Trials@uspto.gov
571-272-7822

Paper 10
Date: October 31, 2022

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

ROKU, INC.,
Petitioner,

v.

FLEXIWORLD TECHNOLOGIES, INC.,
Patent Owner.

IPR2022-01112 (Patent 10,140,073 B2)
IPR2022-01113 (Patent 9,042,811 B2)
IPR2022-01114 (Patent 9,965,233 B2)[1]

Before DAVID C. MCKONE, TERRENCE W. McMILLIN, and CHRISTOPHER L. OGDEN, *Administrative Patent Judges*.

OGDEN, *Administrative Patent Judge*.

DECISION
Settlement Prior to Institution of Trial
37 C.F.R. § 42.74

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[1] This Order addresses the same issue for the above-identified proceedings. Therefore, we exercise our discretion to issue one order to be filed in each proceeding. The parties, however, are not authorized to use this style heading in any subsequent papers.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Petitioner Roku, Inc. and Patent Owner Flexiworld Technologies, Inc. jointly request that the above-referenced *inter partes* review proceeding be terminated pursuant to the parties' agreement. On October 27, 2022, with our authorization, the parties filed a Joint Motion to Terminate (Paper 8), a copy of a Settlement and Patent License Agreement (Ex. 2001), and a Joint Request to Keep Separate (Paper 9).[2]

In the Motion to Terminate, the parties make the following representations: (1) that "the parties have settled their entire dispute concerning the [subject] patent[s] and the Board has not yet decided the merits of th[ese] proceeding[s]"; (2) that the parties are "filing true copies of their Agreement in connection with th[ese] matter[s] as required by statute"; and (3) that "there are no other agreements or understandings, oral or written, between [the parties], including any collateral agreements, made in connection with, or in contemplation of, the termination of th[ese] proceeding[s] as set forth in 35 U.S.C. § 317(b)" Paper 8, 1, 4.

"The Board expects that a proceeding will terminate after the filing of a settlement agreement, unless the Board has already decided the merits of the proceeding." Patent Trial and Appeal Board Consolidated Trial Practice Guide 86 (PTAB Nov. 19), https://go.usa.gov/xpvPF. We have not yet determined whether to institute trial in these proceedings. Under these

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[2] For convenience, we refer to the documents filed in IPR2022-01112, though nearly identical documents were filed with the same paper and exhibit numbers in IPR2022-01113 and IPR2022-01114.

circumstances, we determine that it is appropriate to terminate these proceedings.

Regarding the joint Request to Keep Separate (Paper 9), we have reviewed the Settlement and Patent License Agreement (Ex. 2001) and find that it contains confidential business information regarding the terms of the parties' agreement. We determine that good cause exists to treat the Settlement and Patent License Agreement as business confidential information pursuant to 37 C.F.R. § 42.74(c).

ORDER

Accordingly, it is

ORDERED that the joint Requests to Keep Separate (Papers 9) are *granted*, and that the settlement agreements (Exhibits 2001) be treated as business confidential information and be kept separate from the files of the above-identified proceedings and from the files of the above-identified patents under the provisions of 37 C.F.R. § 42.74(c);

FURTHER ORDERED that the Joint Motions to Terminate (Papers 8) the above-identified proceedings are *granted*; and

FURTHER ORDERED that these proceedings are *terminated* with respect to both Petitioner and Patent Owner.

IPR2022-01112 (Patent 10,140,073 B2)
IPR2022-01113 (Patent 9,042,811 B2)
IPR2022-01114 (Patent 9,965,233 B2)

PETITIONER:

Patrick McKeever
Miguel Bombach
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Helen Zhang
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mckeever-ptab@perkinscoie.com
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PATENT OWNER:

Brent Bumgardner
Charles Austin Ginnings
NELSON BUMGARDNER CONROY P.C.
brent@nelbum.com
austin@nelbum.com

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
09/992,413	11/18/2001	William Ho Chang	FLEX.0019

CONFIRMATION NO. 5528

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

POWER OF ATTORNEY NOTICE

OC000000136679972

Date Mailed: 10/26/2022

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/20/2022.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/sltorres/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
09/992,413	11/18/2001	William Ho Chang	FLEX.0019

CONFIRMATION NO. 5528

152
CHERNOFF, VILHAUER, MCCLUNG & STENZEL, LLP
111 SW Columbia Street
Suite 725
PORTLAND, OR 97201

POA ACCEPTANCE LETTER

OC000000136679985

Date Mailed: 10/26/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/20/2022.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/sltorres/

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	09/992,413
Filing Date	November 18, 2001
First Named Inventor	William Ho CHANG
Title	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
Art Unit	2458
Examiner Name	Esther Benoit HENDERSON
Attorney Docket Number	FLEX.0019

SIGNATURE of Applicant or Patent Practitioner

Signature	/Peter D. Sabido/	Date (Optional)	2022-10-20
Name	Peter D. SABIDO	Registration Number	50353
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 00152

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 00152

OR

☐	Firm or Individual Name		
	Address		
	City	State	Zip
	Country		
	Telephone	Email	

Assignee Name and Address: Flexiworld Technologies, Inc.
PMB 267
3439 NE Sandy Blvd.
Portland, OR 97232
United States of America

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	DocuSigned by: William Chang 5EC68DA7C1FC41E...	Date	9/18/2018 1:04:38 AM PDT
Name	William Ho Chang	Telephone	
Title	President and CTO, Flexiworld Technologies Inc.		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
09/992,413	**10/20/2022 04:58:16 PM ET**	**FXT312**

Title of Invention

DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	9965233
CONFIRMATION #	5528	FILED BY	Theresa Allen
PATENT CENTER #	61089125	FILING DATE	11/18/2001
CUSTOMER #	–	FIRST NAMED INVENTOR	William Ho Chang
CORRESPONDENCE ADDRESS	EDWARD B. ANDERSON, KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING, 520 S.W. YAMHILL STREET PORTLAND, OREGON 97204 UNITED STATES	AUTHORIZED BY	Peter Sabido

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
FLEX-0019_POA_Trans_and_POA_eSigned_10-20-22.pdf	2	Power of Attorney	229 KB
FLEX-0019_Stmt_Under_373c_eSigned_10-20-22.pdf	3	Assignee showing of ownership per 37 CFR 3.73	110 KB

Digest

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

DOCUMENT	MESSAGE DIGEST(SHA-512)
FLEX-0019_POA_Trans_and_POA_eSigned_10-20-22.pdf	F27412BD7BBA63152500A1623F90C9F00D97C073BBB7A53173 24CEC9E639F1483DD55D40AF9BCFF485900EA0D407226F9EC E5C33829A56EEE8C86D7A12636CD0
FLEX-0019_Stmt_Under_373c_eSigned_10-20-22.pdf	7D6C4895449B46466F72A9F32200EB8E7D18A4DB01S2559A40 B10689BE8692D944DC49501D82C553E066CD0E135D47E29FE 4E2D0EA0BE3F58CCCB01A7BD9B137

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/AIA/96 (08-12)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: William Ho CHANG

Application No./Patent No.: 9,965,233 Filed/Issue Date: May 8, 2018

Titled: DIGITAL CONTENT SERVICES OR SECURE SYSTEMS FOR THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES

Flexiworld Technologies, Inc., a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 012325, Frame 0362, or for which a copy thereof is attached.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

   1. From: _____ To: _____

      The document was recorded in the United States Patent and Trademark Office at

      Reel _____, Frame _____, or for which a copy thereof is attached.

   2. From: _____ To: _____

      The document was recorded in the United States Patent and Trademark Office at

      Reel _____, Frame _____, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/96 (08-12)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Peter D. Sabido/	2022-10-20
Signature	Date
Peter D. SABIDO	50353
Printed or Typed Name	Title or Registration Number

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Texas on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT Eastern District of Texas
PLAINTIFF FLEXIWORLD TECHNOLOGIES, INC.,		DEFENDANT HISENSE CO., LTD., et al.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	8,169,649	5/1/2012	Flexiworld Technologies, Inc.
2	9,069,510	6/30/2015	Flexiworld Technologies, Inc.
3	9,836,259	12/5/2017	Flexiworld Technologies, Inc.
4	9,965,233	5/8/2018	Flexiworld Technologies, Inc.
5	10,037,178	7/31/2018	Flexiworld Technologies, Inc.

In the above entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

AO 120 (Rev. 08/10)

TO:	Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Eastern District of Kentucky on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
5:22-cv-110-DCR	4/29/2022	Eastern District of Kentucky

PLAINTIFF	DEFENDANT
Flexiworld Technologies, Inc..,	Lexmark International, Inc.

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9,965,233	5/8/2018	Flexiworld Technologies, Inc.,
2	10,642,576	5/5/2020	Flexiworld Technologies, Inc.,
3	10,846,031	11/24/2020	Flexiworld Technologies, Inc.,
4	RE42725	9/20/2011	Flexiworld Technologies, Inc.
5			

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

AO 120 (Rev. 08/10)

TO:	Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Western District of Tennessee on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT Western District of Tennessee
PLAINTIFF Flexiworld Technologies, Inc..,		DEFENDANT Brother Industries (U.S.A.), Inc.,

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9,965,233	5/8/2018	Flexiworld Technologies, Inc.,
2	10,642,676	5/5/2020	Flexiworld Technologies, Inc.,
3	10,846,031	7/31/2018	Flexiworld Technologies, Inc.,
4	RE42725	9/20/2011	Flexiworld Technologies, Inc.
5			

In the above entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	05/08/2018	9965233	FXT312	5528

7590 04/18/2018

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 1379 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

7590 04/04/2018

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	

ART UNIT	PAPER NUMBER
2458	

MAIL DATE	DELIVERY MODE
04/04/2018	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Corrected Notice of Allowability	**Application No.** 09/992,413	**Applicant(s)** CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	**Art Unit** 2458	**AIA (First Inventor to File) Status** No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *3/19/2018*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/19/2018
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2458

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: March 19, 2018

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER ALLOWANCE

This Amendment is submitted in response to the Notice of Allowance dated December 18, 2017. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 3
Amendments to the Drawings	None
Remarks	Begin on page 30

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6091956		2000-07-18	Hollenberg	
	2	6366682		2002-04-02	Hoffman et al.	
	3	6873836		2005-03-29	Sorrells et al.	
	4	6904527		2005-06-07	Parlour et al.	
	5	7095854		2006-08-22	Ginter et al.	
	6	7451195		2008-11-11	Seligmann	
	7	8706627		2014-04-22	Shore	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20180011667		2018-01-11	Chang et al.	
	2	20180024790		2018-01-25	Chang et al.	
	3	20180024791		2018-01-25	Chang et al.	
	4	20180039456		2018-02-08	Chang et al.	
	5	20180039459		2018-02-08	Chang et al.	
	6	20180041482		2018-02-08	Chang et al.	
	7	20180046418		2018-02-15	Chang et al.	
	8	20010055492		2001-12-27	Wood et al.	
	9	20030028481		2003-02-06	Flitcroft et al.	

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Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 15/785,190, February 23, 2018, 72 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/ESTHER B HENDERSON/ (04/02/2018)	Date Considered	04/02/2018

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
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Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2018-03-19
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (03-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	9	20030028481		2003-02-06	Flitcroft et al.	

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	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 15/785,190, February 23, 2018, 72 pages.	

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2018-03-19
Name/Print	Peter D. Sabido	Registration Number	50353

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	960	960

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Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	240	240
		Total in USD ($)		**1200**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	32097445
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	19-MAR-2018
Filing Date:	18-NOV-2001
Time Stamp:	19:25:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1200

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Lexmark v. Flexiworld

RAM confirmation Number	032018INTEFSW19254100
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Warnings:					
Information:					
2	Amendment after Notice of Allowance (Rule 312)	20180319_Amendment_After_Allowance_FXT312.pdf	208659 3266aa25c15af78d0ec0f4e039feda833dc0f2e	no	31
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20180319_IDS_FXT312.pdf	1035583 096f3a6df83d96477072833695109 1d06a0c9d0	no	5
Warnings:					
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4	Non Patent Literature	NPL1_20180223_NOA.pdf	2782117 cf79389fda3252e51aac504fe11e4d12dac9270d	no	72
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Lexmark v. Flexiworld

PART B - FEE(S) TRANSMITTAL

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I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on March 19, 2018.

Depositor's Signature: /Heidi Dutro/

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	03/19/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2458	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
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1 Kolisch Hartwell, P.C.
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Flexiworld Technologies, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Vancouver, Washington

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual X Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- X Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- X Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Peter D. Sabido/ Date March 19, 2018

Typed or printed name Peter D. Sabido Registration No. 50353

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: March 19, 2018

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.	:	5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AFTER ALLOWANCE

This Amendment is submitted in response to the Notice of Allowance dated December 18, 2017. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 3
Amendments to the Drawings	None
Remarks	Begin on page 30

Amendments to the Specification

Please make the amendments below to the specification. Material to be inserted is in underline, and material to be deleted is in ~~strikeout~~.

Please amend the current abstract as shown below.

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content to information apparatus or output devices are herein disclosed and enabled. The protected digital content is encrypted and device dependent or specific for rendering at a limited number of devices including smart phones, information pads, audio players, media controllers, televisions, printers etc. To illustrate, an information apparatus may include an application for accessing selected digital content from a subscribed content service or store over the Internet. To access digital content, a client application may send, to the content service or store, authentication information, payment or subscription information, and/or a reference to selected digital content. The service then generates encrypted device dependent output data associated with a device or identification previously registered with the service for transmitting or streaming, to the information apparatus or output devices (e.g., televisions, speakers, media controllers), the digital content for rendering.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus or **a** device for rendering, the digital content service including:

one or more servers for providing **the digital content** **[[,]]** to the information apparatus or **to the** device, ~~the digital content,~~ the one or more servers being distinct and separate from the information apparatus **[[**and**]]** **or** the device, and

one or more server applications executable at the one or more servers for managing at least part of the digital content service, the digital content service method comprising:

receiving, from the information apparatus or the device and by the one or more servers, security or authentication information associated with a user operating the information apparatus or the device for authentication of the user, and **[[,]]** in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus or the device and by the one or more servers, payment or subscription information associated with the user for accessing one or more digital content that are available at the one or more servers operated, at least in part, by the digital content service;

receiving, at the one or more servers, a device object from the information apparatus or the device over the network that includes the Internet, the device object including device information related to one or more devices, and the device information corresponding to at least one of device identification information, device address information, device capability information, model information, brand information, or

registration information, individually or in any combination, and the one or more devices include the information apparatus or the device;

providing, to the information apparatus or the device and by the one or more servers, one or more pointers or references to at least part of the one or more digital content available at the one or more servers for selection by the user at the information apparatus or the device;

receiving, at the one or more servers and from the information apparatus or the device, at least a pointer or reference to selected digital content from among the one or more pointers or references provided, by the one or more servers, to the information apparatus or the device;

retrieving, by the one or more server applications, at least part of the selected digital content from the one or more servers employing, at least in part, the pointer or reference to the selected digital content received from the information apparatus or the device;

generating output data, at the one or more servers using the one or more server applications, the output data being related to at least part of the selected digital content, and the generating of the output data including:

applying, by the one or more server applications, an encoding operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of at least part of the selected digital content, and wherein, subsequent to applying the encoding operation and the encryption scheme on at least part of the selected digital content, the selected digital content is, at least in part, device dependent for rendering at the one or more devices; and

transmitting, by the one or more servers, at least part of the generated output data to the information apparatus or the device for rendering at least part of the selected digital content at the one or more devices; and

wherein the generated output data is, at least in part, device dependent to the one or more devices, and the generated output data having a relationship, at least in part, to the device information included in the device object and received by the one or

more servers from the information apparatus or the device over the network that includes the Internet, and wherein the transmitting of at least part of the generated output data by the one or more servers to the information apparatus or the device is subsequent to having received the security or authentication information associated with the user operating the information apparatus or the device, and the transmitting of at least part of the generated output data is based, at least in part, on having received, from the information apparatus or the device, the payment or subscription information.

132. (Currently Amended) The method of claim 131 further comprising **[[,]]:**

providing, by a client application at the information apparatus or the device and over a graphical user interface at a display screen of the information apparatus or the device, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application at the information apparatus or the device, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content that are available at the one or more servers; and

obtaining, by the client application at the information apparatus or the device, a content object that includes a pointer or reference to the selected digital content from among the one or more pointers or references.

133. (Previously presented) The method of claim 131 wherein the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination; and wherein the digital content service includes an audio digital content service or a video digital content service, individually or in any combination.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the output data.

135. (Previously presented) The method of claim 133 in which the one or more devices include an output device, the output device is at least one of a television, an

output controller wire connectable with a television, an audio output device, a sound output device, a music output device, or a projection device, individually or in any combination, and wherein the output device is wire connectable or wire connected to the information apparatus or the device.

136. (Previously presented) The method of claim 132, further comprising:

receiving, by the client application at the information apparatus or the device, at least part of the output data from the one or more servers; and

decoding, by the client application at the information apparatus or the device, at least part of the output data received from the one or more servers for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information was previously received from the user by the digital content service, and the payment or subscription information is provided automatically when the digital content service is accessed by the information apparatus or the device.

139. (Previously presented) The method of claim 131 in which the information apparatus or the device are part of an output system for receiving the output data for rendering at the one or more devices, the one or more devices include at least one of a television, a projector, a display screen, a printer, or an audio output device, individually or in any combination; and wherein the one or more devices are either:

(a) part of the output system for rendering or playing at least part of the selected digital content at the one or more devices; or

(b) connectable, by one or more wire or wireless connections, to the information apparatus or the device for rendering or playing at least part of the selected digital

content at the one or more devices.

140. (Previously presented) The method of claim 138 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Previously presented) The method of claim 134 wherein the generated output data, corresponding to at least part of the selected digital content, is at least in part device dependent for rendering or output or playing at the one or more devices that include the information apparatus or the device, and at least part of the selected digital content includes an encryption scheme for ensuring security of the selected digital content, and wherein the method further comprises:

decoding, by the client application at the information apparatus or at the device, at least part of the selected digital content, using, at least in part, the output data received from the one or more servers; and

rendering, by the client application at the information apparatus or at the device, at least part of the selected digital content that has been decoded.

142. (Previously presented) The method of claim 137 in which at least one device of the one or more devices is an output device, and the output device includes at least one of a display device, a television, a printer, an audio output device, a speaker, or a music output device, individually or in any combination, and wherein the output device is wirelessly connected or connectable to the information apparatus or the device.

143. (Previously presented) The method of claim 131 wherein the one or more devices include one or more output devices, and subsequent to having received the device object by the one or more servers from the information apparatus or the device, the method further comprises receiving, from the information apparatus and by the one

or more servers, a selected output device from among the one or more output devices; and the generated output data is device dependent for rendering at the selected output device; and wherein the selected output device includes an audio output device, a display device, a television, or a printer.

144. (Previously presented) The method of claim 133 in which the device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the output data includes audio data;

(2) a display device or a projection device and wherein the output data includes video data; or

(3) a television and wherein the output data includes audio data and video data.

145. (Previously presented) The method of claim 133 wherein the information apparatus or the device further includes a client application that is installable at the information apparatus or the device, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data corresponding to at least part of the selected digital content.

146. (Previously presented) The method of claim 145 in which the device or the information apparatus decodes and decompresses, using the client application, at least part of the output data that is, at least in part, device dependent to the device or the information apparatus, for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, or involving one or more applications.

148. (Previously presented) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon or function control, and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein execution of at least part of the client application by the processor at the information apparatus configures the information apparatus for:

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

delivering, from the information apparatus, one or more device objects to the one or more servers over a network, the one or more device objects related to one or more devices, the one or more devices for outputting or playing digital content that are received from the digital content service, and the one or more devices being distinct and separate devices from the one or more servers, and the one or more device objects including information related to at least one of device identification information, device address information, device capability information, model information, brand information, registration information, or IP address information, individually or in any combination, related to the one or more devices;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, via the graphical user interface over the touch sensitive screen of the information apparatus, information associated with selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus to the one or more servers, at least a pointer or reference to the selected digital content;

receiving, at the information apparatus and from the one or more servers, output data corresponding to at least part of the selected digital content, the output data is related, at least in part, to the information included in the one or more device objects delivered from the information apparatus to the one or more servers, and the output data, corresponding to at least part of the selected digital content, is at least in part device dependent with respect to the one or more devices for output or playing at least part of the selected digital content; and

wherein the receiving of the output data is subsequent to having sent, from the information apparatus to the one or more servers, the security or authentication information associated with the user, and the receiving of the output data is further subsequent to having sent, from the information apparatus to the one or more servers, the payment or subscription information.

149. (Previously presented) The apparatus of claim 148 wherein the one or more devices include at least the information apparatus, and the information apparatus is further operable for:

decoding, at the information apparatus, at least part of the output data received from the one or more servers for rendering or outputting or playing of at least part of the selected digital content; and

rendering or outputting or playing at least part of the selected digital content corresponding to the decoded output data that is device dependent for rendering at the one or more devices.

150. (Previously presented) The apparatus of claim 149 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless

network, or a wide area network, individually or in any combination.

151. (Currently amended) The apparatus of claim 150 further comprising transmitting at least part of the received output data or the decoded output data from the information apparatus to an output device ~~or device~~ for rendering, the output device ~~or device~~ including one or more of a printing device, a display device, a projection device, a television device, an audio output device, a speaker, or an output controller wire connected to a television, individually or in any combination.

152. (Currently amended) The apparatus of claim 151 wherein the information apparatus is further operable for discovering an output device ~~or device~~ as being available for rendering at least part of the selected digital content; and wherein **the** one or more device objects are related to the one or more ~~output~~ devices and include the **[[**or**]]** **output** device, and the output device ~~or device~~ is a distinct device from the information apparatus.

153. (Currently amended) The apparatus of claim 152 in which the information apparatus further includes one or more wireless communication units, and communication between the information apparatus and the one or more servers over the network includes wireless transmission of data over the one or more wireless communication units included in the information apparatus; and wherein the information apparatus is further operable for delivering, from the information apparatus to the one or more servers, an object that includes information related to the discovered output device ~~or device~~; and wherein at least part of the output data received from the one or more servers is device dependent for rendering at the ~~selected~~ **discovered output** device.

154. (Previously presented) The apparatus of claim 153 wherein the client application of the information apparatus further configures the information apparatus for:

providing, by the client application over the graphical user interface on the touch sensitive screen of the information apparatus, the one or more pointers or references to

digital content for selection;

receiving, by the client application, selected digital content, over the graphical user interface on the touch sensitive screen of the information apparatus, from among the one or more pointers or references to digital content received from the one or more servers; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application; and

delivering, by the client application, the generated content object from the information apparatus to the one or more servers.

155. (Previously presented) The apparatus of claim 154 in which the selected digital content is obtained, by the one or more servers, from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 153 in which the information apparatus is embodied to be at least one of a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, an audio output device, a speaker, or a digital camera, individually or in any combination.

157. (Previously presented) A method for accessing digital content, by an apparatus over a network that includes the Internet, the apparatus including a communication unit, one or more processors, an operating system, and one or more client applications facilitated by the operating system and executable by the one or more processors for providing one or more functionalities of the apparatus, the method comprising:

establishing, using the communication unit, a connection between the apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the apparatus, and the one or more servers operated, at least partly, by a digital content service that is accessible, at least in part, by the apparatus over the Internet; and subsequent to establishing, using the

communication unit, the connection between the apparatus and the one or more servers, the method further comprises:

receiving, at the apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the apparatus from the digital content service;

delivering, from the apparatus to the one or more servers, at least a pointer or reference to selected digital content, the pointer or the reference to the selected digital content being related to a selection by the user, at the apparatus, from among the one or more pointers or references to the digital content accessible by the apparatus from the digital content service, the one or more pointers or references provided, at least in part, to the apparatus by the one or more servers;

delivering, from the apparatus, one or more device objects to the one or more servers, the one or more device objects including information corresponding to one or more devices that are distinct and separate devices from the one or more servers, and the information including at least one of device identification information, device address information, device capability information, model information, brand information, or registration information, individually or in any combination, related to the one or more devices;

sending, from the apparatus to the one or more servers over the network, security or authentication information associated with a user operating the apparatus, and, in dependence of a successful authentication of the user, enabling the user access to the digital content service; and

receiving, at the apparatus, from the one or more servers operated, at least partly, by the digital content service, output data, the output data corresponding to the selected digital content and having a relationship, at least in part, to the one or more device objects delivered from the apparatus to the one or more servers over the network that includes the Internet, and the output data corresponding to the selected digital content further including an encryption scheme for ensuring security of the selected digital content for rendering at the one or more devices, and at least part of the output data is device dependent for rendering at least part of the selected digital content at the one or more devices.

158. (Previously presented) The method of claim 157 further comprising:

establishing a communication connection between the apparatus and an output device that is at least one of a television, an output controller connected to a television, an audio output device, or a speaker, individually or in any combination; and

transmitting, by the apparatus, at least part of the selected digital content over the communication connection for rendering at least part of the selected digital content at the output device.

159. (Currently amended) The method of claim 157 in which the apparatus is embodied to be at least one of ~~a desktop computer, a laptop computer,~~ a smart phone, a screen phone, an Internet pad, an Internet appliance, a speaker, an audio output device, a display device, or a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending a payment or subscription information from the apparatus to the one or more servers over the network as payment or subscription for accessing the digital content service, and, subsequent to having sent the payment or subscription information to the one or more servers, the apparatus receives the output data corresponding, at least in part, to the selected digital content from the one or more servers operated, at least partly, by the digital content service.

161. (Currently amended) The method of claim 160 in which the apparatus includes ~~an output device that is~~ a display screen or a speaker for rendering or outputting at least part of the selected digital content received from the one or more servers, and wherein the output data is at least in part device dependent for rendering at the one or more devices that include the apparatus, and wherein delivering of the one or more device objects from the apparatus to the one or more servers is for authorizing the one or more devices for rendering the selected digital content.

162. (Currently amended) The method of claim 157 wherein the method further

comprises delivering, from the apparatus, one or more content objects to the one or more servers, the one or more content objects include digital content for storing at the one or more servers, and wherein, subsequent to storing the digital content at the one or more servers, the method further comprises receiving, at the apparatus, output data related, at least part, to the digital content stored at the one or more servers, the received digital content being previously delivered by the apparatus for storing by the apparatus at the one or more servers, and the received digital content that was previously stored by the apparatus not including **[[**the**]]** **an** encryption scheme applied to the selected digital content.

163. (Currently amended) The method of claim 157 in which the apparatus is part of an output system that includes ~~a television~~ **an audio output device** or a speaker, individually or in any combination, and at least part of the output system is operable for accessing the digital content service over the Internet, and wherein the apparatus further includes a voice activated command interface for interacting with the user for accessing at least part of the selected digital content from the digital content service; and wherein the selected digital content includes, at least in part, video digital content or audio digital content, individually or in any combination.

164. (Previously presented) The method of claim 157 in which the apparatus is wired or wirelessly connected to a television for rendering at least part of the selected digital content at the television, and the method further comprises decoding at least part of the output data corresponding to at least part of the selected digital content at the apparatus for rendering at the television; and wherein the selected digital content includes, at least in part, video digital content or audio digital content, individually or in any combination.

165. (Currently amended) The method of claim 157 in which the **communication unit of the** apparatus includes a communication interface and the method further comprises the apparatus establishing a wired or wireless connection, via the communication interface, with a device that includes at least one of a printer, a display

Lexmark, Exhibit 1003
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device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the selected digital content over the wired or wireless connection for rendering at the device.

166. (Previously presented) The method of claim 157, further comprising decoding or decompressing at least part of the output data corresponding to at least part of the selected digital content at the apparatus for rendering, and wherein the encryption scheme included with the output data corresponding to the selected digital content includes security keys for ensuring security of the selected digital content.

167. (Currently amended) A system for accessing a digital content service over a network and for receiving output data from one or more servers over the network for rendering, the one or more servers being distinct and separate devices from the system, and the one or more servers operated, at least partly, by the digital content service, the received output data corresponding to at least part of digital content that is acceptable for rendering at the system, the system comprising:

a processor;

a device that is at least one of a display device, or a projection device, or an audio output device, for rendering **or outputting** at least part of the output data;

an operating system;

a client application having an interface for interacting with a user of the system, the client application **executable by the processor and** facilitated, at least partly, by the operating system included in the system, [[;]]

wherein the system is configured for:

establishing a communication channel between the system and the one or more servers over the network for accessing the digital content service;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in a content server, the content server operated, at least partly, by the digital content service~~, for selection by the user~~;

providing, by the client application and via the interface, the one or more pointers

or references to the one or more digital content for selection by the user;

receiving, at the system via the interface, selected digital content from among the one or more pointers or references to the one or more digital content provided for selection, the selected digital content includes at least one of video digital content or audio digital content, individually or in any combination;

delivering, from the system, at least part of a content object to the one or more servers over the network, the content object including at least a pointer or reference to the selected digital content;

delivering, by the system, at least part of an object to the one or more servers over the network, the object including information related to at least part of the system;

sending, from the system to the one or more servers over the network, security or authentication information associated with the user of the system for authentication of the user for accessing the digital content service;

sending, from the system to the one or more servers, payment or subscription information for accessing the digital content service;

receiving, at the system, the output data from the one or more servers, the output data corresponding to at least part of the selected digital content, and the output data corresponding, at least in part, to the content object delivered from the system to the one or more servers, and the output data having a relationship, at least in part, to the information included in the object delivered from the system to the one or more servers over the network, and the output data further including an encryption scheme for ensuring security of the selected digital content that is at least in part device dependent to the system and is acceptable for rendering by the system, and at least part of the output data is device dependent for rendering by the system;

decoding at least part of the received output data, at the system, for rendering at least part of the selected digital content by the system; and

subsequent to having decoded at least part of the output data, the system is further configured for:

rendering **or outputting**, using the device that includes at least one of a display device, or a projection device, or an audio output device, at least part of the decoded output data corresponding to at least part of the selected digital content.

168. (Previously presented) The system of claim 167 in which the object includes at least one of a device identification information, or a registration information, or an address information, individually or in any combination, related to the system, and the system is further configured for obtaining the object for delivering to the one or more servers, the obtaining of the object includes obtaining information from at least one of the following: (1) user input, (2) processing a device identification information at the system, (3) obtaining information from one or more devices that are distinct and separate devices from the system, (4) retrieving a parameter stored in the system, or (5) a default parameter or preference associated with the system, individually or in any combination.

169. (Previously presented) The system of claim 167 wherein the system is embodied to be at least one of a television system, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance, a speaker, an audio output device, a display device, or a digital camera, individually or in any combination.

170. (Previously presented) The system of claim 167 in which the system is embodied, at least in part, as an information apparatus, and the device is at least a speaker included in the information apparatus, and the device and the information apparatus are wire connected, and wherein the interface of the system includes a voice activated command interface for interacting with the user.

171. (Previously presented) The system of claim 170 wherein the encryption scheme for ensuring security of the selected digital content includes security keys, and the system further enables operations for processing, at the system, the output data into a form, format, or language more suitable for rendering at the device, the processing including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system, over a network that includes the Internet, digital content that is acceptable for rendering at the output system, the output system including one or more devices, the digital content service system comprising:

one or more servers that are distinct and separate from the output system;

one or more processors included in the one or more servers;

one or more server applications executable, at least partly, by the one or more processors at the one or more servers to facilitate operations of the one or more servers;

memory or one or more storage ~~units~~ **devices** at the one or more servers configured to store at least part of the one or more server applications; wherein execution of the one or more server applications by the one or more processors causes the one or more servers to:

receive, by the one or more servers and from the output system, security or authentication information associated with a user for authenticating the user to access the digital content service system, and, in dependence of a successful authentication, the one or more servers is further operable to:

receive, by the one or more servers and from the output system, device information relating to at least part of the output system that includes **the** one or more devices;

receive, by the one or more servers and from the output system, a content object, the content object including at least a pointer or reference to selected digital content, the selected digital content being related to a selection by the user from among one or more pointers or references to available digital content from the digital content service system, the one or more pointers or references provided, at least in part, to the output system by the one or more servers;

receive, by the one or more servers and from the output system, payment or subscription information to enable transmitting at least part of the selected digital content to the output system;

generating, by the one or more server applications, output data related, at least partly, to the selected digital content, the generating of the output data being after the

one or more servers received the content object from the output system, and the generating of the output data being after the one or more servers received at least part of the payment or subscription information from the output system, and at least part of the generated output data has a relationship, at least in part, to the device information relating to the output system received by the one or more servers, and at least part of the generated output data includes (1) an encoding operation applied on at least part of the selected digital content, and (2) an encryption scheme associated with one or more security keys applied on at least part of the selected digital content for ensuring security of the selected digital content; and

wherein the generated output data related, at least partly, to the selected digital content, is device dependent for rendering at the output system that includes **the** one or more devices, and at least part of the output data is for transmitting to the output system, and

wherein the generated output data, related, at least partly, to the selected digital content, is acceptable for rendering at least part of the selected digital content at the output system that includes **the** one or more devices, and the selected digital content includes at least one of audio digital content or video digital content, individually or in any combination.

173. (Currently amended) The system of claim 172 wherein the output system includes a client application, and the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data that is at least in part device dependent for rendering at the output system, and the client application is further operable for decoding at least part of the output data received from the one or more servers for rendering at least part of the selected digital content at the output system that includes **the** one or more devices.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device or speaker and the output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system includes one or more devices for rendering at least part of the selected digital content, and the one or more devices includes at least one of a television, an output controller connectable to a television, a display device, a speaker, or an audio output device, individually or in any combination.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to the selected digital content, and the one or more server applications further retrieve, using the pointer or reference to the selected digital content, at least part of the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device at a server system, containing one or more server applications executable by one or more processors at one or more servers in the server system for transmitting device dependent output data acceptable for rendering at an output system, the output system including one or more devices, and the server system including one or more servers that are accessible by the one or more devices over a network that includes the Internet, the server system being distinct and separate from the one or more devices of the output system, the one or more server applications in the computer memory or storage device, when executed by the one or more processors at the one or more servers, configures the server system to:

receive, by the server system from the output system, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system, the ~~selection from among~~ one or more pointers or references **to digital content are related** to available digital content at the server system**, and the available digital content** ~~there~~ are provided, at least in part, to the output system by the server system;

receive, by the server system from the output system, one or more objects, the one or more objects having information related to the output system that includes the

one or more devices;

receive, by the server system and from the output system, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system;

generate, by the server system, output data associated with at least part of the digital content, the output data having a relationship, at least in part, to the information included in the one or more objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital content for transmitting the output data that is associated with at least part of the digital content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content for rendering at the output system; and

transmit, by the server system to the output system over the network that includes the Internet, at least part of the output data that is associated with at least part of the digital content, **and the at least part of the output data includes** the encryption scheme **[[**is**]]** applied to at least part of the digital content, and wherein the transmitting of at least part of the output data is after the server system receives, from the output system, at least (i) the security or authentication information, (ii) the one or more content objects, and (iii) the one or more objects from the output system; and

wherein the one or more devices of the output system include at least an information apparatus, and at least part of the transmitted output data being device dependent for rendering at least part of the digital content at the output system that includes the one or more devices.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Previously presented) The memory or storage device of claim 178 in which the information apparatus included in the output system includes a display screen or a speaker for rendering digital content, and the information apparatus further renders at least part of the output data at the display screen or at the speaker of the information apparatus.

180. (Currently amended) In a non-transitory computer memory or storage device at one or more servers or at an information apparatus, containing client software configured to be executable, at least partly, by one or more processors at the information apparatus for obtaining digital content from a digital content service operated, at least partly, over the Internet, the digital content obtained from the digital content service being encoded, at least partly, with an encryption scheme that is acceptable for rendering at one or more devices, the one or more devices includes the information apparatus,

the information apparatus including:

memory **or storage device** for storing at least part of the client software,

a display screen or a speaker, individually or in any combination, and

a user interface for interacting with a user,

the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the digital content for rendering at the one or more devices,

wherein the client software, facilitated by the operating system, is executable, at least partly, by the one or more processors at the information apparatus to perform a method at the information apparatus, the method comprising:

establishing a communication channel between the information apparatus and the one or more servers over a network that includes the Internet, the one or more servers being distinct and separate devices from the information apparatus and the one or more devices, and the one or more servers is operated, at least partly, by the digital content service; and

sending, from the information apparatus to the one or more servers over the network that includes the Internet, security or authentication information associated with

the user operating the information apparatus for authentication of the user to access the digital content service; and

obtaining, at the information apparatus, one or more device objects related to the one or more devices, the one or more device objects including device information related, at least in part, to at least one of device identification information, device address information, device capability information, model information, brand information, or registration information, individually or in any combination; and

delivering, from the information apparatus, at least part of the one or more device objects to the one or more servers; and

providing, over the user interface at the information apparatus, one or more pointers or references to the digital content that are available from the digital content service for selection by the user of the information apparatus; and

receiving a selected digital content, via the user interface at the information apparatus, from among the one or more pointers or references to the digital content provided over the user interface for selection by the user; and

obtaining, at the information apparatus, a content object that includes a pointer or reference to the selected digital content; and

delivering, from the information apparatus, at least part of the content object to the one or more servers; and

receiving, from the one or more servers and at the information apparatus, output data that is device dependent for rendering at the one or more devices, the output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the device information included in the one or more device objects delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the received output data further including an encryption scheme applied on at least part of the selected digital content for ensuring security of the selected digital content; and

decoding, at the information apparatus, at least part of the received output data that is at least in part device dependent for rendering at the one or more devices, the output data includes an encryption scheme applied on at least part of the selected digital content; and

rendering at least part of the decoded output data related, at least in part, to the selected digital content at the one or more devices, the one or more devices includes the information apparatus.

181. (Currently amended) The non-transitory computer memory or storage device of claim 180 wherein the client **software** ~~application~~ is facilitated by the operating system for installing the client **software** ~~application~~, at the information apparatus, for expanding the functionalities of the information apparatus; and wherein the method further comprises delivering, from the information apparatus to the one or more servers, an object that includes information related to a selected device for rendering the selected digital content from among the one or more devices; and wherein receiving the output data from the one or more servers is based on having delivered the object, and wherein at least part of the output data is device dependent for rendering at the selected device.

182. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the encryption scheme **of the output data** for ensuring security of the selected digital content includes security keys.

183. (Previously presented) The non-transitory computer memory or storage device of claim 181 in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, a speaker, a controller connectable to a television, or a digital camera, individually or in any combination.

184. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the one or more devices are either a projection device, a display screen, speaker, a controller connectable to a television, or a television, individually or in any combination, and wherein a connection between the information apparatus and the one or more devices ~~includes~~ **include** a wired connection, and wherein the information apparatus further includes a voice activated command interface

for interacting with the user, and the receiving of the selected digital content is via the voice activated command interface; and wherein the selected digital content includes video digital content or audio digital content.

185. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the user interface is a touch sensitive screen interface, and the receiving of the selected digital content is via the touch sensitive screen interface, and at least part of the selected digital content includes one or more of image data, graphics data, audio data, video data, or text data, individually or in any combination, for rendering over the touch sensitive screen or over the speaker of the information apparatus.

186. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the one or more devices include one or more of a display device, a television, a speaker, an audio output device, or an output controller connectable to a television, individually or in any combination, and the selected digital content includes video digital content or audio digital content, individually or in any combination, for rendering at the one or more devices.

187. (Currently amended) The non-transitory computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing **[[a]]** **the** digital content service provided by the one or more servers, and the receiving of the output data for rendering at the one or more devices is subsequent to having sent the payment or subscription information.

188. (Previously presented) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus; and

wherein the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination.

189. (Currently amended) The memory or storage device of claim 177 in which the output system includes a television or a projection device and the information apparatus is either wire or ~~wireless~~ **wirelessly** connected to the television or to the projection device; and wherein the digital content includes at least one of audio digital content or video digital content, individually or in any combination.

190. (Currently amended) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system include at least part of the digital content; and the **one or more** server applications in the computer memory or storage device, when executed by the one or more processors at the server system, further enables the server system to store at least part of the received digital content at a server.

191. (Currently amended) The memory or storage device of claim 177 in which the one or more objects include device identification information, the device identification information including one or more of a device brand, a model, an identification number, a name, an address, a device capability, ~~a name,~~ a path, a registration, or an IP address, individually or in any combination, and the device identification information is related to the output system or to the one or more devices of the output system.

192. (Previously presented) The system of claim 172 in which the device information associated with the output system includes information corresponding to at least one of device identification information, model information, device address information, device capability information, device model information, device brand information, registration information, or IP address information, individually or in any combination, associated with the one or more devices included in the output system.

193. (Previously presented) The system of claim 172 in which the output system includes one or more devices that is acceptable for rendering at least part of the selected digital content, the one or more devices includes an information apparatus that is embodied to be at least one of an e-book, a smart phone, an Internet phone, a speaker, an information pad, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

194. (Previously presented) The system of claim 167 in which the system includes a smart phone for receiving the output data, and the smart phone further enables operations for wirelessly delivering at least part of the selected digital content from the smart phone to an output controller, the output controller is associated with a television or a printer or a speaker for rendering at least part of the selected digital content at the television or at the printer or at the speaker, individually or in any combination.

195. (Previously presented) The system of claim 167 in which the system includes an information apparatus, and the information apparatus is connected to the device over a wireless network connection, a local area network connection, a direct wireless connection, or a wired connection, individually or in any combination.

196. (Previously presented) The system of claim 167 in which the system is at least a controller that is wire connectable to a television using a wire communication interface, the controller is configured to receive the output data from the one or more servers, and the controller is configured to decode at least part of the output data related to at least part of the selected digital content, and the controller is further configured to transmit at least part of the decoded digital content to the television, via the wired communication interface, for rendering at least part of the selected digital content at the television.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the system and the one or more servers includes

one or more of a local area network, a cellular network, a wide area network, or a wireless network, individually or in any combination, and the establishing of the communication channel is subsequent to having sent the security or authentication information from the system to the one or more servers over the network.

198. (Previously presented) The system of claim 197 in which the system includes an information apparatus, and the information apparatus is at least one of a laptop computer, a desktop computer, a smart phone, an Internet pad, an Internet appliance, a speaker, or a digital camera, individually or in any combination, and the information apparatus is configured for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network, and the receiving of at least part of the device dependent output data is based, at least in part, on having sent the payment or subscription information from the system to the one or more servers over the network.

199. (Currently amended) The method of claim 161 in which the communication unit of the apparatus includes **[[a]]** wireless communication **circuitry** ~~unit~~ and the connection between the apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication **circuitry** ~~unit~~ of the apparatus.

REMARKS

This Amendment After Allowance is filed under 37 C.F.R. § 1.312 (Rule 312). A Notice of Allowance was mailed on December 18, 2017 in which claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated December 18, 2017

A Notice of Allowance was mailed on December 18, 2017 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Claims of Application

Applicant has taken the opportunity to review the claims of this application and found some minor typographical error and inconsistencies. Accordingly, Applicant made minor amendments to the claims to improve grammar, consistency, and clarity. Applicant respectfully requests entry of the above claim amendments as shown above.

3. Abstract of Application

Applicant has not made any changes to the Abstract. However, Applicant resubmits the latest abstract as shown above to ensure accurate entry of the title as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or representative of the Applicant, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on March 19, 2018.

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09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	03/19/2018

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 12/18/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	03/19/2018

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2458	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 12/18/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 12/18/2017

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2458	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *11/27/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/22/2017
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2458

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC						
Symbol					Type	Version
G06F		3	/	126	F	2013-01-01
G06F		3	/	1204	I	2013-01-01
G06F		3	/	1247	I	2013-01-01
G06F		3	/	1288	I	2013-01-01
G06F		3	/	1292	I	2013-01-01
G06Q		20	/	102	I	2013-01-01
G06Q		40	/	00	I	2013-01-01
H04L		12	/	2805	I	2013-01-01
H04L		12	/	2809	A	2013-01-01
H04L		12	/	2812	I	2013-01-01
H04L		12	/	2834	A	2013-01-01
H04L		12	/	2838	A	2013-01-01
H04L		2012	/	2849	A	2013-01-01
H04L		2012	/	285	A	2013-01-01
H04L		67	/	16	A	2013-01-01
H04L		67	/	2823	I	2013-01-01
H04L		67	/	303	I	2013-01-01
H04L		67	/	2828	I	2013-01-01
H04L		67	/	04	A	2013-01-01
H04L		67	/	28	I	2013-01-01

CPC Combination Sets								
Symbol					Type	Set	Ranking	Version
			/					
			/					

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	12/15/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20171214

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
709	217	G 0 6 F 15 / 16 (2006.01.01)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	12/15/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20171214

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		28		55		82		109	6	136	33	163	60	190
	2		29		56		83		110	7	137	34	164	61	191
	3		30		57		84		111	8	138	35	165	62	192
	4		31		58		85		112	9	139	36	166	63	193
	5		32		59		86		113	10	140	37	167	64	194
	6		33		60		87		114	11	141	38	168	65	195
	7		34		61		88		115	12	142	39	169	66	196
	8		35		62		89		116	13	143	40	170	67	197
	9		36		63		90		117	14	144	41	171	68	198
	10		37		64		91		118	15	145	42	172	69	199
	11		38		65		92		119	16	146	43	173		
	12		39		66		93		120	17	147	44	174		
	13		40		67		94		121	18	148	45	175		
	14		41		68		95		122	19	149	46	176		
	15		42		69		96		123	20	150	47	177		
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	17		44		71		98		125	22	152	49	179		
	18		45		72		99		126	23	153	50	180		
	19		46		73		100		127	24	154	51	181		
	20		47		74		101		128	25	155	52	182		
	21		48		75		102		129	26	156	53	183		
	22		49		76		103		130	27	157	54	184		
	23		50		77		104	1	131	28	158	55	185		
	24		51		78		105	2	132	29	159	56	186		
	25		52		79		106	3	133	30	160	57	187		
	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	12/15/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20171214

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S237	259	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2 (payment or subscription))	US-PGPUB; USPAT	WITH	ON	2017/12/14 16:33
S238	36	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/12/15 08:42
S239	232	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/12/15 08:46
S240	145	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	US-PGPUB; USPAT	WITH	ON	2017/12/15 08:49
S241	145	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	US-PGPUB; USPAT	WITH	ON	2017/12/15 08:50

12/ 15/ 2017 9:50:44 AM
C:\ Users\ ebenoit\ Documents\ EAST\ Workspaces\ 09992413.wsp

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9798516		2017-10-24	Chang et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20170228202		2017-08-10	Chang et al.	
	2	20170249116		2017-08-31	Chang et al.	
	3	20170286027		2017-10-05	Chang et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

If you wish to add additional Foreign Patent Document citation information please click the Add button [Add]

NON-PATENT LITERATURE DOCUMENTS [Remove]

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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EXAMINER SIGNATURE

Examiner Signature	/ESTHER B HENDERSON/ (12/15/2017)	Date Considered	12/15/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-11-22
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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UNITED STATES DEPARTMENT OF COMMERCE
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 5528

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/992,413	11/18/2001	709	2458	FXT312

APPLICANTS

INVENTORS

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

**** CONTINUING DATA ***************************

This appln claims benefit of 60/252,682 11/20/2000

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** **** SMALL ENTITY **
04/30/2015

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ESTHER B. HENDERSON/ Examiner's Signature	☐ Met after Allowance E.B.H. Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WA	10	65	7

ADDRESS

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

TITLE

DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

FILING FEE RECEIVED		
1031	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No. for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07).

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC- SEARCHED		
Symbol	Date	Examiner
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and (pointer or reference)	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	9/22/2015	EBH
Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH
Update Search	8/17/2017	EBH
Update Search	12/14/2017	EBH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES

Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB
Update Search	2/6/2015	EBH
Update Search	5/28/2015	EBH
Update Search	9/22/2015	EBH
Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH
Update Search	4/29/2017	EBH
Update Search	8/17/2017	EBH
Update Search	12/14/2017	EBH

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH
	See Interference Search History	5/29/2015	EBH
	See Interference Search History	9/22/2015	EBH
	See Interference Search History	2/4/2016	EBH
	See Interference Search History	1/5/2017	EBH
	See Interference Search History	4/29/2017	EBH
	See Interference Search History	8/17/2017	EBH
	See Interference Search History	12/15/2017	EBH

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	12/15/2017
	1	÷	-	-	-	-	-	-	-	-
	2	÷	-	-	-	-	-	-	-	-
	3	÷	-	-	-	-	-	-	-	-
	4	÷	-	-	-	-	-	-	-	-
	5	÷	-	-	-	-	-	-	-	-
	6	÷	-	-	-	-	-	-	-	-
	7	÷	-	-	-	-	-	-	-	-
	8	÷	-	-	-	-	-	-	-	-
	9	÷	-	-	-	-	-	-	-	-
	10	÷	-	-	-	-	-	-	-	-
	11	÷	✓	-	-	-	-	-	-	-
	12	÷	✓	-	-	-	-	-	-	-
	13	÷	✓	-	-	-	-	-	-	-
	14	÷	✓	-	-	-	-	-	-	-
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	16	÷	✓	-	-	-	-	-	-	-
	17	÷	✓	-	-	-	-	-	-	-
	18	÷	✓	-	-	-	-	-	-	-
	19	÷	✓	-	-	-	-	-	-	-
	20	÷	✓	-	-	-	-	-	-	-
	21	÷	✓	-	-	-	-	-	-	-
	22	÷	✓	-	-	-	-	-	-	-
	23	÷	-	-	-	-	-	-	-	-
	24	÷	-	-	-	-	-	-	-	-
	25	÷	-	-	-	-	-	-	-	-
	26	÷	-	-	-	-	-	-	-	-
	27	÷	-	-	-	-	-	-	-	-
	28	÷	-	-	-	-	-	-	-	-
	29	÷	-	-	-	-	-	-	-	-
	30	÷	-	-	-	-	-	-	-	-
	31	÷	-	-	-	-	-	-	-	-
	32	÷	✓	-	-	-	-	-	-	-
	33	÷	✓	-	-	-	-	-	-	-
	34	÷	✓	-	-	-	-	-	-	-
	35	÷	✓	-	-	-	-	-	-	-
	36	÷	✓	-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	12/15/2017
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	40	÷	✓	-	-	-	-	-	-	-
	41	÷	✓	-	-	-	-	-	-	-
	42	÷	✓	-	-	-	-	-	-	-
	43	÷	✓	-	-	-	-	-	-	-
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	45	÷	✓	-	-	-	-	-	-	-
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	51	÷	✓	-	-	-	-	-	-	-
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	66			-	-	-	-	-	-	-
	67			-	-	-	-	-	-	-
	68			-	-	-	-	-	-	-
	69			-	-	-	-	-	-	-
	70			-	-	-	-	-	-	-
	71			-	-	-	-	-	-	-
	72			-	-	-	-	-	-	-

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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	12/15/2017
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	74			-	-	-	-	-	-	-
	75			-	-	-	-	-	-	-
	76			-	-	-	-	-	-	-
	77			-	-	-	-	-	-	-
	78			-	-	-	-	-	-	-
	79			-	-	-	-	-	-	-
	80			-	-	-	-	-	-	-
	81			-	-	-	-	-	-	-
	82			-	-	-	-	-	-	-
	83			-	-	-	-	-	-	-
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	92			-	-	-	-	-	-	-
	93			-	-	-	-	-	-	-
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	95			-	-	-	-	-	-	-
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	97			-	-	-	-	-	-	-
	98			-	-	-	-	-	-	-
	99			-	-	-	-	-	-	-
	100			-	-	-	-	-	-	-
	101			-	-	-	-	-	-	-
	102			-	-	-	-	-	-	-
	103			-	-	-	-	-	-	-
	104			-	-	-	-	-	-	-
	105			-	-	-	-	-	-	-
	106			-	-	-	-	-	-	-
	107			-	-	-	-	-	-	-
	108			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	12/15/2017
	109			-	-	-	-	-	-	-
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	112			-	-	-	-	-	-	-
	113			-	-	-	-	-	-	-
	114			-	-	-	-	-	-	-
	115			-	-	-	-	-	-	-
	116			-	-	-	-	-	-	-
	117			-	-	-	-	-	-	-
	118			-	-	-	-	-	-	-
	119			-	-	-	-	-	-	-
	120			-	-	-	-	-	-	-
	121			-	-	-	-	-	-	-
	122			-	-	-	-	-	-	-
	123			-	-	-	-	-	-	-
	124			-	-	-	-	-	-	-
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	126			-	-	-	-	-	-	-
	127			-	-	-	-	-	-	-
	128			-	-	-	-	-	-	-
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3	133			✓	✓	✓	✓	✓	=	=
4	134			✓	✓	✓	✓	✓	=	=
5	135			✓	✓	✓	✓	✓	=	=
6	136			✓	✓	✓	✓	✓	=	=
7	137			✓	✓	✓	✓	✓	=	=
8	138			✓	✓	✓	✓	✓	=	=
9	139			✓	✓	✓	✓	✓	=	=
10	140			✓	✓	✓	✓	✓	=	=
11	141			✓	✓	✓	✓	✓	=	=
12	142			✓	✓	✓	✓	✓	=	=
13	143			✓	✓	✓	✓	✓	=	=
14	144			✓	✓	✓	✓	✓	=	=

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Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	12/15/2017
15	145			✓	✓	✓	✓	✓	=	=
16	146			✓	✓	✓	✓	✓	=	=
17	147			✓	✓	✓	✓	✓	=	=
18	148			✓	✓	✓	✓	✓	=	=
19	149			✓	✓	✓	✓	✓	=	=
20	150			✓	✓	✓	✓	✓	=	=
21	151			✓	✓	✓	✓	✓	=	=
22	152			✓	✓	✓	✓	✓	=	=
23	153			✓	✓	✓	✓	✓	=	=
24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
27	157			✓	✓	✓	✓	✓	=	=
28	158			✓	✓	✓	✓	✓	=	=
29	159			✓	✓	✓	✓	✓	=	=
30	160			✓	✓	✓	✓	✓	=	=
31	161			✓	✓	✓	✓	✓	=	=
32	162			✓	✓	✓	✓	✓	=	=
33	163			✓	✓	✓	✓	✓	=	=
34	164			✓	✓	✓	✓	✓	=	=
35	165			✓	✓	✓	✓	✓	=	=
36	166			✓	✓	✓	✓	✓	=	=
37	167			✓	✓	✓	✓	✓	=	=
38	168			✓	✓	✓	✓	✓	=	=
39	169			✓	✓	✓	✓	✓	=	=
40	170			✓	✓	✓	✓	✓	=	=
41	171			✓	✓	✓	✓	✓	=	=
42	172			✓	✓	✓	✓	✓	=	=
43	173			✓	✓	✓	✓	✓	=	=
44	174			✓	✓	✓	✓	✓	=	=
45	175			✓	✓	✓	✓	✓	=	=
46	176			✓	✓	✓	✓	✓	=	=
47	177			✓	✓	✓	✓	✓	=	=
48	178			✓	✓	✓	✓	✓	=	=
49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	12/15/2017
51	181			✓	✓	✓	✓	✓	=	=
52	182			✓	✓	✓	✓	✓	=	=
53	183			✓	✓	✓	✓	✓	=	=
54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
61	191			✓	✓	✓	✓	✓	=	=
62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
64	194			✓	✓	✓	✓	✓	=	=
65	195			✓	✓	✓	✓	✓	=	=
66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S242	119	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT	WITH	ON	2017/12/15 08:56
S243	4	((pointer or reference) near (content near object) same (digital near2 content)).clm.	US-PGPUB; USPAT	WITH	ON	2017/12/15 08:56
S244	2	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT	WITH	ON	2017/12/15 08:59
S245	0	((pointer or reference) near (content near object) same (device near dependent)).clm.	US-PGPUB; USPAT	WITH	ON	2017/12/15 09:01
S246	2	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT	WITH	ON	2017/12/15 09:01
S247	3363	((pointer or reference) near (user)).clm.	US-PGPUB; USPAT	WITH	ON	2017/12/15 09:03

12/ 15/ 2017 9:53:09 AM
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PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)		(Column 2)	(Column 3)		
AMENDMENT	11/22/2017	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
	Independent (37 CFR 1.16(h))	* 7	Minus	*** 7	= 0	x $210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

	(Column 1)		(Column 2)	(Column 3)		
AMENDMENT	11/27/2017	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
	Independent (37 CFR 1.16(h))	* 7	Minus	*** 7	= 0	x $210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
KIM WATSON

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: November 27, 2017

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.	:	5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT

This Supplemental Amendment supplements and shall substitute and replace the Amendment Accompanying Request for Continued Examination filed on November 22, 2017.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 3
Amendments to the Drawings	None
Remarks	Begin on page 31

Amendments to the Specification

Please amend the current abstract as shown below. Material to be deleted is in ~~strikeout~~. Material to be inserted is in **bold and underline**

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content to information apparatus or output devices are herein disclosed and enabled. The protected digital content is encrypted and device dependent or specific for rendering at a limited number of devices including smart phones, information pads, audio players, media controllers, televisions, **printers,** etc. To illustrate, an information apparatus may include an application for accessing selected digital content from a subscribed content service or store over the Internet. To access digital content, a client application may send, to the content service or store, authentication information, payment or subscription information, and/or a reference to selected digital content. The service then generates encrypted device dependent output data associated with a device or identification previously registered with the service for transmitting or streaming, to the information apparatus or output devices (e.g., televisions, speakers, media controllers), the digital content for rendering.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus or device for rendering, ~~the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination,~~ the digital content service including:

one or more servers for providing, to the information apparatus or the device, the digital content, the one or more servers being distinct and separate from the information apparatus and the device, and

one or more server applications executable at the one or more servers for managing at least part of the digital content service, the digital content service method comprising:

receiving, from the information apparatus or the device and by the one or more servers, security or authentication information associated with a user operating the information apparatus or the device for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus or the device and by the one or more servers, payment or subscription information associated with the user for accessing one or more digital content that are available at the one or more servers operated, at least in part, by the digital content service;

receiving, at the one or more servers, a device object from the information apparatus or the device over the network that includes the Internet, the device object including device information related to one or more devices, and the device information

corresponding to at least one of device identification information, **device address information, device capability information,** model information, brand information, or registration information, individually or in any combination, and the one or more devices include the information apparatus or the device;

providing, to the information apparatus or the device and by the one or more servers, one or more pointers or references to at least part of the one or more digital content available at the one or more servers for selection by the user at the information apparatus or the device;

receiving, at the one or more servers and from the information apparatus or the device, at least a pointer or reference to selected digital content from among the one or more pointers or references provided, by the one or more servers, to the information apparatus or the device;

retrieving, by the one or more server applications, at least part of the selected digital content from the one or more servers employing, at least in part, the pointer or reference to the selected digital content received from the information apparatus or the device;

generating output data, at the one or more servers using the one or more server applications, the output data being related to at least part of the selected digital content, and the generating of the output data including:

applying, by the one or more server applications, an encoding operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of at least part of the selected digital content, and wherein, subsequent to applying the encoding operation and the encryption scheme on at least part of the selected digital content, the selected digital content is, at least in part, device dependent for rendering at the one or more devices; and

transmitting, by the one or more servers, at least part of the generated output data to the information apparatus or the device for rendering at least part of the selected digital content at **the one or more devices** ~~the information apparatus or the device~~; and

wherein the generated output data is, at least in part, device dependent to the

one or more devices, and the generated output data having a relationship, at least in part, to the device information included in the device object and received by the one or more servers from the information apparatus or the device over the network that includes the Internet, and wherein the transmitting of at least part of the generated output data by the one or more servers to the information apparatus or the device is subsequent to having received the security or authentication information associated with the user operating the information apparatus or the device, and the transmitting of at least part of the generated output data is based, at least in part, on having received, from the information apparatus or the device, the payment or subscription information.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application at the information apparatus or the device and over a graphical user interface at a display screen of the information apparatus or the device, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application at the information apparatus or the device, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content that are available at the one or more servers; and

obtaining, by the client application at the information apparatus or the device, a content object that includes a pointer or reference to the selected digital content from among the one or more pointers or references.

133. (Currently amended) The method of claim 131 **wherein the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination; and wherein the digital content service includes an audio digital content service or a video digital content service, individually or in any combination.**

~~in which the information apparatus or the device are part of an output system, the output system includes a television or a controller connectable to a television for rendering or playing at least part of the selected digital content at the television.~~

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the output data.

135. (Currently amended) The method of claim **[[**131**]]** **133** in which the one or more devices include an output device, **the output device** ~~that~~ is at least one of a television, an output controller wire connectable with a television, an audio output device, a sound output device, a music output device, or a projection device, individually or in any combination, and wherein the output device is wire connectable **or wire connected** to the information apparatus or the device.

136. (Previously presented) The method of claim 132, further comprising:

receiving, by the client application at the information apparatus or the device, at least part of the output data from the one or more servers; and

decoding, by the client application at the information apparatus or the device, at least part of the output data received from the one or more servers for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information was previously received from the user by the digital content service, and the payment or subscription information is provided automatically when the digital content service is accessed by the information apparatus or the device.

139. (Currently amended) The method of claim 131 **in which the information apparatus or the device are part of an output system for receiving the output data for rendering at the one or more devices, the one or more devices include at least**

one of a television, a projector, a display screen, a printer, or an audio output device, individually or in any combination; and wherein the one or more devices are either:

(a) part of the output system for rendering or playing at least part of the selected digital content at the one or more devices; or

(b) connectable, by one or more wire or wireless connections, to the information apparatus or the device for rendering or playing at least part of the selected digital content at the one or more devices.

140. (Previously presented) The method of claim 138 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Previously presented) The method of claim 134 wherein the generated output data, corresponding to at least part of the selected digital content, is at least in part device dependent for rendering or output or playing at the one or more devices that include the information apparatus or the device, and at least part of the selected digital content includes an encryption scheme for ensuring security of the selected digital content, and wherein the method further comprises:

decoding, by the client application at the information apparatus or at the device, at least part of the selected digital content, using, at least in part, the output data received from the one or more servers; and

rendering, by the client application at the information apparatus or at the device, at least part of the selected digital content that has been decoded.

142. (Currently amended) The method of claim 137 in which at least one device of the one or more devices is an output device, and the output device includes at least one of a display device, a television, **a printer,** an audio output device, a speaker, or a music output device, individually or in any combination, and wherein the output device is

wirelessly connected or connectable to the information apparatus or the device.

143. (Currently amended) The method of claim 131 **wherein the one or more devices include one or more output devices, and subsequent to having received the device object by the one or more servers from the information apparatus or the device, the method further comprises receiving, from the information apparatus and by the one or more servers, a selected output device from among the one or more output devices; and the generated output data is device dependent for rendering at the selected output device; and wherein the selected output device includes an audio output device, a display device, a television, or a printer.**

~~further comprising establishing a communication channel between the information apparatus or the device and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a wireless local area network, a cellular network, or a wide area network, individually or in any combination.~~

144. (Currently amended) The method of claim **[[**131**]]** **133** in which the device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the output data includes audio data;

(2) a display device or a projection device and wherein the output data includes video data; or

(3) a television and wherein the output data includes audio data and video data.

145. (Currently amended) The method of claim **[[**131**]]** **133 wherein the information apparatus or the device** further ~~comprising~~ **includes** a client application that is installable at the information apparatus or the device, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data corresponding to at least part of the selected digital content.

146. (Previously presented) The method of claim 145 in which the device or the information apparatus decodes and decompresses, using the client application, at least part of the output data that is, at least in part, device dependent to the device or the information apparatus, for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, or involving one or more applications.

148. (Currently amended) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon or function control, and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein execution of at least part of the client application by the processor at the information apparatus configures the information apparatus for:

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or

more servers;

delivering, from the information apparatus, one or more device objects to the one or more servers over a network, the one or more device objects related to one or more devices, the one or more devices for outputting or playing digital content that are received from the digital content service, and the one or more devices being distinct and separate devices from the one or more servers, and the one or more device objects including information related to at least one of device identification information, **device address information, device capability information,** model information, brand information, registration information, or IP address information, individually or in any combination, related to the one or more devices;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, via the graphical user interface over the touch sensitive screen of the information apparatus, information associated with selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus to the one or more servers, at least a pointer or reference to the selected digital content;

receiving, at the information apparatus and from the one or more servers, output data corresponding to at least part of the selected digital content, the output data is related, at least in part, to the information included in the one or more device objects delivered from the information apparatus to the one or more servers, and the output data, corresponding to at least part of the selected digital content, is at least in part device dependent with respect to the one or more devices for output or playing at least part of the selected digital content; and

wherein the receiving of the ~~device dependent~~ output data is subsequent to having sent, from the information apparatus to the one or more servers, the security or authentication information associated with the user, and the receiving of the ~~device dependent~~ output data is further subsequent to having sent, from the information apparatus to the one or more servers, the payment or subscription information.

149. (Currently amended) The apparatus of claim 148 wherein the one or more devices include at least the information apparatus, and the information apparatus is further operable for:

decoding, at the information apparatus, at least part of the ~~device-dependent~~ output data received from the one or more servers for rendering or outputting or playing of at least part of the selected digital content; and

rendering or outputting or playing at least part of the selected digital content corresponding to the decoded ~~device-dependent~~ output data **that is device dependent for rendering** at the one or more devices.

150. (Previously presented) The apparatus of claim 149 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, or a wide area network, individually or in any combination.

151. (Currently amended) The apparatus of claim 150 further comprising transmitting at least part of the ~~device-dependent~~ received output data or **the** decoded output data from the information apparatus to an output device or device for rendering, the output device or device including one or more of **a printing device,** a display device, a projection device, a television device, an audio output device, a speaker, or an output controller wire connected to a television, individually or in any combination.

152. (Previously presented) The apparatus of claim 151 wherein the information apparatus is further operable for discovering an output device or device as being available for rendering at least part of the selected digital content; and wherein one or more device objects are related to the one or more output devices and include the or device, and the output device or device is a distinct device from the information apparatus.

153. (Currently amended) The apparatus of claim **[[**148**]]** **152** in which the information apparatus further includes one or more wireless communication units, and

communication between the information apparatus and the one or more servers over the network includes **wireless** transmission **of data** over the one or more wireless communication units included in the information apparatus**; and wherein the information apparatus is further operable for delivering, from the information apparatus to the one or more servers, an object that includes information related to the discovered output device or device; and wherein at least part of the output data received from the one or more servers is device dependent for rendering at the selected device**.

154. (Currently amended) The apparatus of claim 153 wherein the client application of the information apparatus further configures the information apparatus for:

providing, by the client application over the graphical user interface on the touch sensitive screen of the information apparatus, **the** one or more pointers or references to digital content for selection;

receiving, by the client application, selected digital content, over the graphical user interface on the touch sensitive screen of the information apparatus, from among the one or more pointers or references to digital content received **from the one or more servers**; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application; and

delivering, by the client application, the generated content object from the information apparatus to the one or more servers.

155. (Currently amended) The apparatus of claim 154 in which ~~the one or more servers obtain~~ the selected digital content **is obtained, by the one or more servers,** from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Currently amended) The apparatus of claim 153 in which the information apparatus is **embodied to be** at least one of a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, an audio output device, **a**

speaker, or a digital camera, individually or in any combination.

157. (Currently amended) A method for accessing digital content, by an apparatus over a network that includes the Internet, the apparatus including a communication unit, one or more processors, an operating system, and one or more client applications facilitated by the operating system and executable by the one or more processors for providing one or more functionalities of the apparatus, the method comprising:

establishing, using the communication unit, a connection between the apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the apparatus, and the one or more servers operated, at least partly, by a digital content service that is accessible, at least in part, by the apparatus over the Internet; and subsequent to establishing, using the communication unit, the connection between the apparatus and the one or more servers, the method further comprises:

receiving, at the apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the apparatus from the digital content service;

delivering, from the apparatus to the one or more servers, at least a pointer or reference to selected digital content, the pointer or the reference to the selected digital content being related to a selection by the user, at the apparatus, from among the one or more pointers or references to the digital content accessible by the apparatus from the digital content service, the one or more pointers or references provided, at least in part, to the apparatus by the one or more servers;

delivering, from the apparatus, one or more device objects to the one or more servers, the one or more device objects including information corresponding to one or more devices that are distinct and separate devices from the one or more servers, and the information including at least one of device identification information, **device address information, device capability information,** model information, brand information, or registration information, individually or in any combination, related to the one or more devices;

sending, from the apparatus to the one or more servers over the network, security or authentication information associated with a user operating the apparatus, and, in dependence of a successful authentication of the user, enabling the user access to the digital content service; and

receiving, at the apparatus, from the one or more servers operated, at least partly, by the digital content service, output data, the output data corresponding to the selected digital content and having a relationship, at least in part, to the one or more device objects delivered from the apparatus to the one or more servers over the network that includes the Internet, and the output data corresponding to the selected digital content further including an encryption scheme for ensuring security of the selected digital content for rendering at the one or more devices, and at least part of the output data is device dependent for rendering at least part of the selected digital content at the one or more devices.

158. (Previously presented) The method of claim 157 further comprising:

establishing a communication connection between the apparatus and an output device that is at least one of a television, an output controller connected to a television, an audio output device, or a speaker, individually or in any combination; and

transmitting, by the apparatus, at least part of the selected digital content over the communication connection for rendering at least part of the selected digital content at the output device.

159. (Currently amended) The method of claim 157 in which the apparatus is **embodied to be** at least one of a desktop computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, a speaker, **an audio output device, a display device,** or a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the apparatus to the one or more servers over the network as payment or subscription for accessing the digital content service, and, subsequent to having sent the payment or subscription information to the one or more

servers, the apparatus receives the output data corresponding, at least in part, to the selected digital content from the one or more servers operated, at least partly, by the digital content service.

161. (Previously presented) The method of claim 160 in which the apparatus includes an output device that is a display screen or a speaker for rendering or outputting at least part of the selected digital content received from the one or more servers, and wherein the output data is at least in part device dependent for rendering at the one or more devices that include the apparatus, and wherein delivering of the one or more device objects from the apparatus to the one or more servers is for authorizing the one or more devices for rendering the selected digital content.

162. (Previously presented) The method of claim 157 wherein the method further comprises delivering, from the apparatus, one or more content objects to the one or more servers, the one or more content objects include digital content for storing at the one or more servers, and wherein, subsequent to storing the digital content at the one or more servers, the method further comprises receiving, at the apparatus, output data related, at least part, to the digital content stored at the one or more servers, the received digital content being previously delivered by the apparatus for storing by the apparatus at the one or more servers, and the received digital content that was previously stored by the apparatus not including the encryption scheme applied to the selected digital content.

163. (Currently amended) The method of claim 157 in which the apparatus is part of an output system that includes a television or a speaker, individually or in any combination, and at least part of the output system is operable for accessing the digital content service over the Internet, and wherein the apparatus further includes a voice activated command interface for interacting with the user for accessing at least part of the selected digital content from the digital content service; **and wherein the selected digital content includes, at least in part, video digital content or audio digital content, individually or in any combination**.

164. (Currently amended) The method of claim 157 in which the apparatus is wired or wirelessly connected to a television for rendering at least part of the selected digital content at the television, and the method further comprises decoding at least part of the output data corresponding to at least part of the selected digital content at the apparatus for rendering at the television; **and wherein the selected digital content includes, at least in part, video digital content or audio digital content, individually or in any combination**.

165. (Currently amended) The method of claim 157 in which the apparatus includes a communication interface and the method further comprises the apparatus establishing a wired or wireless connection, via the communication interface, with a device that includes at least one of **a printer,** a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the selected digital content over the wired or wireless connection for rendering at the device.

166. (Previously presented) The method of claim 157, further comprising decoding or decompressing at least part of the output data corresponding to at least part of the selected digital content at the apparatus for rendering, and wherein the encryption scheme included with the output data corresponding to the selected digital content includes security keys for ensuring security of the selected digital content.

167. (Currently amended) A system for accessing a digital content service over a network and for receiving ~~device-dependent~~ output data from one or more servers over the network for rendering, the one or more servers being distinct and separate devices from the system, and the one or more servers operated, at least partly, by the digital content service, the received ~~device-dependent~~ output data corresponding to at least part of digital content that is acceptable for rendering at the system, the system comprising:

a processor;

a device that is at least one of a display device, or a projection device, or an audio output device, for rendering at least part of the ~~device-dependent~~ output data;

an operating system;

a client application having an interface for interacting with a user of the system, the client application facilitated, at least partly, by the operating system included in the system;

wherein the system is configured for:

establishing a communication channel between the system and the one or more servers over the network for accessing the digital content service;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in a content server, the content server operated, at least partly, by the digital content service, for selection by the user;

providing, by the client application and via the interface, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, at the system via the interface, selected digital content from among the one or more pointers or references to the one or more digital content provided for selection, the selected digital content includes at least one of video digital content or audio digital content, individually or in any combination;

delivering, from the system, at least part of a content object to the one or more servers over the network, the content object including at least a pointer or reference to the selected digital content;

delivering, by the system, at least part of an object to the one or more servers over the network, the object including information related to at least part of the system;

sending, from the system to the one or more servers over the network, security or authentication information associated with the user of the system for authentication of the user for accessing the digital content service;

sending, from the system to the one or more servers, payment or subscription information for accessing the digital content service;

receiving, at the system, the ~~device-dependent~~ output data from the one or more servers, the ~~device-dependent~~ output data corresponding to at least part of the selected

digital content**, and the output data** corresponding, at least in part, to the content object delivered from the system to the one or more servers, and the ~~device-dependent~~ output data having a relationship, at least in part, to the information included in the object delivered from the system to the one or more servers over the network, and the ~~device-dependent~~ output data further including an encryption scheme for ensuring security of the selected digital content that is at least in part device dependent to the system and is acceptable for rendering by the system**, and at least part of the output data is device dependent for rendering by the system**;

decoding at least part of the received ~~device-dependent~~ output data, at the system, for rendering at least part of the selected digital content by the system; and

subsequent to having decoded at least part of the ~~device-dependent~~ output data, the system is further configured for:

rendering, using the device that includes at least one of a display device, or a projection device, or an audio output device, **at least part of the decoded output data corresponding to** at least **part** of the selected digital content.

168. (Currently amended) The system of claim 167 in which the object includes **at least one of** a device identification information**, or a registration information,** or an address **information, individually or in any combination,** related to the system, and the system is further configured for obtaining the object for delivering to the one or more servers, the obtaining of the object includes obtaining information from at least one of the following: (1) user input, (2) processing a device identification information at the system, (3) obtaining information from one or more devices that are distinct and separate devices from the system, (4) retrieving a parameter stored in the system, or (5) a default parameter or preference associated with the system, individually or in any combination.

169. (Currently amended) The system of claim 167 wherein the system ~~includes~~ **is embodied to be** at least one of a television system, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance, a speaker, **an audio output device, a display device,** or a digital

camera, individually or in any combination.

170. (Previously presented) The system of claim 167 in which the system is embodied, at least in part, as an information apparatus, and the device is at least a speaker included in the information apparatus, and the device and the information apparatus are wire connected, and wherein the interface of the system includes a voice activated command interface for interacting with the user.

171. (Currently amended) The system of claim 170 wherein the encryption scheme for ensuring security of the selected digital content includes security keys, and the system further enables operations for processing, at the system, the ~~device dependent~~ output data into a form, format, or language more suitable for rendering at the device, the processing including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system, over a network that includes the Internet, digital content that is acceptable for rendering at the output system, the output system including one or more devices, the digital content service system comprising:

one or more servers that are distinct and separate from the output system;

one or more processors included in the one or more servers;

one or more server applications executable, at least partly, by the one or more processors at the one or more servers to facilitate operations of the one or more servers;

memory or one or more storage units at the one or more servers configured to store at least part of the one or more server applications; wherein **execution of the one or more server applications by the one or more processors causes** the one or more servers ~~are operable~~ to:

receive, by the one or more servers and from the output system, security or authentication information associated with a user for authenticating the user to access the digital content service system, and, in dependence of a successful authentication,

the one or more servers is further operable to:

receive, by the one or more servers and from the output system, device information relating to at least part of the output system that includes one or more devices;

receive, by the one or more servers and from the output system, a content object, the content object including at least a pointer or reference to selected digital content, the selected digital content being related to a selection by the user from among one or more pointers or references to available digital content from the digital content service system, the one or more pointers or references provided, at least in part, to the output system by the one or more servers;

receive, by the one or more servers and from the output system, payment or subscription information to enable transmitting at least part of the selected digital content to the output system;

generating, by the one or more server applications, output data related, at least partly, to the selected digital content, the generating of the output data being after the one or more servers received the content object from the output system, and the generating of the output data being after the one or more servers received at least part of the payment or subscription information from the output system, and at least part of the generated output data has a relationship, at least in part, to the device information relating to the output system received by the one or more servers, and at least part of the generated output data includes (1) ~~a compression~~ **an encoding** operation applied on at least part of the selected digital content, and (2) an encryption scheme associated with one or more security keys applied on at least part of the selected digital content for ensuring security of the selected digital content; and

wherein the generated output data related, at least partly, to the selected digital content, is device dependent for rendering at the output system that includes one or more devices, and at least part of the output data is for transmitting to the output system, and

wherein the generated output data, related, at least partly, to the selected digital content, is acceptable for rendering at least part of the selected digital content at the output system that includes one or more devices, and the selected digital content

includes at least one of audio digital content or video digital content, individually or in any combination.

173. (Previously presented) The system of claim 172 wherein the output system includes a client application, and the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data that is at least in part device dependent for rendering at the output system, and the client application is further operable for decoding at least part of the output data received from the one or more servers for rendering at least part of the selected digital content at the output system that includes one or more devices.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device or speaker and the output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system includes one or more devices for rendering at least part of the selected digital content, and the one or more devices includes at least one of a television, an output controller connectable to a television, a display device, a speaker, or an audio output device, individually or in any combination.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to the selected digital content, and the one or more server applications further retrieve, using the pointer or reference to the selected digital content, at least part of the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device at a server system, containing one or more server applications executable by one or more processors at one or more servers in the server system for transmitting device

dependent output data acceptable for rendering at an output system, the output system including one or more devices, and the server system including one or more servers that are accessible by the one or more devices over a network that includes the Internet, the server system being distinct and separate from the one or more devices of the output system, the one or more server applications in the computer memory or storage device, when executed by the one or more processors at the one or more servers, configures the server system to:

receive, by the server system from the output system, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system, the selection from among one or more pointers or references to available digital content at the server system there are provided, at least in part, to the output system by the server system;

receive, by the server system from the output system, one or more objects, the one or more objects having information related to the output system that includes the one or more devices;

receive, by the server system and from the output system, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system;

generate, by the server system, output data associated with at least part of the digital content, the output data having a relationship, at least in part, to the information included in the one or more objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital content for transmitting the output data that is associated with at least part of the digital content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content for rendering at the output system; and

transmit, by the server system to the output system over the network that includes the Internet, at least part of the output data that is associated with at least part of the digital content, the encryption scheme is applied to at least part of the digital content, and wherein the transmitting of at least part of the output data ~~being~~ **is** after the server system receives, from the output system, at least (i) the security or authentication information, (ii) the one or more content objects, and (iii) the one or more objects from the output system; and

wherein the one or more devices of the output system include at least an information apparatus, and at least part of the transmitted output data being device dependent for rendering at least part of the digital content at the output system that includes the one or more devices ~~and the information apparatus~~.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Currently amended) The memory or storage device of claim 178 in which the information apparatus **included in the output system includes a display screen or a speaker for rendering digital content, and the information apparatus** further renders at least part of the output data at **[[a]] the** display screen or at **[[a]] the** speaker of the information apparatus.

180. (Currently amended) In a non-transitory computer memory or storage device at one or more servers or at an information apparatus, containing client software configured to be executable, at least partly, by one or more processors at the information apparatus for obtaining digital content from a digital content service operated, at least partly, over the Internet, the digital content obtained from the digital content service being encoded, at least partly, with an encryption scheme that is acceptable for rendering at one or more devices, the one or more devices includes the information apparatus,

the information apparatus including:

memory for storing at least part of the client software,

a display screen **or a speaker, individually or in any combination**, and

~~a graphical~~ **a** user interface ~~over the display screen~~ for interacting with a user,

the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the digital content ~~includes video digital content or audio digital content~~ for rendering at the one or more devices,

wherein the client software, facilitated by the operating system, is executable, at least partly, by the one or more processors at the information apparatus to perform a method at the information apparatus, the method comprising:

establishing a communication channel between the information apparatus and the one or more servers over a network that includes the Internet, the one or more servers being distinct and separate devices from the information apparatus and the one or more devices, and the one or more servers is operated, at least partly, by the digital content service; and

sending, from the information apparatus to the one or more servers over the network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user to access the digital content service; and

obtaining, at the information apparatus, one or more device objects related to the one or more devices, the one or more device objects including device information related, at least in part, to at least one of device identification information, **device address information, device capability information,** model information, brand information, or registration information, individually or in any combination; **and**

delivering, from the information apparatus, at least part of the one or more device objects to the one or more servers; and

providing, over the ~~graphical~~ user interface at ~~the display screen~~ **the information apparatus**, one or more pointers or references to the digital content that are available from the digital content service for selection by the user of the information apparatus; and

receiving a selected digital content, via the ~~graphical~~ user interface at the **information apparatus** ~~display screen~~, from among the one or more pointers or

references to the digital content provided over the ~~graphical~~ user interface **for selection by the user** ~~at the display screen~~; and

obtaining, at the information apparatus, a content object that includes a pointer or reference to the selected digital content; and

delivering, from the information apparatus, at least part of the content object to the one or more servers; and

receiving, from the one or more servers and at the information apparatus, output data that is device dependent for rendering at the one or more devices, the output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the device information included in the one or more device objects delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the received output data further including an encryption scheme applied on at least part of the selected digital content for ensuring security of the selected digital content; and

decoding, at the information apparatus, at least part of the received output data that is at least in part device dependent for rendering at the one or more devices, the output data includes an encryption scheme applied on at least part of the selected digital content; and

rendering at least part of the decoded output data related, at least in part, to the selected digital content at the one or more devices**, the one or more devices** ~~that~~ includes the information apparatus.

181. (Currently amended) The non-transitory computer memory or storage device of claim 180 wherein the client application is facilitated by the operating system for installing the client application, at the information apparatus, for expanding the functionalities of the information apparatus**; and wherein the method further comprises delivering, from the information apparatus to the one or more servers, an object that includes information related to a selected device for rendering the selected digital content from among the one or more devices; and wherein receiving the output data from the one or more servers is based on having delivered the object, and wherein at least part of the output data is device**

dependent for rendering at the selected device.

182. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the encryption scheme for ensuring security of the selected digital content includes security keys.

183. (Previously presented) The non-transitory computer memory or storage device of claim 181 in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, a speaker, a controller connectable to a television, or a digital camera, individually or in any combination.

184. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the one or more devices are either a projection device, a display screen, speaker, a controller connectable to a television, or a television**, individually or in any combination**, and wherein a connection between the information apparatus and the one or more devices includes a wired connection, and wherein the information apparatus further includes a voice activated command interface for interacting with the user, and the receiving of the selected digital content is via the voice activated command interface**; and wherein the selected digital content includes video digital content or audio digital content.**

185. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which ~~the display screen of~~ the information apparatus includes a touch sensitive screen, **and the user interface is a touch sensitive screen interface,** and the receiving of the selected digital content is via the touch sensitive screen **interface**, and at least part of the selected digital content includes one or more of image data, graphics data, **audio data,** video data, **or [[**and**]]** text data, individually or in any combination, for rendering over the touch sensitive screen **or over the speaker of the information apparatus**.

186. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the one or more devices include one or more of **a display device,** a television, a speaker, an audio output device, or an output controller connectable to a television, individually or in any combination, and the selected digital content includes video **digital** content or audio **digital** content**, individually or in any combination,** for rendering at the **one or more devices** ~~television or at the speaker~~.

187. (Currently amended) The non-transitory computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers, and the receiving of the output data for rendering at the one or more ~~output~~ devices is subsequent to having sent the payment or subscription information.

188. (Currently amended) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus**; and wherein the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination**.

189. (Currently amended) The memory or storage device of claim 177 in which the output system includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or to the projection device**; and wherein the digital content includes at least one of audio digital content or video digital content, individually or in any combination.**

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system

include at least part of the digital content; and the server applications in the computer memory or storage device, when executed by the one or more processors at the server system, further enables the server system to store at least part of the received digital content at a server.

191. (Currently amended) The memory or storage device of claim 177 in which the one or more objects include device identification information, the device identification information including one or more of a device brand, a model, an identification number, a name, **an address, a device capability, a name,** a path, a registration, or an IP address, individually or in any combination, and the device identification information is related to the output system or to the one or more devices of the output system.

192. (Currently amended) The system of claim 172 in which the device information associated with the output system includes information corresponding to at least one of device identification information, model information, **device address information, device capability information, device model information, device** brand information, registration information, or IP address information, individually or in any combination, associated with the one or more devices included in the output system.

193. (Currently amended) The system of claim 172 in which the output system includes one or more devices that is acceptable for rendering at least part of the selected digital content, the one or more devices includes an information apparatus that is **embodied to be** at least one of an e-book, a smart phone, an Internet phone, **a speaker,** an information pad, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

194. (Currently amended) The system of claim 167 in which the system includes a smart phone for receiving the ~~device-dependent~~ output data, and the smart phone

further enables operations for wirelessly delivering at least part of the selected digital content from the smart phone to an output controller**, the output controller is** associated with a television **or a printer** or **a** speaker for rendering at least part of the selected digital content at the television **or at the printer** or at the speaker**, individually or in any combination**.

195. (Currently amended) The system of claim 167 in which the system includes an information apparatus, and the information apparatus is connected to the device over a wireless network connection, **a local area network connection,** a direct wireless connection, or a wired connection, individually or in any combination.

196. (Currently amended) The system of claim 167 in which the system is at least a controller that is wire connectable to a television using a wire communication interface, the controller is configured to receive the ~~device-dependent~~ output data from the one or more servers, and the controller is configured to decode at least part of the ~~device-dependent~~ output data related to at least part of the selected digital content, and the controller is further configured to transmit at least part of the decoded digital content to the television, via the wired communication interface, for rendering at least part of the selected digital content at the television.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, or a wireless network, individually or in any combination, and the establishing of the communication channel is subsequent to having sent the security or authentication information from the system to the one or more servers over the network.

198. (Previously presented) The system of claim 197 in which the system includes an information apparatus, and the information apparatus is at least one of a laptop computer, a desktop computer, a smart phone, an Internet pad, an Internet appliance, a speaker, or a digital camera, individually or in any combination, and the

information apparatus is configured for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network, and the receiving of at least part of the device dependent output data is based, at least in part, on having sent the payment or subscription information from the system to the one or more servers over the network.

199. (Previously presented) The method of claim 161 in which the communication unit of the apparatus includes a wireless communication unit and the connection between the apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication unit of the apparatus.

REMARKS

This Amendment supplements and shall substitute and replace in entirety the Amendment Accompanying Request for Continued Examination filed on November 22, 2017. Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated August 23, 2017

A Notice of Allowance was mailed on August 23, 2017 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Claims of Application

Because Applicant is filing a Request for Continued Examination, Applicant has taken the opportunity to amend the claims of the application to improve consistency and clarity. Applicant corrected some antecedence errors as well as improved readability of the claims. Applicant respectfully requests entry of the above claim amendments as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or representative of the assignee, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on November 27, 2017.

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Electronic Acknowledgement Receipt

EFS ID:	31049262
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
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Application Type:	Utility under 35 USC 111(a)

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File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Supplemental Response or Supplemental Amendment	20171127_Supplemental_Amendment_FXT312.pdf	189586 88d5032ea925ea03d3688d57cd85f6e1d0a78	no	32
Warnings:					
Information:					
		Total Files Size (in bytes):	189586		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2458
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit Henderson		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
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SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No _____

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-11-22
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: November 22, 2017

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.	:	5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 3
Amendments to the Drawings	None
Remarks	Begin on page 30

Amendments to the Specification

Please amend the current abstract as shown below. Material to be deleted is in ~~strikeout~~. Material to be inserted is in **bold and underline**

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content to information apparatus or output devices are herein disclosed and enabled. The protected digital content is encrypted and device dependent or specific for rendering at a limited number of devices including smart phones, information pads, audio players, media controllers, televisions, **printers,** etc. To illustrate, an information apparatus may include an application for accessing selected digital content from a subscribed content service or store over the Internet. To access digital content, a client application may send, to the content service or store, authentication information, payment or subscription information, and/or a reference to selected digital content. The service then generates encrypted device dependent output data associated with a device or identification previously registered with the service for transmitting or streaming, to the information apparatus or output devices (e.g., televisions, speakers, media controllers), the digital content for rendering.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus or device for rendering, ~~the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination,~~ the digital content service including:

one or more servers for providing, to the information apparatus or the device, the digital content, the one or more servers being distinct and separate from the information apparatus and the device, and

one or more server applications executable at the one or more servers for managing at least part of the digital content service, the digital content service method comprising:

receiving, from the information apparatus or the device and by the one or more servers, security or authentication information associated with a user operating the information apparatus or the device for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus or the device and by the one or more servers, payment or subscription information associated with the user for accessing one or more digital content that are available at the one or more servers operated, at least in part, by the digital content service;

receiving, at the one or more servers, a device object from the information apparatus or the device over the network that includes the Internet, the device object including device information related to one or more devices, and the device information

corresponding to at least one of device identification information, **device address information, device capability information,** model information, brand information, or registration information, individually or in any combination, and the one or more devices include the information apparatus or the device;

providing, to the information apparatus or the device and by the one or more servers, one or more pointers or references to at least part of the one or more digital content available at the one or more servers for selection by the user at the information apparatus or the device;

receiving, at the one or more servers and from the information apparatus or the device, at least a pointer or reference to selected digital content from among the one or more pointers or references provided, by the one or more servers, to the information apparatus or the device;

retrieving, by the one or more server applications, at least part of the selected digital content from the one or more servers employing, at least in part, the pointer or reference to the selected digital content received from the information apparatus or the device;

generating output data, at the one or more servers using the one or more server applications, the output data being related to at least part of the selected digital content, and the generating of the output data including:

applying, by the one or more server applications, an encoding operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of at least part of the selected digital content, and wherein, subsequent to applying the encoding operation and the encryption scheme on at least part of the selected digital content, the selected digital content is, at least in part, device dependent for rendering at the one or more devices; and

transmitting, by the one or more servers, at least part of the generated output data to the information apparatus or the device for rendering at least part of the selected digital content at **the one or more devices** ~~the information apparatus or the device~~; and

wherein the generated output data is, at least in part, device dependent to the

one or more devices, and the generated output data having a relationship, at least in part, to the device information included in the device object and received by the one or more servers from the information apparatus or the device over the network that includes the Internet, and wherein the transmitting of at least part of the generated output data by the one or more servers to the information apparatus or the device is subsequent to having received the security or authentication information associated with the user operating the information apparatus or the device, and the transmitting of at least part of the generated output data is based, at least in part, on having received, from the information apparatus or the device, the payment or subscription information.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application at the information apparatus or the device and over a graphical user interface at a display screen of the information apparatus or the device, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application at the information apparatus or the device, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content that are available at the one or more servers; and

obtaining, by the client application at the information apparatus or the device, a content object that includes a pointer or reference to the selected digital content from among the one or more pointers or references.

133. (Currently amended) The method of claim 131 **wherein the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination; and wherein the digital content service includes an audio digital content service or a video digital content service, individually or in any combination.**

~~in which the information apparatus or the device are part of an output system, the output system includes a television or a controller connectable to a television for rendering or playing at least part of the selected digital content at the television.~~

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the output data.

135. (Currently amended) The method of claim **[[**131**]]** **133** in which the one or more devices include an output device, **the output device** ~~that~~ is at least one of a television, an output controller wire connectable with a television, an audio output device, a sound output device, a music output device, or a projection device, individually or in any combination, and wherein the output device is wire connectable **or wire connected** to the information apparatus or the device.

136. (Previously presented) The method of claim 132, further comprising:

receiving, by the client application at the information apparatus or the device, at least part of the output data from the one or more servers; and

decoding, by the client application at the information apparatus or the device, at least part of the output data received from the one or more servers for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information was previously received from the user by the digital content service, and the payment or subscription information is provided automatically when the digital content service is accessed by the information apparatus or the device.

139. (Currently amended) The method of claim 131 **in which the information apparatus or the device are part of an output system for receiving the output data for rendering at the one or more devices, the one or more devices include at least**

one of a television, a projector, a display screen, a printer, or an audio output device, individually or in any combination; and wherein the one or more devices are either:

(a) part of the output system for rendering or playing at least part of the selected digital content at the one or more devices; or

(b) connectable, by one or more wire or wireless connections, to the information apparatus or the device for rendering or playing at least part of the selected digital content at the one or more devices.

140. (Previously presented) The method of claim 138 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Previously presented) The method of claim 134 wherein the generated output data, corresponding to at least part of the selected digital content, is at least in part device dependent for rendering or output or playing at the one or more devices that include the information apparatus or the device, and at least part of the selected digital content includes an encryption scheme for ensuring security of the selected digital content, and wherein the method further comprises:

decoding, by the client application at the information apparatus or at the device, at least part of the selected digital content, using, at least in part, the output data received from the one or more servers; and

rendering, by the client application at the information apparatus or at the device, at least part of the selected digital content that has been decoded.

142. (Currently amended) The method of claim 137 in which at least one device of the one or more devices is an output device, and the output device includes at least one of a display device, a television, **a printer,** an audio output device, a speaker, or a music output device, individually or in any combination, and wherein the output device is

wirelessly connected or connectable to the information apparatus or the device.

143. (Currently amended) The method of claim 131 **wherein the one or more devices include one or more output devices, and subsequent to having received the device object by the one or more servers from the information apparatus or the device, the method further comprises receiving, from the information apparatus and by the one or more servers, a selected output device from among the one or more output devices; and the generated output data is device dependent for rendering at the selected output device; and wherein the selected output device includes an audio output device, a display device, a television, or a printer.**

~~further comprising establishing a communication channel between the information apparatus or the device and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a wireless local area network, a cellular network, or a wide area network, individually or in any combination.~~

144. (Currently amended) The method of claim **[[**131**]]** **133** in which the device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the output data includes audio data;

(2) a display device or a projection device and wherein the output data includes video data; or

(3) a television and wherein the output data includes audio data and video data.

145. (Currently amended) The method of claim **[[**131**]]** **133 wherein the information apparatus or the device** further ~~comprising~~ **includes** a client application that is installable at the information apparatus or the device, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data corresponding to at least part of the selected digital content.

146. (Previously presented) The method of claim 145 in which the device or the information apparatus decodes and decompresses, using the client application, at least part of the output data that is, at least in part, device dependent to the device or the information apparatus, for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, or involving one or more applications.

148. (Currently amended) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon or function control, and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein execution of at least part of the client application by the processor at the information apparatus configures the information apparatus for:

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or

subscription information for accessing the digital content service provided by the one or more servers;

delivering, from the information apparatus, one or more device objects to the one or more servers over a network, the one or more device objects related to one or more devices, the one or more devices for outputting or playing digital content that are received from the digital content service, and the one or more devices being distinct and separate devices from the one or more servers, and the one or more device objects including information related to at least one of device identification information, **device address information, device capability information,** model information, brand information, registration information, or IP address information, individually or in any combination, related to the one or more devices;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, via the graphical user interface over the touch sensitive screen of the information apparatus, information associated with selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus to the one or more servers, at least a pointer or reference to the selected digital content;

receiving, at the information apparatus and from the one or more servers, output data corresponding to at least part of the selected digital content, the output data is related, at least in part, to the information included in the one or more device objects delivered from the information apparatus to the one or more servers, and the output data, corresponding to at least part of the selected digital content, is at least in part device dependent with respect to the one or more devices for output or playing at least part of the selected digital content; and

wherein the receiving of the ~~device dependent~~ output data is subsequent to having sent, from the information apparatus to the one or more servers, the security or authentication information associated with the user, and the receiving of the ~~device dependent~~ output data is further subsequent to having sent, from the information

apparatus to the one or more servers, the payment or subscription information.

149. (Currently amended) The apparatus of claim 148 wherein the one or more devices include at least the information apparatus, and the information apparatus is further operable for:

decoding, at the information apparatus, at least part of the ~~device-dependent~~ output data received from the one or more servers for rendering or outputting or playing of at least part of the selected digital content; and

rendering or outputting or playing at least part of the selected digital content corresponding to the decoded ~~device-dependent~~ output data **that is device dependent for rendering** at the one or more devices.

150. (Previously presented) The apparatus of claim 149 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, or a wide area network, individually or in any combination.

151. (Currently amended) The apparatus of claim 150 further comprising transmitting at least part of the ~~device-dependent~~ received output data or **the** decoded output data from the information apparatus to an output device or device for rendering, the output device or device including one or more of **a printing device,** a display device, a projection device, a television device, an audio output device, a speaker, or an output controller wire connected to a television, individually or in any combination.

152. (Previously presented) The apparatus of claim 151 wherein the information apparatus is further operable for discovering an output device or device as being available for rendering at least part of the selected digital content; and wherein one or more device objects are related to the one or more output devices and include the discovered output device or device, and the output device or device is a distinct device from the information apparatus.

153. (Currently amended) The apparatus of claim 148 in which the information

apparatus further includes one or more wireless communication units, and communication between the information apparatus and the one or more servers over the network includes **wireless** transmission **of data** over the one or more wireless communication units included in the information apparatus.

154. (Currently amended) The apparatus of claim 153 wherein the client application of the information apparatus further configures the information apparatus for:

providing, by the client application over the graphical user interface on the touch sensitive screen of the information apparatus, **the** one or more pointers or references to digital content for selection;

receiving, by the client application, selected digital content, over the graphical user interface on the touch sensitive screen of the information apparatus, from among the one or more pointers or references to digital content received **from the one or more servers**; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application; and

delivering, by the client application, the generated content object from the information apparatus to the one or more servers.

155. (Currently amended) The apparatus of claim 154 in which ~~the one or more servers obtain~~ the selected digital content **is obtained, by the one or more servers,** from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 153 in which the information apparatus is at least one of a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, an audio output device, or a digital camera, individually or in any combination.

157. (Currently amended) A method for accessing digital content, by an apparatus over a network that includes the Internet, the apparatus including a

communication unit, one or more processors, an operating system, and one or more client applications facilitated by the operating system and executable by the one or more processors for providing one or more functionalities of the apparatus, the method comprising:

establishing, using the communication unit, a connection between the apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the apparatus, and the one or more servers operated, at least partly, by a digital content service that is accessible, at least in part, by the apparatus over the Internet; and subsequent to establishing, using the communication unit, the connection between the apparatus and the one or more servers, the method further comprises:

receiving, at the apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the apparatus from the digital content service;

delivering, from the apparatus to the one or more servers, at least a pointer or reference to selected digital content, the pointer or the reference to the selected digital content being related to a selection by the user, at the apparatus, from among the one or more pointers or references to the digital content accessible by the apparatus from the digital content service, the one or more pointers or references provided, at least in part, to the apparatus by the one or more servers;

delivering, from the apparatus, one or more device objects to the one or more servers, the one or more device objects including information corresponding to one or more devices that are distinct and separate devices from the one or more servers, and the information including at least one of device identification information, **device address information, device capability information,** model information, brand information, or registration information, individually or in any combination, related to the one or more devices;

sending, from the apparatus to the one or more servers over the network, security or authentication information associated with a user operating the apparatus, and, in dependence of a successful authentication of the user, enabling the user access to the digital content service; and

receiving, at the apparatus, from the one or more servers operated, at least partly, by the digital content service, output data, the output data corresponding to the selected digital content and having a relationship, at least in part, to the one or more device objects delivered from the apparatus to the one or more servers over the network that includes the Internet, and the output data corresponding to the selected digital content further including an encryption scheme for ensuring security of the selected digital content for rendering at the one or more devices, and at least part of the output data is device dependent for rendering at least part of the selected digital content at the one or more devices.

158. (Previously presented) The method of claim 157 further comprising:

establishing a communication connection between the apparatus and an output device that is at least one of a television, an output controller connected to a television, an audio output device, or a speaker, individually or in any combination; and

transmitting, by the apparatus, at least part of the selected digital content over the communication connection for rendering at least part of the selected digital content at the output device.

159. (Previously presented) The method of claim 157 in which the apparatus is at least one of a desktop computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, a speaker, or a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the apparatus to the one or more servers over the network as payment or subscription for accessing the digital content service, and, subsequent to having sent the payment or subscription information to the one or more servers, the apparatus receives the output data corresponding, at least in part, to the selected digital content from the one or more servers operated, at least partly, by the digital content service.

161. (Currently amended) The method of claim 160 in which the apparatus includes an output device that is a display screen or a speaker for rendering or outputting at least part of the selected digital content received from the one or more servers, and wherein the output data is at least in part device dependent for rendering at the one or more devices that include the apparatus, and wherein delivering of the one or more device objects from the apparatus to the one or more servers is for authorizing the one or more devices for rendering the selected digital content; **and wherein the selected digital content includes, at least in part, video digital content or audio digital content, individually or in any combination.**

162. (Previously presented) The method of claim 157 wherein the method further comprises delivering, from the apparatus, one or more content objects to the one or more servers, the one or more content objects include digital content for storing at the one or more servers, and wherein, subsequent to storing the digital content at the one or more servers, the method further comprises receiving, at the apparatus, output data related, at least part, to the digital content stored at the one or more servers, the received digital content being previously delivered by the apparatus for storing by the apparatus at the one or more servers, and the received digital content that was previously stored by the apparatus not including the encryption scheme applied to the selected digital content.

163. (Currently amended) The method of claim 157 in which the apparatus is part of an output system that includes a television or a speaker, individually or in any combination, and at least part of the output system is operable for accessing the digital content service over the Internet, and wherein the apparatus further includes a voice activated command interface for interacting with the user for accessing at least part of the selected digital content from the digital content service; **and wherein the selected digital content includes, at least in part, video digital content or audio digital content, individually or in any combination**.

164. (Currently amended) The method of claim 157 in which the apparatus is

wired or wirelessly connected to a television for rendering at least part of the selected digital content at the television, and the method further comprises decoding at least part of the output data corresponding to at least part of the selected digital content at the apparatus for rendering at the television; **and wherein the selected digital content includes, at least in part, video digital content or audio digital content, individually or in any combination**.

165. (Currently amended) The method of claim 157 in which the apparatus includes a communication interface and the method further comprises the apparatus establishing a wired or wireless connection, via the communication interface, with a device that includes at least one of **a printer,** a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the selected digital content over the wired or wireless connection for rendering at the device.

166. (Previously presented) The method of claim 157, further comprising decoding or decompressing at least part of the output data corresponding to at least part of the selected digital content at the apparatus for rendering, and wherein the encryption scheme included with the output data corresponding to the selected digital content includes security keys for ensuring security of the selected digital content.

167. (Currently amended) A system for accessing a digital content service over a network and for receiving ~~device-dependent~~ output data from one or more servers over the network for rendering, the one or more servers being distinct and separate devices from the system, and the one or more servers operated, at least partly, by the digital content service, the received ~~device-dependent~~ output data corresponding to at least part of digital content that is acceptable for rendering at the system**, and at least part of the output data is device dependent for rendering at the system**, the system comprising:

a processor;

a device that is at least one of a display device, or a projection device, or an

audio output device, for rendering at least part of the ~~device-dependent~~ output data;

an operating system;

a client application having an interface for interacting with a user of the system, the client application facilitated, at least partly, by the operating system included in the system;

wherein the system is configured for:

establishing a communication channel between the system and the one or more servers over the network for accessing the digital content service;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in a content server, the content server operated, at least partly, by the digital content service, for selection by the user;

providing, by the client application and via the interface, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, at the system via the interface, selected digital content from among the one or more pointers or references to the one or more digital content provided for selection, the selected digital content includes at least one of video digital content or audio digital content, individually or in any combination;

delivering, from the system, at least part of a content object to the one or more servers over the network, the content object including at least a pointer or reference to the selected digital content;

delivering, by the system, at least part of an object to the one or more servers over the network, the object including information related to at least part of the system;

sending, from the system to the one or more servers over the network, security or authentication information associated with the user of the system for authentication of the user for accessing the digital content service;

sending, from the system to the one or more servers, payment or subscription information for accessing the digital content service;

receiving, at the system, the ~~device-dependent~~ output data from the one or more servers, the ~~device-dependent~~ output data corresponding to at least part of the selected digital content corresponding, at least in part, to the content object delivered from the

system to the one or more servers, and the ~~device-dependent~~ output data having a relationship, at least in part, to the information included in the object delivered from the system to the one or more servers over the network, and the ~~device-dependent~~ output data further including an encryption scheme for ensuring security of the selected digital content that is at least in part device dependent to the system and is acceptable for rendering by the system;

decoding at least part of the received ~~device-dependent~~ output data, at the system, for rendering at least part of the selected digital content by the system; and

subsequent to having decoded at least part of the ~~device-dependent~~ output data, the system is further configured for:

rendering, using the device that includes at least one of a display device, or a projection device, or an audio output device, **at least part of the decoded output data corresponding to** at least part of the selected digital content.

168. (Previously presented) The system of claim 167 in which the object includes a device identification information or an address related to the system, and the system is further configured for obtaining the object for delivering to the one or more servers, the obtaining of the object includes obtaining information from at least one of the following: (1) user input, (2) processing a device identification information at the system, (3) obtaining information from one or more devices that are distinct and separate devices from the system, (4) retrieving a parameter stored in the system, or (5) a default parameter or preference associated with the system, individually or in any combination.

169. (Previously presented) The system of claim 167 wherein the system includes at least one of a television system, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance, a speaker, or a digital camera, individually or in any combination.

170. (Previously presented) The system of claim 167 in which the system is embodied, at least in part, as an information apparatus, and the device is at least a speaker included in the information apparatus, and the device and the information

apparatus are wire connected, and wherein the interface of the system includes a voice activated command interface for interacting with the user.

171. (Currently amended) The system of claim 170 wherein the encryption scheme for ensuring security of the selected digital content includes security keys, and the system further enables operations for processing, at the system, the ~~device dependent~~ output data into a form, format, or language more suitable for rendering at the device, the processing including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system, over a network that includes the Internet, digital content that is acceptable for rendering at the output system, the output system including one or more devices, the digital content service system comprising:

one or more servers that are distinct and separate from the output system;

one or more processors included in the one or more servers;

one or more server applications executable, at least partly, by the one or more processors at the one or more servers to facilitate operations of the one or more servers;

memory or one or more storage units at the one or more servers configured to store at least part of the one or more server applications; wherein **execution of the one or more server applications by the one or more processors causes** the one or more servers ~~are operable~~ to:

receive, by the one or more servers and from the output system, security or authentication information associated with a user for authenticating the user to access the digital content service system, and, in dependence of a successful authentication, the one or more servers is further operable to:

receive, by the one or more servers and from the output system, device information relating to at least part of the output system that includes one or more devices;

receive, by the one or more servers and from the output system, a content

object, the content object including at least a pointer or reference to selected digital content, the selected digital content being related to a selection by the user from among one or more pointers or references to available digital content from the digital content service system, the one or more pointers or references provided, at least in part, to the output system by the one or more servers;

receive, by the one or more servers and from the output system, payment or subscription information to enable transmitting at least part of the selected digital content to the output system;

generating, by the one or more server applications, output data related, at least partly, to the selected digital content, the generating of the output data being after the one or more servers received the content object from the output system, and the generating of the output data being after the one or more servers received at least part of the payment or subscription information from the output system, and at least part of the generated output data has a relationship, at least in part, to the device information relating to the output system received by the one or more servers, and at least part of the generated output data includes (1) ~~a compression~~ **an encoding** operation applied on at least part of the selected digital content, and (2) an encryption scheme associated with one or more security keys applied on at least part of the selected digital content for ensuring security of the selected digital content; and

wherein the generated output data related, at least partly, to the selected digital content, is device dependent for rendering at the output system that includes one or more devices, and at least part of the output data is for transmitting to the output system, and

wherein the generated output data, related, at least partly, to the selected digital content, is acceptable for rendering at least part of the selected digital content at the output system that includes one or more devices, and the selected digital content includes at least one of audio digital content or video digital content, individually or in any combination.

173. (Previously presented) The system of claim 172 wherein the output system includes a client application, and the client application communicates with the one or

more servers over a network that includes the Internet for receiving at least part of the output data that is at least in part device dependent for rendering at the output system, and the client application is further operable for decoding at least part of the output data received from the one or more servers for rendering at least part of the selected digital content at the output system that includes one or more devices.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device or speaker and the output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system includes one or more devices for rendering at least part of the selected digital content, and the one or more devices includes at least one of a television, an output controller connectable to a television, a display device, a speaker, or an audio output device, individually or in any combination.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to the selected digital content, and the one or more server applications further retrieve, using the pointer or reference to the selected digital content, at least part of the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device at a server system, containing one or more server applications executable by one or more processors at one or more servers in the server system for transmitting device dependent output data acceptable for rendering at an output system, the output system including one or more devices, and the server system including one or more servers that are accessible by the one or more devices over a network that includes the Internet, the server system being distinct and separate from the one or more devices of the output system, the one or more server applications in the computer memory or

storage device, when executed by the one or more processors at the one or more servers , configures the server system to:

receive, by the server system from the output system, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system, the selection from among one or more pointers or references to available digital content at the server system there are provided, at least in part, to the output system by the server system;

receive, by the server system from the output system, one or more objects, the one or more objects having information related to the output system that includes the one or more devices;

receive, by the server system and from the output system, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system;

generate, by the server system, output data associated with at least part of the digital content, the output data having a relationship, at least in part, to the information included in the one or more objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital content for transmitting the output data that is associated with at least part of the digital content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content for rendering at the output system; and

transmit, by the server system to the output system over the network that includes the Internet, at least part of the output data that is associated with at least part of the digital content, the encryption scheme is applied to at least part of the digital content, and wherein the transmitting of at least part of the output data ~~being~~ **is** after the server system receives, from the output system, at least (i) the security or authentication

information, (ii) the one or more content objects, and (iii) the one or more objects from the output system; and

wherein the one or more devices of the output system include at least an information apparatus, and at least part of the transmitted output data being device dependent for rendering at least part of the digital content at the output system that includes the one or more devices ~~and the information apparatus~~.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Currently amended) The memory or storage device of claim 178 in which the information apparatus **included in the output system includes a display screen or a speaker for rendering digital content, and the information apparatus** further renders at least part of the output data at **[[**a**]]** **the** display screen or at **[[**a**]]** **the** speaker of the information apparatus.

180. (Currently amended) In a non-transitory computer memory or storage device at one or more servers or at an information apparatus, containing client software configured to be executable, at least partly, by one or more processors at the information apparatus for obtaining digital content from a digital content service operated, at least partly, over the Internet, the digital content obtained from the digital content service being encoded, at least partly, with an encryption scheme that is acceptable for rendering at one or more devices, the one or more devices includes the information apparatus,

the information apparatus including:

memory for storing at least part of the client software,

a display screen **or a speaker, individually or in any combination**, and

~~a graphical~~ **a** user interface ~~over the display screen~~ for interacting with a user, **the user interface includes at least one of a graphical user interface over the display screen or a voice activated command interface over the speaker, individually or in any combination**,

the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the digital content ~~includes video digital content or audio digital content~~ for rendering at the one or more devices,

wherein the client software, facilitated by the operating system, is executable, at least partly, by the one or more processors at the information apparatus to perform a method at the information apparatus, the method comprising:

establishing a communication channel between the information apparatus and the one or more servers over a network that includes the Internet, the one or more servers being distinct and separate devices from the information apparatus and the one or more devices, and the one or more servers is operated, at least partly, by the digital content service; and

sending, from the information apparatus to the one or more servers over the network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user to access the digital content service; and

obtaining, at the information apparatus, one or more device objects related to the one or more devices, the one or more device objects including device information related, at least in part, to at least one of device identification information, **device address information, device capability information,** model information, brand information, or registration information, individually or in any combination;

delivering, from the information apparatus, at least part of the one or more device objects to the one or more servers; and

providing, ~~over the graphical~~ **via the** user interface **[[**at**]]** ~~the display screen~~ **of the information apparatus**, one or more pointers or references to the digital content that are available from the digital content service for selection by the user of the information apparatus; and

receiving a selected digital content, via the ~~graphical~~ user interface **of the information apparatus** ~~at the display screen~~, from among the one or more pointers or references to the digital content provided over **either one of** the ~~graphical user interface at the~~ display screen **of the information apparatus or the speaker of the information**

apparatus; and

obtaining, at the information apparatus, a content object that includes a pointer or reference to the selected digital content; and

delivering, from the information apparatus, at least part of the content object to the one or more servers; and

receiving, from the one or more servers and at the information apparatus, output data that is device dependent for rendering at the one or more devices, the output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the device information included in the one or more device objects delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the received output data further including an encryption scheme applied on at least part of the selected digital content for ensuring security of the selected digital content; and

decoding, at the information apparatus, at least part of the received output data that is at least in part device dependent for rendering at the one or more devices, the output data includes an encryption scheme applied on at least part of the selected digital content; and

rendering at least part of the decoded output data related, at least in part, to the selected digital content at the one or more devices that includes the information apparatus.

181. (Previously presented) The non-transitory computer memory or storage device of claim 180 wherein the client application is facilitated by the operating system for installing the client application, at the information apparatus, for expanding the functionalities of the information apparatus.

182. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the encryption scheme for ensuring security of the selected digital content includes security keys.

183. (Previously presented) The non-transitory computer memory or storage

device of claim 181 in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, a speaker, a controller connectable to a television, or a digital camera, individually or in any combination.

184. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the one or more devices are either a projection device, a display screen, speaker, a controller connectable to a television, or a television, **individually or in any combination**, and wherein a connection between the information apparatus and the one or more devices includes a wired connection, and wherein the information apparatus further includes a voice activated command interface for interacting with the user, and the receiving of the selected digital content is via the voice activated command interface**; and wherein the selected digital content includes video digital content or audio digital content.**

185. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the display screen of the information apparatus includes a touch sensitive screen, and the receiving of the selected digital content is via the touch sensitive screen, and at least part of the selected digital content includes one or more of image data, graphics data, video data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the one or more devices include one or more of a television, a speaker, an audio output device, or an output controller connectable to a television, individually or in any combination, and the selected digital content includes video **digital** content or audio **digital** content for rendering at the television or at the speaker.

187. (Previously presented) The non-transitory computer memory or storage device of claim 180 further comprising software executable at the information apparatus

for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers, and the receiving of the output data for rendering at the one or more output devices is subsequent to having sent the payment or subscription information.

188. (Currently amended) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus**; and wherein the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination**.

189. (Currently amended) The memory or storage device of claim 177 in which the output system includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or to the projection device**; and wherein the digital content includes at least one of audio digital content or video digital content, individually or in any combination.**

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system include at least part of the digital content; and the server applications in the computer memory or storage device, when executed by the one or more processors at the server system, further enables the server system to store at least part of the received digital content at a server.

191. (Currently amended) The memory or storage device of claim 177 in which the one or more objects include device identification information, the device identification information including one or more of a device brand, a model, an identification number, a name, **an address, a device capability, a name,** a path, a

registration, or an IP address, individually or in any combination, and the device identification information is related to the output system or to the one or more devices of the output system.

192. (Currently amended) The system of claim 172 in which the device information associated with the output system includes information corresponding to at least one of device identification information, model information, **device address information, device capability information, device model information, device** brand information, registration information, or IP address information, individually or in any combination, associated with the one or more devices included in the output system.

193. (Previously presented) The system of claim 172 in which the output system includes one or more devices that is acceptable for rendering at least part of the selected digital content, the one or more devices includes an information apparatus that is at least one of an e-book, a smart phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

194. (Previously presented) The system of claim 167 in which the system includes a smart phone for receiving the device dependent output data, and the smart phone further enables operations for wirelessly delivering at least part of the selected digital content from the smart phone to an output controller associated with a television or speaker for rendering at least part of the selected digital content at the television or at the speaker.

195. (Previously presented) The system of claim 167 in which the system includes an information apparatus, and the information apparatus is connected to the device over a wireless network connection, a direct wireless connection, or a wired connection, individually or in any combination.

196. (Previously presented) The system of claim 167 in which the system is at least a controller that is wire connectable to a television using a wire communication interface, the controller is configured to receive the device dependent output data from the one or more servers, and the controller is configured to decode at least part of the device dependent output data related to at least part of the selected digital content, and the controller is further configured to transmit at least part of the decoded digital content to the television, via the wired communication interface, for rendering at least part of the selected digital content at the television.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, or a wireless network, individually or in any combination, and the establishing of the communication channel is subsequent to having sent the security or authentication information from the system to the one or more servers over the network.

198. (Previously presented) The system of claim 197 in which the system includes an information apparatus, and the information apparatus is at least one of a laptop computer, a desktop computer, a smart phone, an Internet pad, an Internet appliance, a speaker, or a digital camera, individually or in any combination, and the information apparatus is configured for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network, and the receiving of at least part of the device dependent output data is based, at least in part, on having sent the payment or subscription information from the system to the one or more servers over the network.

199. (Previously presented) The method of claim 161 in which the communication unit of the apparatus includes a wireless communication unit and the connection between the apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication unit of the apparatus.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated August 23, 2017

A Notice of Allowance was mailed on August 23, 2017 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Claims of Application

Because Applicant is filing a Request for Continued Examination, Applicant has taken the opportunity to amend the claims of the application to improve consistency and clarity. Applicant corrected some antecedence errors as well as improved readability of the claims. Applicant respectfully requests entry of the above claim amendments as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or representative of the assignee, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on November 22, 2017.

/Heidi Dutro/
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Respectfully submitted,

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(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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	2	20170249116		2017-08-31	Chang et al.	
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	Examiner Name	Esther Benoit Henderson
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	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

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That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-11-22
Name/Print	Peter D. Sabido	Registration Number	50353

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	2820	1	850	850
		Total in USD ($)		**850**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	31035168
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	22-NOV-2017
Filing Date:	18-NOV-2001
Time Stamp:	19:28:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$850

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

RAM confirmation Number	112417INTEFSW19294000
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	20171122_RCE_FXT312.pdf	1349855 cd488f5a6a5fa5039dec6793ed5a460a40a1dd881	no	3
Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20171122_Amendment_Accompanying_RCE_FXT312.pdf	187142 3f5c4575e75d3a4e72a13a646e74ac2430e5ee6	no	31
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20171122_IDS_FXT312.pdf	1034955 c9f86d3a5ea4607636dc8e4ce53a9146a8d2dde	no	4
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30894 3659ace4123167 1e6e6a5adbeea5d206fa7cd95	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2602846		

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 08/23/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 08/23/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	11/24/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 08/23/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	11/24/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2458	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 08/23/2017

EDWARD B. ANDERSON
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520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 08/23/2017

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2458	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *8/2/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 8/2/2017
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2458

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC					
Symbol				Type	Version
G06F		3	/ 126	F	2013-01-01
G06F		3	/ 1204	I	2013-01-01
G06F		3	/ 1247	I	2013-01-01
G06F		3	/ 1288	I	2013-01-01
G06F		3	/ 1292	I	2013-01-01
G06Q		20	/ 102	I	2013-01-01
G06Q		40	/ 00	I	2013-01-01
H04L		12	/ 2805	I	2013-01-01
H04L		12	/ 2809	A	2013-01-01
H04L		12	/ 2812	I	2013-01-01
H04L		12	/ 2834	A	2013-01-01
H04L		12	/ 2838	A	2013-01-01
H04L		2012	/ 2849	A	2013-01-01
H04L		2012	/ 285	A	2013-01-01
H04L		67	/ 16	A	2013-01-01
H04L		67	/ 2823	I	2013-01-01
H04L		67	/ 303	I	2013-01-01
H04L		67	/ 2828	I	2013-01-01
H04L		67	/ 04	A	2013-01-01
H04L		67	/ 28	I	2013-01-01

CPC Combination Sets							
Symbol				Type	Set	Ranking	Version
			/				
			/				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	8/17/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20170817

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
709	217	G 0 6 F 15 / 16 (2006.01.01)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	8/17/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20170817

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		28		55		82		109	6	136	33	163	60	190
	2		29		56		83		110	7	137	34	164	61	191
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	6		33		60		87		114	11	141	38	168	65	195
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	23		50		77		104	1	131	28	158	55	185		
	24		51		78		105	2	132	29	159	56	186		
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	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	8/17/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

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Part of Paper No. 20170817

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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	3	÷	.	.	.	.	.	.	.	.
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	9	÷	.	.	.	.	.	.	.	.
	10	÷	.	.	.	.	.	.	.	.
	11	÷	✓	.	.	.	.	.	.	.
	12	÷	✓	.	.	.	.	.	.	.
	13	÷	✓	.	.	.	.	.	.	.
	14	÷	✓	.	.	.	.	.	.	.
	15	÷	✓	.	.	.	.	.	.	.
	16	÷	✓	.	.	.	.	.	.	.
	17	÷	✓	.	.	.	.	.	.	.
	18	÷	✓	.	.	.	.	.	.	.
	19	÷	✓	.	.	.	.	.	.	.
	20	÷	✓	.	.	.	.	.	.	.
	21	÷	✓	.	.	.	.	.	.	.
	22	÷	✓	.	.	.	.	.	.	.
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	24	÷	.	.	.	.	.	.	.	.
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	26	÷	.	.	.	.	.	.	.	.
	27	÷	.	.	.	.	.	.	.	.
	28	÷	.	.	.	.	.	.	.	.
	29	÷	.	.	.	.	.	.	.	.
	30	÷	.	.	.	.	.	.	.	.
	31	÷	.	.	.	.	.	.	.	.
	32	÷	✓	.	.	.	.	.	.	.
	33	÷	✓	.	.	.	.	.	.	.
	34	÷	✓	.	.	.	.	.	.	.
	35	÷	✓	.	.	.	.	.	.	.
	36	÷	✓	.	.	.	.	.	.	.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

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=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	08/17/2017
	37	÷	✓	.	.	.	.	.	.	.
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	39	÷	✓	.	.	.	.	.	.	.
	40	÷	✓	.	.	.	.	.	.	.
	41	÷	✓	.	.	.	.	.	.	.
	42	÷	✓	.	.	.	.	.	.	.
	43	÷	✓	.	.	.	.	.	.	.
	44	÷	✓	.	.	.	.	.	.	.
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	47	÷	✓	.	.	.	.	.	.	.
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	51	÷	✓	.	.	.	.	.	.	.
	52	÷	✓	.	.	.	.	.	.	.
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	57	÷	✓	.	.	.	.	.	.	.
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	59	÷	.	.	.	.	.	.	.	.
	60	÷	.	.	.	.	.	.	.	.
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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	108			-	-	-	-	-	-	-

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CLAIM		DATE								
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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22	152			✓	✓	✓	✓	✓	=	=
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25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
27	157			✓	✓	✓	✓	✓	=	=
28	158			✓	✓	✓	✓	✓	=	=
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42	172			✓	✓	✓	✓	✓	=	=
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44	174			✓	✓	✓	✓	✓	=	=
45	175			✓	✓	✓	✓	✓	=	=
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50	180			✓	✓	✓	✓	✓	=	=

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54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
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63	193			✓	✓	✓	✓	✓	=	=
64	194			✓	✓	✓	✓	✓	=	=
65	195			✓	✓	✓	✓	✓	=	=
66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC- SEARCHED		
Symbol	Date	Examiner
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and (pointer or reference)	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	9/22/2015	EBH
Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH
Update Search	8/17/2017	EBH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

SEARCH NOTES

Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB
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Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH
Update Search	4/29/2017	EBH
Update Search	8/17/2017	EBH

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH
	See Interference Search History	5/29/2015	EBH
	See Interference Search History	9/22/2015	EBH
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	See Interference Search History	4/29/2017	EBH
	See Interference Search History	8/17/2017	EBH

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Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6725281		2004-04-20	Zintel et al.	
	2	9116723		2015-08-25	Chang et al.	

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	1	20170185376		2017-06-29	Chang et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 11/933,031, June 26, 2017, 28 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/ESTHER B HENDERSON/ (08/17/2017)	Date Considered	08/17/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
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Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-08-02
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S232	114	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT	WITH	ON	2017/08/17 15:33
S233	211	(select$2 near (pointer or reference) near (user)).clm.	US-PGPUB; USPAT	WITH	ON	2017/08/17 15:33
S234	2	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT	WITH	ON	2017/08/17 15:36
S235	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT	WITH	ON	2017/08/17 15:36
S236	114	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT	WITH	ON	2017/08/17 15:37

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S223	256	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2 (payment or subscription))	US-PGPUB; USPAT	WITH	ON	2017/08/17 14:43
S224	145	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	US-PGPUB; USPAT	WITH	ON	2017/08/17 14:44
S225	36	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/08/17 15:21
S226	35	((select$4 or choos$4) near (pointer or reference)) near (user or client) near2 (list or table)	US-PGPUB; USPAT	WITH	ON	2017/08/17 15:27
S227	217	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/08/17 15:34
S228	21	"101"/$3.ccls. and (television printer)	US-PGPUB; USPAT; USOCR	WITH	ON	2017/08/17 15:35
S229	230	(television printer audio video image) not S228	US-PGPUB; USPAT; USOCR	WITH	ON	2017/08/17 15:35
S230	92	(television same printer) not (S228 or S229) and (wireless near2 print$4) and (pointer)	US-PGPUB; USPAT; USOCR	WITH	ON	2017/08/17 15:35
S231	217	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/08/17 15:37

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PTO/SB/30EFS (07-14)
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2458
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit Henderson		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☐ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No _____

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-08-02
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: August 2, 2017

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 3
Amendments to the Drawings	None
Remarks	Begin on page 30

AMENDMENTS TO THE SPECIFICATION

Please amend the current abstract as shown below. Material to be deleted is in ~~strikeout~~. Material to be inserted is in **bold and underline**

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content to information apparatus or output devices are herein disclosed and enabled. The protected digital content is encrypted and device dependent or specific for rendering at a limited number of devices including smart phones, information pads, audio players, media controllers, televisions, etc. To illustrate, an information apparatus may include an application for accessing selected digital content from a subscribed content service or store over the Internet. To access digital content, a client application may send, to the content service or store, authentication information, payment or subscription information, and/or a reference to selected digital content. The service then generates encrypted device dependent output data associated with a device or identification previously registered with the service for transmitting or streaming, to the information apparatus or output devices (e.g., televisions, speakers, media controllers etc.), the digital content for rendering.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus or device for rendering, the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination, the digital content service including**:** [[,]]

one or more servers for providing, to the information apparatus or the device**,** the digital content, the one or more servers being distinct and separate from the information apparatus and the device, and

one or more server applications executable at the one or more servers for managing at least part of the digital content service, the digital content service method comprising:

receiving, from the information apparatus or the device[[,]] **and** by the one or more servers, security or authentication information associated with a user operating the information apparatus or the device for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus or the device[[,]] **and** by the one or more servers, payment or subscription information associated with the user for accessing [[the]] one or more digital content **that are** available at the one or more servers operated, at least in part, by the digital content service;

receiving, at the one or more servers, [[an]] **a device** object from the information apparatus or the device over the network that includes the Internet, the **device** object including device information related to one or more devices, and the device information

corresponding to at least one of device identification information, model information, brand information, or registration information, individually or in any combination, **and** the one or more devices include the information apparatus or the device;

providing, to the information apparatus or the device[[,]] **and** by the one or more servers, one or more pointers or references to at least part of the one or more digital content available at the one or more servers for selection by the user at the information apparatus or the device;

receiving, at the one or more servers **and from the information apparatus or the device**, **at least** a pointer or reference to selected digital content from among the one or more pointers or references provided, by the one or more servers, to the information apparatus or the device;

retrieving, by the one or more server applications, at least part of the selected digital content from the one or more servers employing, at least in part, the pointer or reference to the selected digital content received from the information apparatus or the device;

generating output data, at the one or more servers [[with]] **using** the one or more server applications, the output data being related to at least part of the selected digital content, and the generating of the output data including:

applying, by the one or more server applications, ~~a compression~~ an **encoding** operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content**, and wherein, subsequent to applying the encoding operation and the encryption scheme on at least part of the selected digital content, the selected digital content is, at least in part, device dependent for rendering at the one or more devices**; and

transmitting, by the one or more servers, at least part of the generated output data to the information apparatus or the device for rendering at least part of the selected digital content at the information apparatus or the device; and

wherein the generated output data is, at least in part, device dependent ~~for rendering at~~ **to** the one or more devices, and the generated output data having a

relationship, at least in part, to the device information included in the **device** object and received by the one or more servers from the information apparatus or the device over the network that includes the Internet, and wherein **the** transmitting of at least part of the generated output data by the one or more servers to the information apparatus or the device is subsequent to having received the security or authentication information associated with the user operating the information apparatus or the device**, and the transmitting of at least part of the generated output data is based, at least in part, on having received, from the information apparatus or the device, the payment or subscription information**.

132. (Currently amended) The method of claim 131 further comprising,

providing, by a client application **at the information apparatus or the device and** over a graphical user interface at a display screen of the information apparatus or the device, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application **at the information apparatus or the device**, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content **that are available at the one or more servers**; and

obtaining, by the client application **at the information apparatus or the device**, a content object that includes a pointer or reference to the selected digital content **from among the one or more pointers or references**.

133. (Currently amended) The method of claim 131 in which the information apparatus [[and]] **or** the device are part of an output system**, the output system** ~~that~~ includes a television **or a controller connectable to a television** for rendering or playing **at least part of** the selected digital content at the television.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the output data.

135. (Currently amended) The method of claim 131 in which the ~~device is~~ **one or more devices include** an output device that is at least one of a television, an output controller **wire** connectable with a television, an audio output device, a sound output device, a music output device, or a projection device, individually or in any combination, **and wherein the output device is wire connectable to the information apparatus or the device.**

136. (Currently amended) The method of claim [[131]] **132,** further comprising:

receiving, by [[a]] **the** client application at the information apparatus or the device, at least part of the output data from the one or more servers; and

decoding, by the client application at the information apparatus or the device, at least part of the output data received from the one or more servers for rendering of at least part of the selected digital content.

137. (Currently amended) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of [[a]] an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information was previously received from the user by the digital content service, and the payment or subscription information is provided automatically when the digital content service is accessed by the information apparatus or the device.

139. (Previously presented) The method of claim 131 in which the payment or subscription information is provided through the information apparatus or the device as entered by a user in response to a prompt to enter payment or subscription information.

140. (Previously presented) The method of claim 138 in which the payment information includes service subscriber information corresponding to a pre-arranged

subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Currently amended) The method of claim [[131]] **134** wherein the generated output data, corresponding to at least part of the selected digital content, is **at least in part** device dependent for rendering or output or playing at the one or more devices that include the information apparatus or the device, **and at least part of the selected digital content includes an encryption scheme for ensuring security of the selected digital content, and wherein the method further comprises:**

decoding, by the client application at the information apparatus or at the device, at least part of the selected digital content, using, at least in part, the output data received from the one or more servers; and

rendering, by the client application at the information apparatus or at the device, at least part of the selected digital content that has been decoded.

142. (Currently amended) The method of claim [[131]] **137** in which **at least one device of the one or more devices** ~~the device, which is associated with the information apparatus,~~ is an output device, and the output device includes at least one of a display device, a television, an audio output device, **a speaker,** or a music output device, individually or in any combination, and wherein the output device is ~~either wire connected to the information apparatus or~~ wirelessly connected **or connectable** to the information apparatus **or the device**.

143. (Currently amended) The method of claim 131 further comprising establishing a communication channel between the information apparatus or the device and the one or more server applications, the communication channel including one or more of an Internet, a local area network, **a wireless local area network,** a cellular network, [[and]] **or** a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the device is at

least one of the following, individually or in any combination:

(1) an audio output device and wherein the output data includes audio data;

(2) a display device or a projection device and wherein the output data includes video data; or

(3) a television and wherein the output data includes audio data and video data.

145. (Currently amended) The method of claim 131 further comprising a client application that is installable ~~by the user~~ at the information apparatus or the device, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data corresponding to at least part of the **selected** digital content.

146. (Currently amended) The method of claim 145 in which the device or the information apparatus decodes and decompresses, using the client application, at least part of the output data that is, at least in part, device dependent **to the device or the information apparatus**, for rendering at least part of the selected digital content.

147. (Currently amended) The method of claim 131 in which generating at least part of the output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, [[and]] **or** involving one or more applications.

148. (Currently amended) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon **or function control,** and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein ~~upon~~ execution of at least part of the client application by the processor at the information apparatus[[,]] **configures** the information apparatus ~~is operable~~ for:

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

delivering, from the information apparatus, one or more device objects to the one or more servers over a network, the one or more device objects related to one or more devices**, the one or more devices** for outputting or playing digital content **that are received from the digital content service, and the one or more devices being distinct and separate devices from the one or more servers,** and the one or more device objects including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination**, related to the one or more devices**;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, ~~by the information apparatus and from a user of the information apparatus~~ via the graphical user interface over the touch sensitive screen **of the information apparatus**, information associated with selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus **to the one or more servers**, at least a pointer or reference to the selected digital content;

receiving, at the information apparatus and from the one or more servers, ~~device dependent~~ output data corresponding to at least part of the selected digital content, ~~at least part of~~ the ~~device dependent~~ output data ~~received from the one or more servers~~ is related, at least in part, to the information included in the one or more device objects delivered from the information apparatus **to the one or more servers**, and the ~~device dependent~~ output data, corresponding to at least part of the selected digital content, is **at least in part** device dependent with respect to the one or more devices for output or playing at least part of the **selected** digital content; and

wherein the receiving of the device dependent output data is subsequent to having sent, from the information apparatus to the one or more servers, the security or authentication information associated with the user, and the receiving of the device dependent output data is further subsequent to having sent, from the information apparatus to the one or more servers, the payment or subscription information. ~~; and~~

149. (Currently amended) The apparatus of claim 148 wherein the one or more devices include **at least** the information apparatus, and the information apparatus is further operable for:

decoding, at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering or outputting or playing of at least part of the selected digital content; and

rendering or outputting or playing at least part of the **selected digital content corresponding to the decoded** device dependent output data **at the one or more devices**.

150. (Currently amended) The apparatus of claim [[148]] **149** in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, **or** [[and]] a wide area network, individually or in any combination.

151. (Currently amended) The apparatus of claim [[148]] **150** further comprising

transmitting at least part of the device dependent **received** output data **or decoded output data from the information apparatus** to an output device or device for rendering, the output device or device including one or more of a display device, a projection device, a television device, an audio output device, **a speaker, or** [[and]] an output controller wire connected to a television, individually or in any combination.

152. (Currently amended) The apparatus of claim 151 wherein the information apparatus is further operable for discovering an output device or device as ~~one of one or more output devices or devices that are discovered by the information apparatus as~~ being available for rendering at least part of the selected digital content; and wherein one or more device objects **are** related to the one or more output devices **and** include the discovered output device or device**, and the output device or device is a distinct device from the information apparatus**.

153. (Currently amended) The apparatus of claim 148 in which the information apparatus further includes one or more wireless communication units, and [[a]] communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units included [[at]] **in** the information apparatus.

154. (Currently amended) The apparatus of claim [[148]] **153** wherein the **client application of the** information apparatus [[is]] further **configures the information apparatus** ~~operable~~ for:

providing, by the client application over [[a]] **the** graphical user interface [[at]] **on** the ~~display~~ **touch sensitive** screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, selected digital content**,** over the graphical user interface [[at]] **on** the ~~display~~ **touch sensitive** screen of the information apparatus**,** from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application**; and**

delivering, by the client application, the generated content object from the information apparatus to the one or more servers.

155. (Previously presented) The apparatus of claim 154 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Currently amended) The apparatus of claim [[148]] **153** in which the information apparatus is at least one of a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, **an audio output device, or** ~~and~~ a digital camera, individually or in any combination.

157. (Currently amended) A method for accessing digital content, by an apparatus over a network that includes the Internet, the apparatus including a communication unit, one or more processors, an operating system, and one or more client applications facilitated by the operating system and executable by the one or more processors for providing one or more functionalities of the apparatus, the method comprising:

establishing, using the communication unit, a connection between the apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the apparatus**, and the one or more servers operated, at least partly, by a digital content service that is accessible, at least in part, by the apparatus over the Internet**; and subsequent to establishing, using the communication unit, the connection between the apparatus and the one or more servers, the method further comprises:

receiving, at the apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the apparatus **from the digital content service**;

delivering, from the apparatus to the one or more servers, at least a pointer or reference to [[the]] **selected** digital content, the pointer or the reference to the **selected** digital content being related to a selection by the user, at the apparatus, from among the

one or more pointers or references **to the digital content accessible by the apparatus from the digital content service, the one or more pointers or references** provided, at least in part, to the apparatus by the one or more servers;

delivering, from the apparatus, one or more **device** objects to the one or more servers, the one or more **device** objects including information corresponding to one or more devices **that are distinct and separate devices from the one or more servers**, and the information including at least one of device identification information, model information, brand information, or registration information, individually or in any combination**, related to the one or more devices**;

sending, from the apparatus to the one or more servers over the network, security or authentication information associated with a user operating the apparatus, and, in dependence of a successful authentication of the user, enabling the user access to [[a]] **the** digital content service; and

receiving, at the apparatus, from the one or more servers operated, at least partly, by the digital content service, ~~device-dependent~~ output data**, the output data** corresponding to the **selected** digital content **and** having a relationship, at least in part, to the one or more **device** objects delivered from the apparatus to the one or more servers over the network that includes the Internet, and the ~~device-dependent~~ output data corresponding to the **selected** digital content further including an encryption scheme for ensuring security of the **selected** digital content for rendering[[,]] at the one or more devices, **and** at least part of the ~~device-dependent~~ output data **is device dependent for rendering at least part of the selected digital content at the one or more devices**.

158. (Currently amended) The method of claim 157 further comprising:

establishing a **communication** connection between the apparatus and **an output device that is at least one** of a television**,** [[or]] an output controller connected to a television**, an audio output device, or a speaker, individually or in any combination**; and

transmitting, by the apparatus, at least part of the **selected** digital content over the **communication** connection for rendering ~~of the~~ at least part of the **selected** digital

content at the **output device** ~~television~~.

159. (Currently amended) The method of claim 157 in which the apparatus is at least one of ~~a palmtop computer,~~ a desktop computer, ~~a networked computer, a handheld computer,~~ a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, **a speaker, or** ~~and~~ a digital camera, individually or in any combination.

160. (Currently amended) The method of claim 157 further comprising sending payment or subscription information from the apparatus to the one or more servers over the network as payment or subscription for **accessing the** digital content service**, and, subsequent to having sent the payment or subscription information to the one or more servers, the apparatus receives the output data corresponding, at least in part, to the selected digital content from the one or more servers operated, at least partly, by the digital content service.**

161. (Currently amended) The method of claim [[157]] **160** in which the apparatus includes an output device that is a display screen or **a** speaker for rendering or outputting at least part of the **selected** digital content received from the one or more servers, and wherein **the output data is at least in part device dependent for rendering at** the one or more devices **that** include the apparatus**, and wherein delivering of the one or more device objects from the apparatus to the one or more servers is for authorizing the one or more devices for rendering the selected digital content**.

162. (Currently amended) The method of claim 157 wherein the method further comprises delivering, from the apparatus, one or more content objects to the one or more servers, the one or more content objects include ~~at least part of the~~ digital content for storing at the one or more servers**, and wherein, subsequent to storing the digital content at the one or more servers, the method further comprises receiving, at the apparatus, output data related, at least part, to the digital content stored at the**

one or more servers, the received digital content being previously delivered by the apparatus for storing by the apparatus at the one or more servers, and the received digital content that was previously stored by the apparatus not including the encryption scheme applied to the selected digital content.

163. (Currently amended) The method of claim 157 in which the apparatus is part of an output system that includes a television **or a speaker, individually or in any combination**, and at least part of the output system is operable for accessing the digital content service over the Internet, **and wherein the apparatus further includes a voice activated command interface for interacting with the user for accessing at least part of the selected digital content from the digital content service**.

164. (Currently amended) The method of claim 157 in which the apparatus is wired or wirelessly connected to a television for rendering at least part of the **selected** digital content **at the television, and the method further comprises decoding at least part of the output data corresponding to at least part of the selected digital content at the apparatus for rendering at the television**.

165. (Currently amended) The method of claim 157 in which the apparatus includes a ~~network~~ communication **interface** ~~unit~~ and the method further **comprises** ~~comprising~~ the apparatus establishing a wired or wireless connection, via the ~~network~~ communication **interface** ~~unit~~, with a device that includes at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the **selected** digital content over the wired or wireless connection for rendering **at the device**~~, and wherein the one or more devices include the apparatus or the device~~.

166. (Currently amended) The method of claim [[165]] **157,** further comprising decoding or decompressing at least part of the ~~device dependent~~ output data corresponding to at least part of the **selected** digital content at the apparatus for rendering**, and wherein the encryption scheme included with the output data**

corresponding to the selected digital content includes security keys for ensuring security of the selected digital content.

167. (Currently amended) A system for accessing **a** digital content service over a network and for receiving device dependent output data from one or more servers over the network for rendering, **the one or more servers being distinct and separate devices from the system, and the one or more servers operated, at least partly, by the digital content service**, the **received** device dependent output data corresponding to at least part of digital content that is acceptable for rendering at the system, the system comprising:

a processor;

a device that is at least one of a display device, or a projection device, or an audio output device, for rendering at least part of the device dependent output data;

~~a display screen or projection medium;~~

an operating system;

a client application having ~~a graphical user~~ **an** interface ~~over the display screen or projection medium~~ for interacting with a user of the system, the client application facilitated, at least partly, by the operating system included in the system;

wherein[[,]] the system is ~~operable~~ **configured** for:

establishing a communication channel between the system and the one or more servers over the network **for accessing the digital content service**;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content **that are** stored in a content server**, the content server operated, at least partly, by the digital content service,** for selection by the user;

providing, by the client application and via the ~~graphical user~~ interface ~~over the display screen or projection medium~~, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, ~~from a user of~~ **at** the system via the ~~graphical user~~ interface, selected digital content from among the one or more pointers or references to the one or more digital content provided for selection, **the selected digital content includes at least**

one of video digital content or audio digital content, individually or in any combination;

delivering, from the system, at least part of a content object to the one or more servers over the network, ~~the one or more servers being distinct and separate devices from the system,~~ the content object including **at least a** [[the]] pointer or reference to the selected digital content;

delivering, by the system, at least part of an object to the one or more servers over the network, ~~the one or more servers being distinct and separate devices from the system,~~ the object including information related to at least part of the system;

sending, from the system to the one or more servers over the network, security or authentication information associated with the user of the system for authentication of the user **for accessing the digital content service**;

sending, from the system to the one or more servers, payment or subscription information for accessing the digital content service ~~provided by the one or more servers~~;

receiving, at the system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content **corresponding, at least in part, to the content object delivered from the system to the one or more servers,** and **the device dependent output data** having a relationship, at least in part, to the information included in the object delivered from the system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is **at least in part** device dependent ~~and is acceptable~~ to the system **and is acceptable** for rendering **by the system**;

decoding at least part of the **received** device dependent output data**,** at the system**,** for rendering at least part of the selected digital content by the system; **and**

subsequent to having decoded at least part of the device dependent output data, the system is further ~~operable~~ **configured for:**

rendering**,** [[by]] **using the device that includes** at least one of a display device, or a projection device, or an audio output device ~~included in the system~~, at least part of the selected digital content ~~that includes, at least in part, video or audio content~~.

168. (Currently amended) The system of claim 167 in which the object includes a device identification information or an address **related to the system**, and the system is further ~~operable~~ **configured** for obtaining [[an]] **the object for delivering to the one or more servers**, the obtaining of the object includes obtaining information from at least one of the following: (1) user input, (2) ~~a communication with~~ **processing** a device **identification information at the system**, (3) obtaining information from one or more devices **that are distinct and separate devices from the system**, (4) retrieving a parameter stored in the system, or (5) a default parameter or preference associated with the system, individually or in any combination.

169. (Currently amended) The system of claim 167 wherein the system includes at least one of a television system, ~~an output controller connected to a television,~~ a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance, **a speaker,** or a digital camera, individually or in any combination.

170. (Currently amended) The system of claim 167 in which the system ~~includes~~ **is embodied, at least in part, as** an information apparatus**, and the device is at least a speaker included in the information apparatus**, and the device and the information apparatus are wire connected**, and** wherein **the interface of the system includes a voice activated command interface for interacting with the user**.

171. (Currently amended) The system of claim [[167]] **170** wherein ~~the system includes an information apparatus~~ **the encryption scheme for ensuring security of the selected digital content includes security keys,** and the system further enables operations for ~~conforming~~ **processing**, at the **system** ~~information apparatus~~, the device dependent output data into a form, format, or language more suitable for rendering at [[a]] **the** device, the ~~conforming~~ **processing** including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system, over a network that includes the Internet, digital content that is acceptable for rendering at the output system, the output system including one or more devices, the digital content service system comprising:

one or more servers that are distinct and separate from the output system;

one or more processors included in the one or more servers;

one or more server applications executable, at least partly, by the one or more processors at [[on]] the one or more servers to facilitate operations of the one or more servers;

~~one or more~~ memory or **one or more** storage units at the one or more servers configured to store at least part of the one or more server applications; wherein the one or more servers are operable to:

receive, **by the one or more servers and** from the output system, security or authentication information associated with a user for **authenticating the user to access the digital content service system** ~~authentication of the user~~**, and, in dependence of a successful authentication, the one or more servers is further operable to:** [[;]]

receive, **by the one or more servers and** from the output system, device information relating to at least part of the output system that includes one or more devices;

receive, **by the one or more servers and** from the output system, a content object, the content object including at least a pointer or reference to selected digital content, the ~~pointer or the reference~~ **selected digital content** being related to a selection by [[a]] **the** user from among one or more pointers or references to **available** digital content **from the digital content service system, the one or more pointers or references** provided, at least in part, to the output system by the one or more servers;

receive, **by the one or more servers and** from the output system, payment or subscription information to enable transmitting at least part of the selected digital content to the output system;

generating ~~obtaining~~, by the one or more server applications, output data

related, at least partly, to the selected digital content, the **generating** ~~obtaining~~ of the output data being after **the one or more servers** ~~having~~ received the content object **from the output system,** and **the generating of the output data being after the one or more servers received** at least **part of** the payment or subscription information **from the output system**, **and** at least part of the **generated** output data has a relationship, at least in part, to the device information relating to the output system received by the one or more servers, and at least part of the **generated** output data includes (1) a compression operation applied on at least part of the selected digital content, and (2) an encryption scheme associated with one or more security keys applied on at least part of the selected digital content for ensuring security of the selected digital content; and

wherein the **generated** output data related, at least partly, to the selected digital content, is device dependent for rendering at the output system that includes one or more devices, and at least part of the output data is for transmitting to the output system, and

wherein the ~~device-dependent~~ **generated** output data, related, at least partly, to the selected digital content, is acceptable for rendering at least part of the selected digital content at the output system **that includes one or more devices**, **and** the selected digital content includes at least one of audio digital content or video digital content, individually or in any combination.

173. (Currently amended) The system of claim 172 wherein the output system includes a client application, and the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data that is **at least in part** device dependent for rendering at the output system, and the client application is further operable for decoding at least part of the output data received from the one or more servers for rendering **at least part of the selected digital content** at the output system **that includes one or more devices**.

174. (Currently amended) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio

output device **or speaker** and the ~~device dependent~~ output data includes audio data.

175. (Currently amended) The system of claim 172 in which the output system **includes one or more devices for rendering at least part of the selected digital content,** ~~is a television system, and the television system~~ **and the one or more devices** includes at least one of a television, an output controller connectable to a television, a display device, **a speaker,** or an audio output device, individually or in any combination.

176. (Currently amended) The system of claim 172 in which the content object received from the output system includes a pointer or reference to **the** selected digital content, and the one or more server applications further retrieve**, using the pointer or reference to the selected digital content,** at least part of the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device at a server system, containing one or more server applications executable by one or more processors at one or more servers in the server system for transmitting device dependent output data acceptable for rendering at an output system, the output system including one or more devices, and the server system including one or more servers that are accessible by the one or more devices over a network that includes the Internet, the server system being distinct and separate from the one or more devices of the output system, the one or more server applications in the computer memory or storage device, when executed by the one or more processors at the **one or more servers** ~~server system~~, configures the server system to:

receive, by the server system from the output system, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system**, the selection** from among one or more pointers or references **to available digital content at the server system there are** provided, at least in part, to the output system

by the server system;

receive, by the server system from the output system, one or more objects, the one or more objects having information related to the output system that includes **the** one or more devices; ~~and~~

receive, by the server system and from the output system, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system;

generate, by the server system, [[the]] output data associated with at least part of the digital content, the output data having a relationship, at least in part, to the information included in the one or more objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital content for transmitting the output data **that is** associated with at least part of the digital content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content for rendering at the output system; and

transmit, by the server system **to the output system over the network that includes the Internet**, at least part of the output data **that is** associated with at least part of the digital content**,** ~~that includes~~ the encryption scheme **is** applied **to at least part of the digital content**, ~~to the output system over the network that includes the Internet~~ **and wherein the transmitting of at least part of the output data being** after **the server system receives,** ~~having received~~ **from the output system,** at least **(i)** the security or authentication information, **(ii)** the one or more content objects, and **(iii)** the one or more objects from the output system; and

wherein the one or more devices of the output system include at least an information apparatus, and at least part of the transmitted output data being device dependent for rendering at least part of the digital content at the output system that includes the one or more devices **and the information apparatus**.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Currently amended) The memory or storage device of claim [[177]] **178** in which the ~~output system that includes an~~ information apparatus further renders at least part of the output data at [[the]] **a** display screen **or at a speaker** of the information apparatus.

180. (Currently amended) In a non-transitory computer memory or storage device at one or more servers or at an information apparatus, containing client software configured to be executable, at least partly, by one or more processors at the information apparatus for obtaining digital content from a digital content service operated, at least partly, over the Internet, the ~~obtained~~ digital content **obtained from the digital content service** being ~~at least partly~~ encoded**, at least partly,** with an encryption scheme that is acceptable for rendering at one or more devices, **the one or more devices includes the information apparatus,**

the information apparatus including **memory for storing at least part of the client software, a display screen, and** a graphical user interface over [[a]] **the** display screen for interacting with a user,

the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the digital content includes video **digital** content or audio **digital** content for rendering **at the one or more devices**,

wherein ~~the computer memory or storage device containing~~ the client software, facilitated by the operating system, is executable, at least partly, by the one or more processors at the information apparatus to perform a method at the information apparatus, **the method** comprising:

establishing a communication channel between the information apparatus and **the** one or more servers over a network that includes the Internet, the one or more servers being distinct and separate ~~device~~ **devices** from the information apparatus and

the one or more devices**, and the one or more servers is operated, at least partly, by the digital content service**; and

sending, from the information apparatus to the one or more servers over [[a]] **the** network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user **to access the digital content service**; and

obtaining, at the information apparatus, one or more **device** objects related to the one or more devices, the one or more **device** objects including device information related, at least in part, to at least one of device identification information, model information, brand information, or registration information, individually or in any combination;

delivering, from the information apparatus, at least part of the one or more device objects to the one or more servers; and

providing, over the graphical user interface at the display screen, one or more pointers or references to the digital content **that are available from the digital content service** for selection by [[a]] **the** user of the information apparatus; and

receiving **a** selected digital content ~~from the user of the information apparatus~~, via the graphical user interface **at the display screen**, ~~and~~ from among the one or more pointers or references to the digital content **provided over the graphical user interface at the display screen**; and

obtaining, at the information apparatus, a content object that includes a pointer or reference to the selected digital content; and

delivering, from the information apparatus, at least part of the content object ~~and at least part of the one or more objects~~ to the one or more servers; and

receiving, **from the one or more servers and** at the information apparatus, ~~device dependent~~ output data **that is device dependent for rendering at the one or more devices**, the ~~device dependent~~ output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the device information included in the one or more **device** objects delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the ~~device dependent~~ **received** output data further including an encryption scheme

applied on at least part of the selected digital content for ensuring security of the selected digital content; and

decoding, at the information apparatus, at least part of the **received** ~~device dependent~~ output data **that is at least in part device dependent for rendering at the one or more devices,** ~~that~~ **the output data** includes an encryption scheme **applied on at least part of the selected digital content** ~~received from the one or more servers~~; and

rendering at least part of the decoded ~~device dependent~~ output data related, at least in part, to the selected digital content at the one or more devices **that includes the information apparatus**.

181. (Currently amended) The non-transitory computer memory or storage device of claim 180 wherein the client application is facilitated by the operating system for installing the client application, ~~by the user~~ at the information apparatus, for expanding the functionalities of the information apparatus.

182. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the **encryption scheme for ensuring security of the selected digital content includes security keys.** ~~at least one device of the one or more devices is associated with the information apparatus, and the at least one device is at least one of a display device or an audio output device that is wire connected to the information apparatus.~~

183. (Currently amended) The non-transitory computer memory or storage device of claim [[180]] **181** in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, **a speaker, a controller connectable to a television,** or a digital camera, individually or in any combination.

184. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the one or more devices are either a projection device, a

display screen, **speaker, a controller connectable to a television,** or a television, ~~and the device dependent output data includes video data or audio data,~~ and wherein a connection between the information apparatus and the ~~device~~ **one or more devices** includes a wired connection**, and wherein the information apparatus further includes a voice activated command interface for interacting with the user, and the receiving of the selected digital content is via the voice activated command interface**.

185. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which **the display screen of the** information apparatus includes a touch sensitive screen**, and the receiving of the selected digital content is via the touch sensitive screen**, and **at least part of the selected digital content** ~~the device dependent output data~~ includes one or more of image data, graphics data, video data, ~~audio data,~~ and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the one or more devices include one or more of a television, **a speaker, an audio output device,** or an output controller connectable to a television, **individually or in any combination,** and the selected digital content includes video content or audio content for rendering at the television **or at the speaker**.

187. (Currently amended) The non-transitory computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers**, and the receiving of the output data for rendering at the one or more output devices is subsequent to having sent the payment or subscription information**.

188. (Previously presented) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus.

189. (Currently amended) The memory or storage device of claim 177 in which the output system includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or **to** the projection device.

190. (Currently amended) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system include at least part of the digital content**;** and the server applications in the computer memory or storage device**,** when executed by the **one or more processors** ~~processor~~ at the server system**,** **further** enables the server system to store at least part of the received digital content at a server.

191. (Currently amended) The memory or storage device of claim 177 in which the one or more objects include **device** identification **information**, ~~a pointer, or a reference,~~ the **device** identification **information** including one or more of a device brand, a model, **an identification number,** a name, a path, a registration, **or** [[and]] an IP address, individually or in any combination**, and the device identification information is related to the output system or to the one or more devices of the output system**.

192. (Currently amended) The system of claim 172 in which the **device** information associated with the output system includes information corresponding to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination, associated with the one or more devices included in the output system.

193. (Currently amended) The system of claim 172 in which the output system includes **one or more devices that is acceptable for rendering at least part of the selected digital content, the one or more devices includes** an information apparatus that is at least one of an e-book, a smart phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

194. (Currently amended) The system of claim 167 in which the system includes ~~an information apparatus~~ **a smart phone** for receiving the device dependent output data, and the ~~information apparatus~~ **smart phone** further enables operations for **wirelessly** delivering at least part of **the selected digital content** ~~device dependent output data~~ from the ~~information apparatus~~ **smart phone** to an output controller associated with a television **or speaker** for rendering at least part of the selected digital content at the television **or at the speaker**.

195. (Currently amended) The system of claim 167 in which the system includes an information apparatus, and the information apparatus is connected to the device over a wireless network connection, **a direct wireless connection,** or a wired connection**, individually or in any combination**.

196. (Currently amended) The system of claim 167 in which the system is ~~a television system.~~ **at least a controller that is wire connectable to a television using a wire communication interface, the controller is configured to receive the device dependent output data from the one or more servers, and the controller is configured to decode at least part of the device dependent output data related to at least part of the selected digital content, and the controller is further configured to transmit at least part of the decoded digital content to the television, via the wired communication interface, for rendering at least part of the selected digital content at the television.**

197. (Currently amended) The system of claim 167 in which the communication channel over the network between the system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, **or** [[and]] a wireless network, individually or in any combination, **and the establishing of the communication channel is subsequent to having sent the security or authentication information from the system to the one or more servers over the network**.

198. (Currently amended) The system of claim [[167]] **197** in which the system includes an information apparatus, and the information apparatus is at least one of a laptop computer, a desktop computer, ~~a networked computer,~~ a smart phone, an Internet pad, an Internet appliance, **a speaker,** or a digital camera, individually or in any combination, and the information apparatus is ~~operable~~ **configured** for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network, **and the receiving of at least part of the device dependent output data is based, at least in part, on having sent the payment or subscription information from the system to the one or more servers over the network**.

199. (Currently amended) The method of claim [[157]] **161** in which **the communication unit of** the apparatus includes a wireless communication unit and the connection between the apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication unit of the apparatus.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated May 3, 2017

A Notice of Allowance was mailed on May 3, 2017 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Claims of Application

Because Applicant is filing a Request for Continued Examination, Applicant has taken the opportunity to amend the claims of the application to improve consistency and clarity. Applicant corrected some antecedence errors as well as improved readability of the claims. Applicant respectfully requests entry of the above claim amendments as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or representative of the assignee, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on August 2, 2017.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

KOLISCH HARTWELL, P.C.

/Peter D. Sabido/
Peter D. Sabido
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PTO/SB/08a (03-15)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6725281		2004-04-20	Zintel et al.	
	2	9116723		2015-08-25	Chang et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20170185376		2017-06-29	Chang et al.	

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	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 11/933,031, June 26, 2017, 28 pages.	

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-08-02
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	2820	1	850	850
		Total in USD ($)		**850**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	29965007
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	02-AUG-2017
Filing Date:	18-NOV-2001
Time Stamp:	16:36:20
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20170802_Amendment_Accompanying_RCE_FXT312.pdf	198786 8fcc51ae3dff7c65ac5e9373cd513267c086698	no	31
Warnings:					
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3	Information Disclosure Statement (IDS) Form (SB08)	20170802_IDS_FXT312.pdf	1035056 8d29166aad83d947f67a45c9391aa3c2c2ddcc65	no	4
Warnings:					
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4	Non Patent Literature	NPL1_20170626_OA.pdf	1646895 c75ccb5f1a5cdf09555f5d52cc1a2ec18a92d282	no	28
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30894 1d88207cc19f4b0ca87422c1568aa04ac227d42	no	2
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	08/02/2017	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
	Independent (37 CFR 1.16(h))	* 7	Minus	***7	= 0	x $210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
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SLIE
KENDALL JONES

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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Lexmark v. Flexiworld

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7590 05/03/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 05/03/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	08/03/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 05/03/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	08/03/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2458	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

☐ Issue Fee

☐ Publication Fee (No small entity discount permitted)

☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

☐ A check is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 05/03/2017

EDWARD B. ANDERSON
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520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 05/03/2017

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2458	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *4/12/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4/12/2017
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2458

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20170039009		2017-02-09	Chang et al.	
	2	20170064746		2017-03-02	Chang et al.	
	3	20170075636		2017-03-16	Chang et al.	
	4	20170078521		2017-03-16	Chang et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(**Not for submission under 37 CFR 1.99**)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/ESTHER B HENDERSON/ (04/29/2017)	Date Considered	04/29/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-04-12
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	2	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT	WITH	ON	2017/04/29 09:48
L8	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT	WITH	ON	2017/04/29 09:49
L9	2	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT	WITH	ON	2017/04/29 09:51
L10	109	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT	WITH	ON	2017/04/29 09:51
L11	0	((pointer or reference) near (content near object) same (device near dependent)).clm.	US-PGPUB; USPAT	WITH	ON	2017/04/29 09:53

4/ 29/ 2017 10:01:48 AM
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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	204	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/04/29 09:29
L2	13520	(touch near2 (screen or pad)) and (install$4 or add$4 or download$4) near2 (software or application or app) and (payment or subscription) and (job or task or workflow) and (authenticat$4 or authoriz$6 or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/04/29 09:33
L3	9	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((compress$5 or compact$4 or shrink$4 or condens$6) near2 (data or object or content or media or file or information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/04/29 09:34
L4	33	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/04/29 09:35
L5	140	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	US-PGPUB; USPAT	WITH	ON	2017/04/29 09:36
L6	250	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2 (payment or subscription))	US-PGPUB; USPAT	WITH	ON	2017/04/29 09:37

4/ 29/ 2017 9:57:12 AM
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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC					
Symbol				Type	Version
G06F		3	/ 126	F	2013-01-01
G06F		3	/ 1204	I	2013-01-01
G06F		3	/ 1247	I	2013-01-01
G06F		3	/ 1288	I	2013-01-01
G06F		3	/ 1292	I	2013-01-01
G06Q		20	/ 102	I	2013-01-01
G06Q		40	/ 00	I	2013-01-01
H04L		12	/ 2805	I	2013-01-01
H04L		12	/ 2809	A	2013-01-01
H04L		12	/ 2812	I	2013-01-01
H04L		12	/ 2834	A	2013-01-01
H04L		12	/ 2838	A	2013-01-01
H04L		2012	/ 2849	A	2013-01-01
H04L		2012	/ 285	A	2013-01-01
H04L		67	/ 16	A	2013-01-01
H04L		67	/ 2823	I	2013-01-01
H04L		67	/ 303	I	2013-01-01
H04L		67	/ 2828	I	2013-01-01
H04L		67	/ 04	A	2013-01-01
H04L		67	/ 28	I	2013-01-01

CPC Combination Sets						
Symbol				Type	Set	Ranking	Version
			/				
			/				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	4/29/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20170429

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
709	217	G 0 6 F 15 / 16 (2006.0)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	4/29/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20170429

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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	2		29		56		83		110	7	137	34	164	61	191
	3		30		57		84		111	8	138	35	165	62	192
	4		31		58		85		112	9	139	36	166	63	193
	5		32		59		86		113	10	140	37	167	64	194
	6		33		60		87		114	11	141	38	168	65	195
	7		34		61		88		115	12	142	39	169	66	196
	8		35		62		89		116	13	143	40	170	67	197
	9		36		63		90		117	14	144	41	171	68	198
	10		37		64		91		118	15	145	42	172	69	199
	11		38		65		92		119	16	146	43	173		
	12		39		66		93		120	17	147	44	174		
	13		40		67		94		121	18	148	45	175		
	14		41		68		95		122	19	149	46	176		
	15		42		69		96		123	20	150	47	177		
	16		43		70		97		124	21	151	48	178		
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	18		45		72		99		126	23	153	50	180		
	19		46		73		100		127	24	154	51	181		
	20		47		74		101		128	25	155	52	182		
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	22		49		76		103		130	27	157	54	184		
	23		50		77		104	1	131	28	158	55	185		
	24		51		78		105	2	132	29	159	56	186		
	25		52		79		106	3	133	30	160	57	187		
	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	4/29/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20170429

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	04/29/2017
	1	÷	.	.	.	.	.	.	.	.
	2	÷	.	.	.	.	.	.	.	.
	3	÷	.	.	.	.	.	.	.	.
	4	÷	.	.	.	.	.	.	.	.
	5	÷	.	.	.	.	.	.	.	.
	6	÷	.	.	.	.	.	.	.	.
	7	÷	.	.	.	.	.	.	.	.
	8	÷	.	.	.	.	.	.	.	.
	9	÷	.	.	.	.	.	.	.	.
	10	÷	.	.	.	.	.	.	.	.
	11	÷	✓	.	.	.	.	.	.	.
	12	÷	✓	.	.	.	.	.	.	.
	13	÷	✓	.	.	.	.	.	.	.
	14	÷	✓	.	.	.	.	.	.	.
	15	÷	✓	.	.	.	.	.	.	.
	16	÷	✓	.	.	.	.	.	.	.
	17	÷	✓	.	.	.	.	.	.	.
	18	÷	✓	.	.	.	.	.	.	.
	19	÷	✓	.	.	.	.	.	.	.
	20	÷	✓	.	.	.	.	.	.	.
	21	÷	✓	.	.	.	.	.	.	.
	22	÷	✓	.	.	.	.	.	.	.
	23	÷	.	.	.	.	.	.	.	.
	24	÷	.	.	.	.	.	.	.	.
	25	÷	.	.	.	.	.	.	.	.
	26	÷	.	.	.	.	.	.	.	.
	27	÷	.	.	.	.	.	.	.	.
	28	÷	.	.	.	.	.	.	.	.
	29	÷	.	.	.	.	.	.	.	.
	30	÷	.	.	.	.	.	.	.	.
	31	÷	.	.	.	.	.	.	.	.
	32	÷	✓	.	.	.	.	.	.	.
	33	÷	✓	.	.	.	.	.	.	.
	34	÷	✓	.	.	.	.	.	.	.
	35	÷	✓	.	.	.	.	.	.	.
	36	÷	✓	.	.	.	.	.	.	.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	04/29/2017
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	38	÷	✓	.	.	.	.	.	.	.
	39	÷	✓	.	.	.	.	.	.	.
	40	÷	✓	.	.	.	.	.	.	.
	41	÷	✓	.	.	.	.	.	.	.
	42	÷	✓	.	.	.	.	.	.	.
	43	÷	✓	.	.	.	.	.	.	.
	44	÷	✓	.	.	.	.	.	.	.
	45	÷	✓	.	.	.	.	.	.	.
	46	÷	✓	.	.	.	.	.	.	.
	47	÷	✓	.	.	.	.	.	.	.
	48	÷	✓	.	.	.	.	.	.	.
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	51	÷	✓	.	.	.	.	.	.	.
	52	÷	✓	.	.	.	.	.	.	.
	53	÷	✓	.	.	.	.	.	.	.
	54	÷	✓	.	.	.	.	.	.	.
	55	÷	✓	.	.	.	.	.	.	.
	56	÷	✓	.	.	.	.	.	.	.
	57	÷	✓	.	.	.	.	.	.	.
	58	÷	✓	.	.	.	.	.	.	.
	59	÷	.	.	.	.	.	.	.	.
	60	÷	.	.	.	.	.	.	.	.
	61	÷	.	.	.	.	.	.	.	.
	62	÷	.	.	.	.	.	.	.	.
	63	÷	.	.	.	.	.	.	.	.
	64	÷	.	.	.	.	.	.	.	.
	65	÷	.	.	.	.	.	.	.	.
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	67			.	.	.	.	.	.	.
	68			.	.	.	.	.	.	.
	69			.	.	.	.	.	.	.
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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	74			-	-	-	-	-	-	-
	75			-	-	-	-	-	-	-
	76			-	-	-	-	-	-	-
	77			-	-	-	-	-	-	-
	78			-	-	-	-	-	-	-
	79			-	-	-	-	-	-	-
	80			-	-	-	-	-	-	-
	81			-	-	-	-	-	-	-
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	98			-	-	-	-	-	-	-
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	102			-	-	-	-	-	-	-
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	107			-	-	-	-	-	-	-
	108			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

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CLAIM		DATE								
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	129			-	-	-	-	-	-	-
	130			-	-	-	-	-	-	-
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2	132			✓	✓	✓	✓	✓	=	=
3	133			✓	✓	✓	✓	✓	=	=
4	134			✓	✓	✓	✓	✓	=	=
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6	136			✓	✓	✓	✓	✓	=	=
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8	138			✓	✓	✓	✓	✓	=	=
9	139			✓	✓	✓	✓	✓	=	=
10	140			✓	✓	✓	✓	✓	=	=
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13	143			✓	✓	✓	✓	✓	=	=
14	144			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	04/29/2017
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18	148			✓	✓	✓	✓	✓	=	=
19	149			✓	✓	✓	✓	✓	=	=
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21	151			✓	✓	✓	✓	✓	=	=
22	152			✓	✓	✓	✓	✓	=	=
23	153			✓	✓	✓	✓	✓	=	=
24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
27	157			✓	✓	✓	✓	✓	=	=
28	158			✓	✓	✓	✓	✓	=	=
29	159			✓	✓	✓	✓	✓	=	=
30	160			✓	✓	✓	✓	✓	=	=
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33	163			✓	✓	✓	✓	✓	=	=
34	164			✓	✓	✓	✓	✓	=	=
35	165			✓	✓	✓	✓	✓	=	=
36	166			✓	✓	✓	✓	✓	=	=
37	167			✓	✓	✓	✓	✓	=	=
38	168			✓	✓	✓	✓	✓	=	=
39	169			✓	✓	✓	✓	✓	=	=
40	170			✓	✓	✓	✓	✓	=	=
41	171			✓	✓	✓	✓	✓	=	=
42	172			✓	✓	✓	✓	✓	=	=
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44	174			✓	✓	✓	✓	✓	=	=
45	175			✓	✓	✓	✓	✓	=	=
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47	177			✓	✓	✓	✓	✓	=	=
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49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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CLAIM		DATE								
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54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
61	191			✓	✓	✓	✓	✓	=	=
62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
64	194			✓	✓	✓	✓	✓	=	=
65	195			✓	✓	✓	✓	✓	=	=
66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC- SEARCHED		
Symbol	Date	Examiner
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and (pointer or reference)	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	9/22/2015	EBH
Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH
Update Search	4/29/2017	EBH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

SEARCH NOTES		
Search Notes	Date	Examiner

SEARCH NOTES

Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB
Update Search	2/6/2015	EBH
Update Search	5/28/2015	EBH
Update Search	9/22/2015	EBH
Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH
Update Search	4/29/2017	EBH

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
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	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH
	See Interference Search History	5/29/2015	EBH
	See Interference Search History	9/22/2015	EBH
	See Interference Search History	2/4/2016	EBH
	See Interference Search History	1/5/2017	EBH
	See Interference Search History	4/29/2017	EBH

PTO/SB/30EFS (07-14)
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2458
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit Henderson		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☐ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No _____

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

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Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-04-12
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: April 12, 2017

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 4
Amendments to the Drawings	None
Remarks	Begin on page 27

Amendments to the Specification

Please make the amendments below to the specification. Material to be deleted is in ~~strikeout~~.

Please replace paragraphs 0027 and 0028 on page 7, with the following rewritten paragraphs:

[0027] Fig. 10A is an exemplary block diagram of a conventional printing system or printer with a ~~conventional~~ printer controller.

[0028] Fig. 10B is an exemplary block diagram of a conventional output system or an output device such as a printing system or printer that does not include a ~~conventional~~ printer controller.

Please replace paragraph 0060 on page 19, with the following rewritten paragraph:

[0060] A ~~conventional~~ printing system includes three basic components: a raster Image processor, a memory buffer, and a marking engine. The raster image processor converts digital content into a raster suitable for printing; the memory buffer holds the rasterized image ready for printing; and the marking engine transfers colorant to a substrate (e.g., paper).

Please replace paragraph 0063 on page 20, with the following rewritten paragraph:

[0063] Fig. 10A illustrates an exemplary block diagram of one ~~conventional~~ printing system or printer 1000A that includes a printer controller 1010, a memory buffer 1004, and a marking engine 1006. The printer controller 1010 includes an interpreter 1001 and a raster image processor 1002.

Please replace paragraph 0067 on page 21, with the following rewritten paragraph:

[0067] Fig. 10B shows another exemplary ~~conventional~~ output system or an output device 1000B. An output system or output device may include one or more of a printing system or device, a display system or device, a projection system or device, or a sound system or device. In the case that the output system or device is a printer, the printer with reference to Fig. 10A does not have a printer controller 1010. A typical example of printer 1000B is a lower-cost inkjet printer. RIP operations in this example may be implemented in a software application or device driver in an information apparatus 100 that outputs to such a printer 1000B. Conventionally, a device-specific driver or application may need to reside in the information apparatus 100 to rasterize and convert the digital document from its original format into final print data (for example a compressed CMKY data with one or more bits per pixel) that can be understood by a particular printer engine 1008B.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus or device for rendering, the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination, the digital content service including,

one or more servers for providing, to the information apparatus or the device the digital content, the one or more servers being distinct and separate from the information apparatus and the device, and

one or more server applications executable at the one or more servers for managing at least part of the digital content service, the digital content service method comprising:

receiving, from the information apparatus or the device, by the one or more servers, security or authentication information associated with a user operating the information apparatus or the device for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus or the device, by the one or more servers, payment or subscription information **associated with the user** for accessing **the** one or more digital content available at **[[**a**]]** **the one or more servers** ~~content server~~ operated, at least in part, by the digital content service;

receiving, at the one or more servers, an object from the information apparatus or the device over the network that includes the Internet, the object including **device** information **related to one or more devices, and the device information**

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corresponding to at least one of device identification information, model information, brand information, or registration information, individually or in any combination**, the one or more devices include the information apparatus or the device**;

providing, to the information apparatus or the device, by the one or more servers, one or more pointers or references to at least part of the one or more digital content available at the **one or more servers** ~~content server~~ for selection by the user at the information apparatus or the device;

receiving, at the one or more servers, a pointer or reference to selected digital content from among the one or more pointers or references provided, by the one or more servers, to the information apparatus or the device;

retrieving, by the one or more server applications, at least part of the selected digital content from the **one or more servers** ~~content server~~ employing, at least in part, the pointer or reference to the selected digital content received from the information apparatus or the device;

generating output data, at the one or more servers with the one or more server applications, the output data being related to at least part of the selected digital content, and the generating of the output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of at least part of the selected digital content; and

transmitting, by the one or more servers, at least part of the generated output data to the information apparatus or the device for rendering at least part of the selected digital content at the information apparatus or the device; and

wherein the generated output data is, at least in part, device dependent for rendering at the **one or more devices** ~~information apparatus or the device~~, and the **generated** output data having a relationship, at least in part, to the **device** information included in the object and received by the one or more servers from the information apparatus or the device over the network that includes the Internet**, and wherein transmitting of at least part of the generated output data by the one or more**

servers to the information apparatus or the device is subsequent to having received the security or authentication information associated with the user operating the information apparatus or the device.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus or the device, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Currently amended) The method of claim 131 in which the information apparatus and the device **[[**is**]]** **are** part of an output system that includes a television **for rendering or playing the selected digital content at the television**.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the output data.

135. (Currently amended) The method of claim 131 in which the device is **an output device that is at** least one of a television, an output controller connectable with a television, an audio output device, **a sound output device,** a music output device, or a projection device, individually or in any combination.

136. (Previously presented) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus or the device, at least part of the output data from the one or more servers; and

decoding, by the client application at the information apparatus or the device, at least part of the output data received from the one or more servers for rendering of at

least part of the selected digital content.

137. (Currently amended) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of a ~~palmtop computer, a handheld computer, a laptop computer,~~ an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Currently amended) The method of claim 131 in which the payment or subscription information **was previously received from the user by the digital content service, and the payment or subscription information** is provided automatically when the digital content service is accessed by the information apparatus or the device.

139. (Previously presented) The method of claim 131 in which the payment or subscription information is provided through the information apparatus or the device as entered by a user in response to a prompt to enter payment or subscription information.

140. (Currently amended) The method of claim **[[**131**]] 138** in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Currently amended) The method of claim 131 **wherein the generated output data, corresponding to at least part of the selected digital content, is device dependent for rendering or output or playing at the one or more devices that include the information apparatus or the device.** ~~in which the device includes a display screen associated with the information apparatus.~~

142. (Currently amended) The method of claim 131 in which the device, which is

associated with the information apparatus, **is an output device, and the output device** includes at least one of **a display device,** a television, an audio output device, or a music output device, individually or in any combination**, and wherein the output device is either wire connected to the information apparatus or wirelessly connected to the information apparatus**.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus or the device and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the output data includes audio data;

(2) a display device or a projection device and wherein the output data includes video data; or

(3) a television and wherein the output data includes audio data and video data.

145. (Previously presented) The method of claim 131 further comprising a client application that is installable by the user at the information apparatus or the device, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data corresponding to at least part of the digital content.

146. (Currently amended) The method of claim [[131]] **145** in which the device or the information apparatus decodes and decompresses**, using the client application,** at least part of the output data **that is, at least in part, device dependent,** for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least

part of the output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein upon execution of at least part of the client application by the processor at the information apparatus, the information apparatus is **operable** ~~configured~~ for:

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

delivering, from the information apparatus, ~~at least part of an object~~ **one or more device objects** to the one or more servers over a network, the **one or more device objects related to one or more devices for outputting or playing digital content, and the one or more device objects** ~~object~~ including information related to at least one of device identification information, model information, brand information,

registration information, or IP address information, individually or in any combination;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the information apparatus and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, information associated with selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least a pointer or reference to the selected digital content;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers **is** related, at least in part, to the information included in the **one or more device objects** ~~object~~ delivered from the information apparatus, and the device dependent output data**, corresponding to at least part of the selected digital content, is device dependent with respect to the one or more devices for output or playing at least part of the digital content; and**

wherein the receiving of the device dependent output data is subsequent to having sent, from the information apparatus to the one or more servers, the security or authentication information associated with the user, and the receiving of the device dependent output data is further subsequent to having sent, from the information apparatus to the one or more servers, the payment or subscription information.

~~received from the one or more servers further including an encryption scheme for ensuring security of at least part of the device dependent output data~~; and

~~decoding, at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering of at least part of the selected digital content.~~

149. (Currently amended) The apparatus of claim 148 wherein the **one or more**

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devices include the information apparatus, and the information apparatus is further operable for:

decoding, at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering or outputting or playing of at least part of the selected digital content; and

rendering **or outputting or playing** at least part of the device dependent output data.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Previously presented) The apparatus of claim 148 further comprising transmitting at least part of the device dependent output data to an output device or device for rendering, the output device or device including one or more of a display device, a projection device, a television device, an audio output device, and an output controller wire connected to a television, individually or in any combination.

152. (Currently amended) The apparatus of claim [[148]] **151** wherein the information apparatus is further operable for discovering an output device or device as one of one or more output devices or devices that are discovered by the information apparatus as being available for rendering at least part of the selected digital content**; and wherein one or more device objects related to the one or more output devices include the discovered output device or device**.

153. (Previously presented) The apparatus of claim 148 in which the information apparatus further includes one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units included at the information apparatus.

154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Currently amended) The apparatus of claim **[[**148**]]** **154** in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Currently amended) The apparatus of claim 148 in which the information apparatus is at least one of ~~a desktop computer, a laptop computer,~~ a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Currently amended) A method for accessing digital content, by an apparatus over a network that includes the Internet, the apparatus including **a communication unit, one or more processors,** an operating system and one or more client applications facilitated by the operating system **and executable by the one or more processors** for providing one or more functionalities of the apparatus, the method comprising:

establishing**, using the communication unit,** a connection between the apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the apparatus; **and subsequent to**

establishing, using the communication unit, the connection between the apparatus and the one or more servers, the method further comprises:

receiving, at the apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the apparatus;

delivering, from the apparatus to the one or more servers, at least a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the apparatus, from among the one or more pointers or references provided, at least in part, to the apparatus by the one or more servers;

delivering, from the apparatus, one or more objects to the one or more servers, the one or more objects including information corresponding to **one or more devices, and the information including** at least one of device identification information, model information, brand information, or registration information, individually or in any combination;

sending, from the apparatus to the one or more servers over the network, security or authentication information associated with a user operating the apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the apparatus, from the one or more servers operated, at least partly, by the digital content service, device dependent output data corresponding to the digital content and having a relationship, at least in part, to the one or more objects delivered from the apparatus to the one or more servers over the network that includes the Internet, and the device dependent output data corresponding to the digital content further including an encryption scheme for ensuring security of the digital content for rendering, **at the one or more devices,** at least part of the device dependent output data.

158. (Previously presented) The method of claim 157 further comprising:

establishing a connection between the apparatus and a television or an output controller connected to a television; and

transmitting, by the apparatus, at least part of the digital content over the connection for rendering of the at least part of the digital content at the television.

159. (Previously presented) The method of claim 157 in which the apparatus is at least one of a palmtop computer, a desktop computer, a networked computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the apparatus to the one or more servers over the network as payment or subscription for digital content service.

161. (Currently amended) The method of claim 157 in which the apparatus includes **an output device that is** a display screen or speaker for rendering or outputting at least part of the digital content received from the one or more servers**, and wherein the one or more devices include the apparatus**.

162. (Currently amended) The method of claim 157 ~~in which~~ **wherein the method further comprises delivering, from the apparatus, one or more content objects to the one or more servers,** the one or more **content** objects **include** ~~includes~~ at least part of the digital content for storing at the one or more servers.

163. (Currently amended) The method of claim 157 in which the apparatus is part of an output system that includes a television, and at least part of the output system is operable for accessing the digital content service over the Internet.

164. (Currently amended) The method of claim 157 in which the apparatus is wired **or wirelessly** connected to a television **for rendering at least part of the digital content**.

165. (Currently amended) The method of claim 157 in which the apparatus

includes a network communication unit and the method further comprising the apparatus establishing a wired or wireless connection, via the network communication unit, with **a device that includes** at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the digital content over the wired or wireless connection for rendering**, and wherein the one or more devices include the apparatus or the device**.

166. (Currently amended) The method of claim [[157]] **165** further comprising decoding or decompressing at least part of the device dependent output data corresponding to at least part of the digital content at the apparatus for rendering.

167. (Previously presented) A system for accessing digital content service over a network and for receiving device dependent output data from one or more servers over the network for rendering, the device dependent output data corresponding to at least part of digital content that is acceptable for rendering at the system, the system comprising:

a processor;

a device that is at least one of a display device, or a projection device, or an audio output device, for rendering at least part of the device dependent output data;

a display screen or projection medium;

an operating system;

a client application having a graphical user interface over the display screen or projection medium for interacting with a user of the system, the client application facilitated at least partly by the operating system included in the system;

wherein, the system is operable for:

establishing a communication channel between the system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display screen or projection medium, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, from a user of the system via the graphical user interface, selected digital content from among the one or more pointers or references to the one or more digital content provided for selection;

delivering, from the system, at least part of a content object to the one or more servers over the network, the one or more servers being distinct and separate devices from the system, the content object including the pointer or reference to the selected digital content;

delivering, by the system, at least part of an object to the one or more servers over the network, the one or more servers being distinct and separate devices from the system, the object including information related to at least part of the system;

sending, from the system to the one or more servers over the network, security or authentication information associated with the user of the system for authentication of the user;

sending, from the system to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, at the system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information included in the object delivered from the system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the system for rendering;

decoding at least part of the device dependent output data at the system for rendering at least part of the selected digital content by the system; and

rendering by the at least one of a display device, or a projection device, or an audio output device included in the system, at least part of the selected digital content that includes, at least in part, video or audio content.

168. (Previously presented) The system of claim 167 in which the object includes a device identification information or an address, and the system is further operable for obtaining an object, the obtaining of the object includes obtaining information from at least one of the following: (1) user input, (2) a communication with a device, (3) obtaining information from one or more devices, (4) retrieving a parameter stored in the system, or (5) a default parameter or preference associated with the system, individually or in any combination.

169. (Previously presented) The system of claim 167 wherein the system includes at least one of a television system, an output controller connected to a television, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance or a digital camera, individually or in any combination.

170. (Previously presented) The system of claim 167 in which the system includes an information apparatus, and the device and the information apparatus are wire connected.

171. (Previously presented) The system of claim 167 wherein the system includes an information apparatus and the system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at a device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system, over a network that includes the Internet, digital content that is acceptable for rendering at the output system, the output system including one or more devices, the digital content service system comprising:

one or more servers that are distinct and separate from the output system;

one or more processors included in the one or more servers;

one or more server applications executable, at least partly, by the one or more processors at on the one or more servers to facilitate operations of the one or more servers;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; wherein

the one or more servers are operable to:

receive, from the output system, security or authentication information associated with a user for authentication of the user;

receive, from the output system, **device** information relating to at least part of the output system that includes one or more devices;

receive, from the output system, a content object, the content object including at least a pointer or reference to selected digital content, the pointer or the reference being related to a selection by a user from among one or more pointers or references to digital content provided, at least in part, to the output system by the one or more servers;

receive, from the output system, payment or subscription information to enable transmitting at least part of the selected digital content to the output system;

obtaining, by the one or more server applications, output data related, at least partly, to the selected digital content, the obtaining of the output data being after having received **the content object** ~~selected digital content~~ and at least the payment or subscription information, at least part of the output data has a relationship, at least in part, to the **device** information relating to the output system received by the one or more servers, and at least part of the output data includes (1) a compression operation applied on at least part of the selected digital content, and (2) an encryption scheme associated with one or more security keys applied on at least part of the selected digital content for ensuring security of the selected digital content ; and

wherein the output data **related, at least partly, to the selected digital content,** is device dependent for rendering at the output system that includes one or more devices, and at least part of the output data is for transmitting to the output system**, and the device dependent output data, related, at least partly, to the selected digital content,** [[that]] is acceptable for rendering at least part of the selected digital content at

the output system, the selected digital content includes at least one of audio digital content or video digital content, individually or in any combination.

173. (Previously presented) The system of claim 172 wherein the output system includes a client application, and the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data that is device dependent for rendering at the output system, and the client application is further operable for decoding at least part of the output data received from the one or more servers for rendering at the output system.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device and the device dependent output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system is a television system, and the television system includes at least one of a television, an output controller connectable to a television, a display device, or an audio output device, individually or in any combination.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to selected digital content, and the one or more server applications further retrieve at least part of the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Previously presented) In a computer memory or storage device at a server system, containing one or more server applications executable by one or more processors at one or more servers in the server system for transmitting device dependent output data acceptable for rendering at an output system, the output system including one or more devices, and the server system including one or more servers that are accessible by the one or more devices over a network that includes the

Internet, the server system being distinct and separate from the one or more devices of the output system, the one or more server applications in the computer memory or storage device, when executed by the one or more processors at the server system, configures the server system to:

receive, by the server system from the output system, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system from among one or more pointers or references provided, at least in part, to the output system by the server system;

receive, by the server system from the output system, one or more objects, the one or more objects having information related to the output system that includes one or more devices; and

receive, by the server system and from the output system, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system;

generate, by the server system, the output data associated with at least part of the digital content, the output data having a relationship, at least in part, to the information included in the one or more objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital content for transmitting the output data associated with at least part of the digital content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content for rendering at the output system; and

transmit, by the server system, at least part of the output data associated with at least part of the digital content that includes the encryption scheme applied, to the output system over the network that includes the Internet after having received at least the security or authentication information, the one or more content objects, and the one

or more objects from the output system; and

wherein the one or more devices of the output system include at least an information apparatus, and at least part of the transmitted output data being device dependent for rendering at least part of the digital content at the output system that includes the one or more devices.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Previously presented) The memory or storage device of claim 177 in which the output system that includes an information apparatus further renders at least part of the output data at the display screen of the information apparatus.

180. (Currently amended) In a non-transitory computer memory or storage device at one or more servers or at an information apparatus, containing client software configured to be executable, at least partly, by ~~a processor~~ **one or more processors** at the information apparatus for obtaining digital content from a digital content service operated, at least partly, over the Internet, the obtained digital content being at least partly encoded with an encryption scheme that is acceptable for rendering at one or more devices, the information apparatus including a graphical user interface over a display screen for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the digital content includes video content or audio content for rendering, wherein the computer memory or storage device containing the client software, **facilitated by the operating system,** ~~that~~ is ~~configured to be~~ executable, at least partly, by the **one or more processors** ~~processor~~ at the information apparatus **to perform a method at the information apparatus**, comprising:

~~software for~~ establishing a communication channel between the information apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate device from the information apparatus and the one or more devices; and

~~software for~~ sending, from the information apparatus to the one or more servers over a network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user; and

~~software for~~ obtaining**, at the information apparatus,** one or more objects related to the one or more devices, the one or more objects including device information related, at least in part, to at least one of device identification information, model information, brand information, or registration information, individually or in any combination; and

~~software for~~ providing over the graphical user interface at the display screen, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

~~software for~~ receiving selected digital content from the user of the information apparatus**,** via the graphical user interface [[,]] **and** from among the one or more pointers or references to the digital content; and

~~software for~~ obtaining**, at the information apparatus,** a content object that includes a pointer or reference to the selected digital content; and

~~software for~~ delivering, from the information apparatus, at least part of the content object and at least part of the one or more objects to the one or more servers; and

~~software for~~ receiving, at the information apparatus, device dependent output data, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the device information included in the one or more objects delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

~~software for~~ decoding**, at the information apparatus,** at least part of the device dependent output data that includes an encryption scheme received from the one or more servers; and

~~software for~~ rendering at least part of the decoded device dependent output data

related, at least in part, to the selected digital content at the one or more devices.

181. (Previously presented) The non-transitory computer memory or storage device of claim 180 wherein the client application is facilitated by the operating system for installing the client application, by the user at the information apparatus, for expanding the functionalities of the information apparatus.

182. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the at least one device of the one or more devices is associated with the information apparatus, and the at least one device is at least one of a display device or an audio output device that is wire connected to the information apparatus.

183. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

184. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the one or more devices are either a projection device, a display screen, or a television, and the device dependent output data includes video data, and wherein a connection between the information apparatus and the device includes a wired connection.

185. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, audio data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Previously presented) The non-transitory computer memory or storage

device of claim 180 in which the one or more devices include one or more of a television or an output controller connectable to a television, and the selected digital content includes video content or audio content for rendering at the television.

187. (Previously presented) The non-transitory computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188. (Previously presented) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus.

189. (Previously presented) The memory or storage device of claim 177 in which the output system includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or the projection device.

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Previously presented) The memory or storage device of claim 177 in which the one or more objects include identification, a pointer, or a reference, the identification including one or more of a device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Previously presented) The system of claim 172 in which the information associated with the output system includes information corresponding to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination, associated with the one or more devices included in the output system.

193. (Previously presented) The system of claim 172 in which the output system includes an information apparatus that is at least one of an e-book, a smart phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

194. (Previously presented) The system of claim 167 in which the system includes an information apparatus for receiving the device dependent output data, and the information apparatus further enables operations for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Previously presented) The system of claim 167 in which the system includes an information apparatus, and the information apparatus is connected to the device over a wireless network connection or a wired connection.

196. (Previously presented) The system of claim 167 in which the system is a television system.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Previously presented) The system of claim 167 in which the system

includes an information apparatus, and the information apparatus is at least one of a laptop computer, a desktop computer, a networked computer, a smart phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination, and the information apparatus is operable for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network.

199. (Previously presented) The method of claim 157 in which the apparatus includes a wireless communication unit and the connection between the apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication unit of the apparatus.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated January 12, 2017

A Notice of Allowance was mailed on January 12, 2017 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Claims of Application

Because Applicant is filing a Request for Continued Examination, Applicant has taken the opportunity to amend the claims of the application to improve consistency and clarity. Applicant corrected some antecedence errors as well as improved readability of the claims. Applicant respectfully requests entry of the above claim amendments as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on April 12, 2017.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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	2	20170064746		2017-03-02	Chang et al.	
	3	20170075636		2017-03-16	Chang et al.	
	4	20170078521		2017-03-16	Chang et al.	

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	Application Number	09992413
	Filing Date	2001-11-18
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	Art Unit	2458
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	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

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Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2017-04-12
Name/Print	Peter D. Sabido	Registration Number	50353

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Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	2820	1	850	850
		Total in USD ($)		**850**

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Electronic Acknowledgement Receipt

EFS ID:	28910616
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES
First Named Inventor/Applicant Name:	William Ho Chang
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Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	12-APR-2017
Filing Date:	18-NOV-2001
Time Stamp:	17:43:24
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Warnings:					
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2	Amendment Submitted/Entered with Filing of CPA/RCE	20170412_Amendment_Accompanying_RCE_FXT312.pdf	187442 79d3386635a41eac3d29d35af49d7130a421a75	no	28
Warnings:					
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Warnings:					
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4	Fee Worksheet (SB06)	fee-info.pdf	30892 a1926dc5a5891075acd1235356f0a4ac064ad5	no	2
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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/06 (09-11)
Approved for use through 1/31/2014 OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/12/2017

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
Independent (37 CFR 1.16(h))	* 7	Minus	*** 7	= 0	x $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
PARTHENIA D. MERRILL

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 01/12/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 01/12/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	04/12/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 01/12/2017

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	04/12/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2458	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 01/12/2017

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PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 01/12/2017

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2458	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *11/14/2016*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/14/2016
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2458

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC- SEARCHED

Symbol	Date	Examiner
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and (pointer or reference)	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	9/22/2015	EBH
Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH

CPC COMBINATION SETS - SEARCHED

Symbol	Date	Examiner

US CLASSIFICATION SEARCHED

Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

SEARCH NOTES

Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN

SEARCH NOTES

Search Notes	Date	Examiner
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB
Update Search	2/6/2015	EBH
Update Search	5/28/2015	EBH
Update Search	9/22/2015	EBH
Update Search	2/4/2016	EBH
Update Search	1/5/2017	EBH

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH
	See Interference Search History	5/29/2015	EBH
	See Interference Search History	9/22/2015	EBH
	See Interference Search History	2/4/2016	EBH
	See Interference Search History	1/5/2017	EBH

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S206	4	((pointer or reference) near (content near object) same (digital near2 content)).clm.	US-PGPUB; USPAT	WITH	ON	2017/01/05 13:05
S207	108	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT	WITH	ON	2017/01/05 13:07
S208	21	((device near dependent) (information near apparatus)).clm.	US-PGPUB; USPAT	WITH	ON	2017/01/05 13:09
S209	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT	WITH	ON	2017/01/05 13:10
S210	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT	WITH	ON	2017/01/05 13:11
S211	2	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT	WITH	ON	2017/01/05 13:12

1/ 5/ 2017 1:17:07 PM
C:\ Users\ ebenoit\ Documents\ EAST\ Workspaces\ 09992413.wsp

PTO/SB/08a (03-15)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6816724		2004-11-09	Asikainen	
	2	9383956		2016-07-05	Chang et al.	
	3	9389822		2016-07-12	Chang et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20160239232		2016-08-18	Chang et al.	
	2	20160239243		2016-08-18	Chang et al.	
	3	20160313974		2016-10-27	Chang et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 11/933,031, October 5, 2016, 12 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/ESTHER B HENDERSON/ (01/05/2017)	Date Considered	01/05/2017

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-11-14
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S198	30	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/01/05 10:15
S199	138	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	US-PGPUB; USPAT	WITH	ON	2017/01/05 10:23
S200	243	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	US-PGPUB; USPAT	WITH	ON	2017/01/05 10:42
S201	30	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/01/05 12:11
S202	8	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((compress$5 or compact$4 or shrink$4 or condens$6) near2 (data or object or content or media or file or information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/01/05 12:45
S203	45	printer request$5 ((mobile near2 device) or (phone) or (portable near2 (device or computer))) (authenticat$7 or password or credential)	US-PGPUB; USPAT; USOCR	WITH	ON	2017/01/05 12:47
S204	12756	(touch near2 (screen or pad)) and (install$4 or add$4 or download$4) near2 (software or application or app) and (payment or subscription) and (job or task or workflow) and (authenticat$4 or authoriz$6 or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/01/05 12:58
S205	195	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2017/01/05 13:02

1/5/2017 1:14:25 PM
C:\Users\ebenoit\Documents\EAST\Workspaces\09992413.wsp

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC					
Symbol				Type	Version
G06F		3	/ 126	F	2013-01-01
G06F		3	/ 1204	I	2013-01-01
G06F		3	/ 1247	I	2013-01-01
G06F		3	/ 1288	I	2013-01-01
G06F		3	/ 1292	I	2013-01-01
G06Q		20	/ 102	I	2013-01-01
G06Q		40	/ 00	I	2013-01-01
H04L		12	/ 2805	I	2013-01-01
H04L		12	/ 2809	A	2013-01-01
H04L		12	/ 2812	I	2013-01-01
H04L		12	/ 2834	A	2013-01-01
H04L		12	/ 2838	A	2013-01-01
H04L		2012	/ 2849	A	2013-01-01
H04L		2012	/ 285	A	2013-01-01
H04L		67	/ 16	A	2013-01-01
H04L		67	/ 2823	I	2013-01-01
H04L		67	/ 303	I	2013-01-01
H04L		67	/ 2828	I	2013-01-01
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H04L		67	/ 28	I	2013-01-01

CPC Combination Sets						
Symbol				Type	Set	Ranking	Version
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			/				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	1/5/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20170105

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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	09992413	CHANG ET AL.
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	ESTHER B. HENDERSON	2458

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
709	217	G	0	6	F	15 / 16 (2006.01.01)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	1/5/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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	6		33		60		87		114	11	141	38	168	65	195
	7		34		61		88		115	12	142	39	169	66	196
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(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	1/5/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	01/05/2017
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	36	÷	✓	.	.	.	.	.	.	.

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Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	01/05/2017
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Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	01/05/2017
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	98			-	-	-	-	-	-	-
	99			-	-	-	-	-	-	-
	100			-	-	-	-	-	-	-
	101			-	-	-	-	-	-	-
	102			-	-	-	-	-	-	-
	103			-	-	-	-	-	-	-
	104			-	-	-	-	-	-	-
	105			-	-	-	-	-	-	-
	106			-	-	-	-	-	-	-
	107			-	-	-	-	-	-	-
	108			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	01/05/2017
	109			-	-	-	-	-	-	-
	110			-	-	-	-	-	-	-
	111			-	-	-	-	-	-	-
	112			-	-	-	-	-	-	-
	113			-	-	-	-	-	-	-
	114			-	-	-	-	-	-	-
	115			-	-	-	-	-	-	-
	116			-	-	-	-	-	-	-
	117			-	-	-	-	-	-	-
	118			-	-	-	-	-	-	-
	119			-	-	-	-	-	-	-
	120			-	-	-	-	-	-	-
	121			-	-	-	-	-	-	-
	122			-	-	-	-	-	-	-
	123			-	-	-	-	-	-	-
	124			-	-	-	-	-	-	-
	125			-	-	-	-	-	-	-
	126			-	-	-	-	-	-	-
	127			-	-	-	-	-	-	-
	128			-	-	-	-	-	-	-
	129			-	-	-	-	-	-	-
	130			-	-	-	-	-	-	-
1	131			✓	✓	✓	✓	✓	=	=
2	132			✓	✓	✓	✓	✓	=	=
3	133			✓	✓	✓	✓	✓	=	=
4	134			✓	✓	✓	✓	✓	=	=
5	135			✓	✓	✓	✓	✓	=	=
6	136			✓	✓	✓	✓	✓	=	=
7	137			✓	✓	✓	✓	✓	=	=
8	138			✓	✓	✓	✓	✓	=	=
9	139			✓	✓	✓	✓	✓	=	=
10	140			✓	✓	✓	✓	✓	=	=
11	141			✓	✓	✓	✓	✓	=	=
12	142			✓	✓	✓	✓	✓	=	=
13	143			✓	✓	✓	✓	✓	=	=
14	144			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	01/05/2017
15	145			✓	✓	✓	✓	✓	=	=
16	146			✓	✓	✓	✓	✓	=	=
17	147			✓	✓	✓	✓	✓	=	=
18	148			✓	✓	✓	✓	✓	=	=
19	149			✓	✓	✓	✓	✓	=	=
20	150			✓	✓	✓	✓	✓	=	=
21	151			✓	✓	✓	✓	✓	=	=
22	152			✓	✓	✓	✓	✓	=	=
23	153			✓	✓	✓	✓	✓	=	=
24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
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33	163			✓	✓	✓	✓	✓	=	=
34	164			✓	✓	✓	✓	✓	=	=
35	165			✓	✓	✓	✓	✓	=	=
36	166			✓	✓	✓	✓	✓	=	=
37	167			✓	✓	✓	✓	✓	=	=
38	168			✓	✓	✓	✓	✓	=	=
39	169			✓	✓	✓	✓	✓	=	=
40	170			✓	✓	✓	✓	✓	=	=
41	171			✓	✓	✓	✓	✓	=	=
42	172			✓	✓	✓	✓	✓	=	=
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44	174			✓	✓	✓	✓	✓	=	=
45	175			✓	✓	✓	✓	✓	=	=
46	176			✓	✓	✓	✓	✓	=	=
47	177			✓	✓	✓	✓	✓	=	=
48	178			✓	✓	✓	✓	✓	=	=
49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	01/05/2017
51	181			✓	✓	✓	✓	✓	=	=
52	182			✓	✓	✓	✓	✓	=	=
53	183			✓	✓	✓	✓	✓	=	=
54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
61	191			✓	✓	✓	✓	✓	=	=
62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
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66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 5528

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/992,413	11/18/2001 RULE	709	2458	FXT312

APPLICANTS

INVENTORS

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

**** CONTINUING DATA ***************************

This appln claims benefit of 60/252,682 11/20/2000

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ****

04/30/2015

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ESTHER B. HENDERSON/ Examiner's Signature	☐ Met after Allowance E.B.H Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WA	10	65	7

ADDRESS

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

TITLE

DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO CONNECTED DEVICES AND APPLICATIONS THAT ACCESS THE DIGITAL CONTENT SERVICES OR STORES

FILING FEE RECEIVED	FEES: Authority has been given in Paper	☐ All Fees
1031	No._____ to charge/credit DEPOSIT ACCOUNT	☐ 1.16 Fees (Filing)
	No._____ for following:	☐ 1.17 Fees (Processing Ext. of time)
		☐ 1.18 Fees (Issue)
		☐ Other _____
		☐ Credit

BIB (Rev. 05/07)

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2458
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit Henderson		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 111540

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

PTO/SB/30EFS (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-11-14
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: November 14, 2016

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores (as currently amended)
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 4
Amendments to the Drawings	None
Remarks	Begin on page 27

Amendments to the Specification

Please make the amendments below to the specification. Material to be deleted is in ~~strikeout~~.

Please amend the title as follows:

~~Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That Includes Or Installs An Application For Accessing The Digital Content Services Or Stores~~

Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Connected Devices And Applications That Access The Digital Content Services Or Stores

Please replace paragraph 0032 on page 8, with the following rewritten paragraph:

[0032] It is important to note that the term object is not limited to software or data as its media. Any entity containing information, descriptions, attributes, data, instructions etc. in any computer-readable form or medium such as hardware, software, files based on or including voice, text, graphics, image, or video information, ~~electronic signals in analog or digital form,~~ etc., are all valid forms of object definition.

Please replace paragraph 00132 on pages 44-45, with the following rewritten paragraph:

[00132] It should be noted that some output content may be publicly available to all users (e.g., generic web pages) while other output content may be restricted to one or a group of users (e.g., secure documents stored in a corporate network). In the latter case, authentication information such as a password, user name, id number, biometric

information, digital certificate or security key, among others, may need to be provided to the server application 112 for accessing and or fetching the digital document with reference to a pointer or reference. In one example, such authentication information may be included in document object, printer object, or job object. In another example, server application 112 may prompt the user to enter authentication information through a [[UGI]] **GUI** in information apparatus 100 when necessary.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus **or device** for rendering, ~~the device being associated with the information apparatus and~~ **the digital content includes, at least in part, video digital content or audio digital content, individually or in any combination,** ~~including at least one of display device or an audio output device,~~ the digital content service including,

one or more servers for providing, to the information apparatus **or the device** the digital content, the one or more servers being distinct and separate from the information apparatus and the device, and

one or more server applications **executable** at the one or more servers for **managing at least part of the digital content service** ~~generating the device dependent output data~~, the digital content service method comprising:

receiving, from the information apparatus **or the device,** by the one or more servers, security or authentication information associated with **[[**the**]]** **a** user operating the information apparatus **or the device** for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus **or the device** by the one or more servers, payment or subscription information for accessing **one or more digital content available at a content server operated, at least in part, by** the digital content service;

receiving, at the one or more servers, an object from the information apparatus **or the device** over the network that includes the Internet, the object including

information corresponding to at least one of device identification information, model information, brand information, **or** registration information~~, or IP address information~~, individually or in any combination;

providing, to the information apparatus **or the device,** by the one or more servers, ~~at least part of~~ one or more pointers or references to **at least part of the** one or more digital content available at **[[**a**]] the** content server for selection by **[[**a**]] the** user at the information apparatus **or the device**;

receiving, at the one or more servers, a pointer or reference to **[[**a**]]** selected digital content from among the ~~at least part of~~ one or more pointers or references provided**, by the one or more servers,** to the information apparatus **or the device** ~~by the one or more servers~~;

retrieving, by the one or more server applications, at least part of the selected digital content from the content server employing, at least in part, the pointer or reference to the selected digital content received from the information apparatus **or the device**;

generating ~~the device dependent~~ output data, at the one or more servers with the one or more server applications, **the output data being related to at least part of the selected digital content, and** the generating of the ~~device dependent~~ output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of at least part of the **selected digital content; and**

~~device dependent output data that is device specific and is acceptable for rendering at the device, the generated device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information included in the object and received by the one or more servers from the information apparatus over the network that includes the Internet; and~~

transmitting, by the one or more servers, at least part of the generated ~~device dependent~~ output data to the information apparatus **or the device** for rendering at least

part of the selected digital content at ~~a display device or an audio output device associated with~~ the information apparatus **or the device; and**

wherein the generated output data is, at least in part, device dependent for rendering at the information apparatus or the device, and the output data having a relationship, at least in part, to the information included in the object and received by the one or more servers from the information apparatus or the device over the network that includes the Internet.

132. (Currently amended) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus **or the device**, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Previously presented) The method of claim 131 in which the information apparatus and the device is part of an output system that includes a television.

134. (Currently amended) The method of claim 131 in which the encryption scheme includes use of security keys for generating the ~~device dependent~~ output data.

135. (Currently amended) The method of claim 131 in which the device **is at least one of a television, an output controller connectable with a television, an audio output device, a music output device, or a projection device, individually or in any combination**~~which is associated with the information apparatus is wired connected to the information apparatus~~.

136. (Currently amended) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus **or the device**, at least part of the ~~device dependent~~ output data from the one or more servers; and

decoding, by the client application at the information apparatus **or the device**, at least part of the ~~device dependent~~ output data received from the one or more servers for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of a palmtop computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Currently amended) The method of claim 131 in which the payment or subscription information is provided automatically **when the digital content service is accessed** by the information apparatus **or the device**.

139. (Currently amended) The method of claim 131 in which the payment or subscription information is provided through the information apparatus **or the device** as entered by a user in response to a prompt to enter payment or subscription information.

140. (Previously presented) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Currently amended) The method of claim **[[**140**]]** **131** in which the device includes a display screen associated with the information apparatus.

142. (Previously presented) The method of claim 131 in which the device, which is associated with the information apparatus, includes at least one of a television, an

audio output device, or a music output device, individually or in any combination.

143. (Currently amended) The method of claim 131 further comprising establishing a communication channel between the information apparatus **or the device** and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Currently amended) The method of claim 131 in which the device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the ~~device dependent~~ output data includes audio data;

(2) a display device or a projection device and wherein the ~~device dependent~~ output data includes video data; or

(3) a television and wherein the ~~device dependent~~ output data includes audio data and video data.

145. (Currently amended) The method of claim 131 further comprising a client application that is installable by the user at the information apparatus **or the device**, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the ~~device dependent~~ output data corresponding to at least part of the digital content.

146. (Currently amended) The method of claim 131 in which the device or the information apparatus decodes and decompresses at least part of the ~~device dependent~~ output data for rendering at least part of the selected digital content.

147. (Currently amended) The method of claim 131 in which generating at least part of the ~~device dependent~~ output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein **upon execution of at least part of the client application by the processor at** the information apparatus**, the information apparatus** is **configured** ~~operable~~ for:

~~installing at least part of the client application for expanding functionalities of the information apparatus;~~

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

delivering, from the information apparatus, at least part of an object to the one or more servers over a network, the object including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are

stored in the one or more servers;

receiving, by the information apparatus and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, information associated with **[[a]]** selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least a pointer or reference to the selected digital content;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers related, at least in part, to the information included in the object delivered from the information apparatus, and the device dependent output data received from the one or more servers further including an encryption scheme for ensuring security of at least part of the device dependent output data; and

decoding, at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering of at least part of the selected digital content.

149. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for rendering at least part of the device dependent output data.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Previously presented) The apparatus of claim 148 further comprising transmitting at least part of the device dependent output data to an output device or device for rendering, the output device or device including one or more of a display device, a projection device, a television device, an audio output device, and an output controller wire connected to a television, individually or in any combination.

152. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device or device as one of one or more output devices or devices that are discovered by the information apparatus as being available for rendering at least part of the selected digital content.

153. (Previously presented) The apparatus of claim 148 in which the information apparatus further includes one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units included at the information apparatus.

154. (Currently amended) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, **[[a]]** selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 148 in which the information apparatus is at least one of a desktop computer, a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Currently amended) A method for accessing digital content, by an ~~information~~ apparatus over a network that includes the Internet, the ~~information~~ apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the ~~information~~ apparatus, the method comprising:

establishing a connection between the ~~information~~ apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the ~~information~~ apparatus;

receiving, at the ~~information~~ apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the ~~information~~ apparatus;

delivering, from the ~~information~~ apparatus to the one or more servers, at least a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the ~~information~~ apparatus, from among the one or more pointers or references provided, at least in part, to the ~~information~~ apparatus by the one or more servers;

delivering, from the ~~information~~ apparatus, one or more objects to the one or more servers, the one or more objects including information corresponding to at least one of device identification information, model information, brand information, **or** registration information~~, and IP address information~~, individually or in any combination;

sending, from the ~~information~~ apparatus to the one or more servers over the network, security or authentication information associated with a user operating the ~~information~~ apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the ~~information~~ apparatus, from the one or more servers **operated at least partly by the digital content service**, device dependent output data corresponding to the digital content and having a relationship, at least in part, to the one or more objects delivered from the ~~information~~ apparatus to the one or more servers over the network that includes the Internet, and the device dependent output data corresponding to the digital content further including an encryption scheme for ensuring

security of the digital content for rendering at least part of the device dependent output data.

158. (Currently amended) The method of claim 157 further comprising:

establishing a connection between the ~~information~~ apparatus and a television or an output controller connected to a television; and

transmitting, by the ~~information~~ apparatus, at least part of the digital content over the connection for rendering of the at least part of the digital content at the television.

159. (Currently amended) The method of claim 157 in which the ~~information~~ apparatus is at least one of a palmtop computer, a desktop computer, a networked computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Currently amended) The method of claim 157 further comprising sending payment or subscription information from the ~~information~~ apparatus to the one or more servers over the network as payment or subscription for digital content service.

161. (Currently amended) The method of claim 157 in which the ~~information~~ apparatus includes a display screen or speaker for rendering or outputting at least part of the digital content received from the one or more servers.

162. (Previously presented) The method of claim 157 in which the one or more objects includes at least part of the digital content for storing at the one or more servers.

163. (Currently amended) The method of claim 157 in which the ~~information~~ apparatus is part of an output system that includes a television, **and** at least part of the output system **is** operable for accessing the digital content service over the Internet.

164. (Currently amended) The method of claim 157 in which the ~~information~~

apparatus is wired connected to a television.

165. (Currently amended) The method of claim 157 in which the ~~information~~ apparatus includes a network communication unit and the method further comprising the ~~information~~ apparatus establishing a wired or wireless connection, via the network communication unit, with at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the digital content over the wired or wireless connection for rendering.

166. (Currently amended) The method of claim 157 further comprising decoding or decompressing at least part of the device dependent output data corresponding to at least part of the digital content at the ~~information~~ apparatus for rendering.

167. (Currently amended) ~~An output~~ **A** system for accessing **[[a]]** digital content service over a network and for receiving device dependent output data from one or more servers over the network **for rendering**, the device dependent output data corresponding to at least part of digital content that is ~~device specific and is~~ acceptable for rendering at the ~~output~~ system, the ~~output~~ system comprising:

~~an information apparatus;~~

a processor;

a device that is at least one of a display device, or a projection device, or an audio output device, for rendering at least part of the device dependent output data;

a display screen or projection medium;

an operating system;

a client application having a graphical user interface over the display screen or projection medium for interacting with a user of the ~~output~~ system, the client application facilitated at least partly by the operating system included in the ~~output~~ system;

wherein, the ~~output~~ system is operable for:

establishing a communication channel between the ~~output~~ system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display screen or projection medium, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, from a user of the ~~output~~ system via the graphical user interface, **[[**a**]]** selected digital content from among the one or more pointers or references to the one or more digital content provided for selection;

delivering, from the ~~output~~ system, at least part of a content object to the one or more servers over the network, the one or more servers being distinct and separate devices from the ~~output~~ system, the content object including the pointer or reference to the selected digital content;

delivering, by the ~~output~~ system, at least part of an object to the one or more servers over the network, the one or more servers being distinct and separate devices from the ~~output~~ system, the object including information related to at least part of the ~~output~~ system;

sending, from the ~~output~~ system to the one or more servers over the network, security or authentication information associated with the user of the ~~output~~ system for authentication of the user;

sending, from the ~~output~~ system to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, at the ~~output~~ system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information included in the object delivered from the ~~output~~ system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the ~~output~~ system for rendering;

decoding at least part of the device dependent output data at the ~~output~~ system

for rendering at least part of the selected digital content by the ~~output~~ system; and

rendering by the at least one of a display device, or a projection device, or an audio output device included in the ~~output~~ system, at least part of the selected digital content that includes, at least in part, video or audio content.

168. (Currently amended) The system of claim 167 in which the object includes a device identification information or an address, and the ~~output~~ system is further operable for obtaining an object, the obtaining of the object includes obtaining information from at least one of the following: (1) user input, (2) a communication with a device, (3) obtaining information from one or more devices, (4) retrieving a parameter stored in the ~~output~~ system, or (5) a default parameter or preference associated with the ~~output~~ system, individually or in any combination.

169. (Currently amended) The system of claim 167 wherein the ~~output~~ system includes at least one of a television system, an output controller connected to a television, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance or a digital camera, individually or in any combination.

170. (Currently amended) The system of claim 167 in which **the system includes an information apparatus, and** the device and the information apparatus are wire connected.

171. (Currently amended) The system of claim 167 wherein **the system includes an information apparatus and** the ~~output~~ system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at a device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an

output system, over a network that includes the Internet, ~~at least part of device dependent output data corresponding to~~ digital content that ~~includes audio or video content~~ is acceptable for rendering at the output system, the output system including **one or more devices,** ~~an information apparatus, a client application, and at least one of a display device or an audio output device,~~ the digital content service system comprising:

one or more servers that are distinct and separate from the output system**[[,]];**

one or more processors included in the one or more servers;

one or more server applications executable, at least partly, by the one or more processors at on the one or more servers to facilitate operations of the one or more servers;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; wherein

the one or more servers **are** ~~being~~ operable to**:**

receive, from the output system, security or authentication information associated with a user for authentication of the user;

receive, from the output system, information relating to at least part of the output system that includes one or more devices;

receive, from the output system, a content object ~~and at least part of an object~~, the content object including at least a pointer or reference to **[[**the**]]** **selected** digital content, the pointer or the reference being related to a selection by a user from among one or more pointers or references to digital content provided, at least in part, to the output system by the one or more servers**;[[,]]**

~~the object having information corresponding to the output system, the one or more servers being further operable to receive, from the output system, security or authentication information associated with the user for authentication of the user, and the one or more servers being further operable to~~

receive, from the output system, payment or subscription information to enable transmitting at least part of the **selected** ~~device dependent output data corresponding to the~~ digital content to the output system;

obtaining, by the one or more server applications**, output data related, at least**

partly, to the selected digital content, the obtaining of the output data being ~~on the one or more servers for generating the device dependent output data~~ after having received **[[a]]** selected digital content and at least **the** payment or subscription information, **at least part of** the ~~device dependent~~ output data **has** ~~having~~ a relationship, at least in part, to the information ~~related~~ **relating** to the output system **received by the one or more servers**, and **at least part of** the ~~generating of the device dependent~~ output data includes (1) ~~applying~~ a compression operation **applied** on at least part of the **selected** digital content, and (2) ~~applying~~ an encryption scheme **associated** with one or more security keys **applied on at least part of the selected digital content** for ensuring security of the **selected digital content** ~~device dependent output data that is device specific for rendering~~; **and**

wherein the output data is device dependent for rendering at the output system that includes one or more devices, and at least part of the output data is for transmitting to the output system that is acceptable for rendering at least part of the selected digital content at the output system, the selected digital content includes at least one of audio digital content or video digital content, individually or in any combination.

~~one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications;~~

~~wherein, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content that includes audio or video content.~~

173. (Currently amended) The system of claim 172 wherein **the output system includes a client application, and the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the output data that is device dependent for rendering at the output system, and** the client application is further operable for decoding at least part of the ~~device dependent~~ output data received from the one or more servers for rendering at the output system ~~at least part of the digital content~~.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device and the device dependent output data includes audio data.

175. (Currently amended) The system of claim 172 in which the output system is a television system, and the **television system includes at least one of a television, an output controller connectable to a television, a display device, or an audio output device, individually or in any combination.** ~~information apparatus and the at least one of a display device and an audio output device is part of a television system.~~

176. (Currently amended) The system of claim 172 in which the content object received from the output system includes a pointer or reference to **[[**a**]]** selected digital content, and the one or more server applications further retrieve **at least part of** the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device **at a server system**, containing one or more server applications executable by **one or more processors** ~~a processor~~ at **[[**a**]] one or more servers in the** server system for transmitting device dependent output data acceptable for rendering at an output system, the output system including one or more **devices, and** ~~of a display device, a projection device, an audio output device, a television, an information apparatus, or a display screen associated with an information apparatus, individually or combination,~~ the server system including one or more servers that are accessible by **the one or more devices** ~~an information apparatus~~ over a network that includes the Internet, the server system being distinct and separate from ~~the information apparatus and~~ the **one or more devices of the** output system, the one or more server applications in the computer memory or storage device, when executed by the **one or more processors** ~~processor~~ at the server system, ~~enables:~~ **configures** the server system to:

receive, by the server system from the output system ~~that includes an information~~

~~apparatus~~, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system from among one or more pointers or references provided, at least in part, to the output system by the server system;

receive, by the server system from the output system ~~that includes an information apparatus~~, one or more objects, the one or more objects having information related to the output system **that includes one or more devices**; and

receive, by the server system and from the output system ~~that includes an information apparatus~~, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system ~~that includes an information apparatus~~;

generate, by the server system, the ~~device dependent~~ output data associated with at least part of the digital content ~~for rendering at the output system~~, the ~~device dependent~~ output data ~~associated with at least part of the digital content~~ having a relationship, at least in part, to the information included in the one or more objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital content for transmitting the ~~device dependent~~ output data associated with **at least part of** the digital content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content ~~that is device dependent~~ for rendering **at the output system**; and

transmit, by the server system, at least part of the ~~device dependent~~ output data associated with at least part of the digital content **that includes the encryption scheme applied,** to the output system over the network that includes the Internet after having received at least the security or authentication information, the one or more content objects, and the one or more objects from the output system; **and**

wherein the one or more devices of the output system include at least an

information apparatus, and at least part of the transmitted output data being device dependent for rendering at least part of the digital content at the output system that includes the one or more devices.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Currently amended) The memory or storage device of claim 177 in which the output system that includes an information apparatus further renders at least part of the ~~device dependent~~ output data at the display screen of the information apparatus.

180. (Currently amended) In a non-transitory computer memory or storage device at one or more servers or at an information apparatus, containing client software **configured to be** executable**, at least partly,** by a processor at **[[**an**]] the** information apparatus for obtaining ~~device-dependent output data~~ **digital content from a digital content service operated, at least partly, over the Internet, the obtained digital content being at least partly encoded with an encryption scheme that is acceptable** for rendering at **one or more devices** ~~a device associated with the information apparatus, the device including at least one of a display device or an audio output device,~~ the information apparatus including a graphical user interface over a display screen for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the ~~device-dependent output data corresponding to~~ digital content ~~that~~ includes video content or audio content for rendering, **wherein** the computer memory or storage device containing the client software **that is configured to be executable, at least partly, by the processor at the information apparatus,** comprising:

software ~~executable at the information apparatus~~ for establishing a communication channel between the information apparatus and one or more servers over a network that includes the Internet**, the one or more servers being distinct and separate device from the information apparatus and the one or more devices**; and

software for sending, from the information apparatus to the one or more

servers over a network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user; and

software for obtaining one or more objects related to the one or more devices, the one or more objects including device information related, at least in part, to at least one of device identification information, model information, brand information, or registration information, individually or in any combination; and

software ~~executable at the information apparatus~~ for providing over the graphical user interface at the display screen, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software ~~executable at the information apparatus~~ for receiving **[[a]]** selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software ~~executable at the information apparatus~~ for obtaining a content object that includes a pointer or reference to the selected digital content; and

software ~~executable at the information apparatus~~ for delivering, from the information apparatus, at least part of the content object and at least part of **[[an]]** **the one or more objects** ~~object~~ to the one or more servers**; and**

~~that is distinct and separate from the information apparatus and device, the content object being associated with the selected digital content, and the object including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination, the content object and the object being required at the one or more servers for generating at least part of device dependent output data corresponding at least partly to the selected digital content and for rendering at the device; and~~

~~software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user; and~~

software ~~executable at the information apparatus~~ for receiving, at the information

apparatus, **[[**the**]]** device dependent output data ~~for rendering at the device~~, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the **device** information **included in the one or more objects** ~~related to the device included in the object~~ delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

software ~~executable at the information apparatus~~ for decoding at least part of the device dependent output data that includes an encryption scheme received from the one or more servers; and

software ~~executable at the information apparatus~~ for rendering at least part of the decoded device dependent output data **related, at least in part, to the selected digital content at the one or more devices**.

181. (Previously presented) The non-transitory computer memory or storage device of claim 180 wherein the client application is facilitated by the operating system for installing the client application, by the user at the information apparatus, for expanding the functionalities of the information apparatus.

182. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the **at least one device of the one or more devices is associated with the information apparatus, and the at least one device is at least one of a display device or an audio output device that is** ~~device is~~ wire connected to the information apparatus.

183. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

184. (Currently amended) The non-transitory computer memory or storage

device of claim 180 in which the ~~device is~~ **one or more devices are either a projection device,** a display screen, or a television, and the device dependent output data includes video data, and wherein a connection between the information apparatus and the device includes a wired connection.

185. (Previously presented) The non-transitory computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, audio data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The non-transitory computer memory or storage device of claim 180 in which the ~~information apparatus and the device~~ **one or more devices include one or more of a television or an output controller connectable to a television, and** ~~are part of an output system, and the device is associated with a television, and the information apparatus delivers over wireless communication at least part of~~ the **selected** digital content ~~that~~ includes video content or audio content ~~to the television~~ for rendering at the television.

187. (Previously presented) The non-transitory computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188. (Previously presented) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus.

189. (Previously presented) The memory or storage device of claim 177 in which

the output system includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or the projection device.

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Previously presented) The memory or storage device of claim 177 in which the one or more objects include identification, a pointer, or a reference, the identification including one or more of a device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Currently amended) The system of claim 172 in which the **information associated with the output system includes information corresponding to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination, associated with the one or more devices included in the output system**. ~~one or more content objects further includes at least part of the digital content for storing at the one or more content servers~~.

193. (Currently amended) The system of claim 172 in which the **output system includes an** information apparatus **that is at least one of an e-book, a smart phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.** ~~and the at least one of a display device an audio output device included in the output system are wire connected.~~

194. (Currently amended) The system of claim 167 **in which the system includes an information apparatus for receiving the device dependent output**

data, and the information apparatus further enables operations for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Currently amended) The system of claim 167 in which **the system includes an information apparatus, and** the information apparatus is connected to the device over a wireless network connection or a wired connection.

196. (Currently amended) The system of claim 167 in which the ~~output~~ system is a television system.

197. (Currently amended) The system of claim 167 in which the communication channel over the network between the ~~output~~ system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Currently amended) The system of claim 167 in which **the system includes an information apparatus, and** the information apparatus is at least one of a laptop computer, a desktop computer, a networked computer, a smart phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination, and the information apparatus is operable for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network.

199. (Currently amended) The method of claim 157 in which the ~~information~~ apparatus includes a wireless communication unit and the connection between the ~~information~~ apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication unit of the ~~information~~ apparatus.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated August 11, 2016

A Notice of Allowance was mailed on August 11, 2016 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Title of Application

Applicant has made minor amendments to the title for clarity and consistency.

4. Claims of Application

Because Applicant is filing a Request for Continued Examination, Applicant has taken the opportunity to amend the claims of the application to improve consistency and clarity. Applicant corrected some antecedence errors as well as improved readability of the claims. Applicant respectfully requests entry of the above claim amendments as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on November 14, 2016.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

KOLISCH HARTWELL, P.C.

/Peter D. Sabido/

Peter D. Sabido
Registration No. 50353
Customer No. 23581
Attorney for Assignee
520 SW Yamhill Street, Suite 200
Portland, Oregon 97204-1324
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PTO/SB/08a (03-15)
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6816724		2004-11-09	Asikainen	
	2	9383956		2016-07-05	Chang et al.	
	3	9389822		2016-07-12	Chang et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20160239232		2016-08-18	Chang et al.	
	2	20160239243		2016-08-18	Chang et al.	
	3	20160313974		2016-10-27	Chang et al.	

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FOREIGN PATENT DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 11/933,031, October 5, 2016, 12 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-11-14
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2ND AND SUBSEQUENT REQUEST	2820	1	850	850
		Total in USD ($)		**850**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	27507161
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	14-NOV-2016
Filing Date:	18-NOV-2001
Time Stamp:	18:26:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$850

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

RAM confirmation Number	111516INTEFSW18274100
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	20161114_RCE_FXT312.pdf	1349866 ca357a693aa2f2ec37e1a139a6ec3eec62f8	no	3
Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20161114_Amendment_Accompanying_RCE_FXT312.pdf	178553 a95078944a74d55e03f010dc0df8a0e63	no	28
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20161114_IDS_FXT312.pdf	1035205 8734e2567067f2ea0761d9125a8804a202	no	4
Warnings:					
Information:					
4	Non Patent Literature	NPL1_20161005_NOA.pdf	876379 a87dde61d2aa1a0aa1aa055624af94f12f119f1	no	12
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	31024 1176d2658825e8ad9806fc2aaed4fd0ee1a	no	2
Warnings:					
Information:					

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Lexmark v. Flexiworld

Total Files Size (in bytes):	3471027

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Lexmark v. Flexiworld

PTO/SB/06 (09-11)
Approved for use through 1/31/2014 OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	11/14/2016	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	· 69	Minus	·· 69	= 0	X $40 =	0
	Independent (37 CFR 1.16(h))	· 7	Minus	···7	= 0	X $210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
VIKKI GRAY

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 08/11/2016

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 08/11/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	11/14/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 08/11/2016

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES, AND INFORMATION APPARATUS THAT I

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	11/14/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2458	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 08/11/2016

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 08/11/2016

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2458	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *1/5/2016*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1/5/2016, 1/11/2016, 2/22/16, 3/7/16, 6/29/16
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2458

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20150381612		2015-12-31	Chang et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	02/04/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-01-11
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
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Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Office action for U.S. Patent Application Serial No. 11/933,031, February 10, 2016, 106 pages.	

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EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	08/04/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-02-22
Name/Print	Peter D. Sabido	Registration Number	50353

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Receipt date: 06/29/2016
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9298407		2016-03-29	Chang et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20160011836		2016-01-14	Chang et al.	
	2	20160174068		2016-06-16	Chang et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 06/29/2016

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Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	08/04/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 06/29/2016

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First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-06-29
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 06/29/2016

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/04/2016
	1	÷	-	-	-	-	-	-	-	-
	2	÷	-	-	-	-	-	-	-	-
	3	÷	-	-	-	-	-	-	-	-
	4	÷	-	-	-	-	-	-	-	-
	5	÷	-	-	-	-	-	-	-	-
	6	÷	-	-	-	-	-	-	-	-
	7	÷	-	-	-	-	-	-	-	-
	8	÷	-	-	-	-	-	-	-	-
	9	÷	-	-	-	-	-	-	-	-
	10	÷	-	-	-	-	-	-	-	-
	11	÷	✓	-	-	-	-	-	-	-
	12	÷	✓	-	-	-	-	-	-	-
	13	÷	✓	-	-	-	-	-	-	-
	14	÷	✓	-	-	-	-	-	-	-
	15	÷	✓	-	-	-	-	-	-	-
	16	÷	✓	-	-	-	-	-	-	-
	17	÷	✓	-	-	-	-	-	-	-
	18	÷	✓	-	-	-	-	-	-	-
	19	÷	✓	-	-	-	-	-	-	-
	20	÷	✓	-	-	-	-	-	-	-
	21	÷	✓	-	-	-	-	-	-	-
	22	÷	✓	-	-	-	-	-	-	-
	23	÷	-	-	-	-	-	-	-	-
	24	÷	-	-	-	-	-	-	-	-
	25	÷	-	-	-	-	-	-	-	-
	26	÷	-	-	-	-	-	-	-	-
	27	÷	-	-	-	-	-	-	-	-
	28	÷	-	-	-	-	-	-	-	-
	29	÷	-	-	-	-	-	-	-	-
	30	÷	-	-	-	-	-	-	-	-
	31	÷	-	-	-	-	-	-	-	-
	32	÷	✓	-	-	-	-	-	-	-
	33	÷	✓	-	-	-	-	-	-	-
	34	÷	✓	-	-	-	-	-	-	-
	35	÷	✓	-	-	-	-	-	-	-
	36	÷	✓	-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/04/2016
	37	÷	✓	-	-	-	-	-	-	-
	38	÷	✓	-	-	-	-	-	-	-
	39	÷	✓	-	-	-	-	-	-	-
	40	÷	✓	-	-	-	-	-	-	-
	41	÷	✓	-	-	-	-	-	-	-
	42	÷	✓	-	-	-	-	-	-	-
	43	÷	✓	-	-	-	-	-	-	-
	44	÷	✓	-	-	-	-	-	-	-
	45	÷	✓	-	-	-	-	-	-	-
	46	÷	✓	-	-	-	-	-	-	-
	47	÷	✓	-	-	-	-	-	-	-
	48	÷	✓	-	-	-	-	-	-	-
	49	÷	✓	-	-	-	-	-	-	-
	50	÷	✓	-	-	-	-	-	-	-
	51	÷	✓	-	-	-	-	-	-	-
	52	÷	✓	-	-	-	-	-	-	-
	53	÷	✓	-	-	-	-	-	-	-
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	56	÷	✓	-	-	-	-	-	-	-
	57	÷	✓	-	-	-	-	-	-	-
	58	÷	✓	-	-	-	-	-	-	-
	59	÷	-	-	-	-	-	-	-	-
	60	÷	-	-	-	-	-	-	-	-
	61	÷	-	-	-	-	-	-	-	-
	62	÷	-	-	-	-	-	-	-	-
	63	÷	-	-	-	-	-	-	-	-
	64	÷	-	-	-	-	-	-	-	-
	65	÷	-	-	-	-	-	-	-	-
	66			-	-	-	-	-	-	-
	67			-	-	-	-	-	-	-
	68			-	-	-	-	-	-	-
	69			-	-	-	-	-	-	-
	70			-	-	-	-	-	-	-
	71			-	-	-	-	-	-	-
	72			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/04/2016
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	74			-	-	-	-	-	-	-
	75			-	-	-	-	-	-	-
	76			-	-	-	-	-	-	-
	77			-	-	-	-	-	-	-
	78			-	-	-	-	-	-	-
	79			-	-	-	-	-	-	-
	80			-	-	-	-	-	-	-
	81			-	-	-	-	-	-	-
	82			-	-	-	-	-	-	-
	83			-	-	-	-	-	-	-
	84			-	-	-	-	-	-	-
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	101			-	-	-	-	-	-	-
	102			-	-	-	-	-	-	-
	103			-	-	-	-	-	-	-
	104			-	-	-	-	-	-	-
	105			-	-	-	-	-	-	-
	106			-	-	-	-	-	-	-
	107			-	-	-	-	-	-	-
	108			-	-	-	-	-	-	-

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	109			-	-	-	-	-	-	-
	110			-	-	-	-	-	-	-
	111			-	-	-	-	-	-	-
	112			-	-	-	-	-	-	-
	113			-	-	-	-	-	-	-
	114			-	-	-	-	-	-	-
	115			-	-	-	-	-	-	-
	116			-	-	-	-	-	-	-
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	118			-	-	-	-	-	-	-
	119			-	-	-	-	-	-	-
	120			-	-	-	-	-	-	-
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	122			-	-	-	-	-	-	-
	123			-	-	-	-	-	-	-
	124			-	-	-	-	-	-	-
	125			-	-	-	-	-	-	-
	126			-	-	-	-	-	-	-
	127			-	-	-	-	-	-	-
	128			-	-	-	-	-	-	-
	129			-	-	-	-	-	-	-
	130			-	-	-	-	-	-	-
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9	139			✓	✓	✓	✓	✓	=	=
10	140			✓	✓	✓	✓	✓	=	=
11	141			✓	✓	✓	✓	✓	=	=
12	142			✓	✓	✓	✓	✓	=	=
13	143			✓	✓	✓	✓	✓	=	=
14	144			✓	✓	✓	✓	✓	=	=

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16	146			✓	✓	✓	✓	✓	=	=
17	147			✓	✓	✓	✓	✓	=	=
18	148			✓	✓	✓	✓	✓	=	=
19	149			✓	✓	✓	✓	✓	=	=
20	150			✓	✓	✓	✓	✓	=	=
21	151			✓	✓	✓	✓	✓	=	=
22	152			✓	✓	✓	✓	✓	=	=
23	153			✓	✓	✓	✓	✓	=	=
24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
27	157			✓	✓	✓	✓	✓	=	=
28	158			✓	✓	✓	✓	✓	=	=
29	159			✓	✓	✓	✓	✓	=	=
30	160			✓	✓	✓	✓	✓	=	=
31	161			✓	✓	✓	✓	✓	=	=
32	162			✓	✓	✓	✓	✓	=	=
33	163			✓	✓	✓	✓	✓	=	=
34	164			✓	✓	✓	✓	✓	=	=
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46	176			✓	✓	✓	✓	✓	=	=
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49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/04/2016
51	181			✓	✓	✓	✓	✓	=	=
52	182			✓	✓	✓	✓	✓	=	=
53	183			✓	✓	✓	✓	✓	=	=
54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
61	191			✓	✓	✓	✓	✓	=	=
62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
64	194			✓	✓	✓	✓	✓	=	=
65	195			✓	✓	✓	✓	✓	=	=
66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC						
Symbol					Type	Version
G06F		3	/	126	F	2013-01-01
G06F		3	/	1204	I	2013-01-01
G06F		3	/	1247	I	2013-01-01
G06F		3	/	1288	I	2013-01-01
G06F		3	/	1292	I	2013-01-01
G06Q		20	/	102	I	2013-01-01
G06Q		40	/	00	I	2013-01-01
H04L		12	/	2805	I	2013-01-01
H04L		12	/	2809	A	2013-01-01
H04L		12	/	2812	I	2013-01-01
H04L		12	/	2834	A	2013-01-01
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H04L		67	/	2823	I	2013-01-01
H04L		67	/	303	I	2013-01-01
H04L		67	/	2828	I	2013-01-01
H04L		67	/	04	A	2013-01-01
H04L		67	/	28	I	2013-01-01

CPC Combination Sets								
Symbol					Type	Set	Ranking	Version
			/					
			/					

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	2/4/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20160204

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
709	217	G	0	6	F	15 / 16 (2006.0)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	2/4/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20160204

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Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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	2		29		56		83		110	7	137	34	164	61	191
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	13		40		67		94		121	18	148	45	175		
	14		41		68		95		122	19	149	46	176		
	15		42		69		96		123	20	150	47	177		
	16		43		70		97		124	21	151	48	178		
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	18		45		72		99		126	23	153	50	180		
	19		46		73		100		127	24	154	51	181		
	20		47		74		101		128	25	155	52	182		
	21		48		75		102		129	26	156	53	183		
	22		49		76		103		130	27	157	54	184		
	23		50		77		104	1	131	28	158	55	185		
	24		51		78		105	2	132	29	159	56	186		
	25		52		79		106	3	133	30	160	57	187		
	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2458	2/4/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2458

CPC- SEARCHED		
Symbol	Date	Examiner
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and (pointer or reference)	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	9/22/2015	EBH
Update Search	2/4/2016	EBH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

SEARCH NOTES		
Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB
Update Search	2/6/2015	EBH
Update Search	5/28/2015	EBH
Update Search	9/22/2015	EBH
Update Search	2/4/2016	EBH

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH
	See Interference Search History	5/29/2015	EBH
	See Interference Search History	9/22/2015	EBH
	See Interference Search History	2/4/2016	EBH

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	4	((pointer or reference) near (content near object) same (digital near2 content)).clm.	US-PGPUB; USPAT	WITH	ON	2016/02/04 16:17
L8	94	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT	WITH	ON	2016/02/04 16:17
L9	0	((pointer or reference) near (content near object) same (device near dependent)).clm.	US-PGPUB; USPAT	WITH	ON	2016/02/04 16:17
L10	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT	WITH	ON	2016/02/04 16:18
L11	21	((device near dependent) (information near apparatus)).clm.	US-PGPUB; USPAT	WITH	ON	2016/02/04 16:20

2/ 4/ 2016 4:29:39 PM
C:\ Users\ ebenoit\ Documents\ EAST\ Workspaces\ 09992413.wsp

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9164718		2015-10-20	Chang et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20150356561		2015-12-10	Chang et al.	
	2	20150356564		2015-12-10	Chang et al.	
	3	20150356565		2015-12-10	Chang et al.	
	4	20150363763		2015-12-17	Chang et al.	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 12/204,695, September 28, 2015, 33 pages.	
	2	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 12/204,689, October 5, 2015, 33 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	02/04/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-01-05
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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The information provided by you in this form will be subject to the following routine uses:

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L3	7	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((compress$5 or compact$4 or shrink$4 or condens$6) near2 (data or object or content or media or file or information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2016/02/04 16:10
L4	29	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2016/02/04 16:11
L5	30	((select$4 or choos$4) near (pointer or reference)) near (user or client) near2 (list or table)	US-PGPUB; USPAT	WITH	ON	2016/02/04 16:11
L6	29	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2016/02/04 16:16

2/4/2016 4:21:41 PM
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Receipt date: 03/07/2016
PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

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Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 12/204,695, February 26, 2016, 13 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	08/04/2016

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

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Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-03-07
Name/Print	Peter D. Sabido	Registration Number	50353

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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PTO/SB/08a (03-15)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9298407		2016-03-29	Chang et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20160011836		2016-01-14	Chang et al.	
	2	20160174068		2016-06-16	Chang et al.	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	26217873
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	29-JUN-2016
Filing Date:	18-NOV-2001
Time Stamp:	19:31:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20160629_IDS_FXT312.pdf	1034972 2fc9e1632f8097a7aeeBeeR0925e067e0da74	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	1034972		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
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(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

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	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 12/204,695, February 26, 2016, 13 pages.

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Examiner Signature		Date Considered	

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Electronic Acknowledgement Receipt

EFS ID:	25124362
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
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First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	07-MAR-2016
Filing Date:	18-NOV-2001
Time Stamp:	16:26:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20160307_IDS_FXT312.pdf	612392 9e27a03df9ac4d5a6e1a66155826fa4ac8f4ac91	no	4
Warnings:					
Information:					
A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.					
2	Non Patent Literature	NPL1_20160226_NOA.pdf	8004851 8d3871ac52ceaac817268df13ae6e2a19fd9d3	no	13
Warnings:					
Information:					
		Total Files Size (in bytes):	8617243		

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New International Application Filed with the USPTO as a Receiving Office
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
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	Attorney Docket Number	FXT312

	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Office action for U.S. Patent Application Serial No. 11/933,031, February 10, 2016, 106 pages.

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-02-22
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	24984167
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	22-FEB-2016
Filing Date:	18-NOV-2001
Time Stamp:	16:50:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20160222_IDS_FXT312.pdf	612370 c09a5666e...289b	no	4
Warnings:					
Information:					
A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.					
2	Non Patent Literature	NPL1_20160210_OA.pdf	5894408 ...9247	no	106
Warnings:					
Information:					
		Total Files Size (in bytes):	6506778		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20150381612		2015-12-31	Chang et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

	1	

If you wish to add additional non-patent literature document citation information please click the Add button | Add |

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

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OR

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-01-11
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	24588024
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	11-JAN-2016
Filing Date:	18-NOV-2001
Time Stamp:	16:14:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20160111_IDS_FXT312.pdf	612299 61[illegible]4d07	no	4
Warnings:					
Information:					
		Total Files Size (in bytes):	612299		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2458
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit Henderson		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 111540

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

Applicant Signature

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-01-05
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: January 5, 2016

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For :		Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That Includes Or Installs An Application For Accessing The Digital Content Services Or Stores (as currently amended)
Examiner	:	Esther Benoit Henderson
Art Unit	:	2458
Confirmation No.	:	5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 3
Amendments to the Drawings	None
Remarks	Begin on page 24

Amendments to the Specification

Please make the amendments below to the specification. Material to be deleted is in ~~strikeout~~.

Please amend the title as follows:

~~Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That I~~

Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That Includes Or Installs An Application For Accessing The Digital Content Services Or Stores

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Previously presented) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus for rendering at a device, the device being associated with the information apparatus and including at least one of a display device or an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus the digital content, the one or more servers being distinct and separate from the information apparatus and the device, and

one or more server applications at the one or more servers for generating the device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

receiving, at the one or more servers, an object from the information apparatus over the network that includes the Internet, the object including information corresponding to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination;

providing, to the information apparatus by the one or more servers, at least part of one or more pointers or references to one or more digital content available at a

content server for selection by a user at the information apparatus;

receiving, at the one or more servers, a pointer or reference to a selected digital content from among the at least part of one or more pointers or references provided to the information apparatus by the one or more servers;

retrieving, by the one or more server applications, at least part of the selected digital content from the content server employing, at least in part, the pointer or reference to the selected digital content received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of at least part of the device dependent output data that is device specific and is acceptable for rendering at the device, the generated device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information included in the object and received by the one or more servers from the information apparatus over the network that includes the Internet; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering at least part of the selected digital content at a display device or an audio output device associated with the information apparatus.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Previously presented) The method of claim 131 in which the information apparatus and the device is part of an output system that includes a television.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the device dependent output data.

135. (Previously presented) The method of claim 131 in which the device which is associated with the information apparatus is wired connected to the information apparatus.

136. (Previously presented) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

decoding, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of a palmtop computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information is provided automatically by the information apparatus.

139. (Previously presented) The method of claim 131 in which the payment or subscription information is provided through the information apparatus as entered by a

user in response to a prompt to enter payment or subscription information.

140. (Previously presented) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Previously presented) The method of claim 140 in which the device includes a display screen associated with the information apparatus.

142. (Previously presented) The method of claim 131 in which the device, which is associated with the information apparatus, includes at least one of a television, an audio output device, or a music output device, individually or in any combination.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the device dependent output data includes audio data;

(2) a display device or a projection device and wherein the device dependent output data includes video data; or

(3) a television and wherein the device dependent output data includes audio data and video data.

145. (Previously presented) The method of claim 131 further comprising a client

application that is installable by the user at the information apparatus, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content.

146. (Previously presented) The method of claim 131 in which the device or the information apparatus decodes and decompresses at least part of the device dependent output data for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Previously presented) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

installing at least part of the client application for expanding functionalities of the information apparatus;

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and

separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

delivering, from the information apparatus, at least part of an object to the one or more servers over a network, the object including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the information apparatus and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, information associated with a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least a pointer or reference to the selected digital content;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers related, at least in part, to the information included in the object delivered from the information apparatus, and the device dependent output data received from the one or more servers further including an encryption scheme for ensuring security of at least part of the device dependent output data; and

decoding, at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering of at least part of the selected digital content.

149. (Previously presented) The apparatus of claim 148 wherein the information

apparatus is further operable for rendering at least part of the device dependent output data.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Previously presented) The apparatus of claim 148 further comprising transmitting at least part of the device dependent output data to an output device or device for rendering, the output device or device including one or more of a display device, a projection device, a television device, an audio output device, and an output controller wire connected to a television, individually or in any combination.

152. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device or device as one of one or more output devices or devices that are discovered by the information apparatus as being available for rendering at least part of the selected digital content.

153. (Previously presented) The apparatus of claim 148 in which the information apparatus further includes one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units included at the information apparatus.

154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, a selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or

more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 148 in which the information apparatus is at least one of a desktop computer, a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Previously presented) A method for accessing digital content, by an information apparatus over a network that includes the Internet, the information apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus;

receiving, at the information apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the information apparatus;

delivering, from the information apparatus to the one or more servers, at least a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers;

delivering, from the information apparatus, one or more objects to the one or more servers, the one or more objects including information corresponding to at least

one of device identification information, model information, brand information, registration information, and IP address information, individually or in any combination;

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content and having a relationship, at least in part, to the one or more objects delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the device dependent output data corresponding to the digital content further including an encryption scheme for ensuring security of the digital content for rendering at least part of the device dependent output data.

158. (Previously presented) The method of claim 157 further comprising:

establishing a connection between the information apparatus and a television or an output controller connected to a television; and

transmitting, by the information apparatus, at least part of the digital content over the connection for rendering of the at least part of the digital content at the television.

159. (Previously presented) The method of claim 157 in which the information apparatus is at least one of a palmtop computer, a desktop computer, a networked computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the information apparatus to the one or more servers over the network as payment or subscription for digital content service.

161. (Previously presented) The method of claim 157 in which the information

apparatus includes a display screen or speaker for rendering or outputting at least part of the digital content received from the one or more servers.

162. (Previously presented) The method of claim 157 in which the one or more objects includes at least part of the digital content for storing at the one or more servers.

163. (Previously presented) The method of claim 157 in which the information apparatus is part of an output system that includes a television, at least part of the output system operable for accessing the digital content service over the Internet.

164. (Previously presented) The method of claim 157 in which the information apparatus is wired connected to a television.

165. (Previously presented) The method of claim 157 in which the information apparatus includes a network communication unit and the method further comprising the information apparatus establishing a wired or wireless connection, via the network communication unit, with at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the digital content over the wired or wireless connection for rendering.

166. (Previously presented) The method of claim 157 further comprising decoding or decompressing at least part of the device dependent output data corresponding to at least part of the digital content at the information apparatus for rendering.

167. (Previously presented) An output system for accessing a digital content service over a network and for receiving device dependent output data from one or more servers over the network, the device dependent output data corresponding to at least part of digital content that is device specific and is acceptable for rendering at the output system, the output system comprising:

an information apparatus;

a device that is at least one of a display device, or a projection device, or an audio output device, for rendering at least part of the device dependent output data;

a display screen or projection medium;

an operating system;

a client application having a graphical user interface over the display screen or projection medium for interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system is operable for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display screen or projection medium, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, from a user of the output system via the graphical user interface, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection;

delivering, from the output system, at least part of a content object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content;

delivering, by the output system, at least part of an object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the object including information related to at least part of the output system;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, at the output system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information included in the object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the output system for rendering;

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the output system; and

rendering by the at least one of a display device, or a projection device, or an audio output device included in the output system, at least part of the selected digital content that includes, at least in part, video or audio content.

168. (Previously presented) The system of claim 167 in which the object includes a device identification information or an address, and the output system is further operable for obtaining an object, the obtaining of the object includes obtaining information from at least one of the following: (1) user input, (2) a communication with a device, (3) obtaining information from one or more devices, (4) retrieving a parameter stored in the output system, or (5) a default parameter or preference associated with the output system, individually or in any combination.

169. (Previously presented) The system of claim 167 wherein the output system includes at least one of a television system, an output controller connected to a television, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance or a digital camera, individually or in any combination.

170. (Previously presented) The system of claim 167 in which the device and the

information apparatus are wire connected.

171. (Previously presented) The system of claim 167 wherein the output system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at a device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Previously presented) A digital content service system for transmitting to an output system over a network that includes the Internet, at least part of device dependent output data corresponding to digital content that includes audio or video content is acceptable for rendering at the output system, the output system including an information apparatus, a client application, and at least one of a display device or an audio output device, the digital content service system comprising:

one or more servers that are distinct and separate from the output system, the one or more servers being operable to receive from the output system a content object and at least part of an object, the content object including at least a pointer or reference to the digital content, the pointer or the reference being related to a selection by a user from among one or more pointers or references to digital content provided, at least in part, to the output system by the one or more servers, the object having information corresponding to the output system, the one or more servers being further operable to receive, from the output system, security or authentication information associated with the user for authentication of the user, and the one or more servers being further operable to receive, from the output system, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the output system;

one or more server applications on the one or more servers for generating the device dependent output data after having received a selected digital content and at least payment or subscription information, the device dependent output data having a relationship, at least in part, to the information related to the output system, and the generating of the device dependent output data includes (1) applying a compression

operation on at least part of the digital content, and (2) applying an encryption scheme with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; and

wherein, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content that includes audio or video content.

173. (Previously presented) The system of claim 172 wherein the client application is further operable for decoding at least part of the device dependent output data received from the one or more servers for rendering at the output system at least part of the digital content.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device and the device dependent output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system is a television system, and the information apparatus and the at least one of a display device and an audio output device is part of a television system.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to a selected digital content, and the one or more server applications further retrieve the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Previously presented) In a computer memory or storage device, containing one or more server applications executable by a processor at a server system for

transmitting device dependent output data acceptable for rendering at an output system, the output system including one or more of a display device, a projection device, an audio output device, a television, an information apparatus, or a display screen associated with an information apparatus, individually or combination, the server system including one or more servers that are accessible by an information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the output system, the one or more server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the output system that includes an information apparatus, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system from among one or more pointers or references provided, at least in part, to the output system by the server system;

receive, by the server system from the output system that includes an information apparatus, one or more objects, the one or more objects having information related to the output system; and

receive, by the server system and from the output system that includes an information apparatus, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system that includes an information apparatus;

generate, by the server system, the device dependent output data associated with at least part of the digital content for rendering at the output system, the device dependent output data associated with at least part of the digital content having a relationship, at least in part, to the information included in the one or more objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital content for transmitting the device dependent output data associated with the digital

content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content that is device dependent for rendering; and

transmit, by the server system, at least part of the device dependent output data associated with at least part of the digital content to the output system over the network that includes the Internet after having received at least the security or authentication information, the one or more content objects, and the one or more objects from the output system.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Previously presented) The memory or storage device of claim 177 in which the output system that includes an information apparatus further renders at least part of the device dependent output data at the display screen of the information apparatus.

180. (Currently amended) In a **non-transitory** computer memory or storage device **at one or more servers or at an information apparatus**, containing client software executable by a processor at an information apparatus for obtaining device dependent output data for rendering at a device associated with the information apparatus, the device including at least one of a display device or an audio output device, the information apparatus including a graphical user interface over a display screen for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content that includes video content or audio content for rendering, the computer memory or storage device containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network that includes the Internet; and

software executable at the information apparatus for providing over the graphical user interface at the display screen, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software executable at the information apparatus for receiving a selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content; and

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an object to the one or more servers that is distinct and separate from the information apparatus and the device, the content object being associated with the selected digital content, and the object including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination, the content object and the object being required at the one or more servers for generating at least part of device dependent output data corresponding at least partly to the selected digital content and for rendering at the device; and

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user; and

software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the device, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the information related to the device included in the object delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the device dependent output data that includes an encryption scheme received from the

one or more servers; and

software executable at the information apparatus for rendering at least part of the decoded device dependent output data.

181. (Currently amended) The **non-transitory** computer memory or storage device of claim 180 wherein the client application is facilitated by the operating system for installing the client application, by the user at the information apparatus, for expanding the functionalities of the information apparatus.

182. (Currently amended) The **non-transitory** computer memory or storage device of claim 180 in which the device is wire connected to the information apparatus.

183. (Currently amended) The **non-transitory** computer memory or storage device of claim 180 in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

184. (Currently amended) The **non-transitory** computer memory or storage device of claim 180 in which the device is a display screen or a television and the device dependent output data includes video data, and wherein a connection between the information apparatus and the device includes a wired connection.

185. (Currently amended) The **non-transitory** computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, audio data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The **non-transitory** computer memory or storage device of claim 180 in which the information apparatus and the device are part of an output system, and the device is associated with a television, and the information

apparatus delivers over wireless communication at least part of the digital content that includes video content or audio content to the television for rendering at the television.

187. (Currently amended) The **non-transitory** computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188. (Previously presented) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus.

189. (Previously presented) The memory or storage device of claim 177 in which the output system includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or the projection device.

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Previously presented) The memory or storage device of claim 177 in which the one or more objects include identification, a pointer, or a reference, the identification including one or more of a device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Previously presented) The system of claim 172 in which the one or more

content objects further includes at least part of the digital content for storing at the one or more content servers.

193. (Previously presented) The system of claim 172 in which the information apparatus and the at least one of a display device and an audio output device included in the output system are wire connected.

194. (Previously presented) The system of claim 167 further enables operations for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Previously presented) The system of claim 167 in which the information apparatus is connected to the device over a wireless network connection or a wired connection.

196. (Previously presented) The system of claim 167 in which the output system is a television system.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the output system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Previously presented) The system of claim 167 in which the information apparatus is at least one of a laptop computer, a desktop computer, a networked computer, a smart phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination, and the information apparatus is operable for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network.

199. (Previously presented) The method of claim 157 in which the information apparatus includes a wireless communication unit and the connection between the information apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication unit of the information apparatus.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated October 5, 2015

A Notice of Allowance was mailed on October 5, 2015 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined by the same Examiner in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Title of Application

Applicant notes that the Notice of Allowance mailed on October 5, 2015 and the Corrected Official Filing Receipt mailed on October 14, 2015 do not show the entire title as amended by the Amendment Accompanying RCE filed on September 3, 2015. The current title of the present application is 353 characters (with spaces), which is less than the maximum 500 characters stated in 37 C.F.R. § 1.72 and MPEP § 606. Therefore, Applicant respectfully request correct entry of the title of the present application as shown in the above amendments.

4. Claims of Application

Because Applicant is filing a Request for Continued Examination, Applicant has taken the opportunity to further review the claims in the application. Applicant notes that claims 180-187 recite a computer memory or storage device, which is a physical device and not a transitory medium (e.g., signals). Therefore, those claims do not need to be

amended to recite that the device is non-transitory." However, only for clarity and without admission, Applicant has amended claims 180-187 to recite "a non-transitory computer memory or storage device."

Applicant respectfully requests entry of the above claim amendments as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on January 5, 2016.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

KOLISCH HARTWELL, P.C.

/Peter D. Sabido/

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PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2458
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9164718		2015-10-20	Chang et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20150356561		2015-12-10	Chang et al.	
	2	20150356564		2015-12-10	Chang et al.	
	3	20150356565		2015-12-10	Chang et al.	
	4	20150363763		2015-12-17	Chang et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

	1							

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 12/204,695, September 28, 2015, 33 pages.	
	2	UNITED STATES PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 12/204,689, October 5, 2015, 33 pages.	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2458
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2016-01-05
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2nd and Subsequent Request	2820	1	850	850
		Total in USD ($)		**850**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	24533367
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	05-JAN-2016
Filing Date:	18-NOV-2001
Time Stamp:	17:13:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$850

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RAM confirmation Number	3841
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1	Request for Continued Examination (RCE)	20160105_RCE_FXT312.pdf	1349862 n5a31e9ac52c6d6359d433805dc05242265 2c9c9	no	3
Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20160105_Amendment_Accompaying_RCE_FXT312.pdf	148856 60cc6d91677bc78550e3cf553259cf9778acf 110	no	25
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20160105_IDS_FXT312.pdf	612517 0ecd6d364e0e65a257dacbc35671c2ac484 13866	no	4
Warnings:					
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4	Non Patent Literature	NPL1_20150928_NOA.pdf	18430778 c433440207146ac507511e0957e2574d023 76ec0	no	33
Warnings:					
Information:					
5	Non Patent Literature	NPL2_20151005_NOA.pdf	2429397 40cd8f33a062f916875a0f6525c19657e648 40e9	no	33
Warnings:					
Information:					
6	Fee Worksheet (SB06)	fee-info.pdf	31025 a0f6d496e8cc3a39dc27c50ddf325c649c65 1c0c	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	23002435		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 01/05/2016	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
Independent (37 CFR 1.16(h))	* 7	Minus	*** 7	= 0	x $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DONNA 1. SMALLS LOGAN/

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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
09/992,413	11/18/2001	2458	1031	FXT312	65	7

CONFIRMATION NO. 5528

CORRECTED FILING RECEIPT

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

OC000000078040151

Date Mailed: 10/14/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

Applicant(s)

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

Power of Attorney: The patent practitioners associated with Customer Number 23581

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/252,682 11/20/2000

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 04/30/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 09/992,413**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **

Title

DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 10/05/2015

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 10/05/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES; AND INFORMATION APPARATUS THAT I

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	01/05/2016

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 10/05/2015

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: DIGITAL CONTENT SERVICES OR STORES OVER THE INTERNET THAT TRANSMIT OR STREAM PROTECTED OR ENCRYPTED DIGITAL CONTENT TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISION CONTROLLER BOXES, AND INFORMATION APPARATUS THAT I

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	01/05/2016

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2458	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 10/05/2015

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PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 10/05/2015

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2453	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *9/3/2015*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/3/2015
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2453

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

CPC					
Symbol				Type	Version
G06F		3	/ 126	F	2013-01-01
G06F		3	/ 1204	I	2013-01-01
G06F		3	/ 1247	I	2013-01-01
G06F		3	/ 1288	I	2013-01-01
G06F		3	/ 1292	I	2013-01-01
G06Q		20	/ 102	I	2013-01-01
G06Q		40	/ 00	I	2013-01-01
H04L		12	/ 2805	I	2013-01-01
H04L		12	/ 2809	A	2013-01-01
H04L		12	/ 2812	I	2013-01-01
H04L		12	/ 2834	A	2013-01-01
H04L		12	/ 2838	A	2013-01-01
H04L		2012	/ 2849	A	2013-01-01
H04L		2012	/ 285	A	2013-01-01
H04L		67	/ 16	A	2013-01-01
H04L		67	/ 2823	I	2013-01-01
H04L		67	/ 303	I	2013-01-01
H04L		67	/ 2828	I	2013-01-01
H04L		67	/ 04	A	2013-01-01
H04L		67	/ 28	I	2013-01-01

CPC Combination Sets						
Symbol				Type	Set	Ranking	Version
			/				
			/				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	9/22/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20150922

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
709	217	G 0 6 F 15 / 16 (2006.0)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	9/22/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20150922

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		28		55		82		109	6	136	33	163	60	190
	2		29		56		83		110	7	137	34	164	61	191
	3		30		57		84		111	8	138	35	165	62	192
	4		31		58		85		112	9	139	36	166	63	193
	5		32		59		86		113	10	140	37	167	64	194
	6		33		60		87		114	11	141	38	168	65	195
	7		34		61		88		115	12	142	39	169	66	196
	8		35		62		89		116	13	143	40	170	67	197
	9		36		63		90		117	14	144	41	171	68	198
	10		37		64		91		118	15	145	42	172	69	199
	11		38		65		92		119	16	146	43	173		
	12		39		66		93		120	17	147	44	174		
	13		40		67		94		121	18	148	45	175		
	14		41		68		95		122	19	149	46	176		
	15		42		69		96		123	20	150	47	177		
	16		43		70		97		124	21	151	48	178		
	17		44		71		98		125	22	152	49	179		
	18		45		72		99		126	23	153	50	180		
	19		46		73		100		127	24	154	51	181		
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	23		50		77		104	1	131	28	158	55	185		
	24		51		78		105	2	132	29	159	56	186		
	25		52		79		106	3	133	30	160	57	187		
	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	9/22/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20150922

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

CPC- SEARCHED		
Symbol	Date	Examiner
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and (pointer or reference)	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	9/22/2015	EBH
(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	9/22/2015	EBH

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

SEARCH NOTES		
Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN

SEARCH NOTES

Search Notes	Date	Examiner
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB
Update Search	2/6/2015	EBH
Update Search	5/28/2015	EBH
Update Search	9/22/2015	EBH

INTERFERENCE SEARCH

US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH
	See Interference Search History	5/29/2015	EBH
	See Interference Search History	9/22/2015	EBH

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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L2	4	((pointer or reference) near (content near object) same (digital near2 content)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/09/22 14:40
L3	90	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/09/22 14:46
L4	0	((pointer or reference) near (content near object) same (device near dependent)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/09/22 14:59
L5	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/09/22 15:06

9/22/2015 3:09:00 PM
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PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5796394		1998-08-18	Wicks et al.	
	2	6360252		2002-03-19	Rudy et al.	
	3	6421716		2002-07-16	Eldridge et al.	
	4	7477890		2009-01-13	Narayanaswami	
	5	9069510		2015-06-30	Chang et al.	
	6	9092177		2015-07-28	Chang et al.	
	7	9110622		2015-08-18	Chang et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	09/22/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

EFS Web 2.1.17

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-09-03
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	7	("5796394" | "6360252" | "6421716" | "7477890" | "9069510" | "9092177" | "9110622").PN.	US-PGPUB; USPAT	WITH	ON	2015/09/22 09:32
L2	38	printer request$5 ((mobile near2 device) or (phone) or (portable near2 (device or computer))) (authenticat$7 or password or credential)	US-PGPUB; USPAT; USOCR	WITH	ON	2015/09/22 10:26
L3	26	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/09/22 10:35
L4	5	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((compress$5 or compact$4 or shrink$4 or condens$6) near2 (data or object or content or media or file or information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/09/22 10:39
L5	199	(mobile or phone or pda) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((compress$5 or compact$4 or shrink$4 or condens$6) near2 (data or object or content or media or file or information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/09/22 10:40
L6	218	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription))	US-PGPUB; USPAT	WITH	ON	2015/09/22 11:04
L7	213	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and (pointer or reference)	US-PGPUB; USPAT	WITH	ON	2015/09/22 11:09
L8	126	(H04L2209/60 H04N7/26 H04L9/00).cpc. and ((accept$4 or receive$4 or obtain$4) near2(payment or subscription)) and ((pointer or reference) near3 (content or media or data or information))	US-PGPUB; USPAT	WITH	ON	2015/09/22 11:10
L9	22545	(touch near2 (screen or pad or device or unit or equipment or module)) and (payment or subscription) and (job or task or workflow) and (authenticat$4 or authoriz$6 or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/09/22 11:24
L10	13174	(touch near2 (screen or pad or device or unit or equipment or module)) and (payment or subscription) and (job or task or workflow) and ((authenticat$4 or	US-PGPUB; USPAT; EPO; JPO; DERWENT;	WITH	ON	2015/09/22 11:38

		authoriz$6 or password) near2 (user or client))	IBM_TDB			
L11	5109	(touch near2 (screen or pad or device or unit or equipment or module)) and (payment or subscription) and ((pointer or reference) near2 (data or content or media or object)) and ((authenticat$4 or authoriz$6 or password) near2 (user or client))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/09/22 11:39

9/ 22/ 2015 12:00:13 PM
C:\ Users\ ebenoit\ Documents\ EAST\ Workspaces\ 09992413.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	09/22/2015
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	2	÷	.	.	.	.	.	.	.	.
	3	÷	.	.	.	.	.	.	.	.
	4	÷	.	.	.	.	.	.	.	.
	5	÷	.	.	.	.	.	.	.	.
	6	÷	.	.	.	.	.	.	.	.
	7	÷	.	.	.	.	.	.	.	.
	8	÷	.	.	.	.	.	.	.	.
	9	÷	.	.	.	.	.	.	.	.
	10	÷	.	.	.	.	.	.	.	.
	11	÷	✓	.	.	.	.	.	.	.
	12	÷	✓	.	.	.	.	.	.	.
	13	÷	✓	.	.	.	.	.	.	.
	14	÷	✓	.	.	.	.	.	.	.
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	21	÷	✓	.	.	.	.	.	.	.
	22	÷	✓	.	.	.	.	.	.	.
	23	÷	.	.	.	.	.	.	.	.
	24	÷	.	.	.	.	.	.	.	.
	25	÷	.	.	.	.	.	.	.	.
	26	÷	.	.	.	.	.	.	.	.
	27	÷	.	.	.	.	.	.	.	.
	28	÷	.	.	.	.	.	.	.	.
	29	÷	.	.	.	.	.	.	.	.
	30	÷	.	.	.	.	.	.	.	.
	31	÷	.	.	.	.	.	.	.	.
	32	÷	✓	.	.	.	.	.	.	.
	33	÷	✓	.	.	.	.	.	.	.
	34	÷	✓	.	.	.	.	.	.	.
	35	÷	✓	.	.	.	.	.	.	.
	36	÷	✓	.	.	.	.	.	.	.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	09/22/2015
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	40	÷	✓	.	.	.	.	.	.	.
	41	÷	✓	.	.	.	.	.	.	.
	42	÷	✓	.	.	.	.	.	.	.
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	57	÷	✓	.	.	.	.	.	.	.
	58	÷	✓	.	.	.	.	.	.	.
	59	÷	.	.	.	.	.	.	.	.
	60	÷	.	.	.	.	.	.	.	.
	61	÷	.	.	.	.	.	.	.	.
	62	÷	.	.	.	.	.	.	.	.
	63	÷	.	.	.	.	.	.	.	.
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	65	÷	.	.	.	.	.	.	.	.
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	09/22/2015
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	80			-	-	-	-	-	-	-
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	96			-	-	-	-	-	-	-
	97			-	-	-	-	-	-	-
	98			-	-	-	-	-	-	-
	99			-	-	-	-	-	-	-
	100			-	-	-	-	-	-	-
	101			-	-	-	-	-	-	-
	102			-	-	-	-	-	-	-
	103			-	-	-	-	-	-	-
	104			-	-	-	-	-	-	-
	105			-	-	-	-	-	-	-
	106			-	-	-	-	-	-	-
	107			-	-	-	-	-	-	-
	108			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	09/22/2015
	109			-	-	-	-	-	-	-
	110			-	-	-	-	-	-	-
	111			-	-	-	-	-	-	-
	112			-	-	-	-	-	-	-
	113			-	-	-	-	-	-	-
	114			-	-	-	-	-	-	-
	115			-	-	-	-	-	-	-
	116			-	-	-	-	-	-	-
	117			-	-	-	-	-	-	-
	118			-	-	-	-	-	-	-
	119			-	-	-	-	-	-	-
	120			-	-	-	-	-	-	-
	121			-	-	-	-	-	-	-
	122			-	-	-	-	-	-	-
	123			-	-	-	-	-	-	-
	124			-	-	-	-	-	-	-
	125			-	-	-	-	-	-	-
	126			-	-	-	-	-	-	-
	127			-	-	-	-	-	-	-
	128			-	-	-	-	-	-	-
	129			-	-	-	-	-	-	-
	130			-	-	-	-	-	-	-
1	131			✓	✓	✓	✓	✓	=	=
2	132			✓	✓	✓	✓	✓	=	=
3	133			✓	✓	✓	✓	✓	=	=
4	134			✓	✓	✓	✓	✓	=	=
5	135			✓	✓	✓	✓	✓	=	=
6	136			✓	✓	✓	✓	✓	=	=
7	137			✓	✓	✓	✓	✓	=	=
8	138			✓	✓	✓	✓	✓	=	=
9	139			✓	✓	✓	✓	✓	=	=
10	140			✓	✓	✓	✓	✓	=	=
11	141			✓	✓	✓	✓	✓	=	=
12	142			✓	✓	✓	✓	✓	=	=
13	143			✓	✓	✓	✓	✓	=	=
14	144			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	09/22/2015
15	145			✓	✓	✓	✓	✓	=	=
16	146			✓	✓	✓	✓	✓	=	=
17	147			✓	✓	✓	✓	✓	=	=
18	148			✓	✓	✓	✓	✓	=	=
19	149			✓	✓	✓	✓	✓	=	=
20	150			✓	✓	✓	✓	✓	=	=
21	151			✓	✓	✓	✓	✓	=	=
22	152			✓	✓	✓	✓	✓	=	=
23	153			✓	✓	✓	✓	✓	=	=
24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
27	157			✓	✓	✓	✓	✓	=	=
28	158			✓	✓	✓	✓	✓	=	=
29	159			✓	✓	✓	✓	✓	=	=
30	160			✓	✓	✓	✓	✓	=	=
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32	162			✓	✓	✓	✓	✓	=	=
33	163			✓	✓	✓	✓	✓	=	=
34	164			✓	✓	✓	✓	✓	=	=
35	165			✓	✓	✓	✓	✓	=	=
36	166			✓	✓	✓	✓	✓	=	=
37	167			✓	✓	✓	✓	✓	=	=
38	168			✓	✓	✓	✓	✓	=	=
39	169			✓	✓	✓	✓	✓	=	=
40	170			✓	✓	✓	✓	✓	=	=
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42	172			✓	✓	✓	✓	✓	=	=
43	173			✓	✓	✓	✓	✓	=	=
44	174			✓	✓	✓	✓	✓	=	=
45	175			✓	✓	✓	✓	✓	=	=
46	176			✓	✓	✓	✓	✓	=	=
47	177			✓	✓	✓	✓	✓	=	=
48	178			✓	✓	✓	✓	✓	=	=
49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	09/22/2015
51	181			✓	✓	✓	✓	✓	=	=
52	182			✓	✓	✓	✓	✓	=	=
53	183			✓	✓	✓	✓	✓	=	=
54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
61	191			✓	✓	✓	✓	✓	=	=
62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
64	194			✓	✓	✓	✓	✓	=	=
65	195			✓	✓	✓	✓	✓	=	=
66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

PTO/SB/08a (01-10)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5796394		1998-08-18	Wicks et al.	
	2	6360252		2002-03-19	Rudy et al.	
	3	6421716		2002-07-16	Eldridge et al.	
	4	7477890		2009-01-13	Narayanaswami	
	5	9069510		2015-06-30	Chang et al.	
	6	9092177		2015-07-28	Chang et al.	
	7	9110622		2015-08-18	Chang et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

EFS Web 2.1.17

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-09-03
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	DIGITAL CONTENT SERVICES THAT TRANSMIT OR STREAM PROTECTED DIGITAL CONTENT ON DEMAND OVER THE INTERNET TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISIO CONTROLLER BOXES; AND INFORMATION APPARATUS THAT INCLUDED AN APPLICATION FOR ACCESSING THE DIGITAL CONTENT SERVICE
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2nd and Subsequent Request	2820	1	850	850
		Total in USD ($)		**850**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	23399853
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	DIGITAL CONTENT SERVICES THAT TRANSMIT OR STREAM PROTECTED DIGITAL CONTENT ON DEMAND OVER THE INTERNET TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISIO CONTROLLER BOXES; AND INFORMATION APPARATUS THAT INCLUDED AN APPLICATION FOR ACCESSING THE DIGITAL CONTENT SERVICE
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	03-SEP-2015
Filing Date:	18-NOV-2001
Time Stamp:	16:30:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$850

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

RAM confirmation Number	3471
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	20150903_RCE_FXT312.pdf	1349862 5101a1781139[illegible]	no	3
Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20150903_Amendment_Accompanying_RCE_FXT312.pdf	159517 [illegible]	no	29
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20150903_IDS_FXT312.pdf	612472 [illegible]	no	4
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30995 [illegible]	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2152846		

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2453
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit Henderson		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, to any international application that does not comply with the requirements of 35 U.S.C. 371, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV.

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 111540

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-09-03
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: September 3, 2015

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For :		Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That Includes Or Installs An Application For Accessing The Digital Content Services Or Stores (as currently amended)
Examiner	:	Esther Benoit Henderson
Art Unit	:	2453
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 4
Amendments to the Drawings	None
Remarks	Begin on page 26

Amendments to the Specification

Please make the amendments below to the specification. Material to be deleted is in ~~strikeout~~.

Please amend the title as follows:

~~Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Laptops, Smart Televisions, Or Controller Boxes Connectable To Televisions~~

Digital Content Services Or Stores Over The Internet That Transmit Or Stream Protected Or Encrypted Digital Content To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That Includes Or Installs An Application For Accessing The Digital Content Services Or Stores

Additionally, please replace the current abstract with the abstract provided on the next page.

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content to information apparatus or output devices are herein disclosed and enabled. The protected digital content are encrypted and device dependent or specific for rendering at a limited number of devices including smart phones, information pads, audio players, media controllers, televisions, etc. To illustrate, an information apparatus may include an application for accessing selected digital content from a subscribed content service or store over the Internet. To access digital content, a client application may send, to the content service or store, authentication information, payment or subscription information, and/or a reference to selected digital content. The service then generates encrypted device dependent output data associated with a device or identification previously registered with the service for transmitting or streaming, to one or more information apparatus or output devices (e.g., televisions or television controllers), the digital content for rendering.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus for rendering at ~~an output~~ **a** device, the ~~output~~ device being associated with the information apparatus and including at least one of a display device or an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus the digital content, the one or more servers being distinct and separate from the information apparatus and the ~~output~~ device, and

one or more server applications at the one or more servers for generating the device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

receiving, at the one or more servers, an object from the information apparatus over the network that includes the Internet, the object including information corresponding to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination;

providing, to the information apparatus by the one or more servers, at least part

of one or more pointers or references to one or more digital content available at a content server for selection by a user at the information apparatus;

receiving, at the one or more servers, ~~a content object from the information apparatus over the network that includes the Internet, the content object including information associated with~~ a pointer or reference to a selected digital content from among the at least part of one or more pointers or references provided to the information apparatus by the one or more servers;

~~receiving, at the one or more servers, an output device object from the information apparatus over the network that includes the Internet, the output device object including information corresponding to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination;~~

retrieving, by the one or more server applications, **at least part of** the selected digital content from the content server employing, at least in part, the pointer or reference to the selected digital content ~~included in the content object~~ received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of at least part of the device dependent output data that is device specific and is acceptable for rendering at the ~~output~~ device, the generated device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information included in the ~~output device~~ object and received by the one or more servers from the information apparatus over the network that includes the Internet; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering at least part of the selected digital content at a display device or an audio output device associated with the

information apparatus.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Currently amended) The method of claim 131 in which the information apparatus and the ~~output~~ device is part of an output system that includes a television.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the device dependent output data.

135. (Currently amended) The method of claim 131 in which the ~~output~~ device which is associated with the information apparatus is wired connected to the information apparatus.

136. (Previously presented) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

decoding, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of a palmtop

computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information is provided automatically by the information apparatus.

139. (Previously presented) The method of claim 131 in which the payment or subscription information is provided through the information apparatus as entered by a user in response to a prompt to enter payment or subscription information.

140. (Previously presented) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Currently amended) The method of claim 140 in which the ~~output~~ device includes a display screen associated with the information apparatus.

142. (Currently amended) The method of claim 131 in which the ~~output~~ device, which is associated with the information apparatus, includes at least one of a television, an audio output device, or a music output device, individually or in any combination.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Currently amended) The method of claim 131 in which the ~~output~~ device is

at least one of the following, individually or in any combination:

(1) an audio output device and wherein the device dependent output data includes audio data;

(2) a display device or a projection device and wherein the device dependent output data includes video data; or

(3) a television and wherein the device dependent output data includes audio data and video data.

145. (Previously presented) The method of claim 131 further comprising a client application that is installable by the user at the information apparatus, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content.

146. (Currently amended) The method of claim 131 in which the ~~output~~ device or the information apparatus decodes and decompresses at least part of the device dependent output data for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Previously presented) An information apparatus for obtaining digital content from a digital content service provided by one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

installing at least part of the client application for expanding functionalities of the information apparatus;

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to the digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

delivering, from the information apparatus, at least part of an object to the one or more servers over a network, the object including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the information apparatus and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, information associated with a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least **a pointer or reference to the selected digital content;** ~~part of a content object and at least part of an output device object to the one or more servers over a network, the content object being associated with the selected digital content and including a pointer or reference to the selected~~

~~digital content, and the output device object including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination;~~

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers related, at least in part, to the information included in the ~~output device~~ object ~~and in the content object~~ delivered from the information apparatus, and the device dependent output data received from the one or more servers further including an encryption scheme for ensuring security of at least part of the device dependent output data; and

decoding, at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering of at least part of the selected digital content.

149. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for rendering at least part of the device dependent output data.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Currently amended) The apparatus of claim 148 further comprising transmitting at least part of the device dependent output data to an output device **or device** for rendering, the output device **or device** including one or more of a display device, a projection device, a television device, an audio output device, and an output controller wire connected to a television, individually or in any combination.

152. (Currently amended) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device **or device** as one of one or more output devices **or devices** that are discovered by the information apparatus as

being available for rendering at least part of the selected digital content.

153. (Previously presented) The apparatus of claim 148 in which the information apparatus further includes one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units included at the information apparatus.

154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, a selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 148 in which the information apparatus is at least one of a desktop computer, a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Currently amended) A method for accessing digital content, by an information apparatus over a network that includes the Internet, the information apparatus including an operating system and one or more client applications facilitated

by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and [[the]] one or more servers over a network that includes the Internet**, the one or more servers being distinct and separate from the information apparatus;**

receiving, at the information apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the information apparatus;

delivering, from the information apparatus **to the one or more servers**, at least **a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers;**

delivering, from the information apparatus, one or more objects to the one or more servers, the one or more objects including information corresponding to at least one of device identification information, model information, brand information, registration information, and IP address information, individually or in any combination;

~~partially a content object and one or more output device objects to one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus, the content object including information related to a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers, and the one or more output device objects including information corresponding to at least one of device identification information, model information, brand information, registration information, and IP address information, individually or in any combination;~~

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user,

enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content and having a relationship, at least in part, to the **one or more objects** ~~content object~~ delivered from the information apparatus to the one or more servers over the network that includes the Internet, ~~the device dependent output data corresponding to the digital content further having a relationship, at least in part, to the one or more output device objects delivered from the information apparatus to the one or more servers over the network,~~ and the device dependent output data corresponding to the digital content further including an encryption scheme for ensuring security of the digital content for rendering at least part of the device dependent output data.

158. (Previously presented) The method of claim 157 further comprising:

establishing a connection between the information apparatus and a television or an output controller connected to a television; and

transmitting, by the information apparatus, at least part of the digital content over the connection for rendering of the at least part of the digital content at the television.

159. (Previously presented) The method of claim 157 in which the information apparatus is at least one of a palmtop computer, a desktop computer, a networked computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the information apparatus to the one or more servers over the network as payment or subscription for digital content service.

161. (Previously presented) The method of claim 157 in which the information apparatus includes a display screen or speaker for rendering or outputting at least part of the digital content received from the one or more servers.

162. (Currently amended) The method of claim 157 in which the **one or more objects** ~~content object~~ includes at least part of the digital content for storing at the one or more servers.

163. (Previously presented) The method of claim 157 in which the information apparatus is part of an output system that includes a television, at least part of the output system operable for accessing the digital content service over the Internet.

164. (Previously presented) The method of claim 157 in which the information apparatus is wired connected to a television.

165. (Previously presented) The method of claim 157 in which the information apparatus includes a network communication unit and the method further comprising the information apparatus establishing a wired or wireless connection, via the network communication unit, with at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the digital content over the wired or wireless connection for rendering.

166. (Previously presented) The method of claim 157 further comprising decoding or decompressing at least part of the device dependent output data corresponding to at least part of the digital content at the information apparatus for rendering.

167. (Currently amended) An output system for accessing a digital content service over a network and for receiving device dependent output data from one or more servers over the network, the device dependent output data corresponding to at least part of digital content that is device specific and is acceptable for rendering at the output system, the output system comprising:

an information apparatus;

~~an output~~ **a** device that is at least one of a display device, or a projection device, or an audio output device, for rendering at least part of the device dependent output data;

a display screen or projection medium;

an operating system;

a client application having a graphical user interface over the display screen or projection medium for interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system is operable for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display screen or projection medium, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, from a user of the output system via the graphical user interface, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection;

delivering, from the output system, at least part of a content object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content;

delivering, by the output system, at least part of an ~~output device~~ object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the ~~output device~~ object including information related to at least part of the output system;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, at the output system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information included in the ~~output device~~ object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the output system for rendering;

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the output system; and

rendering by the at least one of a display device, or a projection device, or an audio output device included in the output system, at least part of the selected digital content that includes, at least in part, video or audio content.

168. (Currently amended) The system of claim 167 in which the ~~output device~~ object includes a device identification information or an address, and the output system is further operable for obtaining an ~~output device~~ object, the obtaining of the ~~output device~~ object includes obtaining information from at least one of the following: (1) user input, (2) a communication with ~~an output~~ **a** device, (3) obtaining information from one or more ~~output~~ devices, (4) retrieving a parameter stored in the output system, or (5) a default parameter or preference associated with the output system, individually or in any combination.

169. (Previously presented) The system of claim 167 wherein the output system includes at least one of a television system, an output controller connected to a television, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance or a digital camera, individually or in any combination.

170. (Currently amended) The system of claim 167 in which the ~~output~~ device and the information apparatus are wire connected.

171. (Currently amended) The system of claim 167 wherein the output system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at ~~an output~~ a device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system over a network that includes the Internet, at least part of device dependent output data corresponding to digital content that includes audio or video content is acceptable for rendering at the output system, the output system including an information apparatus, a client application, and at least one of a display device or an audio output device, the digital content service system comprising:

one or more servers that are distinct and separate from the output system, the one or more servers being operable to receive from the output system a content object and at least part of an ~~output device~~ object, the content object including at least a pointer or reference to the digital content, the pointer or the reference being related to a selection by a user from among one or more pointers or references to digital content provided, at least in part, to the output system by the one or more servers, the ~~output device~~ object having information corresponding to the output system, the one or more servers being further operable to receive, from the output system, security or authentication information associated with the user for authentication of the user, and the one or more servers being further operable to receive, from the output system, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the output system;

one or more server applications on the one or more servers for generating the device dependent output data after having received a selected digital content and at least payment or subscription information, the device dependent output data having a relationship, at least in part, to the information related to the output system, and the

generating of the device dependent output data includes (1) applying a compression operation on at least part of the digital content, and (2) applying an encryption scheme with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; and

wherein, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content that includes audio or video content.

173. (Previously presented) The system of claim 172 wherein the client application is further operable for decoding at least part of the device dependent output data received from the one or more servers for rendering at the output system at least part of the digital content.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device and the device dependent output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system is a television system, and the information apparatus and the at least one of a display device and an audio output device is part of a television system.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to a selected digital content, and the one or more server applications further retrieve the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device, containing

one or more server applications executable by a processor at a server system for transmitting device dependent output data acceptable for rendering at an output system, the output system including one or more of a display device, a projection device, an audio output device, a television, an information apparatus, or a display screen associated with an information apparatus, individually or combination, the server system including one or more servers that are accessible by an information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the output system, the one or more server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the output system that includes an information apparatus, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the output system from among one or more pointers or references provided, at least in part, to the output system by the server system;

receive, by the server system from the output system that includes an information apparatus, one or more ~~output device~~ objects, the one or more ~~output device~~ objects having information related to the output system; and

receive, by the server system and from the output system that includes an information apparatus, security or authentication information associated with a user operating the output system for authentication of the user;

retrieve, by the server system, at least part of the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the output system that includes an information apparatus;

generate, by the server system, the device dependent output data associated with at least part of the digital content for rendering at the output system, the device dependent output data associated with at least part of the digital content having a relationship, at least in part, to the information included in the one or more ~~output device~~ objects received by the server system;

apply, by the server system, an encoding operation on at least part of the digital

content for transmitting the device dependent output data associated with the digital content;

apply, by the server system, an encryption scheme on at least part of the digital content for ensuring security of at least part of the digital content that is device dependent for rendering; and

transmit, by the server system, at least part of the device dependent output data associated with at least part of the digital content to the output system over the network that includes the Internet after having received at least the security or authentication information, the one or more content objects, and the one or more ~~output device~~ objects from the output system.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Previously presented) The memory or storage device of claim 177 in which the output system that includes an information apparatus further renders at least part of the device dependent output data at the display screen of the information apparatus.

180. (Currently amended) In a computer memory or storage device, containing client software executable by a processor at an information apparatus for obtaining device dependent output data for rendering at ~~an output~~ **a** device associated with the information apparatus, the ~~output~~ device including at least one of a display device or an audio output device, the information apparatus including a graphical user interface over a display screen for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content that includes video content or audio content for rendering, the computer memory or storage device containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network that includes the Internet; and

software executable at the information apparatus for providing over the graphical user interface at the display screen, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software executable at the information apparatus for receiving a selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content; and

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an ~~output device~~ object to the one or more servers that is distinct and separate from the information apparatus and the ~~output~~ device, the content object being associated with the selected digital content, and the ~~output device~~ object including information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination, the content object and the ~~output device~~ object being required at the one or more servers for generating at least part of device dependent output data corresponding at least partly to the selected digital content and for rendering at the ~~output~~ device; and

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network that includes the Internet, security or authentication information associated with the user operating the information apparatus for authentication of the user; and

software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the ~~output~~ device, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the information related to the ~~output~~ device included in the ~~output device~~ object delivered from the information apparatus to the one or more servers over the network that includes the Internet, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the

device dependent output data that includes an encryption scheme received from the one or more servers; and

software executable at the information apparatus for [[for]] rendering at least part of the decoded device dependent output data.

181. (Previously presented) The computer memory or storage device of claim 180 wherein the client application is facilitated by the operating system for installing the client application, by the user at the information apparatus, for expanding the functionalities of the information apparatus.

182. (Currently amended) The computer memory or storage device of claim 180 in which the ~~output~~ device is wire connected to the information apparatus.

183. (Previously presented) The computer memory or storage device of claim 180 in which the information apparatus is at least one of a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

184. (Currently amended) The computer memory or storage device of claim 180 in which the ~~output~~ device is a display screen or a television and the device dependent output data includes video data, and wherein a connection between the information apparatus and the ~~output~~ device includes a wired connection.

185. (Previously presented) The computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, audio data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The computer memory or storage device of claim 180 in which the information apparatus and the ~~output~~ device are part of an output system,

and the ~~output~~ device is associated with a television, and the information apparatus delivers over wireless communication at least part of the digital content that includes video content or audio content to the television for rendering at the television.

187. (Previously presented) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188. (Previously presented) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content received from the digital content service to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus.

189. (Previously presented) The memory or storage device of claim 177 in which the output system includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or the projection device.

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the output system at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Currently amended) The memory or storage device of claim 177 in which the one or more ~~output device~~ objects include identification, a pointer, or a reference, the identification including one or more of ~~an output~~ **a** device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Previously presented) The system of claim 172 in which the one or more content objects further includes at least part of the digital content for storing at the one or more content servers.

193. (Previously presented) The system of claim 172 in which the information apparatus and the at least one of a display device and an audio output device included in the output system are wire connected.

194. (Previously presented) The system of claim 167 further enables operations for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Currently amended) The system of claim 167 in which the information apparatus is connected to the ~~output~~ device over a wireless network connection or a wired connection.

196. (Previously presented) The system of claim 167 in which the output system is a television system.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the output system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Previously presented) The system of claim 167 in which the information apparatus is at least one of a laptop computer, a desktop computer, a networked computer, a smart phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination, and the information apparatus is operable for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network.

199. (Previously presented) The method of claim 157 in which the information apparatus includes a wireless communication unit and the connection between the information apparatus and the one or more servers over a network that includes the Internet includes a wireless connection via the wireless communication unit of the information apparatus.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated June 4, 2015

A Notice of Allowance was mailed on June 4, 2015 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance. On August 4, 2015, Applicant received a "Corrected Filing Receipt" which includes the correction to the current title of the application. However, the title shown in the corrected filing receipt includes two typographical errors. Specifically, "TELEVISIO" instead of "TELEVISION," and "INCLUDED" instead of "INCLUDES." Accordingly, Applicant filed this Request for Continued Examination (RCE) so that a correct title can be entered. Because Applicant is filing an RCE, Applicant has taken the opportunity to further review the application to improve clarity and consistency of the application as further discussed below.

Applicant respectfully requests correct entry of the amendments to the title, abstract, and claims as shown above.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined by the same Examiner in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Title of Application

The title of this application has been amended to improve clarity and consistency with the claims. Applicant respectfully requests correct entry of the latest title as shown above.

4. Abstract of Application

The abstract of the application has been amended to improve clarity and consistency. Applicant respectfully requests correct entry of the latest abstract as shown above.

5. Claims of Application

Because Applicant is filing a Request for Continued Examination, Applicant has taken the opportunity to further review the claims in the application. In reviewing the claims, Applicant found minor issues related to typographical errors, clarity, antecedence, and consistency. Therefore, Applicant has amended the claims to improve grammar, clarity, and consistency as well as to remove minor redundancies or repetitive elements in some of the claims.

For example, in claim 131, Applicant reordered some of the steps to improve clarity and readability. Additionally, Applicant has amended "output device" to recite "device." Support can be found in the specification as originally filed, such as in paragraphs 0107, 0123, 0133, and 0147, as shown below.

Furthermore, Applicant has amended "output device object" to recite "object" or "objects." Support can be found in the specification as original filed, such as in paragraph 0137 as shown below. In addition, paragraph 0176 further points out that "the illustrated embodiment can be modified in arrangement and detail without departing from such principles ... it should be recognized that the detailed embodiments are illustrative only and should not be taken as limiting the scope of our invention."

> Fig. 10B shows another exemplary conventional output system or an output device 1000B. An output system or output device may include one or more of **a printing system or device, a display system or device, a projection system or device, or a sound system or device** (paragraph 0067) (emphasis added).
>
> As another example, a user may pre-select or set the **output device or devices 106** that are used frequently as preferred defaults (paragraph 0107) (emphasis added).

In step 512, with one or more output devices 106 selected or determined, the communication link between information apparatus 100 and **the selected output device or devices 106** may be "locked" (paragraph 0123) (emphasis added).

[T]he client application 102 may communicate with the selected **output device or devices 106** to upload output device objects or related information stored in memory or storage components of **the output device or devices 106** (paragraph 0133) (emphasis added).

To successfully obtain the **output device object or objects** from the selected **output device or devices 106**, several additional optional processes may be involved. As an example, authentication may be necessary ... Such identification and or authentication information may be manually provided by the user or automatically detected by the selected **output device or devices 106** (paragraph 0134) (emphasis added).

After receiving the composite message from client application 102, the server application 112 may process the document object and convert it into output data. The output data generated is preferred to be in a format or language acceptable or compatible to the **output device or devices 106** selected by the user (paragraph 0147) (emphasis added).

Thus, Applicant respectfully requests correct entry of the latest claims as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on September 3, 2015.

/Heidi Dutro/
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Respectfully submitted,

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PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 09/03/2015	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 7	Minus	***7	= 0	X $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/PARTHENIA D. MERRILL/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
09/992,413	11/18/2001	2453	1031	FXT312	65	7

CONFIRMATION NO. 5528

CORRECTED FILING RECEIPT

EDWARD B. ANDERSON
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PORTLAND, OR 97204

OC000000078877001

Date Mailed: 08/04/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

Applicant(s)

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

Power of Attorney: The patent practitioners associated with Customer Number 23581

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/252,682 11/20/2000

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 04/30/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 09/992,413**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **

Title

DIGITAL CONTENT SERVICES THAT TRANSMIT OR STREAM PROTECTED DIGITAL CONTENT ON DEMAND OVER THE INTERNET TO INFORMATION APPARATUS, SUCH AS INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR TELEVISIO CONTROLLER BOXES; AND INFORMATION APPARATUS THAT INCLUDED AN APPLICATION FOR ACCESSING THE DIGITAL CONTENT SERVICE

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/04/2015

EDWARD B. ANDERSON
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EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 06/04/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

TITLE OF INVENTION: SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, LAPTOPS, SMART TELEVISIONS, OR CONTROLLER BOXES CONNECTABLE TO TELEVISIONS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	09/04/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

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7590 06/04/2015

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(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, LAPTOPS, SMART TELEVISIONS, OR CONTROLLER BOXES CONNECTABLE TO TELEVISIONS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	09/04/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2453	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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7590 06/04/2015

EDWARD B. ANDERSON
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200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	

ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 06/04/2015

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2453	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *5/18/2015*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 5/18/2015, 5/20/2015, 5/27/2015
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2453

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9037088		2015-05-19	Chang et al.	
	2	9036181		2015-05-19	Chang et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button **Add**

EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	05/28/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-05-20
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	05/28/2015
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	32	÷	✓	.	.	.	.	.	.	.
	33	÷	✓	.	.	.	.	.	.	.
	34	÷	✓	.	.	.	.	.	.	.
	35	÷	✓	.	.	.	.	.	.	.
	36	÷	✓	.	.	.	.	.	.	.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	05/28/2015
	37	÷	✓	.	.	.	.	.	.	.
	38	÷	✓	.	.	.	.	.	.	.
	39	÷	✓	.	.	.	.	.	.	.
	40	÷	✓	.	.	.	.	.	.	.
	41	÷	✓	.	.	.	.	.	.	.
	42	÷	✓	.	.	.	.	.	.	.
	43	÷	✓	.	.	.	.	.	.	.
	44	÷	✓	.	.	.	.	.	.	.
	45	÷	✓	.	.	.	.	.	.	.
	46	÷	✓	.	.	.	.	.	.	.
	47	÷	✓	.	.	.	.	.	.	.
	48	÷	✓	.	.	.	.	.	.	.
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	50	÷	✓	.	.	.	.	.	.	.
	51	÷	✓	.	.	.	.	.	.	.
	52	÷	✓	.	.	.	.	.	.	.
	53	÷	✓	.	.	.	.	.	.	.
	54	÷	✓	.	.	.	.	.	.	.
	55	÷	✓	.	.	.	.	.	.	.
	56	÷	✓	.	.	.	.	.	.	.
	57	÷	✓	.	.	.	.	.	.	.
	58	÷	✓	.	.	.	.	.	.	.
	59	÷	.	.	.	.	.	.	.	.
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	61	÷	.	.	.	.	.	.	.	.
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	70			.	.	.	.	.	.	.
	71			.	.	.	.	.	.	.
	72			.	.	.	.	.	.	.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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	75			-	-	-	-	-	-	-
	76			-	-	-	-	-	-	-
	77			-	-	-	-	-	-	-
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	81			-	-	-	-	-	-	-
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	84			-	-	-	-	-	-	-
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	98			-	-	-	-	-	-	-
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	102			-	-	-	-	-	-	-
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	104			-	-	-	-	-	-	-
	105			-	-	-	-	-	-	-
	106			-	-	-	-	-	-	-
	107			-	-	-	-	-	-	-
	108			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	05/28/2015
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	114			-	-	-	-	-	-	-
	115			-	-	-	-	-	-	-
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	125			-	-	-	-	-	-	-
	126			-	-	-	-	-	-	-
	127			-	-	-	-	-	-	-
	128			-	-	-	-	-	-	-
	129			-	-	-	-	-	-	-
	130			-	-	-	-	-	-	-
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4	134			✓	✓	✓	✓	✓	=	=
5	135			✓	✓	✓	✓	✓	=	=
6	136			✓	✓	✓	✓	✓	=	=
7	137			✓	✓	✓	✓	✓	=	=
8	138			✓	✓	✓	✓	✓	=	=
9	139			✓	✓	✓	✓	✓	=	=
10	140			✓	✓	✓	✓	✓	=	=
11	141			✓	✓	✓	✓	✓	=	=
12	142			✓	✓	✓	✓	✓	=	=
13	143			✓	✓	✓	✓	✓	=	=
14	144			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

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CLAIM		DATE								
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17	147			✓	✓	✓	✓	✓	=	=
18	148			✓	✓	✓	✓	✓	=	=
19	149			✓	✓	✓	✓	✓	=	=
20	150			✓	✓	✓	✓	✓	=	=
21	151			✓	✓	✓	✓	✓	=	=
22	152			✓	✓	✓	✓	✓	=	=
23	153			✓	✓	✓	✓	✓	=	=
24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
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44	174			✓	✓	✓	✓	✓	=	=
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46	176			✓	✓	✓	✓	✓	=	=
47	177			✓	✓	✓	✓	✓	=	=
48	178			✓	✓	✓	✓	✓	=	=
49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

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CLAIM		DATE								
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52	182			✓	✓	✓	✓	✓	=	=
53	183			✓	✓	✓	✓	✓	=	=
54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
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58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
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62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
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66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

CPC					
Symbol				Type	Version
G06F		3	/ 126	F	2013-01-01
G06F		3	/ 1204	I	2013-01-01
G06F		3	/ 1247	I	2013-01-01
G06F		3	/ 1288	I	2013-01-01
G06F		3	/ 1292	I	2013-01-01
G06Q		20	/ 102	I	2013-01-01
G06Q		40	/ 00	I	2013-01-01
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H04L		12	/ 2809	A	2013-01-01
H04L		12	/ 2812	I	2013-01-01
H04L		12	/ 2834	A	2013-01-01
H04L		12	/ 2838	A	2013-01-01
H04L		2012	/ 2849	A	2013-01-01
H04L		2012	/ 285	A	2013-01-01
H04L		67	/ 16	A	2013-01-01
H04L		67	/ 2823	I	2013-01-01
H04L		67	/ 303	I	2013-01-01
H04L		67	/ 2828	I	2013-01-01
H04L		67	/ 04	A	2013-01-01
H04L		67	/ 28	I	2013-01-01

CPC Combination Sets						
Symbol				Type	Set	Ranking	Version
			/				
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(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	5/28/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20150528

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
709	217	G 0 6 F 15 / 16 (2006.01.01)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	5/28/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20150528

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

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	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	5/28/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20150528

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

SEARCH NOTES		
Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB

SEARCH NOTES		
Search Notes	Date	Examiner
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB
Update Search	2/6/2015	EBH
Update Search	5/28/2015	EBH

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH
	See Interference Search History	5/29/2015	EBH

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
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S167	68	((pointer or reference) near (digital near content)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/05/29 08:34
S168	86	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/05/29 08:35
S169	4	((pointer or reference) near (content near object) same (digital near2 content)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/05/29 08:35
S170	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/05/29 08:36

5/29/2015 8:47:59 AM
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8964220		2015-02-24	Chang et al.	
	2	8972610		2015-03-03	Chang	
	3	8989064		2015-03-24	Chang et al.	
	4	9015329		2015-04-21	Chang et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

	1							☐

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	1	U.S. PATENT AND TRADEMARK OFFICE, Supplemental Notice of Allowability, January 21, 2015, 7 pages.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	05/28/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H/

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-05-18
Name/Print	Peter D. Sabido	Registration Number	50353

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S161	126	((select$4 or choos$4) near (pointer or reference)) near (user or client) (list or table)	US-PGPUB; USPAT	WITH	ON	2015/05/28 13:29
S162	29	((select$4 or choos$4) near (pointer or reference)) near (user or client) near2 (list or table)	US-PGPUB; USPAT	WITH	ON	2015/05/28 13:29
S163	25	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/05/28 13:31
S164	25	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/05/29 08:25
S165	35	printer request$5 ((mobile near2 device) or (phone) or (portable near2 (device or computer))) (authenticat$7 or password or credential)	US-PGPUB; USPAT; USOCR	WITH	ON	2015/05/29 08:32

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	9043482		2015-05-26	Chang	
	2	9042811		2015-05-26	Chang et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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Examiner Signature	/Esther B. Henderson/	Date Considered	05/28/2015

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Electronic Acknowledgement Receipt

EFS ID:	22456911
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, LAPTOPS, SMART TELEVISIONS, OR CONTROLLER BOXES CONNECTABLE TO TELEVISIONS
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	27-MAY-2015
Filing Date:	18-NOV-2001
Time Stamp:	13:09:49
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20150527_IDS_FXT312.pdf	612318 [illegible]	no	4

Warnings:	
Information:	
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National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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	2	9036181		2015-05-19	Chang et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-05-20
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	22407757
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, LAPTOPS, SMART TELEVISIONS, OR CONTROLLER BOXES CONNECTABLE TO TELEVISIONS
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	20-MAY-2015
Filing Date:	18-NOV-2001
Time Stamp:	19:22:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20150520_IDS_FXT312.pdf	612245 a901225958129f7f8b7331f0f4c497219f0d60d20	no	4

Warnings:	
Information:	
Total Files Size (in bytes):	612245

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-09)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2453
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit Henderson		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

☐ Other _____

☒ Enclosed

☒ Amendment/Reply

☒ Information Disclosure Statement (IDS)

☐ Affidavit(s)/ Declaration(s)

☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 111540

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-05-18
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: May 18, 2015

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Services That Transmit Or Stream Protected Digital Content On Demand Over The Internet To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That Includes An Application For Accessing The Digital Content Service (as currently amended)
Examiner	:	Esther Benoit
Art Unit	:	2453
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 4
Amendments to the Drawings	None
Remarks	Begin on page 26

Amendments to the Specification

Please make the amendments below to the specification. Material to be deleted is in ~~strikeout~~.

Please amend the title as follows:

~~Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Laptops, Smart Televisions, Or Controller Boxes Connectable To Televisions~~

Digital Content Services That Transmit Or Stream Protected Digital Content On Demand Over The Internet To Information Apparatus, Such As Information Pads, Smart Phones, Smart Televisions, Or Television Controller Boxes; And Information Apparatus That Includes An Application For Accessing The Digital Content Service

Additionally, please replace the current abstract with the abstract provided on the next page.

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content on demand to information apparatus or output devices are herein disclosed and enabled. The protected digital content is device dependent or device specific for rendering at a smart phone, information pad, audio player, media controller, television, etc. To illustrate, an information apparatus may include a client application for accessing selected digital content from a subscribed content service or content store provided over the Internet. To access the selected digital content, the client application may send, to the content service or store, authentication information, payment or subscription information, and/or a reference to selected digital content. The service then generates encrypted device dependent output data associated with a device identification previously registered with the service for transmitting or streaming, to the information apparatus or to the output device (e.g., televisions or television controllers), the digital content for rendering.

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus for rendering at an output device, the output device being associated with the information apparatus and including at least one of a display device or an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus~~, device dependent output data corresponding to~~ the digital content, ~~the device dependent output data being device specific and being acceptable for rendering at the output device,~~ the one or more servers being distinct and separate from the information apparatus and the output device, and

one or more server applications at the one or more servers for generating **[[**the**]]** device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, at least part of one or more pointers or references to one or more digital content available at a content server for selection by a user at the information apparatus;

receiving, at the one or more servers, a content object from the information apparatus over the network **that includes the Internet**, the content object including

information associated with a pointer or reference to a selected digital content~~, the pointer or the reference to a selected digital content being associated with a selection by the user at the information apparatus~~ from among the at least part of one or more pointers or references provided to the information apparatus by the one or more servers;

receiving, at the one or more servers, an output device object from the information apparatus over the network **that includes the Internet**, the output device object **including information corresponding to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination**~~ having one or more attributes associated with the output device~~;

retrieving, by the one or more server applications, the selected digital content from the content server employing, at least in part, the pointer or reference to the selected digital content included in the content object received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of **at least part of** the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to **at least part of** the selected digital content and having a relationship, at least in part, to the **information**~~ one or more attributes associated with the output device~~ included in the output device object and received by the one or more servers from the information apparatus over the network **that includes the Internet**; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering at least part of the selected digital content at~~ the output device, the output device being associated with the~~

~~information apparatus and being at least one of~~ a display device or an audio output device **associated with the information apparatus**.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Previously presented) The method of claim 131 in which the information apparatus and the output device is part of an output system that includes a television.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the device dependent output data.

135. (Previously presented) The method of claim 131 in which the output device which is associated with the information apparatus is wired connected to the information apparatus.

136. (Currently amended) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

decoding ~~delivering~~, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers ~~to the output device~~ for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information

apparatus is a wireless information apparatus and includes at least one of a palmtop computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information is provided automatically by the information apparatus.

139. (Currently amended) The method of claim 131 in which the payment **or subscription** information is provided through the information apparatus as entered by a user in response to a prompt to enter payment **or subscription** information.

140. (Previously presented) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Previously presented) The method of claim 140 in which the output device includes a display screen associated with the information apparatus.

142. (Previously presented) The method of claim 131 in which the output device, which is associated with the information apparatus, includes at least one of a television, an audio output device, or a music output device, individually or in any combination.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the output device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the device dependent output data includes audio data;

(2) a display device or a projection device and wherein the device dependent output data includes video data; or

(3) a television and wherein the device dependent output data includes audio data and video data.

145. (Currently amended) The method of claim 131 **further comprising a client application that is installable by the user at the information apparatus, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content.** ~~in which the output device object includes information corresponding to device identification information, model information, brand information, registration information, IP address information, individually or in any combination.~~

146. (Previously presented) The method of claim 131 in which the output device or the information apparatus decodes and decompresses at least part of the device dependent output data for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining ~~device dependent output data corresponding to~~ digital content from **a digital content service provided by** one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

installing at least part of the client application for expanding functionalities of the information apparatus;

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to **[[a]]** **the** digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the ~~client application~~ **information apparatus** and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, information associated with a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least part of a content object and at least part of an output device object to the one or more servers over a network, the content object being associated with the selected digital content and including a pointer or reference to the selected digital content, and the output device object including

information related to at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination; ~~at least an attribute or identification related to an output device;~~

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers related, at least in part, to the information included in the output device object and in the content object delivered from the information apparatus, and the device dependent output data received from the one or more servers further including an encryption scheme for ensuring security of **at least part of** the device dependent output data ~~that is device specific for rendering~~; and

decoding, at the information apparatus, at least part of the device dependent output data received from the one or more servers for rendering **[[of]]** at least part of the **selected digital content** ~~device dependent output data~~.

149. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for rendering at least part of the device dependent output data.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Currently amended) The apparatus of claim 148 further comprising transmitting at least part of the device dependent output data to an output device for rendering, the output device including one or more of a display device, a projection device, a television device, an audio output device, and an output controller **wire** connected to a television, individually or in any combination.

152. (Previously presented) The apparatus of claim 148 wherein the information

apparatus is further operable for discovering an output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering at least part of the selected digital content.

153. (Previously presented) The apparatus of claim 148 in which the information apparatus further includes one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units included at the information apparatus.

154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, a selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 148 in which the information apparatus is at least one of a desktop computer, a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Previously presented) A method for accessing digital content, by an

information apparatus over a network that includes the Internet, the information apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and the one or more servers over a network that includes the Internet;

receiving, at the information apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the information apparatus;

delivering, from the information apparatus, at least partially a content object and one or more output device objects to one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus, the content object including information related to a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers, and the one or more output device objects including information corresponding to at least one of device identification information, model information, brand information, registration information, and IP address information, individually or in any combination;

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content and having a relationship, at least in part, to the content object delivered from the information apparatus to the one or more servers over the network that includes the Internet, the device dependent output data corresponding to the digital content further having a relationship, at least in part, to the one or more output device objects delivered from the information apparatus to the one or more servers over the network, and the device dependent output data

corresponding to the digital content further including an encryption scheme for ensuring security of the digital content for rendering at least part of the device dependent output data.

158. (Currently amended) The method of claim 157 further comprising:

establishing a connection between the information apparatus and a television or an output controller connected to a television; and

transmitting, by the information apparatus, at least part of the ~~device dependent output data corresponding to at least part of the~~ digital content over the connection for rendering of the at least part of the digital content at the television.

159. (Previously presented) The method of claim 157 in which the information apparatus is at least one of a palmtop computer, a desktop computer, a networked computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Currently amended) The method of claim 157 further comprising sending payment or subscription information from the information apparatus to the one or more servers over the network as payment **or subscription** for digital content service.

161. (Currently amended) The method of claim 157 in which the information apparatus includes a display screen **or speaker** for rendering **or outputting** at least part of the digital content **received from the one or more servers**.

162. (Previously presented) The method of claim 157 in which the content object includes at least part of the digital content for storing at the one or more servers.

163. (Currently amended) The method of claim 157 in which the information apparatus is part of an output system that includes a television, at least part of the output system operable for accessing **the** digital content service over the Internet.

164. (Previously presented) The method of claim 157 in which the information apparatus is wired connected to a television.

165. (Previously presented) The method of claim 157 in which the information apparatus includes a network communication unit and the method further comprising the information apparatus establishing a wired or wireless connection, via the network communication unit, with at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the digital content over the wired or wireless connection for rendering.

166. (Currently amended) The method of claim 157 further comprising decoding **[[**and**]]** **or** decompressing at least part of the device dependent output data corresponding to **at least part of** the digital content at the information apparatus for rendering ~~at one or more output devices~~.

167. (Currently amended) An output system for accessing **a digital content service over a network and for receiving device dependent output data from one or more servers over the network, the device dependent output data corresponding to at least part of digital content that is device specific and is acceptable for rendering at the output system** ~~for rendering digital content~~, the output system comprising:

an information apparatus ~~for receiving device dependent output data from one or more servers over a network, the device dependent output data corresponding to at least part of the digital content that is device specific and is acceptable for rendering at the output system~~;

an output device that is at least one of a display device**, or a projection device,** or an audio output device**,** for rendering at least part of the device dependent output data;

a display screen or projection **medium;** ~~screen;~~

an operating system;

a client application having a graphical user interface over the display screen or projection **medium** ~~screen~~ for interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system is operable for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display screen or projection **medium** ~~screen~~, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, from a user of the output system via the graphical user interface, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection;

delivering, from the output system, at least part of a content object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content;

delivering, by the output system, at least part of an output device object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the output device object including information related to at least part of the output system;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing **[[a]]** **the** digital content service provided by the one or more servers;

receiving, at the output system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information ~~related to at least part of the output system~~ included in the output device object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the output system for rendering;

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the output system; and

rendering by the at least one of a display device**, or a projection device,** or an audio output device included in the output system, at least part of the selected digital content that includes, at least in part, video or audio content.

168. (Currently amended) The system of claim 167 in which the output device object includes a device identification information or an address, and the **output** system is further operable for obtaining an output device object, the obtaining of the output device object includes obtaining information from ~~one or more~~ **at least one** of the following: (1) user input, (2) a communication with an output device, (3) obtaining information from one or more output devices, (4) retrieving a parameter stored in the output system, **or** **[[**and**]]** (5) a default parameter or preference associated with the output system, individually or in any combination.

169. (Previously presented) The system of claim 167 wherein the output system includes at least one of a television system, an output controller connected to a television, a laptop computer, a wireless output controller box wire connected to a television, a smart phone, an Internet pad, an Internet appliance or a digital camera, individually or in any combination.

170. (Currently amended) The system of claim **[[**169**]]** **167** in which the output device and the information apparatus are wire connected.

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171. (Previously presented) The system of claim 167 wherein the output system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at an output device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system over a network that includes the Internet, at least part of device dependent output data corresponding to digital content **that includes audio or video content is** acceptable for rendering at the output system, the output system including an information apparatus, **a client application,** and at least one of a display device or an audio output device, the digital content service system comprising:

one or more servers that are distinct and separate from the output system, the one or more servers being operable to receive from the output system a content object and at least part of an output device object, the content object including at least a pointer or reference to the digital content, the pointer or the reference being related to a selection by a user from among one or more pointers or references to digital content provided, at least in part, to the output system by the one or more servers, the output device object having information corresponding to the output system, the one or more servers being further operable to receive, from the output system, security or authentication information associated with the user for authentication of the user, and the one or more servers being further operable to receive, from the output system, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the output system;

one or more server applications on the one or more servers for generating the device dependent output data **after having received a selected digital content and at least payment or subscription information**, the device dependent output data having a relationship, at least in part, to the information related to the output system, and the generating of the device dependent output data includes (1) applying a compression operation on at least part of the digital content, and (2) applying an encryption scheme

with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; **and**

~~a client application for running at the information apparatus and for interacting with a user via a graphical user interface over the display device, the client application facilitated at least partly by an operating system operating at the information apparatus; and~~

wherein, the client application communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content **that includes audio or video content**.

173. (Currently amended) The system of claim 172 wherein the client application ~~at the information apparatus~~ is further operable for decoding at least part of the device dependent output data received from the one or more servers for rendering at the output system at least part of the digital content.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device and the device dependent output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system is a television system, and the information apparatus and the at least one of a display device and an audio output device is part of a television system.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to a selected digital content, and the one or more server applications further retrieve the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device, containing **one or more** server applications executable by a processor at a server system for ~~generating~~ **transmitting** device dependent output data acceptable for rendering at ~~one or more~~ **an** output **system,** ~~devices,~~ the ~~one or more~~ output **system** ~~devices~~ including ~~at least~~ **one or more** of a display device, a projection device, an audio output device, a television, **an information apparatus**, or a display screen associated with an information apparatus, **individually or combination,** the server system including one or more servers that are accessible by an information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the ~~one or more~~ output **system** ~~devices~~, the **one or more** server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the **output system that includes an** information apparatus, one or more content objects, the one or more content objects including one or more pointers or references to digital content corresponding to one or more selection by a user at the **output system** ~~information apparatus~~ from among one or more pointers or references provided, at least in part, to the **output system** ~~information apparatus~~ by the server system;

receive, by the server system from the **output system that includes an** information apparatus, one or more output device objects, the one or more output device objects having information related to the ~~one or more~~ output **system** ~~devices~~; and

receive, by the server system and from the **output system that includes an** information apparatus, security or authentication information associated with a user operating the **output system** ~~information apparatus~~ for authentication of the user;

retrieve, by the server system, **at least part of** the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the **output system that includes an** information apparatus;

generate, by the server system, the device dependent output data associated

with **at least part of** the digital content for rendering at the **output system** ~~one or more output devices~~, the device dependent output data associated with **at least part of** the digital content having a relationship, at least in part, to the information ~~related to the one or more output devices~~ included in the one or more output device objects received by the server system;

apply, by the server system, ~~a compression~~ **an encoding** operation on **at least part of** the digital content for transmitting the device dependent output data associated with the digital content;

apply, by the server system, an encryption scheme on **at least part of** the digital content for ensuring security of **at least part of** the digital content that is device dependent for rendering; and

transmit, by the server system, at least part of the device dependent output data associated with at least part of the digital content to the **output system** ~~information apparatus~~ over the network that includes the Internet ~~subsequent to~~ **after** having received **at least** the security or authentication information, ~~the payment or subscription information,~~ the one or more content objects, and the one or more output device objects from the **output system** ~~information apparatus~~.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Currently amended) The memory or storage device of claim 177 in which the **output system that includes an** information apparatus further renders **at least part of** the device dependent output data at the display screen of the information apparatus.

180. (Currently amended) In a computer memory or storage device, containing client software executable by a processor at an information apparatus for obtaining device dependent output data ~~acceptable~~ for rendering at an output device associated with the information apparatus, the output device including at least one of a display device or an audio output device, the information apparatus including a graphical user

interface over a display screen for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content **that includes video content or audio content** for rendering, the computer memory or storage device containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network **that includes the Internet**; **and**

software executable at the information apparatus for providing over the graphical user interface at the display screen, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software executable at the information apparatus for receiving a selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content; **and**

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an output device object to the one or more servers that is distinct and separate from the information apparatus and the output device, the content object being associated with the selected digital content, and the output device object including information related to **at least one of device identification information, model information, brand information, registration information, or IP address information, individually or in any combination** ~~the output device~~, the content object and the output device object being required at the one or more servers for generating at least part of device dependent output data corresponding at least partly to the selected digital content and ~~acceptable~~ for rendering at the output device; **and**

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network **that includes the Internet**, security or authentication information associated with the user operating the information apparatus for authentication of the user; **and**

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software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the output device, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the information related to the output device included in the output device object delivered from the information apparatus to the one or more servers over the network **that includes the Internet**, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the device dependent output data **that includes an encryption scheme** received from the one or more servers; **and**

~~software executable at the information apparatus for decompressing at least part of the device dependent output data received from the one or more servers;~~

software executable at the information apparatus for ~~delivering at least part of the decoded and decompressed device dependent output data to the output device~~ for rendering **at least part of the decoded device dependent output data**.

181. (Currently amended) The computer memory or storage device of claim 180 **wherein the client application is facilitated by the operating system for installing the client application, by the user at the information apparatus, for expanding the functionalities of the information apparatus.** ~~Further comprising software executable at the information apparatus for establishing a wired or wireless communication channel between the information apparatus and the output device.~~

182. (Previously presented) The computer memory or storage device of claim 180 in which the output device is wire connected to the information apparatus.

183. (Currently amended) The computer memory or storage device of claim 180 in which the information apparatus is at least one of ~~a laptop computer, a desktop computer,~~ a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination.

184. (Previously presented) The computer memory or storage device of claim 180 in which the output device is a display screen or a television and the device dependent output data includes video data, and wherein a connection between the information apparatus and the output device includes a wired connection.

185. (Previously presented) The computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, audio data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The computer memory or storage device of claim 180 in which the information apparatus and the output device are part of an output system, and the output device is associated with a television, and the information apparatus delivers **over wireless communication** at least part of the **digital content that includes video content or audio content** ~~device-dependent-output-data~~ to the television for rendering at the television.

187. (Previously presented) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188. (Currently amended) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content **received from the digital content service** to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus.

189. (Currently amended) The memory or storage device of claim 177 in which

the ~~one or more~~ output **system** ~~devices~~ includes a television or a projection device and the information apparatus is either wire or wireless connected to the television or the projection device.

190. (Currently amended) The memory or storage device of claim 177 in which the one or more content objects received from the **output system** ~~information apparatus~~ at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Previously presented) The memory or storage device of claim 177 in which the one or more output device objects include identification, a pointer, or a reference, the identification including one or more of an output device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Previously presented) The system of claim 172 in which the one or more content objects further includes at least part of the digital content for storing at the one or more content servers.

193. (Previously presented) The system of claim 172 in which the information apparatus and the at least one of a display device and an audio output device included in the output system are wire connected.

194. (Previously presented) The system of claim 167 further enables operations for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Previously presented) The system of claim 167 in which the information apparatus is connected to the output device over a wireless network connection or a

wired connection.

196. (Previously presented) The system of claim 167 in which the output system is a television system.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the output system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Currently amended) The system of claim 167 in which the information apparatus is at least one of a laptop computer, a desktop computer, a networked computer, a smart phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination**, and the information apparatus is operable for receiving at least part of the device dependent output data from the digital content service provided by the one or more servers over the network**.

199. (Currently amended) The method of claim 157 in which the information apparatus includes a wireless communication unit and the connection between the information apparatus and the one or more servers over a network that includes the Internet includes a wireless connection ~~over~~ **via** the wireless communication unit **of the information apparatus**.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated February 19, 2015

A Notice of Allowance was mailed on February 19, 2015 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

However, Applicant noticed that the title in Notice of Allowance does not reflect the correct title of the present application as amended by the Amendment Accompanying Request for Continued Examination (RCE) filed on January 15, 2015. Accordingly, Applicant is not certain if the latest title, abstract, and claims have been correctly entered. Thus, Applicant filed this Amendment Accompanying RCE to ensure that the present application includes the correct title, abstract and claims. Applicant respectfully requests correct entry of the amendments to the title, abstract, and claims as shown above.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined by the same Examiner in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Title of Application

The title of this application has been amended to improve clarity and consistency with the claims. Applicant respectfully requests correct entry of the latest title as shown above.

4. Abstract of Application

The abstract of the application has not been amended. However, Applicant resubmits the abstract to facilitate entry of the latest abstract. Applicant respectfully requests correct entry of the latest abstract as shown above.

5. Claims of Application

Because Applicant is filing a RCE, Applicant has taken the opportunity to further review the claims in the application. In reviewing the claims, Applicant found minor issues related to typographical errors, clarity, antecedence, and consistency. Therefore, Applicant has amended the claims to improve grammar, clarity, and consistency as well as to remove minor redundancies or repetitive elements in some of the claims. Applicant respectfully requests correct entry of the latest claims as shown above.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on May 18, 2015.

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Respectfully submitted,

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(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

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	2	8972610		2015-03-03	Chang	
	3	8989064		2015-03-24	Chang et al.	
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	Examiner Name	Esther Benoit Henderson
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	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-05-18
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, LAPTOPS, SMART TELEVISIONS, OR CONTROLLER BOXES CONNECTABLE TO TELEVISIONS
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2nd and Subsequent Request	2820	1	850	850
		Total in USD ($)		**850**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	22373550
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, LAPTOPS, SMART TELEVISIONS, OR CONTROLLER BOXES CONNECTABLE TO TELEVISIONS
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	18-MAY-2015
Filing Date:	18-NOV-2001
Time Stamp:	14:32:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$850

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

RAM confirmation Number	906
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	20150518_RCE_FXT312.pdf	697601 07ac9d8b9e9c51c87d129866a3ce4dc717a90 4b5ff	no	3
Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20150518_Amendment_Accompanying_RCE_FXT312.pdf	158574 b9a9de0188e963917e2e5d91c02bbc72713 4b5f7	no	27
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20150518_IDS_FXT312.pdf	612412 118c641f8c072bda1b1199d7dade92619792 68e2	no	4
Warnings:					
Information:					
4	Non Patent Literature	NPL1_20150121_Supplemental_Notice_of_Allowability.pdf	460384 99eb3cf1883d8432410a9a1dc028e47c1811 c1bb	no	7
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30846 445eb0167e97de3e51960ba45dac6012062 2891	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1959817		

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/06 (09-11)
Approved for use through 1/31/2014 OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	05/18/2015	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	· 69	Minus	·· 69	= 0	X $40 =	0
	Independent (37 CFR 1.16(h))	· 7	Minus	···7	= 0	X $210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/EVELYN NIMMONS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
09/992,413	11/18/2001	2453	1031	FXT312	65	7

CONFIRMATION NO. 5528

CORRECTED FILING RECEIPT

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204



Date Mailed: 05/01/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

Applicant(s)

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

Power of Attorney: The patent practitioners associated with Customer Number 23581

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/252,682 11/20/2000

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 04/30/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 09/992,413**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Title

SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, LAPTOPS, SMART TELEVISIONS, OR CONTROLLER BOXES CONNECTABLE TO TELEVISIONS

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 02/19/2015

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 02/19/2015

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	05/19/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 02/19/2015

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	05/19/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
HENDERSON, ESTHER BENOIT	2453	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

75/90 02/19/2015

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	
ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 02/19/2015

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER B. HENDERSON	Art Unit 2453	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *1/15/2015*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1/15/2015, 2/11/2015
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther B. Henderson/
Primary Examiner, Art Unit 2453

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

SEARCH NOTES		
Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB

SEARCH NOTES		
Search Notes	Date	Examiner
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB
Update Search	2/6/2015	EBH

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB
	See Interference Search History	2/6/2015	EBH

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	29	((select$4 or choos$4) near (pointer or reference)) near (user or client) near2 (list or table)	US-PGPUB; USPAT	WITH	ON	2015/02/06 15:55
L2	25	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/02/06 16:04
L5	8606	(touch near2 (screen or pad)) and (install$4 or add$4 or download$4) near2 (software or application or app) and (payment or subscription) and (job or task or workflow) and (authenticat$4 or authoriz$6 or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/02/06 16:19
L6	95	(((cellular or mobile) or phone) near2 (send$4 or transmit$6 or transmission or deliver$4 or use or utiliz$4) near3 printer).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2015/02/06 16:32

2/6/2015 4:34:02 PM
C:\Users\ebenoit\Documents\EAST\Workspaces\09992413.wsp

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6199106		2001-03-06	Shaw et al.	
	2	6396598		2002-05-28	Kashiwagi et al.	
	3	6430599		2002-08-06	Baker et al.	
	4	6618039		2003-09-09	Grant et al.	
	5	6707581		2004-03-16	Browning	
	6	6952414		2005-10-04	Willig	
	7	7149726		2006-12-12	Lingle et al.	
	8	7239346		2007-07-03	Priddy	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 01/15/2015

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(**Not for submission under 37 CFR 1.99)**

Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010011302		2001-08-02	Son	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	02/05/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 01/15/2015	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-01-15
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/06/2015
	1	÷	-	-	-	-	-	-	-	-
	2	÷	-	-	-	-	-	-	-	-
	3	÷	-	-	-	-	-	-	-	-
	4	÷	-	-	-	-	-	-	-	-
	5	÷	-	-	-	-	-	-	-	-
	6	÷	-	-	-	-	-	-	-	-
	7	÷	-	-	-	-	-	-	-	-
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	22	÷	✓	-	-	-	-	-	-	-
	23	÷	-	-	-	-	-	-	-	-
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	25	÷	-	-	-	-	-	-	-	-
	26	÷	-	-	-	-	-	-	-	-
	27	÷	-	-	-	-	-	-	-	-
	28	÷	-	-	-	-	-	-	-	-
	29	÷	-	-	-	-	-	-	-	-
	30	÷	-	-	-	-	-	-	-	-
	31	÷	-	-	-	-	-	-	-	-
	32	÷	✓	-	-	-	-	-	-	-
	33	÷	✓	-	-	-	-	-	-	-
	34	÷	✓	-	-	-	-	-	-	-
	35	÷	✓	-	-	-	-	-	-	-
	36	÷	✓	-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/06/2015
	37	÷	✓	-	-	-	-	-	-	-
	38	÷	✓	-	-	-	-	-	-	-
	39	÷	✓	-	-	-	-	-	-	-
	40	÷	✓	-	-	-	-	-	-	-
	41	÷	✓	-	-	-	-	-	-	-
	42	÷	✓	-	-	-	-	-	-	-
	43	÷	✓	-	-	-	-	-	-	-
	44	÷	✓	-	-	-	-	-	-	-
	45	÷	✓	-	-	-	-	-	-	-
	46	÷	✓	-	-	-	-	-	-	-
	47	÷	✓	-	-	-	-	-	-	-
	48	÷	✓	-	-	-	-	-	-	-
	49	÷	✓	-	-	-	-	-	-	-
	50	÷	✓	-	-	-	-	-	-	-
	51	÷	✓	-	-	-	-	-	-	-
	52	÷	✓	-	-	-	-	-	-	-
	53	÷	✓	-	-	-	-	-	-	-
	54	÷	✓	-	-	-	-	-	-	-
	55	÷	✓	-	-	-	-	-	-	-
	56	÷	✓	-	-	-	-	-	-	-
	57	÷	✓	-	-	-	-	-	-	-
	58	÷	✓	-	-	-	-	-	-	-
	59	÷	-	-	-	-	-	-	-	-
	60	÷	-	-	-	-	-	-	-	-
	61	÷	-	-	-	-	-	-	-	-
	62	÷	-	-	-	-	-	-	-	-
	63	÷	-	-	-	-	-	-	-	-
	64	÷	-	-	-	-	-	-	-	-
	65	÷	-	-	-	-	-	-	-	-
	66			-	-	-	-	-	-	-
	67			-	-	-	-	-	-	-
	68			-	-	-	-	-	-	-
	69			-	-	-	-	-	-	-
	70			-	-	-	-	-	-	-
	71			-	-	-	-	-	-	-
	72			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/06/2015
	73			-	-	-	-	-	-	-
	74			-	-	-	-	-	-	-
	75			-	-	-	-	-	-	-
	76			-	-	-	-	-	-	-
	77			-	-	-	-	-	-	-
	78			-	-	-	-	-	-	-
	79			-	-	-	-	-	-	-
	80			-	-	-	-	-	-	-
	81			-	-	-	-	-	-	-
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	83			-	-	-	-	-	-	-
	84			-	-	-	-	-	-	-
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	93			-	-	-	-	-	-	-
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	96			-	-	-	-	-	-	-
	97			-	-	-	-	-	-	-
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	99			-	-	-	-	-	-	-
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	106			-	-	-	-	-	-	-
	107			-	-	-	-	-	-	-
	108			-	-	-	-	-	-	-

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/06/2015
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	113			-	-	-	-	-	-	-
	114			-	-	-	-	-	-	-
	115			-	-	-	-	-	-	-
	116			-	-	-	-	-	-	-
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	120			-	-	-	-	-	-	-
	121			-	-	-	-	-	-	-
	122			-	-	-	-	-	-	-
	123			-	-	-	-	-	-	-
	124			-	-	-	-	-	-	-
	125			-	-	-	-	-	-	-
	126			-	-	-	-	-	-	-
	127			-	-	-	-	-	-	-
	128			-	-	-	-	-	-	-
	129			-	-	-	-	-	-	-
	130			-	-	-	-	-	-	-
1	131			✓	✓	✓	✓	✓	=	=
2	132			✓	✓	✓	✓	✓	=	=
3	133			✓	✓	✓	✓	✓	=	=
4	134			✓	✓	✓	✓	✓	=	=
5	135			✓	✓	✓	✓	✓	=	=
6	136			✓	✓	✓	✓	✓	=	=
7	137			✓	✓	✓	✓	✓	=	=
8	138			✓	✓	✓	✓	✓	=	=
9	139			✓	✓	✓	✓	✓	=	=
10	140			✓	✓	✓	✓	✓	=	=
11	141			✓	✓	✓	✓	✓	=	=
12	142			✓	✓	✓	✓	✓	=	=
13	143			✓	✓	✓	✓	✓	=	=
14	144			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/06/2015
15	145			✓	✓	✓	✓	✓	=	=
16	146			✓	✓	✓	✓	✓	=	=
17	147			✓	✓	✓	✓	✓	=	=
18	148			✓	✓	✓	✓	✓	=	=
19	149			✓	✓	✓	✓	✓	=	=
20	150			✓	✓	✓	✓	✓	=	=
21	151			✓	✓	✓	✓	✓	=	=
22	152			✓	✓	✓	✓	✓	=	=
23	153			✓	✓	✓	✓	✓	=	=
24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
27	157			✓	✓	✓	✓	✓	=	=
28	158			✓	✓	✓	✓	✓	=	=
29	159			✓	✓	✓	✓	✓	=	=
30	160			✓	✓	✓	✓	✓	=	=
31	161			✓	✓	✓	✓	✓	=	=
32	162			✓	✓	✓	✓	✓	=	=
33	163			✓	✓	✓	✓	✓	=	=
34	164			✓	✓	✓	✓	✓	=	=
35	165			✓	✓	✓	✓	✓	=	=
36	166			✓	✓	✓	✓	✓	=	=
37	167			✓	✓	✓	✓	✓	=	=
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41	171			✓	✓	✓	✓	✓	=	=
42	172			✓	✓	✓	✓	✓	=	=
43	173			✓	✓	✓	✓	✓	=	=
44	174			✓	✓	✓	✓	✓	=	=
45	175			✓	✓	✓	✓	✓	=	=
46	176			✓	✓	✓	✓	✓	=	=
47	177			✓	✓	✓	✓	✓	=	=
48	178			✓	✓	✓	✓	✓	=	=
49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	02/06/2015
51	181			✓	✓	✓	✓	✓	=	=
52	182			✓	✓	✓	✓	✓	=	=
53	183			✓	✓	✓	✓	✓	=	=
54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
61	191			✓	✓	✓	✓	✓	=	=
62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
64	194			✓	✓	✓	✓	✓	=	=
65	195			✓	✓	✓	✓	✓	=	=
66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

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	1							☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 02/11/2015	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit Henderson	
	Attorney Docket Number	FXT312	

	1	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,689, February 3, 2015, 57 pages.	☐
	2	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,695, February 3, 2015, 57 pages.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Esther B. Henderson/	Date Considered	02/12/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 02/11/2015

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-02-11
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B.H

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	2557	((pointer or reference) near (user)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/02/06 16:18
L4	180	(select$2 near (pointer or reference) near (user)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/02/06 16:18
L7	19	((device near dependent) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/02/06 16:34
L8	0	((pointer or reference) near (content near object) same (device near dependent)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/02/06 16:34
L9	1	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2015/02/06 16:34

2/6/2015 4:41:14 PM
C:\Users\ebenoit\Documents\EAST\Workspaces\09992413.wsp

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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 5528

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/992,413	11/18/2001 RULE	709	2453	FXT312

APPLICANTS

INVENTORS

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

** **CONTINUING DATA** **********

This appln claims benefit of 60/252,682 11/20/2000

** **FOREIGN APPLICATIONS** **********

** IF **REQUIRED, FOREIGN FILING LICENSE GRANTED** ** ** SMALL ENTITY **

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ESTHER B. HENDERSON/ Examiner's Signature	☐ Met after Allowance E.B.H Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WA	10	65	7

ADDRESS

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

TITLE

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1031	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07)

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

CPC					
Symbol				Type	Version
G06F		3	/ 126	F	2013-01-01
G06F		3	/ 1204	I	2013-01-01
G06F		3	/ 1247	I	2013-01-01
G06F		3	/ 1288	I	2013-01-01
G06F		3	/ 1292	I	2013-01-01
G06Q		20	/ 102	I	2013-01-01
G06Q		40	/ 00	I	2013-01-01
H04L		12	/ 2805	I	2013-01-01
H04L		12	/ 2809	A	2013-01-01
H04L		12	/ 2812	I	2013-01-01
H04L		12	/ 2834	A	2013-01-01
H04L		12	/ 2838	A	2013-01-01
H04L		2012	/ 2849	A	2013-01-01
H04L		2012	/ 285	A	2013-01-01
H04L		67	/ 16	A	2013-01-01
H04L		67	/ 2823	I	2013-01-01
H04L		67	/ 303	I	2013-01-01
H04L		67	/ 2828	I	2013-01-01
H04L		67	/ 04	A	2013-01-01
H04L		67	/ 28	I	2013-01-01

CPC Combination Sets						
Symbol				Type	Set	Ranking	Version
			/				
			/				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	2/6/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20150206

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
709	217	G	0	6	F	15 / 16 (2006.01.01)						
CROSS REFERENCE(S)												
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)											

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	2/6/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20150206

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER B. HENDERSON	2453

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		28		55		82		109	6	136	33	163	60	190
	2		29		56		83		110	7	137	34	164	61	191
	3		30		57		84		111	8	138	35	165	62	192
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	5		32		59		86		113	10	140	37	167	64	194
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	7		34		61		88		115	12	142	39	169	66	196
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	9		36		63		90		117	14	144	41	171	68	198
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	11		38		65		92		119	16	146	43	173		
	12		39		66		93		120	17	147	44	174		
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	15		42		69		96		123	20	150	47	177		
	16		43		70		97		124	21	151	48	178		
	17		44		71		98		125	22	152	49	179		
	18		45		72		99		126	23	153	50	180		
	19		46		73		100		127	24	154	51	181		
	20		47		74		101		128	25	155	52	182		
	21		48		75		102		129	26	156	53	183		
	22		49		76		103		130	27	157	54	184		
	23		50		77		104	1	131	28	158	55	185		
	24		51		78		105	2	132	29	159	56	186		
	25		52		79		106	3	133	30	160	57	187		
	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER B. HENDERSON/ Examiner.Art Unit 2453	2/6/2015	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office

Part of Paper No. 20150206

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit Henderson
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	1							☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

	1	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,689, February 3, 2015, 57 pages.	☐
	2	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,695, February 3, 2015, 57 pages.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit Henderson
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-02-11
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	21463098
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	11-FEB-2015
Filing Date:	18-NOV-2001
Time Stamp:	13:39:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20150211_IDS_FXT312.pdf	612339	no	4
Warnings:					
Information:					
A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.					
2	Non Patent Literature	NPL1_20150203_OA.pdf	7818693	no	57
Warnings:					
Information:					
3	Non Patent Literature	NPL2_20150203_OA.pdf	7885589	no	57
Warnings:					
Information:					
		Total Files Size (in bytes):	16316621		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2453
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 111540

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-01-15
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: January 15, 2015

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Laptops, Smart Televisions, Or Controller Boxes Connectable To Televisions (as currently amended)
Examiner	:	Esther Benoit
Art Unit	:	2453
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 4
Amendments to the Drawings	None
Remarks	Begin on page 25

Amendments to the Specification

Please make the amendments below to the specification. Material to be inserted in replacement paragraphs or sections is in **bold and underline**, and material to be deleted is in ~~strikeout~~.

Please amend the title as follows:

~~[[Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or To Controllers Connectable To Televisions]]~~

Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Laptops, Smart Televisions, Or Controller Boxes Connectable To Televisions

Additionally, please replace the current abstract with the abstract provided on the next page.

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content on demand to information apparatus or output devices are herein disclosed and enabled. The protected digital content is device dependent or device specific for rendering at a smart phone, information pad, audio player, media controller, televisions, etc. To illustrate, an information apparatus may include a client application for accessing selected digital content from a subscribed content service or content store provided over the Internet. To access the selected digital content, the client application may send, to the content service or store, authentication information, payment or subscription information, and/or a reference to selected digital content. The service then generates encrypted device dependent output data associated with a device identification previously registered with the service for transmitting or streaming to the information apparatus or to the output device (e.g., televisions or television controllers) the digital content for rendering.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**.

1-130. (Cancelled)

131. (Previously presented) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus for rendering at an output device, the output device being associated with the information apparatus and including at least one of a display device or an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus, device dependent output data corresponding to the digital content, the device dependent output data being device specific and being acceptable for rendering at the output device, the one or more servers being distinct and separate from the information apparatus and the output device, and

one or more server applications at the one or more servers for generating the device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, at least part of one or more pointers or references to one or more digital content available at a content server for selection by a user at the information apparatus;

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including information associated with a

pointer or reference to a selected digital content, the pointer or the reference to a selected digital content being associated with a selection by the user at the information apparatus from among the at least part of one or more pointers or references provided to the information apparatus by the one or more servers;

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device;

retrieving, by the one or more server applications, the selected digital content from the content server employing, at least in part, the pointer or reference to the selected digital content included in the content object received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to the selected digital content and having a relationship, at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering at least part of the selected digital content at the output device, the output device being associated with the information apparatus and being at least one of a display device or an audio output device.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display

screen of the information apparatus, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Currently amended) The method of claim 131 **in which the information apparatus and the output device is part of an output system that includes a television** ~~further comprising receiving, from the information apparatus, one or more job objects having attributes corresponding to an output job, including one or more of an output quality, instructions, a preference, and a pointer or reference to another job object individually or in any combination~~.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the device dependent output data.

135. (Previously presented) The method of claim 131 in which the output device which is associated with the information apparatus is wired connected to the information apparatus.

136. (Previously presented) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

delivering, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers to the output device for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of a palmtop

computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information is provided automatically by the information apparatus.

139. (Previously presented) The method of claim 131 in which the payment information is provided through the information apparatus as entered by a user in response to a prompt to enter payment information.

140. (Previously presented) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Previously presented) The method of claim 140 in which the output device includes a display screen associated with the information apparatus.

142. (Previously presented) The method of claim 131 in which the output device, which is associated with the information apparatus, includes at least one of a television, an audio output device, or a music output device, individually or in any combination.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the output device

is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the device dependent output data includes audio data;

(2) a display device or a projection device and wherein the device dependent output data includes video data; or

(3) a television and wherein the device dependent output data includes audio data and video data.

145. (Previously presented) The method of claim 131 in which the output device object includes information corresponding to device identification information, model information, brand information, registration information, IP address information, individually or in any combination.

146. (Previously presented) The method of claim 131 in which the output device or the information apparatus decodes and decompresses at least part of the device dependent output data for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining device dependent output data corresponding to digital content from one or more servers over a network, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over

the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

installing at least part of the client application for expanding functionalities of the information apparatus;

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to a digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the client application and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, information associated with a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least part of a content object and at least part of an output device object to the one or more servers over a network, the content object being associated with the selected digital content and including a pointer or reference to the selected digital content, and the output device object including at least an attribute **or identification** related to an output device;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers related, at least in part, to the information included in the output device object and in the content object delivered from the information apparatus, and the device dependent

output data received from the one or more servers further including an encryption scheme for ensuring security of the device dependent output data that is device specific for rendering; and

decoding, at the information apparatus, **at least part of** the device dependent output data received from the one or more servers for rendering **of at least part** of the device dependent output data.

149. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for rendering at least part of the device dependent output data.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Previously presented) The apparatus of claim 148 further comprising transmitting at least part of the device dependent output data to an output device for rendering, the output device including one or more of a display device, a projection device, a television device, an audio output device, and an output controller connected to a television, individually or in any combination.

152. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering at least part of the selected digital content.

153. (Previously presented) The apparatus of claim 148 in which the information apparatus further includes one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units included at the information apparatus.

154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, a selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Currently amended) The apparatus of claim 148 in which the information apparatus is ~~a wireless mobile information apparatus and the wireless mobile information apparatus includes one or more~~ **at least one of a desktop computer,** a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Previously presented) A method for accessing digital content, by an information apparatus over a network that includes the Internet, the information apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and the one or more servers over a network that includes the Internet;

receiving, at the information apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least

partly, by the information apparatus;

delivering, from the information apparatus, at least partially a content object and one or more output device objects to one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus, the content object including information related to a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers, and the one or more output device objects including information corresponding to at least one of device identification information, model information, brand information, registration information, and IP address information, individually or in any combination;

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content and having a relationship, at least in part, to the content object delivered from the information apparatus to the one or more servers over the network that includes the Internet, the device dependent output data corresponding to the digital content further having a relationship, at least in part, to the one or more output device objects delivered from the information apparatus to the one or more servers over the network, and the device dependent output data corresponding to the digital content further including an encryption scheme for ensuring security of the digital content for rendering at least part of the device dependent output data.

158. (Currently amended) The method of claim 157 further comprising:

establishing a connection between the information apparatus and a television or [[via]] an output controller connected to [[the]] **a** television; and

transmitting, by the information apparatus, at least part of the device dependent

output data corresponding to at least part of the digital content over the connection for rendering of the at least part of the digital content at the television.

159. (Currently amended) The method of claim 157 in which the information apparatus is ~~a wireless mobile information apparatus that includes one or more~~ **at least one** of a palmtop computer, **a desktop computer, a networked computer,** a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the information apparatus to the one or more servers over the network as payment for digital content service.

161. (Previously presented) The method of claim 157 in which the information apparatus includes a display screen for rendering at least part of the digital content.

162. (Currently amended) The method of claim 157 in which the content object includes **at least part of** the digital content for storing at the one or more servers.

163. (Currently amended) The method of claim 157 in which the information apparatus is part of **an output system that includes** a television**, at least part of the output** system operable for accessing digital content service over the Internet.

164. (Previously presented) The method of claim 157 in which the information apparatus is wired connected to a television.

165. (Currently amended) The method of claim 157 in which the information apparatus includes a ~~wireless~~ **network** communication unit and the method further comprising the information apparatus establishing a **wired or** wireless connection, via the ~~wireless~~ **network** communication unit, with at least one of a display device, a television, a controller wire connected to a television, or an audio output device,

individually or in any combination, for transmitting at least part of the digital content over the **wired or** wireless connection for rendering.

166. (Previously presented) The method of claim 157 further comprising decoding and decompressing at least part of the device dependent output data corresponding to the digital content at the information apparatus for rendering at one or more output devices.

167. (Currently amended) An output system for rendering digital content, the output system comprising:

an information apparatus for receiving device dependent output data from one or more servers over a network, the device dependent output data corresponding to at least part of the digital content that is device specific and is acceptable for rendering at the output system;

an output device that is at least one of a display device [[and]] **or** an audio output device for rendering at least part of the device dependent output data;

a display **screen or projection** screen;

an operating system;

a client application having a graphical user interface over the display **screen or projection** screen for interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system is operable for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display **screen or projection** screen, the one or more pointers or references to the one or more digital content for selection by the user;

receiving, from a user of the output system via the graphical user interface ~~over~~

~~the display screen~~, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection;

delivering, from the output system, at least part of a content object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content;

delivering, by the output system, at least part of an output device object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the output device object including information related to at least part of the output system;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing a digital content service provided by the one or more servers;

receiving, at the output system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information related to at least part of the output system included in the output device object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the output system for rendering;

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the output system; and

rendering by the at least one of a display device or an audio output device included in the output system, at least part of the selected digital content that includes, at least in part, video or audio content.

168. (Previously presented) The system of claim 167 in which the output device

object includes a device identification information or an address, and the system is further operable for obtaining an output device object, the obtaining of the output device object includes obtaining information from one or more of the following: (1) user input, (2) a communication with an output device, (3) obtaining information from one or more output devices, (4) retrieving a parameter stored in the output system, and (5) a default parameter or preference associated with the output system, individually or in any combination.

169. (Currently amended) The system of claim 167 wherein the output system includes at least one of a television system, an output controller connected to a television, **a laptop computer, a wireless output controller box wire connected to a television,** a smart phone, an Internet pad, an Internet appliance or a digital camera, individually or in any combination.

170. (Previously presented) The system of claim 169 in which the output device and the information apparatus are wire connected.

171. (Previously presented) The system of claim 167 wherein the output system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at an output device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A digital content service system for transmitting to an output system over a network that includes the Internet, at least part of device dependent output data corresponding to digital content acceptable for rendering at the output system, the output system including an information apparatus and at least one of a display device [[and]] **or** an audio output device, the digital content service system comprising:

one or more servers that are distinct and separate from the output system, the one or more servers being operable to receive from the output system a content object

and at least part of an output device object, the content object including at least a pointer or reference to the digital content, the pointer or the reference being related to a selection by a user from among one or more pointers or references to digital content provided, at least in part, to the output system by the one or more servers, the output device object having information corresponding to the output system, the one or more servers being further operable to receive, from the output system, security or authentication information associated with the user for authentication of the user, and the one or more servers being further operable to receive, from the output system, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the output system;

one or more server applications on the one or more servers for generating the device dependent output data, the device dependent output data having a relationship, at least in part, to the information related to the output system, and the generating of the device dependent output data includes (1) applying a compression operation on at least part of the digital content, and (2) applying an encryption scheme with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; and

a client application **for running at the information apparatus and** for interacting with a user ~~at the information apparatus~~ via a graphical user interface over the display device, the client application facilitated at least partly by an operating system operating at the information apparatus; and

wherein, the client application ~~at the information apparatus~~ communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content.

173. (Previously presented) The system of claim 172 wherein the client application at the information apparatus is further operable for decoding at least part of the device dependent output data received from the one or more servers for rendering

at the output system at least part of the digital content.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device and the device dependent output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system is a television system, and the information apparatus and the at least one of a display device and an audio output device is part of a television system.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to a selected digital content, and the one or more server applications further retrieve the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Currently amended) In a computer memory or storage device, containing server applications executable by a processor at a server system for generating device dependent output data acceptable for rendering at one or more output devices, the one or more output devices including at least one of a display device, **a projection device,** an audio output device, a television, or a display screen **associated with** ~~of the~~ **an** information apparatus, ~~the device dependent output data for transmitting, at least partly, to an information apparatus,~~ the server system including one or more servers that are accessible by [[the]] **an** information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the one or more output devices, the server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the information apparatus, one or more content objects, the one or more content objects ~~being associated with the digital content,~~ including one or more pointers or references to digital content corresponding to

one or more selection by a user at the information apparatus from among one or more pointers or references provided, at least in part, to the information apparatus by the server system;

receive, by the server system from the information apparatus, one or more output device objects, the one or more output device objects having information related to the one or more output devices; and

receive, by the server system and from the information apparatus, security or authentication information associated with a user operating the information apparatus for authentication of the user;

~~receive, by the server system and from the information apparatus, payment or subscription information for accessing a digital content service provided by the server system;~~

retrieve, by the server system, the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the information apparatus;

generate, by the server system, the device dependent output data associated with the digital content for rendering at the one or more output devices, the device dependent output data associated with the digital content having a relationship, at least in part, to the information related to the one or more output devices included in the one or more output device objects received by the server system;

apply, by the server system, a compression operation on the digital content for transmitting the device dependent output data associated with the digital content;

apply, by the server system, an encryption scheme on the digital content for ensuring security of the digital content that is device dependent for rendering; and

transmit, by the server system, at least part of the device dependent output data associated with at least part of the digital content to the information apparatus over the network that includes the Internet subsequent to having received the security or authentication information, the payment or subscription information, the one or more content objects, and the one or more output device objects from the information apparatus.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Previously presented) The memory or storage device of claim 177 in which the information apparatus further renders the device dependent output data at the display screen of the information apparatus.

180. (Currently amended) In a computer memory or storage device, containing client software executable by a processor at an information apparatus for obtaining device dependent output data acceptable for rendering at an output device associated with the information apparatus, the output device including at least one of a display device or an audio output device, the information apparatus including a graphical user interface over a display screen for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content for rendering, the computer memory or storage device containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network;

software executable at the information apparatus for providing over the graphical user interface at the display screen, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software executable at the information apparatus for receiving a selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content;

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an output device object to the one or more servers that is distinct and separate from the

information apparatus and the output device, the content object being associated with the selected digital content, and the output device object including information related to the output device, the content object and the output device object being required at the one or more servers for generating at least part of device dependent output data corresponding at least partly to the selected digital content and acceptable for rendering at the output device;

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network, security or authentication information associated with the user operating the information apparatus for authentication of the user;

software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the output device, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the information related to the output device included in the output device object delivered from the information apparatus to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for decompressing at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for delivering at least part of the decoded and decompressed device dependent output data to the output device for rendering ~~of the selected digital content~~.

181. (Currently amended) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for establishing a **wired or** wireless communication channel between the information apparatus and the output device.

182. (Previously presented) The computer memory or storage device of claim

180 in which the output device is wire connected to the information apparatus.

183. (Currently amended) The computer memory or storage device of claim 180 in which the information apparatus is ~~a wireless information apparatus and includes one or more of a palmtop computer, a handheld computer,~~ **at least one of** a laptop computer, **a desktop computer,** a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, [[and]] **or** a digital camera, individually or in any combination.

184. (Currently amended) The computer memory or storage device of claim 180 in which the output device is a display screen **or a television** and the device dependent output data includes video data, and wherein a connection between the information apparatus and the output device includes a wired connection.

185. (Currently amended) The computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, **audio data,** and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The computer memory or storage device of claim 180 in which **the information apparatus and** the output device **are part of an output system, and the output device is associated with** ~~is part of~~ a television ~~system~~, and the information apparatus delivers at least part of the device dependent output data to the television ~~system~~ for rendering at the television.

187. (Previously presented) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188. (Previously presented) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content to a television for rendering, the television is either (1) wire connected to the information apparatus or (2) wirelessly connected to the information apparatus.

189. (Currently amended) The memory or storage device of claim 177 in which the one or more output devices includes a television **or a projection device** and the information apparatus is either wire **or wireless** connected to the television **or the projection device** ~~wirelessly connected to the television~~.

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the information apparatus at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Currently amended) The memory or storage device of claim 177 in which the one or more output device objects include identification, **a pointer, or a reference,** the identification including one or more of an output device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Previously presented) The system of claim 172 in which the one or more content objects further includes at least part of the digital content for storing at the one or more content servers.

193. (Previously presented) The system of claim 172 in which the information apparatus and the at least one of a display device and an audio output device included in the output system are wire connected.

194. (Previously presented) The system of claim 167 further enables operations

for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Currently amended) The system of claim 167 in which the information apparatus is connected to the output device over a wireless **network connection or a wired** connection.

196. (Previously presented) The system of claim 167 in which the output system is a television system.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the output system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Currently amended) The system of claim 167 in which the information apparatus is **at least one of a laptop computer, a desktop computer, a networked computer, a smart phone, an Internet pad, an Internet appliance, or a digital camera, individually or in any combination** ~~a wireless information apparatus, and the wireless information apparatus includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination~~.

199. (Previously presented) The method of claim 157 in which the information apparatus includes a wireless communication unit and the connection between the information apparatus and the one or more servers over a network that includes the Internet includes a wireless connection over the wireless communication unit.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated October 15, 2014

A Notice of Allowance was mailed on October 15, 2014 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Accordingly, Applicant filed this Request for Continued Examination so that a supplemental Information Disclosure Statement listing those references can be filed.

Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined by the same Examiner in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Title of Application

The title of this application has been amended for clarity and consistency.

4. Abstract of Application

The abstract of the application has been amended for clarity and consistency.

5. Claims of Application

In reviewing the claims, applicant found minor issues related to typographical errors, clarity, and consistency. Therefore, the claims of the application have been amended to improve grammar, clarity, and consistency.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on January 15, 2015.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

KOLISCH HARTWELL, P.C.

/Peter D. Sabido/
Peter D. Sabido
Registration No. 50353
Customer No. 23581
Attorney for Assignee
520 SW Yamhill Street, Suite 200
Portland, Oregon 97204-1324
Telephone: (503) 224-6655
Facsimile: (503) 972-9115

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6199106		2001-03-06	Shaw et al.	
	2	6396598		2002-05-28	Kashiwagi et al.	
	3	6430599		2002-08-06	Baker et al.	
	4	6618039		2003-09-09	Grant et al.	
	5	6707581		2004-03-16	Browning	
	6	6952414		2005-10-04	Willig	
	7	7149726		2006-12-12	Lingle et al.	
	8	7239346		2007-07-03	Priddy	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010011302		2001-08-02	Son	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2015-01-15
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE- 2nd and Subsequent Request	2820	1	850	850
		Total in USD ($)		**850**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	21225990
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	15-JAN-2015
Filing Date:	18-NOV-2001
Time Stamp:	20:57:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$850

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Lexmark v. Flexiworld

RAM confirmation Number	6901
Deposit Account	
Authorized User	

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	20150115_RCE_FXT312.pdf	697595 92a9ae1d0a638ff8287ccc7c501ff39cd503c8 0c	no	3
Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20150115_Amendment_Accompanying_RCE_FXT312.pdf	151600 940a7e6168131f080206f527f9b0c8191e 702e1	no	26
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20150115_IDS_FXT312.pdf	612492 162ad4f0acce1302fd1108e5cb7837590c29 db88f	no	4
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30762 8c9a1d9fb7433a03bcec971d9024f9bf76d db6a1	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1492449		

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Lexmark v. Flexiworld

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Lexmark v. Flexiworld

PTO/SB/06 (09-11)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 01/15/2015

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
Independent (37 CFR 1.16(h))	* 7	Minus	*** 7	= 0	x $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/STEFANIE BRYCE/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: December 11, 2014

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Apparatus, Smart Televisions, Or To Controllers Connectable To Televisions
Examiner	:	Esther Benoit
Art Unit	:	2453
Confirmation No.:		5528

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

S i r :

STATEMENT OF THE SUBSTANCE OF THE INTERVIEW

In response to the Interview Summary dated November 18, 2014, Applicant submits the following as a statement of the substance of the interview:

Applicant thanks Examiner Esther Benoit for a telephone interview on November 13, 2014. During the interview, amendments to the claims shown in the Proposed Amendment faxed to Examiner Benoit on November 12, 2014 were discussed. Additionally, differences between the subject matter recited in claims 131-200 of the present application and the subject matter recited in the claims of copending Application Serial Nos. 12/204,689 and 12/204,695 were discussed. For example, device dependent output data recited in claims 131-200 of the present application were discussed, which is not recited in the claims of copending Application Serial Nos. 12/204,689 and 12/204,695.

Examiner Benoit stated that if "device dependent output data" is recited in all of the independent claims of the present application, then that should be sufficient to overcome the double patenting rejections of the claims of copending Application Serial

Nos. 12/204,689 and 12/204,695 based on the claims of the present application. Additionally, Examiner Benoit stated that the amendments shown in the Proposed Amendment dated November 12, 2014 are not helpful or necessary in overcoming the double patenting rejections. Therefore, Examiner Benoit and the undersigned attorney agreed not to amend claims 131-200 of the present application.

Applicant thanks Examiner Benoit for her time and comments.

Examiner Benoit is encouraged to telephone the undersigned at (503) 224-6655 or the Applicant William Chang at (503)-381-7056 if it appears that an additional interview would be helpful in advancing the case.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on December 11, 2014.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

KOLISCH HARTWELL, P.C.

/Peter D. Sabido/

Peter D. Sabido
Registration No. 50353
Customer No. 23581
Attorney for Assignee
520 SW Yamhill Street, Suite 200
Portland, Oregon 97204-1324
Telephone: (503) 224-6655
Facsimile: (503) 972-9115

Electronic Acknowledgement Receipt

EFS ID:	20939607
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	11-DEC-2014
Filing Date:	18-NOV-2001
Time Stamp:	17:56:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant summary of interview with examiner	20141211_Statement_of_the_Substance_of_the_Interview_FXT312.pdf	74856	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	74856		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

7590 11/18/2014

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
HENDERSON, ESTHER BENOIT	

ART UNIT	PAPER NUMBER
2453	

MAIL DATE	DELIVERY MODE
11/18/2014	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	09/992,413	CHANG ET AL.	
	Examiner	Art Unit	
	ESTHER B. HENDERSON	2453	

All participants (applicant, applicant's representative, PTO personnel):

(1) *ESTHER B. HENDERSON*. (3)_____.

(2) *Peter Sabido (Reg. No. 50,353)*. (4)_____.

Date of Interview: *13 November 2014*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☒Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *All*.

Identification of prior art discussed: *N/A*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Applicant(s)' representative discussed proposed minor amendments to better place the claims in condition for allowance. The examiner urged the proposed amendments to claim 148 would cause 101 issues if entered. No formal agreement was reached as to whether the proposed amendments were necessary to maintain allowability .

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☒ Attachment

/Esther B. Henderson/ Primary Examiner, Art Unit 2453	

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Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: November 12, 2014

William Ho Chang

Serial No. : 09/992,413
Filed : 11/18/2001
For : Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Apparatus, Smart Televisions, Or To Controllers Connectable To Televisions
Examiner : Esther Benoit
Art Unit : 2453
Confirmation No.: 5528

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

S i r :

PROPOSED AMENDMENT – DO NOT ENTER

Please consider, but **do not enter**, the following amendments:

Amendments to the Specification	None
Amendments to the Claims	Begin on page 2
Amendments to the Drawings	None
Remarks	None

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Amendments to the Specification

Please make the following amendments to the specification. Material to be inserted in replacement paragraphs or sections is in **bold and underline**, and material to be deleted is in ~~strikeout~~.

Please replace the current abstract with the abstract provided on the next page.

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ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content on demand to information apparatus or output devices are herein disclosed and enabled. The protected digital content is device dependent or device specific for rendering at an information apparatus, audio player, media controller, televisions, among others. To illustrate, an information apparatus may include a client application for accessing selected digital content from a subscribed content service or content store provided over the Internet. To access the selected digital content, the client application may send, to the service, authentication information, payment or subscription information, a reference to selected digital content, and device identification information. The service then generates encrypted device dependent output data associated with the device identification for transmitting or streaming to the information apparatus or to the output device (e.g., televisions or television controllers) for rendering of the protected digital content.

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Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in double brackets [[ ]].

1-130. (Cancelled)

131. (Previously presented) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus for rendering at an output device, the output device being associated with the information apparatus and including at least one of a display device or an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus, device dependent output data corresponding to the digital content, the device dependent output data being device specific and being acceptable for rendering at the output device, the one or more servers being distinct and separate from the information apparatus and the output device, and

one or more server applications at the one or more servers for generating the device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, at least part of one or more pointers or references to one or more digital content available at a content server for selection by a user at the information apparatus;

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including information associated with a

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pointer or reference to a selected digital content, the pointer or the reference to a selected digital content being associated with a selection by the user at the information apparatus from among the at least part of one or more pointers or references provided to the information apparatus by the one or more servers;

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device;

retrieving, by the one or more server applications, the selected digital content from the content server employing, at least in part, the pointer or reference to the selected digital content included in the content object received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to the selected digital content and having a relationship, at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering at least part of the selected digital content at the output device, the output device being associated with the information apparatus and being at least one of a display device or an audio output device.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display

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screen of the information apparatus, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Currently amended) The method of claim 131 further comprising receiving, from the information apparatus, ~~one or more job objects having~~ one or more attributes corresponding to ~~an output job, including~~ one or more of an output quality, instructions, a preference, and a pointer or reference to another ~~job~~ object, individually or in any combination.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the device dependent output data.

135. (Previously presented) The method of claim 131 in which the output device which is associated with the information apparatus is wired connected to the information apparatus.

136. (Previously presented) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

delivering, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers to the output device for rendering of at least part of the selected digital content.

137. (Currently amended) The method of claim 131 in which the information apparatus is a **laptop computer, a desktop computer, or a networked computer, individually or in any combination.** ~~wireless information apparatus and includes at~~

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~~least one of a palmtop computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination~~.

138. (Previously presented) The method of claim 131 in which the payment or subscription information is provided automatically by the information apparatus.

139. (Previously presented) The method of claim 131 in which the payment information is provided through the information apparatus as entered by a user in response to a prompt to enter payment information.

140. (Previously presented) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

141. (Previously presented) The method of claim 140 in which the output device includes a display screen associated with the information apparatus.

142. (Previously presented) The method of claim 131 in which the output device, which is associated with the information apparatus, includes at least one of a television, an audio output device, or a music output device, individually or in any combination.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the output device

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is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the device dependent output data includes audio data;

(2) a display device or a projection device and wherein the device dependent output data includes video data; or

(3) a television and wherein the device dependent output data includes audio data and video data.

145. (Previously presented) The method of claim 131 in which the output device object includes information corresponding to device identification information, model information, brand information, registration information, IP address information, individually or in any combination.

146. (Previously presented) The method of claim 131 in which the output device or the information apparatus decodes and decompresses at least part of the device dependent output data for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining device dependent output data corresponding to digital content from one or more servers over a network **that includes the Internet**, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

~~a touch sensitive screen;~~

a graphical user interface ~~over the touch sensitive screen for selecting an icon and for scrolling display~~; and

a client application for interacting with a user via the graphical user interface ~~over~~

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~~the touch sensitive screen of the information apparatus~~, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

~~installing at least part of the client application for expanding functionalities of the information apparatus;~~

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus, and in dependence of successful authentication of the user, enabling the user access to a digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, by **the client application at** the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the client application and from a user of the information apparatus via the graphical user interface ~~over the touch sensitive screen~~, information associated with a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least part of a content object and at least part of an output device object to the one or more servers over a network, the content object being associated with the selected digital content and including a pointer or reference to the selected digital content, and the output device object including at least an attribute **or identification** related to an output device;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers related, at least in part, to the information included in the output device object and in the content object delivered from the information apparatus, and the device dependent

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output data received from the one or more servers further including an encryption scheme for ensuring security of the device dependent output data that is device specific for rendering **at the output device**; and

decoding, at the information apparatus, the device dependent output data received from the one or more servers for rendering **at least part** of the device dependent output data.

149. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for rendering at least part of the device dependent output data.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Previously presented) The apparatus of claim 148 further comprising transmitting at least part of the device dependent output data to an output device for rendering, the output device including one or more of a display device, a projection device, a television device, an audio output device, and an output controller connected to a television, individually or in any combination.

152. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering at least part of the selected digital content.

153. (Currently amended) The apparatus of claim 148 in which the information apparatus further includes one or more ~~wireless~~ **network** communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more ~~wireless~~ **network** communication units included at the information apparatus.

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154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, a selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Currently amended) The apparatus of claim 148 in which the information apparatus is a **laptop computer, a desktop computer, or a networked computer**, **individually or in any combination.** ~~wireless mobile information apparatus and the wireless mobile information apparatus includes one or more of a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.~~

157. (Previously presented) A method for accessing digital content, by an information apparatus over a network that includes the Internet, the information apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and the one or more servers over a network that includes the Internet;

receiving, at the information apparatus over the network from the one or more

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servers, one or more pointers or references to digital content that is accessible, at least partly, by the information apparatus;

delivering, from the information apparatus, at least partially a content object and one or more output device objects to one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus, the content object including information related to a pointer or reference to the digital content, the pointer or the reference to the digital content being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers, and the one or more output device objects including information corresponding to at least one of device identification information, model information, brand information, registration information, and IP address information, individually or in any combination;

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content and having a relationship, at least in part, to the content object delivered from the information apparatus to the one or more servers over the network that includes the Internet, the device dependent output data corresponding to the digital content further having a relationship, at least in part, to the one or more output device objects delivered from the information apparatus to the one or more servers over the network, and the device dependent output data corresponding to the digital content further including an encryption scheme for ensuring security of the digital content for rendering at least part of the device dependent output data.

158. (Previously presented) The method of claim 157 further comprising:

establishing a connection between the information apparatus and a television or via an output controller connected to the television; and

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transmitting, by the information apparatus, at least part of the device dependent output data corresponding to at least part of the digital content over the connection for rendering of the at least part of the digital content at the television.

159. (Currently amended) The method of claim 157 in which the information apparatus is a **laptop computer, a desktop computer, or a networked computer, individually or in any combination.** ~~wireless mobile information apparatus that includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.~~

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the information apparatus to the one or more servers over the network as payment for digital content service.

161. (Previously presented) The method of claim 157 in which the information apparatus includes a display screen for rendering at least part of the digital content.

162. (Previously presented) The method of claim 157 in which the content object includes the digital content for storing at the one or more servers.

163. (Previously presented) The method of claim 157 in which the information apparatus is part of a television system operable for accessing digital content service over the Internet.

164. (Previously presented) The method of claim 157 in which the information apparatus is wired connected to a television.

165. (Currently amended) The method of claim 157 in which the information apparatus includes a ~~wireless~~ **network** communication unit and the method further comprising the information apparatus establishing a ~~wireless~~ connection, via the

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~~wireless~~ **network** communication unit, with at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the digital content over the ~~wireless~~ **network** connection for rendering.

166. (Previously presented) The method of claim 157 further comprising decoding and decompressing at least part of the device dependent output data corresponding to the digital content at the information apparatus for rendering at one or more output devices.

167. (Previously presented) An output system for rendering digital content, the output system comprising:

an information apparatus for receiving device dependent output data from one or more servers over a network, the device dependent output data corresponding to at least part of the digital content that is device specific and is acceptable for rendering at the output system;

an output device that is at least one of a display device and an audio output device for rendering at least part of the device dependent output data;

a display screen;

an operating system;

a client application having a graphical user interface over the display screen for interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system is operable for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display screen, the one or more pointers or references to the one or more digital content

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for selection by the user;

receiving, from a user of the output system via the graphical user interface over the display screen, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection;

delivering, from the output system, at least part of a content object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content;

delivering, by the output system, at least part of an output device object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the output device object including information related to at least part of the output system;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing a digital content service provided by the one or more servers;

receiving, at the output system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information related to at least part of the output system included in the output device object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the output system for rendering;

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the output system; and

rendering by the at least one of a display device or an audio output device included in the output system, at least part of the selected digital content that includes, at least in part, video or audio content.

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168. (Previously presented) The system of claim 167 in which the output device object includes a device identification information or an address, and the system is further operable for obtaining an output device object, the obtaining of the output device object includes obtaining information from one or more of the following: (1) user input, (2) a communication with an output device, (3) obtaining information from one or more output devices, (4) retrieving a parameter stored in the output system, and (5) a default parameter or preference associated with the output system, individually or in any combination.

169. (Currently amended) The system of claim 167 wherein the output system includes at least one of a television system, an output controller connected to a television, **a laptop computer, a network computer, a wireless output controller box connected to a television** ~~a smart phone, an Internet pad, an Internet appliance or a digital camera~~, individually or in any combination.

170. (Previously presented) The system of claim 169 in which the output device and the information apparatus are wire connected.

171. (Previously presented) The system of claim 167 wherein the output system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at an output device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Previously presented) A digital content service system for transmitting to an output system over a network that includes the Internet, at least part of device dependent output data corresponding to digital content acceptable for rendering at the output system, the output system including an information apparatus and at least one of a display device and an audio output device, the digital content service system comprising:

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one or more servers that are distinct and separate from the output system, the one or more servers being operable to receive from the output system a content object and at least part of an output device object, the content object including at least a pointer or reference to the digital content, the pointer or the reference being related to a selection by a user from among one or more pointers or references to digital content provided, at least in part, to the output system by the one or more servers, the output device object having information corresponding to the output system, the one or more servers being further operable to receive, from the output system, security or authentication information associated with the user for authentication of the user, and the one or more servers being further operable to receive, from the output system, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the output system;

one or more server applications on the one or more servers for generating the device dependent output data, the device dependent output data having a relationship, at least in part, to the information related to the output system, and the generating of the device dependent output data includes (1) applying a compression operation on at least part of the digital content, and (2) applying an encryption scheme with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; and

a client application for interacting with a user at the information apparatus via a graphical user interface over the display device, the client application facilitated at least partly by an operating system operating at the information apparatus; and

wherein, the client application at the information apparatus communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital content.

173. (Previously presented) The system of claim 172 wherein the client application at the information apparatus is further operable for decoding at least part of

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the device dependent output data received from the one or more servers for rendering at the output system at least part of the digital content.

174. (Previously presented) The system of claim 172 in which the output system is an audio system or a sound output system, and the output system includes an audio output device and the device dependent output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output system is a television system, and the information apparatus and the at least one of a display device and an audio output device is part of a television system.

176. (Previously presented) The system of claim 172 in which the content object received from the output system includes a pointer or reference to a selected digital content, and the one or more server applications further retrieve the selected digital content from a content server for transmitting at least part of the selected digital content to the output system.

177. (Previously presented) In a computer memory or storage device, containing server applications executable by a processor at a server system for generating device dependent output data acceptable for rendering at one or more output devices, the one or more output devices including at least one of a display device, an audio output device, a television, or a display screen of the information apparatus, the device dependent output data for transmitting, at least partly, to an information apparatus, the server system including one or more servers that are accessible by the information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the one or more output devices, the server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the information apparatus, one or more content objects, the one or more content objects being associated with the digital content, including one or more pointers or references to digital content corresponding to

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one or more selection by a user at the information apparatus from among one or more pointers or references provided, at least in part, to the information apparatus by the server system;

receive, by the server system from the information apparatus, one or more output device objects, the one or more output device objects having information related to the one or more output devices;

receive, by the server system and from the information apparatus, security or authentication information associated with a user operating the information apparatus for authentication of the user;

receive, by the server system and from the information apparatus, payment or subscription information for accessing a digital content service provided by the server system;

retrieve, by the server system, the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the information apparatus;

generate, by the server system, the device dependent output data associated with the digital content for rendering at the one or more output devices, the device dependent output data associated with the digital content having a relationship, at least in part, to the information related to the one or more output devices included in the one or more output device objects received by the server system;

apply, by the server system, a compression operation on the digital content for transmitting the device dependent output data associated with the digital content;

apply, by the server system, an encryption scheme on the digital content for ensuring security of the digital content that is device dependent for rendering; and

transmit, by the server system, at least part of the device dependent output data associated with at least part of the digital content to the information apparatus over the network that includes the Internet subsequent to having received the security or authentication information, the payment or subscription information, the one or more content objects, and the one or more output device objects from the information apparatus.

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178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Previously presented) The memory or storage device of claim 177 in which the information apparatus further renders the device dependent output data at the display screen of the information apparatus.

180. (Previously presented) In a computer memory or storage device, containing client software executable by a processor at an information apparatus for obtaining device dependent output data acceptable for rendering at an output device associated with the information apparatus, the output device including at least one of a display device or an audio output device, the information apparatus including a graphical user interface over a display screen for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content for rendering, the computer memory or storage device containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network;

software executable at the information apparatus for providing over the graphical user interface at the display screen, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software executable at the information apparatus for receiving a selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content;

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an output device object to the one or more servers that is distinct and separate from the

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information apparatus and the output device, the content object being associated with the selected digital content, and the output device object including information related to the output device, the content object and the output device object being required at the one or more servers for generating at least part of device dependent output data corresponding at least partly to the selected digital content and acceptable for rendering at the output device;

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network, security or authentication information associated with the user operating the information apparatus for authentication of the user;

software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the output device, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the information related to the output device included in the output device object delivered from the information apparatus to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for decompressing at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for delivering at least part of the decoded and decompressed device dependent output data to the output device for rendering of the selected digital content.

181. (Previously presented) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for establishing a ~~wireless~~ **wired** communication channel between the information apparatus and the output device.

182. (Previously presented) The computer memory or storage device of claim

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180 in which the output device is wire connected to the information apparatus.

183. (Currently amended) The computer memory or storage device of claim 180 in which the information apparatus **is a laptop computer, a desktop computer, or a networked computer, individually or in any combination** ~~a wireless information apparatus and includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination~~.

184. (Previously presented) The computer memory or storage device of claim 180 in which the output device is a display screen and the device dependent output data includes video data, and wherein a connection between the information apparatus and the output device includes a wired connection.

185. (Currently amended) The computer memory or storage device of claim 180 in which ~~the information apparatus includes a touch sensitive screen, and~~ the device dependent output data includes one or more of image data, graphics data, video data, **audio data,** and text data, individually or in any combination~~, for rendering over the touch sensitive screen~~.

186. (Previously presented) The computer memory or storage device of claim 180 in which the output device is part of a television system, and the information apparatus delivers at least part of the device dependent output data to the television system for rendering at the television.

187. (Previously presented) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

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188. (Currently amended) The apparatus of claim 148 in which the information apparatus further transmits at least part of digital content to a television for rendering, the television is ~~either (1)~~ wire connected to the information apparatus ~~or (2) wirelessly connected to the information apparatus~~.

189. (Currently amended) The memory or storage device of claim 177 in which the one or more output devices includes a television and the information apparatus is either wire connected to the television ~~or wirelessly connected to the television~~.

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the information apparatus at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Previously presented) The memory or storage device of claim 177 in which the one or more output device objects include identification, the identification including one or more of an output device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Previously presented) The system of claim 172 in which the one or more content objects further includes at least part of the digital content for storing at the one or more content servers.

193. (Previously presented) The system of claim 172 in which the information apparatus and the at least one of a display device and an audio output device included in the output system are wire connected.

194. (Previously presented) The system of claim 167 further enables operations for delivering at least part of device dependent output data from the information

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apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Currently amended) The system of claim 167 in which the information apparatus is connected to the output device over a ~~wireless~~ **network connection or a wired** connection.

196. (Previously presented) The system of claim 167 in which the output system is a television system.

197. (Previously presented) The system of claim 167 in which the communication channel over the network between the output system and the one or more servers includes one or more of a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Currently amended) The system of claim 167 in which the information apparatus is a **laptop computer, a desktop computer, or a networked computer**, **individually or in any combination** ~~wireless information apparatus, and the wireless information apparatus includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination~~.

199. (Currently amended) The method of claim 157 in which the information apparatus includes a ~~wireless~~ **network** communication unit and the connection between the information apparatus and the one or more servers over a network that includes the Internet includes a ~~wireless~~ **network** connection over the ~~wireless~~ **network** communication unit.

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U.S. Patent Application Serial No. 09/992,413 filed on November 18, 2001 (FXT312):

"This application claims the benefit of U.S. Provisional Application No. 60/252,682 filed on November 20, 2000."

U.S. Patent Application Serial No. 12/204,689 filed on September 4, 2008 (FXT311):

"This application claims the benefit of provisional application no. 60/252,682, filed November 20, 2000, and is a divisional of application no[.] 09/992,413, filed November 18, 2001."

U.S. Patent Application Serial No. 12/204,695 filed on September 4, 2008 (FXT314):

"This application claims the benefit of provisional application no. 60/252,682, filed November 20, 2000, and is a divisional of application no[.] 09/992,413, filed November 18, 2001."

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09/992,413 (FXT312)	12/204,689 (FXT311)	12/204,695 (FXT314)
Claim 131	Claim 66	Claim 66
"[D]evice dependent output data being device specific and being acceptable for rendering at the output device" "[R]eceiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device" "[A]pplying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device"	"[O]utput data related to the selected digital content that includes audio data" "[P]rocessing, at the mobile information apparatus, at least part of the output data for rendering at the audio output device"	"[G]enerating, at the mobile information apparatus, at least part of output data from at least part of the digital data content received from the server over the Internet for transmission to the output device" "[T]he at least part of output data from the mobile information apparatus to the output device for outputting or displaying at least part of the digital data content that includes video data at the output device"

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09/992,413 (FXT312)	12/204,689 (FXT311)	12/204,695 (FXT314)
Claim 131	Claim 66	Claim 66
"[A]n information apparatus"	"[T]he mobile information apparatus being at least an information Pad" "[T]he mobile information apparatus including, a touch sensitive screen interface for interacting with a user of the mobile information apparatus; a graphical user interface over the touch sensitive screen of the mobile information apparatus; a digital camera for taking pictures; one or more wireless communication units having a radio frequency controller and an antenna for wireless communication, at least one wireless communication unit of the one or more wireless communications units is compatible with at least one protocol within the IEEE 802.11 standard of wireless protocols"	"[T]he mobile information apparatus being at least a smart phone and including, a touch sensitive screen; a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; a digital camera for taking pictures; one or more wireless communication units configured for transmitting packet data over a subscribed wireless; at least one wireless communication unit that is compatible with at least one protocol within the IEEE 802.11 standard of wireless protocols for wireless communication with an output device that is a distinct device from the information apparatus"

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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 10/15/2014

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EXAMINER	
BENOIT, ESTHER	
ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 10/15/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

TITLE OF INVENTION: SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	01/15/2015

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: SERVERS OVER THE INTERNET FOR TRANSMITTING OR STREAMING PROTECTED DIGITAL CONTENT ON DEMAND TO INFORMATION PADS, SMART PHONES, SMART TELEVISIONS, OR OUTPUT CONTROLLERS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	01/15/2015

EXAMINER	ART UNIT	CLASS-SUBCLASS
BENOIT, ESTHER	2453	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
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3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

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- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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Typed or printed name Registration No.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 10/15/2014

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EXAMINER	
BENOIT, ESTHER	

ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 10/15/2014

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER BENOIT	Art Unit 2453	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *9/19/2014*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/19/2014 and 9/29/2014
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther Benoit/
Primary Examiner, Art Unit 2453

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5916309		1999-06-29	Brown et al.	
	2	6788332		2004-09-07	Cook	
	3	6895444		2005-05-17	Weisshaar et al.	
	4	5710557		1998-01-20	Schuette	
	5	5724106		1998-03-03	Autry et al.	
	6	5993047		1999-11-30	Novogrod et al.	
	7	6034621		2000-03-07	Kaufman	
	8	6189148		2001-02-13	Clark et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 09/19/2014	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
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	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	9	6285357		2001-09-04	Kushiro et al.	
	10	6678004		2004-01-13	Schultheiss et al.	
	11	6859197		2005-02-22	Klein et al.	
	12	7929950		2011-04-19	Rao et al.	

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	1	20110016280		2011-01-20	Chang et al.	
	2	20110138378		2011-06-09	Chang et al.	
	3	20110167166		2011-07-07	Chang	
	4	20110167175		2011-07-07	Chang	
	5	20120230315		2012-09-13	Chang et al.	

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	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	6	20140018130		2014-01-16	Chang	

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	1	100334577	CN		2007-08-29	Chang et al.		☒

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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Examiner Signature	/Esther Benoit/	Date Considered	10/13/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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OR

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-09-19
Name/Print	Peter D. Sabido	Registration Number	50353

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Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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	Attorney Docket Number	FXT312	

	1	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 13/477,987, September 26, 2014, 42 pages.	☐

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Examiner Signature	/Esther Benoit/	Date Considered	10/13/2014

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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-09-29
Name/Print	Peter D. Sabido	Registration Number	50353

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	121	((select$4 or choos$4) near (pointer or reference)) near (user or client) (list or table)	US-PGPUB; USPAT	WITH	ON	2014/10/13 09:16
L2	121	((select$4 or choos$4) near (pointer or reference)) near (user or client) (list or table)	US-PGPUB; USPAT	WITH	ON	2014/10/13 09:16
L3	1664	((select$4 or choos$4) near (pointer or reference)) near (user or client)	US-PGPUB; USPAT	WITH	ON	2014/10/13 09:32
L4	6240	("713".clas. or "726".clas. or "380".clas.) and (printer) and ((pointer or reference) (user or client))	US-PGPUB; USPAT	WITH	ON	2014/10/13 09:34
L5	29	((select$4 or choos$4) near (pointer or reference)) near (user or client) near2 (list or table)	US-PGPUB; USPAT	WITH	ON	2014/10/13 09:35
L6	6240	("713".clas. or "726".clas. or "380".clas.) and (printer) and ((pointer or reference) (user or client))	US-PGPUB; USPAT	WITH	ON	2014/10/13 09:42

10/13/2014 9:47:50 AM
C:\Users\ebenoit\Documents\EAST\Workspaces\09992413.wsp

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	Benoit, Esther	2453

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB
	Update Search	10/13/2014	EB

SEARCH NOTES		
Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB

SEARCH NOTES		
Search Notes	Date	Examiner
Update Search	6/5/2014	EB
Update Search	10/13/2014	EB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB
	See Interference Search History	10/13/2014	EB

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER BENOIT	2453

CPC					
Symbol				Type	Version
G06F		3	126	F	2013-01-01
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G06F		3	1247	I	2013-01-01
G06F		3	1288	I	2013-01-01
G06F		3	1292	I	2013-01-01
G06Q		20	102	I	2013-01-01
G06Q		40	00	I	2013-01-01
H04L		12	2805	I	2013-01-01
H04L		12	2812	I	2013-01-01
H04L		67	2823	I	2013-01-01
H04L		67	303	I	2013-01-01
H04L		67	2828	I	2013-01-01
H04L		67	28	I	2013-01-01
H04L		12	2809	A	2013-01-01
H04L		12	2834	A	2013-01-01
H04L		12	2838	A	2013-01-01
H04L		2012	2849	A	2013-01-01
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H04L		67	16	A	2013-01-01
H04L		67	04	A	2013-01-01

CPC Combination Sets						
Symbol				Type	Set	Ranking	Version

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER BENOIT/ Examiner.Art Unit 2453	10/13/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20141013

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER BENOIT	2453

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
709	217	G 0 6 F 15 / 16 (2006.01.01)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER BENOIT/ Examiner.Art Unit 2453	10/13/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20141013

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER BENOIT	2453

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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	4		31		58		85		112	9	139	36	166	63	193
	5		32		59		86		113	10	140	37	167	64	194
	6		33		60		87		114	11	141	38	168	65	195
	7		34		61		88		115	12	142	39	169	66	196
	8		35		62		89		116	13	143	40	170	67	197
	9		36		63		90		117	14	144	41	171	68	198
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	13		40		67		94		121	18	148	45	175		
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	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER BENOIT/ Examiner.Art Unit 2453	10/13/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20141013

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 5528

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/992,413	11/18/2001 RULE	709	2453	FXT312

APPLICANTS

INVENTORS

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

** **CONTINUING DATA** **********

This appln claims benefit of 60/252,682 11/20/2000

** **FOREIGN APPLICATIONS** **********

** IF **REQUIRED, FOREIGN FILING LICENSE GRANTED** ** ** SMALL ENTITY **

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ESTHER BENOIT/ Examiner's Signature	☐ Met after Allowance E.B. Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WA	10	65	7

ADDRESS

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PORTLAND, OR 97204

TITLE

Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers

FILING FEE RECEIVED		
1031	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07)

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER BENOIT	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	10/13/2014
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	10/13/2014
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
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☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER BENOIT	2453

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CLAIM		DATE								
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14	144			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
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☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
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24	154			✓	✓	✓	✓	✓	=	=
25	155			✓	✓	✓	✓	✓	=	=
26	156			✓	✓	✓	✓	✓	=	=
27	157			✓	✓	✓	✓	✓	=	=
28	158			✓	✓	✓	✓	✓	=	=
29	159			✓	✓	✓	✓	✓	=	=
30	160			✓	✓	✓	✓	✓	=	=
31	161			✓	✓	✓	✓	✓	=	=
32	162			✓	✓	✓	✓	✓	=	=
33	163			✓	✓	✓	✓	✓	=	=
34	164			✓	✓	✓	✓	✓	=	=
35	165			✓	✓	✓	✓	✓	=	=
36	166			✓	✓	✓	✓	✓	=	=
37	167			✓	✓	✓	✓	✓	=	=
38	168			✓	✓	✓	✓	✓	=	=
39	169			✓	✓	✓	✓	✓	=	=
40	170			✓	✓	✓	✓	✓	=	=
41	171			✓	✓	✓	✓	✓	=	=
42	172			✓	✓	✓	✓	✓	=	=
43	173			✓	✓	✓	✓	✓	=	=
44	174			✓	✓	✓	✓	✓	=	=
45	175			✓	✓	✓	✓	✓	=	=
46	176			✓	✓	✓	✓	✓	=	=
47	177			✓	✓	✓	✓	✓	=	=
48	178			✓	✓	✓	✓	✓	=	=
49	179			✓	✓	✓	✓	✓	=	=
50	180			✓	✓	✓	✓	✓	=	=

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER BENOIT	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	10/13/2014
51	181			✓	✓	✓	✓	✓	=	=
52	182			✓	✓	✓	✓	✓	=	=
53	183			✓	✓	✓	✓	✓	=	=
54	184			✓	✓	✓	✓	✓	=	=
55	185			✓	✓	✓	✓	✓	=	=
56	186			✓	✓	✓	✓	✓	=	=
57	187			✓	✓	✓	✓	✓	=	=
58	188			✓	✓	✓	✓	✓	=	=
59	189			✓	✓	✓	✓	✓	=	=
60	190			✓	✓	✓	✓	✓	=	=
61	191			✓	✓	✓	✓	✓	=	=
62	192			✓	✓	✓	✓	✓	=	=
63	193			✓	✓	✓	✓	✓	=	=
64	194			✓	✓	✓	✓	✓	=	=
65	195			✓	✓	✓	✓	✓	=	=
66	196			✓	✓	✓	✓	✓	=	=
67	197			✓	✓	✓	✓	✓	=	=
68	198			✓	✓	✓	✓	✓	=	=
69	199			✓	✓	✓	✓	✓	=	=

EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S148	2475	((pointer or reference) near (user)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/10/13 09:43
S149	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/10/13 09:44
S150	19	((device near dependent) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/10/13 09:46
S151	83	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/10/13 09:48
S152	0	((pointer or reference) near (content near object) same (device near dependent)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/10/13 09:48

10/13/2014 10:54:09 AM
C:\Users\ebenoit\Documents\EAST\Workspaces\09992413.wsp

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

	1	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 13/477,987, September 26, 2014, 42 pages.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-09-29
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	20274336
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	29-SEP-2014
Filing Date:	18-NOV-2001
Time Stamp:	16:51:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20140929_IDS_FXT312.pdf	612379	no	4

Warnings:

Information:

A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.

2	Non Patent Literature	NPL1_20140926_NOA.pdf	2551000	no	42

Warnings:

Information:

Total Files Size (in bytes):	3163379

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
(Submitted Only via EFS-Web)

Application Number	09992413	Filing Date	2001-11-18	Docket Number (if applicable)	FXT312	Art Unit	2453
First Named Inventor	William Ho Chang			Examiner Name	Esther Benoit		

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____
(Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

FEES

☒ **The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**
The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 111540

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/30EFS (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Signature of Registered U.S. Patent Practitioner			
Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-09-19
Name	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: September 19, 2014

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or To Controllers Connectable To Televisions (as currently amended)
Examiner	:	Esther Benoit
Art Unit	:	2453
Confirmation No.:		5528

The Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT ACCOMPANYING REQUEST
FOR CONTINUED EXAMINATION (37 C.F.R. § 1.114)

This Amendment and the accompanying Request for Continued Examination pursuant to 37 C.F.R. § 1.114 and the associated fee under 37 C.F.R. § 1.17(e) are submitted. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	Begin on page 2
Amendments to the Claims	Begin on page 4
Amendments to the Drawings	None
Remarks	Begin on page 27

Amendments to the Specification

Please insert the following paragraph before paragraph [0001] in the specification as follows:

CROSS-REFERENCES TO RELATED APPLICATIONS

This application claims benefit of U.S. Provisional Application No. 60/252,682 filed on November 20, 2000. The entire disclosure of the above application is hereby incorporated by reference herein for all purposes.

Please replace the title as follows:

~~[[Servers Over The Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers]]~~

Digital Content Service For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or To Controllers Connectable To Televisions

Please replace the current abstract with the abstract provided on the next page.

ABSTRACT OF THE DISCLOSURE

Digital content services provided over the Internet for transmitting or streaming protected digital content on demand to information apparatus or output devices are herein disclosed and enabled. The protected digital content is device dependent or device specific for rendering at a smart phone, information pad, audio player, media controller, televisions, among others. To illustrate, an information apparatus may include a touch sensitive screen and a client application for accessing selected digital content from a subscribed content service or content store provided over the Internet. To access the selected digital content, the client application may send, to the service, authentication information, payment or subscription information, a reference to selected digital content, and device identification information. The service then generates encrypted device dependent output data associated with the device identification for transmitting or streaming to the information apparatus or to the output device (e.g., televisions or television controllers).

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in bold double brackets **[[ ]]**. The amended claims below are track changed to the claims as shown on pages 3-20 of the Notice of Allowance dated June 19, 2014.

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing digital content over a network that includes the Internet to an information apparatus for rendering at an output device, ~~which is~~ **the output device being** associated with the information apparatus~~, the output device includes~~ **and including** at least one of a display device or an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus, device dependent output data corresponding to the digital content, the device dependent output data being device specific and being acceptable for rendering at the output device, the one or more servers being distinct and separate from the information apparatus and the output device, and

one or more server applications at the one or more servers for generating the device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, at least part of one or more pointers or references to one or more digital content available at a

content server for selection by a user at the information apparatus;

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including information associated with a pointer or reference to a selected digital content, the pointer or the reference **to a selected digital content** being associated with a selection by the user at the information apparatus from among the at least part of one or more pointers or references provided to the information apparatus by the one or more servers;

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device;

retrieving, by the one or more server applications, the selected digital content from the content server employing, at least in part, the pointer or reference to the selected digital content included in the content object received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on at least part of the selected digital content, and

applying, by the one or more server applications, an encryption scheme on at least part of the selected digital content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to the selected digital content and having a relationship, at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering at least part of the selected digital content at the output device, **the output device being** ~~which is~~ associated with the information apparatus and **being** ~~which is~~ at least one of a display device or an audio output device.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus, one or more pointers or references to the one or more digital content for selection; and

receiving, by the client application, the selected digital content over the graphical user interface from among the one or more pointers or references to the one or more digital content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content.

133. (Previously presented) The method of claim 131 further comprising receiving, from the information apparatus, one or more job objects having one or more attributes corresponding to an output job, including one or more of an output quality, instructions, a preference, and a pointer or reference to another job object, individually or in any combination.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the device dependent output data.

135. (Previously presented) The method of claim 131 in which the output device which is associated with the information apparatus is wired connected to the information apparatus.

136. (Previously presented) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

delivering, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers to the output device for rendering of at least part of the selected digital content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes at least one of a palmtop computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information is provided automatically by the information apparatus.

139. (Previously presented) The method of claim 131 in which the payment information is provided through the information apparatus as entered by a user in response to a prompt to enter payment information.

140. (Currently amended) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system **and the method further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information**.

141. (Currently amended) The method of claim 140 **in which the output device includes a display screen associated with the information apparatus** ~~further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information~~.

142. (Previously presented) The method of claim 131 in which the output device, which is associated with the information apparatus, includes at least one of a television, an audio output device, or a music output device, individually or in any combination.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an

Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the output device is at least one of the following, individually or in any combination:

(1) an audio output device and wherein the device dependent output data includes audio data;

(2) a display device or a projection device and wherein the device dependent output data includes video data; or

(3) a television and wherein the device dependent output data includes audio data and video data.

145. (Previously presented) The method of claim 131 in which the output device object includes information corresponding to device identification information, model information, brand information, registration information, IP address information, individually or in any combination.

146. (Previously presented) The method of claim 131 in which the output device or the information apparatus decodes and decompresses at least part of the device dependent output data for rendering at least part of the selected digital content.

147. (Previously presented) The method of claim 131 in which generating at least part of the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining **device dependent output data corresponding to** digital content **from one or more servers over a network** ~~acceptable for rendering at an output device, the output device being at least one of a display device and an audio output device~~, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

installing at least part of the client application for expanding functionalities of the information apparatus;

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus ~~and the output device~~, and in dependence of successful authentication of the user, enabling the user access to a digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the client application and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, information associated with a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least part of a content object and at least part of an output device object to the one or more servers over a network, the content object being associated with the selected digital content and including a pointer or reference to the selected digital content, and the output device object including ~~information~~ **at least an attribute** related to **[[**the**]]** **an** output device;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, at least part of the device dependent output data received from the one or more servers related, at least in part, to the information included in the output device object **and in the content object** delivered from the information apparatus, and the device dependent output data received from the one or more servers further including an encryption scheme for ensuring security of the device dependent output data that is device specific for rendering ~~at the output device~~; and

decoding, at the information apparatus, the device dependent output data received from the one or more servers for rendering of **the device dependent output data** ~~at least part of the selected digital content~~.

149. (Currently amended) The apparatus of claim 148 wherein the information apparatus is further operable for **rendering at least part of the device dependent output data** ~~receiving, at the information apparatus, one or more attributes corresponding to the output device from the output device~~.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Currently amended) The apparatus of claim 148 **further comprising transmitting at least part of the device dependent output data to an output device for rendering,** ~~in which~~ the output device **including** ~~further includes~~ one or more of a display device, a projection device, a television device, **[[**and**]]** an audio output device, **and an output controller connected to a television,** individually or in any combination.

152. (Currently amended) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device as one of one or more output devices that are discovered by the information apparatus as being available for

rendering **at least part of** the selected digital content.

153. (Currently amended) The apparatus of claim 148 **in which the information apparatus** further **includes** ~~including~~ one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units **included** at the information apparatus.

154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, a selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part, on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 148 in which the information apparatus is a wireless mobile information apparatus and the wireless mobile information apparatus includes one or more of a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Currently amended) A method for **accessing** ~~rendering, at one or more output devices, device dependent output data, the device dependent output data~~

~~corresponding to~~ digital content ~~and accessible, at least partly~~, by an information apparatus over a network that includes the Internet, ~~the one or more output devices being at least one of a display device or an audio output device,~~ the information apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and the one or more servers over a network that includes the Internet;

receiving, at the information apparatus over the network from the one or more servers, one or more pointers or references to digital content that is accessible, at least partly, by the information apparatus;

delivering, from the information apparatus, at least partially a content object and one or more output device objects to one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus ~~and the one or more output devices~~, the content object including information related to a pointer or reference to the digital content, the pointer or the reference **to the digital content** being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers, and the one or more output device objects including information corresponding **to at least one of device identification information, model information, brand information, registration information, and IP address information, individually or in any combination** ~~to the one or more output devices~~;

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content **and having a relationship, at least in part, to the content object delivered from the information apparatus to the one or more servers over the network that includes the Internet**, the device

dependent output data corresponding to the digital content further having a relationship, at least in part, to ~~the information corresponding to the one or more output devices included in~~ the one or more output device objects delivered from the information apparatus to the one or more servers over the network, and the device dependent output data corresponding to the digital content further including an encryption scheme ~~that includes security keys~~ for ensuring security of the digital content ~~that is acceptable to the one or more output devices~~ for rendering **at least part of the device dependent output data**.

158. (Currently amended) The method of claim 157 ~~in which the one or more output devices correspond, at least partly, to a television and the method~~ further **comprising** ~~comprises~~:

establishing a connection between the information apparatus and **a television or via an output controller connected to the television** ~~the one or more output devices~~; and

transmitting, by the information apparatus, at least part of the device dependent output data corresponding to at least part of the digital content over the connection for rendering **of the at least part of the digital content** at the **television** ~~one or more output devices~~.

159. (Previously presented) The method of claim 157 in which the information apparatus is a wireless mobile information apparatus that includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Currently amended) The method of claim 157 further comprising sending payment or subscription information from the information apparatus to the one or more servers over the network as payment for **[[**the**]]** digital content service.

161. (Currently amended) The method of claim 157 in which **the information apparatus includes a display screen for rendering at least part of the digital content** ~~the one or more output devices correspond, at least in part, to an audio output device and the digital content includes audio content~~.

162. (Previously presented) The method of claim 157 in which the content object includes the digital content for storing at the one or more servers.

163. (Currently amended) The method of claim 157 in which the information apparatus ~~and output device~~ is part of a television system ~~with access to~~ **operable for accessing** digital content service over the Internet.

164. (Currently amended) The method of claim 157 in which **the information apparatus is wired connected to a television.** ~~The one or more servers obtain digital content based on a pointer or reference to the digital content included in the content object.~~

165. (Currently amended) The method of claim 157 **in which the information apparatus includes a wireless communication unit and the method further comprising the information apparatus establishing a wireless connection, via the wireless communication unit, with at least one of a display device, a television, a controller wire connected to a television, or an audio output device, individually or in any combination, for transmitting at least part of the digital content over the wireless connection for rendering** ~~in which the one or more output device objects include information corresponding to device identification information, model information, brand information, registration information, IP address information, individually or in any combination~~.

166. (Currently amended) The method of claim 157 further comprising decoding and decompressing at least part of the device dependent output data corresponding to the digital content at the information apparatus **[[or]]** **for rendering** at one or more

output devices.

167. (Currently amended) An output system for rendering digital content, the output system comprising:

an information apparatus for receiving device dependent output data from one or more servers over a network, the device dependent output data corresponding to at least part of the digital content that is device specific and is acceptable for rendering at the output system;

an output device that is at least one of a display device and an audio output device for rendering **at least part of** the device dependent output data;

a display screen;

an operating system;

a client application having a graphical user interface over the display screen for interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system ~~enables operations~~ **is operable** for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, by the client application and via the graphical user interface over the display screen, the one or more pointers or references to the one or more digital content for selection by the user; **[[**and**]]**

receiving, from a user of the output system via the graphical user interface over the display screen, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection; **[[**and**]]**

~~obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content, and an output device object that includes information related to at least part of the output system;~~

delivering, from the output system, at least part of **[[**the**]]** **a** content object ~~and at~~

~~least part of the output device object~~ to the one or more servers **over the network**, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content~~, for enabling the one or more servers configured to retrieve at least part of the selected digital content from the content server~~;

delivering, by the output system, at least part of an output device object to the one or more servers over the network, the one or more servers being distinct and separate devices from the output system, the output device object including information related to at least part of the output system;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing a digital content service provided by the one or more servers;

receiving, at the output system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information related to at least part of the output system included in the output device object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device dependent and is acceptable to the output system for rendering;

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the ~~at least one of a display device or an audio output device included in the~~ output system; and

rendering by the at least one of a display device or an audio output device included in the output system, at least part of the selected digital content that includes, at least in part, video or audio content.

168. (Currently amended) The system of claim 167 in which the output device

object includes a device identification information or an address, and **the system is further operable for** obtaining ~~of the~~ **an** output device object, **the obtaining of the output device object** includes obtaining information from one or more of the following: (1) user input, (2) a communication with an output device, (3) **obtaining information from** one or more output devices, (4) **retrieving** a parameter stored in the output system, and (5) a default parameter or preference associated with the output system, individually or in any combination.

169. (Currently amended) The system of claim 167 wherein the **output system includes at least one of a television system, an output controller connected to a television, a smart phone, an Internet pad, an Internet appliance or a digital camera, individually or in any combination.** ~~output system further enables operations for discovering an output device as one or more output devices that are discovered by the information apparatus as being available for rendering the digital content.~~

170. (Currently amended) The system of claim **[[**167**]]** **169** in which the output device and the information apparatus are wire connected.

171. (Previously presented) The system of claim 167 wherein the output system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at an output device, the conforming including one or more of a decoding operation, a decompression operation, or an encoding operation, individually or in any combination.

172. (Currently amended) A **digital content service** system for transmitting to **an output system** ~~an information apparatus~~ over a network that includes the Internet, at least part of device dependent output data corresponding to digital content acceptable for rendering at **the output system** ~~an output device~~, the output **system including an** ~~device associated with the~~ information apparatus **[[**is**]]** **and** at least one of a display device and an audio output device, the **digital content service** system comprising:

one or more servers that are distinct and separate from the **output system** ~~information apparatus and the output device~~, the one or more servers being operable to receive **from the output system** a content object and at least part of an output device object, the content object including at least a pointer or reference to the digital content, the pointer or the reference being related to a selection by **[[**the**]] a** user from among one or more pointers or references to digital content provided, at least in part, to the ~~information apparatus~~ **output system** by the one or more servers, the output device object having information corresponding to the output **system** ~~device~~, the one or more servers being further operable to receive, from the ~~information apparatus~~ **output system**, security or authentication information associated with **[[**a**]] the** user ~~operating the information apparatus~~ for authentication of the user, and the one or more servers being further operable to receive, from the ~~information apparatus~~ **output system**, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the ~~information apparatus~~ **output system**;

one or more server applications on the one or more servers for generating the device dependent output data, the device dependent output data having a relationship, at least in part, to the information related to the output **system** ~~device~~, and the generating of the device dependent output data includes (1) applying a compression operation on at least part of the digital content, and (2) applying an encryption scheme with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering;

one or more memory or storage units at the one or more servers configured to store at least part of the one or more server applications; and

a client application for interacting with a user at the information apparatus via a graphical user interface over **[[**a**]] the** display **device** ~~screen associated with the information apparatus~~, the client application facilitated at least partly by an operating system operating at the information apparatus; and

wherein, the client application at the information apparatus communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to at least part of the digital

~~content, and the client application delivers at least part of the received device dependent output data to the output device for rendering at least part of the digital content~~.

173. (Currently amended) The system of claim 172 wherein the client application at the information apparatus is further operable for decoding at least part of the device dependent output data received from the one or more servers for rendering at the output ~~device~~ **system** at least part of the digital content.

174. (Currently amended) The system of claim 172 in which **the output system is an audio system or a sound output system, and** the output ~~device~~ **system** includes an audio output device and the device dependent output data includes audio data.

175. (Currently amended) The system of claim 172 in which ~~the output device includes a display device or a projection device and the device dependent output data includes video data, and~~ **the output system is a television system, and** the information apparatus and the **at least one of a display device and an audio output device is** ~~output device being~~ part of a television system.

176. (Currently amended) The system of claim 172 in which the content object received from the ~~information apparatus~~ **output system** includes a pointer or reference to a selected digital content, and the one or more server applications further retrieve the **selected** digital content from a content server for transmitting at least part of the selected digital content to the ~~information apparatus~~ **output system**.

177. (Currently amended) In a computer memory or storage device, containing server applications executable by a processor at a server system for generating device dependent output data acceptable for rendering at one or more output devices, the one or more output devices ~~being display devices and/or audio output devices~~ **including at least one of a display device, an audio output device, a television, or a display**

screen of the information apparatus, the device dependent output data for transmitting, at least partly, to an information apparatus, the server system including one or more servers that are accessible by the information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the one or more output devices, the server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the information apparatus, one or more content objects, the one or more content objects being associated with the digital content, including one or more pointers or references to digital content corresponding to one or more selection by a user at the information apparatus from among one or more pointers or references provided, at least in part, to the information apparatus by the server system;

receive, by the server system from the information apparatus, one or more output device objects, the one or more output device objects having information related to the one or more output devices;

receive, by the server system and from the information apparatus, security or authentication information associated with a user operating the information apparatus for authentication of the user;

receive, by the server system and from the information apparatus, payment or subscription information for accessing a digital content service provided by the server system;

retrieve, by the server system, the digital content from a content server employing, at least in part, the one or more pointers or references to the digital content included in the one or more content objects received from the information apparatus;

generate, by the server system, the device dependent output data associated with the digital content for rendering at the one or more output devices, the device dependent output data associated with the digital content having a relationship, at least in part, to the information related to the one or more output devices included in the one or more output device objects received by the server system;

apply, by the server system, a compression operation on the digital content for

transmitting the device dependent output data associated with the digital content;

apply, by the server system, an encryption scheme on the digital content for ensuring security of the digital content that is device dependent for rendering; and

transmit, by the server system, at least part of the device dependent output data associated with at least part of the digital content to the information apparatus over the network that includes the Internet subsequent to having received the security or authentication information, the payment or subscription information, the one or more content objects, and the one or more output device objects from the information apparatus.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Currently amended) The memory or storage device of claim 177 in which **the information apparatus further renders the device dependent output data at the display screen of the information apparatus.** ~~the device dependent output data includes audio data and/or video data.~~

180. (Currently amended) In a computer memory or storage device, containing client software executable by a processor at an information apparatus for obtaining device dependent output data acceptable for rendering at an output device associated with the information apparatus, the output device **[[**is**]]** **including** at least one of a display device **[[**and**]]** **or** an audio output device, the information apparatus including a graphical user interface over a display screen ~~of the information apparatus~~ for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content for rendering, the computer memory or storage device containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network;

software executable at the information apparatus for providing over the graphical user interface at the display screen ~~of the information apparatus~~, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software executable at the information apparatus for receiving a selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content;

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an output device object to the one or more servers that is distinct and separate from the information apparatus and the output device, the content object being associated with the selected digital content, and the output device object including information related to the output device, the content object and the output device object being required at the one or more servers for generating at least part of device dependent output data corresponding at least partly to the selected digital content and acceptable for rendering at the output device;

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network, security or authentication information associated with the user operating the information apparatus for authentication of the user;

software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the output device, the device dependent output data corresponding, at least in part, to the selected digital content and having a relationship, at least in part, to the information related to the output device included in the output device object delivered from the information apparatus to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for decompressing at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for delivering at least part of the decoded and decompressed device dependent output data to the output device for rendering of the selected digital content.

181. (Currently amended) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for establishing a **wireless** communication channel between the information apparatus and the output device.

182. (Currently amended) The computer memory or storage device of claim 180 **in which the output device is wire connected to the information apparatus** ~~further comprising software executable at the information apparatus for encoding at least part of the decoded device dependent output data into a format or language acceptable for delivering to the output device~~.

183. (Previously presented) The computer memory or storage device of claim 180 in which the information apparatus is a wireless information apparatus and includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

184. (Currently amended) The computer memory or storage device of claim 180 in which the output device is **a display screen** ~~an audio output device~~ and the device dependent output data includes ~~audio~~ **video** data, and wherein a connection between the information apparatus and the output device includes a wired connection.

185. (Previously presented) The computer memory or storage device of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video

data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The computer memory or storage device of claim 180 in which the output device is part of a television **system, and the information apparatus delivers at least part of the device dependent output data to the television system for rendering at the television**.

187. (Previously presented) The computer memory or storage device of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188. (Currently amended) The apparatus of claim 148 in which ~~the output device is associated with~~ the information apparatus **further transmits at least part of digital content to a television for rendering, the television is either (1)** ~~and is~~ wire connected to the information apparatus **or (2) wirelessly connected to the information apparatus**.

189. (Currently amended) The memory or storage device of claim 177 in which the one or more output devices includes a television **and the information apparatus is either wire connected to the television or wirelessly connected to the television**.

190. (Previously presented) The memory or storage device of claim 177 in which the one or more content objects received from the information apparatus at the server system include at least part of the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store at least part of the received digital content at a server.

191. (Currently amended) The memory or storage device of claim 177 in which the one or more output device objects include identification ~~related to the one or more output devices~~, the identification including one or more of an output device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192. (Currently amended) The system of claim 172 in which the one or more content objects further includes at least part of the digital content for storing at the **one or more content servers** ~~content server~~.

193. (Currently amended) The system of claim 172 in which the information apparatus **and the at least one of a display device and an audio output device included in the output system are wire connected** ~~is a mobile wireless information apparatus having a touch sensitive screen, an operating system, and a graphical user interface over the touch sensitive screen~~.

194. (Previously presented) The system of claim 167 further enables operations for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.

195. (Previously presented) The system of claim 167 in which the information apparatus is connected to the output device over a wireless connection.

196. (Previously presented) The system of claim 167 in which the output system is a television system.

197. (Currently amended) The system of claim 167 in which the communication channel over the network between the output system and the one or more servers includes one or more of **[[an]]** a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198. (Previously presented) The system of claim 167 in which the information apparatus is a wireless information apparatus, and the wireless information apparatus includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

199. (Previously presented) The method of claim 157 in which the information apparatus includes a wireless communication unit and the connection between the information apparatus and the one or more servers over a network that includes the Internet includes a wireless connection over the wireless communication unit.

REMARKS

Claims 131-199 are allowed and pending in the application. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form.

1. Notice of Allowance dated June 19, 2014

A Notice of Allowance was mailed on June 19, 2014 in which all pending claims were allowed. Applicant would like to thank the Examiner for the Notice of Allowance.

2. Information Disclosure Statement

In reviewing this application, Applicant discovered that there were additional new references in other co-pending applications since the last filing of an Information Disclosure Statement by the Applicant. Accordingly, Applicant filed this Request for Continued Examination so that a supplemental Information Disclosure Statement listing those references can be filed.

Applicant notes the majority of the references that are cited in the supplemental Information Disclosure Statement have already been filed and examined by the same Examiner in one or more other co-pending applications. Accordingly, Applicant believes that the burden to examine the newly submitted references should be minimal.

3. Title of Application

The title of this application has been amended for clarity and consistency.

4. Abstract of Application

The abstract of the application has been amended for clarity and consistency.

5. Claims of Application

In reviewing the claims, applicant found minor issues related to typographical errors, clarity, and consistency. Therefore, the claims of the application have been amended to improve grammar, clarity, and consistency.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on September 19, 2014.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5916309		1999-06-29	Brown et al.	
	2	6788332		2004-09-07	Cook	
	3	6895444		2005-05-17	Weisshaar et al.	
	4	5710557		1998-01-20	Schuette	
	5	5724106		1998-03-03	Autry et al.	
	6	5993047		1999-11-30	Novogrod et al.	
	7	6034621		2000-03-07	Kaufman	
	8	6189148		2001-02-13	Clark et al.	

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	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

	9	6285357		2001-09-04	Kushiro et al.	
	10	6678004		2004-01-13	Schultheiss et al.	
	11	6859197		2005-02-22	Klein et al.	
	12	7929950		2011-04-19	Rao et al.	

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	1	20110016280		2011-01-20	Chang et al.	
	2	20110138378		2011-06-09	Chang et al.	
	3	20110167166		2011-07-07	Chang	
	4	20110167175		2011-07-07	Chang	
	5	20120230315		2012-09-13	Chang et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

	6	20140018130		2014-01-16	Chang		

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	1	100334577	CN		2007-08-29	Chang et al.		☒

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-09-19
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Lexmark v. Flexiworld

Espacenet

Bibliographic data: CN1488106 (A) — 2004-04-07

System and method for device-to-device pervasive digital output

Inventor(s): CHANG WILLIAM HO [US]; LIU CHRISTINA YING [US] ± (WILLIAM. HO. CHANG, ; CHRISTINA. YING. LIU, ; WILLIAM. HO. CHANG,CHRISTINA. YING. LIU)

Applicant(s): FLEXIWORLD TECHNOLOGIES INC [US] ± (FLEXIWORLD TECHNOLOGIES, INC)

Classification: - **international:** ***G06F3/12; H04L12/28;*** (IPC1-7): G06F15/16
- **cooperative:** **G06F15/16**; **G06F3/048**; **G06F3/1206**; **G06F3/1226**; **G06F3/1247**; **G06F3/126**; **G06F3/1285**; **G06F3/1292**; **H04L12/2805**; **H04M1/2478**; **H04W4/12**; **H04W88/02**; H04L12/2809; H04L12/2838; H04L2012/2841; H04L2012/2849; H04L2012/285; H04W76/02

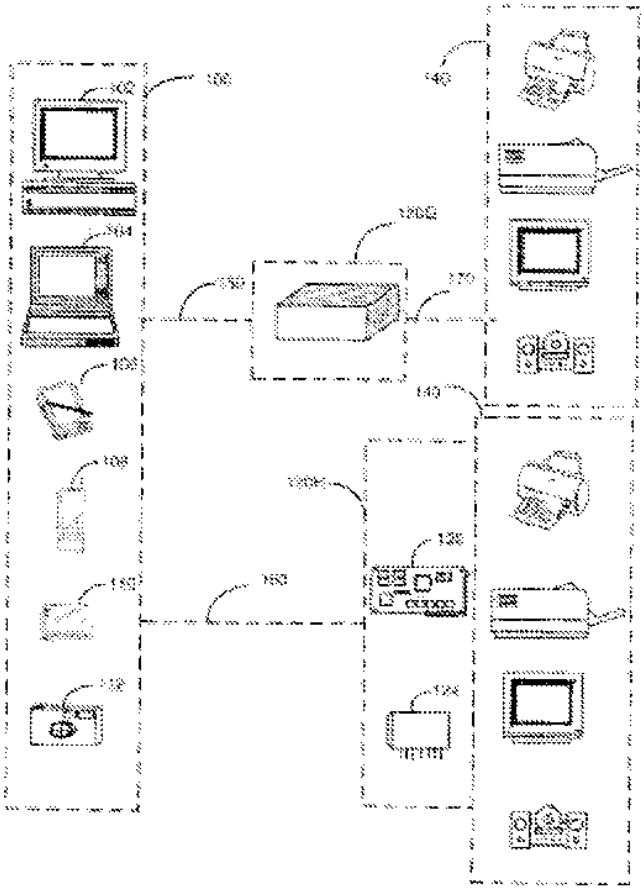
Application number: CN2001821101 20011031

Priority number(s): US20000245101P 20001101

Also published as: CN100334577 (C) US2002051200 (A1) US2013222618 (A1) US2013103775 (A1) US2013104052 (A1) more

Abstract not available for CN1488106 (A)
Abstract of corresponding document: US2002051200 (A1)

An electronic system and method of pervasive output allow an information apparatus to output digital content conveniently to virtually any output device. An output controller is installed in or connected to an output device, such as a printer, to enable the output device to communicate and negotiate services with an information apparatus such as mobile computing device. The information apparatus may communicate with the output controller to obtain device dependent data or software components such as device specific printer driver.



[19] 中华人民共和国国家知识产权局

[51] Int. Cl.
G06F 15/16 (2006.01)

[12] 发明专利说明书

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[30] 优先权

[32] 2000.11.1 [33] US [31] 60/245,101

[86] 国际申请 PCT/US2001/046247 2001.10.31

[87] 国际公布 WO2002/046867 英 2002.6.13

[85] 进入国家阶段日期 2003.6.20

[73] 专利权人 福来西奥德技术公司

地址 美国华盛顿

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[56] 参考文献

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审查员 刘 翔

[74] 专利代理机构 中原信达知识产权代理有限责任公司

代理人 陆 弋 钟 强

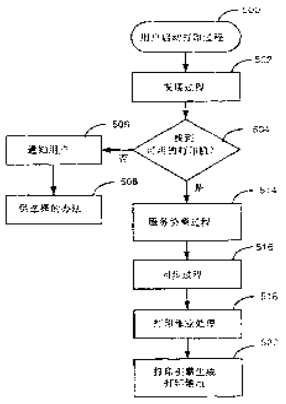
权利要求书 16 页 说明书 42 页 附图 13 页

[54] 发明名称

用于设备到设备的普适数字输出的控制器及管理器

[57] 摘要

一种普适输出的电子系统及方法，使得信息装置可以方便地向基本上任何输出设备输出数字内容。该信息装置包括输出管理器，该输出管理器可以以应用软件、客户应用程序、或设备驱动程序实现。输出管理器能够与输出设备或同输出设备相关的输出控制器一起与数据或软件组件通信、管理并同步数据(516)或软件组件。输出控制器安装在输出设备如打印机之中或与输出设备相连，以使输出设备可以与信息装置如移动计算设备通信并协商服务(514)。信息装置可以与输出控制器通信，以得到设备相关的数据或软件组件，如由设备确定的打印机驱动程序。



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1. 一种数据输出控制器，其控制信息装置与选中的输出设备之间的交互，选中的输出设备呈现从信息装置存取的数据内容，该控制器包括：

用于管理信息装置与选中的输出设备之间的通信信道的装置；

用于通过通信信道向信息装置提供与选中的输出设备相关的至少一个属性以及一个或多个设备相关的软件组件以使数据内容能够由选中的输出设备呈现的装置；和

用于通过通信信道接收至少部分地符合至少一个属性的数据内容的装置；和

用于向选中的输出设备提供要呈现的至少部分符合的数据内容的装置。

2. 如权利要求 1 的控制器，其中至少一个属性是响应于被确定为信息装置上不可用的至少一个属性而通过通信信道提供的。

3. 如权利要求 1 的控制器，进一步包含用于通过通信信道提供使得数据内容能够在选中的输出设备上呈现的一个或多个输出设备驱动程序组件的装置。

4. 如权利要求 3 的控制器，其中一个或多个输出设备驱动程序组件是响应于被确定为信息装置上不可用的一个或多个设备驱动程序组件而通过通信信道提供的。

5. 如权利要求 1 的控制器，其中一个或多个组件包括软件代码。

6. 如权利要求 1 的控制器，其中一个或多个组件包括软件应用程序。

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7. 如权利要求 1 的控制器，其中一个或多个组件的每个是从包括设备驱动程序、打印机驱动程序、输出驱动程序、或用户接口的组中单独选出的一个或多个。

8. 如权利要求 1 的控制器，其中与选中的输出设备相关的属性的每个是从包括设备标识、设备批次、设备型号、设备类型、设备输入数据格式、设备输入语言、设备特征集、设备规格、设备服务质量、设备服务类型、设备服务可用性、和设备服务费用、设备验证、设备安全、设备分辨率、设备位深度、设备色空间、设备色彩数、设备色彩表、和设备半色调表的组中单独选出的一个或多个。

9. 如权利要求 1 的控制器，进一步包括用于搜索信息装置并一旦在搜索中发现就与其建立通信信道的装置。

10. 如权利要求 8 的控制器，进一步包括用于将选中的输出设备的可用性以及与选中的输出设备相关的至少一个属性一起广播的装置。

11. 如权利要求 1 的控制器，进一步包括用于被动地等待信息装置的发现并一旦有发现就建立与信息装置的通信信道的装置。

12. 如权利要求 1 的控制器，进一步包括用于提供信息装置或其操作者的验证的装置。

13. 如权利要求 1 的控制器，进一步包括用于计算输出设备呈现数据内容所需的支付的装置。

14. 如权利要求 1 的控制器，进一步包括用于处理输出设备呈现数据内容所需的支付的装置。

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15. 如权利要求 1 的控制器，具有用于安装在输出设备中的结构。

16. 如权利要求 1 的控制器，具有外部连接至一个或多个输出设备的结构。

17. 如权利要求 1 的控制器，其中通信信道是无线通信信道。

18. 如权利要求 17 的控制器，其中无线通信是无线电通信。

19. 如权利要求 17 的控制器，其中无线通信是红外通信。

20. 如权利要求 1 的控制器，其中选中的输出设备是打印机。

21. 如权利要求 1 的控制器，进一步包括用于将至少部分符合的数据内容处理并转换为与选中的输出设备兼容的输出数据的装置。

22. 如权利要求 1 的控制器，进一步包括用于将至少部分符合的数据内容转换为与输出设备、打印机、打印机引擎、输出引擎、显示器引擎、或打印机控制器之一兼容的输出数据的装置。

23. 如权利要求 1 的控制器，进一步包括用于执行至少一个光栅图像处理操作的装置。

24. 如权利要求 1 的控制器，其中数据内容相应于输出作业，该控制器进一步包含用于排队并存储要提供给输出设备的一个或多个输出作业的装置。

25. 如权利要求 1 的控制器，进一步包括用于存储与一个或多个输出设备相关的一个或多个组件的装置。

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26. 如权利要求 1 的控制器，进一步包括用于从信息装置得到验证信息以验证允许信息装置访问选中的输出设备的装置。

27. 一种控制数据输出控制器的方法，其控制信息装置与选中的输出设备之间的交互，选中的输出设备呈现从信息装置存取的数据内容，该方法包括：

管理信息装置与选中的输出设备之间的通信信道；

通过通信信道提供与选中的输出设备相关的至少一个属性以及一个或多个设备相关的软件组件，以使数据内容能够由选中的输出设备呈现；以及

通过通信信道接收至少部分地符合至少一个属性的数据内容；以及

向选中的输出设备提供要呈现的至少部分符合的数据内容。

28. 如权利要求 27 的方法，其中至少一个属性是响应于被确定为信息装置上不可用的至少一个属性而通过通信信道提供的。

29. 如权利要求 27 的方法，进一步包含通过通信信道提供使得数据内容能够在选中的输出设备上呈现的一个或多个输出设备驱动程序组件。

30. 如权利要求 29 的方法，其中一个或多个输出设备驱动程序组件是响应于被确定为信息装置上不可用的一个或多个设备驱动程序组件而通过通信信道提供的。

31. 如权利要求 27 的方法，其中一个或多个组件包括软件代码。

32. 如权利要求 27 的方法，其中一个或多个组件包括软件应用程序。

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33. 如权利要求 27 的方法，其中一个或多个组件的每个是从包括设备驱动程序、打印机驱动程序、输出驱动程序、或用户接口的组中单独选出的一个或多个。

34. 如权利要求 1 的方法，其中与选中的输出设备相关的属性的每个是从包括设备标识、设备批次、设备型号、设备类型、设备输入数据格式、设备输入语言、设备特征集、设备规格、设备服务质量、设备服务类型、设备服务可用性、和设备服务费用、设备验证、设备安全、设备分辨率、设备位深度、设备色空间、设备色彩数、设备色彩表、和设备半色调表的组中选出单独的一个或多个。

35. 如权利要求 27 的方法，进一步包括搜索信息装置并一旦在搜索中发现就与其建立通信信道。

36. 如权利要求 35 的方法，进一步包括将控制器的可用性以及与选中的输出设备相关的至少一个属性一起广播。

37. 如权利要求 27 的方法，进一步包括被动地等待信息装置的发现并一旦有发现就建立与信息装置的通信信道。

38. 如权利要求 27 的方法，进一步包括提供信息装置或其操作者的验证。

39. 如权利要求 27 的方法，进一步包括计算输出设备呈现数据内容所需的支付。

40. 如权利要求 27 的方法，进一步包括处理输出设备呈现数据内容所需的支付。

41. 如权利要求 27 的方法，其中通信信道是无线通信信道。

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42. 如权利要求 41 的方法，其中无线通信是无线电通信。

43. 如权利要求 41 的方法，其中无线通信是红外通信。

44. 如权利要求 27 的方法，其中选中的输出设备涉及打印设备、显示设备、投影设备和音频输出设备之一。

45. 如权利要求 27 的方法，进一步包括将至少部分符合的数据内容处理并转换为与选中的输出设备兼容的输出数据。

46. 如权利要求 27 的方法，进一步包括将至少部分符合的数据内容转换为与输出设备、打印机、打印机引擎、输出引擎、显示器引擎、或打印机控制器之一兼容的输出数据。

47. 如权利要求 27 的方法，进一步包括执行至少一个光栅图像处理操作。

48. 如权利要求 27 的方法，其中数据内容相应于输出作业，该方法进一步包含排队并存储要提供给输出设备的一个或多个输出作业。

49. 如权利要求 27 的方法，进一步包括存储与一个或多个输出设备相关的一个或多个组件。

50. 如权利要求 27 的方法，进一步包括从信息装置得到验证信息以验证允许信息装置访问选中的输出设备。

51. 一种数据输出控制器，其控制信息装置与选中的输出设备之间的交互，选中的输出设备呈现从信息装置存取的数据内容，该控制器包括：

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用于管理信息装置与选中的输出设备之间的无线通信信道的装置；

用于通过通信信道向信息装置提供与选中的输出设备相关的至少一个组件以使数据内容能够由选中的输出设备呈现的装置；和

用于通过通信信道接收至少部分地符合至少一个组件的数据内容的装置；和

用于向选中的输出设备提供要呈现的至少部分符合的数据内容的装置。

52. 如权利要求 51 的控制器，其中至少一个组件是响应于被确定为信息装置上不可用的至少一个组件而通过通信信道提供的。

53. 如权利要求 51 的控制器，其中至少一个组件包括软件代码。

54. 如权利要求 51 的控制器，其中至少一个组件包括软件应用程序。

55. 如权利要求 51 的控制器，其中至少一个组件的每个是从包括设备驱动程序、打印机驱动程序、输出驱动程序、或用户接口的组中单独选出的一个或多个。

56. 如权利要求 51 的控制器，其中至少一个组件的每个是从包括设备标识、设备批次、设备型号、设备类型、设备输入数据格式、设备输入语言、设备特征集、设备规格、设备服务质量、设备服务类型、设备服务可用性、和设备服务费用、设备验证、设备安全、设备分辨率、设备位深度、设备色空间、设备色彩数、设备色彩表、和设备半色调表的组中单独选出的一个或多个。

57. 如权利要求 51 的控制器，进一步包括用于搜索信息装置并一旦在搜索中发现便建立信道的装置。

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58. 如权利要求 57 的控制器，进一步包括用于将选中的输出设备的可用性以及与选中的输出设备相关的至少一个组件一起广播的装置。

59. 如权利要求 51 的控制器，进一步包括用于被动地等待信息装置的发现并一旦有发现就建立与信息装置的通信信道的装置。

60. 如权利要求 51 的控制器，进一步包括用于提供信息装置或其操作者的验证的装置。

61. 如权利要求 51 的控制器，进一步包括用于计算输出设备呈现数据内容所需的支付的装置。

61. 如权利要求 51 的控制器，进一步包括用于处理输出设备呈现数据内容所需的支付的装置。

62. 如权利要求 51 的控制器，具有用于安装在输出设备中的结构。

63. 如权利要求 51 的控制器，具有外部连接至一个或多个输出设备的结构。

64. 如权利要求 51 的控制器，其中无线通信是无线电通信。

65. 如权利要求 51 的控制器，其中选中的输出设备的每个是从包括打印设备、显示设备、投影设备和音频输出设备的组中单独选出的一个。

66. 如权利要求 51 的控制器，进一步包括用于将至少部分符合的数据内容处理并转换为与选中的输出设备兼容的输出数据的装置。

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67. 如权利要求 51 的控制器，进一步包括用于将至少部分符合的数据内容转换为与输出设备、打印机、打印机引擎、输出引擎、显示器引擎、或打印机控制器之一兼容的输出数据的装置。

68. 如权利要求 51 的控制器，进一步包括用于执行至少一个光栅图像处理操作的装置。

69. 如权利要求 51 的控制器，其中数据内容相应于输出作业，该控制器进一步包含用于排队并存储要提供给输出设备的一个或多个输出作业的装置。

70. 如权利要求 51 的控制器，进一步包括用于存储与一个或多个输出设备相关的一个或多个组件的装置。

71. 如权利要求 51 的控制器，进一步包括用于从信息装置得到验证信息以验证允许信息装置访问选中的输出设备的装置。

72. 一种控制数据输出控制器的方法，其控制信息装置与选中的输出设备之间的交互，选中的输出设备呈现从信息装置存取的数据内容，该方法包括：

管理信息装置与选中的输出设备之间的无线通信信道；

通过通信信道向信息装置提供与选中的输出设备相关的至少一个组件以使数据内容能够由选中的输出设备呈现；以及

通过通信信道接收至少部分地符合至少一个组件的数据内容；以及

向选中的输出设备提供要呈现的至少部分符合的数据内容。

73. 如权利要求 72 的方法，其中至少一个组件是响应于被确定为信息装置上不可用的至少一个组件而通过通信信道提供的。

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74. 如权利要求 72 的方法，其中至少一个组件包括软件代码。

75. 如权利要求 72 的方法，其中至少一个组件包括软件应用程序。

76. 如权利要求 72 的方法，其中至少一个组件涉及设备驱动程序、打印机驱动程序、输出驱动程序、或用户接口的一个或多个。

77. 如权利要求 72 的方法，其中至少一个组件涉及设备标识、设备批次、设备型号、设备类型、设备输入数据格式、设备输入语言、设备特征集、设备规格、设备服务质量、设备服务类型、设备服务可用性、和设备服务费用、设备验证、设备安全、设备分辨率、设备位深度、设备色空间、设备色彩数、设备色彩表、和设备半色调表的一个或多个。

78. 如权利要求 72 的方法，进一步包括搜索信息装置并一旦在搜索中发现就与其建立通信信道。

79. 如权利要求 D7 的方法，进一步包括将选中的输出设备的可用性以及与选中的输出设备相关的至少一个组件一起广播。

80. 如权利要求 72 的方法，进一步包括被动地等待信息装置的发现并一旦有发现就建立与信息装置的通信信道。

81. 如权利要求 72 的方法，进一步包括提供信息装置或其操作者的验证。

82. 如权利要求 72 的方法，进一步包括计算输出设备呈现数据内容所需的支付。

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83. 如权利要求 72 的方法，进一步包括处理输出设备呈现数据内容所需的支付。

84. 如权利要求 72 的方法，其中无线通信是无线电通信。

85. 如权利要求 72 的方法，其中选中的输出设备的每个是从包括打印设备、显示设备、投影设备和音频输出设备的组中单独选出的一个。

86. 如权利要求 72 的方法，进一步包括将至少部分符合的数据内容处理并转换为与选中的输出设备兼容的输出数据。

87. 如权利要求 72 的方法，进一步包括将至少部分符合的数据内容转换为与输出设备、打印机、打印机引擎、输出引擎、显示器引擎、或打印机控制器之一兼容的输出数据。

88. 如权利要求 72 的方法，进一步包括执行至少一个光栅图像处理操作。

89. 如权利要求 72 的方法，其中数据内容相应于输出作业，该方法进一步包含排队并存储要提供给输出设备的一个或多个输出作业。

90. 如权利要求 72 的方法，进一步包括存储与一个或多个输出设备相关的一个或多个组件。

91. 如权利要求 72 的方法，进一步包括从信息装置得到验证信息以验证允许信息装置访问选中的输出设备。

92. 在有权访问数据内容的信息装置中，一种用于控制数据输出管理器的方法，该数据输出管理器用于管理向选中的输出设备输出数

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据内容，该方法包括：

管理信息装置与选中的输出设备之间的通信信道；

通过通信信道接收与选中的输出设备相关且使得数据内容能够由选中的输出设备呈现的一个或多个组件；

使数据内容符合输出数据，该输出数据与具有一个或多个组件的选中的输出设备相关；以及

通过通信信道将符合的数据内容引导至选中的输出设备，以将其呈现。

93. 如权利要求 92 的方法，其中通信信道包括无线通信信道。

94. 如权利要求 92 的方法，其中一个或多个组件包括设备相关的组件。

95. 如权利要求 92 的方法，其中一个或多个组件包括软件应用程序。

96. 如权利要求 92 的方法，其中一个或多个组件包括一个或多个设备驱动程序。

97. 如权利要求 96 的方法，其中一个或多个设备驱动程序包括打印机驱动程序。

98. 如权利要求 95 的方法，其中特征化输出设备的设备相关组件是从含有数据、信息、数据标识符、和信息标识符或它们的组合的组中选出的。

99. 如权利要求 98 的方法，其中数据或信息包括设备标识、设备类型、设备批次、设备型号、设备类型、设备输入数据格式、设备输入语言、输出数据类型、设备分辨率、设备位深度、设备色空间标识

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符、设备色彩数、色彩表、和半色调表的一个或多个。

100. 如权利要求 98 的方法，其中数据或信息是从含有至少一个服务属性的组中选出的，至少一个服务属性表明至少一个特征集、设备规格、支付信息、验证信息、安全设置、服务质量信息、作业状态、作业优先级、作业排队或它们的组合。

101. 如权利要求 92 的方法，其中一个或多个组件包括软件代码。

102. 如权利要求 101 的方法，其中软件代码包括压缩及解压缩方法、文件转换、图形表示、图形呈现、图像处理操作、图像增强操作、色空间变换及数据转换、编码及解码技术、色彩匹配及管理方法、图像变换、内插及半色调技术的一个或多个。

103. 如权利要求 94 的方法，其中设备相关的组件是从含有至少一个用户接口控件的组中选出的，至少一个用户接口控件用于控制色彩、打印质量、打印份数、每页卡片数、每张的页数、双面、纵向或横向、安全信息、标识信息、支付信息或它们的组合的至少一个参数及调节。

104. 如权利要求 92 的方法，其中数据内容位于信息装置中。

105. 如权利要求 92 的方法，进一步包括从不同于信息装置的数据源中得到数据内容。

106. 如权利要求 92 的方法，进一步包括从位于信息装置上的数据源应用程序中得到数据内容。

107. 如权利要求 106 的方法，其中数据源应用程序不执行用于控制数据输出管理器的方法。

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108. 如权利要求 106 的方法，其中数据源应用程序执行用于控制数据输出管理器的方法。

109. 如权利要求 106 的方法，其中数据内容是通过包括在信息装置中的操作系统而从数据源应用程序中得到的。

110. 如权利要求 106 的方法，其中数据内容是通过对象模型从数据源应用程序中得到的。

111. 如权利要求 92 的方法，进一步包括发现可用于呈现数据内容的一个或多个输出设备。

112. 如权利要求 111 的方法，其中发现一个或多个输出设备包括根据预定义的选择规则自动选择一个或多个输出设备之一。

113. 如权利要求 111 的方法，其中发现一个或多个输出设备包括将输出服务请求发送至一个或多个输出设备。

114. 如权利要求 111 的方法，其中发现一个或多个输出设备包括一个或多个输出设备满足输出服务需求。

115. 如权利要求 111 的方法，其中信息装置以无线通信发现一个或多个输出设备。

116. 如权利要求 111 的方法，进一步包括得到发现的一个或多个输出设备的每一个的输出设备信息。

117. 如权利要求 116 的方法，进一步包括根据发现的一个或多个输出设备的每一个的输出设备信息而在信息装置上呈现信息，并从用

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户得到对选中的输出设备的选择。

118. 如权利要求 111 的方法，其中发现一个或多个输出设备包括信息装置发送输出服务请求并等待来自一个或多个输出设备的每一个的响应。

119. 如权利要求 111 的方法，其中发现一个或多个输出设备包括一个或多个输出设备公布它们的可用性，以及信息装置联系一个或多个输出设备中的每一个。

120. 如权利要求 111 的方法，其中发现一个或多个输出设备包括信息装置从服务节点得到关于一个或多个输出设备的信息，以及信息装置联系一个或多个输出设备中的每一个。

121. 如权利要求 92 的方法，其中信息装置包括移动计算设备、数字相机、膝上型计算机、台式计算机、和移动电话的至少一个。

122. 如权利要求 92 的方法，其中输出设备至少包括打印设备、显示设备、投影设备、和音频输出设备之一。

123. 如权利要求 92 的方法，其中输出设备至少包括标识引擎和呈现引擎之一。

124. 如权利要求 92 的方法，其中输出设备至少包括打印机引擎和输出引擎之一。

125. 如权利要求 92 的方法，其中无线通信至少包括无线电通信和红外通信之一。

126. 如权利要求 92 的方法，其中输出数据至少包括图像数据、

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图形数据、文本数据、视频数据、音频数据、页面描述语言、置标语言、和指令之一。

127. 如权利要求 126 的方法，其中输出数据进一步至少包括安全数据和验证数据之一。

128. 如权利要求 92 的方法，其中输出数据包括压缩的数据。

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用于设备到设备的普适数字输出的控制器及管理器

技术领域

本发明涉及设备同步和数字输出以及，具体而言，为信息装置提供普适（pervasive）输出。

背景技术

信息装置既指静态计算机也指移动计算设备（普适设备）。信息装置的例子包括但不限于：台式计算机、膝上型计算机、掌上计算机、个人数字助理（PDA）、可上网蜂窝电话、智能电话、传呼机、因特网仪表、电子图书、数字手柄（digital pad）、网络板（web pad）、以及数字捕获设备（如数码相机和摄像机）。输出设备 140 可以包括传真机、打印机、复印机、图像或视频显示设备、投影机、以及音频输出设备。

为简化及方便，下面的说明书中以打印机代指输出设备，以打印代指输出过程。但是应当理解，术语“打印机”和“打印”是用作简化说明书的特定例子，或者可以理解为它们是一个示例。这里使用的“打印”应适用于输出设备的定义或扩展至更大的范围，而不应构成对本发明的范围及实践的限制。

受到不断增长的带宽及处理能力以及不断增长的无线移动设备和用于普适设备的可用软件应用的推动，数以百万计的用户正在或将要使用他们的普适计算设备生成、下载并传输内容及信息。但是，普适设备的小显示屏幕不能提供好的观看体验。所以，需要使用户可以容易地从他们的普适计算设备向任一输出设备输出内容及信息。例如，人们需要从他们的普适信息装置直接便捷地输出，而无需依靠与用于打印的静态计算机（如台式个人计算机）同步。

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为了示例，一位在飞机场在手持电脑中接收到电子邮件的信息工作者需要走到附近的打印机或传真机去打印他的电子邮件。另外，移动工作者也需要从他的移动设备中打印他的工作计划表、预约簿、名片、以及飞行时间表的副本。在另一个例子中，在便利店、加油站、或书报亭停下的旅游者需要将他刚使用他的可上网无线电话（信息装置）从因特网下载的地图的副本打印出来。在另一个例子中，刚使用PDA（信息装置）结束了股票交易或完成了电子商务交易的人需要打印出他的交易确认、发票或收据的副本。在另一个例子中，用数码相机拍照的用户需要将照片方便地在附近的打印机上打印出来。

通常，输出设备（如打印机）通过有线连接如电缆线与信息装置相连。通过使用例如无线电通信或红外通信，也可能得到无线连接。无论连接是有线的还是无线的，用户必须首先在信息装置中安装对应于特定打印机型号及批次的打印机驱动程序。使用由设备相关的或特定的驱动程序，信息装置可以处理将内容或数字文档输出至打印机输入空间。打印机输入空间相应于打印机理解的输入类型（这里指打印数据）。例如，打印机输入空间或打印数据可以包括能够由特定的打印机批次及型号所理解或使用的打印机特定的输入格式（如图像、图形、文件、数据格式）、编码、页面描述语言、置标语言、指令、协议或数据。

打印数据可以是专用的或公开的标准或二者之结合。因此，通常打印机输入空间或打印数据是设备相关的。不同的打印机型号可能确定它们自己的输入，该输入由打印机制造商为了最佳操作根据规范而设计或采用。于是，不同的打印机为了精确打印通常需要使用特定的打印机驱动程序。设备驱动程序（本例中是打印机驱动程序）可以控制、管理、通信、并向打印机输出打印数据。有时不使用打印机或设备驱动程序，而是应用软件可以包括设备驱动特征，作为它的一部分。本例中的应用程序可以处理文档并与输出设备直接通信，而无需使用

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设备驱动程序。打印数据是发送至打印机的输出数据。然而，这里使用的术语“打印数据”是应用于或扩展为对施加于包括显示设备、投影设备及音频设备的任一输出设备的输出数据的更大范围及定义，且不应将其构造为对本发明的范围及实践的限制。

打印机驱动程序或应用程序的安装可以例如使用由打印机制造商提供的 CD 或软盘手动安装而实现。或者用户可能能够从网络下载特定的驱动程序或应用程序。对于家庭或办公用户，这个安装过程可以在任何地方进行，根据驱动程序的类型以及用户对计算设备及网络的熟练程度，该过程可能持续几分钟至几小时不等。即使对于即插即用型驱动程序的安装，用户仍然需要对每一打印机执行多步骤过程。这个安装和配置过程增加了对终端用户的复杂度及工作量，否则终端用户可将时间用于其它多产或可享受的工作。而且，这有可能促使许多不熟练的用户不向他们的家用计算机或网络添加新的外设（如打印机、扫描仪等），以避免安装和配置的不便。因此，需要为用户提供更为方便或简单的将数字内容输出至输出设备的途径，而没有手动寻找并安装新的设备驱动程序或打印机驱动程序的不便。如果需要，则打印机驱动程序的安装应当更加自动化且对终端用户透明。

另外，现有的打印方法可能对移动设备用户造成比家庭及办公室计算机用户高得多的挑战及困难。对于预安装设备相关的驱动程序的需求与移动（普适）计算及输出的概念相矛盾。例如，移动用户可能需要在飞机上或飞机场、加油站、便利店、书报亭、旅馆、会议室、办公室、家中等打印电子邮件、PowerPoint®演示文档、网页、或其它文档。用户在这些地点几乎不可能找到与用户的基站的批次及型号相同的打印机。因此，用户可能不得不每次在这些地点打印之前，安装并配置打印机驱动程序。或者，预安装所有可能的用户信息装置可用的数以百计甚至数以千计的打印机驱动程序通常也不是可行的选择。移动信息装置通常具有有限的内存及存储能力。因此，用户当前需要每次在以上不同位置打印之前，安装并配置打印机驱动程序。而且，

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用户不会希望仅仅为了在飞机场打印一页电子邮件而寻找驱动程序或将其下载并安装。这必然是不想要且不鼓励地促进普适或移动计算的过程。因此，需要更加方便或自动化的打印方案，以使用户只需走向打印机便可容易地打印数字文档，而无需安装或预安装特定的打印机驱动程序。

网络打印可以在局域网（LAN）中部分解决上述问题。最初促成网络打印是为了允许人们共享网络中的打印资源。打印机通常使用网络适配器或网卡与网络相连。打印服务器可以用于管理打印作业（如脱机打印）。不同的客户可以将打印作业发送到打印服务器来排队、排序并管理。每一网络打印机的驱动程序可以存储在网络中（例如，在应用服务器中）并可由客户下载。

上面的结构经常用于局域网（LAN）中，如办公楼中。具有与该网络相连的移动或静止计算设备的办公室员工可以将打印作业发送至与同一网络相连的任一打印机。他或者在他的设备中预安装了所需的打印机驱动程序，或者可以在打印到特定打印机之前从 LAN 中下载驱动程序。但是一旦办公室员工离开办公楼，或者离开他的有线或无线网络覆盖区域，他就再也不能打印到他想要的任一打印机了。

在一个例子中，已经证明了局域网打印的想法可以进一步扩展至更大的公众网络因特网。在理想状况中，每一打印机和每一计算设备（信息装置）都与同一网络例如因特网相连。但是在现实中，将网络打印扩展至大的超级网络或因特网仍是不可行的。

而且，网络打印的一个缺点是较高的成本。为了将输出设备及信息装置与同一网络相连，需要安装附加的硬件和软件。因此，输出设备的成本会显著增加。除了硬件和软件成本，还需要服务费用以保持到如因特网这样的大型网络的连通性。另外，大型永久网络基础设施需要被建设并构造为适用于每一地点。

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除了成本，网络打印的另一缺点是可靠性。网络打印需要在网络的硬件、软件及服务链的任一环节中都完美运行。如果链环的任一组件因为任一原因而运行减缓或不充分，则打印服务可能不可用、中断或导致不精确。

最后，网络打印的另一缺点是安全性的问题。如果机密文档或信息在达到用户面前的打印机之前必须通过整个网络，那么用户将感到不安全。可能会担心机密文档在连接的网络的任一片段中被截取、检查、复制或存储。还有可能担心文档实际上不在希望的打印机上而是在另一打印机上被打印。这个问题可能由例如目录服务软件中的错误、未更新或损坏的软件组件、不一致或不兼容的软件和/或硬件版本、或者人、软件、网络、或硬件错误的任何组合而引起。在从网络向信息装置下载软件组件（如打印机驱动程序）时也有此风险。该软件组件可能被破坏、崩溃或携带恶意攻击或病毒或被黑客篡改。破坏的软件组件可以破坏或崩溃用户的信息装置。最后，一些内部组织或局域网将拒绝试图达到它们的打印机以及其它在防火墙保护下的输出设备的未知文档。因此更希望信息的通信及交换是局部地在用户的信息装置及选择的输出设备之间进行的，都在用户的观察及检查范围之内。

因此，本发明提供了数字打印的便捷方法，用户无需为了打印而在信息装置上预安装设备相关的打印机驱动程序。

该发明可以提供用于打印的简单、优化且方便的过程。与现有的打印不同，用户无需手工从 CD、软盘安装打印机驱动程序，或从存在的静态网络的某处下载该驱动程序。使用本发明的设备及过程，通过在信息装置及具有本发明的输出控制器的打印机之间简单且自动化的同步过程，可以将所有软件组件、数据、或打印机驱动程序加载至信息装置。因此，拥有装备了本发明的输出管理器的信息装置的移动用户事实上可以在任何时间、任何地点，普适地打印至任一打印机。

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进一步，对于信息装置和输出设备，本发明可以提供一种方便的方法，使用户可以信息装置打印到任一与静态永久网络具有或没有连接的打印机。通过信息装置与输出设备之间的本地通信及同步，不必为了静态网络的连通性而安装硬件和软件。因此可以减少打印成本。

另外，本发明可以提供比现有的远程网络打印方法或过程更可靠的打印方法。通过在信息装置及输出设备之间局部通信，打印过程不依赖于网络链环的各元素的完美运行。该链环可以包括例如网络连接、网络服务器、应用服务器、服务提供商及应用提供商。因此，由于处理及通信涉及更少的元素，所以在本发明下成功打印的可能性大大提高。

本发明可以进一步提供比现有的网络打印过程及技术更安全的打印过程。从用户面前的输出设备中上载或下载数据或如打印机驱动程序这样的软件组件提供了比处理来自网络中远程位置的组件更安全的感觉。人们会感到存储在大型网络中的组件更易遭受破坏（如被病毒感染）。网络中因人或软件或硬件错误而引起的错误模块或组件也会破坏信息装置的运行。另外，将机密数字文档或打印的数据直接发送至用户面前的打印机提供了比文档通过具有多个用户及服务器的大型网络而传输更高的安全感。在现有网络打印中，文档被截取、检查、复制、存储或最终在错误打印机上打印的可能性要大得多。

根据本发明，普适输出的电子系统及方法使得信息装置可以将数字内容方便地输出至实际上的任何输出设备。信息装置可以具有中央处理单元、输入/输出控制单元、存储单元、内存单元、以及有线或无线通信单元或适配器。信息装置优选地还包括输出管理器，其可由应用软件、客户应用程序、或设备驱动程序（对于打印机是打印机驱动程序）而实现。输出管理器可以含有对包括例如位于主机信息装置的一个或多个通信芯片集的硬件及软件组件的管理及控制能力。

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信息装置中的输出管理器可以与配置了本发明的输出控制器的输出设备一起通信、管理并同步数据或软件组件。输出设备的例子包括但不限于：打印机、传真机、复印机、图像或视频显示设备、监视器、显示屏幕、投影仪、以及音频输出设备。

输出控制器可以是位于输出设备中的电路板、卡或软件组件。输出控制器也可以与输出设备外部相连，作为外部组件或“盒”。输出控制器可以由嵌入式处理器、软件、固件、ASIC、DSP、FPGA、片载系统、特殊芯片集、等等中的一种或组合而实现。在另一实施例中，输出控制器的功能可以通过与输出设备外部相连的 PC、工作站或服务器上运行的应用软件而提供。

输出控制器可以包括处理单元、内存/存储单元和通信适配器单元等等。输出控制器的存储及内存单元可以存储设备驱动程序、软件组件或对象封装设备相关的数据、算法、及代码。设备相关的数据可以是例如关于输出设备及输出控制器的参数及信息。软件组件及对象可以封装例如代码或可执行算法，该代码或可执行算法是将图像或文档描述符或语言转换或编码为与特定输出设备相兼容的打印数据或输出数据所需要的。输出管理器可以管理将数据和/或软件组件从输出控制器上载到信息装置的过程，从而例如使得信息装置生成打印数据或输出数据，并将其准确地发送至输出设备或输出控制器。

输出数据（或当输出设备是打印机时的打印数据）可以是特定的数据、指令、页面描述语言、置标语言、图形和/或图像文件格式等等。打印数据还可能利用一个或多个编码技术的压缩而编码或压缩。进一步，打印数据可以使用一个或多个公开标准或一个或多个专用技术及格式、或它们的组合。输出数据（或对于打印机的打印数据）指从信息装置发送至输出设备的电子数据。

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本发明的数字内容输出过程的一个实现包括以下步骤。

1. 用户请求打印来自他的/她的信息装置的数字内容。

2. 信息装置通过发现过程检测可用的输出设备。

3. 在服务协商过程中，信息装置和与可用输出设备相关联的输出控制器交换服务信息。然后用户可以根据提供的服务信息，选择一个或多个输出设备。

4. 作为同步过程的一部分，信息装置与输出控制器通信，以确定并上载必需的组件，以使能够输出至特定的输出设备。然后，上载的组件或数据可以在信息装置中安装或配置。

5. 要输出的数字内容由一个或多个组件处理，以与输出设备兼容。该一个或多个组件包括具有输出管理器、输出控制器及输出设备的信息装置。

6. 打印机引擎或显示引擎或音频引擎生成最终输出。

在本发明的输出过程中，位于信息装置中的输出管理器可以参与、协调并管理主机信息装置及输出控制器之间的信息/组件的通信及交换。

附图说明

图 1 是可以实现现有发明的过程及设备的输出系统的框图。

图 2A 和图 2B 是显示无线通信单元的硬件组件的典型结构的框图。

图 3A-3C 显示了关于信息装置的输出管理器的不同结构及实现。

图 4A-4F 显示了关于打印机或输出设备的输出控制器的不同结构及实现。

图 5 是本发明的普适输出过程的流程图。

图 6 是图 5 的输出过程中可包括的服务协商过程的典型实施方式的流程图。

图 7 是图 5 的输出过程中包括的打印作业过程的不同可能结构的

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流程图。

图 8A-8G 显示了信息装置的显示设备上不同时间表现的一系列图形化用户界面（GUIs）。

图 9A-9B 是现有打印系统或打印机的框图。

具体实施方式

图 1 是显示一种电子通信系统的组件的示例框图，该系统可以提供本发明的操作系统，且包含了具有处理能力的计算设备即信息装置 100。如图 1 所示，信息装置 100 的例子可以包括但不限于：台式个人电脑（PC）、膝上型计算机、掌上计算机、手持或移动设备、个人数字助理（PDA）、智能电话、可视电话、机顶盒、电子图书、因特网板（pad）、数码相机、因特网仪表、传呼机等。

信息装置 100 可以包含现有技术的组件（未显示），如：处理单元、内存单元、存储器单元以及输入/输出控制单元。信息装置 100 还可以包含用于与用户交互的接口（未显示）。接口可以由软件或硬件或二者的组合而实现。这种接口的例子包括但不限于鼠标、键盘、触控式或非触控式屏幕、一个或多个按钮、软按键、指示笔、扬声器、麦克风等。

信息装置 100 可以是专用的单任务设备（如电子邮件终端、web 终端、电子图书等）或具有多重特征及功能的通用计算设备。这些多重的特征及功能可以由一个或多个安装在信息装置 100 中的软件应用程序（如图 3 中的应用程序 302）实现，该信息装置 100 可以拥有或不拥有操作系统。信息装置 100 的另一个例子是具备本发明的处理能力及特征集的数码相机 112。

一些信息装置 100（如专用设备）可以被制造商预先配置了固定的功能及特征。其它信息装置 100 可以允许用户安装附加的硬件元件和应用软件（如图 3 中的应用程序 302），以扩展或改变其功能。信息

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装置 100 的功能及应用程序的例子可以包括例如：电子邮件、消息、语音通信、web 浏览、图像获取、文本处理、图形应用程序、文档或图像编辑、以及输出功能等。

信息装置 100 的功能及特征集可以以软件或硬件或二者的组合而实现。当特征以软件实现时，这个软件可以由制造商或用户安装。可以使用在嵌入式处理器上运行的嵌入式软件实现应用软件，也可在特定的操作系统上运行应用软件。应用程序及特征集的某些或全部或组合也可以以硬件或在硅片上实现。一些功能或特征集可以在特殊的芯片集中实现，且可以包含一个或多个以下部分或它们的组合：例如特定用途集成电路（ASIC）、现场可编程门阵列（FPGA）、数字信号处理器（DSP）、片载系统、固件等。

信息装置 100 可能包含或不包含操作系统。在具有操作系统的实施方式中，操作系统可能为软件应用程序提供多种应用编程接口（API）或对象模型（如图 3 中的 API 300），以使软件应用程序与设备驱动程序接口并通信。信息装置 100 中的设备驱动程序控制外设并与其通信，外设如打印机、复印机、传真机、显示器、屏幕等。正如下面参考图 3A 描述的，几个不同的应用程序可以通过使用由操作系统提供的 API 或接口或对象模型，共享公用的设备驱动程序。正如下面参考图 3B 和 3C 描述的，在不具有操作系统或操作系统不支持或提供设备驱动程序 API 的实施方式中，各应用程序不得不实现自己的设备驱动程序或自己的输出及通信能力。例如，要向打印机输出数字文档，则各应用程序不得不实现自己的打印机特定驱动、处理和/或通信能力。

在一个实现中，信息装置 100 包括通常以软件实现的输出管理器 308（图 3A-3C）。该输出管理器 308 可以实现为或包含于客户应用程序中、或作为独立的应用程序、或作为另一应用软件 302B（图 3B）的一部分、或实现为设备驱动程序（例如在打印机作为输出设备的情

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况，是打印机驱动程序）的形式，它可以可以被一个或多个应用软件程序 302 调用、共享或使用（图 3A-3C）。

输出管理器 308 的一个任务是管理并协调信息装置 100 与一个或多个输出控制器 120 之间的通信。输出管理器 308 可以例如实现公开标准的或专用的通信协议，以直接或间接作用、管理、或使用由位于主机信息装置 100 中的硬件元件提供的功能。这种硬件元件可以包括例如处理单元、内存单元和通信芯片集（未显示）。输出管理器 308 可以包括一个和多个下列特征及功能：

• 输出管理器 308 可以与包含于主机信息装置 100 中的一个或多个软件应用程序 302 通信或交互，以向这些软件应用程序 302 提供普适输出能力或特征。从软件应用程序 302 传递至输出管理器 308 的信息的类型可以是例如需要输出的数字文档或数字内容数据。在一些例子中，应用软件 302 可以把输出管理器 308 作为独立的应用程序（如图 3C 所示）或应用程序整体的部分（如图 3B 所示）而调用或启动。输出管理器 308 和应用软件 302 之间可能的通信及管理的例子可以包括消息、对象模型、实例、进程调用、程序唤起及 API 等，它们可能或可能不是由操作系统提供的。

• 输出管理器 308 可以管理并保持与输出控制器 120 的有线或无线通信。输出管理器 308 可以与由它的主机信息装置 100 的硬件元件实现的功能相互作用。例如，输出管理器 308 可以管理信息装置 100 中的通信单元并与其交互。正如下面详细描述的，图 2A 和 2B 显示了使用无线适配器的通信单元的例子。用户可以通过输出管理器 308 通过主机信息装置 100 提供的用户接口，与输出管理器 308 交互。

• 输出管理器 308 可以帮助发现可用的输出设备 140、检验通信连接、确认设备对于服务的有效性或兼容性、或向一个或多个设备发送或广播服务请求。

• 输出管理器 308 可以与输出控制器 120 通信，以确定必需的软件组件、数据、或可能的需要从输出控制器 120 上载到主机信息装置 100 以使普适输出成为可能的由信息或参数决定的任何其它设备。软

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件组件可以是例如设备驱动程序、应用程序、特殊代码或算法、可执行对象或设备决定的数据、参数、信息等。

• 输出管理器 308 可以与输出控制器 120 配合，以将需要的组件或数据从输出控制器 120 上载到它的主机信息装置 100，使得用户可以普适地将数字内容输出至该输出控制器 120 或与它相关的输出设备 140。

• 输出管理器 308 可以执行光栅图像处理操作（例如光栅化、色彩管理、半色调操作）或将数字内容从原始格式转换为适宜输入特定的输出控制器 120 或输出设备 140 的打印数据。数字内容可以由信息装置 100 创建、存储或接收。例如，输出管理器 308 可以将数字文档信息从某种格式或语言转换为用于输出的特定的打印数据或中间格式或语言，如 PostScript、PCL、EMF、XML、TIFF、JPEG、RTL 等。

• 输出管理器 308 可以协调或管理主机信息装置 100 和输出控制器 120 之间的通信，以将打印数据发送或发射至输出控制器 120。

输出控制器 120

输出控制器 120 可以实现为软件或硬件，且可以连接至输出设备 140 或结合入输出设备 140。输出控制器 120H 说明了安装或结合在输出设备 140 内的电路板或卡形式的硬件实现，所述输出设备 140 如打印机、复印机、传真机、显示屏等。在另一结构中（未显示），输出控制器 120 可以实现为安装或结合在输出设备 140 内的软件应用程序或组件。输出控制器 120G 说明了一种硬件实现，其形式为单独连接至一个或多个输出设备 140 的外部元件或“盒”。

无论输出控制器 120 外部连接至或内部安装于输出设备 140，它可以实现为执行这里描述的输出控制器 120 的特征集及功能的硬件、软件或二者兼有。在输出设备 140 是打印机的情况下，输出控制器 120 有时也可以被称为打印服务器。下面参考图 4 描述输出控制器 120 的示例结构及实施方式。

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作为一个例子，输出控制器 120 可以实现为连接至一个或多个输出设备 140 的计算机。例如，现有的 PC、工作站或服务器可以适用于输出控制器 120。在这种情况中，可以使用在连接至输出设备 140 的计算机（PC、服务器或工作站）内安装的应用软件实现输出控制器 120 的功能。

安装在输出设备 140 中或与其相连的输出控制器 120，如打印机，使输出设备 140 能够与信息装置 100 通信并协商服务。在一种实施方式中，信息装置 100 可以与连接至打印机的输出控制器 120 或安装在打印机内部以得到设备相关的数据或软件组件如设备特定打印机驱动程序的输出控制器 120 通信。例如位于信息装置 100 中的输出管理器 308 这样的应用程序可以安装并配置上载的组件或数据，使得信息装置 100 直接打印至该打印机。下面参考图 5 描述输出进程的例子。

输出控制器 120 的功能和特征集可以包括以下的一个或多个：

• 向客户端提供服务——输出控制器 120 可以积极地搜索包括信息装置 100 或输出管理器 308 或其它通信单元在内的可用客户端，客户端输出服务将提供给这些可用客户端。二者择一或者结合地，输出控制器 120 可以被动地等待被包括信息装置 100 在内的一个或多个客户端发现，以向客户端提供输出服务。

• 协商与信息装置 100 的服务——作为协商要提供的输出服务的一部分，输出控制器 120 可以同信息装置 100 通信并交换信息。例如，在与信息装置 100 的通信中，输出控制器 120 可以向信息装置 100 通知对于所选的输出设备 140 如打印机的构成、型号、标识、版本、输入语言类型、设备驱动软件类型、提供的服务类型、可上载的组件的类型等。在另一个例子中，信息装置 100 可以将一条或多条消息发送至输出控制器 120，该输出控制器询问信息装置 100 在需要的情况下需要将什么软件组件或数据从输出控制器 120 上载，以使得输出至特定的输出设备 140 成为可能。

• 提供安全功能，如验证及加密——验证用于阻止对服务的多余

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访问，而加密用于阻止窃听。安全程序可以在输出控制器 120 或输出设备 140 和信息装置 100 之间的通信的不同步骤及阶段，由软件、硬件或二者的组合实现。

• 付费或交易管理及服务——用户在例如向打印机 140 或其它输出设备 140 提供输出时，可以被要求支付服务费。输出控制器 120 可以有根据顾客请求或享受的服务而计算并处理付费的能力。输出控制器 120 可以处理多种形式的付费，例如：现金、电子现金、信用卡、借贷卡、电子卡、智能卡、虚拟现金等。

• 存储能力——输出控制器 120 可以包括内存或存储单元，并可以在其中存储以下的一个或多个：应用软件、设备或打印机驱动程序、软件组件、设备相关的数据或参数、用户接口等。在输出设备 140 或输出控制器 120 中存储的软件组件或数据可以上载至信息装置 100，以使信息装置 100 或输出管理器 308 驱动输出设备 140。软件组件可以是可执行的或部分可执行的程序或数据。

• 与信息装置 100 同步——在信息装置 100 中的输出控制器 120 或输出管理器 308 确定能够输出或打印所需要的组件（软件组件、数据、信息或参数）之后，输出控制器 120 可以与输出管理器 308 协调，以将输出控制器 120 的内存或存储单元中存储的组件上载至信息装置 100。

• 提供管理工具——多个信息装置 100 可以同时或在重叠时间请求来自相同输出设备 140 的服务。输出控制器 120 可以提供管理工具，如打印作业的队列及脱机打印、服务质量等。

如上所述，输出控制器 120 可以以多种方式实现，并可以包括硬件、软件、或二者的组合。例如在硬件实现中，输出控制器 120 可以包括使用一种或多种硬件类型如 ASIC、DSP、FPGA、固件、片载系统、及通信芯片集的组件。输出控制器 120 还可以包括具有软件组件的嵌入式处理器或嵌入式应用软件，以实现它的特征集和功能。输出控制器 120 可以含有或不含有操作系统。

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输出控制器 120 通常包括可以存储一个或多个软件应用程序、软件组件和数据的内存或存储单元（ROM、RAM、闪存、磁盘驱动器——未显示）。一些软件应用程序可以在输出控制器 120 内运行，以执行它的功能（如，同信息装置 100 通信）。

输出控制器 120 的内存或存储单元还可以存储数据和一个或多个软件组件，在与输出管理器 308 通信期间，所述数据和一个或多个软件组件可被上载到信息装置 100 或与其同步。软件组件可以是能够在信息装置 100 上运行的设备驱动程序或完整的应用软件。一旦这样的软件组件被上载并安装，信息装置 100 就可以驱动或输出至特定的输出设备 140。

软件组件还可以是部分的设备驱动程序或部分的应用程序软件或部分的软件程序。软件组件可以是可执行的或部分可执行的程序、对象或代码。软件组件可以封装信息、算法、和数据。可以包括在软件组件中的算法的例子包括压缩/解压缩方法、文件转换、图形表现及渲染、图像处理及增强操作、色空间变换及数据转换、编码/解码技术、色彩匹配及增强方法、图像变换、内插方法、半色调技术、用户接口软件代码等。可以包括在软件组件中的数据的例子包括例如：色彩表、色空间信息、半色调表、输出设备类型、输出分辨率、位深度、输入类型、格式或语言、通信协议类型、输出状态、设备标识及签名、图形、图像及文本描述等。

这种软件组件可以上载至输出管理器 308，以方便打印数据或输出数据的通信及生成，所述打印数据或输出数据对于输出控制器 120 或输出设备 140 适合、兼容或最优。输出控制器 120 和输出管理器 308 管理并协商要上载至信息装置 100 的合适的组件。

并非所有情况都需要将整个或全部驱动程序或应用程序上载至输出管理器 308 或信息装置 100。在一些实施方式中，仅上载一个软件

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组件就足够了。例如，许多喷墨打印机通常使用一位或多位 CMYK 打印技术，有时具有相似的分辨率。信息装置 100 可以预先安装较通用的打印机驱动程序，这个打印机驱动程序包含软件代码、算法及数据的设备无关的部分，它们是公用的或者可以用于整个这一类打印机。设备无关的代码可以包括例如：适用于整个这一类打印机使用的数字文档的光栅化过程（包括半色调和色彩管理方法）和图像增强。在这个例子中，仅上载较小的软件组件或数据是可行的，其中上载的软件组件或数据包括了对于特殊的打印机或输出设备 140 的设备相关的组件。设备相关的部分或组件或数据可以包括但不限于：对于打印机或输出设备 140 特定的色彩表、半色调表、输出分辨率、位深度、压缩/解压缩方法、色空间变换、编码算法或变换软件。

在输出控制器 120 的内存单元中存储的用于上载至信息装置 100 的软件组件的另一个例子是用于获取用户对打印或输出操作的偏好的安装向导或用户接口。在打印情况下的用户偏好的例子包括但不限于：色彩及打印质量参数调整、打印份数、每页的卡片（card）数目、每张（sheet）的页数、双面打印、纵向（portrait）或横向（landscape）、安全信息等。

一旦软件组件或数据被上载或安装于信息装置 100 中，信息装置 100 可以驱动或输出至输出设备 140。例如，信息装置中的应用程序 302 可以将数字文档或图像打印到打印机。

为了驱动特定的输出设备 140，不同的信息装置 100 可能需要上载不同的软件组件。因此，可以在输出控制器 120 的内存或存储元件中存储用于多个信息装置 100、操作系统及平台类型的多种软件组件和数据或设备驱动程序。

输出控制器 120 可能包含用来管理应用程序的嵌入式操作系统。有了操作系统，输出控制器 120 的一些或全部功能和特征集可以实现

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为应用软件。可以将附加的应用软件安装或升级到新版本，以例如提供附加功能或故障修复。

输出控制器 120 可以包含用户接口，允许用户配置并管理输出控制器 120 提供的功能。输出控制器 120 的用户接口可以使用例如下列设施而实现：显示屏、软按键、按钮、鼠标、指示笔及键盘，以使用户与输出控制器 120 提供的功能进行交互并对其进行管理。这种功能的例子可以包括以下任一种或全部：开关电源、状态显示或指示、取消当前作业、或重定向现有作业等。

输出控制器 120 通常还包括通信或适配器单元，它使输出控制器 120 可以通过无线或有线连接与包括信息装置 100 在内的其它设备通信。下面参考图 2 描述无线适配器或通信单元的示例结构。

当输出控制器 120 实现为固件或嵌入式应用程序时，对输出控制器 120 的功能的配置和管理可选地通过例如使用主机（未显示）中的控制器管理软件而实现。主机可以是台式个人电脑（PC）、工作站、或服务器。主机可以本地的或通过网络连接至输出设备 140 或控制器 120。主机和输出控制器 120 之间的通信可以通过无线或有线通信而实现。主机中的管理应用软件可以管理输出控制器 120 的设置、配置、和特征集。进一步，主机配置应用程序可以在输出控制器 120 中下载或安装应用软件、软件组件或数据，用于对输出控制器 120 的特征和能力进行升级、更新、和/或改进。

一个实现中的输出设备 140 包括或连接到上述输出控制器 120。因此，输出控制器 120 提供的功能和特征集被自动包括为输出设备 140 的部分功能。然而，输出设备 140 可以实现或包含至少部分提供输出控制器 120 的特征和功能的其它控制器或应用程序。

因此，输出设备 140 可以包括输出控制器 120 提供的一些或全部

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功能和特征。

输出设备 140

无论输出介质是基片（如纸）、显示图像、投影机、或者声音，输出设备 140 都是能够输出数字内容的电子系统。输出设备 140 的典型例子可以是在基片上输出包含文本、图形、图像或任一组合的数字文档的打印机。输出设备 140 还可以是能够显示静止图像或视频的显示设备，例如但不限于：电视、显示器、投影机等。输出设备 140 页可以是能够输出声音的设备。任何可以播放或读出音频（如音乐）或数据（如文本或文档）格式内容的设备也是可能的输出设备 140。这里经常以打印机（包括传真机、复印机等）指代示例性的输出设备 140。然而应当理解，本发明也同样应用于除打印机之外的输出设备 140。

图 9A 是现有的打印系统或打印机 900A 的框图，该打印系统或打印机 900A 具有三个基本组件：光栅图像处理器（RIP）902、内存缓冲器 904、和标识引擎 906。光栅图像处理器将数字内容转换为适合打印的位图；内存缓冲器 904 保持已经适于打印的光栅化的图像；以及标识引擎 906 将着色剂转移至基片（如纸）。

标识引擎 906 可以使用多种不同的技术之一将光栅化的图像转换到纸或其它介质，换言之，将着色剂转移至基片。可能使用的不同标记或打印技术包括击打或非击打式打印。击打式打印的例子可以包括点阵、电传打字、菊花轮式等。非击打式打印技术可以包括喷墨、激光、静电、热、染料升华等。

打印机 900 的标识引擎 906 和存储缓冲器 904 形成打印机引擎 908，打印机引擎 908 还可以包括用于解码及信号转换等的附加电路和组件（未显示），如固件、软件和/或芯片或芯片集。向打印机引擎 908 的输入通常是由光栅图像处理器 902 生成的最终光栅化的打印数据。这种输入通常是设备相关的且对打印机是特定的。打印机引擎 908

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可以获得该设备相关的输入并生成输出页。

光栅图像处理器（RIP）902 可以位于打印设备自身内（如图 10A 所示）或在外部实现为硬件、软件或二者的组合。作为例子，RIP 可以实现为信息装置中的软件应用程序或设备驱动程序。RIP 还可以位于本发明的打印控制器、打印服务器或输出控制器中。光栅图像处理操作的例子还包括图像和图形解释、光栅化、分段、色空间转换、图像增强、色彩校正、半色调等。

当 RIP 902 位于输出设备 140 中时，RIP 902 通常包含于打印控制器 910 中，该打印控制器 901 可以例如将输入打印数据解释、转换和/或光栅化为打印机引擎 908 可以理解的最终格式、语言或指令。具有较快打印速度的激光打印机是这一类的一个例子。例如，PostScript 打印机控制器 910 可以包含 postscript 解释器（未显示）和光栅图像处理器 902（RIP）。Postscript 解释器解释 postscript 语言，且光栅图像处理器 902 可能处理数字文档并将其转换为可以为打印机引擎 908 所接受的打印机特定的格式、语言或指令。在这个例子中，可能在信息装置 100 中需要设备相关的打印机驱动程序（如 postscript 驱动程序，未显示），以将数字文档从它的原始格式转换为可被打印机控制器 910 所接受的打印数据（如，以 PostScript 形式）。

页面描述语言的另一例子是来自 HP（Hewlett Packard）的 PCL（打印机命令语言）。与 postscript 相同，装备了 PCL 打印机控制器 910 的打印机可以将 PCL 作为输入。信息装置 100 通常需要具有 PCL 打印机驱动程序，以驱动或打印到装备了 PCL 控制器的打印机。

尽管上面的说明使用 PostScript 和 PCL 作为例子，但多种其它页面描述语言、标记语言、图像格式、图形格式、及文件格式也可以用作到打印机 900 或输出设备 140 的输入打印数据 920。除了 PostScript 和 PCL 之外的其它可能输入的例子可能包括但不限于：EMF、XML、

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HTML 等。一些打印机制造商还可以使用专用或非专用的对于打印数据 920 的页面描述语言、置标语言、文件格式、图形和图像格式、色空间、元文件、编码、解码、压缩或解压缩等的组合。发送至具有打印机控制器 910 的打印机的打印数据 920 通常是数字文档的中间描述，它在发送至用于输出的打印机引擎之前需要进一步的解释、处理和/或转换。打印机控制器 910 可能将输入中间打印数据信息解释并处理为可以被打印机引擎 908 理解的最终格式。不考虑打印数据 920 的类型，用户通常不得不在他们的信息装置 100 中预先安装设备特定的驱动程序，以输出可以被特定的打印机 140 所接受的合适的语言、格式或文件。

一些输出设备 900B 不具有打印机控制器 910，如图 9B 所示。一个典型的例子是低成本喷墨打印机。这个例子中的 RIP 可以实现为信息装置 100 中本发明的软件应用程序 302 或设备驱动程序或输出管理器 308。因此，可以在输出到这样的打印机的信息装置 100 中发生光栅化过程。设备特定的驱动程序或应用程序可能需要位于信息装置 100 中，以将数字文档从它的原始格式光栅化并转换为可以被特殊的打印机引擎 908B 理解的最终的打印数据 920B（如具有每象素一个或多个比特的压缩 CMKY 数据）。

在本发明中，对于打印机 900B，RIP 可以整合在信息装置 100 中的输出管理器 308 或应用软件 302 之内。或者，RIP 还可以整合为任一输出控制器的一部分或一个功能，如结构 120D、120E 和 120F 所示。

输出控制器 120 可能与输出设备 140 外部相连，或在内部整合入输出设备 140。如果输出设备 140，如打印机，已经包括了打印机控制器 910，则输出控制器 120 可与打印机控制器 910 作为两个独立的控制器而串行地或级联地实现。或者，输出控制器 120 可以与打印机控制器结合为一体，成为“联合控制器”120C。联合控制器（如 120C 或 120F）具有本发明的打印机控制器 910（如输入解释和/或光栅图像

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处理）和输出控制器 120 二者的功能。输出控制器 120 和打印机控制器 910 的其它结构和实施方式也是可能的。下面参考图 4 描述输出控制器的多种可能的结构和实施方式。

通信单元

具有输出控制器 120 的信息装置 100 之间的通信链路 150 和 160 无论是外部相连和/或内部整合都可能有多种实现方式。在一种实现中，信息装置 100 通过例如红外或无线电链路这样的无线连接与输出控制器 120 通信。无线连接技术的例子包括但不限于：IrDA、家庭 RF（Home RF）、蓝牙、IEEE 802.11、HiperLan 2 等。但是本发明中也可以实现如串行接口、并行接口、USB 接口、火线（IEEE 1394）、以太网和令牌网等这样的无线连接。适配器对可以合并入每一通信节点（如信息装置 100 和输出控制器 120），以通过执行信号转换进行通信。

在输出控制器 120 作为外部元件或“盒”而安装的情况（如图 4A 所示），也可以使用无线或有线适配器实现输出控制器 120 和输出设备 140 之间的通信链路 170。

图 2A 和图 2B 是显示可以包含在信息装置 100、输出控制器 120 或输出设备 140 之中的无线通信适配器的两种示例结构和实施方式的框图。参考图 2A，可能实现无线电适配器 200 以使得可以通过无线电链路在设备之间传输数据/语音。使用与天线 216 耦合的 RF 收发器 214 来接收并发送无线电频率信号。RF 收发器 214 还进行无线电信号和电子信号之间的转换。RF 收发器 214 通过接口 212 连接到 RF 链路控制器 210。接口 212 可以执行如模数转换、数模转换、调制/解调以及其它数据转换功能。

RF 链路控制器 210 实现实时低层（如物理层）协议处理，使主机（如信息装置 100、输出控制器 120、输出设备 140 等）可以在无线电链路上通信。链路控制器 210 执行的功能可以包括但不限于：错

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误检测/校正、功率控制、数据分组处理、数据加密/解密以及其它数据处理功能。

可以使用多种无线电链路，包括一组在 2.4GHz 不需执照的频带中操作的竞争技术。这个组现在包括蓝牙、家庭射频（Home RF）、和基于 IEEE 802.11 标准的实现。其中每一种技术都有不同的协议集，且它们都提供了对无线局域网（LAN）的解决方案。这些技术之间的冲突会限制对这些协议的同时使用。可以预期，将出现新的局域无线技术或者现存的局域无线技术将会聚。然而，本发明中可以实现所有这些现存的和未来的无线技术，以在不同设备中不受限制地传输数据，因此不脱离本发明的范围。

在当前可用的无线技术中，蓝牙需要相对低的能耗。蓝牙有其自己的协议栈，且是为近距离（10 米）、点到多点语音和数据传递而设计的。它基于扩频的跳频方案。使用了 79 个跳频，从最低频 2402MHz 开始，79 个跳频的每一个都比其相邻的较低频率高 1MHz。可用蓝牙的设备在皮网（piconet）上运行，在皮网中使用相同的跳频方式或顺序的几个设备在点到多点系统（皮网）中相连。每一皮网中的一个设备（主机）决定如何将带宽分配到其它设备（从设备）。可以同时处理多达 10 个 8 台设备的皮网。

参考考图 2B，可以实现红外适配器 220，使得数据可以通过红外传输在设备之间传输。红外适配器 220 可以依照红外数据协会（IrDA）标准及规范方便地安装。通常，IrDA 标准用于向要正常使用电缆来连接的设备提供无线连接技术。IrDA 标准是点到点（与蓝牙中的点到多点相对）、窄角、专设（ad-hoc）的数据传输标准，被设计为在 0～1 米距离以最多 4Mbps 的速度操作。

红外适配器 220 的结构可以根据需要的数据传输速度而改变。图 2B 显示了红外适配器 220 的一个实施例。收发器 226 接收/发射 IR 信

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号并进行 IR 信号与电信号之间的转换。UART（通用异步收发报机）222 执行串行化/解串行化、串行数据流与数据字节之间的转换这些功能。UART 222 通过编码器/解码器（ENDEC）224 连接到 IR 收发器 226。这种结构通常适合于以相对低的速度传输数据，例如 115.2kbps 或更低。对于较高的数据传输速率，可能需要其它元件（如分组成帧器、锁相环）。

图 2A 和 2B 显示了无线适配器的示例结构。这样的适配器实现为设备（如信息装置 100、输出控制器 120、输出设备 140 等），以使在它们之间可以无线通信。但是在本发明中也可通过使用合适的适配器和结构而实现有线链路，如并行接口、USB、固件接口、以太网及令牌环网络。

不同的输出管理器结构及过程

图 3A-3C 显示了输出管理器 308 的不同实施方式。图 3A 显示了输出管理器 308 的示例结构，其中输出管理器 308 的主机信息装置 100 包括操作系统。这种信息装置 100 可以包括但不限于：台式 PC、膝上型 PC 和手持或掌上电脑等。操作系统提供了 API 或对象模型 300，使软件应用程序 302 可以与不同的设备管理应用程序接口并通信，有时称这些设备管理应用程序为设备驱动程序。这种情况中的输出管理器 308 的特征为设备管理应用程序或设备驱动程序之一。不同的软件应用程序 302A 可以通过使用操作系统提供的 API 300 而共享相同的输出管理器 308。

如图 3A 所示，电子邮件应用程序 302 A1、文档生成应用程序 302 A2 和因特网浏览应用程序 302 A3（统称为应用软件 302）可以在信息装置 100 中包含的操作系统之上操作或通过该操作系统而操作。操作系统提供或支持 API 或对象模型 300，使这些软件应用程序 302 与输出管理器 308 提供的用途及服务通信并访问这些用途及服务。应用软件 302 和输出管理器 308 可以通过使用例如文件传输、元文件、消

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息、实例、程序调用等的多种方法互相通信，这些方法可能或可能没有由操作系统或它的 API 或对象模型 300 提供。输出管理器 308 与输出控制器 120 通信并同步，以使普适输出成为可能。因此，用户可以从任一这些软件应用程序 302（电子邮件、文档生成、因特网浏览等）中将数字内容输出到装备了或连接至输出控制器 120 的输出设备 140。

应当认识到，图 3 所示的三种软件应用程序 302（1）-302（3）仅仅是可能在信息装置 100 中包含的应用程序的例子。多种其它软件应用程序 302（如消息通信、数字图像、图形、视频、音频等）也可能存在于相同的信息装置 100 中，且它们都可能访问输出管理器 308 提供的用途。还应当认识到，其它设备管理应用程序或驱动程序也可能包含于信息装置 100 中。这些设备管理应用程序或驱动程序可以与输出管理器 308 相同的方式实现，从而它们可以由操作系统支持的其它软件应用程序访问。

图 3B 和 3C 显示了当信息装置 100 分别为不包括操作系统或包括功能较少的操作系统时的输出管理器 308 的示例结构，其中所述功能较少的操作系统不提供用于软件应用程序 302 交互的 API 或对象模型 300。这种信息装置 100 的例子可以包括但不限于：PDA、智能电话、传呼机、因特网板（pad）、电子邮件终端、数字及视频相机、电子图书以及其它专用设备等。在这种情况中，信息装置 100 中的每一软件应用程序 302 提供或实现使得普适输出成为可能的能力。如图 3B 所示，每一软件应用程序 302 B1-302 B3 结合了输出管理器 308 或包括输出管理器 308 的特征，以使普适输出成为可能。应当认识到，即使在有完整的操作系统的环境中，应用软件 302 仍可决定实现它自己的输出或设备管理能力（如图 3B 所示），且不依赖或使用操作系统提供的功能或 API 或对象模型 300，以方便访问作为独立应用程序的输出管理器。

图 3C 中显示了另一种实施方式，没有将输出管理器 308 整合入

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应用软件 302。软件应用程序 302 C1-302 C3 可以建立与输出管理器 308 的之间链路，该链路可用作能够在需要时由每一软件应用程序 302 调用或启动的帮助程序。

输出管理器 308 和其它软件应用程序 302 之间的信息的通信及交换可以由许多可用技术的一个或多个实现，这些技术如传递、传输或交换对象、消息、程序调用、文件、元文件等。通过应用软件 302 或输出管理器 308 或操作系统提供的 API 或对象模型集容易实现这些技术中的一些。严格的技术可能依赖例如应用程序的类型、平台、语言、以及开发者的偏好等。这可以被本领域普通软件工程师容易地实现并理解。

上面仅仅是输出管理器 308 的示例性实施方式。由于操作系统的特征集和能力的多样性，输出管理器 308 的其它实施方式也是可能的。作为一个例子，一些操作系统可以提供部分 API 或对象模型，以支持有限的输出能力。在这种情况中，软件应用程序 302 可以依赖有限的输出能力，以与设备管理应用程序交互，或者软件应用程序 302 可以使用图 3B 或 3C 中所示的结构或结构的组合，实现或部分合并其它想要的输出管理器 308 的输出特征。

图 4A-4F 显示了输出控制器 120 的多种供选择的结构和实现。如上所述，打印机 900A（图 9）可能在其中包括 RIP 902 或打印机控制器 910。该打印机 900A 通常比没有这些特征的打印机更强大且因此更昂贵。这种打印机 900A 的一个例子是高速激光打印机。输出控制器 120 可以与打印机是否包括打印机控制器无关地在打印机中以多种形式实现。

图 4A 显示，输出控制器 120 可以与一个或多个打印机（只显示了一个）外部级联）。信息装置 100 与输出控制器 120A 通信，然后输出控制器 120A 与输出设备如打印机 104A 通信。如上所述，输出控制

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器 120A 和打印机 140A 之间的通信链路可以是无线链路或有线链路。

图 4B 显示了另一实施方式，其中输出控制器 120B 作为一个或多个电路板或卡而安装在打印机 140B 内部。输出控制器 120B 可以与打印机控制器和打印机 140B 的其它组件共同存在。这种实施方式的一个例子是将输出控制器 120B 与打印机控制器顺序相连。

图 4C 显示了第三种实施方式，其中输出控制器 120 和打印机控制器 910 的功能联合，成为单独的控制器（称为“联合控制器”）120C。联合控制器 120C 是功能更强大的控制器。在该实施方式中，与图 4B 中显示的实行两个独立的控制器相比，有可能减少材料成本。例如，联合控制器 120C 可以共享相同的处理器、内存、及存储器，以运行两种类型的控制器的应用程序及功能，从而可以具有比提供两个独立控制器的方案更低的组件成本。

有些打印机不包括光栅图像处理器或打印机控制器 910，如图 9B 所示，因此通常会较为便宜。这种类型的打印机的一个例子是低成本桌面喷墨打印机。这种类型的打印机可以使用专用的或公开的输入格式。例如，喷墨打印机的输入可以包括每象素输入具有一个或多个比特的特定的专用压缩 CMYK 数据。信息装置 100 中包含的应用软件 302 或打印机驱动程序通常执行光栅图像处理。因此需要合适的设备驱动程序或应用软件在打印前在信息装置 100 上运行光栅图像处理。从而，输出控制器 120 可以在多种打印系统中实现，包括没有或没有完整的用于执行光栅图像处理功能的打印机控制器的打印机。

图 4D 显示了输出控制器 120D 的第四种实施方式，输出控制器 120D 安装在连接到打印机 140D 的外部元件或“盒”中，该打印机 140D 不包括打印机控制器或光栅图像处理器。在这种结构中，信息装置 100 中的应用软件 302 或设备驱动程序 308 将典型地执行光栅化功能。然而，光栅图像处理的一些或全部操作也可以在输出控制器 120D 中实

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现。任何从输出控制器 120D 发送至打印机 140D 的打印数据都优选地是可以被打印机 140D 的打印机引擎理解并处理的最终格式。在另一例子中，输出控制器 120D 和输出设备 140D 之间的连接可以是有线或无线的。例如，信息装置 100 和输出控制器 120D 之间的连接优选地是无线的。

图 4E 显示了输出控制器 120E 的第五实施方式，它作为一个或多个电路板或卡而整合在打印机 140E 内，并可以包含在嵌入式处理器上运行的软件和应用程序。与打印机 140D（图 4D）相同，打印机 140E 不包括打印机控制器或光栅图像处理能力。因此本实施方式中，信息装置 100 将典型地执行光栅化功能。然而，例如对于具有有限的处理及内存能力的信息装置 100，光栅图像处理还可以由输出控制器 120E 完全或部分提供，以加快其光栅图像处理操作速度。

图 4F 显示了第六实施方式，联合控制器 120F 将打印机控制器和输出控制器的功能综合为单独的外部联合控制器元件或“盒”120F。两个控制器功能可以共享公用处理器及公用内存空间，以运行两种类型的控制器的应用程序。在这种结构中，信息装置 100 或联合控制器 120F 可以执行或共享光栅图像处理功能。图 4F 所示的联合控制器 120F 的一个示例实施方式是使用外部计算设备（PC、工作站、或服务器），该外部计算设备运行包括输出控制器 120 和打印机控制器 910 的功能的一个或多个应用程序。

上面是输出控制器 120 的示例实施方式，但其它实施方式也是可能的。例如，输出控制器 120 的部分功能可以在外部“盒”中实现，而其余功能可以作为独立的电路板或与打印机控制器整合而位于输出设备 140 中。作为另一个例子，输出控制器 120 的功能可以在连接到同一输出设备 140 的多个外部盒中实现。作为再一个例子，同一输出控制器 120 可以连接到并服务于多个输出设备 140。

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图 5 显示了使用打印机作为基本输出设备 140 的输出过程的一个实施例。然而应当理解，下面描述的过程可以类似地应用到其它输出设备 140，如传真机、数字复印机、显示屏幕、监视器、电视、语音输出设备等。

步骤 500 表明用户启动来自信息装置 100 的输出。例如，用户可能需要打印或输出来自信息装置 100 的电子邮件、收据、确认、地图、照片、图形、网页、一张或多张 PowerPoint®幻灯片、或任何其它文档或数字内容。可以通过多种方式启动输出，如使用软按键、按钮、键盘、小键盘、鼠标、指示笔、软件 GUI、命令或语音命令等。下面参考图 8 描述一个示例用户接口，用户可以使用它启动来自信息装置 100 的过程。图 5 中显示的输出过程的步骤 500 以及一个或多个其它步骤可以由位于用户信息装置 100 中的输出管理器 308 实现。

步骤 502 是发现过程，其中例如信息装置 100 搜索可用的可以执行请求的输出或打印作业的输出设备 140，包括显示设备、打印机、复印机或传真机等（为了讨论简单，这里选择“打印机”）。位于信息装置 100 中的输出管理器 308 可以参与、协调并管理发现过程 502。作为发现过程 502 的一部分，信息装置 100 可以通过无线或有线连接，与连接到或包括于输出设备 140 的输出控制器 120 通信。

在一些情况下，发现过程 502 或它的一部分可以被跳过。例如，如果用户已经知道了输出被指向的输出设备或打印机，则可跳过发现过程 502。另一个例子中，用户可以将常用的打印机设为优选的缺省打印机，从而如果发现缺省打印机可用，则可以部分跳过发现过程。另一个可以部分或选择性地跳过发现过程 502 的例子包括直接的有线线路连接或红外通信。在这些情况中，用户可以将信息装置 100 直接连接到或物理地指向特定的输出设备 140，使得仅仅检查连接并建立设备间的通信便足够。

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发现过程 502 可以在多种情况中操作。在一个情况中，信息装置 100 通过有线或无线信号广播服务请求，例如打印。服务设备，例如装备了输出控制器 120 的输出设备 140“听”该信号、“读”请求、“看”它们是否可以提供请求服务，如果它们可以提供请求的服务则作出响应。换一种方法或者联合起来，所有服务设备可以周期性地或持续地广播或广告它们提供的服务。信息装置 100“听”这种广播，并确定它需要的服务。在第三种情况中，相同网络（如 LAN）的服务设备以控制点注册它们的服务。控制点是保持关于同一网络内所有服务设备的记录的计算系统（如服务器、控制器）。信息装置 100 可以联系控制点，以搜索它需要的服务。

发现过程 502 中可以实现多种协议。优选无线通信协议。而有线通信也可以实现。可应用的协议的例子可以包括但不限于：蓝牙、HAVi、Jini、问候（Salutation）、服务定位协议、以及通用即插即用等。发现过程中也可以实现其它专用协议或联合。

在发现过程 502 中，信息装置 100 可能发现或可能不发现可用来接收打印或输出作业的输出设备 140。可能影响输出设备 140 的有效性的示例因素可能包括但不限于：

• 物理距离——一些无线通信链路可能对通信设备之间的物理距离加以限制。物理距离的限制可能随不同的无线通信技术而不同。而有线通信也受到电缆或其它有线线路的可用性及长度的支配。

• 兼容性——参考图 5 的输出过程利用多种设备之间的通信及协调，所述多种设备例如具有输出管理器 308 的信息装置 100 以及与输出设备 140 相关联的输出控制器 120。兼容的硬件和软件组件可能需要位于每一通信节点（如信息装置 100 和输出设备 140）中。任何缺少的部分都可能造成兼容性的问题。其它因素也可能导致缺乏兼容性。例如，存储在输出控制器 120 的内存单元中的组件可能不支持信息装置 100 中包括的操作系统或应用软件 312。

• 安全验证——安全验证可以在多种通信步骤中实现，包括发现

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步骤 502。例如当输出服务被限制在一定的用户组或信息装置时，可能需要安全验证。当用户请求服务时，输出设备 140 或输出控制器 120 可以通过自动检测用户、输出管理器 308 或信息装置 100 提供的标识或其它信息而处理验证过程。作为这种证明过程的结果，由于没有向用户或设备授权访问，所以特定用户的信息装置 100 可能不能够发现可用的输出设备 140。

·用户特定的搜索标准——用户可能为发现过程 502 确定特定的搜索标准，如输出设备型号、提供的服务质量、服务收费的价格范围等。不满足用户标准或默认功能标准的输出设备 140 将不显示给用户。

步骤 506 表明如果发现过程 502 中没有发现可用的输出设备 140 则通知用户。可以通过信息装置 100 的用户接口，由应用程序如输出管理器 308 通知用户。信息装置 100 还可以提供更多的详细信息，如请求的服务不可用的原因。可能的原因的例子包括：在有限的服务距离内没有输出设备、没有兼容的硬件或软件组件、技术困难、不满足安全验证、未订阅服务、不符合搜索标准等。

步骤 508 表明当请求的服务当前不可用时提供可选择的方法。可以向用户提供可选择的方法，如取消服务请求、再次尝试、或当请求的服务可用或请求的输出设备 140 被确定或变得可用时通知用户。一个例子是，用户的信息装置 100 可能没有在当前的有线/无线网络中检测到任何可用的输出设备 140。于是打印请求在信息装置 100 中排队或注册。当用户进入具有可用打印机的新的网络时，或当新的兼容的打印机添加到当前网络时，或当打印机因为任何原因而变为可用时，将通过信息装置 100 将该可用性通知用户。于是用户例如仅需按下按钮，便可以将打印作业输出到新检测的或现在可用的打印机。这种检测及通知功能可以由软件程序或作为输出管理器 308 的一个特征而实现。该特征还可以以位于信息装置 100 中的硬件或硬件和软件的联合而实现。

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步骤 514 表明执行了服务协商，例如在发现过程 502 中发现了一个或多个可用的打印机。在服务协商过程 514 中，信息装置 100 与连接到或安装于可用的输出设备 140 的输出控制器 120 交换信息。输出管理器 308 可能与输出控制器 120 共同参与、协调或管理协商过程 514。交换的信息可能包括例如：

• 每一可用的输出设备 140 的类型、批次及型号，包括有关打印机引擎、技术及输出设备的规格的信息。

• 输出设备 140 的类型及参数，如支持的字体或国际字符编码、页面尺寸、分辨率、位深度、色空间、支持的色彩数、彩色或灰度等。

• 各个可用的输出设备 140 提供的服务类型及服务质量。

• 提供服务的条件（如服务收费、订阅收费）以及例如是否满足交易及服务收费。

• 各个输入设备 140 的使用或服务是否限定于一定的组，这种情况下，用户不得不提供验证信息，以在允许使用设备之前确定为该组的成员。

• 信息装置 100 的类型、批次及型号（包括操作系统）。

• 输出控制器 120 或其它设备作为输入而采用的输入格式、编码、语言、数据、色空间、和/或压缩的类型，例如 PostScript、PCL、RTL、XML 等。

• 需要从输出控制器 120 上载到信息装置从而使向特定输出设备输出成为可能的组件或数据的类型。

交换的信息可以由用户手动输入，或者可以自动检测和/或在信息装置 100 和输出控制器 120 之间同步，或者它可以由用户部分辅助或部分自动完成。可以通过信息装置 100 中的用户接口向用户提供交换的信息的一些或全部。用户可以监视该状态并批准特定的交易。下面参考图 6 描述服务协商过程 514 的一个实施例。根据在服务协商过程 514 中提供并得到的信息，用户可以选择一个或多个可以进行打印或输出作业的输出设备 140。

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步骤 516 表明，一旦确定并选择了输出设备 140，就执行同步过程。在同步过程 516 开始之前，信息装置 100 可以与选择的一个或多个输出设备 140 的一个或多个输出控制器 120 通信，以确定什么组件在需要的情况下需要上载到信息装置 100，以使打印或其它输出成为可能。如果在发现过程 502 和/或服务协商过程 514 中已经包含了充分的信息，则这个在信息装置 100 和一个或多个输出控制器 120 之间的通信可能不是必需的。如果信息装置 100 中已经存在了必要的组件（如，在服务协商步骤 514 中确定的），则同步过程 516 可以是可选的或可被部分跳过。

在确定了它们之后，可以从输出控制器 120 将必要的组件或部分组件或数据上载至信息装置 100。可能的组件的例子可以包括但不限于以下的一个或多个：数据、设备驱动程序、打印机驱动程序、应用软件、软件组件、元文件、用户接口等。输出管理器 308 可能参与、协调或管理同步过程 516。可以在同步过程 516 中实现加密技术以防止窃听。

新上载的组件可以被合并入位于用户的信息装置 100 中的输出管理器 308 中。换一种方法或者联合起来，新上载的组件可以作为独立的应用程序或作为输出管理器 308 的一部分而安装在信息装置 100 中。上载及安装的过程可以自动进行或者由用户手工完成，或者联合这两种方式。

同步过程 516 的部分或全部可以在一些情况中跳过。例如，信息装置 100 可能已经包括了输出至被选的一个或多个输出设备 140 所必需的所有软件组件及数据或驱动程序。这可能是由于已经从前面的同步过程 516 上载并未被删除的组件而引起的，或者由于用户在信息装置 100 中预安装了所有输出所需的组件。在这些情况下，没有正在上载的软件组件，且可能向用户通知了可能跳过同步过程 516 的状态。或者同步过程 516 可能对用户透明地自动跳过。

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步骤 518 表明执行了打印或输出作业处理。在步骤 518 中，处理了打印请求或打印作业，且数字内容或文档可能被转换为最终格式，以发送至用于输出的输出设备 140。在步骤 518 的开始，可能向用户提供了选择或改变或输入打印或输出偏好的选项，如版面、打印份数、彩色/灰度、打印质量参数等。这些选项可能包括或提供预配置的用户偏好或厂家缺省值。一些选项、参数及偏好可能是设备相关的，而其它的可能是设备无关的。例如，可能在同步或上载了来自输出控制器 120 的设备相关的组件或信息之后提出设备相关的参数及偏好。设备无关的参数及偏好也可以类似设备相关的参数及偏好那样被上载并同步，或者可能在信息的同步和上载之前，作为输出管理器 308 的一部分而预安装。

参考图 4A-4F，输出控制器 120 可以以多种方式实现。输出控制器 120 的不同实施方式可能影响这里描述的过程。在信息装置 100 的应用程序 312 中包含或生成的原始数字文档或内容可以在转换为用于输出的打印机引擎可以接受的最终打印数据之前，由不同位置中的不同应用程序（应用软件 312、输出管理器 308、输出控制器 120、打印机控制器）处理。例如，用于将它转换为适合输出设备 140 的打印数据的数字文档的光栅图像处理可能根据输出系统和输出设备等的实施方式、结构、以及类型，完全或部分发生于应用软件 312、输出管理器 308、输出控制器 120、或打印机控制器中。下面参考图 7 更为详细的描述在步骤 518 中实现的不同的处理过程和实施例。

步骤 520 表明，打印机引擎或显示引擎 908 生成最终输出。在步骤 520 中，步骤 518 的处理结果被发送至输出设备 140 的打印机引擎或显示引擎 908，以生成在例如基片上的最终输出。可能需要存储缓冲器来在输出之前暂时存储打印数据。可以使用或调用固件、DSP、ASIC、FPGA、片上系统、软件、或其组合，来将数字数据转换为适合打印机引擎或显示引擎 908 的信号。

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在成功打印或显示打印作业或输出作业之后，可以向用户提供选择（未显示），以删除在同步过程 516 期间上载到信息装置 100 的组件。当信息装置 100 的存储空间有限时，这个选择特征是有用的。该选择特征的一个实施方式是提供输出管理器 308 中的设置，其中用户具有以下选择：（1）总是保留上载的数据或组件；或者（2）在完成打印作业时、或在退出应用程序时、或关闭信息装置时、或经过一定时间后，总是自动删除上载的数据或组件；或者（3）总是询问用户是否删除或保留上载的组件或数据。

上面的描述显示了输出过程 501 的一个示例实施例。在上述描述中，打印机指代输出设备 140，但是应当理解，输出过程 501 可以容易地应用于其它输出设备，如传真机、数字复印机、显示屏幕、电视、监视器、投影机、语音输出设备等。

以较少或附加步骤实现的普适输出过程也是可能的。例如，如果用户已经知道哪一或哪些打印机要输出内容，则可跳过步骤 502 的发现过程。在另一个例子中，如果向打印服务提供了费用，则可以向上述输出过程 501 增加付费处理步骤。在这种情况下，输出控制器 120 可以以多种可能的形式，如信用卡、银行卡、现金、电子现金、智能卡等，提供服务，例如计算付费量或收集付费。付费信息（如信用卡号或其它信用标识或付费）可以存储在信息装置 100 中，并按照用户的选择释放给输出控制器 120。然而，向输出过程 501 增加附加过程或跳过一个或多个步骤不脱离本发明的精神及范围。

图 6 显示了服务协商过程 514 的实施例。其中，假设发现过程 502 中已经确定了可用的输出设备 140。在服务协商过程 514 中，信息装置 100 与输出控制器 120 或输出设备 140 交换信息。服务协商过程 514 可能包括以下一个或多个：

（1） 可能向用户提供了关于可用的输出设备 140 的信息。

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（2） 用户可能根据提供的信息选择想要的输出服务。

位于信息装置 100 中的输出管理器 308 可能与输出控制器 120 一起参与、协调并管理服务协商过程 514。

在步骤 600 中，可能在信息装置 100 向用户提供了关于在发现过程 502 中确定的一些或所有可用的输出设备 140 的信息。这里提供的信息可能包括以下一个或多个：

- 发现的可用输出设备的总数。
- 各个可用的输出设备的型号及批次。
- 输出设备的类型及性能。
- 各个可用输出设备提供的服务类型及服务质量。
- 提供服务的条件。例如，是否需要服务费或订阅费以及收费方法。
- 对各个输出设备的使用是否限制于特定的组。
- 在需要的情况下需要上载到信息装置以使到被选的输出设备的输出成为可能的组件或信息。

可以通过信息装置 100 上的用户接口，如 GUI 或语音或其它接口，向用户提供在发现过程 502 期间采集的信息。

在步骤 602 中，根据提供的一些或全部信息，用户可以选择一个或多个输出设备来进行打印请求或打印作业。另一方面，用户可以选择拒绝提供的输出服务，并选择不将文档或内容输出至任何设备。在这种情况中，可以向用户提供供选择的方法，如前面参考步骤 508 所述（图 508）。

验证步骤 604 时可选的，但是如果例如输出设备 140 的使用限定于一组用户，则它可能是必需的。在这种情况中，用户可能不得不提供验证信息，以确定他/她本人为使用该服务的授权组的一部分。验证

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方法的例子可能包括用户的名称、密码、个人身份号码（PIN）、ID 号码、签名、密钥（物理或数字的）、生物测定、指纹、语音等。信息装置 100 的 ID 号码或 IP 地址也可用于验证信息。这种验证信息可以由用户手动提供，或由输出控制器 120 或输出设备 140 自动检测。

应当理解，图 6 仅提供了本发明的服务协商过程 514 的一个实施例。具有较少或附加步骤的服务协商过程 514 也是可能的。例如如果没有限制输出设备 140 的使用，则步骤 604（验证）可能是不必要的。另一个例子是，如果涉及服务费用，则可能向协商过程 514 中增加一个或更多步骤，如信用确认、付费、押金、有条件转让、以及收据处理。然而，所有这些以及其它可能的变动不脱离本发明的精神及范围。

图 7 显示了可以实现为输出或打印作业处理步骤 518 的一部分的不同处理过程。对于这个描述，以打印机指代输出设备 140，以打印数据指代输出数据。应当理解，打印机只是输出设备的一个实施例。显示、投影及音频设备也是本发明范围内的输出设备。不能将代替输出设备的打印机的使用以及代替输出数据的打印数据看成将下面的讨论的范围限定于打印设备。

在步骤 700 中，输出管理器 308 处理输入数据文档或内容 701，并将其转换为可以传输至输出控制器 120、联合控制器（120C、120F）或直接到打印机引擎 908 的打印数据 703。在该步骤中可以发生光栅化、译码、编码、解码等。在一个实施方式中，打印数据 703 可能利用中间格式或语言，以便于数字文档或内容 701 传输至输出控制器 120。该中间格式或语言可以是输出控制器 120 能够理解的预定义的输入格式或语言。在步骤 700 中也可能输出管理器 308 将数字文档 701 经过很少的处理，简单地以其原始格式传递至输出控制器 120。在另一示例实施方式中，输出管理器 308 可能将数字内容或文档 701 处理（如光栅图像处理）为兼容输出设备 140 的输入需要的最终打印数据或输出数据格式。可以使用加密技术，以保证信息装置 100 和输出设

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备 140 之间的通信安全。

如上所述，步骤 700 生成的输出数据或打印数据（在打印机的情况下）703 可以是多种格式。在一个实施例中，打印数据 703 可以是适合直接发送至打印机引擎的最终格式。在这种情况下，输出控制器 120 进行很少的处理或不进行处理。这种结构的一种示例使用可以在不具有打印机控制器的低成本喷墨打印机中实现。在该例中，打印数据 703 可以是能够直接发送至打印机引擎 908 的压缩的 1 比特或更多的 CMYK 数据格式，用于步骤 702 中所示的最终输出。或者打印数据 703 可以被发送至输出控制器 120，用于步骤 704 中所示的可能的可选特征如缓冲、队列、和打印作业管理。

在另一实施例中，输出管理器 308 可能生成需要进一步处理的中间格式、语音、或指令的打印数据 703。这种格式、语言或指令的例子可能包括但不限于：页面描述语言（如 PostScript、PCL）、元文件（如 EMF）、置标语言（如 XML、HTML）、图像或图形格式（TIFF、GIF、PNG、JPEG 压缩）等。中间格式还可能包括页面描述语言、置标语言、元文件、图像及图形格式、编码及解码、压缩及解压缩中的专用方案。上述中间格式可以独立或联合使用。

正如上面参考图 4 所描述的，输出控制器 120 可以以多种方式实现。输出控制器 120 的不同实施方式可能影响这里参考图 7 描述的处理过程。

如步骤 702 所示，打印数据 703 几乎或完全没有经过进一步处理，便被从输出控制器 120 或打印机控制器 910 直接发送至打印机或显示引擎 908，用于最终输出。在这种情况下，打印数据或输出数据 703 优选地是可以被打印机或显示引擎 908 所理解的最终格式或语言，其中打印机或显示引擎 908 是选中的一个或多个输出设备 140 的一部分。

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还可以如步骤 704 所示，打印数据 703 被发送至连接到或安装于选中的打印机或输出设备 140 的输出控制器 120。在一个实施例中，打印数据 703 可以是能够被打印机或显示引擎 908 理解并处理的最终格式或语言。在这种情况下，输出控制器可以在几乎或完全没有进一步处理而将输入打印数据 703 传递至打印机或显示引擎 908 之前，将其缓冲。在另一实施例中，打印数据 703 可以是打印机或输出引擎 908 不能理解的中间格式或语言。因此，输出控制器 120 可以处理打印数据并将其转换为能够发送至打印机引擎（或者在其它类型的输出设备的情况下，发送至其它输出引擎）的最终格式、语言或指令。

不考虑输入打印数据 703 的格式，输出控制器 120 可以执行附加的管理功能，如付费处理、服务确认、验证、打印作业管理、队列、假脱机、服务质量等。

如步骤 706 和 708 所示，打印数据 703 可以在为了最终输出而发送至打印机引擎 908 之前，由输出控制器 120（步骤 706 中）和打印机控制器 910（步骤 708 中）分别处理。例如，一些打印机，例如高速激光打印机，已经包括了具有处理某些类型输入，如 PostScript、PCL、及 XML 等的能力的打印机控制器 910。在这种情况下，输出控制器 120 可能处理打印数据 703 或将其转换为打印机控制器 910 需求的输入 707。或者在另一实施方式中，如果打印数据 703 已经是兼容的且能够为打印机控制器 910 所理解的一种格式或语言，则输出控制器 120 可以简单地缓冲打印数据 703 并根据需要，几乎或完全不经过处理，将其直接发送至打印机控制器 910。在步骤 708 中，如果例如译码、解码、以及光栅图像处理操作还没有由输出控制器 120 或由输出管理器 308 执行，则打印机控制器 910 可以对输入打印数据 707（例如页面描述语言）执行这些功能。打印机控制器 910 的处理结果可能被发送至打印机引擎 908，用于最终输出。

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如步骤 710 所示，结合了输出控制器 120 和打印机控制器 910 的功能的单独的联合控制器 120F、120C（如图 4C 和 4F 所示）可以处理打印数据。为各个控制器提供特征的应用程序可以共享相同的资源，如处理器、内存空间、存储单元等。在这种结构中，如果打印数据 703 还不是打印机引擎请求的格式或语言，则联合控制器（120C、120F）可以进一步在步骤 710 中处理打印数据 703。联合控制器（120C、120F）除了将输入打印数据 703（以前面所述的一种或多种中间格式）转换为请求的打印机引擎 908 格式、语言或指令用于输出以外，可能需要额外执行译码、加码及光栅化操作。如果打印数据 703 已经是能够为打印机引擎 908 所理解的格式、语言或指令，则联合控制器（120C、120F）可以简单的缓冲打印数据 703 并按照需要将其发送至打印机引擎 908，用于输出。

类似的，除了处理打印数据，输出控制器 120 和联合控制器（120C、120F）可以执行诸如付费处理（如果应用了服务收费）、打印作业管理、队列、脱机等功能。

图 8A-8E 显示了不同时间在信息装置 100 的显示屏幕 800 上实施的一系列示例图形用户接口（GUI），以显示参考图 5 描述的输出过程 501 的一个实施方式。显示的用户接口可以在具有或不具有操作系统的信息装置 100 中实现。这里显示的用户接口仅仅是一个例子，在本发明的范围内还可以实施其它用户接口。

参考图 8A，用户使用电子邮件应用程序在信息装置 100 上接收电子邮件。在屏幕 800 的底部显示对于用户可用的功能。打印是其中一个功能，以“打印”功能控件或图标 802 来显示。用户可以通过选择显示的图标而调用该功能。用户可以通过使用例如以下的任何一个或组合来作出选择：键盘、小键盘、鼠标、指示针、软按键、按钮、软件命令、触摸屏等。用户还可以通过例如下拉菜单、语音命令等作出这样的选择。

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当用户选择“打印”功能控件 802 时，调用了参考图 5 描述的输出过程。结果向用户通知所有能够进行打印或输出作业的可用打印机，如果这些可用打印机存在的话。如果没有检测到可用的打印机，则还可以通知用户并向用户提供参考图 5 的步骤 506 和 508 所描述的供选择的方法。

假设在该例子中，发现过程步骤 502 找到了三个可用的打印机。在图 8B 中，屏幕 810 通知用户各个可用打印机的批次及型号。用户可以通过例如选择“更多信息”控件或在各打印机名称之后显示的箭头符号 814，得到关于各个可用打印机的进一步的信息。这里提供的进一步的信息包括但不限于：各个打印机提供的服务选项、提供的服务质量、在收费情况下的服务收费、可接受的收费方法、以及该打印机的使用是否限定于某一组。

如果限定打印机由某一组使用，则用户可能在能够选择该打印机之前被请求提供识别信息。例如，要使用位于公司办公建筑走廊中的打印机，用户必须确定自己是该公司的雇员。有可能需要请求信息装置的 ID 号码、密码或个人身份号码用来授权。识别信息可以由用户手动提供，或者由输出控制器 120 或输出设备 140 自动检测。如果打印机提供了付费服务，则可以额外请求一定的付费过程步骤，为了简便起见没有在图中显示它们。

当用户在服务协商过程 514 中成功地选择的想要的输出设备或服务之后，信息装置 100 可以与输出控制器 120 通信，以确定需要上载至信息装置 100 以使打印成为可能的数据或软件组件，如果这些数据或软件组件存在的话。位于信息装置 100 中的输出管理器 308 可能参与、协调或管理信息装置 100 和输出控制器 120 的应用程序之间的通信。

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在这个特定的例子中，如图 8C 所示，正如屏幕 820 上显示的，信息装置 100 和输出控制器 120 之间的通信确定了打印机驱动程序需要被上载。向用户提供了选择，是否继续该过程。由于该过程可以对用户透明地实现，所以该信息和选择是可选的。信息装置 100 可以向用户提供的其它可选信息包括例如上载所需时间的估计值。

上面的描述给出了需要上载的打印机驱动程序组件的例子。也可能是其它组件或组合，这可能包括例如一部分打印机驱动程序、数据、软件组件、或用户接口。例如一部分打印驱动程序或组件可能仅包括设备相关的软件组件和特定于输出设备的数据。设备驱动程序的设备无关的代码及数据可能先前已经安装在信息装置 100 中，并因此无需上载。也有可能由于打印到选中的输出设备 140 所需的所有组件已经位于信息装置 100 中，所以无需上载组件。假设在这个例子中，用户同意上载驱动程序，图 8D 显示了当进行同步过程 516 时的接口的例子。

当同步过程 516 结束时，屏幕 840 如图 8E 显示给用户。用户可以使用屏幕 840 选择偏好，如页面范围、份数、每页卡片数、彩色或灰度、页面布局参数等。选择“特性”控件或按钮 842，可以向用户提供更多的设备相关的选项，如色彩及色调调整、半色调参数、双面、分辨率、水印等。

步骤 518 和 520 可以在用户结束选择任何偏好之后进行。用户在选择图 8E 中的确认控件或“OK”按钮 844 之后，等待得到来自选择的一个或多个打印机 140 的打印输出或其它输出。图 8F 显示了用于步骤 518 和 520 的打印过程的接口。

在成功结束打印作业之后，可以向用户提供对保留或删除打印机驱动程序或软件组件或同步的设备相关的数据的选择，它们是在前面的步骤中上载到信息装置 100 的。这个选择对于具有有限内存空间的

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移动信息装置 100 或者不常用特定输出设备 140 的用户是有益的。频繁使用选中的打印机的用户可能希望保留安装的打印机驱动程序、软件组件、或数据，从而当再次使用该打印机时可以跳过对上载组件进行同步。

图 8A-8E 仅显示了图 5 所示的输出过程的一个例子。而上面的描述包含很多特征，它们不应当被构造为对本发明的范围的限定，而应作为它的示例性的实施例。也可以实现其它用户接口及实施例。该过程还可以以更多或更少的步骤实现。作为一个例子，可以将安全确认、验证、及付费处理增加到图 8A-8E 所示的步骤中。作为另一个例子，由于在用户选择想要的一个或多个打印机时自动进行载入过程，所以可以跳过图 8C 显示的步骤。但是，这些以及其它可能的改动不脱离本发明的范围。

因此，本发明的范围不应由显示的实施例确定，而应由所附的权利引擎及它们的等同物确定。

已经参考图解的实施例描述并解释了本发明的原理，可以认识到，在不脱离该原理的前提下，可以在安排及细节上对图解的实施例进行改动。考虑到本发明的原理可能应用的许多可能实施例，应当认识到，详细的实施例仅是说明性的，不应作为对本发明范围的限定。所有这样的实施例都落在随附的权利要求及其等同物的范围及精神之内。

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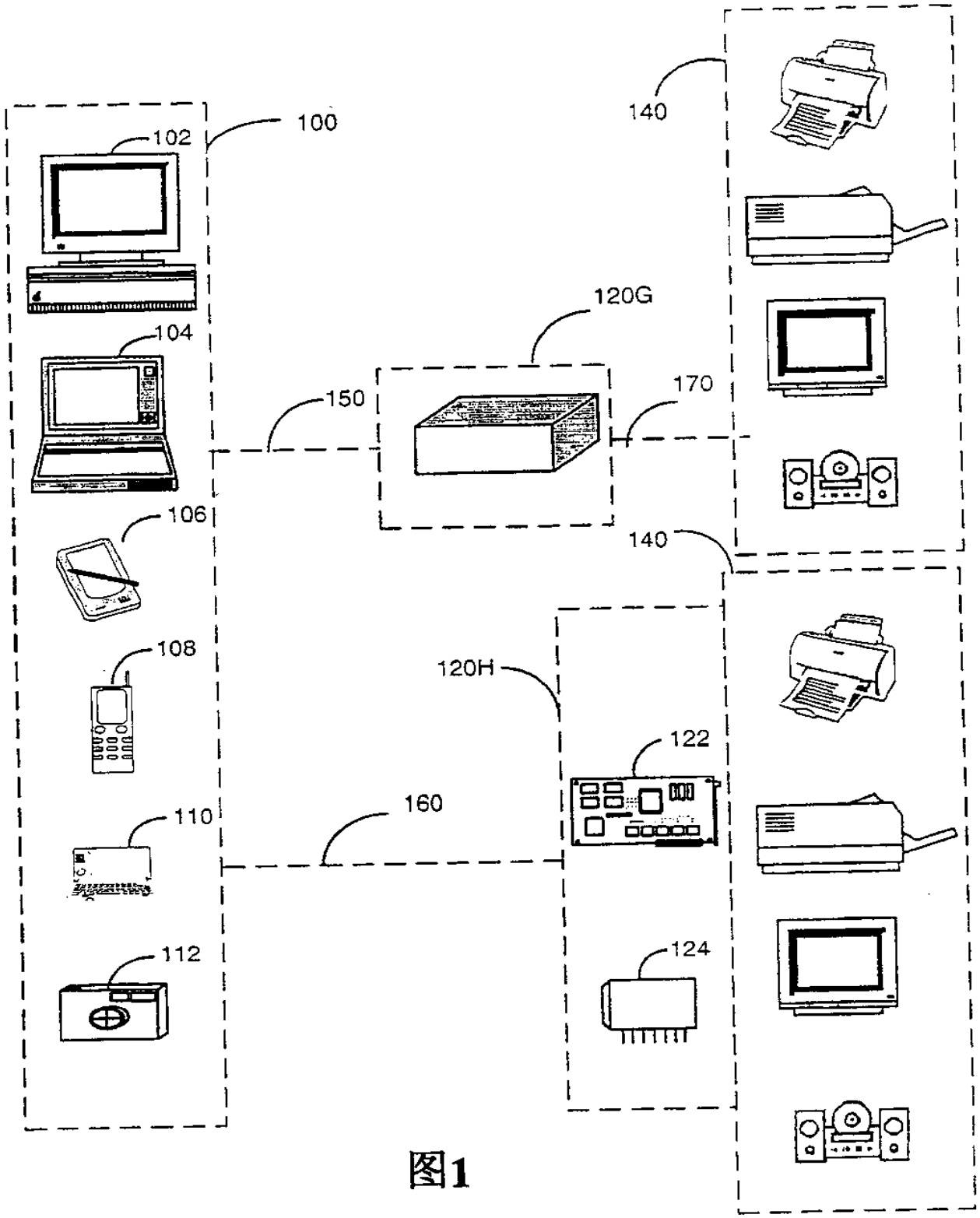

100
102
104
106
108
110
112
120G
120H
122
124
140
140
150
160
170

图1

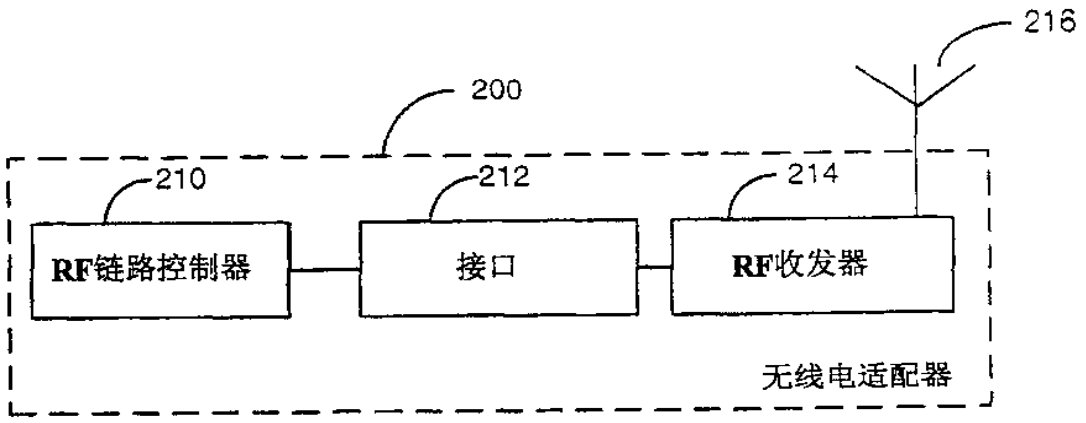


图2A

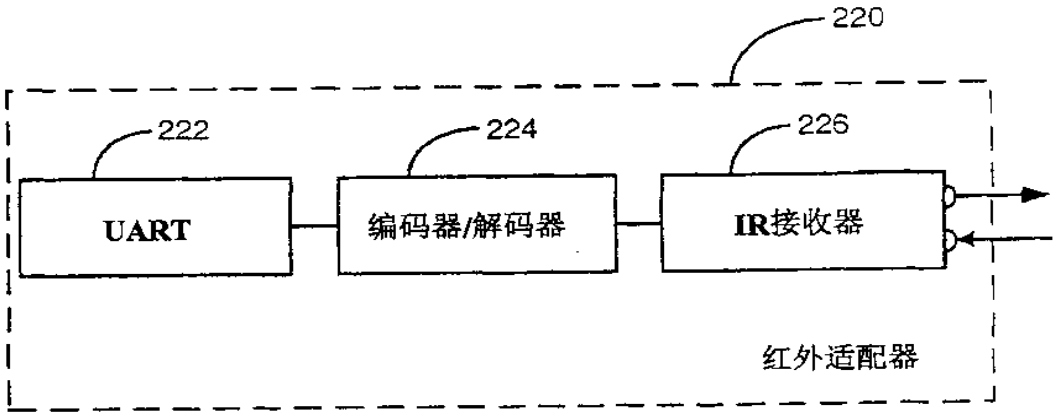


图2B

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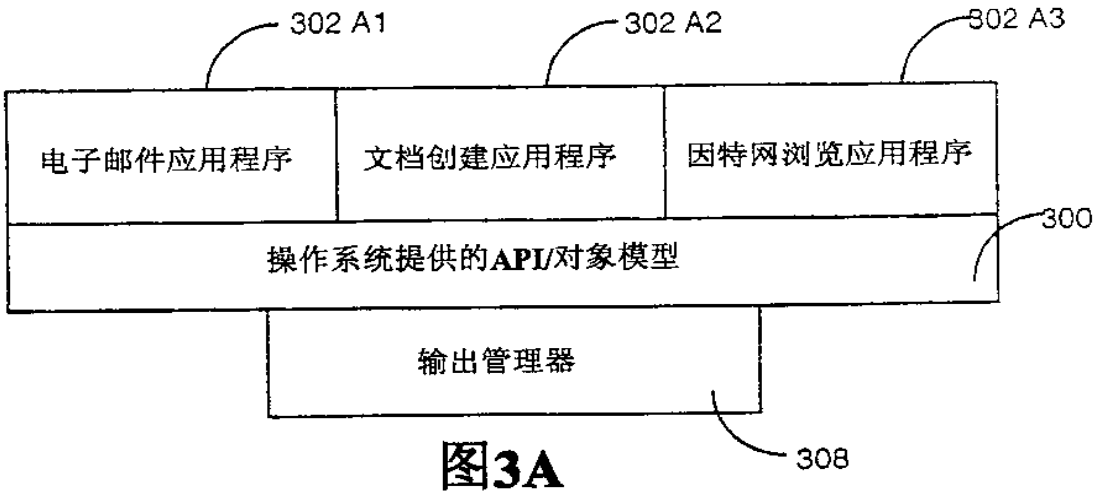


图3A

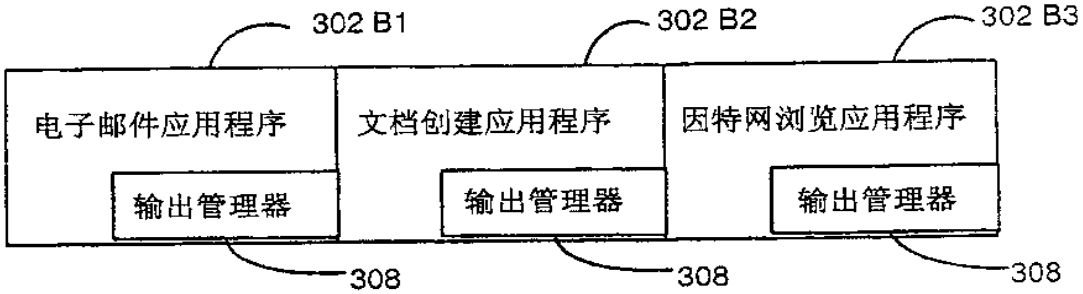


图3B

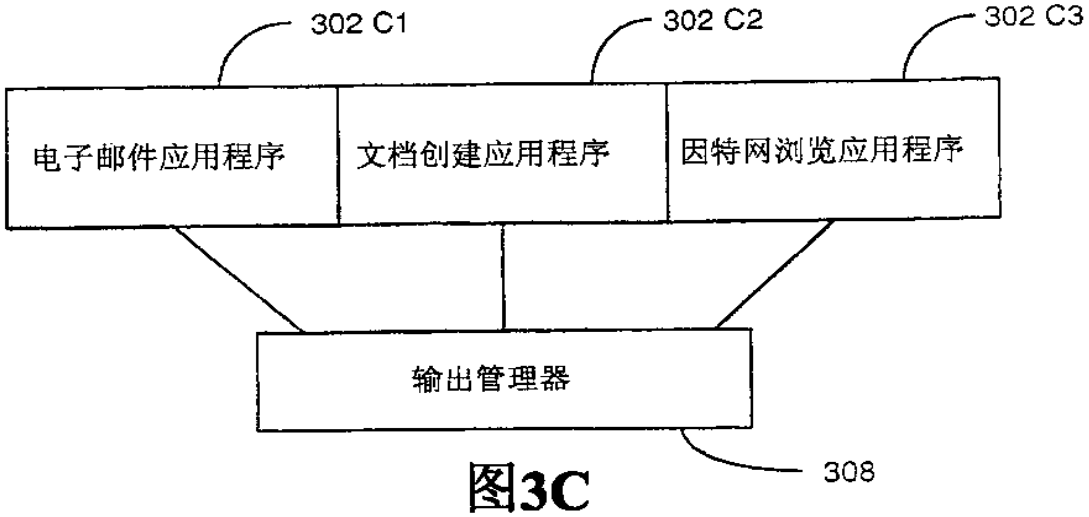


图3C

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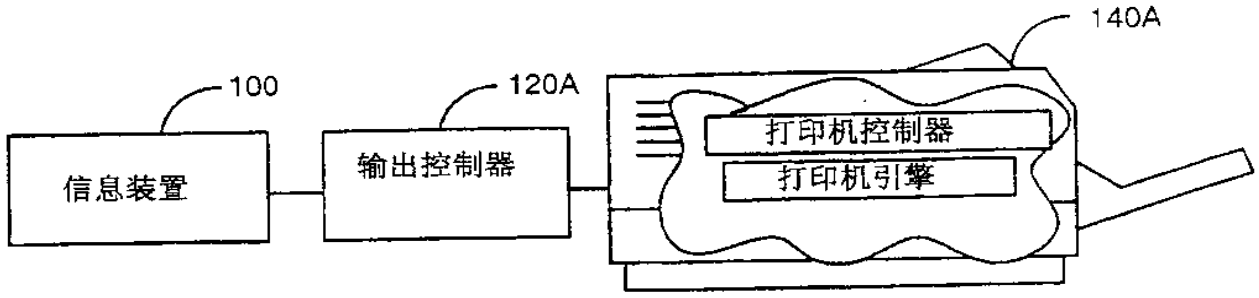

140A
100
120A
信息装置
输出控制器
打印机控制器
打印机引擎

图4A

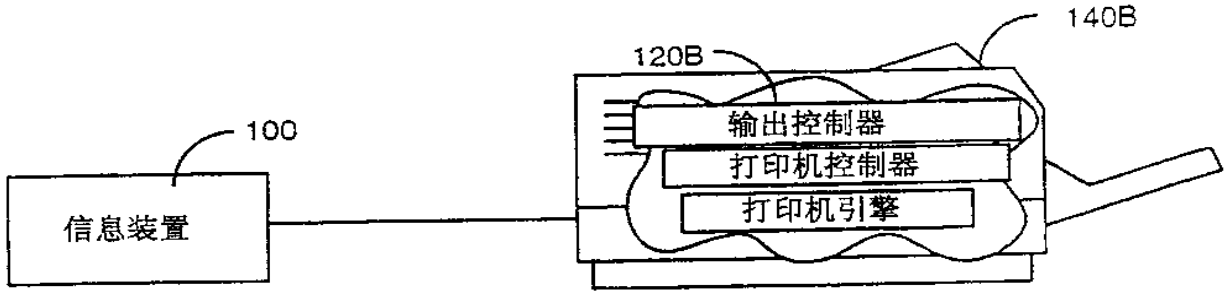

140B
120B
100
信息装置
输出控制器
打印机控制器
打印机引擎

图4B

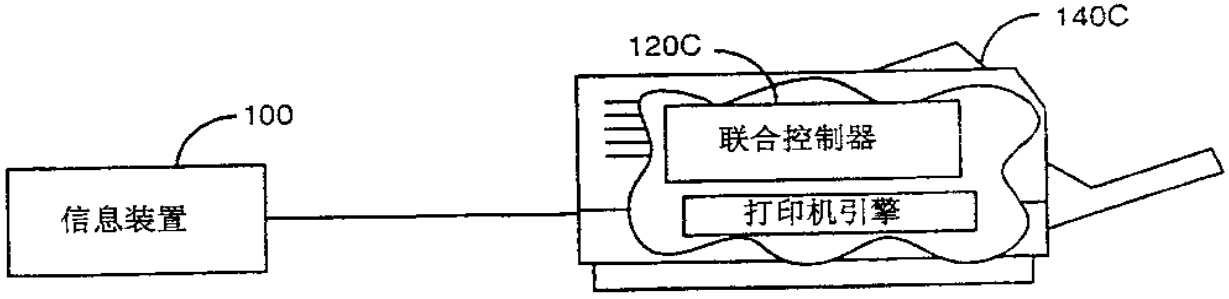

140C
120C
100
信息装置
联合控制器
打印机引擎

图4C

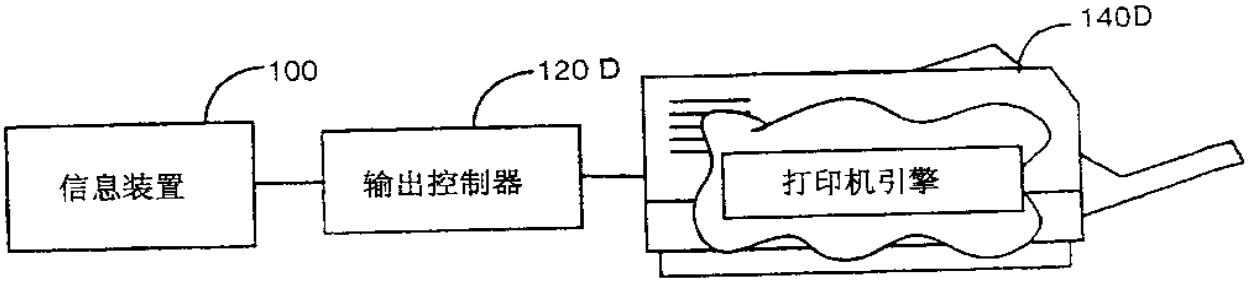

100
120 D
140D
信息装置
输出控制器
打印机引擎

图4D

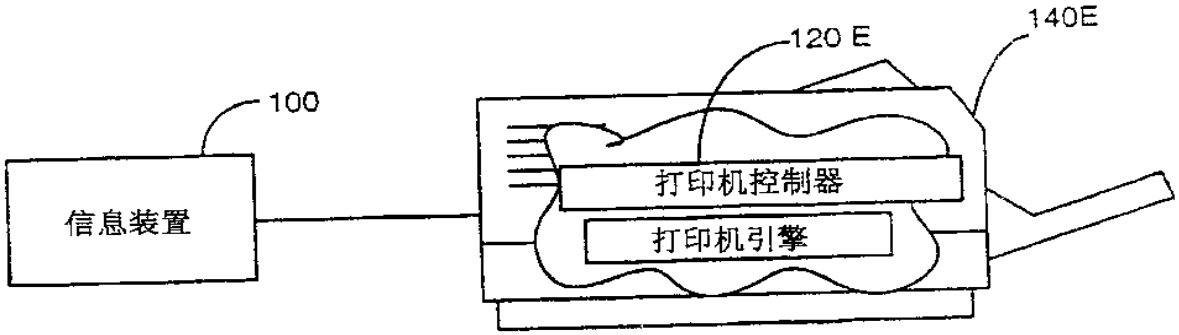

100
120 E
140E
信息装置
打印机控制器
打印机引擎

图4E

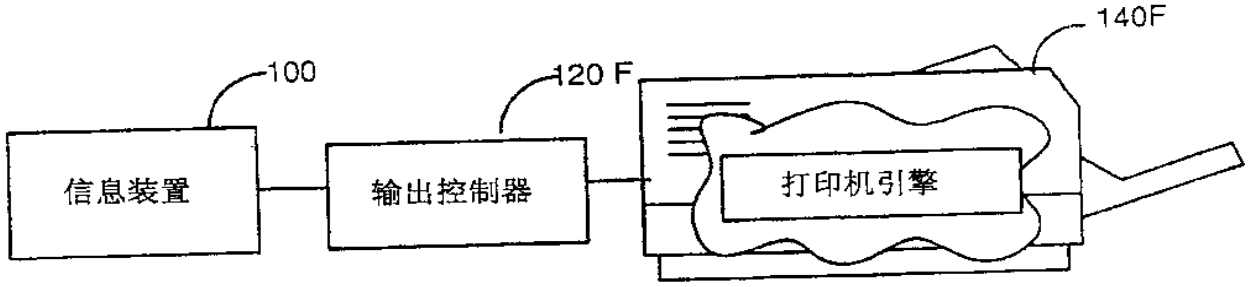

100
120 F
140F
信息装置
输出控制器
打印机引擎

图4F

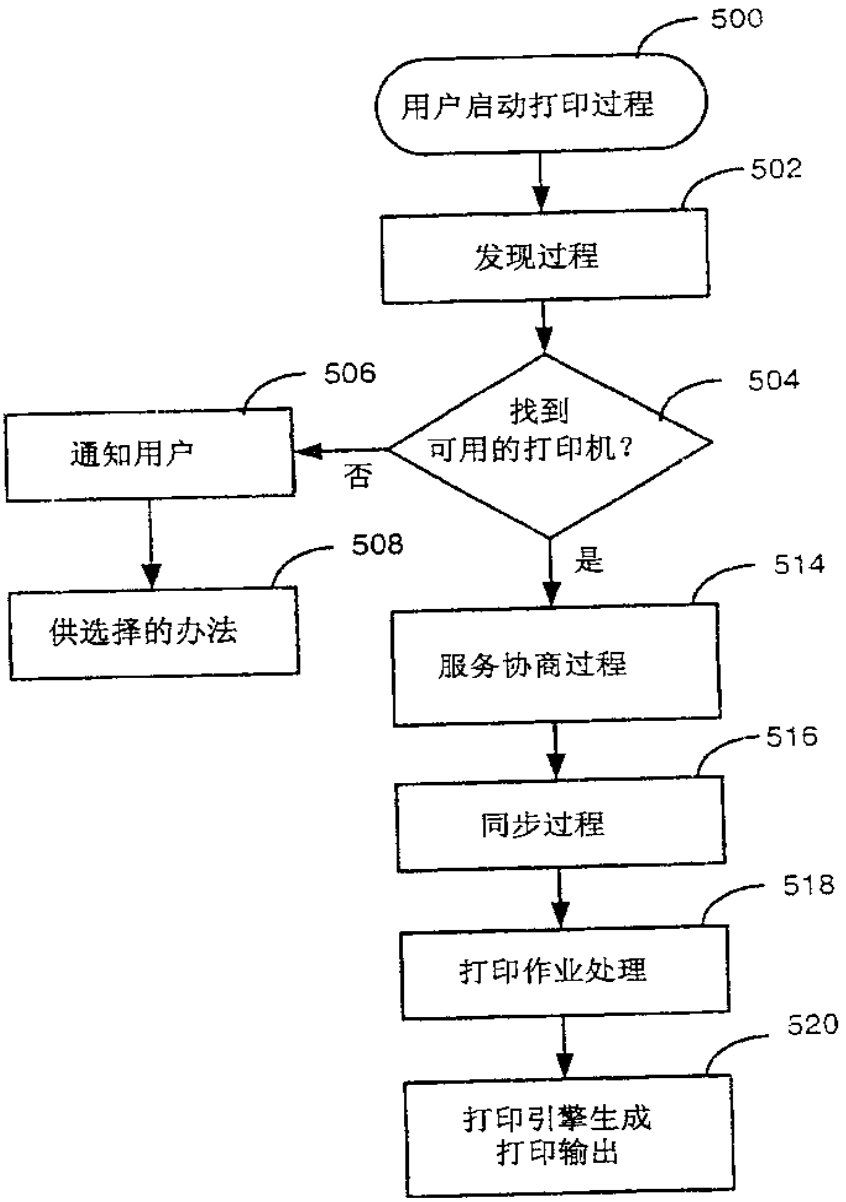

500
用户启动打印过程
502
发现过程
504
找到
可用的打印机？
否
506
通知用户
508
供选择的办法
是
514
服务协商过程
516
同步过程
518
打印作业处理
520
打印引擎生成
打印输出

图5

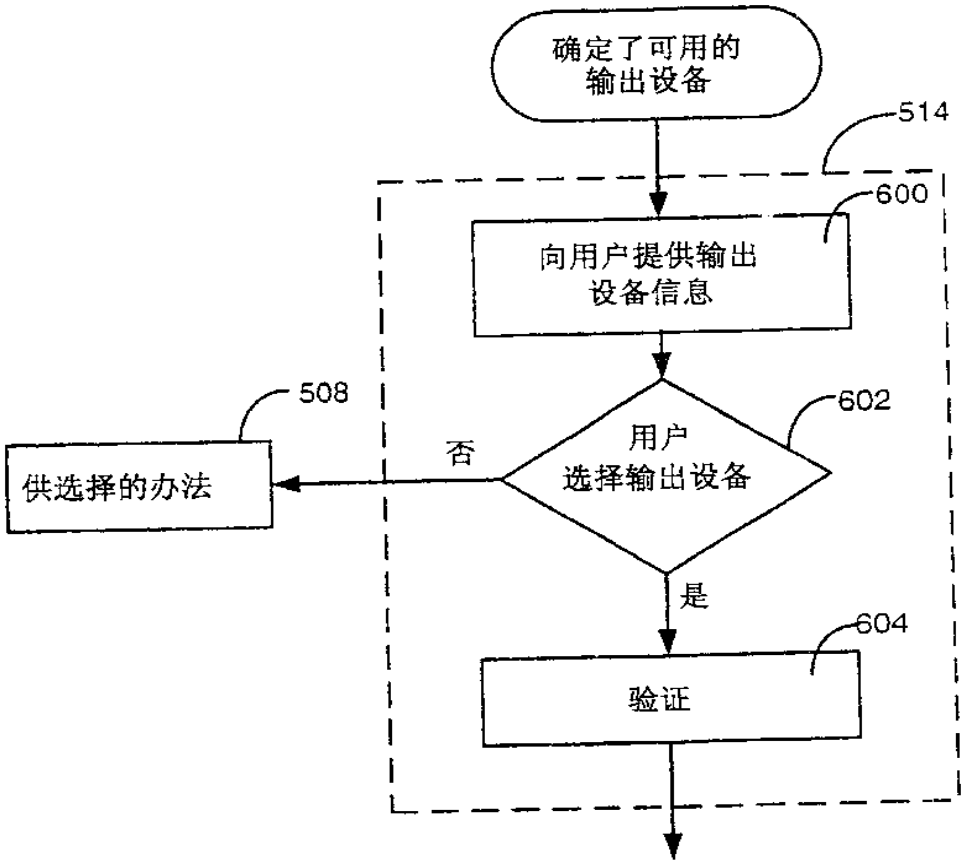


图6

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

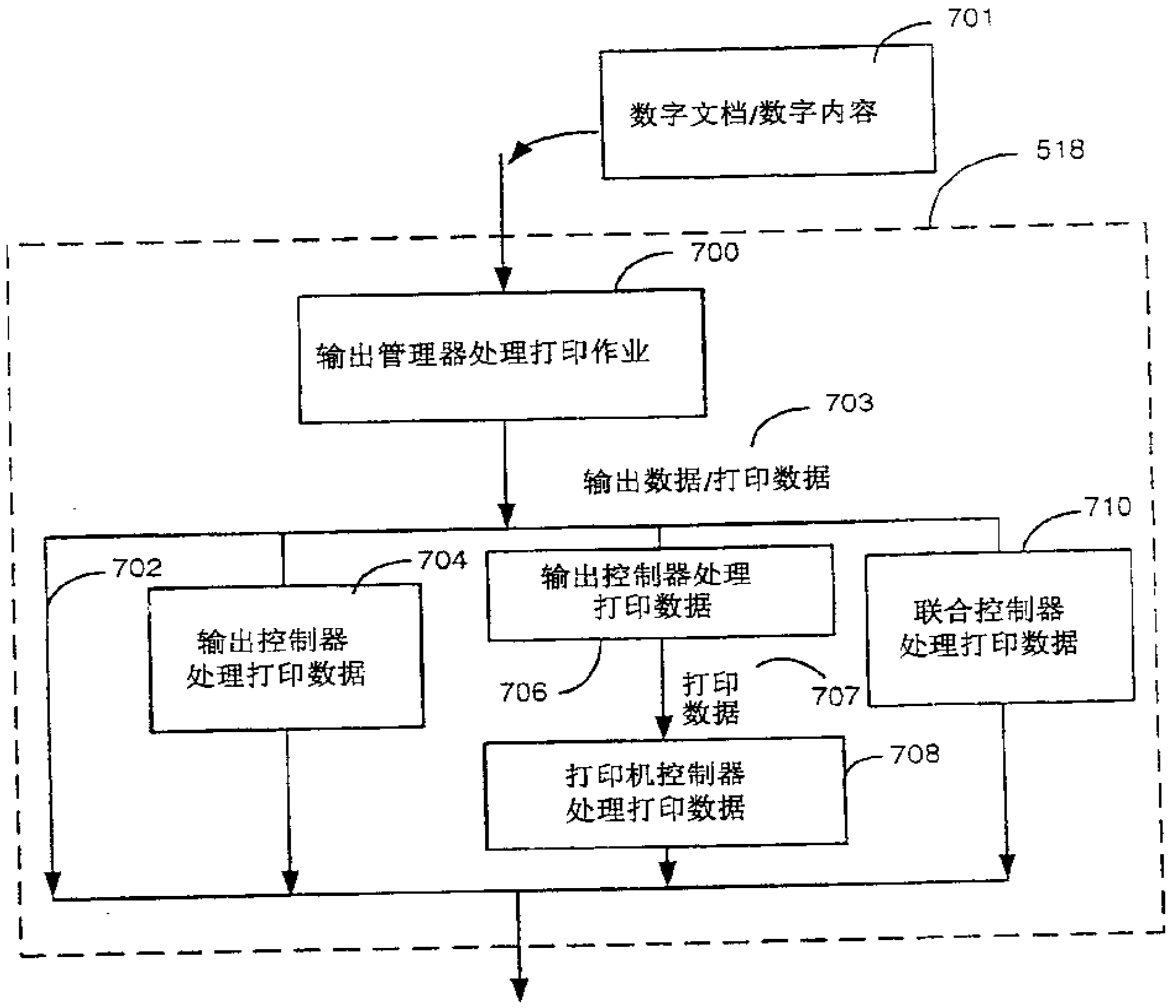

701
数字文档/数字内容
518
700
输出管理器处理打印作业
703
输出数据/打印数据
710
702
704
输出控制器处理打印数据
输出控制器处理打印数据
联合控制器处理打印数据
706
打印数据
707
708
打印机控制器处理打印数据

图7

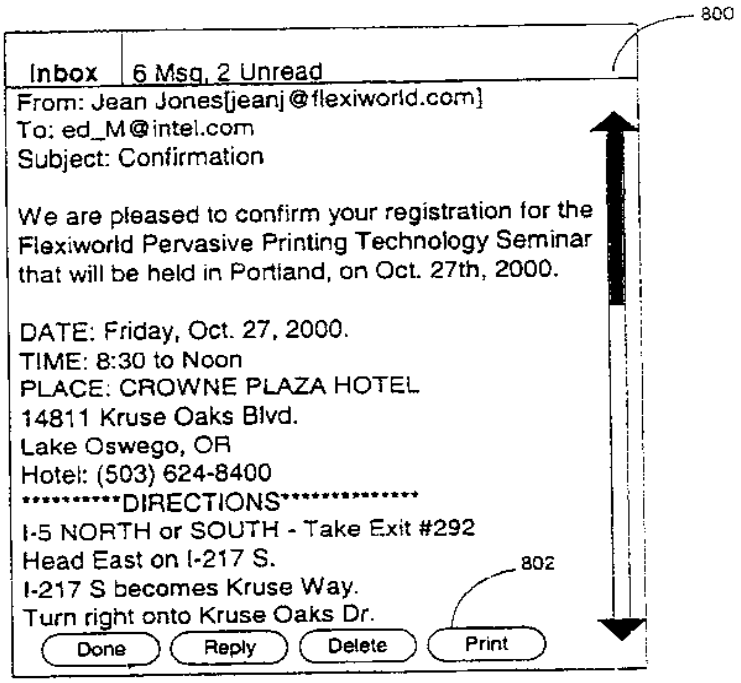


图8A

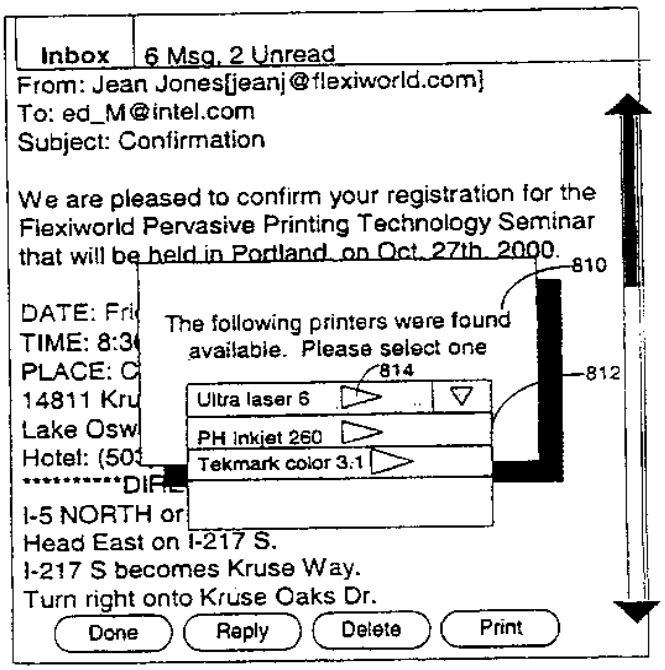


图8B

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

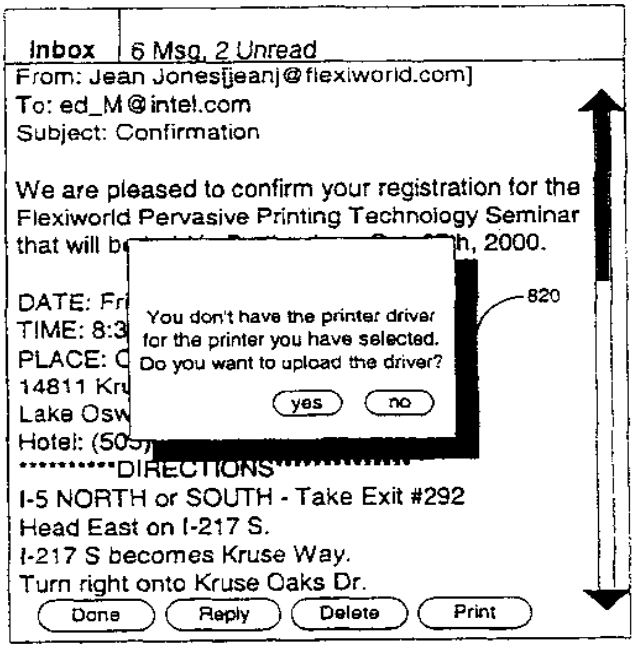


图8C

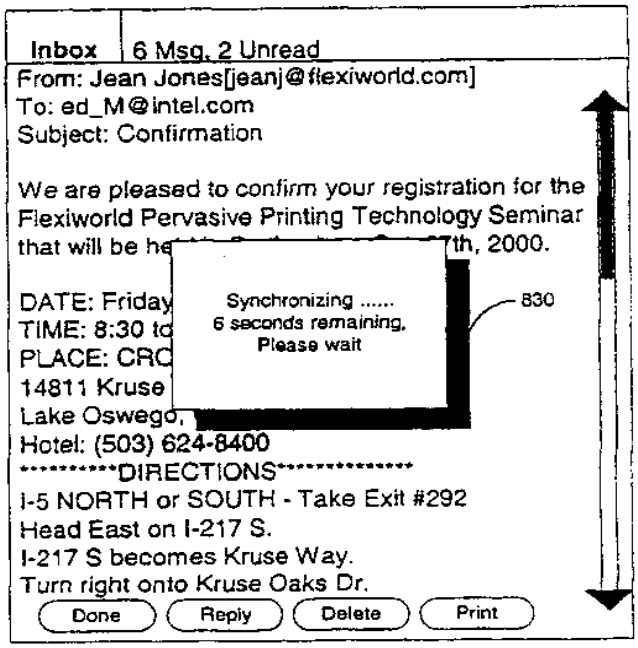


图8D

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

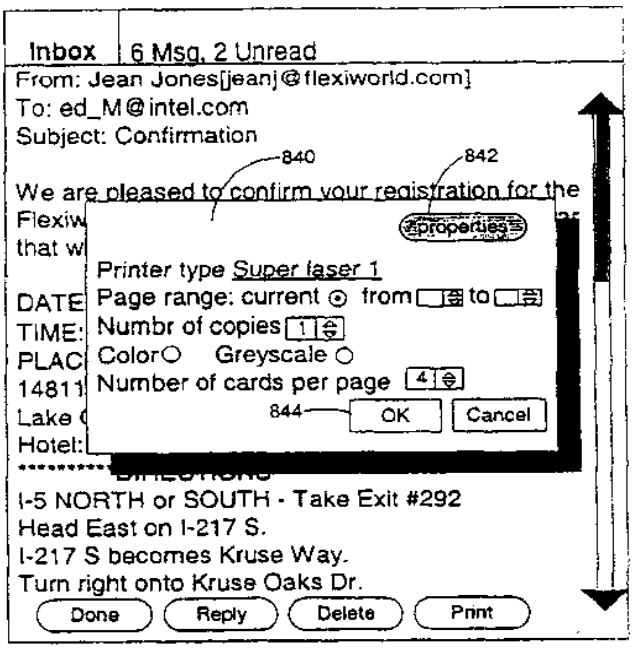


图8E

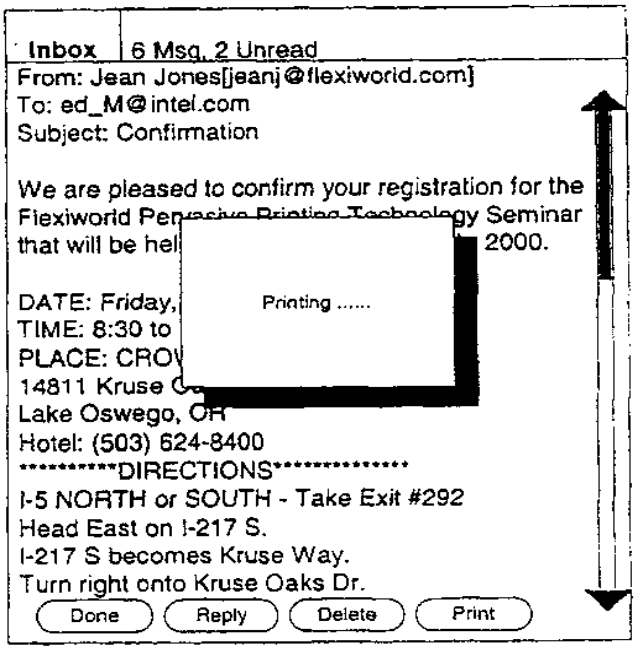


图8F

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

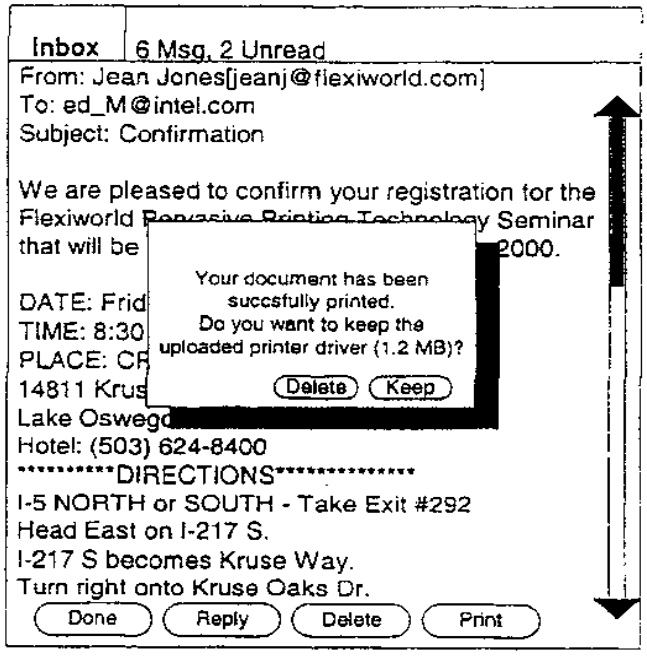


图8G

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

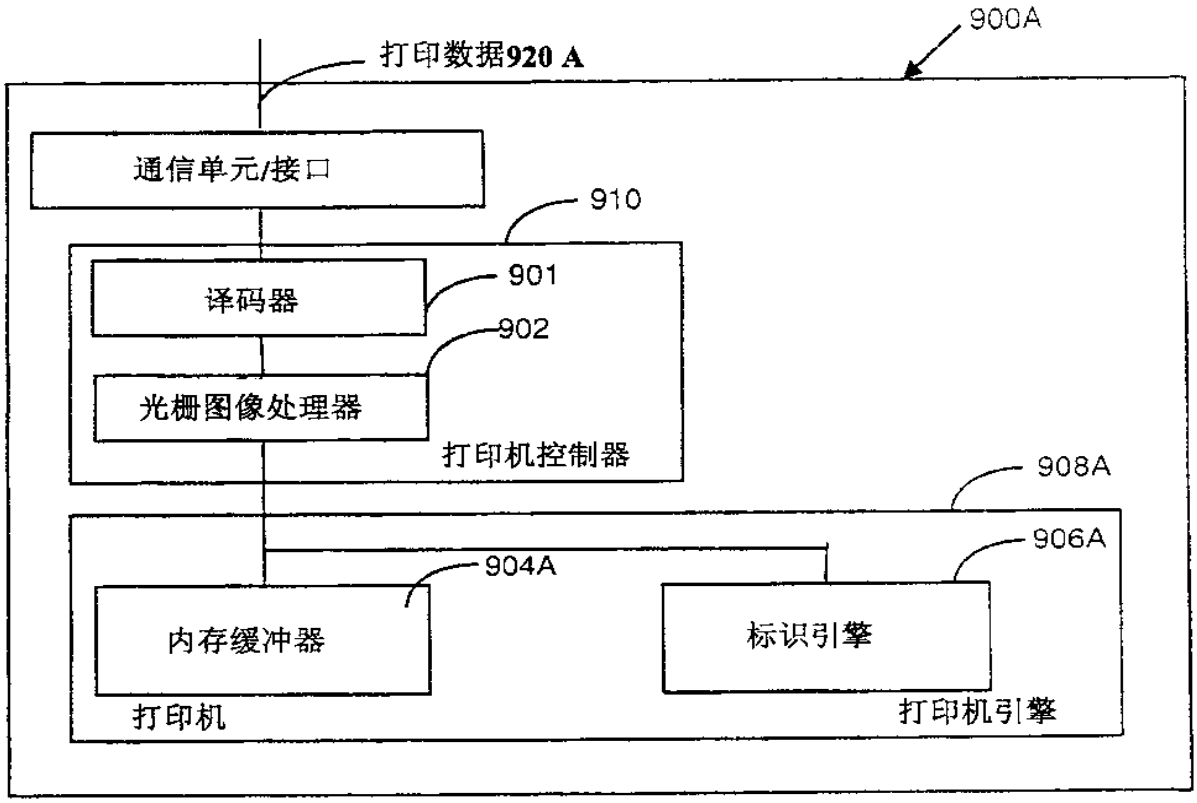

900A
打印数据920 A
通信单元/接口
910
译码器
901
902
光栅图像处理器
打印机控制器
908A
906A
904A
内存缓冲器
标识引擎
打印机
打印机引擎

图9A

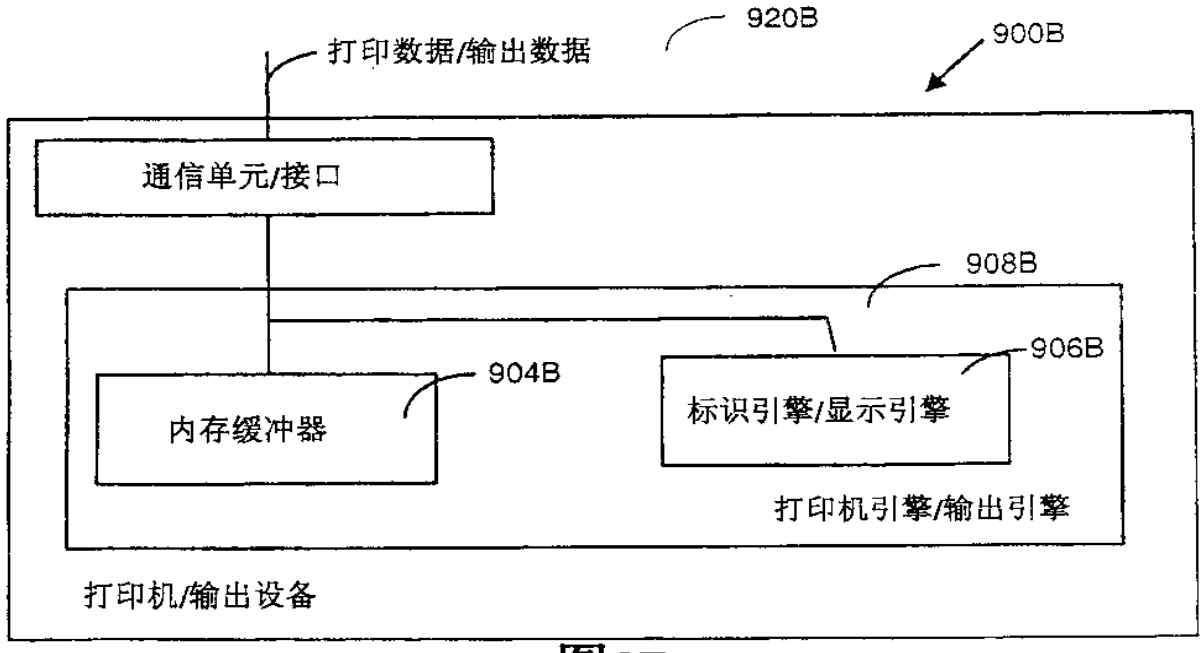

920B
900B
打印数据/输出数据
通信单元/接口
908B
906B
904B
内存缓冲器
标识引擎/显示引擎
打印机引擎/输出引擎
打印机/输出设备

图9B

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
RCE - 2nd and Subsequent Request	1820	1	1700	1700
		Total in USD ($)		**1700**

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	20196111
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	19-SEP-2014
Filing Date:	18-NOV-2001
Time Stamp:	18:55:02
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1700

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

RAM confirmation Number	5208
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Continued Examination (RCE)	20140919_RCE_FXT312.pdf	697595 c971005 7ca1 /0e33e08b92a65727446d4e 7854 6	no	3
Warnings:					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	20140919_Amendment_Accompanying_RCE_FXT312.pdf	184312 45 3d8cd64 6cc6e7487 38de 931 1 3d5 88b e9c84	no	28
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	20140919_IDS_FXT312.pdf	612935 d02ed9b9 2d5 702c40a6c833ae1 08c42119 20 8	no	5
Warnings:					
Information:					
4	Foreign Reference	FP1_CN100334577C.pdf	3971206 d8e2099984b0d3b2987d2c5c7d6b220a1 6cafa1	no	74
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30194 98dce97 101e4d41 1039de1 1edded79c41ac b88c	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	5496242		

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Lexmark v. Flexiworld

PTO/SB/06 (09-11)
Approved for use through 1/31/2014 OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 09/19/2014

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
Independent (37 CFR 1.16(h))	* 7	Minus	*** 7	= 0	x $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DIANIECE JACOBS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 06/18/2014	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	1	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,689, June 10, 2014, 59 pages.	☐
	2	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,695, June 10, 2014, 58 pages.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/Esther Benoit/	Date Considered	08/26/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 06/18/2014

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-06-18
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: August 19, 2014

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT
Examiner	:	Esther Benoit
Art Unit	:	2453
Confirmation No.:		5528

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

S i r :

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

In response to the Notice to File Corrected Application Papers dated August 12, 2014, applicant is submitting an Application Data Sheet which includes reference to the prior U.S. provisional application.

If the Examiner has any questions, or if a telephone interview would in any way advance issuance of the application, please contact the undersigned.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on August 19, 2014.

/Heidi Dutro/
Heidi Dutro

Respectfully submitted,

KOLISCH HARTWELL, P.C.

/Peter D. Sabido/
Peter D. Sabido
Registration No. 50353
Customer No. 23581
Attorney for Assignee
520 SW Yamhill Street, Suite 200
Portland, Oregon 97204-1324
Telephone: (503) 224-6655
Facsimile: (503) 972-9115

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	FXT312
	Application Number	
Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	William	Ho	Chang	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Vancouver	State/Province	WA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	3439 NE Sandy Blvd #267
Address 2	

City	Portland	State/Province	OR
Postal Code	97232	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Christina	Ying	Liu	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Santa Clara	State/Province	CA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	3439 NE Sandy Blvd #267
Address 2	

City	Portland	State/Province	OR
Postal Code	97232	Country i	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

PTO/AIA/14 (12-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	FXT312
	Application Number	
Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT	

☐ **An Address is being provided for the correspondence Information of this application.**			
Customer Number	23581		
Email Address		Add Email	Remove Email

Application Information:

Title of the Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT		
Attorney Docket Number	FXT312	**Small Entity Status Claimed** ☐	
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	10	**Suggested Figure for Publication (if any)**	1

Filing By Reference :

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country i

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	23581		

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	FXT312
	Application Number	
Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
09992413	Claims benefit of provisional	60252682	2000-11-20

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) [i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Remove

Application Number	Country [i]	Filing Date (YYYY-MM-DD)	Access Code [i] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	FXT312
	Application Number	
Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT	

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	Flexiworld Technologies, Inc.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	FXT312
	Application Number	
Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT	

Mailing Address Information:			
Address 1	3439 NE Sandy Blvd #267		
Address 2			
City	Portland	**State/Province**	OR
Country i	US	Postal Code	97232
Phone Number		Fax Number	
Email Address			

Additional Applicant Data may be generated within this form by selecting the Add button. Add

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country i		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button. Add

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	FXT312
	Application Number	
Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT	

Signature:

Remove

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications

Signature	/Peter D. Sabido/			Date (YYYY-MM-DD)	2014-08-19
First Name	Peter	Last Name	Sabido	Registration Number	50353

Additional Signature may be generated within this form by selecting the Add button. Add

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	19908609
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	19-AUG-2014
Filing Date:	18-NOV-2001
Time Stamp:	19:07:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Post Allowance Communication - Incoming	20140819_Response_to_Notice_to_File_Corrected_Application_Papers_FXT312.pdf	71876	no	1
Warnings:					
Information:					
2	Application Data Sheet	20140819_Application_Data_Sheet_FXT312.pdf	1561202	no	7
Warnings:					
Information:					
		Total Files Size (in bytes):	1633078		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 08/12/2014

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
BENOIT, ESTHER	
ART UNIT	**PAPER NUMBER**
2453	

MAIL DATE	DELIVERY MODE
08/12/2014	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Application No. : 09992413
Applicant : Chang
Filing Date : 11/18/2001
Date Mailed : 08/12/2014

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given two (2) months from the mail date of this Notice within which to respond. This time period for reply is extendable under 37 CFR 1.136(a) for only TWO additional MONTHS.

The application is not in compliance with 37 CFR 1.78, as indicated in the attachment. The consequences of failure to respond within the above-identified time period are set forth in the attachment.

Even if the Office has recognized a benefit claim and has entered it into the Office's database and included it on applicant's filing receipt, the benefit claim is not a proper benefit claim unless the reference in compliance with 37 CFR 1.78 is included, depending upon the application's filing date and as indicated in the attachment, in an application data sheet or in the first sentence(s) of the specification and all other requirements are met.

See attachment.

A copy of this notice MUST be returned with the reply. Please address response to "Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

/Anita Grimmage/
Publication Branch
Office of Data Management
(571) 272-4200

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

APPLICATION FILED PRIOR TO SEPTEMBER 16, 2012, NOT IN COMPLIANCE WITH 37 CFR 1.78

☐ The 37 CFR 1.78(a)(2) reference on the application data sheet or in the first sentence(s) of the specification does not indicate the relationship (continuation, division, continuation-in-part) to the prior U.S. nonprovisional application or international application designating the U.S. See document coded dated , listing application number(s) .

☐ The 37 CFR 1.78(a)(2) reference on the application data sheet or in the first sentence(s) of the specification following the title does not provide the U.S. nonprovisional application number (series code and serial number) or, with respect to an international PCT application designating the U.S., it provides the international application number or international filing date but not both. See document coded dated , in which the following is missing: .

☐ The 37 CFR 1.78(a)(2) reference on the application data sheet or in the first sentence(s) of the specification following the title shows an incorrect, incomplete, or illegible U.S. nonprovisional application number, international PCT application number, or international PCT filing date. See document coded dated , in which the following error was made: .

☐ The 37 CFR 1.78(a)(2) reference to the prior U.S. nonprovisional application or international application designating the U.S. is not present on an application data sheet or in the first sentence(s) of the specification following the title, thus removing the validating link under 35 U.S.C. 119(a)-(d) to a prior foreign application or under 35 U.S.C. 119(e) to a prior U.S. provisional application.

☐ The 37 CFR 1.78(a)(2) reference to the prior U.S. nonprovisional application or international application designating the U.S. is not present on an application data sheet or in the first sentence(s) of the specification following the title.

☒ The 37 CFR 1.78(a)(5) reference to the prior U.S. provisional application is not present on an application data sheet or in first sentence(s) of the specification following the title.

☐ The 37 CFR 1.78(a)(5) reference to the prior U.S. provisional application on an application data sheet or in first sentence(s) of the specification following the title does not provide the provisional application number (series code and serial number). See document coded dated , in which the following is missing: .

☐ The 37 CFR 1.78(a)(5) reference to the prior U.S. provisional application on an application data sheet or in first sentence(s) of the specification following the title shows an incorrect, incomplete, or illegible U.S. provisional application number. See document coded dated , in which the following error was made: .

☐ Other: .

HOW TO RESPOND

A proper response to this notice would include any one of: (1) a supplemental Application Data Sheet (ADS) pursuant to 37 CFR 1.76(c) which provides benefit information that complies with 37 CFR 1.78(a)(2) or 37 CFR 1.78(a)(5); (2) an amendment to the first sentence(s) of the specification which provides benefit information that complies with 37 CFR 1.78(a)(2) or 37 CFR 1.78(a)(5); or (3) a petition filed pursuant to the provisions of 37 CFR 1.78(a)(3) or 37 CFR 1.78(a)(6) if the benefit information from the document identified above by code and date does not accurately reflect the benefits under 35 U.S.C. 119(e), 120, 121 or 365(c) as claimed by applicant (a grantable petition would include either a supplemental ADS or an amendment to the first sentence(s) of the specification as required by 37 CFR 1.78(a)(3)(i) or 37 CFR 1.78(a)(6)(i)). Such amendments to the specification or supplemental ADS submission may be filed after payment of the issue fee if limited to informalities noted herein. See Waiver of 37 CFR 1.312 for Document Required by Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004).

WARNING: If Applicant fails to timely submit a proper response, the benefit information will be deleted and the patent will be printed without the benefit information present.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/19/2014

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

EXAMINER	
BENOIT, ESTHER	
ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 06/19/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

TITLE OF INVENTION: Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	09/19/2014

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590 06/19/2014

EDWARD B. ANDERSON
KOLISCH HARTWELL, P.C.
200 PACIFIC BUILDING
520 S.W. YAMHILL STREET
PORTLAND, OR 97204

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

TITLE OF INVENTION: Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	09/19/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
BENOIT, ESTHER	2453	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature Date

Typed or printed name Registration No.

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Lexmark v. Flexiworld

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	FXT312	5528

7590 06/19/2014

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PORTLAND, OR 97204

EXAMINER	
BENOIT, ESTHER	

ART UNIT	PAPER NUMBER
2453	

DATE MAILED: 06/19/2014

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Examiner-Initiated Interview Summary	Application No.	Applicant(s)	
	09/992,413	CHANG ET AL.	
	Examiner	Art Unit	
	ESTHER BENOIT	2453	

All participants (applicant, applicant's representative, PTO personnel):

(1) *ESTHER BENOIT*. (3)_____.

(2) *Peter Sabido (Reg. 50,353)*. (4)_____.

Date of Interview: *05 June 2014*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☒101 ☒112 ☐102 ☐103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *131,157,172 and 177*.

Identification of prior art discussed: *N/A*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The examiner contacted applicant(s)' representative to discuss correcting all 112, and 101 issues prior to issuing an allowance notice. An agreement was reached..

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/Esther Benoit/ Examiner, Art Unit 2453	

Notice of Allowability	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER BENOIT	Art Unit 2453	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *2/18/2014*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *131-199*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/24/13, 11/25/13, 3/13/14, 4/3/14, 4/28/14, 5/15/14, 6/9/14
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date *20140605* .
5. ☒ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/Esther Benoit/
Examiner, Art Unit 2453

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Peter Sabido (Reg. No. 50,353) on June 9, 2014.

Please replace the **Title** as follows:

~~[[Information Apparatus And Output Device For Selecting And Rendering Protected Digital Content On Demand, And Digital Content Service Over The Internet For Transmitting Audio/Video Content]]~~

Servers Over The Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers

Please replace the **Abstract** as follows:

~~Audio/video digital content services over the Internet for providing protected digital content on demand to information apparatus or output devices are herein disclosed and enabled. The protected digital content are encrypted and are device dependent or specific for rendering at smart phones, information pads, audio players, media controllers, televisions, among others. To illustrate, an information apparatus may include a touch sensitive screen, an operating system, and a client application for accessing selected digital content from a content service or store over the Internet. To access the digital content, the client application may send to the service authentication~~

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~~information, payment or subscription information, a reference to selected digital content, and identification information related to an output device. The service then generates encrypted device dependent output data associated with the output device for transmitting or streaming to the information apparatus, the output data may include com pressed data for transmission.~~

Digital content services provided over the Internet for transmitting or streaming protected digital content on demand to information apparatus or output devices are herein disclosed and enabled. The protected digital content is device dependent or device specific for rendering at a smart phone, information pad, audio player, media controller, televisions, among others. To illustrate, an information apparatus may include a touch sensitive screen and a client application for accessing selected digital content from a subscribed content service or content store provided by the service or store over the Internet. To access the selected digital content, the client application may send, to the service, authentication information, payment or subscription information, a reference to selected digital content, and device identification information. The service then generates encrypted device dependent output data associated with the device identification for transmitting or streaming to the information apparatus.

Please amend the claims as follows:

131. (Currently amended) A method of operating a digital content service for providing ~~output~~ **digital** content over a network that includes the Internet to an information apparatus for rendering at an output device, ~~the output device~~ **which is associated with the information apparatus, the output device includes** [[is]] at least one of a display device [[and]] **or** an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus, device dependent output data corresponding to the ~~output~~ **digital** content, the device dependent output data being device specific and being acceptable for rendering at the

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output device, the one or more servers being distinct and separate from the information apparatus and the output device, and

one or more server applications at the one or more servers for generating the device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, **at least part of** one or more pointers or references to one or more ~~output~~ **digital** content available at a content server for selection by a user at the information apparatus;

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including **information associated with** a pointer or reference to a selected ~~output~~ **digital content**, the pointer or the reference being **associated with a selection** ~~selected~~ by the user at the information apparatus from among the **at least part of one or more** pointers or references provided to the information apparatus by the one or more servers;

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device;

retrieving, by the one or more server applications, the selected ~~output~~ **digital content** from the content server employing, at least in part, the pointer or reference to the selected ~~output~~ **digital** content included in the content object received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on **at**

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least part of the selected ~~output~~ **digital** content, and

applying, by the one or more server applications, an encryption scheme on **at least part of** the selected ~~output~~ **digital** content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to the selected ~~output~~ **digital** content and having a relationship, at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering **at least part** of the selected ~~output~~ **digital** content at the output device**, which is associated with the information apparatus and which** [[that]] is at least one of a display device [[and]] **or** an audio output device.

132. (Currently amended) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus, one or more pointers or references to the one or more ~~output~~ **digital** content for selection; and

receiving, by the client application, the selected ~~output~~ **digital** content over the graphical user interface from among the one or more pointers or references to the one or more ~~output~~ **digital** content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected ~~output~~ **digital content**.

135. (Currently amended) The method of claim 131 in which the output device **which is associated with the information apparatus is wired connected to the information apparatus** ~~includes a display controller unit for displaying at least part of the selected output content at the output device~~.

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136. (Currently amended) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

delivering, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers to the output device for rendering of at least part of the ~~output~~ **selected digital** content.

137. (Currently amended) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes ~~one or more~~ **at least one** of a palmtop computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

142. (Currently amended) The method of claim 131 in which the output device**, which is associated with the information apparatus,** ~~is part of~~ **includes at least one of** a television**, an audio output device, or a music output device, individually or in any combination**.

144. (Currently amended) The method of claim 131 in which the output device is **at least one of the following, individually or in any combination:**

(1) an audio output device and **wherein** the device dependent output data includes audio data**;**

(2) a display device or a projection device and wherein the device dependent output data includes video data; or

(3) a television and wherein the device dependent output data includes audio data and video data.

145. (Currently amended) The method of claim 131 in which the output device **object includes information corresponding to device identification information, model information, brand information, registration information, IP address**

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information, individually or in any combination. ~~is a display device or a projection device and the device dependent output data includes video data.~~

146. (Currently amended) The method of claim 131 in which the output device or the information apparatus decodes and decompresses **at least part of** the device dependent output data for rendering **at least part of** the ~~output~~ **selected digital** content.

147. (Currently amended) The method of claim 131 in which generating **at least part of** the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining digital content acceptable for rendering at an output device, the output device being at least one of a display device and an audio output device, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

installing at least part of the client application for expanding functionalities of the information apparatus;

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and

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separate from the information apparatus and the output device, and in dependence of successful authentication of the user, enabling the user access to a digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the client application and from a user of the information apparatus via the graphical user interface over the touch sensitive screen, **information associated with** a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least part of a content object and at least part of an output device object to the one or more servers over a network, the content object being associated with the selected digital content and including a pointer or reference to the selected digital content, and the output device object including information related to the output device;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, **at least part of** the device dependent output data received from the one or more servers related, at least in part, to the information included in the output device object delivered from the information apparatus, and the device dependent output data received from the one or more servers further including an encryption scheme for ensuring security of the device dependent output data that is device specific for rendering at the output device; **and**

decoding, at the information apparatus, the device dependent output data received from the one or more servers **for rendering of at least part of the selected digital content**~~; and~~

~~rendering of the at least part of the selected digital content at the output device~~.

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149. (Currently amended) The apparatus of claim 148 wherein the information apparatus is further operable for[[:]]

~~establishing a communication channel between the information apparatus and the output device; and~~

receiving, at the information apparatus, one or more attributes corresponding to the output device **from the output device** ~~over the communication channel~~.

152. (Currently amended) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering the ~~output~~ **selected digital** content.

157. (Currently amended) A method for rendering, at one or more output devices, device dependent output data, the device dependent output data corresponding to digital content and accessible, at least partly, by an information apparatus over a network that includes the Internet, the one or more output devices being at least one of a display device [[and]] **or** an audio output device, the information apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and the one or more **servers over a network that includes the Internet** ~~output devices~~;

receiving, at the information apparatus over the **network** ~~connection~~ from the one or more **servers** ~~output devices~~, **one or more pointers or references to digital content that is accessible, at least partly, by the information apparatus** ~~attributes including information corresponding to the one or more output devices~~;

delivering, from the information apparatus, at least partially a content object and one or more output device objects to one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus and the one or more output devices, the content object ~~being associated with~~

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~~the digital content~~ **including information related to a pointer or reference to the digital content, the pointer or the reference being related to a selection by the user, at the information apparatus, from among the one or more pointers or references provided, at least in part, to the information apparatus by the one or more servers**, and the one or more output device objects including information corresponding to the one or more output devices;

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content, the device dependent output data corresponding to the digital content further having a relationship, at least in part, to the information corresponding to the one or more output devices included in the one or more output device objects delivered from the information apparatus to the one or more servers over the network, and the device dependent output data corresponding to the digital content further including an encryption scheme that includes security keys for ensuring security of the digital content that is acceptable to the one or more output devices for rendering**.** ~~; and~~

~~transmitting, by the information apparatus, at least part of the device dependent output data corresponding to the digital content over the connection for rendering, at the one or more output devices, of at least part of the digital content that includes at least one of an audio content or a video content.~~

158. (Currently amended) The method of claim 157 in which the **one or more output devices correspond, at least partly, to** ~~output device is part of~~ a television **and the method further comprises:**

establishing a connection between the information apparatus and the one or more output devices; and

transmitting, by the information apparatus, at least part of the device

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dependent output data corresponding to at least part of the digital content over the connection for rendering at the one or more output devices.

161. (Currently amended) The method of claim 157 in which the one or more output devices **correspond, at least in part, to** [[is]] an audio output device and the digital content includes audio content. ~~And the method further comprising transmitting over the connection at least part of an audio content to the audio output device for rendering at least part of the digital content.~~

165. (Currently amended) The method of claim 157 in which **the one or more output device objects include information corresponding to device identification information, model information, brand information, registration information, IP address information, individually or in any combination.** ~~the information apparatus further comprising a touch sensitive screen for interacting with a user, and one or more wireless communication units for wireless communication.~~

166. (Currently amended) The method of claim 157 further comprising decoding and decompressing at least part of the device dependent output data corresponding to the digital content at the information apparatus **or at the one or more output devices**.

167. (Currently amended) An output system for rendering digital content, the output system comprising:

an information apparatus for receiving device dependent output data from one or more servers over a network, the device dependent output data corresponding to at least part of the digital content that is device specific and is acceptable for rendering at the output system;

an output device that is at least one of a display device and an audio output device for rendering the device dependent output data;

a display screen;

an operating system;

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a client application having a graphical user interface over the display screen for interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system enables operations for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, ~~at the information apparatus~~ **by the client application** and via the graphical user interface over the display screen, the one or more pointers or references to the one or more digital content for selection by the user; and

receiving, ~~at the information apparatus and~~ from a user of the **output system** ~~information apparatus~~ via the graphical user interface over the display screen, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content, and an output device object that includes information related to at least part of the output system;

delivering, from the output system, at least part of the content object and at least part of the output device object to the one or more servers, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content, for enabling the one or more servers configured to retrieve at least part of the selected digital content from the content server;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing a digital content service provided by the one or

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more servers;

receiving, at the output system, the device dependent output data from the one or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information related to at least part of the output system included in the output device object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device **dependent** ~~specific~~ and is acceptable to the output system for rendering;

~~passing the device dependent output data from the information apparatus to the output device for rendering at least part of the selected digital content;~~

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the at least one of a display device [[and]] **or** an audio output device included in the output system; and

rendering by the at least one of a display device [[and]] **or** an audio output device included in the output system, at least part of the selected digital content that includes, **at least in part**, video or audio content.

168. (Currently amended) The system of claim 167 in which **the output device object includes a device identification information or an address, and** obtaining of the output device object includes obtaining information from one or more **of the following:** (1) user input, (2) a communication with an output device, **(3) one or more output devices, (4)** [[(3)]] a parameter stored in the output system, and [[(4)]] **(5)** a default parameter or preference associated with the output system, individually or in any combination.

171. (Currently amended) The system of claim 167 wherein the output system further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at an output device, the conforming including **one or more of** a decoding operation, **a**

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decompression operation, or [[and]] an encoding operation**, individually or in any combination**.

172. (Currently amended) A system for transmitting to an information apparatus over a network that includes the Internet, at least part of device dependent output data corresponding to digital content acceptable for rendering at an output device, the output device associated with the information apparatus is at least one of a display device and an audio output device, the system comprising:

one or more servers that are distinct and separate from the information apparatus and the output device, the one or more servers being operable to receive a content object and at least part of an output device object, the content object ~~being associated with the digital content~~ **including at least a pointer or reference to the digital content, the pointer or the reference being related to a selection by the user from among one or more pointers or references to digital content provided, at least in part, to the information apparatus by the one or more servers,** [[and]] the output device object having information corresponding to the output device, the one or more servers being further operable to receive, from the information apparatus, security or authentication information associated with a user operating the information apparatus for authentication of the user, and the one or more servers being further operable to receive, from the information apparatus, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the information apparatus;

one or more server applications on the one or more servers for generating the device dependent output data, the device dependent output data having a relationship, at least in part, to the information related to the output device, and the generating of the device dependent output data includes (1) applying a compression operation on **at least part of** the digital content, and (2) applying an encryption scheme with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering;

one or more memory or storage units at the one or more servers

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configured to store at least part of the one or more server applications; and

a client application for interacting with a user at the information apparatus via a graphical user interface over a display screen associated with the information apparatus, the client application facilitated at least partly by an operating system operating at the information apparatus; and

wherein, the client application at the information apparatus communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to **at least part of** the digital content, and the client application delivers **at least part of** the received device dependent output data to the output device for rendering at least part of the digital content.

173. (Currently amended) The system of claim 172 wherein the client application at the information apparatus is further operable for decoding [[the]] at least part of the device dependent output data received from the one or more servers for rendering at the output device at least part of the digital content.

177. (Currently amended) In a computer memory or storage device, containing server applications executable by a processor at a server system for generating device dependent output data acceptable for rendering at one or more output devices, the one or more output devices being display devices and/or audio output devices, the device dependent output data for transmitting, at least partly, to an information apparatus, the server system including one or more servers that are accessible by the information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the one or more output devices, the server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the information apparatus, one or more content objects, the one or more content objects being associated with the digital content, including **one or more pointers or references to** ~~a pointer or reference to the~~

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digital content **corresponding to one or more selection by a user at the information apparatus from among one or more pointers or references provided, at least in part, to the information apparatus by the server system**;

receive, by the server system from the information apparatus, one or more output device objects, the one or more output device objects having information related to the one or more output devices;

receive, by the server system and from the information apparatus, security or authentication information associated with a user operating the information apparatus for authentication of the user;

receive, by the server system and from the information apparatus, payment or subscription information for accessing a digital content service provided by the server system;

retrieve, by the server system, the digital content from a content server employing, at least in part, the **one or more pointers or references** ~~pointer or reference~~ to the digital content included in the one or more content objects received from the information apparatus;

generate, by the server system, the device dependent output data associated with the digital content for rendering at the one or more output devices, the device dependent output data associated with the digital content having a relationship, at least in part, to the information related to the one or more output devices included in the one or more output device objects received **by the server system** ~~from the information apparatus~~;

apply, by the server system, a compression operation on the digital content for transmitting the device dependent output data associated with the digital content;

apply, by the server system, an encryption scheme on the digital content for ensuring security of the digital content that is device **dependent** ~~specific~~ for rendering; and

transmit, by the server system, at least part of the device dependent output data associated with **at least part of** the digital content to the information apparatus over the network that includes the Internet subsequent to **having received** ~~receiving~~ the security

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or authentication information, the payment or subscription information, the one or more content objects, and the one or more output device objects from the information apparatus.

180. (Currently amended) In a computer memory **or storage device**, containing client software executable by a processor at an information apparatus for obtaining device dependent output data acceptable for rendering at an output device associated with the information apparatus, the output device is at least one of a display device and an audio output device, the information apparatus including a graphical user interface over a display screen of the information apparatus for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content for rendering, the computer memory **or storage device** containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network;

software executable at the information apparatus for providing over the graphical user interface at the display screen of the information apparatus, one or more pointers or references to the digital content for selection by a user of the information apparatus; and

software executable at the information apparatus for receiving a selected digital content from the user of the information apparatus via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content;

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an output device object to the one or more servers that is distinct and separate from the information apparatus and the output device, the ~~document~~ content object being

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associated with the selected digital content, and the output device object including information related to the output device, the content object and the output device object being required at the one or more servers for generating **at least part of** device dependent output data corresponding **at least partly** to the selected digital content and acceptable for rendering at the output device;

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network, security or authentication information associated with the user operating the information apparatus for authentication of the user;

software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the output device, the device dependent output data corresponding**, at least in part,** to the selected digital content and having a relationship, at least in part, to the information related to the output device included in the output device object delivered from the information apparatus to the one or more servers over the network, and the device dependent output data further including an encryption scheme ~~that includes security keys~~ for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the device dependent output data received from the one or more servers;

~~client~~ software executable at the information apparatus for decompressing at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for delivering at least part of the decoded and decompressed device dependent output data to the output device for rendering of the selected digital content.

181. (Currently amended) The computer memory **or storage device** of claim 180 further comprising software executable at the information apparatus for establishing a communication channel between the information apparatus and the output device.

182. (Currently amended) The computer memory **or storage device** of claim 180

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further comprising software executable at the information apparatus for encoding at least part of the decoded device dependent output data into a format or language acceptable for delivering to the output device.

183. (Currently amended) The computer memory **or storage device** of claim 180 in which the information apparatus is a wireless information apparatus and includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

184. (Currently amended) The computer memory **or storage device** of claim 180 in which the output device is an audio output device and the device dependent output data includes audio data, and wherein a connection between the information apparatus and the output device includes a wired connection.

185. (Currently amended) The computer memory **or storage device** of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Currently amended) The computer memory **or storage device** of claim 180 in which the output device is part of a television.

187. (Currently amended) The computer memory **or storage device** of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

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188. (Currently amended) The apparatus of claim 148 in which the output device is associated with the information apparatus and is **wire** connected to the information apparatus~~. by a wire connection.~~

190. (Currently amended) The memory or storage device of claim 177 in which the one or more content objects received from the information apparatus at the server system include **at least part of** the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to store **at least part of** the received digital content at a server.

192. (Currently amended) The system of claim 172 in which the **one or more content objects** ~~content object~~ **further** includes **at least part of** the digital content for storing at the content server.

194. (Currently amended) The system of claim 167 **further enables operations for delivering at least part of device dependent output data from the information apparatus to an output controller associated with a television for rendering at least part of the selected digital content at the television.** ~~In which the delivering the device dependent output data to the output device includes delivering the device dependent output data to an output controller associated with the output device.~~

199. (Currently amended) The method of claim 157 in which **the information apparatus includes a wireless communication unit and** the connection **between the information apparatus and the one or more servers over a network that includes the Internet** includes a wireless connection **over the wireless communication unit**.

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Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

The closest prior arts, Roustaei and Davis do not explicitly teach the subject matter of claim 131 as amended. In particular, Roustaei discloses a method of operating a digital content service for providing output content over a network that includes the Internet to an information apparatus for rendering at an output device ([0015]-[0017], cellular phone), the output device is at least one of a display device and an audio output device ([0015]-[0017], cellular phone), the digital content service system including,

one or more servers for providing, to the information apparatus, device dependent output data corresponding to the output content, the device dependent output data being device specific and being acceptable for rendering at the output device, the one or more servers being distinct and separate from the information apparatus and the output device ([0008]), and

one or more server applications at the one or more servers for generating the device dependent output data ([0008]), the digital content service method comprising:

generating the device dependent output data at the one or more servers with the one or more server applications ([0008]), the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on the selected output content ([0011], MPEG compression), and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering of the selected output

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content at the output device that is at least one of a display device and an audio output device ([0008], [0015]-[0017], allowing voice transmissions using a cellular phone);

Roustaei does not explicitly teach:

ensuring security of the output content;

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection at the information apparatus;

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content;

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device;

retrieving, by the one or more server applications, the selected output content from the content server employing, at least in part, the pointer or reference to the

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selected output content included in the content object received from the information apparatus;

applying, by the one or more server applications, an encryption scheme on the selected output content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to the selected output content and having a relationship at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network;

However, Davis teaches:

ensuring security of the output content ([0038], using authentication information);

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user ([0038], user authentication information), and, in dependence of successful authentication of the user, enabling the user access to the digital content service ([0038], the user is authenticated to print content);

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service ([0038], authentication information related to user group (subscription));;

providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for

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selection at the information apparatus ([0025]-[0029] and [0038], print jobs referenced by server printer);

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content ([0025]-[0029] and [0039], print jobs received by server printer);

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device ([0031], printer identifier);

retrieving, by the one or more server applications, the selected output content from the content server employing, at least in part, the pointer or reference to the selected output content included in the content object received from the information apparatus ([0025]-[0029] and [0039], print jobs being referenced by server printer);

applying, by the one or more server applications, an encryption scheme on the selected output content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device ([0039], authentication), the generated device dependent output data corresponding to the selected output content and having a relationship at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network ([0031] and [0039]).

Roustaei and of Davis do not explicitly teach the feature of: 'the content object including **information associated with** a pointer or reference to a selected **digital**

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content, the pointer or the reference being **associated with a selection** by the user at the information apparatus from among the **at least part of one or more** pointers or references provided to the information apparatus'.

Note: An updated search has not yielded any additional reference(s) which disclose the features not taught by Roustaei and of Davis. Therefore, the claims are indicated as allowable for this reason.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ESTHER BENOIT whose telephone number is (571)270-3807. The examiner can normally be reached on Monday through Friday between 7:30 a.m and 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Krista M. Zele can be reached on 571-272-7288. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.Information regarding the status of an application may be obtained from the Patent

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Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E.B./
Examiner, Art Unit 2453
June 10, 2014

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Examiner-Initiated Interview Summary	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER BENOIT	Art Unit 2453	

All participants (applicant, applicant's representative, PTO personnel):

(1) *ESTHER BENOIT*. (3)_____.

(2) *Peter Sabido (Reg. 50,353)*. (4)_____.

Date of Interview: *05 June 2014*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.
If Yes, brief description: _____.

Issues Discussed ☒101 ☒112 ☐102 ☐103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *131,157,172 and 177*.

Identification of prior art discussed: *N/A*.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The examiner contacted applicant(s)' representative to discuss correcting all 112, and 101 issues prior to issuing an allowance notice. An agreement was reached..

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/Esther Benoit/ Examiner, Art Unit 2453	

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	ESTHER BENOIT	2453

CPC					
Symbol				Type	Version
H04L		67	/ 2828	I	2013-01-01
G06F		3	/ 126	F	2013-01-01
G06F		3	/ 1204	I	2013-01-01
G06F		3	/ 1292	I	2013-01-01
H04L		12	/ 2809	A	2013-01-01
G06F		3	/ 1288	I	2013-01-01
H04L		67	/ 16	A	2013-01-01
G06F		3	/ 1247	I	2013-01-01
G06Q		20	/ 102	I	2013-01-01
G06Q		40	/ 00	I	2013-01-01
H04L		67	/ 28	I	2013-01-01
H04L		12	/ 2834	A	2013-01-01
H04L		2012	/ 2849	A	2013-01-01
H04L		67	/ 04	A	2013-01-01
H04L		12	/ 2838	A	2013-01-01
H04L		12	/ 2805	I	2013-01-01
H04L		67	/ 303	I	2013-01-01
H04L		2012	/ 285	A	2013-01-01
H04L		67	/ 2823	I	2013-01-01
H04L		12	/ 2812	I	2013-01-01

CPC Combination Sets						
Symbol				Type	Set	Ranking	Version
			/				
			/				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER BENOIT/ Examiner.Art Unit 2453	6/10/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20140605

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	ESTHER BENOIT	2453

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
709	217	G 0 6 F 15 / 16 (2006.01.01)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER BENOIT/ Examiner.Art Unit 2453	6/10/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

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	ESTHER BENOIT	2453

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		28		55		82		109	6	136	33	163	60	190
	2		29		56		83		110	7	137	34	164	61	191
	3		30		57		84		111	8	138	35	165	62	192
	4		31		58		85		112	9	139	36	166	63	193
	5		32		59		86		113	10	140	37	167	64	194
	6		33		60		87		114	11	141	38	168	65	195
	7		34		61		88		115	12	142	39	169	66	196
	8		35		62		89		116	13	143	40	170	67	197
	9		36		63		90		117	14	144	41	171	68	198
	10		37		64		91		118	15	145	42	172	69	199
	11		38		65		92		119	16	146	43	173		
	12		39		66		93		120	17	147	44	174		
	13		40		67		94		121	18	148	45	175		
	14		41		68		95		122	19	149	46	176		
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	17		44		71		98		125	22	152	49	179		
	18		45		72		99		126	23	153	50	180		
	19		46		73		100		127	24	154	51	181		
	20		47		74		101		128	25	155	52	182		
	21		48		75		102		129	26	156	53	183		
	22		49		76		103		130	27	157	54	184		
	23		50		77		104	1	131	28	158	55	185		
	24		51		78		105	2	132	29	159	56	186		
	25		52		79		106	3	133	30	160	57	187		
	26		53		80		107	4	134	31	161	58	188		
	27		54		81		108	5	135	32	162	59	189		

(Assistant Examiner)	(Date)	Total Claims Allowed: 69	
/ESTHER BENOIT/ Examiner.Art Unit 2453	6/10/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5

U.S. Patent and Trademark Office — Part of Paper No. 20140605

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8630000		2014-01-14	Chang et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 03/13/2014	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

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Examiner Signature	/Esther Benoit/	Date Considered	06/05/2014

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Lexmark v. Flexiworld

Receipt date: 03/13/2014	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

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☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-03-13
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark v. Flexiworld

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	3629493		1971-12-21	Morgenfruh	
	2	3833297		1974-09-03	Swartz	
	3	3848856		1974-11-19	Reeber et al.	
	4	4262301		1981-04-14	Erlichman	
	5	4266863		1981-05-12	Hollingsworth et al.	
	6	4291956		1981-09-29	Vogelgesang	
	7	4291957		1981-09-29	Hollingsworth	
	8	4301599		1981-11-24	Leay	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 04/03/2014	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	9	4335955		1982-06-22	Lopata	
	10	4340905		1982-07-20	Balding	
	11	4360264		1982-11-23	Baker et al.	
	12	4417792		1983-11-29	Martin, geb. Boser	
	13	4428001		1984-01-24	Yamamura et al.	
	14	4431282		1984-02-14	Martin geb. Boser	
	15	4435059		1984-03-06	Gerber	
	16	4495490		1985-01-22	Hopper et al.	
	17	4539585		1985-09-03	Spackova et al.	
	18	4541010		1985-09-10	Alston	
	19	4553835		1985-11-19	Morgan, Jr.	

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	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	20	4580880		1986-04-08	Watson	
	21	4602280		1986-07-22	Maloomian	
	22	4603330		1986-07-29	Horne et al.	
	23	4758881		1988-07-19	Laspada	
	24	4956665		1990-09-11	Niles	
	25	4958220		1990-09-18	Alessi et al.	
	26	4979032		1990-12-18	Alessi et al.	
	27	5257097		1993-10-26	Pineau et al.	
	28	5303342		1994-04-12	Edge	
	29	5479206		1995-12-26	Ueno et al.	
	30	5568595		1996-10-22	Yosefi et al.	

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Lexmark v. Flexiworld

	31	5619257		1997-04-08	Reele et al.	
	32	5644662		1997-07-01	Vuylsteke	
	33	5664243		1997-09-02	Okada et al.	
	34	5675717		1997-10-07	Yamamoto	
	35	5739928		1998-04-14	Scott	
	36	5757952		1998-05-26	Buytaert et al.	
	37	5802314		1998-09-01	Tullis et al.	
	38	5838320		1998-11-17	Matthews III et al.	
	39	5880858		1999-03-09	Jin	
	40	5937112		1999-08-10	Herregods et al.	
	41	5946031		1999-08-31	Douglas	

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	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	42	5946110		1999-08-31	Hu et al.	
	43	5953546		1999-09-14	Okada et al.	
	44	5960162		1999-09-28	Yamamoto	
	45	6006265		1999-12-21	Rangan et al.	
	46	6069707		2000-05-30	Pekelman	
	47	6087060		2000-07-11	Chase et al.	
	48	6101291		2000-08-08	Arney et al.	
	49	6215494		2001-04-10	Teo	
	50	7986298		2011-07-26	Dulaney et al.	
	51	8086961		2011-12-27	Saeki et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20070133073		2007-06-14	Shida et al.	
	2	20080007482		2008-01-10	Morioka	
	3	20080218776		2008-09-11	Takami et al.	
	4	20090290182		2009-11-26	Hashimoto et al.	
	5	20140082604		2014-03-20	Chang et al.	

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☐ A certification statement is not submitted herewith.

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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-04-03
Name/Print	Peter D. Sabido	Registration Number	50353

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S122	89	"5613124"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2014/05/27 07:45
S123	3780	("713".clas. or "726".clas.) and (printer server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2014/06/05 11:25
S124	18	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2014/06/05 11:25
S125	850	"455".clas. and (touch near2 (screen or pad)) and (install$4 or add$4 or download$4) near2 (software or application or app) and (payment or subscription) and (job or task or workflow) and (authenticat$4 or authoriz$6 or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2014/06/05 11:27
S126	26700	("713".clas. or "726".clas. or "380".clas.) and (printer) and (pointer or reference)	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:28
S127	5867	("713".clas. or "726".clas. or "380".clas.) and (printer) and ((pointer or reference) (user or client))	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:29
S128	11666	(select$4 or choos$4) near3 ((pointer or reference) (user or client))	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:37
S129	18716	((select$4 or choos$4) near3 (pointer or reference)) (user or client)	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:37
S130	12567	((select$4 or choos$4) near2 (pointer or reference)) (user or client)	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:37
S131	1579	((select$4 or choos$4) near (pointer or reference)) near (user or client)	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:38
S132	120	((select$4 or choos$4) near (pointer or reference)) near (user or client) (list or table)	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:39
S133	29	((select$4 or choos$4) near (pointer or reference)) near (user or client) near2 (list or table)	US-PGPUB; USPAT	WITH	ON	2014/06/05 11:39

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EAST Search History

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19	((device near dependent) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 11:21
L2	1	((device near dependent) (information near apparatus) authentication).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 11:21
L3	77	((pointer or reference) near (content near object)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 11:24
L4	0	((pointer or reference) near (content near object) same (device near dependent)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 11:27
S134	2363	((pointer or reference) near (user)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 09:31
S135	167	(select$2 near (pointer or reference) near (user)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 09:32
S136	0	(select$2 near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 09:33
S137	0	((device near dependent) near (pointer or reference) near (user) (information near apparatus)).clm.	US-PGPUB; USPAT; UPAD	WITH	ON	2014/06/10 09:51

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6801962		2004-10-05	Taniguchi et al.	
	2	8711408		2014-04-29	Chang et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 05/15/2014

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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Examiner Signature	/Esther Benoit/	Date Considered	06/05/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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OR

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☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-05-15
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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BIB DATA SHEET

CONFIRMATION NO. 5528

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/992,413	11/18/2001 RULE	709	2453	FXT312

APPLICANTS

INVENTORS

William Ho Chang, Vancouver, WA;
Christina Ying Liu, Vancouver, WA;

**** CONTINUING DATA ***************************

This appln claims benefit of 60/252,682 11/20/2000

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ****

Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /ESTHER BENOIT/ Examiner's Signature	☐ Met after Allowance E.B. Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		WA	10	65	7

ADDRESS

Edward B. Anderson
Kolisch Hartwell, P.C.
200 Pacific Building
520 S.W. Yamhill Street
Portland, OR 97204
UNITED STATES

TITLE

Method for mobile and pervasive output

FILING FEE RECEIVED		
1031	FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit

BIB (Rev. 05/07)

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

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	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	1	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 13/477,987, June 6, 2014, 26 pages.	☐

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Examiner Signature	/Esther Benoit/	Date Considered	06/10/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-06-09
Name/Print	Peter D. Sabido	Registration Number	50353

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	Benoit, Esther	2453

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB
	Update Search	6/5/2014	EB

SEARCH NOTES		
Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB
Update Search	6/5/2014	EB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
	See Interference Search History	6/10/2014	EB

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	Examiner	Art Unit
	Benoit, Esther	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	
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	34	÷	✓	.	.	.	.	.	.	
	35	÷	✓	.	.	.	.	.	.	
	36	÷	✓	.	.	.	.	.	.	

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	Examiner	Art Unit
	Benoit, Esther	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	
	37	÷	✓	.	.	.	.	.	.	
	38	÷	✓	.	.	.	.	.	.	
	39	÷	✓	.	.	.	.	.	.	
	40	÷	✓	.	.	.	.	.	.	
	41	÷	✓	.	.	.	.	.	.	
	42	÷	✓	.	.	.	.	.	.	
	43	÷	✓	.	.	.	.	.	.	
	44	÷	✓	.	.	.	.	.	.	
	45	÷	✓	.	.	.	.	.	.	
	46	÷	✓	.	.	.	.	.	.	
	47	÷	✓	.	.	.	.	.	.	
	48	÷	✓	.	.	.	.	.	.	
	49	÷	✓	.	.	.	.	.	.	
	50	÷	✓	.	.	.	.	.	.	
	51	÷	✓	.	.	.	.	.	.	
	52	÷	✓	.	.	.	.	.	.	
	53	÷	✓	.	.	.	.	.	.	
	54	÷	✓	.	.	.	.	.	.	
	55	÷	✓	.	.	.	.	.	.	
	56	÷	✓	.	.	.	.	.	.	
	57	÷	✓	.	.	.	.	.	.	
	58	÷	✓	.	.	.	.	.	.	
	59	÷	.	.	.	.	.	.	.	
	60	÷	.	.	.	.	.	.	.	
	61	÷	.	.	.	.	.	.	.	
	62	÷	.	.	.	.	.	.	.	
	63	÷	.	.	.	.	.	.	.	
	64	÷	.	.	.	.	.	.	.	
	65	÷	.	.	.	.	.	.	.	
	66			.	.	.	.	.	.	
	67			.	.	.	.	.	.	
	68			.	.	.	.	.	.	
	69			.	.	.	.	.	.	
	70			.	.	.	.	.	.	
	71			.	.	.	.	.	.	
	72			.	.	.	.	.	.	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	Benoit, Esther	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	
	73			-	-	-	-	-	-	
	74			-	-	-	-	-	-	
	75			-	-	-	-	-	-	
	76			-	-	-	-	-	-	
	77			-	-	-	-	-	-	
	78			-	-	-	-	-	-	
	79			-	-	-	-	-	-	
	80			-	-	-	-	-	-	
	81			-	-	-	-	-	-	
	82			-	-	-	-	-	-	
	83			-	-	-	-	-	-	
	84			-	-	-	-	-	-	
	85			-	-	-	-	-	-	
	86			-	-	-	-	-	-	
	87			-	-	-	-	-	-	
	88			-	-	-	-	-	-	
	89			-	-	-	-	-	-	
	90			-	-	-	-	-	-	
	91			-	-	-	-	-	-	
	92			-	-	-	-	-	-	
	93			-	-	-	-	-	-	
	94			-	-	-	-	-	-	
	95			-	-	-	-	-	-	
	96			-	-	-	-	-	-	
	97			-	-	-	-	-	-	
	98			-	-	-	-	-	-	
	99			-	-	-	-	-	-	
	100			-	-	-	-	-	-	
	101			-	-	-	-	-	-	
	102			-	-	-	-	-	-	
	103			-	-	-	-	-	-	
	104			-	-	-	-	-	-	
	105			-	-	-	-	-	-	
	106			-	-	-	-	-	-	
	107			-	-	-	-	-	-	
	108			-	-	-	-	-	-	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	
	109			-	-	-	-	-	-	
	110			-	-	-	-	-	-	
	111			-	-	-	-	-	-	
	112			-	-	-	-	-	-	
	113			-	-	-	-	-	-	
	114			-	-	-	-	-	-	
	115			-	-	-	-	-	-	
	116			-	-	-	-	-	-	
	117			-	-	-	-	-	-	
	118			-	-	-	-	-	-	
	119			-	-	-	-	-	-	
	120			-	-	-	-	-	-	
	121			-	-	-	-	-	-	
	122			-	-	-	-	-	-	
	123			-	-	-	-	-	-	
	124			-	-	-	-	-	-	
	125			-	-	-	-	-	-	
	126			-	-	-	-	-	-	
	127			-	-	-	-	-	-	
	128			-	-	-	-	-	-	
	129			-	-	-	-	-	-	
	130			-	-	-	-	-	-	
1	131			✓	✓	✓	✓	✓	=	
2	132			✓	✓	✓	✓	✓	=	
3	133			✓	✓	✓	✓	✓	=	
4	134			✓	✓	✓	✓	✓	=	
5	135			✓	✓	✓	✓	✓	=	
6	136			✓	✓	✓	✓	✓	=	
7	137			✓	✓	✓	✓	✓	=	
8	138			✓	✓	✓	✓	✓	=	
9	139			✓	✓	✓	✓	✓	=	
10	140			✓	✓	✓	✓	✓	=	
11	141			✓	✓	✓	✓	✓	=	
12	142			✓	✓	✓	✓	✓	=	
13	143			✓	✓	✓	✓	✓	=	
14	144			✓	✓	✓	✓	✓	=	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	Art Unit
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	
15	145			✓	✓	✓	✓	✓	=	
16	146			✓	✓	✓	✓	✓	=	
17	147			✓	✓	✓	✓	✓	=	
18	148			✓	✓	✓	✓	✓	=	
19	149			✓	✓	✓	✓	✓	=	
20	150			✓	✓	✓	✓	✓	=	
21	151			✓	✓	✓	✓	✓	=	
22	152			✓	✓	✓	✓	✓	=	
23	153			✓	✓	✓	✓	✓	=	
24	154			✓	✓	✓	✓	✓	=	
25	155			✓	✓	✓	✓	✓	=	
26	156			✓	✓	✓	✓	✓	=	
27	157			✓	✓	✓	✓	✓	=	
28	158			✓	✓	✓	✓	✓	=	
29	159			✓	✓	✓	✓	✓	=	
30	160			✓	✓	✓	✓	✓	=	
31	161			✓	✓	✓	✓	✓	=	
32	162			✓	✓	✓	✓	✓	=	
33	163			✓	✓	✓	✓	✓	=	
34	164			✓	✓	✓	✓	✓	=	
35	165			✓	✓	✓	✓	✓	=	
36	166			✓	✓	✓	✓	✓	=	
37	167			✓	✓	✓	✓	✓	=	
38	168			✓	✓	✓	✓	✓	=	
39	169			✓	✓	✓	✓	✓	=	
40	170			✓	✓	✓	✓	✓	=	
41	171			✓	✓	✓	✓	✓	=	
42	172			✓	✓	✓	✓	✓	=	
43	173			✓	✓	✓	✓	✓	=	
44	174			✓	✓	✓	✓	✓	=	
45	175			✓	✓	✓	✓	✓	=	
46	176			✓	✓	✓	✓	✓	=	
47	177			✓	✓	✓	✓	✓	=	
48	178			✓	✓	✓	✓	✓	=	
49	179			✓	✓	✓	✓	✓	=	
50	180			✓	✓	✓	✓	✓	=	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013	06/10/2014	
51	181			✓	✓	✓	✓	✓	=	
52	182			✓	✓	✓	✓	✓	=	
53	183			✓	✓	✓	✓	✓	=	
54	184			✓	✓	✓	✓	✓	=	
55	185			✓	✓	✓	✓	✓	=	
56	186			✓	✓	✓	✓	✓	=	
57	187			✓	✓	✓	✓	✓	=	
58	188			✓	✓	✓	✓	✓	=	
59	189			✓	✓	✓	✓	✓	=	
60	190			✓	✓	✓	✓	✓	=	
61	191			✓	✓	✓	✓	✓	=	
62	192			✓	✓	✓	✓	✓	=	
63	193			✓	✓	✓	✓	✓	=	
64	194			✓	✓	✓	✓	✓	=	
65	195			✓	✓	✓	✓	✓	=	
66	196			✓	✓	✓	✓	✓	=	
67	197			✓	✓	✓	✓	✓	=	
68	198			✓	✓	✓	✓	✓	=	
69	199			✓	✓	✓	✓	✓	=	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5717742	A	1998-02-10	HYDE-THOMPSON, Henry C.A.	
	2	5852721	A	1998-12-22	DILLON et al.	
	3	5884140	A	1999-03-16	ISHIZAKI et al.	
	4	5907831	B1	1999-05-25	LOTVIN et al.	
	5	6205495	B1	2001-03-20	GILBERT et al.	
	6	6215483	B1	2001-04-10	ZIGMOND, Daniel J.	
	7	6385305	B1	2002-05-07	GERSZBERG et al.	
	8	6510515	B1	2003-01-21	RAITH, Alex Krister	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 09/24/2013	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho CHANG	
	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

	9	6526129	B1	2003-02-25	BEATON et al.	
	10	6622015	B1	2003-09-16	HIMMEL et al.	
	11	6628302	B2	2003-09-30	WHITE et al.	
	12	6859937	B1	2005-02-22	NARAYAN et al.	
	13	7076534	B1	2006-07-11	CLERON et al.	
	14	7143356	B1	2006-11-28	SHAFRIR et al.	
	15	7237253	B1	2007-06-26	BLACKKETTER et al.	
	16	7348961	B1	2008-03-25	SHNEIDMAN, Jonathan	
	17	7360230	B1	2008-04-15	PAZ et al.	
	18	8533352	B2	2013-09-10	CHANG, William Ho	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 09/24/2013

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20050210120	A1	2005-09-22	YUKIE et al.	
	2	20110197159	A1	2011-08-11	CHAGANTI et al.	
	3	20120226777	A1	2012-09-06	SHANAHAN, Michael E.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Office Action regarding U.S. Patent Application Serial No. 13/108,925; mailing date 17 JUL 2013; 46 pages.	☐
	2	U.S. PATENT AND TRADEMARK OFFICE (Oleg SURVILLO, Examiner); Office Action regarding U.S. Patent Application Serial No. 11/933,031; mailing date 18 JUL 2013; 60 pages.	☐

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 09/24/2013	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2001-11-18	
	First Named Inventor	William Ho CHANG	
	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

	3	U.S. PATENT AND TRADEMARK OFFICE (Esther BENOIT, Examiner); Office Action regarding U.S. Patent Application Serial No. 12/204,689; mailing date 15 AUG 2013; 63 pages.	☐
	4	U.S. PATENT AND TRADEMARK OFFICE (Esther BENOIT, Examiner); Office Action regarding U.S. Patent Application Serial No. 12/204,695; mailing date 27 AUG 2013; 62 pages.	☐
	5	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Notice of Allowance regarding U.S. Patent Application Serial No. 13/108,922; mailing date 19 SEP 2013; 44 pages.	☐

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EXAMINER SIGNATURE

Examiner Signature	/Esther Benoit/	Date Considered	06/05/2014

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 09/24/2013

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-09-24
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

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Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5537107	A	1996-07-16	FUNDADO, Shigeto	
	2	5546079	A	1996-08-13	WAGNER, Roman	
	3	5589889	A	1996-12-31	KAWAOKA, Yoshiki	
	4	5870723	A	1999-02-09	PARE, JR. et al.	
	5	6088450	A	2000-07-11	DAVIS et al.	
	6	6144997	A	2000-11-07	LAMMING et al.	
	7	6195564	B1	2001-02-27	RYDBECK et al.	
	8	6211858	B1	2001-04-03	MOON et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 11/25/2013

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

	9	6223059	B1	2001-04-24	HAESTRUP, Jan	
	10	6633346	B1	2003-10-14	YAMAMOTO, Zenkou	
	11	6839775	B1	2005-01-04	KAO et al.	
	12	6947067	B2	2005-09-20	HALTTUNEN, Lasse	
	13	6983310	B2	2006-01-03	ROUSE et al.	
	14	7155163	B2	2006-12-26	CANNON et al.	
	15	7454796	B2	2008-11-18	MAZZAGATTE et al.	
	16	7660460	B2	2010-02-09	WU et al.	
	17	7743133	B1	2010-07-22	MOTOYAMA et al.	

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	1	20010015717	A1	2001-08-23	MISHRA et al.		
	2	20020090912	A1	2002-07-11	CANNON et al.		
	3	20030061606	A1	2003-03-27	HARTWIG et al.		

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Examiner Signature	/Esther Benoit/	Date Considered	06/05/2014

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	First Named Inventor	William Ho CHANG	
	Art Unit	2453	
	Examiner Name	Esther BENOIT	
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OR

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-11-25
Name/Print	Peter D. Sabido	Registration Number	50,353

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5845078		1998-12-01	Tezuka et al.	
	2	5881213		1999-03-09	Shaw et al.	
	3	6292283		2001-09-18	Grandbois	
	4	6510235		2003-01-21	Shin et al.	
	5	6621589		2003-09-16	Al-Kazily et al.	
	6	7164885		2007-01-16	Jonsson et al.	
	7	8595717		2013-11-26	Chang et al.	
	8	8705097		2014-04-22	Chang et al.	

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Lexmark v. Flexiworld

Receipt date: 04/28/2014

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Application Number	09992413 09992413 - GAU: 2453
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First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
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	9	6330611		2001-12-11	Itoh et al.	

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	1	20020009988		2002-01-24	Murata	
	2	20030002072		2003-01-02	Berkema et al.	
	3	20080004925		2008-01-03	Bangel et al.	
	4	20080004965		2008-01-03	Park	
	5	20100020199		2010-01-28	Meitav et al.	
	6	20100020382		2010-01-28	Su et al.	
	7	20100022755		2010-01-28	Umeda et al.	
	8	20100003966		2010-01-07	Lu et al.	

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	First Named Inventor	William Ho Chang	
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	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	9	20120258700		2012-10-11	Chang et al.	
	10	20130095887		2013-04-18	Chang et al.	
	11	20130103775		2013-04-25	Chang et al.	
	12	20130104052		2013-04-25	Chang et al.	
	13	20130109353		2013-05-02	Chang et al.	

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	1	2002084928	WO		2002-10-24	Chang et al.		☐

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	1	~~Provisional Applications, via public pair: 60/224,701, 60/227,878, 60/243,654, 60/298,067, 60/220,047, 60/230,329~~	☐

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	2	U.S. RECEIVING OFFICE, International Search Report for PCT Application No. PCT/US01/43796, March 20, 2002, 3 pages.	☐
	3	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 09/992,183, January 25, 2011, 34 pages.	☐
	4	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 11/933,031, April 22, 2014, 68 pages.	☐
	5	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 13/477,987, February 25, 2014, 104 pages.	☐

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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-04-28
Name/Print	Peter D. Sabido	Registration Number	50353

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	1	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,689, June 10, 2014, 59 pages.	☐
	2	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 12/204,695, June 10, 2014, 58 pages.	☐

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OR

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-06-18
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	19346732
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Servers Over the Internet For Transmitting Or Streaming Protected Digital Content On Demand To Information Pads, Smart Phones, Smart Televisions, Or Output Controllers
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	EDWARD B. ANDERSON KOLISCH HARTWELL, P.C. 200 PACIFIC BUILDING 520 S.W. YAMHILL STREET PORTLAND OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	18-JUN-2014
Filing Date:	18-NOV-2001
Time Stamp:	19:41:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20140618_IDS_FXT312.pdf	612377	no	4

Warnings:

Information:

A U.S. Patent Number Citation or a U.S. Publication Number Citation is required in the Information Disclosure Statement (IDS) form for autoloading of data into USPTO systems. You may remove the form to add the required data in order to correct the Informational Message if you are citing U.S. References. If you chose not to include U.S. References, the image of the form will be processed and be made available within the Image File Wrapper (IFW) system. However, no data will be extracted from this form. Any additional data such as Foreign Patent Documents or Non Patent Literature will be manually reviewed and keyed into USPTO systems.

2	Non Patent Literature	20140610_Office_Action_FXT311.pdf	2743132	no	59

Warnings:

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Information:

3	Non Patent Literature	20140610_Office_Action_FXT314.pdf	2724286	no	58

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Information:

Total Files Size (in bytes):	6079795

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/06 (09-11)
Approved for use through 1/31/2014 OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	06/10/2014	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 69	Minus	** 69	= 0	x $40 =	0
	Independent (37 CFR 1.16(h))	* 7	Minus	***7	= 0	x $210 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/DONNA 1. SMALLS LOGAN/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

	1	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 13/477,987, June 6, 2014, 26 pages.	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-06-09
Name/Print	Peter D. Sabido	Registration Number	50353

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1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	19251660
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	09-JUN-2014
Filing Date:	18-NOV-2001
Time Stamp:	17:13:19
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20140609_IDS_FXT312.pdf	612364	no	4

Warnings:

Information:

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2	Non Patent Literature	NPL1_20140606__NOA_.pdf	1781512	no	26

Warnings:

Information:

Total Files Size (in bytes):	2393876

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
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National Stage of an International Application under 35 U.S.C. 371
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New International Application Filed with the USPTO as a Receiving Office
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6801962		2004-10-05	Taniguchi et al.	
	2	8711408		2014-04-29	Chang et al.	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

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☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-05-15
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

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Electronic Acknowledgement Receipt

EFS ID:	19039856
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	15-MAY-2014
Filing Date:	18-NOV-2001
Time Stamp:	14:35:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$180

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RAM confirmation Number	908
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20140515_IDS_FXT312.pdf	612318 e4ece6111Bcaef513fcf4f0b9d57d0dca4d458c1	no	4
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30092 879a77d70280799528280a4861762b7900ffa1	no	2
Warnings:					
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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
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PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5845078		1998-12-01	Tezuka et al.	
	2	5881213		1999-03-09	Shaw et al.	
	3	6292283		2001-09-18	Grandbois	
	4	6510235		2003-01-21	Shin et al.	
	5	6621589		2003-09-16	Al-Kazily et al.	
	6	7164885		2007-01-16	Jonsson et al.	
	7	8595717		2013-11-26	Chang et al.	
	8	8705097		2014-04-22	Chang et al.	

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	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

	9	6330611		2001-12-11	Itoh et al.	

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	1	20020009988		2002-01-24	Murata	
	2	20030002072		2003-01-02	Berkema et al.	
	3	20080004925		2008-01-03	Bangel et al.	
	4	20080004965		2008-01-03	Park	
	5	20100020199		2010-01-28	Meitav et al.	
	6	20100020382		2010-01-28	Su et al.	
	7	20100022755		2010-01-28	Umeda et al.	
	8	20100003966		2010-01-07	Lu et al.	

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	9	20120258700		2012-10-11	Chang et al.		
	10	20130095887		2013-04-18	Chang et al.		
	11	20130103775		2013-04-25	Chang et al.		
	12	20130104052		2013-04-25	Chang et al.		
	13	20130109353		2013-05-02	Chang et al.		

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	1	2002084928	WO		2002-10-24	Chang et al.		☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Provisional Applications, via public pair: 60/224,701, 60/227,878, 60/243,654, 60/208,967, 60/220,047, 60/239,320.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

	2	U.S. RECEIVING OFFICE, International Search Report for PCT Application No. PCT/US01/43796, March 20, 2002, 3 pages.	☐
	3	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 09/992,183, January 25, 2011, 34 pages.	☐
	4	U.S. PATENT AND TRADEMARK OFFICE, Office Action for U.S. Patent Application Serial No. 11/933,031, April 22, 2014, 68 pages.	☐
	5	U.S. PATENT AND TRADEMARK OFFICE, Notice of Allowance for U.S. Patent Application Serial No. 13/477,987, February 25, 2014, 104 pages.	☐

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Application Number	09992413
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	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-04-28
Name/Print	Peter D. Sabido	Registration Number	50353

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
24 October 2002 (24.10.2002)

PCT

(10) International Publication Number
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(51) International Patent Classification[7]: H04L

(21) International Application Number: PCT/US02/19901

(22) International Filing Date: 21 January 2002 (21.01.2002)

(25) Filing Language: English

(26) Publication Language: English

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60/262,764 19 January 2001 (19.01.2001) US

(71) Applicant *(for all designated States except US)*: **FLEXI-WORLD TECHNOLOGIES, INC.** [US/US]; P.O. Box 87237, Vancouver, WA 98687 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CHANG, William, Ho** [US/US]; 16900 S.E. 26th Drive, #94, Vancouver, WA 98683 (US). **LIU, Christina, Ying** [CN/US]; Flexiworld Technologies, Inc., P.O. Box 87237, Vancouver, WA 98687 (US).

(74) Agent: **SMITH-HILL, John**; Smith-Hill and Bedell, P.C., 12670 N.W. Barnes Road, Suite 104, Portland, OR 97229 (US).

(81) Designated States *(national)*: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 02/084928 A2

(54) Title: SYSTEM FOR UNIVERSAL DATA OUTPUT

(57) Abstract: An information apparatus that is on a local area rasterizes a digital document on the information apparatus to generate image data and creates an intermediate output data from the image data. The intermediate output data is transmitted to an output device that is on the local area network and includes an output engine that outputs images with a device-specific output size and resolution. The image data is recovered from the intermediate output data and is converted to instructions compatible with the output engine, based at least in part on the device-specific output size and resolution of the output engine. The method further includes providing the instructions to the output engine and operating the output engine in response to the instructions and thereby outputting an image of the digital document.

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SYSTEM FOR UNIVERSAL DATA OUTPUT

CROSS REFERENCE TO RELATED APPLICATION

[0001] This application claims benefit of Provisional Application No. 60/262,764 filed January 19, 2001, the entire disclosure of which is hereby incorporated by reference herein for all purposes.

TECHNICAL FIELD OF THE INVENTION

[0002] Present invention relates to providing content to an output device and, in particular, to providing universal output in which an information apparatus can pervasively output content to an output device without the need to install a dedicated device dependent driver or applications for each output device.

BACKGROUND OF THE INVENTION

[0003] The present invention relates to universal data output and, in particular, to providing a new data output method and a new raster image process for information apparatuses and output devices.

[0004] As described herein, information apparatuses refer generally to computing devices, which include both stationary computers and mobile computing devices (pervasive devices). Examples of such information apparatuses include, without limitation, desktop computers, laptop computers, networked computers, palmtop computers (hand-held computers), personal digital assistants (PDAs), Internet enabled mobile phones, smart phones, pagers, digital capturing devices (e.g., digital cameras and video cameras), Internet appliances, e-books, information pads, and digital or web pads. Output devices may include, without limitation, fax machines, printers, copiers, image and/or video display devices (e.g., televisions, monitors and projectors), and audio output devices.

[0005] For simplicity and convenience, hereafter, the following descriptions may refer to an output device as a printer and an output process as printing. However, it should be understood that the term printer and printing used in the discussion of present invention refer to one embodiment used as a specific example to simplify the description of the invention. The references to printer and printing used here are intended to be applied or extended to the larger scope and definition of output devices and

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should not be construed as restricting the scope and practice of present invention.

[0006] Fueled by an ever-increasing bandwidth, processing power, wireless mobile devices, and wireless software applications, millions of users are or will be creating, downloading, and transmitting content and information using their pervasive or mobile computing devices. As a result, there is a need to allow users to conveniently output content and information from their pervasive computing devices to any output device. As an example, people need to directly and conveniently output from their pervasive information apparatus, without depending on synchronizing with a stationary computer (e.g., desktop personal computer) for printing.

[0007] To illustrate, a mobile worker at an airport receiving e-mail in his hand-held computer may want to walk up to a nearby printer or fax machine to have his e-mail printed. In addition, the mobile worker may also want to print a copy of his to-do list, appointment book, business card, and his flight schedule from his mobile device. As another example, a user visiting an e-commerce site using his mobile device may want to print out transaction confirmation. In still another example, a user who takes a picture with a digital camera may want to easily print it out to a nearby printer. In any of the above cases, the mobile user may want to simply walk up to a printer and conveniently print a file (word processing document, PDF, HTML etc) that is stored on the mobile device or downloaded from a network (e.g., Internet, corporate network).

[0008] Conventionally, an output device (e.g., a printer) is connected to an information apparatus via a wired connection such as a cable line. A wireless connection is also possible by using, for example, radio communication or infrared communication. Regardless of wired or wireless connection, a user must first install in the information apparatus an output device driver (e.g., printer driver in the case the output device is a printer) corresponding to a particular output device model and make. Using a device-dependent or specific driver, the information apparatus may process output content or digital document into a specific output device's input requirements (e.g., printer input requirements). The output device's input requirements correspond to the type of input that the output device (e.g., a printer) understands. For example, a printer's input requirement may include printer specific input format (e.g., one or more of an image,

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graphics or text format or language). Therefore, an output data (or print data in the case the output device is a printer) herein refers to data that is acceptable for input to an associated output device. Examples of input requirements may include, without limitation, audio format, video format, file format, data format, encoding, language (e.g., page description language, markup language etc), instructions, protocols or data that can be understood or used by a particular output device make and model.

[0009] Input requirements may be based on proprietary or published standards or a combination of the two. An output device's input requirements are, therefore, in general, device dependent. Different output device models may have their own input requirements specified, designed or adopted by the output device manufacturer (e.g., the printer manufacturer) according to a specification for optimal operation. Consequently, different output devices usually require use of specific output device drivers (e.g., printer drivers) for accurate output (e.g., printing). Sometimes, instead of using a device driver (e.g., printer driver), the device driving feature may be included as part of an application software.

[0010] Installation of a device driver (e.g., printer driver) or application may be accomplished by, for example, manual installation using a CD or floppy disk supplied by the printer manufacturer. Or alternatively, a user may be able to download a particular driver or application from a network. For a home or office user, this installation process may take anywhere from several minutes to several hours depending on the type of driver and user's sophistication level with computing devices and networks. Even with plug-and-play driver installation, the user is still required to execute a multi-step process for each printer or output device.

[0011] This installation and configuration process adds a degree of complexity and work to end-users who may otherwise spend their time doing other productive or enjoyable work. Moreover, many unsophisticated users may be discouraged from adding new peripherals (e.g., printers, scanners, etc.) to their home computers or networks to avoid the inconvenience of installation and configuration. It is therefore desirable that an information apparatus can output to more than one output device without the inconvenience of installing multiple dedicated device dependent drivers.

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[0012] In addition, conventional output or printing methods may pose significantly higher challenges and difficulties for mobile device users than for home and office users. The requirement for pre-installation of a device-dependent driver diminishes the benefit and concept of mobile (pervasive) computing and output. For example, a mobile user may want to print or output e-mail, PowerPoint® presentation documents, web pages, or other documents at an airport, gas station, convenience store, kiosk, hotel, conference room, office, home, etc. It is highly unlikely that the user would find at any of these locations a printer of the same make and model as is at the user's base station. As a consequence, under the conventional printing method, the user would have to install and configure a printer driver each time at each such remote location before printing. It is usually not a viable option given the hundreds, or even thousands of printer models in use, and the limited storage, memory space, and processing power of the information apparatus.

[0013] Moreover, the user may not want to be bothered with looking for a driver or downloading it and installing it just to print out or display one page of email at the airport. This is certainly an undesirable and discouraging process to promote pervasive or mobile computing. Therefore, a more convenient printing method is needed in support of the pervasive computing paradigm where a user can simply walk up to an output device (e.g., printer or display device) and easily output a digital document without having to install or pre-install a particular output device driver (e.g., printer driver).

[0014] Another challenge for mobile users is that many mobile information apparatuses have limited memory space, processing capacity and power. These limitations are more apparent for small and low-cost mobile devices including, for example, PDAs, mobile phones, screen phones, pagers, e-books, Internet Pads, Internet appliances etc. Limited memory space poses difficulties in installing and running large or complex printer or device drivers, not to mention multiple drivers for a variety of printers and output devices. Slow processing speed and limited power supply create difficulties driving an output device. For example, processing or converting a digital document into output data by a small mobile information apparatus may be so slow that it is not suitable for productive output. Intensive processing may also drain or consume power or battery resources. Therefore, a method is needed so that a small mobile device, with limited processing

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capabilities, can still reasonably output content to various output devices.

[0015] To output or render content (e.g. digital document) to an output device, a raster image processing (RIP) operation on the content is usually required. RIP operation can be computationally intensive and may include (1) a rasterization operation, (2) a color space conversion, and (3) a halftoning operation. RIP may also include other operations such as scaling, segmentation, color matching, color correction, GCR (Grey component replacement), Black generation, image enhancement compression/decompression, encoding/decoding, encryption/decryption GCR, image enhancement among others.

[0016] Rasterization operation in RIP involves converting objects and descriptions (e.g. graphics, text etc) included in the content into an image form suitable for output. Rasterization may include additional operations such as scaling and interpolation operations for matching a specific output size and resolution. Color space conversion in RIP includes converting an input color space description into a suitable color space required for rendering at an output device (e.g. RGB to CMYK conversion). Digital halftoning is an imaging technique for rendering continuous tone images using fewer luminance and chrominance levels. Halftoning operations such as error diffusion can be computationally intensive and are included when the output device's bit depth (e.g. bits per pixel) is smaller than the input raster image bit depth.

[0017] Conventionally, RIP operations are included either in an information apparatus, or as part of an output device or output system (e.g. in a printer controller). Fig. 1A illustrates a flow diagram of a conventional data output method 102 in which RIP 110 is implemented in the information apparatus. Output devices that do not include a printer controller to perform complex RIP operations, such as a lower-cost, lower speed inkjet printer, normally employ data output method 102. In data output method 102, an information apparatus obtains content (e.g. a digital document) in step 100 for rendering or output at an output device. The information apparatus may includes an application (e.g. device driver), which implements RIP operation 110. The information apparatus generates an output data in step 120 and transmits the output data to the output device in step 130 for rendering. The output data relating to the content is in an acceptable form (e.g. in an appropriate output size and resolution) to the output engine (e.g. display engine, printer

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engine etc.) included in the output device. The output data in a conventional output method 102 is usually device dependent.

[0018] One drawback for the data output method 102 of Fig. 1A is that the information apparatus performs most if not the entire raster image processing operations 110 required for output. The RIP operations may require intensive computation. Many information apparatus such as mobile information device might have insufficient computing power and/or memory to carry out at an acceptable speed the RIP operations 110 required in an output process.

[0019] Another drawback for the conventional data output method 102 of Fig. 1A is that the generated output data is device dependent and therefore is typically not very portable to other output devices. As a result, the information apparatus may need to install multiple applications or device drivers for multiple output devices, which may further complicate its feasibility for use in information apparatuses with limited memory, storage and processing power.

[0020] Fig. 1B illustrates a flow diagram of another conventional data output method 104 in which the RIP is implemented in an output device. An example of an output device that implements process 104 is a high-speed laser printer which includes a printer controller for performing RIP operations and an output engine (e.g. printer engine) for rendering content. Printer controller may be internally installed or externally connected to an output device (printer in this example). In data output method 104, an information apparatus obtains content for output in step 100 and generates in step 160 an output data or print data for transmitting to the output device in step 170. Print data includes information related to the content and is usually encoded in a page description language (PDL) such as PostScript and PCL etc. In step 180, the printer receives the output data or print data (in a PDL). In step 190, a printer controller included in the printer interprets the PDL, performs RIP operations, and generates a printer-engine print data that is in a form acceptable to the printer engine (e.g. a raster image in an appropriate output size, bit depth, color space and resolution). In step 150 the printer engine renders the content with the printer-engine print data.

[0021] It will be understood that a reference to print data or output data including a language, such as PDL, should be interpreted as meaning that the print data or output data is encoded using that language. Correspondingly, a reference to a data output process generating a language, such as PDL, should be

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interpreted as meaning that the data output process encodes data using that language.

[0022] There are many drawbacks in the conventional data output method 104 shown in Fig 1B. These drawbacks are especially apparent for mobile computing devices with limited processing power and memory. One such drawback is that the output data or print data, which include a page description language (PDL) such as PostScript or PCL, can be very complex. Generating complex PDL may increase memory and processing requirements for an information apparatus. Furthermore, interpreting, decoding and then raster image processing complex PDL can increase computation, decrease printing speed, and increase the cost of the output device or its printer controller.

[0023] Another drawback is that the output data that includes PDL can creates a very large file size that would increase memory and storage requirements for the information apparatus, the output device and/or the printer controller etc. Large file size may also increase the bandwidth required in the communication link between the information apparatus and the output device.

[0024] Finally, to rasterize text in an output device, a printer controller may need to include multiple fonts. When a special font or international characters is not included or missing in the printer controller, the rendering or output can potentially become inaccurate or inconsistent.

SUMMARY OF THE INVENTION

[0025] Accordingly, this invention provides a convenient universal data output method in which an information apparatus and an output device or system share the raster image processing operations. Moreover, the new data output method eliminates the need to install a plurality of device-dependent dedicated drivers or applications in the information apparatus in order to output to a plurality of output devices.

[0026] In accordance with present invention, an electronic system and method of pervasive and universal output allow an information apparatus to output content conveniently to virtually any output device. The information apparatus may be equipped with a central processing unit, input/output control unit, storage unit, memory unit, and wired or wireless communication unit or adapters. The information apparatus preferably includes a client application that may be implemented as a software application, a helper application, or a device driver (a printer driver in case of a

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printer). The client application may include management and control capabilities with hardware and software components including, for example, one or more communication chipsets residing in its host information apparatus.

[0027] The client application in the information apparatus may be capable of communicating with, managing and synchronizing data or software components with an output device equipped with an output controller of present invention.

[0028] Rendering content in an output device refers to printing an image of the content onto an substrate in the case of a printing device; displaying an image of the content in the case of a displaying device; playing an audio representation of the content in a voice or sound output device or system.

[0029] An output controller may be a circuit board, card or software components residing in an output device. Alternatively, the output controller may be connected externally to an output device as an external component or "box." The output controller may be implemented with one or more combinations of embedded processor, software, firmware, ASIC, DSP, FPGA, system on a chip, special chipsets, among others. In another embodiment, the functionality of the output controller may be provided by application software running on a PC, workstation or server connected externally to an output device.

[0030] In conventional data output method 102 as described with reference to Fig. 1A, an information apparatus transmits output data to an output device for rendering. Output data corresponds to content intended for output and is mostly raster image processed (RIPed) and therefore is device dependent because raster image processing is a typical device dependent operation. Output data may be encoded or compressed with one or more compression or encoding techniques. In present invention, an information apparatus generates an intermediate output data for transmitting to an output device. The intermediate output data includes a rasterized image corresponding to the content; however, device dependent image processing operations of a RIP (e.g. color matching and halftoning) have not been performed. As a result, an intermediate output data is more device independent and is more portable than the output data generated by output method with reference to Fig 1A.

[0031] In one implementation of this invention, the intermediate output data includes MRC (Mixed raster content) format, encoding and compression techniques, which further provides

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improved image quality and compression ratio compared to conventional image encoding and compression techniques.

[0032] In an example of raster image process and data output method of the present invention, a client application such as a printer driver is included in an information apparatus and performs part of raster image processing operation such as rasterization on the content. The information apparatus generates an intermediate output data that includes an output image corresponding to the content and sends the intermediate output data to an output device or an output system for rendering. An output controller application or component included in the output device or output system implements the remaining part of the raster image processing operations such as digital halftoning, color correction among others.

[0033] Like conventional raster image processing methods, this invention provides a more balanced distribution of the raster image processing computational load between the Information apparatus and the output device or the output system. Computational intensive image processing operations such as digital halftoning and color space conversions can be implemented in the output device or output system. Consequently, this new raster image processing method reduces the processing and memory requirements for the information apparatus when compared to conventional data output methods described with reference to Fig 1A in which the entire raster image process is implemented in the information apparatus. Additionally, in this invention, a client application or device driver included in the information apparatus, which performs part of the raster image processing operation, can have a smaller size compared to a conventional output application included in the information apparatus, which performs raster image processing operation.

[0034] In another implementation, the present invention provides an information apparatus with output capability that is more universally accepted by a plurality of output devices. The information apparatus, which includes a client application, generates an intermediate output data that may include device independent attributes. An output controller includes components to interpret and process the intermediate output data. The information apparatus can output content to different output devices or output systems that include the output controller even when those output devices are of different brand, make, model and with different output engine and input data requirements. Unlike conventional output methods, a user does not need to preinstall in

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the information apparatus multiple dedicated device dependent drivers or applications for each output device.

[0035] The combination of a smaller-sized client application, a reduced computational requirement in the information apparatus, and a more universal data output method acceptable for rendering at a plurality of output devices enable mobile devices with less memory space and processing capabilities to implement data output functions which otherwise would be difficulty to implement with conventional output methods.

[0036] In addition, this invention can reduce the cost of an output device or an output system compared to conventional output methods 104 that include a page description language (PDL) printer controller. In the present invention, an information apparatus generates and sends an intermediate output data to an output device or system. The intermediate output data in one preferred embodiment includes a rasterized output image corresponding to the content intended for output. An output controller included in an output device or an output system decodes and processes the intermediate output data for output, without performing complex interpretation and rasterization compared to conventional methods described in process 104. In comparison, the conventional data output process 104 generates complex PDL and sends this PDL from an information apparatus to an output device that includes a printer controller (e.g. a PostScript controller or a PCL5 controller among others). Interpretation and raster image processing of a PDL have much higher computational requirements compared to decoding and processing the intermediate output data of this invention that include rasterized output image or images. Implementing a conventional printer controller with, for example, PDL increases component cost (e.g. memories, storages, ICs, software and processors etc.) when compared to using the output controller included in the data output method of this present invention.

[0037] Furthermore, an output data that includes PDL can create a large file size compared to an intermediate output data that includes rasterized output image. The data output method for this invention comparatively transmits a smaller output data from an information apparatus to an output device. Smaller output data size can speed up transmission, lower communication bandwidth, and reduce memory requirements. Finally, this invention can provide a convenient method to render content at an output device with or without connection to a static network. In conventional network printing, both information apparatus and output device must be

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connected to a static network. In this invention, through local communication and synchronization between an information apparatus and an output device, installation of hardware and software to maintain static network connectivity may not be necessary to enable the rendering of content to an output device.

[0038] According to the several aspects of the present invention there is provided the subject matter defined in the appended independent claims.

[0039] Additional objects and advantages of the present invention will be apparent from the detailed description of the preferred embodiment thereof, which proceeds with reference to the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0040] Fig. 1A is a flow diagram of a conventional data output method and its corresponding raster image process in accordance with prior art.

[0041] Fig. 1B is a flow diagram of a second conventional data output method and its corresponding raster image process for an output device that includes a conventional printer controller in accordance with prior art.

[0042] Figs. 2A and 2B are block diagrams illustrating components of an operating environment that can implement the process and apparatus of the present invention.

[0043] Fig. 3A is a schematic block diagram illustrating hardware/software components of an information apparatus implementation in accordance with present invention. The information apparatus includes an operating system.

[0044] Fig. 3A is a second schematic block diagram illustrating hardware/software components of an information apparatus implementation in accordance with present invention.

[0045] Fig. 4A is a block diagram of a conventional printing system or printer with a conventional printer controller.

[0046] Fig. 4B is a block diagram of a second conventional output system or output device.

[0047] Fig. 5A is a schematic block diagram of a printing system or printer with a conventional printer controller and an output controller in accordance with present invention.

[0048] Fig. 5B is a schematic block diagram of a second output system or output device that includes an output controller in accordance with present invention.

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[0049] Fig. 6A is a schematic block diagram illustrating hardware/software components of an output controller in accordance with present invention. The output controller includes an operating system.

[0050] Fig. 6B is a second schematic block diagram illustrating hardware/software components of an output controller in accordance with present invention. The output controller does not include an operating system.

[0051] Fig. 6C is a third schematic block diagram illustrating hardware/software components of an output controller in accordance with present invention. The output controller combines the functionality of a printer controller and an output controller of present invention.

[0052] Figs. 7A-7F illustrate various configurations and implementations of output controller with respect to an output device such as a printer.

[0053] Fig. 8A is a block diagram illustrating an exemplary implementation of hardware/software components of wireless communication unit.

[0054] Fig. 8B is block diagram illustrating a second exemplary implementation of hardware/software components of wireless communication unit.

[0055] Fig. 9 is a flow diagram of a universal data output method and its corresponding raster imaging process of the present invention.

[0056] Fig. 10 is a block diagram of a universal data output method of the present invention with respect to the components, system and apparatus described with reference to Fig 2.

[0057] Fig. 11 is a flow diagram illustrating one way of implementing a discovery process optionally included in the output process of Fig. 10.

[0058] Fig. 12A and 12B are flow diagrams of exemplary client application process included in the output process of Fig. 10.

[0059] Fig. 13A and 13B are flow diagrams of exemplary output device or output system process included in the output process of Fig. 10.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0060] Sets forth below are definitions of terms that are used in describing implementations of the present invention. These definitions are provided to facilitate understanding and illustration of implementations of the present invention and should

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in no way be construed as limiting the scope of the invention to a particular example, class, or category.

Output device profile (or object)

[0061] An output device profile (or object) includes software and data entity, which encapsulates within itself both data and attributes describing an output device and instructions for operating that data and attributes. An output device profile may reside in different hardware environments or platforms or applications, and may be transported in the form of a file, a message, a software object or component among other forms and techniques. For simplicity of discussion, a profile or object may also include, for example, the concept of software components that may have varying granularity and can consist of one class, a composite of classes, or an entire application.

[0062] The term profile or object used herein is not limited to software or data as its media. Any entity containing information, descriptions, attributes, data, instructions etc. in any computer-readable form or medium such as hardware, software, files based on or including voice, text, graphics, image, or video information, electronic signals in analog or digital form, etc., are all valid forms of profile and object definition.

[0063] A profile or object may also contain in one of its fields or attributes a reference or pointer to another profile or object, or a reference or pointer to data and or content. A reference to a profile or object may include one or more, or a combination of pointers, identifiers, names, paths, addresses or any descriptions relating to a location where an object, profile, data, or content can be found.

[0064] An output device profile may contain one or more attributes that may identify and describe, for example, the capabilities and functionalities of a particular output device such as a printer. An output device profile may be stored in the memory component of an output device, an information apparatus or in a network node. A network node includes any device, server or storage location that is connected to the network. As described below in greater detail, an information apparatus requesting output service may communicate with an output device. During such local service negotiation, at least a partial output device profile may be uploaded to the information apparatus from the output device. By obtaining the output device profile (or printer profile in the case of a printer), the information apparatus may learn about the

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capability, compatibility, identification, and service provided by the output device.

[0065] As an example, an output device profile may contain one or more of the following fields and or attribute descriptions. Each of following fields may be optional, and furthermore, each of the following fields or attributes may or may not exist in a particular implementation (e.g., may be empty or NULL):

[0066] Identification of an output device (e.g., brand, model, registration, IP address etc.)

- Services and feature sets provided by an output device (e.g., color or grayscale output, laser or inkjet, duplex, output quality, price per page, quality of service, etc.)
- Type of input languages, formats, output data and/or input requirements (e.g., PostScript, PCL, XML, RTL, etc.) supported by an output device.
- Device specific or dependent parameters and information (e.g., communication protocols, color space, color management methods and rendering intents, resolution, halftoning methods, dpi (dots-per-inch), bit depth, page size, printing speed, number of independent colors channels or ink etc.)
- Data and tables needed for image processing such as color table, halftone table, scale factor, encoding/decoding parameters and methods, compression and decompression parameters and method etc.
- Another profile which contain parameters and information about the output device and its service (e.g. color profiles, halftoning profiles, communication profiles, rasterization profiles, quality of service etc.).
- Payment information on a plurality of services provided by an output device.
- Information or security requirements and type of authentication an output device supports.
- Date and version of the output device profile, history of its modification and updates.
- Software components containing algorithms or instructions or data, which may be uploaded to run in an information apparatus. For example, a graphical user interface (GUI) software component may be uploaded to an information apparatus. The software component may be incorporated into or launched in the information apparatus by a client application of present invention to capture a user's preferences (e.g., print quality, page layout, number of copies, number of cards per page, etc.). In another example,

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software components may include methods, instructions or executables for compression/decompression, encoding/decoding, color matching or correction, segmentation, scaling, halftoning, encryption/decryption among others.

• Pointer or reference to one or more output device parameters, including one or more of the above described output device profile or object fields and or attribute descriptions. For example, a more up-to-date or original version of output device parameters may sometimes be stored in a network node (any device, server or storage location that is connected to the network), or within the information apparatus where it can be obtained by the client application. An output device profile may include pointer or pointers to these output device parameters.

Content (or data content, digital content, output content)

[0067] Content (or data content, digital content, output content) is the data intended for output, which may include texts, graphics, images, forms, videos, audio among other content types. Content may include the data itself or a reference to that data. Content may be in any format, language, encoding or combination, and it can be in a format, language or encoding that is partially or totally proprietary. A digital document is an example of content that may include attributes and fields that describe the digital document itself and or reference or references to the digital document or documents. Examples of a digital document may be any one or combination of file types: HTML, VHTML, PostScript, PCL, XML, PDF, MS Word, PowerPoint, JPEG, MPEG, GIF, PNG, WML, VWML, CHTML, HDML, ASCII, 2-byte international coded characters, etc. Content may be used interchangeably with the term data content, output content or digital content in the descriptions of present invention.

Intermediate output data

[0068] Output data (or print data in case of a printer) is the electronic data sent from an information apparatus to an output device. Output data is related to the content intended for output and may be encoded in a variety of formats and languages (e.g. postscript, PCL, XML), which may include compressed or encrypted data. Some output device manufacturers may also include in the output data (or print data) a combination of proprietary or non-proprietary languages, formats, encoding, compression, encryption etc.

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[0069] Intermediate output data is the output data of the present invention, and it includes the broader definition of an output file or data generated by an information apparatus, or a client application or device driver included in the information apparatus. An intermediate output data may contain text, vector graphics, images, video, audio, symbols, forms or combination and can be encoded with one or more of a page description language, a markup language, a graphics format, an imaging format, a metafile among others. An intermediate output data may also contain instructions (e.g. output preferences) and descriptions (e.g. data layout) among others. Part or all of an intermediate output data may be compressed, encrypted or tagged.

[0070] In a preferred embodiment of this invention, intermediate output data contains rasterized image data. For example, vector graphics and text information or objects that are not in image form included in content can be rasterized or conformed into image data in an information apparatus and included in an intermediate output data. Device dependent image processing operations of a RIP such as digital halftoning and color space conversions can be implemented at an output device or an output system.

[0071] The intermediate output data can be device dependent or device independent. In one implementation, the rasterized output image is device dependent if the rasterization parameters used, such as resolution, scale factor, bit depth, output size and or color space are device dependent. In another implementation of this invention, the rasterized image may be device independent if the rasterization parameters used are device independent. Rasterization parameter can become device independent when those parameters include a set of predetermined or predefined rasterization parameters based on a standard or a specification. With predefined or device independent rasterization parameters, a client application of present invention can rasterize at least a portion of the content and generate a device independent image or images included in the intermediate output data. By doing so, the intermediate output data may become device independent and therefore, become universally acceptable with output devices that have been pre-configured to accept the intermediate output data.

[0072] One advantage of rasterizing or converting text and graphics information into image data at the information apparatus is that the output device or printer controller no longer needs to perform complex rasterization operation nor do they need to include

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multiple fonts. Therefore, employing the intermediate output data and the data output method described herein could potentially reduce the cost and complexity of an output controller, printer controller and or output device.

[0073] One form of image data encoding is known as mixed raster content, or MRC. Typically, an image stored in MRC includes more than one image or bitmap layers. In MRC, an image can be segmented in different layers based on segmentation criteria such as background and foreground, luminance and chrominance among others. For example, an MRC may include three layers with a background layer, a foreground layer and a toggle or selector layer. The three layers are coextensive and may include different resolution, encoding and compression. The foreground and background layers may each contain additional layers, depending on the manner in which the respective part of the image is segmented based on the segmentation criteria, component or channels of a color model, image encoding representation (HLS, RGB, CMYK, YCC, LAB etc) among others. The toggle layer may designate, for each point, whether the foreground or background layer is effective. Each layer in a MRC can have different bit depths, resolution, color space, which allow, for example, the foreground layer to be compressed differently from the background layer. The MRC form of image data has previously been used to minimize storage requirements. Further, an MRC format has been proposed for use in color image fax transmission.

[0074] In one embodiment of present invention, the intermediate output data includes one or more rasterized output images that employ MRC format, encoding and or related compression method. In this implementation, different layers in the output image can have different resolutions and may include different compression techniques. Different information such as chrominance and luminance and or foreground and background information in the original content (e.g. digital document) can be segmented and compressed with different compression or encoding techniques. Segmented elements or object information in the original content can also be stored in different image layers and with different resolution. Therefore, with MRC, there is opportunity to reduce output data file size, retain greater image information, increase compression ratio, and improve image quality when compared to other conventional image encoding and compression techniques. Implementations of rasterization, raster image processing and

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intermediate output data that include MRC encoding in the present invention are described in more detail below.

Rasterization

[0075] Rasterization is an operation by which graphics and text in a digital document are converted to image data. For image data included in the digital document, rasterization may include scaling and interpolation. The rasterization operation is characterized by rasterization parameters including, among others bit depth and resolution. A given rasterization operation may be characterized by several more rasterization parameters, including output size, color space, color channels etc. Values of one or more of the rasterization parameters employed in a rasterization operation may be specified by default; values of one or more of the rasterization parameters may be supplied to the information apparatus as components of a rasterization vector. In a given application, the rasterization vector may specify a value of only one rasterization parameter, default values being employed for other rasterization parameters used in the rasterization operation. In another application the rasterization vector may specify values of more than one, but less than all, rasterization parameters, default values being employed for at least one other rasterization parameter used in the rasterization operation. And in yet another application the rasterization vector may specify values of all the rasterization parameters used in the rasterization operation.

[0076] Fig. 2A and 2B are block diagrams illustrating components of an operating environment that can implement the process and apparatus of present invention. Fig 2A shows an electronic system which includes an information apparatus 200 and an output device 220. The output device 220 includes an output controller 230. Fig. 2B illustrates a second implementation of an electronic system that includes an information apparatus 200 and an output system 250. The output system 250 includes an output device 220 and an output controller 230 which may be externally connected to, or otherwise associated with, the output device 220 in the output system 250.

[0077] Information apparatus 200 is a computing device with processing capability. In one embodiment, information apparatus 200 may be a mobile computing device such as palmtop computer, handheld device, laptop computer, personal digital assistant (PDA), smart phone, screen phone, e-book, Internet pad, communication pad, Internet appliance, pager, digital camera, etc. It is possible

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that information apparatus 200 may also include a static computing device such as a desktop computer, workstation, server, etc.

[0078] Fig. 3A and 3B are block diagrams illustrating examples of hardware/software components included in an information apparatus 200 of present invention.

[0079] Information apparatus 200 may contain components such as a processing unit 380, a memory unit 370, an optional storage unit 360 and an input/output control unit (e.g. communication manager 330). Information apparatus 200 may include an interface (not shown) for interaction with users. The interface may be implemented with software or hardware or a combination. Examples of such interfaces include, without limitation, one or more of a mouse, a keyboard, a touch-sensitive or non-touch-sensitive screen, push buttons, soft keys, a stylus, a speaker, a microphone, etc.

[0080] Information apparatus 200 typically contains one or more network communication unit 350 that interfaces with other electronic devices such as network node (not shown), output device 220, and output system 230. The network communication unit may be implemented with hardware (e.g., silicon chipsets, antenna), software (e.g., protocol stacks, applications) or a combination.

[0081] In one embodiment of the present invention, communication interface 240 between information apparatus 200 and output device 220 or output system 250 is a wireless communication interface such as a short-range radio interface including those implemented according to the Bluetooth or IEEE 802.11 standard. The communication interface may also be realized by other standards and/or means of wireless communication that may include radio, infrared, cellular, ultrasonic, hydrophonic among others for accessing one or more network node and/or devices. Wired line connections such as serial or parallel interface, USB interface and fire wire (IEEE 1394) interface, among others, may also be included. Connection to a local network such as an Ethernet or a token Ring network, among others, may also be implemented in the present invention for local communication between information apparatus 200 and output device 220. Examples of hardware/software components of communication units 350 that may be used to implement wireless interface between the information apparatus 200 and the output device 220 are described in more detail with reference to Figs. 8A and 8B below.

[0082] For simplicity, Fig. 3 illustrates one implementation where an information apparatus 200 includes one communication unit 350. However, it should be noted that an information apparatus 200

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may contain more than one communication unit 350 in order to support different interfaces, protocols, and/or communication standards with different devices and/or network nodes. For example, information apparatus 200 may communicate with one output device 220 through a Bluetooth standard interface or through an IEEE 802.11 standard interface while communicating with another output device 220 through a parallel cable interface. The information apparatus 200 may also be coupled to a wired or wireless network (e.g. the Internet or corporate network) to send, receive and/or download information.

[0083] Information apparatus 200 may be a dedicated device (e.g., email terminal, web terminal, digital camera, e-book, web pads, Internet appliances etc.) with functionalities that are pre-configured by manufacturers. Alternatively, information apparatus 200 may allow users to install additional hardware components and or application software 205 to expand its functionality.

[0084] Information apparatus 200 may contain a plurality of applications 205 to implement its feature sets and functionalities. As an example, a document browsing or editing application may be implemented to help user view and perhaps edit, partially or entirely, digital documents written in certain format or language (e.g., page description language, markup language, etc.). Digital documents may be stored locally in the information apparatus 200 or in a network node (e.g., in content server). An example of a document browsing application is an Internet browser such as Internet Explorer, Netscape Navigator, or a WAP browser. Such browsers may retrieve and display content (e.g. digital content) written in mark-up languages such as HTML, WML, XML, CHTML, HDML, among others. Other examples of software applications in the information apparatus 200 may include a document editing software such as Microsoft Word™ which also allows users to view and or edit digital documents that have various file extensions (e.g., doc, rtf, html, XML etc.) whether stored locally in the information apparatus 200 or in a network node. Still, other example of software applications 205 may include image acquisition and editing software.

[0085] As illustrated previously with reference to Fig. 1, there are many difficulties in providing output capability to an information apparatus 200 that has limited memory and processing capability. To address theses difficulties, information apparatus 200 includes a client application 210 that helps provide the universal data output capability of the present invention. Client

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application 210 may include software and data that can be executed by the processing unit 380 of information apparatus 200. Client application 210 may be implemented as a stand-alone software application or as a part of or feature of another software application, or in the form of a device driver, which may be invoked, shared and used by other application software 205 in the information apparatus 200. Client application 210 may also include components to invoke other applications 205 (e.g., a document browsing application, editing application, data and/or image acquisition application, a communication manager, a output manager etc.) to provide certain feature sets, as described below. Fig 3 illustrates a configuration where the client application 210 is a separate application from the other application 205 such as the case when the client application is a device driver; however, it should be noted that the client application 210 can be combined or being part of the other application not shown in Fig 3. Client application 210 may be variously implemented in an information apparatus 200 and may run on different operating systems or platforms. The client application 210 may also run in an environment with no operating system. For example, Fig. 3A illustrates an implementation where the information apparatus 200A includes an operating system 340A; while Fig. 3B illustrates an implementation where the information apparatus 200B does not include an operating system.

[0086] Client application 210 includes a rasterization component 310 to conform content into one or more raster output images according to one or more rasterization parameters; an intermediate output data generator component 320 that generates and/or encodes intermediate output data that includes the one or more output images; and a communications manager 330 that manages the communication and interaction with an output device 220 or system 250 or output controller 230. Communications manager can be implemented as part of the client application 210 (shown in Fig. 3) or as a separate application (not shown). Components in a client application can be implemented in software, hardware or combination. As an example, client application 210 may include or utilize one or more of the following:

- Components or operations to obtain content (e.g. digital document) for output. The client application 210 may obtain a digital document from other applications 205 (e.g. document browsing application, content creation and editing application,

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etc.), or the client application 210 may provide its own capability for user to browse, edit and or select a digital document.

• Components or operations to rasterize content that includes text, graphics and images among others objects or elements into one or more raster images according to a set of rasterization parameters such as scale factor, output size, bit depth, color space and resolution. The rasterization parameters may be obtained in various ways, for example, from an output device profile uploaded from an output device 220, or stored locally in information apparatus 200, or manually inputted by a user. Alternatively, rasterization parameters may be based on a predefined standard or specification stored in the information apparatus 200 as a set of defaults, or hard-coded in the client application 210, or calculated by the client application 210 after communicating with an output device 220, output controller 230, and/or a user.

• Components or operations to generate intermediate output data that includes at least one rasterized output image corresponding to the content (e.g. digital document). This process may further include one or combination of compression, encoding, encryption and color correction among others. The intermediate output data may include, for example, images, instructions, documents and or format descriptions, color profiles among others.

• Components or operations to transmit the intermediate output data to an output device 220 or system 250 through wired or wireless communication link 240.

[0087] The client application 210 may also optionally include or utilize one or more of the following components or operations:

• Components or operations to communicate with one or more output devices 220 to upload an output device profile.

• Components or operations to communicate directly or indirectly (such as through an operating system or component or object model, messages, file transfer etc.) with other applications 205 residing in the same information apparatus 200 to obtain objects, data, and or content needed, or related to the pervasive output process of present invention (e.g. obtain a digital document for printing).

• Components or operations to manage and utilize directly or indirectly functionalities provided by hardware components (e.g. communication unit 350) residing in its host information apparatus 200.

• Components or operations to provide a graphical user

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interface (GUI) in host information apparatus to interact with user.

• Components or operations to obtain user preferences. For example, a user may directly input his or her preferences through a GUI. A set of default values may also be employed. Default values may be pre-set or may be obtained by information apparatus 200 as result of communicating and negotiating with an output device 220 or output controller 230.

[0088] The above functionalities and process of client application 210 of present invention are described in further detail in the client application process with reference to FIG 12.

[0089] Output device 220 is an electronic system capable of outputting digital content regardless of whether the output medium is substrate (e.g., paper), display, projection, or sound. A typical example of output device 220 is a printer, which outputs digital documents containing text, graphics, image or any combination onto a substrate. Output device 220 may also be a display device capable of displaying still images or video, such as, without limitation, televisions, monitors, and projectors. Output device 220 can also be a device capable of outputting sound. Any device capable of playing or reading digital content in audio (e.g., music) or data (e.g., text or document) formats is also a possible output device 220.

[0090] A printer is frequently referred to herein as an example of an output device to simplify discussion or as the primary output device 220 in a particular implementation. However, it should be recognized that present invention applies also to other output devices 220 such as fax machines, digital copiers, display screens, monitors, televisions, projectors, voice output devices, among others.

[0091] Rendering content with an output device 220 refers to outputting the content on a specific output medium (e.g., papers, display screens etc). For example, rendering content with a printer generates an image on a substrate; rendering content with a display device generates an image on a screen; and rendering content with an audio output device generates sound.

[0092] A conventional printing system in general includes a raster image processor and a printer engine. A printer engine includes memory buffer, marking engine among other components. The raster image processor converts content into an image form suitable for printing; the memory buffer holds the rasterized image ready

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for printing; and the marking engine transfers colorant to substrate (e.g., paper).

[0093] The raster image processor may be located within an output device (e.g. included in a printer controller 410) or externally implemented (in an information apparatus 200, external controller, servers etc). Raster image processor can be implemented as hardware, software, or a combination (not shown). As an example, raster image processor may be implemented in a software application or device driver in the information apparatus 200. Examples of raster image processing operations include image and graphics interpretation, rasterization, scaling, segmentation, color space transformation, image enhancement, color correction, halftoning, compression etc.

[0094] Fig. 4A illustrates a block diagram of one conventional printing system or printer 400A that includes a printer controller 410 and a printer engine 420A. The printer controller 410 includes an interpreter 402 and a raster image processor 406, and the printer engine 420 includes memory buffer 424A and a marking engine 426A.

[0095] Marking engine may use any of a variety of different technologies to transfer a rasterized image to paper or other media or, in other words, to transfer colorant to a substrate. The different marking or printing technologies that may be used include both impact and non-impact printing. Examples of impact printing may include dot matrix, teletype, daisywheel, etc. Non-impact printing technologies may include inkjet, laser, electrostatic, thermal, dye sublimation, etc.

[0096] The marking engine 426 and memory buffer 424 of a printer form its printer engine 420, which may also include additional circuitry and components, such as firmware, software or chips or chipsets for decoding and signal conversion, etc. Input to a printer engine 420 is usually a final rasterized printer-engine print data generated by a raster image processor 406. Such input is usually device dependent and printer or printer engine specific. The printer engine 420 may take this device dependent input and generate or render output pages (e.g. with ink on a substrate).

[0097] When a raster image processor is located inside an output device 220, it is usually included in a printer controller 410 (as shown in Fig. 4A). A printer controller 410 may interpret, rasterize, and convert input print data in the form of a page description language (e.g., PostScript, PCL), markup language

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(e.g., XML, HTML) or other special document format or language (e.g. PDF, EMF) into printer-engine print data which is a final format, language or instruction that printer engine 420A can understand.

[0098] Print data sent to a printer with printer controller 410 is usually in a form (e.g. postscript) that requires further interpretation, processing or conversion. A printer controller 410 receives the print data, interprets, process, and converts the print data into a form that can be understood by the printer engine 420A. Regardless of the type of print data, conventionally, a user may need a device-specific driver in his or her information apparatus 200 in order to output the proper language, format, or file that can be accepted by a specific printer or output device 220.

[0099] Fig. 4B illustrates another conventional output device 400B. Output device 400B may be a printing device, a display device, a projection device, or a sound device. In the case that the output device is a printing device or a printer, the printer with reference to Fig. 4B does not include a printer controller 410. As an example, printer 400B may be a low-cost printer such as a desktop inkjet printer. RIP operations in this example may be implemented in a software application or in a device driver included in an information apparatus 200. The information apparatus 200 generates device dependent output data (or print data in case of a printer) by rasterizing and converting a digital document into output data (e.g. into a compressed CMKY data with one or more bits per pixel) that can be understood by an output engine (or printer engine in case of a printer) 420B.

[0100] Regardless of type or sophistication level, different output device 220 conventionally needs different printer drivers or output management applications in an information apparatus 200 to provide output capability. Some mobile devices with limited memory and processing power may have difficulty storing multiple device drivers or perform computational intensive RIP operations. It may also be infeasible to install a new device dependent or specific printer driver each time there is a need to print to a new printer. To overcome these difficulties, present invention provides several improvements to output device 220 or output system 250 as described in detail next.

[0101] In present invention, output device 220 may include an output controller 230 to help managing communication and negotiation processes with an information apparatus 200 and to

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process output data. Output controller 230 may include dedicated hardware or software or combination of both for at least one output device 220. Output controller 230 may be internally installed, or externally connected to one or more output devices 220. The output controller 230 is sometimes referred to as a print server or output server.

[0102] Fig 5A and 5B illustrate two exemplary internal implementations of the output controller 230 of present invention. Fig 5A illustrates the implementation of an output controller 230 inside a conventional printer with reference to Fig. 4A, which includes a conventional printer controller 410(5A). The output controller 230(5A) includes an interpreter 510A component for decoding the intermediate output data of present invention; and a converter component 530A for converting one or more decoded output images into a printer-controller print data that is suitable for input to the printer controller 410(5A). An optional image processing component 520A may be included in the output controller 230(5A).

[0103] Fig 5B illustrates the implementation of an output controller 230 included internally in a conventional output device 220 with reference to Fig. 4B, which does not include a printer controller. The output controller 230(5B) includes an interpreter 510B component for decoding the intermediate output data of present invention; an image processor 520B component for performing one or more image processing operations such as color space conversion, color matching and digital halftoning; and an optional encoder 530B component to conform the processed output images into an output-engine output data that is suitable for input to the output engine 420B if the result of the image processing is not already in required form suitable for the output engine 420B.

[0104] In one implementation, output device 220 may include a communication unit 550 or adapter to interface with information apparatus 200. Output device 220 may sometimes include more than one communication unit 550 in order to support different interfaces, protocols, or communication standards with different devices. For example, output device 220 may communicate with a first information apparatus 200 through a Bluetooth interface while communicating with a second information apparatus 200 through a parallel interface. Examples of hardware components of a wireless communication unit are described in greater detail below with reference to Figs. 8A and 8B.

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[0105] In one embodiment, output controller 230 does not include a communication unit, but rather utilizes or manages a communication unit residing in the associated output device 220 such as the illustration in Fig 5. In another embodiment, output controller 230 may include or provide a communication unit to output device 220 as shown in Fig. 6. For example, an output controller 230 with a wireless communication unit may be installed internally or connected externally to a legacy printer to provide it with wireless communication capability that was previously lacking.

[0106] Fig. 6 includes three functional block diagrams illustrating the hardware/software components of output controller 230 in three different implementations. Each components of an output controller 230 may include software, hardware, or combination. For example, an output controller 230 may include components using one or more or combinations of an application-specific integrated circuit (ASIC), a digital signal processor (DSP), a field programmable gate array (FPGA), firmware, system on a chip, and various communication chip sets. Output controller 230 may also contain embedded processors 670 A with software components or embedded application software to implement its feature sets and functionalities.

[0107] Output controller 230 may contain an embedded operating system 680. With an operating system, some or all functionalities and feature sets of the output controller 230 may be provided by application software managed by the operating system. Additional application software may be installed or upgraded to newer versions in order to, for example, provide additional functionalities or bug fixes. Fig. 6A and Fig 6C illustrates examples of implementation with an operating system 680 while Fig. 6B illustrates an example without the operating system 680 or the optional embedded processor 670.

[0108] Output controller 230 typically includes a memory unit 640, or may share a memory unit with, for example, printer controller 410. The memory unit and storage unit, such as ROM, RAM, flash memory and disk drive among others, may provide persistent or volatile storage. The memory unit or storage unit may store output device profiles, objects, codes, instructions or data (collectively referred to as software components) that implement the functionalities of the output controller 230. Part of the software components (e.g., output device profile) may be

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uploaded to information apparatus 200 during or before a data output operation.

[0109] An output controller 230 may include a processor component 670A and 670C, a memory component 650, an optional storage component 640, and an optional operating system component 680. Fig. 6 shows one architecture or implementation where the memory 650, storage 640, processor 670, and operating system 680 components, if exist, can be share or accessed by other operational components in the output controller 230 such as the interpreter 610 and image processor 650. Fig 6 shows two communication units 660A and 660B included in the output controller 230; however, the output controller 230 of present invention may include any number of communication units 660. It is also possible that the output controller does not contain any communication unit but rather utilizes the communication unit of an output device.

[0110] The output controller 230 may be connected externally to an output device 220 or integrated internally into the output device 220. Fig 5A and 5B illustrate implementations of output controller 230 inside an output device 220. The output controller 230, however, may also be implemented as an external box or station that is wired or wirelessly connected to an output device 220. An output controller 230 implemented as an external box or station to an output device 220 may contain its own user interface. One example of such an implementation is a print server connected to an output device 220 in an output system 250. Another configuration and implementation is to integrate or combine the functionalities of an output controller 230 with an existing printer controller 410 (referred to as "combined controller") if the output device 220 is a printer as shown with reference to Fig. 7C or 7F. A combined controller can also be internally integrated or externally connected to output device 220, and include functionalities of both printer controller 410 (e.g., input interpretation and or raster image processing) and output controller 230 of present invention. One advantage of this configuration is that the functionalities or components of output controller 230 and printer controller 410 may share the same resources, such as processing unit, memory unit, etc. Fig 6C illustrates an example of a combined controller implementation or output controller 230 where the printer controller 410C, interpreter 610C and converter 630C shares the use of the processor 670C, memory 650C and storage 640C, managed by an operating system 680C. Various exemplary implementations and configurations of an output controller 230 with respect to an

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output device 220 or output system 250 are illustrated in further detail with reference to FIG 7.

[0111] Other possible implementations of output controller 230 may include, for example, a conventional personal computer (PC), a workstation, and an output server or print server. In these cases, the functionalities of output controller 230 may be implemented using application software installed in a computer (e.g., PC, server, or workstation), with the computer connected with a wired or wireless connection to an output device 220. Using a PC, server, workstation, or other computer to implement the feature sets of output controller 230 with application software is just another possible embodiment of the output controller 230 and in no way departs from the spirit, scope and process of the present invention.

[0112] The difference between output controller 230 and printer controller 410 should be noted. Printer controller 410 and output controller 230 are both controllers and are both dedicated hardware and or software for at least one output device 220. Output controller 230 refers to a controller with feature sets, capabilities, and functionalities of the present invention. A printer controller 410 may contain functions such as interpreting an input page description language, raster image processing, and queuing, among others. An output controller 230 may include part or all of the features of a printer controller 410 in addition to the feature sets, functionalities, capabilities, and processes of present invention.

[0113] Functionalities and components of output controller 230 for the purpose of providing universal data output may include or utilize:

- Components and operations to receive output data from a plurality of information apparatus 200; the output data may include an intermediate output data containing at least one rasterized image related to the data content intended for output.
- Components and operations to interpret and/or decode the intermediate output data.
- Components and operations to process the intermediate output data. Such components and operations may include image processing functions such as scaling, segmentation, color correction, color management, GCR, image enhancement, decompression, decryption, and or halftoning among others.

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• Components and operations to generate an output-engine output data, the output-engine output data being in an output data format acceptable for input to an output engine.

• Components and operations to send the output-engine output data to the output engine.

[0114] When associated with an output device 220 that includes a printer controller 410, the output controller of present invention may further include or utilize:

• Components and operations to convert the intermediate output data into a printer-controller print data (e.g. a PDL such as PostScript and PCL), the printer-controller print data being in a format acceptable to a printer controller.

• Components and operations to send printer-controller print data to one or more printer controllers.

[0115] In addition to the above components and functionalities, output controller 230 may further include one or more of the following:

• Components and operations to communicate with one or more information apparatus 200 through a wired or wireless interface.

• Components and operations to communicate and or manage a communication unit included in the output controller 230 or output device 220.

• Components and operations to store at least part of an output device profile (a printer profile in case of a printer) in a memory component.

• Components and operations to respond to service request from an information apparatus 200 by transmitting at least part of an output device profile to the information apparatus requesting service. The output controller 230 may transmit the output device profiles or object in one or multiple sessions.

• Components and operations to broadcast or advertise the services provided by a host output device 220 to one or more information apparatus 200 that may request such services.

• Components and operations to implement payment processing and management functions by, for example, calculating and processing payments according to the services requested or rendered to a client (information apparatus 200).

• Components and operations to provide a user interface such as display screen, touch button, soft key, etc.

• Components and operations to implement job management functions such as queuing and spooling among others.

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• Components and operations to implement security or authentication procedures. For example, the output controller 230 may store in its memory component (or shared memory component) an access control list, which specifies what device or user may obtain service from its host (or connected) output device 220. Therefore, an authorized information apparatus 200 may gain access after confirming with the control list.

[0116] When output controller 230 is implemented as firmware, or an embedded application, the configuration and management of the functionalities of output controller 230 may be optionally accomplished by, for example, using controller management software in a host computer. A host computer may be a desktop personal computer (PC), workstation, or server. The host computer may be connected locally or through a network to the output device 220 or the controller 230. Communication between the host computer and the output controller 230 can be accomplished through wired or wireless communication. The management application software in the host computer can manage the settings, configurations, and feature sets of the output controller 230. Furthermore, host computer's configuration application may download and or install application software, software components and or data to the output controller 230 for the purpose of upgrading, updating, and or modifying the features and capabilities of the output controller 230.

[0117] Output device 220 in one implementation includes or is connected to output controller 230 described above. Therefore, functionalities and feature sets provided by output controller 230 are automatically included in the functionalities of output device 220. The output device 220 may, however, implement or include other controllers and/or applications that provide at least partially the features and functionalities of the output controller 230.

[0118] Therefore, the output device 220 may include some or all of the following functionalities:

• Components and operations to receive multiple service requests or queries (e.g., a service request, a data query, an object or component query etc.) from a plurality of information apparatus 200 and properly respond to them by returning components, which may contain data, software, instructions and/or objects.

• Components and operations to receive output data from a plurality of information apparatus 200; the output data may include an intermediate output data containing one or more rasterized image related to the content intended for output.

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• Components and operations to interpret and/or decoding the intermediate output data.

• Components and operations to process and/or convert the intermediate output data into a form (e.g. output-engine print data) suitable for rendering at an output engine associated with the output device.

• Components and operations to render a representation or an image related to the content onto an output medium (e.g. substrate or a display screen).

[0119] An output device 220 may further comprise optionally one or more of the following functionalities:

• Components and operations for establishing and managing a communication link with an information apparatus 200 requesting service; the communication link may include wired or wireless communication.

• Components and operations for storing at least part of an output device profile (e.g. printer profile) in a memory component.

• Components and operations to provide at least part of an output device profile (e.g., printer profile in case of a printer) to one or more information apparatus 200 requesting service. The output device 220 may transmit the output device profile in one or multiple sessions.

• Components and operations to advertise or broadcast services provided or available to one or more information apparatus 200.

• Components and operations to implement payment processing and management functions by, for example, calculating and processing payments according to the services requested by or rendered to a client (information apparatus 200).

• Components and operations to implement job management functionalities such as queuing and spooling among others.

• Components and operations to provide a user interface such as display screen touch button, soft key, power switch, etc.

• Components and operations to implement security or authentication procedures. For example, the output device 220 may store in its memory component (or a shared memory component) an access control list, which specifies what device or user may obtain service from it. Therefore, an authorized information apparatus 200 may gain access after confirming with the control list.

[0120] Figs. 7A - 7F illustrate various alternative configurations and implementations of output controller 230 with respect to an output device 230. Printer is sometimes used as an

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exemplary output device 230 to demonstrate the various configurations. It should be understood, however, the output device 230 of present invention is not limited to printers.

[0121] As described with reference to Fig 4., a printer may or may not contain a printer controller 410. Printer 400A that includes a printer controller 410 typically has higher speed and is more expensive than printer 400B which does not include a printer controller 410.

[0122] Fig. 7A shows that output controller 230 may be cascaded externally to one or more printers (only one shown). Information apparatus 200 communicates with output controller 230A, which then communicates with output device 220 such as a printer 220A. The communication link between the output controller 230A and the printer 220A may be a wired link or a wireless link, as described above. Fig 6A and 6B illustrates two examples of functional component design of the output controller that can implement the configuration illustrated in Fig 7A. The Image processor 620 in this implementation is optional.

[0123] Fig. 7B shows another implementation in which output controller 230B is installed as one or more circuit boards or cards internally inside printer 220B. The output controller 230B may co-exist with printer controller 410 and other components of the printer 220B. One example of this implementation is to connect output controller 230B sequentially with the printer controller 310. Fig 5A shows as an example of an implementation.

[0124] Fig. 7C shows another implementation in which the functionalities of output controller 230 and printer controller 410 are combined into a single controller (referred to as "combined controller") 230C. In this implementation, it is possible to reduce the cost of material when compared to implementing two separate controllers as shown in Fig 7B. As an example, the combined controller 230C may share the same processors, memories, and storages to run the applications and functionalities of the two types of controllers and therefore, may have lower component costs when compared to providing two separate controllers. Fig. 6C illustrates an example of a combined controller functional component implementation.

[0125] Some printers do not include a raster image processor or printer controller 410, as illustrated in Fig. 4B. An example of this type of printer is a lower cost desktop inkjet printer. Input to an inkjet printer may consist of a compressed CMYK data (proprietary or published) with one or more bits per pixel input.

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To output to a printer that does not include a printer controller, a device specific software application or a printer driver is typically required in an information apparatus 200 to perform raster image processing operations. Accordingly, output controller 230 can be implemented into a variety of output devices 220 and/or output systems 250 including printers that do not have printer controllers for performing raster image processing operations.

[0126] Fig. 7D and Fig 7E illustrate two implementations of output controller 230 in an output device 220 or system 250. The output device 230 or system 250 may include a display device, a projection device, an audio output device or a printing device. In the case when the output device 220D or 220E is a printer, it does not include a printer controller. Fig. 7D illustrates an implementation of an output controller 230D installed as an external component or "box" to output device 220D. For example, the output controller 230 may be implemented as an application in a print server or as a standalone box or station. In this configuration, some or all of raster image processing operations may be implemented in the output controller 230D. Output controller 230D receives intermediate output data from an information apparatus 200 and generates output-engine output data that is acceptable to the output engine included in the output device 220D. The output controller 230D may send the output data to the output device 220D through a wired or wireless communication link or connection. Fig 6A and 6B illustrates two example of functional component design of the output controller that can implement the configurations for both Fig. 7D and 7E.

[0127] Fig. 7E shows a fifth implementation of output controller 230E in which the output controller 230E is incorporated within output device 220E as one or more circuit boards or cards and may contain software and applications running on an embedded processor. As with output device 220D (Fig. 7D), output device 220E does not include a printer controller 410. Accordingly, the output controller 230E implements the functionalities and capabilities of present invention that may include part of or complete raster imaging processing operation.

[0128] Fig. 7F shows a sixth implementation, an external combined controller 230F that integrates the functionalities of a printer controller 310 and an output controller into a single external combined controller component or "box" 230F. The two controller functions may share a common processor as well as a common memory space to run applications of the two types of

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controllers. Under this configuration, either information apparatus 200 or the combined controller 230F could perform or share at least part of raster image processing functionality. Fig. 6C shows an example of functional components of a combined controller 230F.

[0129] Another implementation of the combined controller 230F shown in Fig 7F is to use an external computing device (PC, workstation, or server) running one or more applications that include the functionality of output controller 230 and printer controller 410.

[0130] The above are examples of different implementations and configurations of output controller 230. Other implementations are also possible. For example, partial functionalities of output controller 230 may be implemented in an external box or station while the remaining functionalities may reside inside an output device 220 as a separate board or integrated with a printer controller 410. As another example, the functionalities of output controller 230 may be implemented into a plurality of external boxes or stations connected to the same output device 220. As a further example, the same output controller 230 may be connected to service a plurality of output devices 220

[0131] Figs. 8A and 8B are block diagrams illustrating two possible configurations of hardware/software components of wireless communication units. These wireless communication units can be implemented and included in information apparatus 200, in output controller 230 and in output device 220. Referring to Fig. 8A, a radio adapter 800 may be implemented to enable data/voice transmission among devices (e.g., information apparatus 200 and output device 220) through radio links. An RF transceiver 814 coupled with antenna 816 is used to receive and transmit radio frequency signals. The RF transceiver 814 also converts radio signals into and from electronic signals. The RF transceiver 814 is connected to an RF link controller 810 by an interface 812. The interface 812 may perform functions such as analog-to-digital conversion, digital-to-analog conversion, modulation, demodulation, compression, decompression, encoding, decoding, and other data or format conversion functions.

[0132] RF link controller 810 implements real-time lower layer (e.g., physical layer) protocol processing that enables the hosts (e.g., information apparatus 200, output controller 230, output device 220, etc.) to communicate over a radio link. Functions performed by the link controller 810 may include, without limitation, error detection/correction, power control, data packet

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processing, data encryption/decryption and other data processing functions.

[0133] A variety of radio links may be utilized. A group of competing technologies operating in the 2.4 GHz unlicensed frequency band is of particular interest. This group currently includes Bluetooth, Home radio frequency (Home RF) and implementations based on IEEE 802.11 standard. Each of these technologies has a different set of protocols and they all provide solutions for wireless local area networks (LANs). Interference among these technologies could limit deployment of these protocols simultaneously. It is anticipated that new local area wireless technologies may emerge or that the existing ones may converge. Nevertheless, all these existing and future wireless technologies may be implemented in the present invention without limitation, and therefore, in no way depart from the scope of present invention.

[0134] Among the currently available wireless technologies, Bluetooth may be advantageous because it requires relatively lower power consumption and Bluetooth-enabled devices operate in piconets, in which several devices are connected in a point-to-multipoint system. Referring to Fig. 8B, one or more infrared (IR) adapters 820 may be implemented to enable data transmission among devices through infrared transmission. The IR adapters 820 may be conveniently implemented in accordance with the Infrared Data Association (IrDA) standards and specifications. In general, the IrDA standard is used to provide wireless connectivity technologies for devices that would normally use cables for connection. The IrDA standard is a point-to-point (vs. point-to-multipoint as in Bluetooth), narrow angle, ad-hoc data transmission standard.

[0135] Configuration of infrared adapters 820 may vary depending on the intended rate of data transfer. Fig. 8B illustrates one embodiment of infrared adapter 820. Transceiver 826 receives/emits IR signals and converts IR signals to/from electrical signals. A UART (universal asynchronous receiver/transmitter) 822 performs the function of serialization/deserialization, converting serial data stream to/from data bytes. The UART 822 is connected to the IR transceiver 826 by encoder/decoder (ENDEC) 824. This configuration is generally suitable for transferring data at relatively low rate. Other components (e.g., packet framer, phase-locked loop) may be needed for higher data transfer rates.

[0136] Figs. 8A and 8B illustrate exemplary hardware configurations of wireless communication units. Such hardware

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components may be included in devices (e.g., information apparatus 200, output controller 230, output device 220, etc.) to support various wireless communications standards. Wired links, however, such as parallel interface, USB, Firewire interface, Ethernet and token ring networks may also be implemented in the present invention by using appropriate adapters and configurations.

[0137] FIG 9 is a logic flow diagram of an exemplary raster imaging process (RIP) 902 that can implement the universal output method of present invention. Content (e.g. digital document) 900 may be obtained and/or generated by an application running in an information apparatus 200. For example, a document browsing application may allow a user to download and or open digital document 900 stored locally or in a network node. As another example, a document creating or editing application may allow a user to create or edit digital documents in his/her information apparatus 200.

[0138] A client application 210 in the information apparatus may be in the form of a device driver, invoked by other applications residing in the information apparatus 200 to provide output service. Alternatively, the client application 210 of present invention may be an application that includes data output and management component, in addition of other functionalities such as content acquisitions, viewing, browsing, and or editing etc. For example, a client application 210 in an information apparatus 200 may itself include components and functions for a user to download, view and or edit digital document 900 in addition of the output management function described herein.

[0139] Raster image process method 902 allows an information apparatus 200 such as a mobile device to pervasively and conveniently output content (e.g. a digital document) to an output device 220 or system 250 that includes an output controller 230. A client application 210 in an information apparatus 200 may perform part of raster image processing operations (e.g. rasterization operation). Other operations of raster image processing such as halftoning can be completed by the output device 220 or by the output controller 230. In conventional data output methods, raster image processing is either implemented entirely in an information apparatus (e.g. a printer that does not include a printer controller with reference to Fig. 1A) or in an output device (e.g. a printer that includes a printer controller with reference to Fig. 1B). Present invention provides a more balanced approach where raster image process operations are shared between an information

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apparatus 200 and an output device 220 or system 250. For example, content 600 may be processed (e.g. raster image processed) by different components or parts of an overall output system from a client application 210 to an output controller 230 before being sent to an output engine or a printer engine for final output in step 960. Because the raster image processing operations are not completely implemented in the information apparatus 200, there is less processing demand on the information apparatus 200. Therefore, present RIP process may enable additional mobile devices with less memory and processing capability to have data output capability.

[0140] In step 910, rasterization operation, a content (e.g. digital document), which may include text, graphics, and image objects, is conformed or rasterized to image form according to one or more rasterization parameters such as output size, bit depth, color space, resolution, number of color channels etc. During the rasterization operation, text and vector graphics information in the content are rasterized or converted into image or bitmap information according to a given set of rasterization parameters. Image information in the content or digital document may be scaled and or interpolated to fit a particular output size, resolution and bit depth etc. The rasterization parameters are in general device dependent, and therefore may vary according to different requirements and attributes of an output device 220 and its output engine. There are many ways to obtain device dependent rasterization parameters, as described in more detail below with reference to Fig 12A. Device dependent rasterization parameters, in one example, may be obtained from an output device profile stored in an information apparatus 200, an output device 220 or an output controller 230.

[0141] In an alternative implementation, rasterization parameters may be predetermined by a standard or specification. In this implementation, in step 910 the content 900 is rasterized to fit or match this predefined or standard rasterization parameters. Therefore, the rasterized output image becomes device independent. One advantage of being device independent is that the rasterized output image is acceptable with controllers, devices and/or output devices implemented or created with the knowledge of such standard or specification. A rasterized image with predefined or standardized attributes is usually more portable. For example, both the client application 210 and output device 220 or its output controller 230 may be preprogrammed to receive, interpret, and or

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output raster images based on a predefined standard and/or specification.

[0142] Occasionally, a predefined standard or specification for rasterization parameters may require change or update. One possible implementation for providing an easy update or upgrade is to store information and related rasterization parameters in a file or a profile instead of hard coding these parameters into programs, components or applications. Client application 210, output controller 230, and/or the output device 220 can read a file or a profile to obtain information related to rasterization parameters. To upgrade or update the standard specification or defaults requires only replacing or editing the file or the profile instead of replacing a software application or component such as the client application 210.

[0143] In step 920 the rasterized content in image form is encoded into an intermediate output data. The intermediate output data, which describes the output content, may include image information, instructions, descriptions, and data (e.g. color profile). The rasterized output image may require further processing including one or more of compression, encoding, encryption, smoothing, image enhancement, segmentation, color correction among others before being stored into the intermediate output data. The output image in the intermediate output data may be encoded in any image format and with any compression technique such as JPEG, BMP, TIFF, JBIG etc. In one preferred embodiment, a mixed raster content (MRC) format and its related encoding and/or compression methods are used to generate the output image. The advantages of using MRC over other image formats and techniques may include, for example, better compression ratio, better data information retention, smaller file size, and or relatively better image quality among others.

[0144] In step 930, the intermediate output data is transmitted to the output device 220 or output system 250 for further processing and final output. The transmission of the intermediate output data may be accomplished through wireless or wired communication links between the information apparatus 200 and the output device 220 and can be accomplished through one or multiple sessions.

[0145] In step 940, the output device 220 or output system 250 receives the transmitted intermediate output data. The output device 220 or output system 250 may include an output controller 230 to assist communicating with the information apparatus 200

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and/or processing the intermediate output data. Output controller 230 may have a variety of configurations and implementations with respect to output device 220 as shown in Fig. 7A-7F. Interpretation process 940 may include one or more of parsing, decoding, decompression, decryption, image space conversion among other operations if the received intermediate output data requires such processing. An output image is decoded or retrieved from the intermediate output data and may be temporarily stored in a buffer or memory included in the output device/output system (220/250) or output controller 230 for further processing.

[0146] If the intermediate output data includes components with MRC format or encoding techniques, it may contain additional segmented information (e.g. foreground and background), which can be used to enhance image quality. For example, different techniques or algorithms in scaling, color correction, color matching, image enhancement, anti-aliasing and or digital halftoning among others may be applied to different segments or layers of the image information to improve output quality or maximize retention or recovery of image information. Multiple layers may later be combined or mapped into a single layer. These image processing and conversion components and/or operations can be included in the output controller 230 of present invention.

[0147] In step 950, the decoded or retrieved output image from the intermediate output data may require further processing or conversion. This may include one or more of scaling, segmentation, interpolation, color correction, GCR, black generation, color matching, color space transformation, anti-aliasing, image enhancement, image smoothing and or digital halftoning operations among others.

[0148] In an embodiment where the output device 220 does not include a printer controller, an output controller 230 or an output device 220 that includes output controller, after performing the remaining portion of RIP operations (e.g. color space conversion and halftoning) on the output image, may further convert the output data in step 950 into a form that is acceptable for input to a printer engine for rendering.

[0149] In an alternative embodiment where the output device 220 or the output system 250 includes a conventional printer controller, the output controller may simply decodes and or converts the intermediate output data (print data in this example) into format or language acceptable to the printer controller. For example, a printer controller may require as input a page

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description language (e.g. PostScript, PCL, PDF, etc.), a markup language (HTML, XML etc) or other graphics or document format. In these cases, the output controller 230 may interpret, decompress and convert the intermediate print data into an output image that has optimal output resolution, bit depth, color space, and output size related to the printer controller input requirements. The output image is then encoded or embedded into a printer-controller print data (e.g. a page description language) and sent to the printer controller. A printer-controller print data is a print data that is acceptable or compatible for input to the printer controller. After the printer controller receives the printer-controller print data, the printer controller may further perform operations such as parsing, rasterization, scaling, color correction, image enhancement, halftoning etc on the output image and generate an appropriate printer-engine print data suitable for input to the printer engine.

[0150] In step 960, the output-engine output data or printer-engine print data generated by the output controller 230 or the printer controller in step 950 is sent to the output engine or printer engine of the output device for final output.

[0151] Fig. 10 illustrates a flow diagram of a universal data output process of the present invention that includes the raster image processing illustrated with reference to Fig. 9. A universal data output process allows an information apparatus 200 to pervasively output content or digital document to an output device. The data output process may include or utilize:

- A user interface component and operation where a user initiates an output process and provides an indication of the selected output content (e.g. digital document) for output.
- A client application component or operation that processes the content indicated for output, and generates an intermediate output data. The intermediate output data may include at least partly a raster output image description related to the content.
- An information apparatus component or operation that transmits the intermediate output data to one or more selected output device 220.
- An output device component (e.g. output controller) or operation that interprets the intermediate output data and may further process or convert the output data into a form more acceptable to an output engine for rendering of the content.

[0152] With reference to Fig. 10, a user in step 1000 may initiate the universal output method or process 1002. Typically, a

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user initiates the output process by invoking a client application 210 in his/her information apparatus 200. The client application 210 may be launched as an independent application or it may be launched from other applications 205 (such as from a document browsing, creating or editing application) or as part of or component of or a feature of another application 205 residing in the same information apparatus 200. When launched from another application 205, such as the case when the client application is a device driver or helper application, the client application 210 may obtain information, such as the content (e.g. digital document) from that other application 205. This can be accomplished, for example, by one or combinations of messages or facilitated through an operating system or a particular object or component model etc.

[0153] During output process 1002, a user may need to select one or more output devices 220 for output service. An optional discovery process step 1020 may be implemented to help the user select an output device 220. During the discovery process step 1020, a user's information apparatus 200 may (1) search for available output devices 220; (2) provide the user with a list of available output devices 220; and (3) provide means for the user to choose one or more output devices 220 to take the output job. An example of a discovery process 1020 is described below in greater detail with reference to Fig. 11.

[0154] The optional discovery process 1020 may sometimes be unnecessary. For example, a user may skip the discovery process 1020 if he or she already knows the output device (e.g., printer) 220 to which the output is to be directed. In this case, the user may simply connect the information apparatus 200 to that output device 220 by wired connections or directly point to that output device 220 in a close proximity such as in the case of infrared connectivity. As another example, a user may pre-select or set the output device or devices 220 that are used frequently as preferred defaults. As a result, the discovery process 1020 may be partially or completely skipped if the default output device 220 or printer is found to be available.

[0155] In stage 1030, the client application may interact with output device 220, the user, and/or other applications 205 residing in the same information apparatus 200 to (1) obtain necessary output device profile and/or user preferences, (2) perform functions or part of raster image processing operations such as rasterization, scaling and color correction, and/or (3) convert or encode at least partially the rasterized content (e.g. digital

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document) into an intermediate output data. The processing and generation of the intermediate output data may reflect in part a relationship to an output device profile and/or user preferences obtained, if any. The intermediate output data generated by the client application 210 is then transmitted through wired or wireless local communication link(s) 240 to the output controller 230 included or associated with the selected output device 220 or output system 250. An exemplary client application process is described in greater detail with reference to FIG 12.

[0156] In step 1040, the output controller 230 of present invention receives the intermediate output data. In the case where the selected output device 230 does not include a printer controller, the output controller 230 of present invention may further perform processing functions such as parsing, interpreting, decompressing, decoding, color correction, image enhancement, GCR, black generation and halftoning among others. In addition, the output controller 230 may further convert or conform the intermediate output data into a form or format suitable for the output engine (e.g. printer engine in the case of a printer). The generated output-engine output data from the output controller is therefore, in general, device dependent and acceptable for final output with the output engine (or the printer engine in case of a printer) included in the selected output device 220 or output system 250.

[0157] In the case where the selected output device 220 is a printer, and when the printer includes or is connected to a printer controller, the output controller 230 may generate the proper language or input format required to interface with the printer controller (referred to as printer-controller print data). The printer controller may for example require a specific input such as a page description language (PDL), markup language, or a special image or graphics format. In these cases, the output controller 230 in step 1040 may interpret and decode the intermediate output data, and then convert the intermediate output data into the required printer-controller print data (e.g. PDL such as PostScript or PCL). The printer-controller print data generated by the output controller is then sent to the printer controller for further processing. The printer controller may perform interpretation and raster image processing operations among other operations. After processing, the printer controller generates a printer-engine print data suitable for rendering at the printer engine.

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[0158] In either case, the output controller 230 or printer controller generates an output-engine output data that is suitable for sending to or interfacing with the output engine or the printer engine included in the output device for rendering. The output data may be temporarily buffered in components of the output device 220. An implementation of the output device process 1040 is described in greater detail with reference to FIG 13.

[0159] The steps included in the universal pervasive output process 1002 may proceed automatically when a user requests output service. Alternatively, a user may be provided with options to proceed, cancel, or input information at each and every step. For example, a user may cancel the output service at any time by, for example, indicating a cancellation signal or command or by terminating the client application 210 or by shutting down the information apparatus 200 etc.

[0160] Fig. 11 is a flow diagram of an example of a discovery process 720, which may be an optional step to help a user locate one or more output devices 220 for an output job. The discovery process 1020 may, however, be skipped partially or entirely. Implementation of discovery process 1020 may require compatible hardware and software components residing in both the information apparatus 200 and the output device 220. The information apparatus 200 may utilize the client application 210 or other application 205 in this process. The discovery process 1020 may include:

- An information apparatus 200 communicating with available output devices 220 to obtain information and attributes relating to the output device 220 and or its services such as output device capability, feature sets, service availability, quality of service, condition.
- An Information apparatus 200 provides the user information on each available and or compatible output devices 220.
- A user selects or the client application 210 (automatically or not) selects one or more output devices 220 for the output service from the available or compatible output devices 220.

[0161] Various protocols and or standards may be used during discovery process 1020. Wireless communication protocols are preferred. Wired communication, on the other hand, may also be implemented. Examples of applicable protocols or standards may include, without limitation, Bluetooth, HAVi, Jini, Salutation, Service Location Protocol, and Universal Plug-and-play among others. Both standard and proprietary protocols or combination may be implemented in the discovery process 1020. However, these

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different protocols, standards, or combination shall not depart from the spirit and scope of present invention.

[0162] In one implementation an application (referred here for simplicity of discussion as a "communication manager," not shown) residing in the information apparatus 200 helps communicate with output device 220 and manages service requests and the discovery process 1020. The communication manager may be a part of or a feature of the client application 210. Alternatively or in combination, the communication manager may also be a separate application. When the communication manager is a separate application, the client application 210 may have the ability to communicate, manage or access functionalities of the communication manager.

[0163] The discovery process 1020 may be initiated manually by a user or automatically by a communication manager when the user requests an output service with information apparatus 200.

[0164] In the optional step 1100, a user may specify searching or matching criteria. For example, a user may indicate to search for color printers and or printers that provide free service. The user may manually specify such criteria each time for the discovery process 1020. Alternatively or in combination, a user may set default preferences that can be applied to a plurality of discovery processes 1020. Sometimes, however, no searching criteria are required: the information apparatus 200 may simply search for all available output devices 220 that can provide output service.

[0165] In step 1101, information apparatus 200 searches for available output devices 220. The searching process may be implemented by, for example, an information apparatus 200 (e.g. with the assistance of a communication manager) multi-casting or broadcasting or advertising its service requests and waiting for available output devices 220 to respond. Alternatively or in combination, an information apparatus 200 may "listen to" service broadcasts from one or more output devices 220 and then identify the one or more output devices 220 that are needed or acceptable. It is also possible that multiple output devices 220 of the same network (e.g., LAN) register their services with a control point (not shown). A control point is a computing system (e.g., a server) that maintains records on all service devices within the same network. An information apparatus 200 may contact the control point and search or query for the needed services.

[0166] In step 1102, if no available output device 220 is found, the communication manager or the client application 210 may

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provide the user with alternatives 1104. Such alternatives may include, for example, aborting the discovery process 1020, trying discovery process 1020 again, temporarily halting the discovery process 1020, or being notified when an available output device 220 is found. As an example, the discovery process 1020 may not detect any available output device 220 in the current wired/wireless network. The specified searching criteria (if any) are then saved or registered in the communication manager. When the user enters a new network having available output devices 220, or when new compatible output devices 220 are added to the current network, or when an output device 220 becomes available for any reason, the communication manager may notify the user of such availability.

[0167] In step 1106, if available output devices 220 are discovered, the communication manager may obtain some basic information, or part of or the entire output device profile, from each discovered output device 220. Examples of such information may include, but not limited to, device identity, service charge, subscription, service feature, device capability, operating instructions, etc. Such information is preferably provided to the user through the user interface (e.g., display screen, speaker, etc.) of information apparatus 200.

[0168] In step 1108, the user may select one or more output devices 220 based on information provided, if any, to take the output job. If the user is not satisfied with any of the available output device 220, the user may decline the service. In this case, the user may be provided with alternatives such as to try again in step 1110 with some changes made to the searching criteria. The user may choose to terminate the service request at any time. In step 1112, with one or more output devices 220 selected or determined, the communication link between information apparatus 200 and the selected output device or devices 220 may be "locked". Other output devices 220 that are not selected may be dropped. The output process 1020 may then proceed to the client application process of step 1030 of Fig. 10.

[0169] Fig. 12A is a flow diagram of an exemplary client application process with reference to step 1030 of Fig. 10. A client application process 1202 for universal output may include or utilize:

- A client application 210 that obtains content (e.g. digital document) intended for output.
- A client application 210 that obtains output device parameters (e.g. rasterization parameters, output job parameters).

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One example of implementation is to obtain the output device parameters from an output device profile (e.g. printer profile), which includes device dependent parameters. Such profile may be stored in an output controller 230, output device 220 or information apparatus 200.

- A client application 210 that may optionally obtain user preferences through (1) user's input (automatic or manual) or selections or (2) based on preset preference or pre-defined defaults or (3) combination of the above.
- A client application 210 that rasterizes at least part of the content intended for output (e.g. a digital document) according to one or more rasterization parameters obtained from previous steps such as through output device profile, user selection, predefined user preferences, predefined default or standard etc.
- A client application 210 that generates an intermediate output data containing at least part of the rasterized image related at least partly to the content intended for output.
- A client application that transmits the intermediate output data to an output device 220 or output controller 230 for further processing and or final output.

[0170] A client application 210 may obtain content (e.g. digital document) 900 or a pointer or reference to the content in many ways. In a preferred embodiment, the client application 210 is in the form of a device driver or an independent application, and the content or its reference can be obtained by the client application 210 from other applications 205 in the same information apparatus 200. To illustrate an example, a user may first view or download or create a digital document by using a document browsing, viewing and or editing application 205 in his/her information apparatus 200, and then request output service by launching the client application 210 as a device driver or helper application. The client application 210 communicates with the document browsing or editing application to obtain the digital document or reference to the digital document. As another example, the client application 210 is an independent application and it launches another application to help locate and obtain the digital document for output. In this case, a user may first launch the client application 210, and then invoke another application 205(e.g. document editing and or browsing application) residing in the same information apparatus 200 to view or download a digital document. The client application 210 then communicates with the document

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browsing or editing application to obtain the digital document for output.

[0171] In another embodiment, the client application 210 itself provides multiple functionalities or feature sets including the ability for a user to select the content (e.g. digital document) for output. For example, the client application 210 of present invention may provide a GUI where a user can directly input or select the reference or path of a digital document that the user wants to output.

[0172] In order to perform rasterization operation on content (e.g. digital document) 900, the client application 210 in step 1210 needs to obtain device dependent parameters of an output device 220 such as the rasterization parameters. Device dependent parameters may be included in an output device profile. A client application 210 may obtain an output device profile or rasterization parameters in various ways. As an example, an output device profile or rasterization parameters can be obtained with one or combination of the following:

- The client application communicates with an output device 220 to upload output device profile or information related to one or more rasterization parameters.
- The client application 210 obtains the output device profile from a network node (e.g. server).
- A user selects an output device profile stored in the user's information apparatus 200.
- The client application 210 automatically retrieves or uses a default profile, predefined standard values or default values among others.
- The client application 210 obtains output device parameters by calculating, which may include approximation, based at least partly on the information it has obtained from one or combination of an output device 220, a user, default values, and a network node.

[0173] It is important to note that step 1210 is an optional step. In some instance, part of or the entire output device profile or related device dependent information may have been already obtained by the client application 210 during the prior optional discovery process (step 1020 in FIG 10). In this case, step 1210 may be partially or entirely skipped.

[0174] In one implementation, the client application 210 communicates with one or more output devices 220 to upload output device profiles stored in the memory or storage components of those

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one or more output devices 220 or their associated one or more output controllers 230. In some instance, the uploaded output device profile may contain partially or entirely references or pointers to device parameters instead of the device parameters themselves. The actual output device parameters may be stored in a network node or in the information apparatus 200, where they can be retrieved by the client application 210 or by other applications 205 using the references or pointers. It should be noted that a plurality of information apparatuses 200 may request to obtain output device profile or profiles from the same output device 220 at the same time or at least during overlapping periods. The output device 220 or its associated output controller 230 may have components or systems to manage multiple communication links and provide the output device profile or profiles concurrently or in an alternating manner to multiple information apparatuses 200. Alternatively, an output device 220 may provide components or systems to queue the requests from different information apparatuses 200 and serve them in a sequential fashion according to a scheme such as first come first served, quality of service, etc. Multi-user communication and service management capability with or without queuing or spooling functions may be implemented by, for example, the output controller 230 as optional feature sets.

[0175] In another implementation, one or more output device profiles may be stored locally in the information apparatus 200. The client application 210 may provide a GUI where a user can select a profile from a list of pre-stored profiles. As an example, the GUI may provide the user with a list of output device names (e.g. makes and models), each corresponding to an output device profile stored locally. When the user selects an output device 220, the client application 210 can then retrieve the output device profile corresponding to the name selected by the user.

[0176] In certain cases, during a discovery or communication process described earlier, the client application 210 may have already obtained the output device ID, name, or reference or other information in a variety of ways described previously. In this case, the client application 210 may automatically activate or retrieve an output device profile stored in the information apparatus 200 based on the output device ID, name, or reference obtained without user intervention.

[0177] In yet another implementation, the client application 210 may use a set of pre-defined default values stored locally in a user's information apparatus 200. Such defaults can be stored in

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one or more files or tables. The client application 210 may access a file or table to obtain these default values. The client application 210 may also create or calculate certain default values based on the information it has obtained during previous steps (e.g. in optional discovery process, based on partial or incomplete printer profile information obtained, etc). A user may or may not have an opportunity to change or overwrite some or all defaults.

[0178] Finally, if, for any reason, no device dependent information is available, the client application 210 may use standard output and rasterization parameters or pre-defined default parameters. The above illustrates many examples and variations of implementation, these and other possible variations in implementation do not depart from the scope of the present invention.

[0179] In step 1220, the client application 210 may optionally obtain user preferences. In one exemplary implementation, the client application 210 may obtain user preferences with a GUI (graphical user interface). For simplicity, a standard GUI form can be presented to the user independent of the make and model of the output device 220 involved in the output process. Through such an interface, the user may specify some device independent output parameters such as page range, number of cards per page, number of copies, etc. Alternatively or in combination, the client application 210 may also incorporate output device-dependent features and preferences into the GUI presented to the user. The device-dependent portion of the GUI may be supported partly or entirely by information contained in the output device profile obtained through components and processes described in previous steps. To illustrate, device dependent features and capabilities may include print quality, color or grayscale, duplex or single sided, output page size among others.

[0180] It is preferred that some or all components, attributes or fields of user preferences have default values. Part or all default values may be hard-coded in software program in client application 210 or in hardware components. Alternatively, the client application 210 may also access a file to obtain default values, or it may calculate certain default values based on the information it has obtained during previous steps or components (e.g. from an output device profile). A user may or may not have the ability to pre-configure, or change or overwrite some or all defaults. The client application 210 may obtain and use some or all defaults with or without user intervention or knowledge.

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[0181] In step 1230, the client application 210 of present invention performs rasterization operation to conform a content (e.g. a digital document), which may includes objects and information in vector graphics, text, and images, into one or more output images in accordance with the rasterization parameters obtained in previous steps. During rasterization process, text and vector graphics object or information in the content is rasterized or converted into image or bitmap form according to the given set of rasterization parameters. Image information in the content may require scaling and interpolation operations to conform the rasterization parameters. Rasterization process may further include operations such as scaling, interpolation, segmentation, image transformation, image encoding, color space transformation etc. to fit or conform the one or more output images to the given set of rasterization parameters such as target output size, resolution, bit depth, color space and image format etc.

[0182] In step 1240, the client application 210 generates an intermediate output data that includes the rasterized one or more output images. The intermediate output data of the present invention may contain image information, instructions, descriptions, and data such as color profile among others. Creating and generating intermediate output data may further include operations such as compression, encoding, encryption, smoothing, segmentation, scaling and or color correction, among others. The image or images contained in an intermediate output data may be variously encoded and/or implemented with different image formats and/or compression methods (e.g. JPEG, BMP, TIFF, JBIG etc or combination). One preferred implementation is to generate or encode the output image in the intermediate output data with mixed raster content (MRC) description. The use of MRC in the data output process of present invention provides opportunities to improve the compression ratio by applying different compression techniques to segmented elements in the content. In addition, MRC provides opportunities to maintain more original content information during the encoding process of the output image and, therefore, potentially improve output quality.

[0183] In step 1250, the client application 210 transmits intermediate output data to an output device 220 through local communication link 240. The communication link may be implemented with wired or wireless technologies and the transmission may include one or multiple sessions.

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[0184] It should be recognized that FIG 12A illustrates one example of a client application process 1030 in the data output method 1002 of present invention. Other implementations with more or less steps are possible, and several additional optional processes not shown in Fig 12 may also be included in the client application process 1030. Use of these different variations, however, does not result in a departure from the scope of the present invention. As an example, an optional authentication step may be included when the selected output device 220 provides service to a restricted group of users. Various authentication procedures may be added in step 1210 when client application 210 obtains output device profile by communicating with an output device or an output controller. As another example, authentication procedures may also be implemented in step 1250 when the client application transmits intermediate output data to one or more output devices 220 or output controllers 230. A simple authentication may be implemented by, for example, comparing the identity of an information apparatus 200 with an approved control list of identities stored in the output device 220 or output controller 230. Other more complex authentication and encryption schemes may also be used. Information such as user name, password, ID number, signatures, security keys (physical or digital), biometrics, fingerprints, voice among others, may be used separately or in combination as authentication means. Such identification and or authentication information may be manually provided by user or automatically detected by the selected output device or devices 220 or output controller 230. With successful authentication, a user may gain access to all or part of the services provided by the output device 220. The output device profile that the client application 210 obtains may vary according to the type or quality of service requested or determined. If authentication fails, it is possible that a user may be denied partially or completely access to the service. In this case, the user may be provided with alternatives such as selecting another output device 220 or alternative services.

[0185] Another optional process is that a user may be asked to provide payment or deposit or escrow before, during or after output service such as step 1210 or 1250 with reference to Fig. 12. Examples of payment or deposit may include cash, credit card, bankcard, charge card, smart card, electronic cash, among others. The output controller 220 may provide payment calculation or

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transaction processing as optional feature sets of present invention.

[0186] FIG 12B illustrates another exemplary client application output process 1030 with which an information apparatus 200 can pervasively and universally output content to one or more output devices 220 associated with or equipped with an output controller 230 of present invention.

[0187] The process illustrated in FIG 12B is similar to the process described in FIG 12A except that step 1210, obtaining output device profile, is skipped. In this embodiment, the client application 210 utilizes a set of hard-coded, standard or pre-defined output device parameters including rasterization parameters with which the client application 210 can perform rasterization operation and other required image processing functions. Users may be provided with the option of changing these parameters or inputting alternative parameters. Rasterization parameters include output size, output resolution, bit depth, color space, color channels, scale factors etc. These pre-defined parameters typically comply with a specification or a standard. The same specification and standard may also defined or describe at least partly the intermediate output data. Predefined standard parameters can be stored in a file or profile in an information apparatus 200, an output controller 230, and/or in an output device 220 for easy update or upgrade.

[0188] In client output process 1204, since the rasterization parameters are predefined, the client application 210 may not need to upload printer profiles from the selected output device 230. Consequently, no two-way communication between the information apparatus 200 and the output device or devices 220 is necessary in this process 1204 when compared with process 1202 illustrated in Fig. 12A. The client application 210 performs rasterization operation 1225 based on standard and/or predefined parameters and generates a rasterized output image with predefined or standard properties of those rasterization parameters. The resulting intermediate output data, which includes at least one rasterized output image, is transmitted from the information apparatus 200 to an output device 220 in step 1250 or to its associated output controller 230 for rendering or output. The intermediate output data generated in process 1202 in general is less device dependent compared to the intermediate output data generated in the process 1202 shown in Fig 12A. The output controller 230 included or associated with the output device 220 may be preprogrammed to

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interpret the raster output image, which includes properties or attributes that correspond to those standard or predefined parameters.

[0189] The standard or predefined rasterization parameters may be hard coded or programmed into the client application 210 and/or the output controller 230. However, instead of hard coding those parameters, one technique to facilitate updates or changes is to store those standard parameters in a default file or profile. The standard or predefined parameters contained in the file or profile can be retrieved and utilized by applications in an information apparatus 200 (e.g. client application 210) and/or by applications or components in an output device 220 or the output controller 230. In this way, any necessary updates, upgrades or required changes to those predefined or standard parameters can be easily accomplished by replacing or modifying the file or profile instead of modifying or updating the program, application or components in the information apparatus 200, output device 220 and/or output controller 230.

[0190] A client application process 1204 providing universal output capability to information apparatus 200 may include or utilize:

- A client application 210 that obtains content (e.g. digital document) intended for output.
- A client application 210 that optionally obtains user preferences (in step 1220) through (1) user's input (automatic or manual) or selections or (2) based on preset preference or pre-defined defaults or (3) combination of the above.
- A client application 210 that rasterizes content (in step 1230 or 1225) according to pre-defined or standard rasterization parameters.
- A client application 210 that generates intermediate output data (in step 1240) for rendering or output at an output device 220; the intermediate output data containing at least partially a rasterized image related to the content intended for output.
- A client application 210 that transmits the intermediate output data to an output device 220 (in step 1250) for further processing and final output.

[0191] One advantage of the client output process 1204 of Fig 12B compared to the process 1202 illustrated in Fig 12A is that the generated intermediate output data is in general less device dependent. The device independent attribute allows the intermediate output data to be more portable and acceptable to more output

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devices equipped or associated with output controllers. Both data output processes (1202 and 1204) enable universal output; allowing a user to install a single client application 210 or components in an information apparatus 200 to provide output capability to more than one output device 220.

[0192] FIG 13A illustrates one example of an output device process 1302 and its associated raster imaging method of present invention. In this output device process 1302, an output device 220 is capable of receiving an intermediate output data from an information apparatus 200. The output device process 1302 and its operations may include or utilize:

- An output device/system or output controller that receives intermediate output data (in step 1300). The intermediate output data includes at least partially a raster output image describing at least part of the content for rendering at the output device 220 or system 250.
- An output device/system or output controller that interprets (in step 1310) the intermediate output data; in one preferred embodiment, the intermediate output data includes an output image utilizing one or more MRC formats or components.
- An output device/system or output controller that performs image processing operation (in step 1320) on the raster image. The image processing operation may include but not limited to image decompression, scaling, halftoning, color matching, among others.
- An output device/system or output controller that converts and or generates (in step 1330) output-engine output data that is in a format or description suitable for input to an output engine (e.g. printer engine in case of a printer) included in an output device 220.
- An output engine in an output device 220 that renders or generates a final output (e.g. the output-engine output data) in step 1370.

[0193] The output device 220 or output system 250 may include an output controller 230 internally or externally to assist the management and operation of the output process 1302. As shown in Fig 7, there are many possible configurations and implementations of an output controller 230 associated to an output device 220 Herein and after, output controller 230 is regarded as an integral part of the output device to which it is attached. Hence, the following described output device operations may be partially or completely performed by the output controller associated with it.

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[0194] In step 1300, output device process 1302 is initiated by client application 210 transmitting an intermediate output data to output device 220 or output system 250. In step 1310, the output device 220 reads and interprets the intermediate output data, containing at least one raster output image relating to the content intended for output. During the reading and interpretation process 1310, the output device 220 may include components that parse the intermediate output data and perform operations such as decompression, decoding, and decryption among others. The output image may be variously encoded and may include one or more compression methods.

[0195] In the event that the method of image encoding includes MRC format, then, in one example implementation, during decoding and mapping of the output image in step 1310, the lower resolution layer and information in an image that includes MRC may be mapped, scaled or interpolated to a higher-resolution output image to produce a better image quality. Therefore, step 1310, in the event that the intermediate output data includes MRC component, each layer in an MRC image can be decompressed, processed, mapped and combined into a single combined output image layer. Step 1310 may also include scaling, color space transformation, and/or interpolation among others. In addition to the possibility of mapping methods using different scaling and interpolation ratio with different layers, another advantage of using MRC is that segmentation information contained in MRC can be utilized to apply different image processing and enhancement techniques to data in different layers of an MRC image in step 1320.

[0196] In step 1320, the output device 220 may further perform image processing operations on the decoded output image. These image processing operations may include, for example, color correction, color matching, image segmentation, image enhancement, anti-aliasing, image smoothing, digital watermarking, scaling, interpolation, and halftoning among others. The image processing operations 1320 may be combined or operated concurrently with step 1310. For example, while each row, pixel, or portion of the image is being decoded and or decompressed, image processing operations 1320 is applied. In another implementation, the image processing 1320 may occur after the entire output image or a large portion of the image has been decoded or decompressed.

[0197] If the intermediate output data includes MRC component, then in step 1320, there are additional opportunities to improve image quality. An image encoded in MRC contains segmented

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information that a traditional single layer image format does not usually have. As an example, foreground can be in one layer, and background in another. As another example, chrominance information may be in one layer and luminance may be in another. This segmented information in MRC may be used to apply different or selective image processing methods and algorithms to different layers or segments to enhance image quality or retain or recover image information. Different image processing techniques or algorithms may include color matching, color correction, black generation, halftoning, scaling, interpolation, anti-aliasing, smoothing, digital watermarking etc. For example, one can apply colorimetric color matching to foreground information and perceptual color matching to background information or vice versa. As another example, error diffusion halftoning can be applied to foreground and stochastic halftoning can be applied to background or vice versa. As yet another example, bi-cubic interpolation can be applied to a layer and bi-linear or minimum distance interpolation can be applied to a different layer.

[0198] In step 1330, the output device 220 or the output controller 230 may convert the processed image (e.g. halftoned) into a form acceptable to the output engine of output device 220. This conversion step is optional, depending on the type, format and input requirement of a particular output device engine (e.g. printer engine in case of a printer). Different output engines may have different input raster image input requirements. As an example different output engines may require different input image formats, number of bits or bytes per pixel, compression or uncompressed form, or different color spaces (e.g. such as RGB, CMY, CMYK, or any combination of Hi-Fi color such as green, orange, purple, red etc). Incoming raster image data can be encoded in a row, in a column, in multiple rows, in multiple columns, in a chunk, in a segment, or a combination at a time for sending the raster data to the output engine. In some cases, step 1330 may be skipped if the result of step 1320 is already in a form acceptable to the output device engine. In other cases, however, further conversion and or processing may be required to satisfy the specific input requirement of a particular output device engine.

[0199] It is important to note that the above described processing from step 1310 to step 1330 may require one or more memory buffers to temporarily store processed results. The memory buffer can store or hold a row, a column, a portion, or a chunk, of the output image in any of the steps described above. Storing and

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retrieving information into and from the memory buffer may be done sequentially, in an alternating fashion, or in an interlaced or interleaved fashion among other possible combinations. Step 1310 to step 1330 operations can be partially or completely implemented with the output controller 230.

[0200] In step 1370, the output device engine included in the output device 220 or output system 250 receives the output-engine output data generated in step 1330 or step 1320. The output-engine output data is in a form that satisfies the input requirements and attributes of the output engine, such as color space, color channel, bit depth, output size, resolution, etc. The output engine then takes this output-engine output data and outputs or renders the data content through its marking engine or display engine.

[0201] One advantage of data output method 1002 that includes output device process 1302 is that it has less processing requirements on an information apparatus 200 compared to conventional process with reference to Fig 1A, and therefore, enables more information apparatus 200 with relatively lower processing power and memory space to have output capability.

[0202] For example, some image processing functions, such as halftoning (e.g. error diffusion) may require substantial processing and computing power. In data output process 1002 that includes output device process 1302, halftoning is performed in step 1320 by an output device component (e.g. the output controller 230) included in the output device 220 or the output system 250, not in the information apparatus 200; therefore reducing the computational requirements for the information apparatus 200. Another advantage of data output 1302 is that the intermediate output data is less device dependent than the output data generated by conventional output method 102 with reference to Fig 1A. The device independence provides opportunity to allow a single driver or application in an information apparatus 200 to output intermediate output data to a plurality of output devices 220 that include output controllers 230.

[0203] Some output devices 220 may contain a printer controller 410. An example of this type of output device or printer is a PostScript printer or PCL printer among others. FIG 13B illustrates an example of an output device process 1304 with a printer that includes a printer controller 410. As discussed in Fig 1, a printer with a printer controller requires input such as page description language (e.g. PostScript, PCL etc.), markup language

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(HTML, XML etc), special image format, special graphics format, or a combination, depending on the type of the printer controller.

[0204] There are many printing system configurations for providing the data output capability and process to a printer or a printing system that includes a printer controller. In one example, the existing printer controller in the output device 220 may incorporate the feature sets provided by the output controller to form a "combined controller" as described previously with reference to Figs 7C and 7F. In another example, the output controller 230 of present invention may be connected sequentially or cascaded to an existing printer controller; the output controller 230 can be internally installed (with reference to FIG. 7B) or externally connected (with reference to FIG. 7A) to the output device 220. For output device 220 that includes a printer controller, the output controller 230 may simply decode the intermediate output data in step 1310 and then convert it into a form acceptable for input to the printer controller in step 1350.

[0205] An output device process 1304 and operations for an output device 220 or system 250 that includes a printer controller 410 may include or utilize:

- An output controller 230 or components in an output device 220 or system 250 that receives an intermediate print data or output data (with reference to step 1300), the intermediate print data includes at least a raster image related at least in part to the content for rendering at the output device 220.
- An output controller 230 or components in an output device 220 or system 250 that interprets the intermediate output data (with reference to step 1310); in one preferred embodiment, the intermediate output data includes an output image utilizing one or more MRC format or components.
- An output controller 230 or components in an output device 220 or system 250 that converts the intermediate output data into a printer-controller print data (with reference to step 1350); the printer-controller print data includes a format or language (e.g. PDL, PDF, HTML, XML etc.) that is acceptable or compatible to the input requirement of a printer controller.
- A printer controller or components in an output device 220 or system 250 that receives a printer controller print data; the printer controller may parse, interpret and further process (e.g. rasterization, scaling, image enhancement, color correction, color matching, halftoning etc.) and convert the printer-controller print data into a printer-engine print data (with reference to step

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1360); the printer-engine print data comprising of a format or description acceptable for input to a printer engine in the output device 220 or the output system 250.

- A printer engine or components in an output device 220 or system 250 that renders or generates a final output (with reference to step 1370) with the input printer engine print data.

[0206] In output device process 1304, step 1300 (receiving intermediate output data) and step 1310 (interpret intermediate output data) are identical to step 1300 and step 1310 in output device process 1302, which have been described in previous sections with reference to Fig. 13A.

[0207] In step 1350, the output controller 230 converts the intermediate print data into a printer-controller print data that is in a form compatible or acceptable for input to a printer controller. For example, a printer controller may require as input a specific page description language (PDL) such as PostScript. The output controller 230 then creates a PostScript file and embeds the output image generated or retrieved in step 1310 into the PostScript file. The output controller 230 can also create and embed the output image from step 1310 into other printer controller print data formats, instructions or languages.

[0208] In step 1360, the printer controller receives printer-controller print data generated in step 1350 that includes an acceptable input language or format to the printer controller. The printer controller may parse, interpret, and decode the input printer-controller print data. The printer controller may further perform raster image processing operations such as rasterization, color correction, black generation, GCR, anti-aliasing, scaling, image enhancement, and halftoning among others on the output image. The printer controller may then generate a printer-engine print data that is suitable for input to the printer engine. The type and or format of printer-engine print data may vary according to the requirement of a particular printer engine.

[0209] It is important to note that the above described process from step 1310 to step 1360 may require one or more memory buffer to temporarily store processed results. The memory buffer can store or hold a row, a column, a portion, or a chunk, of the output image in any of the steps described above. Storing and retrieving information into and from the memory buffer may be done sequentially, alternated, or in an interlaced or interleaved fashion among other possible combinations. Process and operations

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of step 1310 to step 1360 can be implemented with output controller 230.

[0210] In step 1370, the printer engine included in the output device 220 or output system 250 generates or renders the final output based on the printer-engine print data generated in step 1360. For example, the printer-engine print data may be in CMY, CMYK, and RGB etc, and this may be in one or more bits per pixel format, satisfying the size and resolution requirement of the printer engine. The printer engine included the output device 220 may take this print data and generate or render an output page through its marking engine.

[0211] Having described and illustrated the principles of our invention with reference to an illustrated embodiment, it will be recognized that the illustrated embodiment can be modified in arrangement and detail without departing from such principles. In view of the many possible embodiments to which the principles of our invention may be applied, it should be recognized that the detailed embodiments are illustrative only and should not be taken as limiting the scope of our invention. Rather, I claim as my invention all such embodiments as may come within the scope of the following claims and equivalents thereto.

[0212] Unless the context indicates otherwise, a reference in a claim to the number of instances of an element, be it a reference to one instance or more than one instance, requires at least the stated number of instances of the element but is not intended to exclude from the scope of the claim a structure or method having more instances of that element than stated. Specifically, but without limitation, a reference in a claim to an or one output device or system, to an or one image, or to a or one rasterization parameter is not intended to exclude from the scope of the claim a structure or method having, including, employing or supplying two or more output devices or system, images or rasterization parameters.

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CLAIMS

1. A method of operating an information apparatus that is on a local area network for outputting an image of a digital document that can be accessed by the information apparatus, the digital document including at least part of a text or graphics information, said method comprising:

rasterizing the digital document on the information apparatus to generate image data,

creating an intermediate output data from the image data,

transmitting the intermediate output data to an output device that is on said local area network and includes an output engine that outputs images with a device-specific output size and resolution,

recovering the image data from the intermediate output data,

converting the image data to instructions compatible with the output engine, based at least in part on the device-specific output size and resolution of the output engine,

providing the instructions to the output engine, and

operating the output engine in response to said instructions and thereby outputting an image of the digital document.

2. A method according to claim 1, wherein the output engine is one of a marking engine, a display engine and a projection engine.

3. A method according to claim 1, wherein the intermediate output data includes a mixed raster content encoding.

4. A method according to claim 1, wherein the output device is printing device that includes a printer controller and an output controller, the method further comprising,

generating with the output controller a print data that is acceptable to the printer controller and including the recovered image data into the print data, and

passing the print data to the printer controller for converting the image data into instructions compatible with the output engine, based at least in part on the device-specific output size and resolution of the marking engine.

5. A method according to claim 4, in which the print data includes a page description language and the method comprises generating with the output controller a page description language

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(PDL) representation of the digital document to the printer controller and interpreting with the printer controller the PDL representation and converting the image data based at least in part on said device-specific output size and resolution.

6. A method according to claim 1, wherein the image included in the intermediate output data is encoded at least with predetermined standard output size and resolution and the rasterizing step includes calculating at least one scale factor relating the output size and resolution of the digital document to said predetermined standard output size and resolution and employing said scale factor as a rasterization parameter in the rasterizing step.

7. A method according to claim 6, wherein the predetermined standard output size and resolution is included in the output device and the step of converting the image data to instructions compatible with the output engine further includes converting the image data from at least the standard output size and resolution to the output size and resolution of the output engine.

8. A method according to claim 1, wherein the step of creating the intermediate output data includes at least one of compression, encoding, encryption and color correction.

9. A method according to claim 1, wherein the step of creating the intermediate output data includes creating an intermediate output data that includes at least one of an image, instructions, and a color profile.

10. A method according to claim 1, wherein the step of recovering the raster image data from the intermediate output data includes at least one of decoding, decryption, and decompression.

11. A method according to claim 1, wherein the step of converting the image data to instructions includes at least one of color space conversion, scaling, interpolation, color matching and halftoning.

12. A method according to claim 1, including obtaining a rasterization vector to the information apparatus and using said rasterization vector in the rasterizing step.

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13. A method according to claim 12, wherein the rasterization vector has at least one component related to the output device and includes one or more of an output size, resolution, color space, and bit depth.

14. A method according to claim 12, wherein at least one component of the rasterization vector is based on a predetermined standard value or default.

15. A method according to claim 12, wherein the rasterization vector is obtained from the output device.

16. A method according to claim 1, wherein the method includes selecting an output device description from a plurality of output device descriptions presented to a user of the information apparatus.

17. A method according to claim 12, comprising inputting user preferences as components of a rasterization vector and using said rasterization vector in the rasterizing step.

18. A method of outputting an image of a digital document that can be accessed by an information apparatus to an output system, the output system including information related to predetermined standard rasterization parameter values that include one or more of bit depth, color space, output size, and resolution, said method comprising:

generating image data by rasterizing the digital document on the information apparatus in accordance at least in part with at least one predetermined standard rasterization parameter value,

creating on the information apparatus an intermediate output data that includes the image data,

transmitting the intermediate output data from the information apparatus to an output system that includes an output engine that outputs an image with at least one device specific value that includes bit depth, color space, output size, or resolution,

recovering the image data from the intermediate output data,

converting the image data with the at least one predetermined standard rasterization parameter value to instructions compatible with the output engine that include the at least one device specific value,

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providing the instructions to the output engine, and

operating the output engine in response to said instructions and thereby outputting an image of the digital document.

19. A method according to claim 18, wherein the output device is a printing device and the output engine is a marking engine.

20. A method according to claim 18, comprising selecting said output system from among a plurality of available output systems and uploading at least one value specifying said predetermined rasterization parameters to the information apparatus,

21. A method of outputting an image of a digital document that can be accessed by an information apparatus, the digital document including at least part of a text or graphics information, said method comprising:

selecting an output device model from a menu of models presented by the information apparatus, each model of output device including an output engine, and each output engine being characterized by a value of a rasterization vector,

accessing a value of the rasterization vector related to the output engine of the selected model,

rasterizing the digital document on the information apparatus in accordance with said rasterization vector to generate image data,

creating an intermediate output data on the information apparatus that includes the image data,

transmitting the intermediate output data from the information apparatus to an output device of said selected model,

recovering the image data from the intermediate output data,

converting the image data to instructions compatible with the output engine of the output device,

providing the instructions to the output engine of the output device, and

operating the operating engine in response to said instructions and thereby outputting an image of the digital document.

22. A method according to claim 21, wherein the rasterization vector is obtained form the output device.

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23. A method according to claim 21, wherein the output device is a printing device and the output engine is a marking engine.

24. A method of outputting an image of a digital document that can be accessed by an information apparatus, said method comprising:

rasterizing the digital document on the information apparatus to generate image data,

creating an intermediate output data on the information apparatus, the intermediate output data including the image data, the image data being composed of a background layer and at least one foreground layer,

transmitting the intermediate output data to an output device that includes an output engine,

recovering the image data from the intermediate output data,

converting the image data into instructions compatible with the output engine,

providing the instructions to the output engine, and

operating the output engine in response to said instructions and thereby outputting an image of the digital document.

25. A method according to claim 24, wherein the image data comprises a background layer and at least one pair of layers composed of a foreground layer and a mask layer.

26. An imaging system comprising:

a local area network having a propagation medium and at least first and second nodes, said first node including an information apparatus and said second node including an output device, said output device including an output engine for outputting images,

a first means on the information apparatus for rasterizing a digital document to generate image data,

a second means on the information apparatus for creating an intermediate output data that includes the image data,

a third means on the information apparatus for impressing the intermediate output data on the propagation medium, and

an output controller at the second node for retrieving the image data from the intermediate output data and converting the image data into instructions compatible with the output engine.

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27. An imaging system according to claim 26, wherein the information apparatus includes a means for storing values for the predetermined standard size and resolution and the first means is adapted to rasterize the digital document to said predetermined standard output size and resolution.

28. An imaging system according to claim 26, wherein the output device includes a means for uploading to the information apparatus an output device profile that specifies device specific rasterization parameter values that include one or more of bit depth, output size and resolution to the information apparatus.

29. A method of outputting an image of a digital document that can be accessed by an information apparatus, said method including:

(a) establishing bidirectional communication between the information apparatus and at least two output devices,

(b) receiving a message from a first available output device specifying a feature of the first available output device,

(c) determining from the message from the available output device whether the feature of the available output device matches a requirement for outputting the digital document,

(d) if so, selecting said available output device and transmitting image data to the selected output device, and otherwise receiving a message from another available output device specifying a feature of the other available output device, and

(e) repeating steps (c) and (d).

30. A method according to claim 29, comprising, prior to step (b), transmitting from the information apparatus a message that calls for a receiving output device to transmit a message that specifies a feature of the respective output device.

31. A method according to claim 29 in which the feature includes one or more of a quality of service, a price indicator, a status indicator, an availability indicator, and an output data format indicator.

32. An output controller for processing intermediate output data that includes image data and has a first bit depth and resolution, the image data corresponding to content that includes

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at least part of a text or graphics information, the controller comprising:

means for retrieving the image data from the intermediate output data, and

means for carrying out an image processing operation on the data, said image processing operation adjusting at least one of bit depth, color space and a combination of resolution and output size of an image represented by the data.

33. The controller of claim 32 further comprising means for receiving the intermediate output data via a short-range wireless communication channel.

34. The controller of claim 32 in which the image data includes mixed raster content encoding, and the means for retrieving the image data from the intermediate output data comprises means for generating an output image data from at least part of the mixed raster content data.

35. The controller of claim 32 in which the means for carrying out image processing operations on the data, includes means for carrying out one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation operation, a color space conversion, a decompression, a decryption, and a halftoning operation.

36. The controller of claim 32 in which the first bit depth and resolution correspond to a predefined standard value included in the controller.

37. The controller of claim 32 in which the means for carrying out an image processing operation on the data adjusts at least one of bit depth, color space, and a combination of output size and resolution to a value corresponding to a specific input requirement of an output engine.

38. The controller of claim 32 in which the output controller is included in the output device.

39. The controller of claim 32 in which the output controller is included in one of a server, an external station, a board, a card, and a data access point.

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40. The controller of claim 32 further comprising means for storing one or more output device profiles.

41. An output controller method for processing intermediate output data that includes image data and having a first bit depth and resolution, the image data corresponding to content that includes at least part of a text or graphics information, the method comprising:

retrieving the image data from the intermediate output data, and

carrying out an image processing operation on the data, said image processing operation adjusting at least one of bit depth, color space and a combination of resolution and output size of an image represented by the data.

42. The controller method of claim 41 further comprising receiving the intermediate output data via a short-range wireless communication channel.

43. The controller method of claim 41 in which the image data includes data encoded with mixed raster content.

44. The controller method of claim 41 wherein the step of carrying out an image processing operation on the data, includes carrying out one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation operation, a color space conversion, a halftoning operation, a compression operation, a decompression operation, and a decryption operation.

45. In a computer readable medium, data output controller software for processing intermediate output data that includes image data and has a first bit depth, and resolution, the image data corresponding to content that includes text or graphics information, the controller software comprising:

software for retrieving the image data from the intermediate output data, and

software for carrying out an image processing operation on the data, said image processing operation adjusting at least one of bit depth, color space and a combination of resolution and output size of an image represented by the data.

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46. The medium of claim 45 further comprising software for establishing a short-range wireless communicating channel with an information apparatus.

47. The medium of claim 46 further comprising software for providing an output device profile over the communication channel.

48. The medium of claim 45 further comprising software for calculating and collecting payment information as compensation for rendering of the content by the output device.

49. The medium of claim 45 wherein the software includes software for retrieving the image data from data encoded with mixed raster content.

50. The medium of claim 45 wherein the software for carrying out an image processing operation on the data includes software for carrying out one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation operation, a color space conversion, and a halftoning operation.

51. The medium of claim 45 in which the first bit depth and resolution correspond to respective values that are included in said software for retrieving image data and carrying out image processing operations.

52. The medium of claim 45 in which the output controller software is included in a server, an external station, a board, and a data access point.

53. In a computer readable medium, an information apparatus data output software for managing output of content to a selected output device, comprising:

software for accessing at least part of said content;

software for establishing a communication channel between the information apparatus and one or more output devices;

software for receiving over the communication channel at least one attribute corresponding to the one or more output devices;

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software for selecting one of said one or more output devices for rendering content based at least in part on the received attributes;

software for conforming at least part of the content into one or more output images with the at least one attribute related at least in part to the selected output device;

software for generating at the information apparatus an output data that includes said one or more output images; and

software for delivering the output data for rendering by the selected output device.

54. The medium of claim 53 in which the software for establishing a communication channel includes software for establishing a wireless communication channel.

55. The medium of claim 53 further comprising software for discovering the selected output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering the output content.

56. The medium of claim 53 further comprising software for providing payment information over the communication channel as compensation for the rendering of the content by the selected output device.

57. A method of operating an information apparatus with access to content, for managing output of said content to an output device, comprising:

establishing a communication channel between the information apparatus and the output device;

receiving over the communication channel an output device profile associated with the output device;

obtaining one or more image attributes associated with the output device employing the output device profile;

conforming at least part of the content into one or more output images with said one or more image attributes;

generating an output data associated with the output device, the output data

including said one or more output images; and

delivering the output data to the output device for rendering.

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58. The method of claim 57, wherein the output device is one of a plurality of output devices and the method includes the step of selecting the output device from said plurality of output devices.

59. The method of claim 57, comprising obtaining image attributes that include one or more of resolution, color space, output size, resolution, bit depth, number of color channels, compression method, an image format indicator, and rendering intent.

60. The method of claim 57 comprising encoding said one or more output images with mixed raster content encoding.

61. A method of operating an information apparatus with access to content, for managing output of said content to an output device, comprising:

establishing a communication channel between the information apparatus and an output device;

receiving over the communication channel at least an indication from the output device related to rendering the content at the output device;

obtaining one or more rasterization parameters related to the output device;

conforming at least part of the content into one or more output images with said one or more rasterization parameters; and

delivering an output data to the output device for rendering, the output data including said one or more output images.

62. The method of claim 61 comprising establishing a short-range wireless communication channel.

63. The method of claim 61 wherein the output device is one of a plurality of output devices and the method includes the step of selecting the output device from among said plurality of output devices.

64. The method of claim 61 wherein the output device is one of a plurality of output devices and the step of receiving at least an indication includes receiving at least an indication from one or more output devices related to rendering the content at the output devices respectively.

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65. The method of claim 61 comprising obtaining, as said one or more rasterization parameters, one or more of resolution, color space, output size, resolution, bit depth, and number of color channels.

66. The method of claim 61 in which the conforming of at least part of the content includes one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation operation, a color space conversion, a compression, a decompression, a segmentation, a de-segmentation, a storing, a retrieving and a halftoning operation.

67. A method of operating an information apparatus with access to content, for managing output of said content to an output device, comprising:

establishing a communication channel between the information apparatus and one or more output devices;

receiving over the communication channel at least one attribute corresponding to said one or more output devices;

selecting one of said one or more output devices for rendering content based at least in part on the received attributes;

conforming at least part of the content into one or more output images with at least one rasterization parameter related at least in part to the selected output device;

generating an output data that includes said one or more output image ; and

delivering the output data for rendering by the selected output device.

68. The method of claim 67, comprising establishing a wireless communication channel.

69. The method of claim 68, comprising conforming at least part of the content with rasterization parameters that include one or more of resolution, color space, output size, resolution, bit depth, and number of color channels.

70. The method of claim 68 further comprising providing payment information over the communication channel as compensation for the rendering of the content by the selected output device.

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71. A method of operating an information apparatus with access to content, the content includes at least part of a text or graphics information, for managing output of content to one or more output devices, comprising:

establishing a communication channel between the information apparatus and one or more output devices with short range wireless communication;

conforming at least part of the content into one or more output images with at least one image attribute associated with at least one predefined standard rasterization parameter values related to an intermediate output data format;

generating a device independent intermediate output data that includes said one or more output images; and

delivering via the communication channel the intermediate output data to at least one of said one or more output devices for rendering.

72. In a computer readable medium, an information apparatus data output software for managing output of content to an output device, comprising:

software for accessing at least part of the content;

software for managing a communication channel between the information apparatus and the output device;

software for receiving over the communication channel one or more components associated with the output device;

software for conforming at least part of the content into one or more output images with one or more rasterization parameters related at least in part to said one or more components;

software for generating an output data including at least said one or more output images; and

software for directing the output data over the communication channel to the output device for rendering.

73. A method of operating a printing device that includes a printer engine for rendering data encoded in a raster form, said method comprising:

receiving by short range wireless communication an intermediate data which includes image data corresponding to at least part of the content,

extracting the image data from said intermediate data,

converting the image data to data in a page description language form,

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converting the data in the page description language to the raster form rendered by the printer engine, and

supplying the data in the raster form to the printer engine.

74. An output device for rendering content, said output device including:

a communication unit to receive via short range wireless communication an intermediate output data in which includes at least part of the content encoded in image data form with a first bit depth and a first resolution, said intermediate output data including graphics or text elements exclusively encoded with image data,

an interpreter for receiving the intermediate output data and retrieving said image data from said intermediate output data,

a processor for carrying out at least one image processing operation on the interpreted data, said processing operation adjusting at least one of bit depth, color space and a combination of output size and resolution of the interpreted data, and

an output engine for receiving data from said processor and employing the data received from the processor to render the content.

75. The output device of claim 74, wherein the output device is a printer, the output engine is a printer engine, and the processor is an image processor, and the second bit depth is less than the first bit depth.

76. A method of outputting content encoded in image data having a first bit depth and a first resolution, the content including at least part of a text or graphics element, said method comprising:

receiving an intermediate output data that include the image data related to content,

interpreting the intermediate output data and retrieving said image data from the intermediate output data,

carrying out at least one processing operation on the interpreted image data, said processing operation adjusting at least one of bit depth, color space and a combination of output size and resolution of the interpreted data, and

employing the data generated by the processing operation to render the content.

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77. In a data output device for rendering content managed with an information apparatus, the data output device including an output engine that imparts output on a medium in accordance with output data received at the output device, a communication unit that communicates with one or more devices, and a memory storage that stores data for rendering; the improvement comprising:

means for providing at least an indication related to one or more data formats acceptable to the controller in connection with rendering content at the output device; and

means for receiving an intermediate output data related to the content managed from the information apparatus, the intermediate output data corresponding to at least part of the content and includes data in accordance with said one or more acceptable data formats.

78. The output device of claim 77 further comprising means for establishing a wireless communication channel with an information apparatus.

79. The output device of claim 78 including means for providing over the communication channel as said indication one or more of an output device identification, an intermediate output data indicator, a quality of service indicator, a price indicator, a status indicator, an output device attribute indicator, a rasterization parameter indicator, a format indicator, and a language indicator.

80. The output device of claim 78 further comprising means for providing over the communication channel an output device profile.

81. The output device of claim 77 further comprising means for converting the intermediate output data into an output data that is acceptable for rendering with the output device.

82. The output device of claim 77 further including means for receiving intermediate output data that includes at least one output image corresponding to at least part of the content.

83. The output device of claim 77 wherein the means for receiving an intermediate output data includes means for receiving

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the intermediate output data that includes data in accordance with MRC encoding.

84. The output device of claim 83 further comprising means for performing at least one image processing operation on the output image; the image processing operation including one or more of a color correction operation, a color matching operation, a color space conversion, a color management operation, a scaling operation, an interpolation operation, and a halftoning operation.

85. The output device of claim 77 further comprising means for conforming the intermediate output data into a print data that is acceptable to a printer controller associated with a printing device.

86. The output device of claim 77 in which the output medium is one or more of a substrate, a paper, a display screen, and a projector.

87. The output device of claim 77 in which the output device further comprises means for storing one or more output device profiles with one or more attributes corresponding to the output devices.

88. The output device of claim 77 further comprising means for receiving plural service requests from plural information apparatuses, the output device providing the at least part of the output device profile to each of the plural information apparatuses.

89. The output device of claim 77 in which the output device includes a printer.

90. The output device of claim 77 in which the output device further includes means for implementing payment processing as compensation for rendering of the output content on the output device.

91. The output device of claim 77 in which the output device further includes means for implementing job management functionalities with one or more of data output job queuing and spooling.

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92. The output device of claim 77 in which the output device further includes means for implementing a security procedure that limits access to the rendering provided by the selected output device.

93. The output device of claim 77 in which the output device further includes means for converting the output data content into a form compatible with the output engine.

94. An information apparatus for managing outputting of content to an output device, the content accessible at least partly by the information apparatus, the information apparatus comprising:

a communication unit to communicate with the output device,

a user interface for interacting with a user;

means for establishing a communication channel between the information apparatus and the output device;

means for receiving over the communication channel one or more components associated with the output device enabling the content to be rendered by the output device;

means for conforming at least part of the content into one or more output images with said one or more components;

means for generating an intermediate output data including said one or more output images and for rendering by the output device; and

means for delivering the intermediate output data to the output device for rendering.

95. The apparatus of claim 94, for managing outputting of content to an output device selected from a plurality of output devices, wherein the communication unit communicates with said plurality of output devices, and the apparatus includes means to select an output device from said plurality of output devices.

96. The apparatus of claim 94 in which the one or more components includes one or more of a rasterization vector, a price indicator, an availability indicator, a status indicator, an output data format indicator, and a quality of service indicator.

97. The apparatus of claim 94 in which the communication channel includes a wireless communication channel.

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98. The apparatus of claim 94 further comprising means for sending payment information over the communication channel as compensation for the rendering of the content by the output device.

99. An information apparatus for managing the outputting of content to an output device, the content accessible at least partly by the information apparatus, the information apparatus comprising:

a communication unit to communicate with one or more output devices;

a user interface for interacting with a user;

means for obtaining one or more device dependent attributes associated with the output device;

means for conforming at least part of the content into one or more output images with said one or more device dependent attributes, at least part of said one or more output images including mixed raster content encoding;

means for generating an intermediate output data including said one or more output images; and

means for delivering the intermediate output data to the output device for rendering.

100. The apparatus of claim 99 in which the means for obtaining one or more device dependent attributes includes means for obtaining from one or more sources that includes a user input, a network server, a default value stored in the information apparatus, and from the output device,

101. The apparatus of claim 99 further comprising means for establishing a wireless communication with one or more output devices.

102. The apparatus of claim 101 further comprising means for obtaining over the communication channel an output device profile that includes the device dependent attributes.

103. The apparatus of claim 101 further comprising means for sending payment information over the communication channel as compensation for the rendering of the content by the output device.

104. The apparatus of claim 99 in which the means for conforming includes means for conforming at least part of the content into at least one output image by one or more of a

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rasterization operation, a scaling operation, an interpolation operation, and a compression operation.

105. The apparatus of claim 99 in which the mixed raster content data includes at least a foreground layer.

106. An information apparatus capable of outputting content to an output device; the content accessible at least partly by the information apparatus, the information apparatus comprising:

a communication unit to communicate with an output device;

a user interface for interacting with a user;

means for establishing a communication channel between the information apparatus and the output device with short range wireless communication;

means for conforming at least part of the content into at least one output image with at least one predefined standard rasterization parameter values;

means for generating an intermediate output data including the one or more output image, the intermediate output data being at least partly device independent; and

means for delivering via the established communication channel the intermediate output data to the output device for rendering.

107. The apparatus of claim 106 wherein the communication unit communicates with a plurality of output devices and the information apparatus includes means for selecting an output device of said plurality to receive the intermediate output data.

108. The apparatus of claim 106 further comprising means for obtaining over the communication channel an output device profile.

109. The apparatus of claim 106 further comprising means for obtaining over the communication channel information related to the intermediate output data format.

110. The apparatus of claim 106 further comprising means for sending payment information over the communication channel as compensation for the rendering of the content by the output device.

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111. The apparatus of claim 106 in which the predefined standard rasterization values is included in the information apparatus.

112. The apparatus of claim 106 in which the means for conforming includes means for performing one or more of a rasterization operation, a scaling operation, an interpolation operation, and a compression operation.

113. The apparatus of claim 106 in which the means for conforming conforms at least part of the content into an output image that includes mixed raster content encoding.

114. A data output method for rendering at an output device content at least partly accessible with an information apparatus, comprising:

obtaining at the information apparatus one or more rasterization parameters corresponding to the output device;

conforming at the information apparatus at least part of the data content into one or more output images with said one or more rasterization parameters;

transmitting an intermediate output data from the information apparatus to an output controller that is distinct from the information apparatus and associated with the selected output device, the intermediate output data including said one or more output image;

converting at the output controller, the intermediate output data into an output data acceptable for rendering at the output device.

115. The method of claim 114 comprising obtaining the one or more rasterization parameters from one or more of the output device or user input or default value.

116. The method of claim 114 in which the one or more output images are associated with different slides, pages or cards.

117. The method of claim 114 in which the conforming includes one or more of a rasterization operation, a scaling operation, an interpolation operation, and a compression operation.

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118. The method of claim 114 in which the content includes text or graphics elements and the conforming of at least part of the content include rasterizing the content into image form.

119. The method of claim 114 comprising transmitting the intermediate output data by wireless communication.

120. The method of claim 114 in which the output controller is included in the output device.

121. The method of claim 114 further comprising performing at the output controller one or more image processing operations on the one or more output images included in the intermediate output data, the one or more image processing operations including one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation operation, a color space conversion, a compression operation, and a halftoning operation.

122. The method of claim 114 in which the output device is a printing device and the method further comprising conforming the intermediate output data into a print data that is acceptable to a printer controller associated with the output device.

123. The method of claim 114 further comprising obtaining at the information apparatus a data content for rendering at the selected output device.

124. A data output method for rendering content at least partly accessible with an information apparatus, comprising:

establishing a communication channel between the information apparatus and one or more output devices with short range wireless communication;

conforming at the information apparatus at least part of the data content into one or more output images with at least one predefined or standard rasterization parameters;

generating at the information apparatus a device independent intermediate output data, the intermediate output data including the one or more output images ;

delivering via the established communication channel the intermediate output data from the information apparatus to said one or more output devices for rendering; and

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converting at said one or more output devices the intermediate output data into an output data acceptable for rendering by an output engine included in said one or more output devices.

125. The method of claim 124 further comprising discovering the selected output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering the output content.

126. A data output method for rendering at an output device content at least partly accessible with an information apparatus, comprising:

selecting an output device with an output engine for rendering the data content;

conforming at least part of the content into one or more output images with at least one rasterization parameter related at least in part to the selected output device; generating an intermediate output data that includes said one or more output images;

delivering the intermediate output data for rendering by the selected output device;

receiving at the selected output device the intermediate output data;

performing one or more image processing operations on said one or more output images; and

converting at the selected output device the intermediate output data into an output data acceptable for rendering by the output engine included in the selected output device.

127. The method of claim 126 further comprising discovering the selected output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering the output content.

128. The method of claim 127 in which the information apparatus discovers the one or more output devices with wireless communication.

129. The method of claim 127 in which discovering the one or more output devices includes the information apparatus sending an

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output service request and awaiting a response from one or more output devices.

130. The method of claim 127 in which discovering the one or more output devices includes one or more output devices posting their availability and the information apparatus contacting one or more of the one or more output devices.

131. The method of claim 127 in which discovering the one or more output devices includes the information apparatus obtaining from a service node information about the one or more output devices and the information apparatus contacting one or more of the one or more output devices.

132. The method of claim 127 in which discovering one or more output devices involves determining if the one or more output devices satisfy one or more output service requirements.

133. The method of claim 127 further comprising obtaining at least partial output device profile form the one or more output devices that are discovered.

134. The method of claim 127 further comprising providing at the information apparatus information related to the one or more output devices discovered by the information apparatus and obtaining from a user a selection of the selected output device.

135. The method of claim 126 in which the selecting includes automatic selection by one or more components of the information apparatus.

136. A raster image processing method for processing content into an output data acceptable for rendering by an output engine included in an output device, the output data corresponding to data content accessible at least partly from an information apparatus, the method comprising:

rasterizing at the information apparatus at least part of the content into one or more output images with at least one rasterization parameter associated with the output device;

generating at the information apparatus an intermediate output data for rendering of the data content at the output device,

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the intermediate output data including said one or more output images;

transmitting the intermediate output data from the information apparatus for rendering at the output device;

performing at least one image processing operation, at an output controller that is distinct from the information apparatus and associated with the output device, on said one or more output images included in the intermediate output data; and

conforming at the output controller the intermediate output data into the output data acceptable for rendering by the output engine.

137. The method of claim 136 comprising rasterizing at least part of the content into said one or more output images with rasterization parameters that include one or more of resolution, color space, output size, and bit depth.

138. The method of claim 136 comprising encoding said one or more images with mixed raster content encoding.

139. The method of claim 136 comprising transmitting the intermediate output data by wireless communication.

140. The method of claim 136 comprising performing at least one image processing operation, on the one or more output images that includes one or more of a color correction operation, a color matching operation, a color management operation, a scaling operation, an interpolation operation, a color space conversion, and a halftoning operation.

141. The method of claim 136 comprising conforming the intermediate output data by performing one or more of compression, decompression, segmentation, de-segmentation, storing, and retrieving.

142. A raster image processing method for processing content into a print data acceptable for rendering by a printer engine included in a printing device, the printing device including a printer controller, the print data corresponding to content accessible at least partly from an information apparatus, the method comprising:

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rasterizing at the information apparatus at least part of the content into one or more output images with at least one rasterization parameter;

generating at the information apparatus an intermediate output data that includes the one or more output images;

transmitting at the information apparatus the intermediate output data from the information apparatus to a processor distinct from the information apparatus and associated with the printing device;

converting at the processor the intermediate output data into a print data acceptable to the printer controller, and

raster image processing at the printer controller the print data for rendering by the printer engine.

143. The method of claim 142 comprising rasterizing at least part of the content with rasterization parameters including one or more of resolution, color space, output size, bit depth, and rendering intent.

144. The method of claim 142 comprising encoding the one or more images with mixed raster content encoding.

145. The method of claim 142 comprising transmitting the intermediate output data by wireless communication.

146. The method of claim 142 further comprising interpreting the intermediate output data and retrieving the one or more output images.

147. The method of claim 146 further comprising one or more operations on the one or more output images that include one or more of compression, decompression, segmentation, de-segmentation, storing, retrieving, color correction, color management, scaling, interpolation, color space conversion, and decryption.

148. The method of claim 142 in which the converting of the intermediate output data includes embedding the one or more output image information into the print data.

149. A method of processing content, comprising:

creating raster data by rasterizing at least part of the content;

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creating one or more images with at least two raster-form layers for storing segmented information associated with at least part of the content;

storing at least part of the raster data into the at least two raster-form layers according to the segmented information; and

transmitting an output data that includes said one or more images by local short range communication to an output device or system for rendering.

150. The method of claim 149 comprising creating raster data by rasterizing content that includes at least part of a text or graphics information.

151. The method of claim 149 comprising creating one or more images with each raster-form layer including one or more image attributes that differentiate it from other layers, the one or more attributes including one or more of resolution, color space, output size, bit depth, and compression method, digital watermark, and rendering intent.

152. The method of claim 149 comprising creating one or more images with at least two raster-form layers for storing segmented information that includes an association with one or more of a background and a foreground, and a luminance and a chrominance.

153. The method of claim 149 comprising creating one or more images with at least two raster-form layers for storing segmented information that includes an association with one or more of a text, a graphics, an image, a video, and an audio.

154. The method of claim 149 comprising creating one or more images with at least two raster-form layers, and at least one a selector layer.

155. The method of claim 150 further comprising one or more operations on one or more of the raster-form layers that include one or more of compression, decompression, segmentation, de-segmentation, storing, retrieving, color correction, color management, scaling, interpolation, color space conversion, encryption, digital watermarking, and halftoning.

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156. The method of claim 149 comprising transmitting the output data by short-range wireless communication.

157. A raster image processor for processing content, comprising:

means for creating raster data by rasterizing at least part of the content,

mean for creating one or more images with at least two raster-form layers for storing segmented information associated with at least part of the content,

means for storing at least part of the raster data into the at least two raster-form layer according to the segmented information, and

means for passing said one or more images for delivery to an output device or system.

158. The processor of claim 157 in which the content includes text or graphics information.

159. The processor of claim 157 wherein the means for creating one or more images creates raster-form layers that each include one or more image attributes that differentiate it from other layers, the one or more attributes including one or more of resolution, color space, output size, resolution, bit depth, compression method, digital watermark, and rendering intent.

160. The processor of claim 158 further comprising means for performing one or more operations on one or more of the raster-form layers, said one or more operations including one or more of compression, decompression, segmentation, de-segmentation, storing, retrieving, color correction, color management, scaling, interpolation, color space conversion, encryption, digital watermarking, and halftoning.

161. The processor of claim 157 further comprising means for delivering the one or more images to an output device or system with short-range wireless communication.

162. The method of claim 157 in which the output device or system includes printing device.

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163. A raster image processing method for processing content into output data acceptable for rendering by an output engine included in an output device, the output data corresponding to content accessible at least partly from an information apparatus, the method comprising:

rasterizing at the information apparatus at least part of the content into an output image with at least two raster-form data layers and a selector mask layer, each raster-form data layer being associated with a segmentation type associated to an attribute related to information contained in the data content;

performing at least one image processing operation, at a processor distinct from the information apparatus and associated with the output device, on each data layer of the output image; and

conforming at the processor the output image into a form acceptable for rendering by the output engine.

164. The method of claim 163 comprising rasterizing content that includes at least part of a text or graphics information.

165. The method of claim 163 comprising rasterizing content into raster-form layers that each include one or more attributes that differentiate it from other layers, the one or more attributes including one or more of resolution, color space, output size, bit depth, and rendering intent.

166. The method of claim 163 comprising rasterizing content into raster-form data layers each associated with segmentation information that includes an association with one or more of a background and a foreground, and a luminance and a chrominance.

167. The method of claim 163 in which the segmented information includes an association with one or more of text, graphics, image, video, and audio.

168. The method of claim 163 comprising performing image processing operations that include one or more of a compression, decompression, segmentation, de-segmentation, storing, retrieving, color correction, color management, scaling, an interpolation, color space conversion, encryption, digital watermarking, and halftoning.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

169. The method of claim 163 further comprising transmitting the output image to the processor with short-range wireless communication.

170. The method of claim 57 further comprising providing payment information over the communication channel as compensation for the rendering of the content by the output device.

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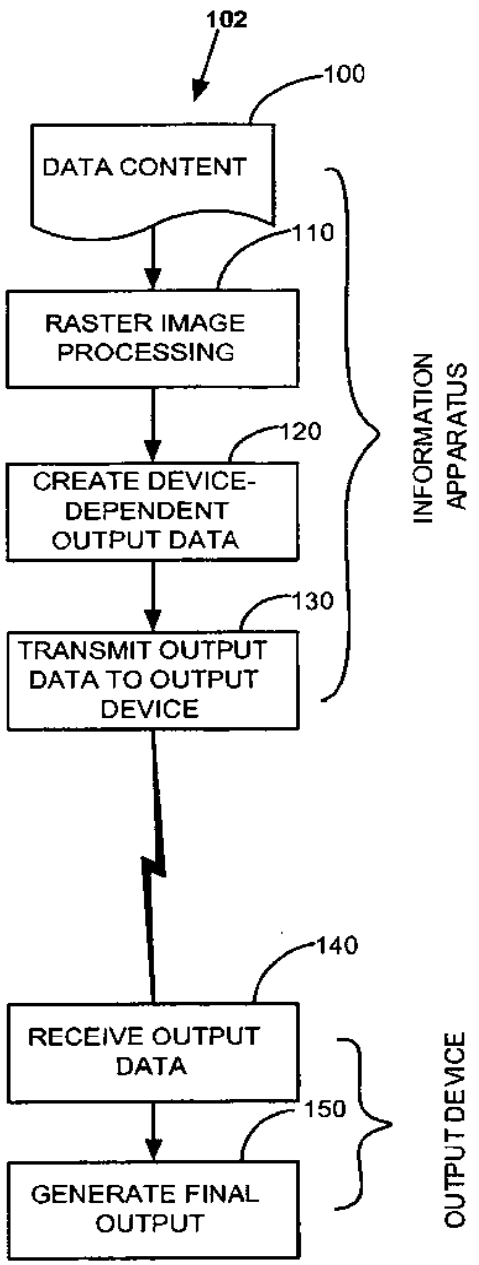


FIG 1 A

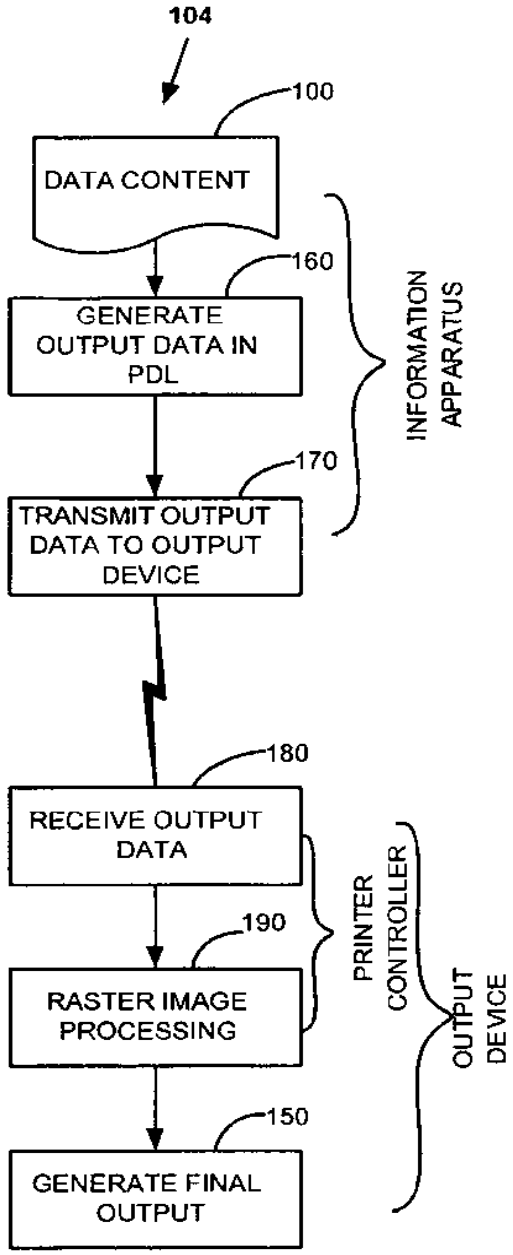


FIG 1 B

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

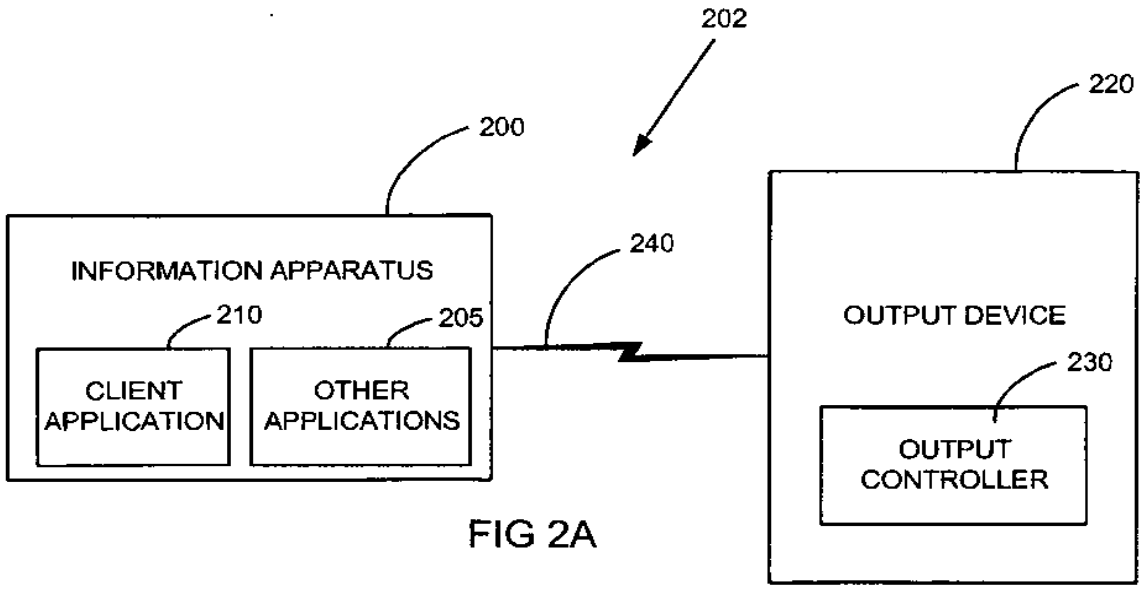


FIG 2A

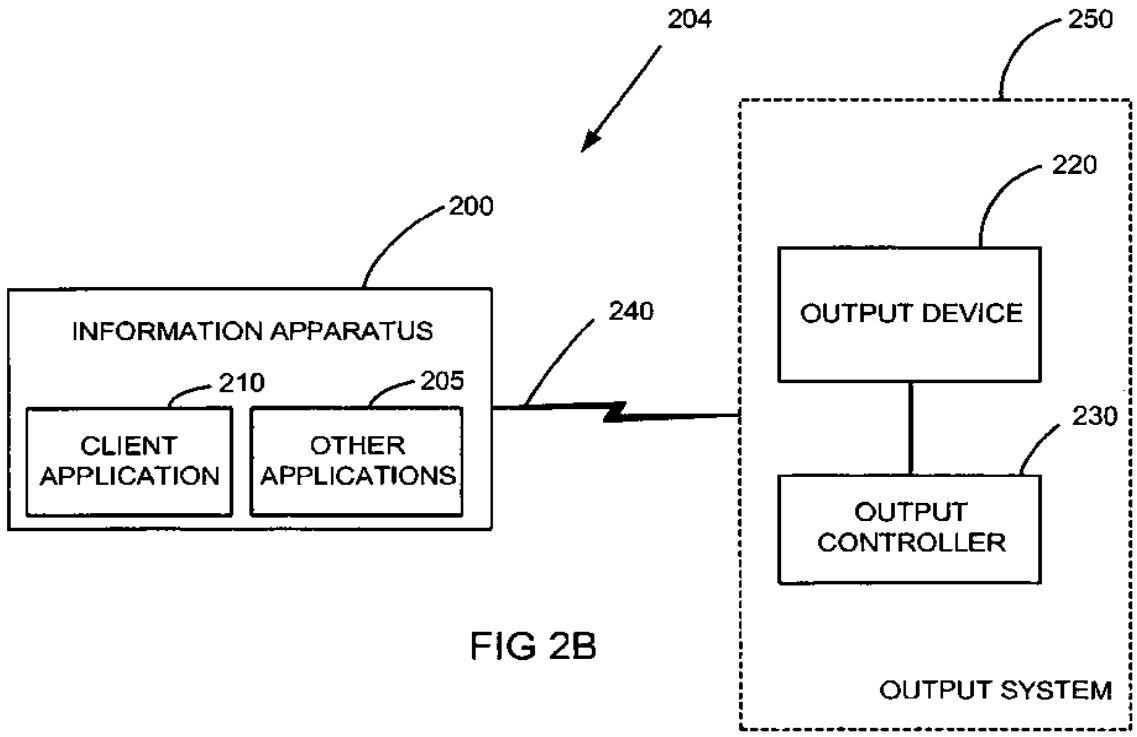


FIG 2B

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Lexmark v. Flexiworld

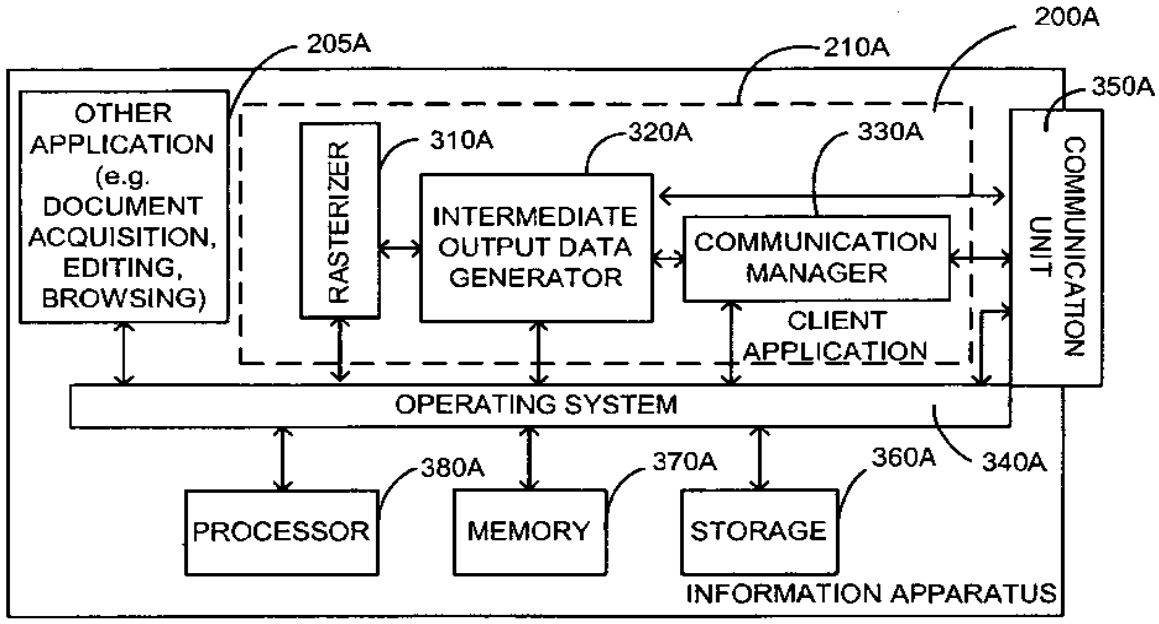


FIG 3A

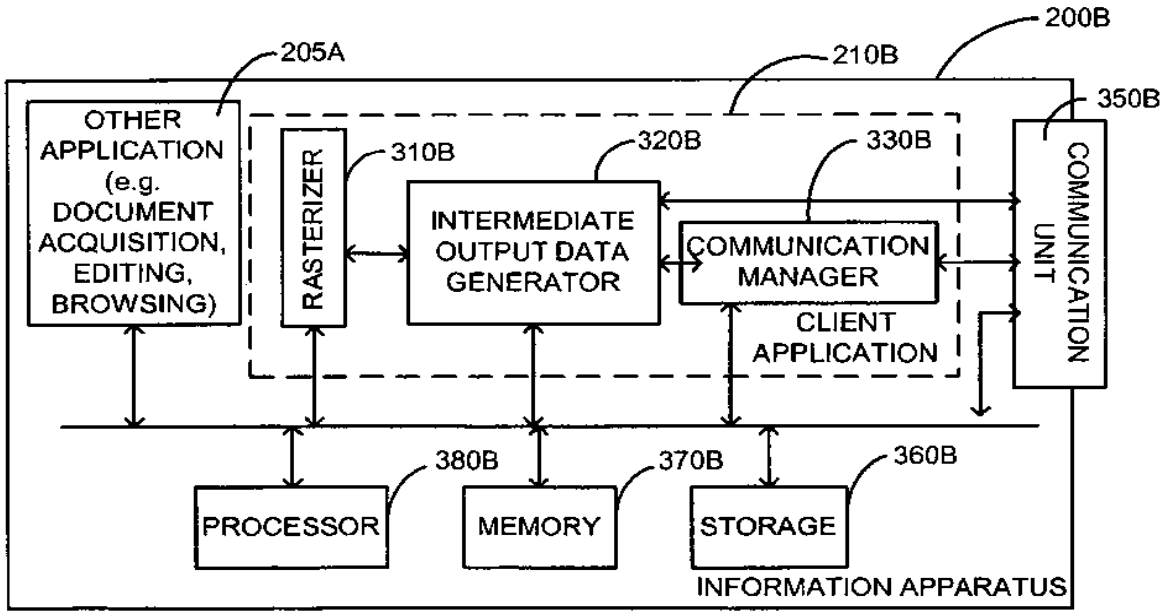


FIG 3B

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Lexmark v. Flexiworld

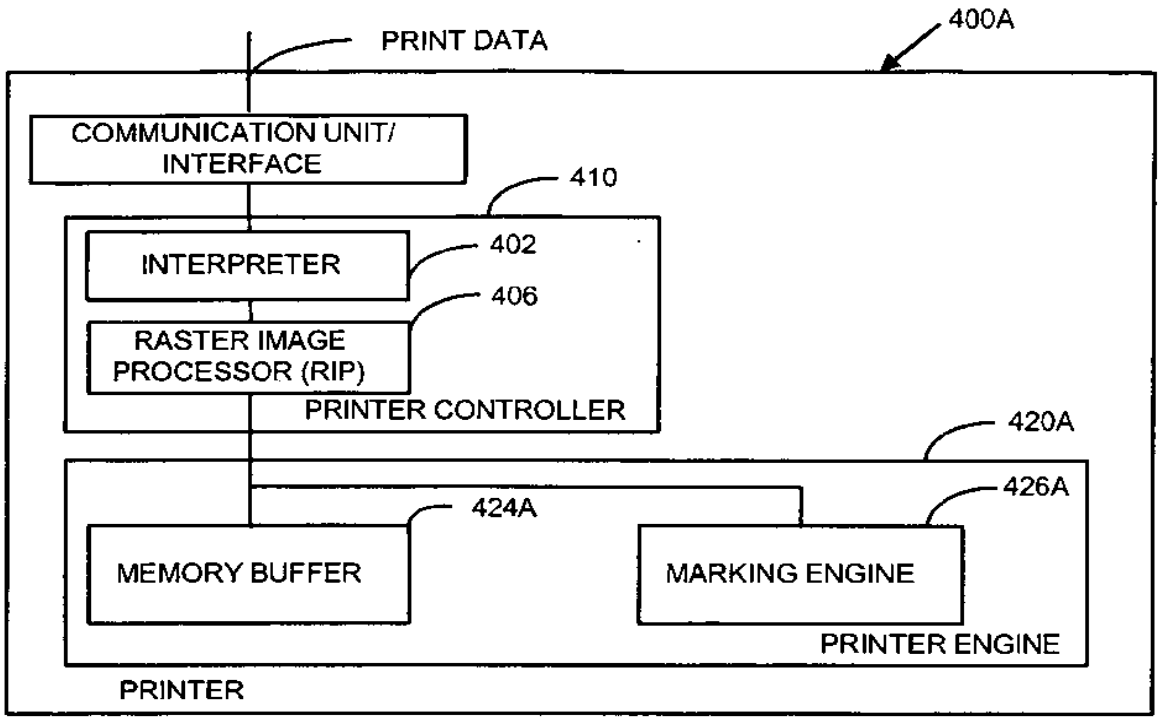


Fig. 4 A

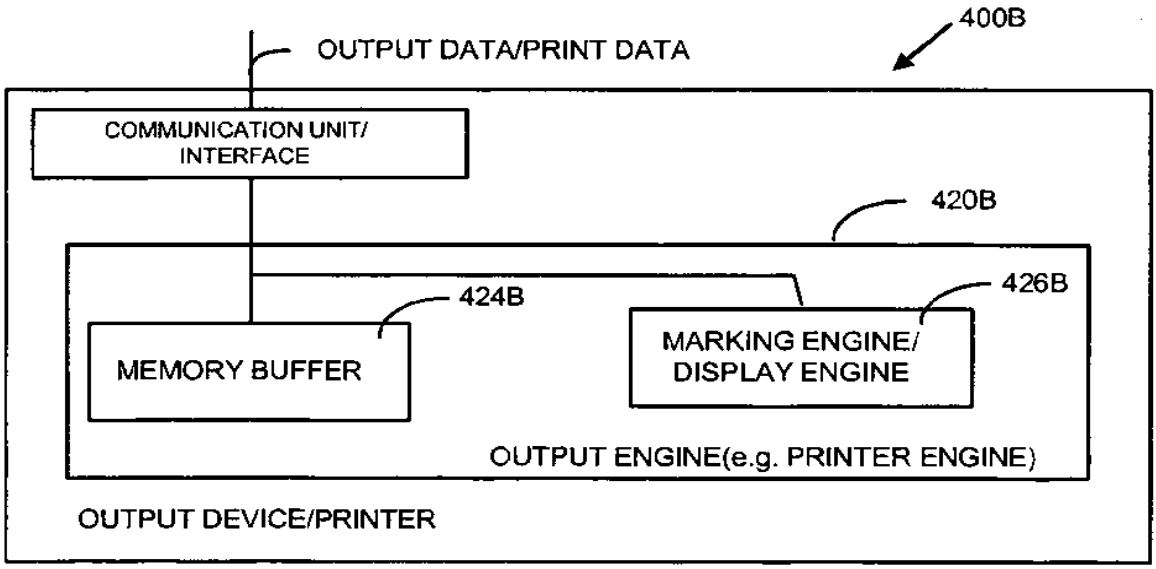


Fig. 4 B

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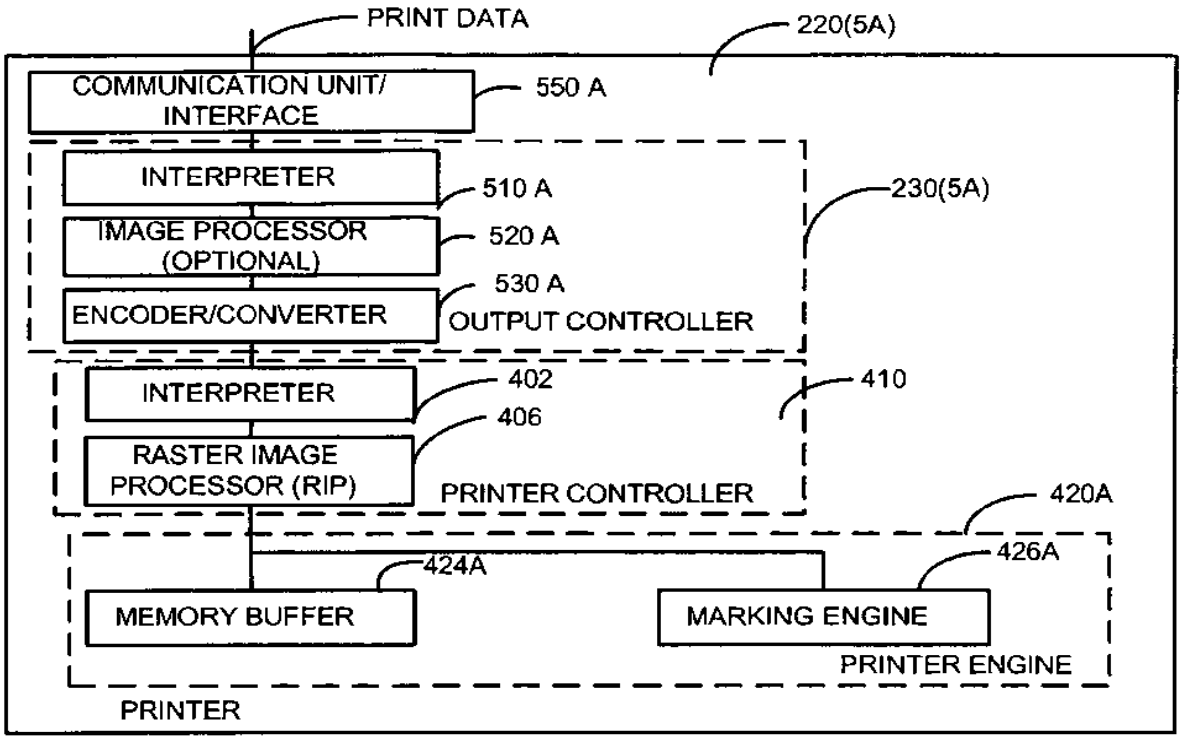


Fig. 5 A

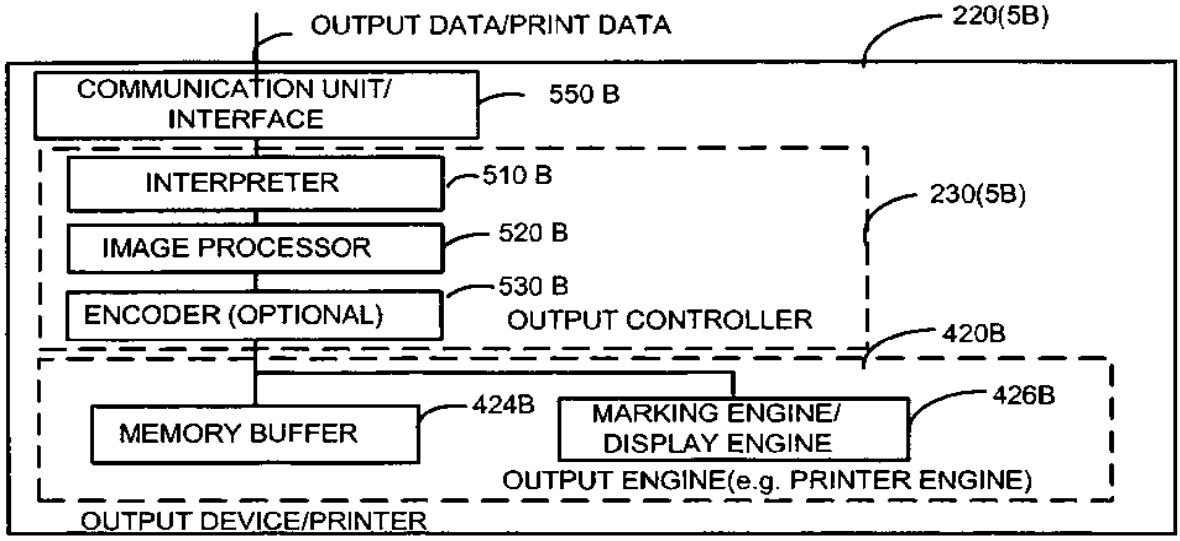


Fig. 5 B

Lexmark, Exhibit 1003
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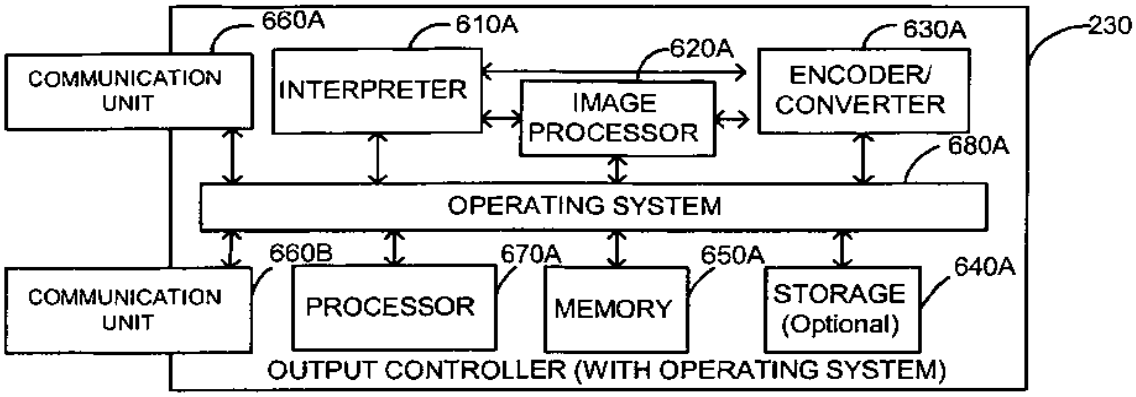


Fig 6 A

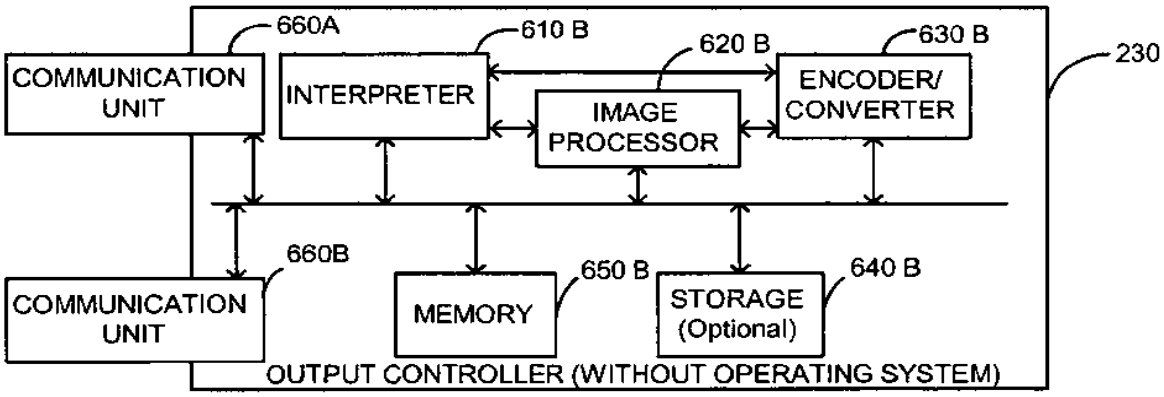


FIG 6 B

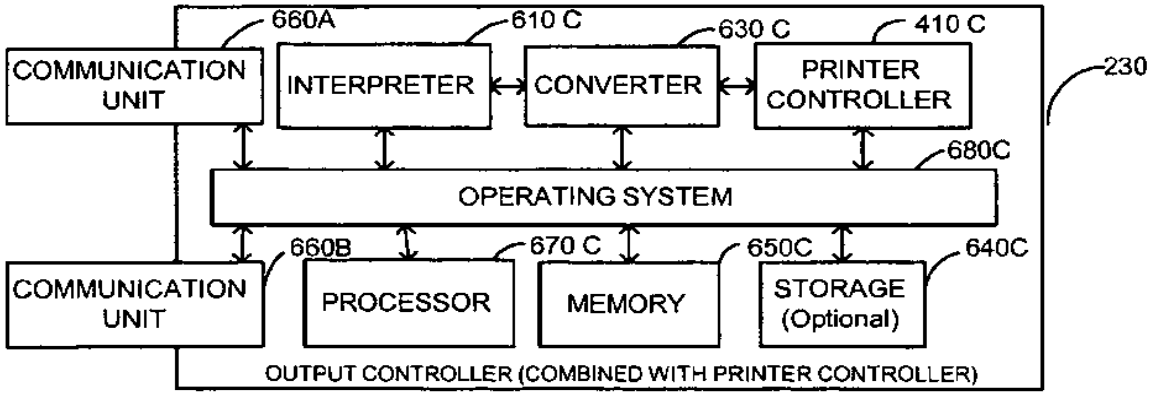


FIG 6 C

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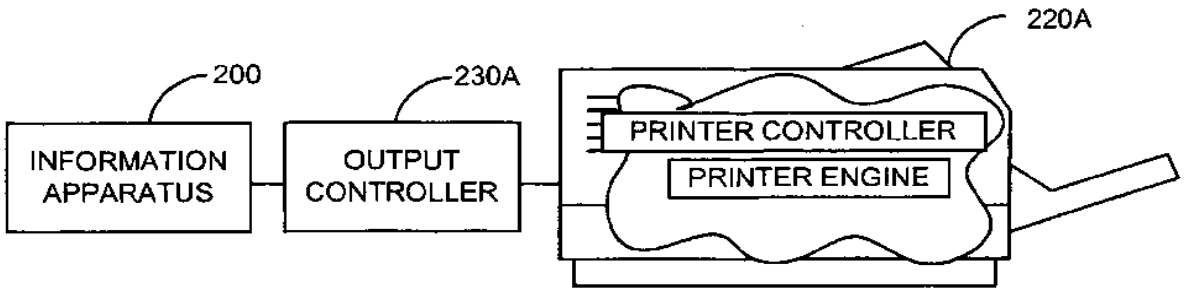


Fig. 7A

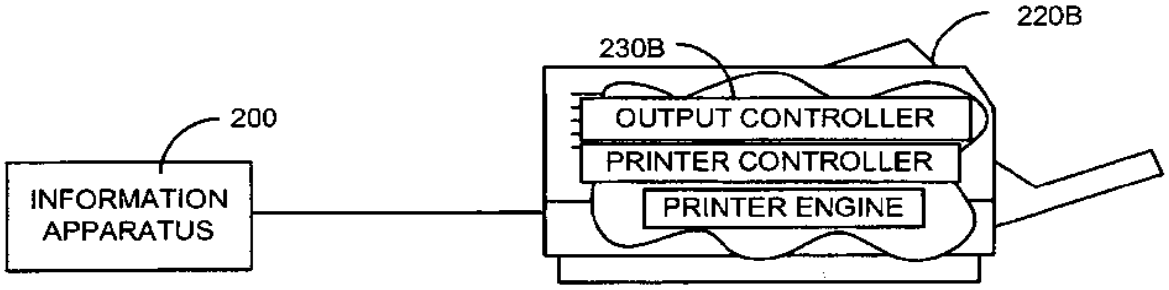


Fig. 7B

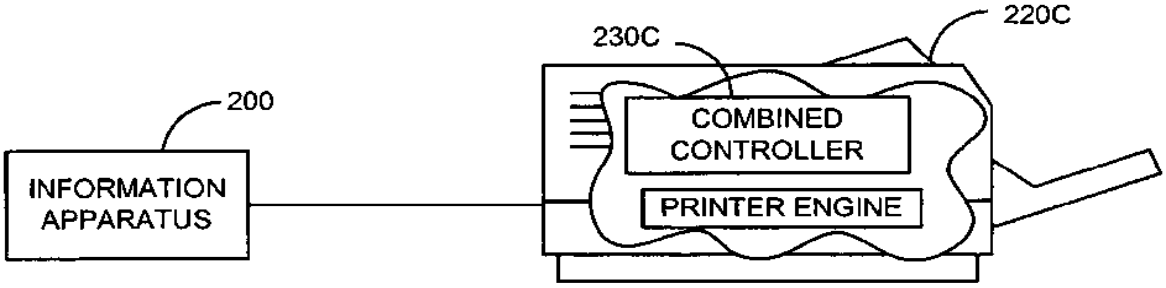


Fig. 7C

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Lexmark v. Flexiworld

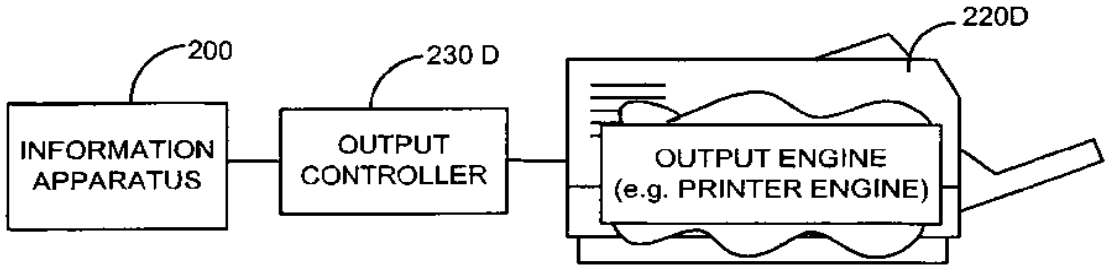


FIG 7D

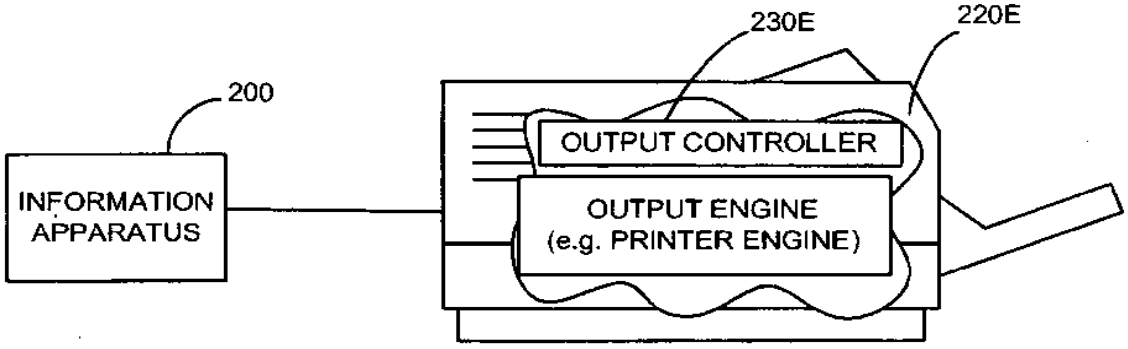


FIG 7E

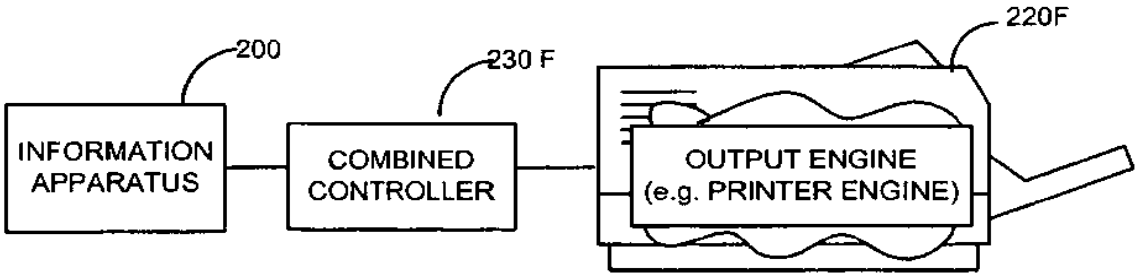


FIG 7F

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Lexmark v. Flexiworld

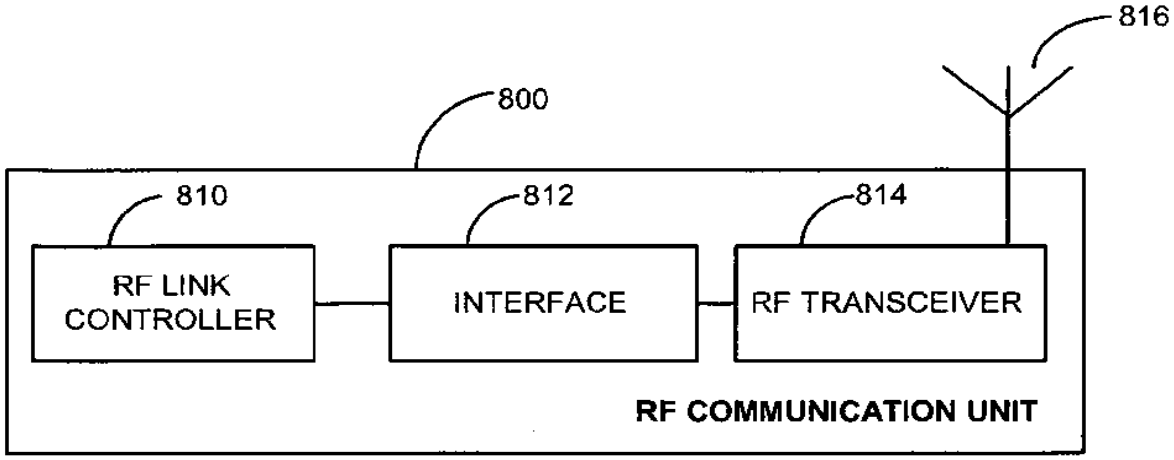


FIG 8A

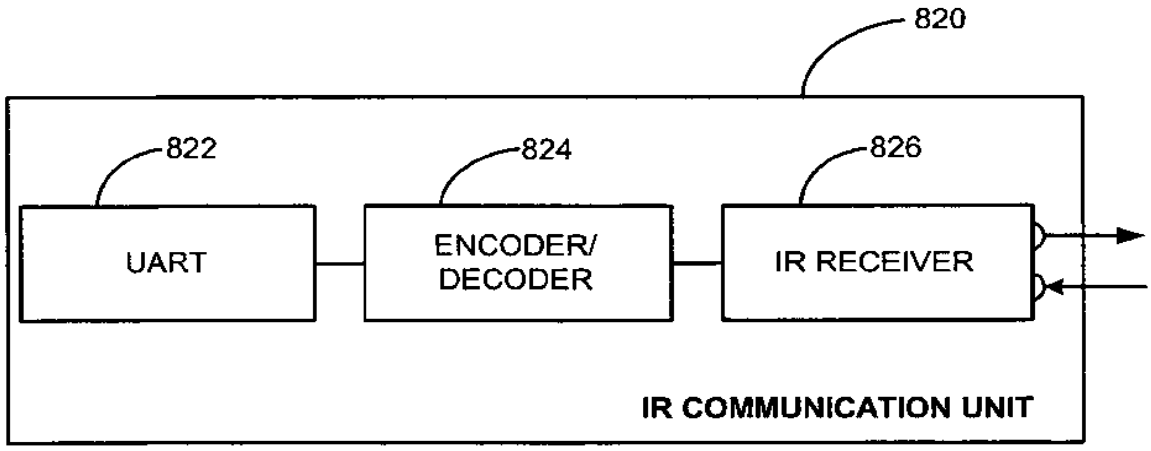


FIG 8B

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Lexmark v. Flexiworld

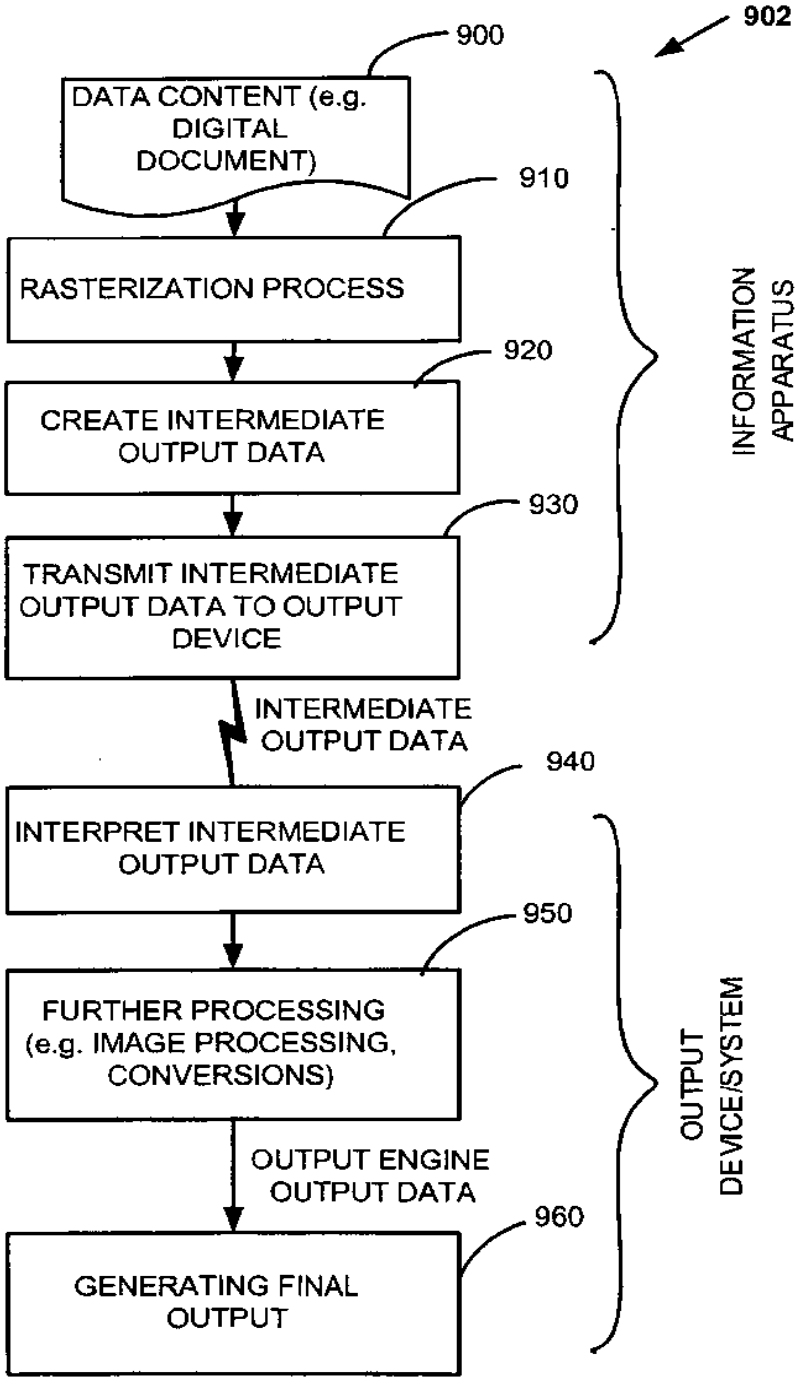


FIG 9

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Lexmark v. Flexiworld

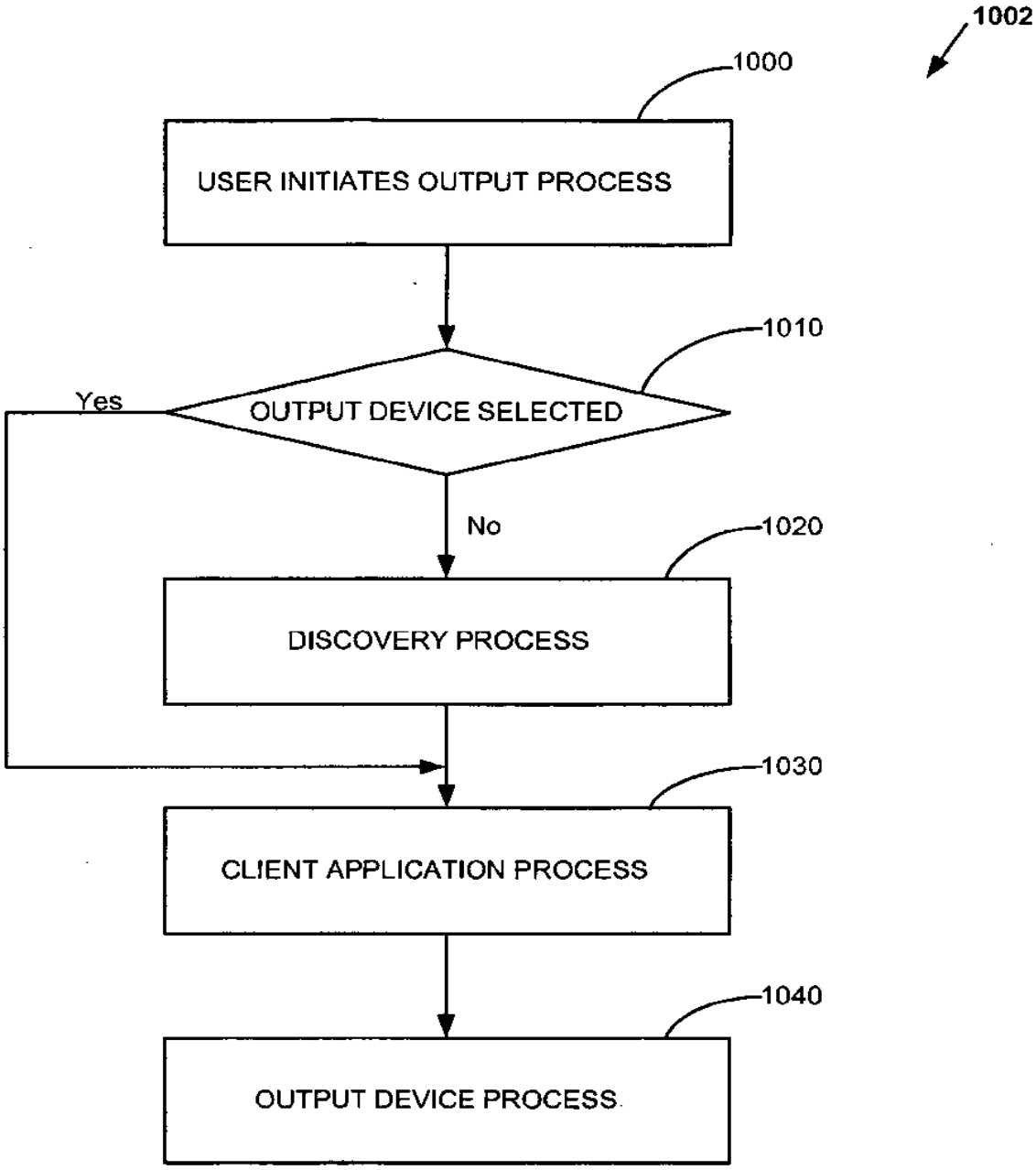


FIG 10

Lexmark, Exhibit 1003
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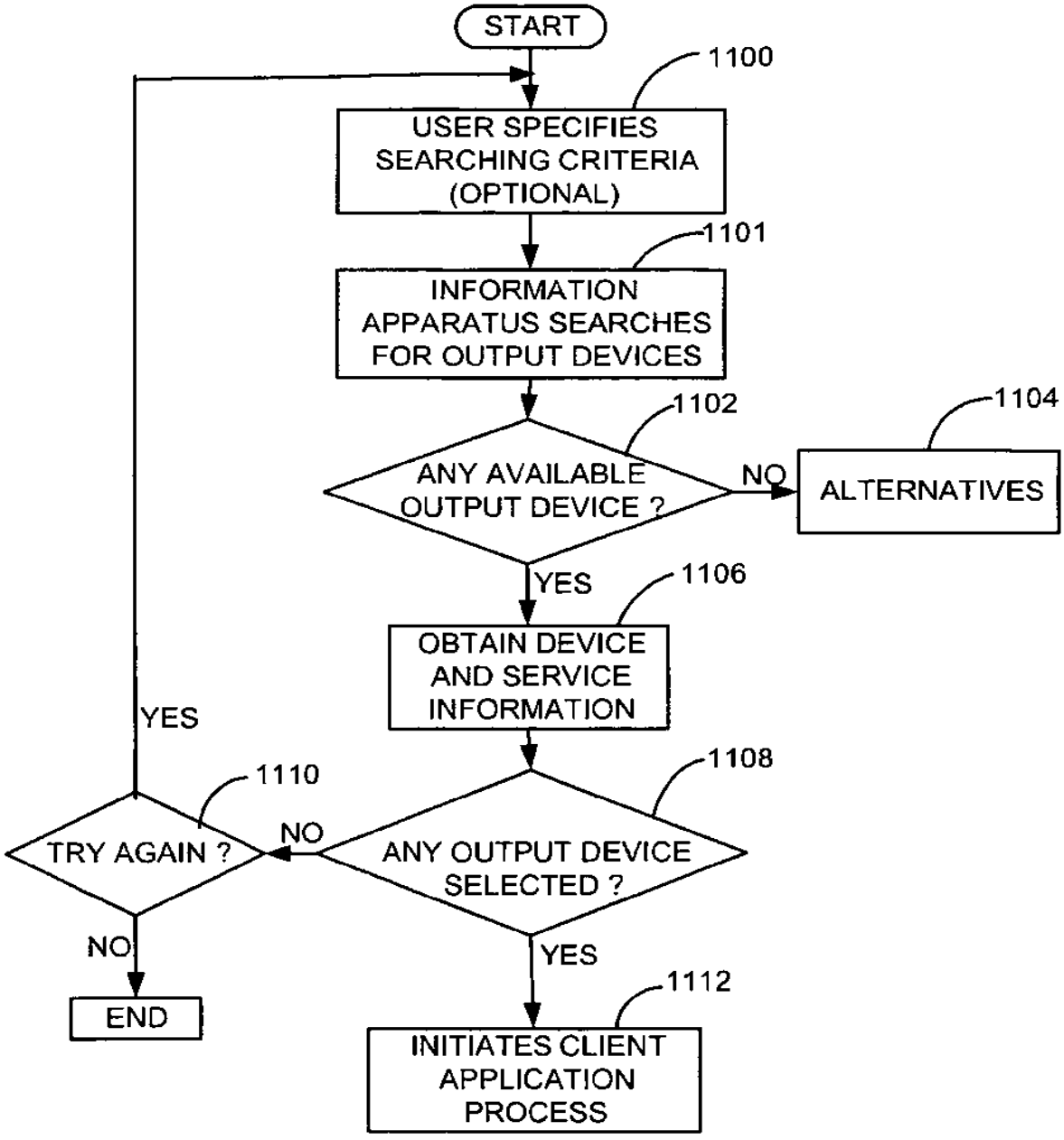


FIG 11

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

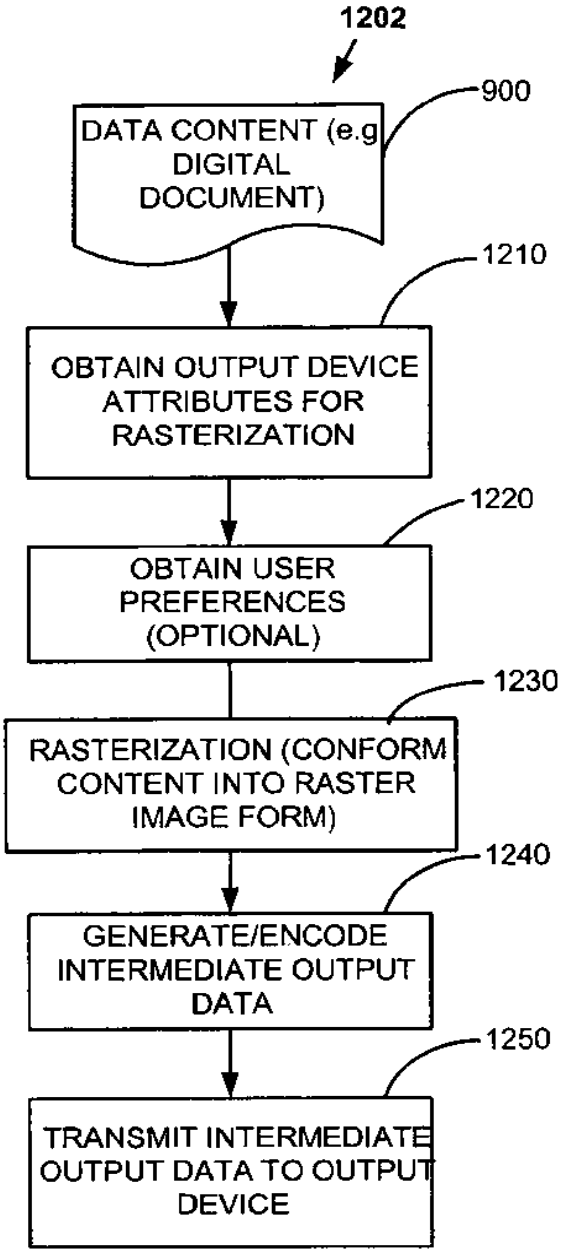


FIG 12 A

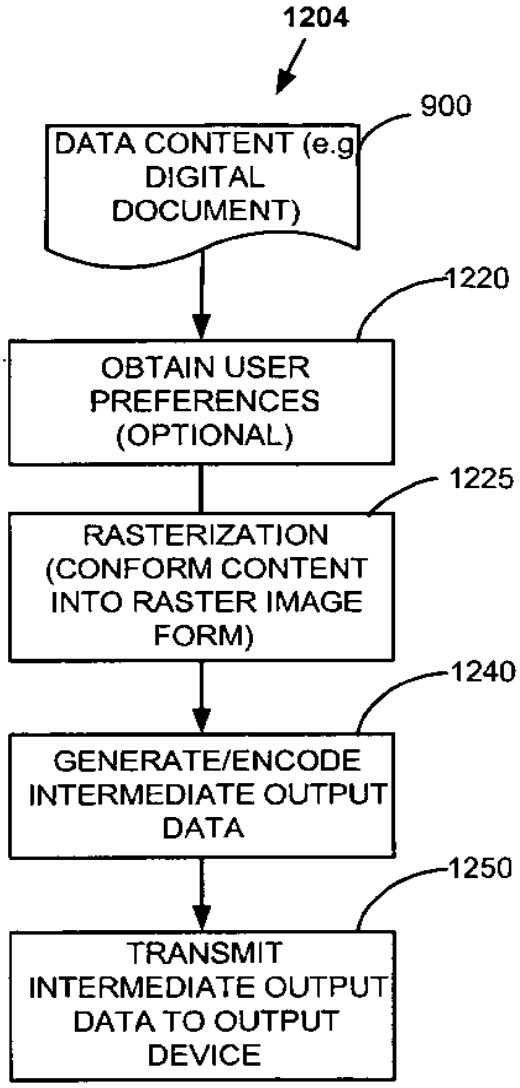


FIG 12 B

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Lexmark v. Flexiworld

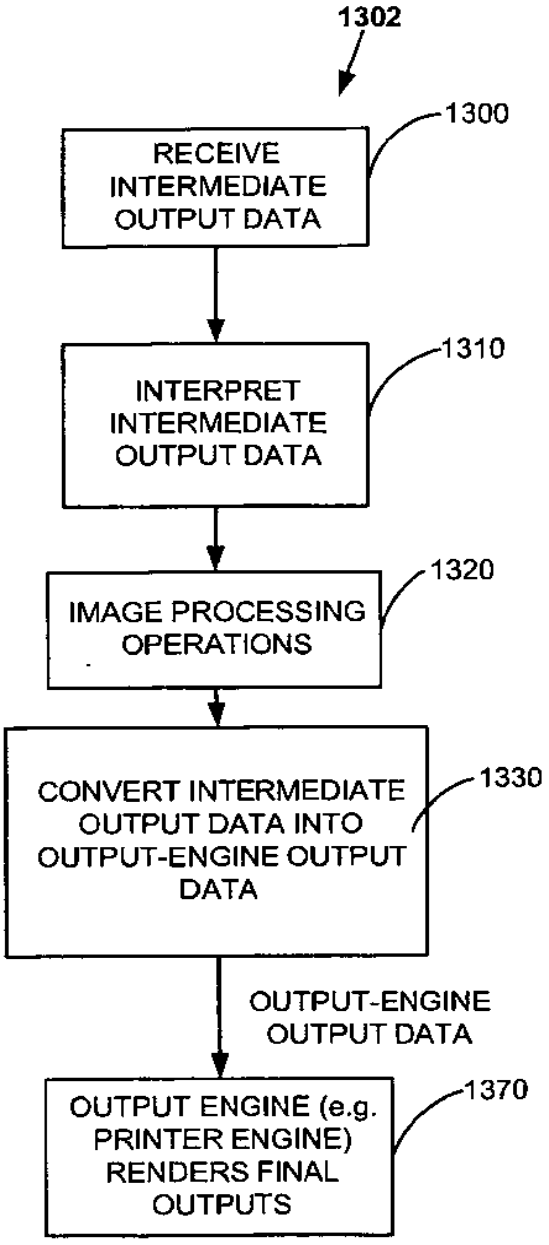


FIG 13 A

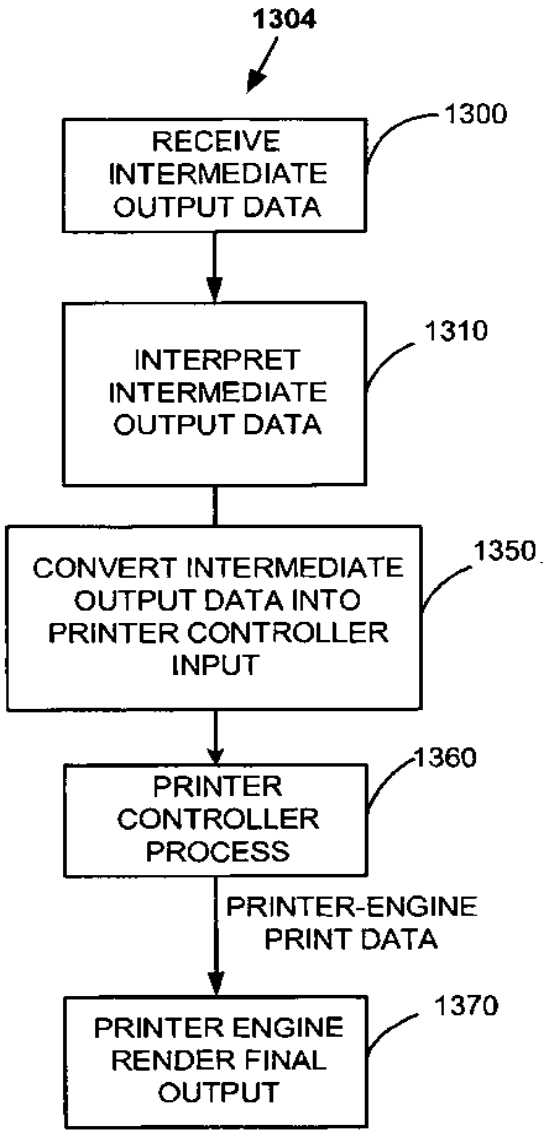


FIG 13 B

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/43796

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G06F 3/12, 15/177
US CL : 707/526; 709/327, 358/1.6; 717/176
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 707/526; 709/327, 358/1.6; 717/176

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,867,633 A (TAYLOR, III et al.) 02 February 1999 (02.02.1999), abstract, Figures 1 & 4, column 1, lines 59-67, column 2, lines 1-40, column 3, lines 15-31, column 4, lines 45-64, column 5, lines 3-10 & 25-45, column 6, lines 1-7, 15-20, 30-40, & 55-61, column 7, lines 45-50, column 8, lines 10-20.	42-43, 45-48, 164-171, 195 ---------- 1-41,44,140,144,161,162,195
Y	EP 952513 A1 (HEWLWTT PACKARD COMPANY) 27 October 1999 (27.10.1999), abstract, Figure 1, column 2, lines 35-45, column 3, lines 25-30, column 4, lines 15-20, 29-35, column 5, lines 20-25, column 6, lines 1-7.	6-9, 12, 20-22, 25, 28, 40-41, 44
y	ANONYMOUS. Windows for Workgroups - This Newest Version of Windows has Features and Capabilities that Make it a Natural in a Networked Environment Windows Magazine January 1993, No. 401, page 132, see entire document.	1-41

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search 17 March 2002 (17.03.2002)	Date of mailing of the international search report 24 APR 2002
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703)305-3230	Authorized officer Jeffrey Allen ROSSI Telephone No. 305-3700

Form PCT/ISA/210 (second sheet) (July 1998)

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/43796

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,613,124 A (ATKINSON et al.) 18 March 1997 (18.03.1997), Figure 4, column 6, lines 9-20 & 30-52; column 8, lines 23-25 & 40-50, column 10, lines 10-15 & 57-60, column 12, lines 20-25 & 30-42.	49-73, 77-86, 88, 96-97, 100-103, 107, 111, 118-124, 126, 128, 130-131, 135-139, 141, 144, 146, 147-154, 156, 157, 160, 163, 180, 184, 186-190, 193-194, & 211-212 --- 74-74, 89-95, 104-105, 112-116, 140, 144, 161, 164-171, 173-175, 177-179, 196-204, 208-210
Y	SCHULYER, C. et al. Solution to Sharing Local Printers: LAN Systems Inc., LANSpool, $395 per Server PC Week October 1989, Vol. 6, No. 39, pages 75(2), see entire document.	164-171, 173-179, 181
A	US 5,748,859 A (TAKAYANAGI et al.) 05 May 1998 (05.05.1998).	1-212
A	US 6,061,142 A (SHIM) 09 May 2000.	1-212
A	US 6,115,133 A (WATANABE) 05 September 2000.	1-212
A	EP 751,650 A2 (CANON KABUSHIKI KAISHA) 02 January 1997 (02.01.1997).	1-212
A	EP 961,184 A2 (FISHER-ROSEMOUNT SYSTEMS, INC.) 01 December 1999 (01.12.1999).	1-212
A	CATON, M. JetEye Users Pay for Convenience PC Week June 1996, Vol. 13, No. 25, page 1.	1-212
A	ZULICH, M. Learning to Share in SOHO Computer Shopper, Vol. 18, No. 7, page 274.	1-212
A	WONG, W. Light Moves LAN Magazine, May 1995, Vol. 10, No. 5, page 164(4).	1-212
A	SULLIVAN, K. Hi-tech Achieved with Class; SchoolDistrict Adopts Wireless LAN to Bring PCs to Students. PC Week August 1997, Vol. 14, No. 34, pages 83(2).	1-212
A,P	US 6,178,468 B1 (RUDD et al.) 23 January 2001 (23.01.01).	1-212

Form PCT/ISA/210 (second sheet) (July 1998)

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/43796

Continuation of B. FIELDS SEARCHED Item 3:
Dialog: USPATFUL, European Patents Fulltext, PCT Fulltext, EECOMP, COMPSCI

keywords: output()object, display()object, printer, device()object, render, retrieving()(parameters or attributes), pervasive()output, remote()(processing or rendering), client, server, network, wireless, document, page,

Form PCT/ISA/210 (second sheet) (July 1998)

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

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Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

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Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	18880139
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	28-APR-2014
Filing Date:	18-NOV-2001
Time Stamp:	16:59:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$180

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RAM confirmation Number	3619
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20140428_IDS_FXT312.pdf	613299 578919c927cbd566aa02ea3e101ab2e1d9f4e925f	no	6
Warnings:					
Information:					
2	Foreign Reference	FP01_WO02084928A2.pdf	1691715 d90689d31b8831e181a98406b0cb1ee76795d38	no	105
Warnings:					
Information:					
3	Non Patent Literature	NPL01_File_Wrappers.pdf	7122410 222d039a127ea78b774b26880514881031b648d0	no	139
Warnings:					
Information:					
4	Non Patent Literature	NPL02_20020320_ISR_PCTUS01_43796.pdf	106895 e90c59820d0d24cb6188148b80de4c100c7f80	no	3
Warnings:					
Information:					
5	Non Patent Literature	NPL03_20110125_NOA_09992183.PDF	6028169 50e1fb3ab87fe779f8581abd03e7a1cae7e698	no	34
Warnings:					
Information:					
6	Non Patent Literature	NPL04_20140422_Final_Office_Action.PDF	12207079 a9197194964dd8eed1130196a180d03f7d0dae4	no	68
Warnings:					
Information:					
7	Non Patent Literature	NPL05_20140225_NOA_FXT308CON2B.PDF	25458037 5ba4db91d8e94f9bb969e3d1030818f0bca8697	no	104
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	30092 7aa0bb08ad8812d8f8d46100d2d1666709f	no	2

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Information:	
Total Files Size (in bytes):	53257696

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	3629493		1971-12-21	Morgenfruh	
	2	3833297		1974-09-03	Swartz	
	3	3848856		1974-11-19	Reeber et al.	
	4	4262301		1981-04-14	Erlichman	
	5	4266863		1981-05-12	Hollingsworth et al.	
	6	4291956		1981-09-29	Vogelgesang	
	7	4291957		1981-09-29	Hollingsworth	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

	9	4335955		1982-06-22	Lopata	
	10	4340905		1982-07-20	Balding	
	11	4360264		1982-11-23	Baker et al.	
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	13	4428001		1984-01-24	Yamamura et al.	
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	16	4495490		1985-01-22	Hopper et al.	
	17	4539585		1985-09-03	Spackova et al.	
	18	4541010		1985-09-10	Alston	
	19	4553835		1985-11-19	Morgan, Jr.	

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	20	4580880		1986-04-08	Watson	
	21	4602280		1986-07-22	Maloomian	
	22	4603330		1986-07-29	Horne et al.	
	23	4758881		1988-07-19	Laspada	
	24	4956665		1990-09-11	Niles	
	25	4958220		1990-09-18	Alessi et al.	
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	27	5257097		1993-10-26	Pineau et al.	
	28	5303342		1994-04-12	Edge	
	29	5479206		1995-12-26	Ueno et al.	
	30	5568595		1996-10-22	Yosefi et al.	

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	31	5619257		1997-04-08	Reele et al.	
	32	5644662		1997-07-01	Vuylsteke	
	33	5664243		1997-09-02	Okada et al.	
	34	5675717		1997-10-07	Yamamoto	
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	42	5946110		1999-08-31	Hu et al.	
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	44	5960162		1999-09-28	Yamamoto	
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	46	6069707		2000-05-30	Pekelman	
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	49	6215494		2001-04-10	Teo	
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If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

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Lexmark v. Flexiworld

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	Application Number	09992413
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	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20070133073		2007-06-14	Shida et al.	
	2	20080007482		2008-01-10	Morioka	
	3	20080218776		2008-09-11	Takami et al.	
	4	20090290182		2009-11-26	Hashimoto et al.	
	5	20140082604		2014-03-20	Chang et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

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	First Named Inventor	William Ho Chang
	Art Unit	2453
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	Attorney Docket Number	FXT312

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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	Filing Date	2001-11-18
	First Named Inventor	William Ho Chang
	Art Unit	2453
	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-04-03
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	18667898
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	03-APR-2014
Filing Date:	18-NOV-2001
Time Stamp:	16:56:38
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20140403_IDS_FXT312.pdf	613903 566b946761bf27166627b9862db87ca1f881914	no	9

Warnings:	
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(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	8630000		2014-01-14	Chang et al.	

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	Examiner Name	Esther Benoit
	Attorney Docket Number	FXT312

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Examiner Signature		Date Considered	

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2014-03-13
Name/Print	Peter D. Sabido	Registration Number	50353

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	18468877
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	13-MAR-2014
Filing Date:	18-NOV-2001
Time Stamp:	21:46:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20140313_IDS_FXT312.pdf	612200 [illegible]	no	4

Warnings:	
Information:	
Total Files Size (in bytes):	612200

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Date: February 18, 2014

William Ho Chang

Serial No.	:	09/992,413
Filed	:	11/18/2001
For	:	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT
Examiner	:	Esther Benoit
Art Unit	:	2453
Confirmation No.:		5528

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

S i r :

RESPONSE TO OFFICE ACTION

This Response to Office Action and the accompanying Petition for Extension of Time Under 37 C.F.R. § 1.136(a) for two months and the associated fee under 37 C.F.R. § 1.17(a) are submitted in response to the Office action dated September 17, 2013. Please charge any additional fees required, or credit any overpayments, to our deposit account number 11-1540.

Amendments to the Specification	None
Amendments to the Claims	Begin on page 2
Amendments to the Drawings	None
Remarks	Begin on page 22

Listing of Claims:

This listing of claims reflects all claim amendments and replaces all prior versions, and listings, of claims in the application. Material to be inserted is in **bold and underline**, and material to be deleted is in ~~strikeout~~ or (if the deletion is of five or fewer consecutive characters or would be difficult to see) in double brackets [[ ]].

1-130. (Cancelled)

131. (Currently amended) A method of operating a digital content service for providing output content over a network that includes the Internet to an information apparatus for rendering at an output device, the output device is at least one of a display device and an audio output device, the digital content service including,

one or more servers for providing, to the information apparatus, device dependent output data corresponding to the output content, the device dependent output data being device specific and being acceptable for rendering at the output device, the one or more servers being distinct and separate from the information apparatus and the output device, and

one or more server applications at the one or more servers for generating the device dependent output data, the digital content service method comprising:

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection **by a user** at the information apparatus;

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content**, the pointer or the reference being selected by the user at**

the information apparatus from among the pointers or references provided to the information apparatus by the one or more servers;

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device;

retrieving, by the one or more server applications, the selected output content from the content server employing, at least in part, the pointer or reference to the selected output content included in the content object received from the information apparatus;

generating the device dependent output data at the one or more servers with the one or more server applications, the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on the selected output content, and

applying, by the one or more server applications, an encryption scheme on the selected output content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to the selected output content and having a relationship, at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network; and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering of the selected output content at the output device that is at least one of a display device and an audio output device.

132. (Previously presented) The method of claim 131 further comprising,

providing, by a client application over a graphical user interface at a display screen of the information apparatus, one or more pointers or references to the one or more output content for selection; and

receiving, by the client application, the selected output content over the graphical

user interface from among the one or more pointers or references to the one or more output content; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected output content.

133. (Previously presented) The method of claim 131 further comprising receiving, from the information apparatus, one or more job objects having one or more attributes corresponding to an output job, including one or more of an output quality, instructions, a preference, and a pointer or reference to another job object, individually or in any combination.

134. (Previously presented) The method of claim 131 in which the encryption scheme includes use of security keys for generating the device dependent output data.

135. (Previously presented) The method of claim 131 in which the output device includes a display controller unit for displaying at least part of the selected output content at the output device.

136. (Previously presented) The method of claim 131 further comprising:

receiving, by a client application at the information apparatus, at least part of the device dependent output data from the one or more servers; and

delivering, by the client application at the information apparatus, at least part of the device dependent output data received from the one or more servers to the output device for rendering of at least part of the output content.

137. (Previously presented) The method of claim 131 in which the information apparatus is a wireless information apparatus and includes one or more of a palmtop computer, a handheld computer, a laptop computer, an e-book, a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

138. (Previously presented) The method of claim 131 in which the payment or subscription information is provided automatically by the information apparatus.

139. (Previously presented) The method of claim 131 in which the payment information is provided through the information apparatus as entered by a user in response to a prompt to enter payment information.

140. (Previously presented) The method of claim 131 in which the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system.

141. (Previously presented) The method of claim 140 further comprising correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information.

142. (Previously presented) The method of claim 131 in which the output device is part of a television.

143. (Previously presented) The method of claim 131 further comprising establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination.

144. (Previously presented) The method of claim 131 in which the output device is an audio output device and the device dependent output data includes audio data.

145. (Previously presented) The method of claim 131 in which the output device is a display device or a projection device and the device dependent output data includes video data.

146. (Previously presented) The method of claim 131 in which the output device or the information apparatus decodes and decompresses the device dependent output data for rendering the output content.

147. (Previously presented) The method of claim 131 in which generating the device dependent output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications.

148. (Currently amended) An information apparatus for obtaining digital content acceptable for rendering at an output device, the output device being at least one of a display device and an audio output device, the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor;

an operating system;

a touch sensitive screen;

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display; and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus, the client application facilitated, at least partly, by the operating system, wherein the information apparatus is operable for:

installing at least part of the client application for expanding functionalities of the information apparatus;

sending, from the information apparatus to one or more servers over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers being distinct and separate from the information apparatus and the output device, and in dependence of successful authentication of the user, enabling the user access to a digital content service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or

more servers;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the client application and **from a user of the information apparatus** via the graphical user interface over the touch sensitive screen, a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

delivering, from the information apparatus, at least part of a content object and at least part of an output device object to the one or more servers over a network, the content object being associated with the selected digital content and including a pointer or reference to the selected digital content, and the output device object including information related to the output device;

receiving, at the information apparatus and from the one or more servers, device dependent output data corresponding to at least part of the selected digital content, the device dependent output data received from the one or more servers related, at least in part, to the information included in the output device object delivered from the information apparatus, and the device dependent output data received from the one or more servers further including an encryption scheme for ensuring security of the device dependent output data that is device specific for rendering at the output device;

decoding, at the information apparatus, the device dependent output data received from the one or more servers; and

rendering of the at least part of the selected digital content at the output device.

149. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

establishing a communication channel between the information apparatus and the output device; and

receiving, at the information apparatus, one or more attributes corresponding to the output device over the communication channel.

150. (Previously presented) The apparatus of claim 148 in which the network includes one or more of an Internet, a local area network, a cellular network, a wireless network, and a wide area network, individually or in any combination.

151. (Previously presented) The apparatus of claim 148 in which the output device further includes one or more of a display device, a projection device, a television device, and an audio output device, individually or in any combination.

152. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for discovering an output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering the output content.

153. (Previously presented) The apparatus of claim 148 further including one or more wireless communication units, and a communication between the information apparatus and the one or more servers over the network includes transmission over the one or more wireless communication units at the information apparatus.

154. (Previously presented) The apparatus of claim 148 wherein the information apparatus is further operable for:

providing, by the client application over a graphical user interface at the display screen of the information apparatus, one or more pointers or references to digital content for selection;

receiving, by the client application, a selected digital content over the graphical user interface at the display screen of the information apparatus from among the one or more pointers or references to digital content; and

generating, by the client application, a content object that includes a pointer or reference to the selected digital content received by the client application.

155. (Previously presented) The apparatus of claim 148 in which the one or more servers obtain the selected digital content from a content server based, at least in part,

on the pointer or reference to the selected digital content included in the content object.

156. (Previously presented) The apparatus of claim 148 in which the information apparatus is a wireless mobile information apparatus and the wireless mobile information apparatus includes one or more of a laptop computer, a smart phone, an Internet phone, an Internet pad, an information pad, an Internet appliance, and a digital camera, individually or in any combination.

157. (Previously presented) A method for rendering, at one or more output devices, device dependent output data, the device dependent output data corresponding to digital content and accessible, at least partly, by an information apparatus over a network that includes the Internet, the one or more output devices being at least one of a display device and an audio output device, the information apparatus including an operating system and one or more client applications facilitated by the operating system for providing one or more functionalities of the information apparatus, the method comprising:

establishing a connection between the information apparatus and the one or more output devices;

receiving, at the information apparatus over the connection from the one or more output devices, one or more attributes including information corresponding to the one or more output devices;

delivering, from the information apparatus, at least partially a content object and one or more output device objects to one or more servers over a network that includes the Internet, the one or more servers being distinct and separate from the information apparatus and the one or more output devices, the content object being associated with the digital content, and the one or more output device objects including information corresponding to the one or more output devices;

sending, from the information apparatus to the one or more servers over the network, security or authentication information associated with a user operating the information apparatus, and, in dependence of a successful authentication of the user, enabling the user access to a digital content service; and

receiving, at the information apparatus, from the one or more servers, device dependent output data corresponding to the digital content, the device dependent output data corresponding to the digital content further having a relationship, at least in part, to the information corresponding to the one or more output devices included in the one or more output device objects delivered from the information apparatus to the one or more servers over the network, and the device dependent output data corresponding to the digital content further including an encryption scheme that includes security keys for ensuring security of the digital content that is acceptable to the one or more output devices for rendering; and

transmitting, by the information apparatus, at least part of the device dependent output data corresponding to the digital content over the connection for rendering, at the one or more output devices, of at least part of the digital content that includes at least one of an audio content or a video content.

158. (Previously presented) The method of claim 157 in which the output device is part of a television.

159. (Previously presented) The method of claim 157 in which the information apparatus is a wireless mobile information apparatus that includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

160. (Previously presented) The method of claim 157 further comprising sending payment or subscription information from the information apparatus to the one or more servers over the network as payment for the digital content service.

161. (Previously presented) The method of claim 157 in which the one or more output devices is an audio output device and the digital content includes audio content and the method further comprising transmitting over the connection at least part of an audio content to the audio output device for rendering at least part of the digital content.

162. (Previously presented) The method of claim 157 in which the content object includes the digital content for storing at the one or more servers.

163. (Previously presented) The method of claim 157 in which the information apparatus and the output device is part of a television system with access to digital content service over the Internet.

164. (Previously presented) The method of claim 157 in which the one or more servers obtain digital content based on a pointer or reference to the digital content included in the content object.

165. (Previously presented) The method of claim 157 in which the information apparatus further comprising a touch sensitive screen for interacting with a user, and one or more wireless communication units for wireless communication.

166. (Previously presented) The method of claim 157 further comprising decoding and decompressing at least part of the device dependent output data corresponding to the digital content at the information apparatus.

167. (Currently amended) An output system for rendering digital content, the output system comprising:

an information apparatus for receiving device dependent output data from one or more servers over a network, the device dependent output data corresponding to at least part of the digital content that is device specific and is acceptable for rendering at the output system;

an output device that is at least one of a display device and an audio output device for rendering the device dependent output data;

a display screen;

an operating system;

a client application having a graphical user interface over the display screen for

interacting with a user of the output system, the client application facilitated at least partly by the operating system included in the output system;

wherein, the output system enables operations for:

establishing a communication channel between the output system and the one or more servers over the network;

receiving, by the client application and from the one or more servers over the network, one or more pointers or references to one or more digital content stored in a content server for selection by the user;

providing, at the information apparatus and via the graphical user interface over the display screen, the one or more pointers or references to the one or more digital content for selection by the user; and

receiving, at the information apparatus and **from a user of the information apparatus** via the graphical user interface over the display screen, a selected digital content from among the one or more pointers or references to the one or more digital content provided for selection; and

obtaining, by the client application, a content object that includes a pointer or reference to the selected digital content, and an output device object that includes information related to at least part of the output system;

delivering, from the output system, at least part of the content object and at least part of the output device object to the one or more servers, the one or more servers being distinct and separate devices from the output system, the content object including the pointer or reference to the selected digital content, for enabling the one or more servers configured to retrieve at least part of the selected digital content from the content server;

sending, from the output system to the one or more servers over the network, security or authentication information associated with the user of the output system for authentication of the user;

sending, from the output system to the one or more servers, payment or subscription information for accessing a digital content service provided by the one or more servers;

receiving, at the output system, the device dependent output data from the one

or more servers, the device dependent output data corresponding to at least part of the selected digital content and having a relationship, at least in part, to the information related to at least part of the output system included in the output device object delivered from the output system to the one or more servers over the network, and the device dependent output data further including an encryption scheme for ensuring security of the selected digital content that is device specific and is acceptable to the output system for rendering;

passing the device dependent output data from the information apparatus to the output device for rendering at least part of the selected digital content;

decoding at least part of the device dependent output data at the output system for rendering at least part of the selected digital content by the at least one of a display device and an audio output device included in the output system; and

rendering by the at least one of a display device and an audio output device included in the output system, at least part of the selected digital content that includes video or audio content.

168. (Previously presented) The system of claim 167 in which obtaining of the output device object includes obtaining information from one or more of (1) user input, (2) a communication with an output device, (3) a parameter stored in the output system, and (4) a default parameter or preference associated with the output system, individually or in any combination.

169. (Previously presented) The system of claim 167 wherein the output system further enables operations for discovering an output device as one of one or more output devices that are discovered by the information apparatus as being available for rendering the digital content.

170. (Previously presented) The system of claim 167 in which the output device and the information apparatus are wire connected.

171. (Previously presented) The system of claim 167 wherein the output system

further enables operations for conforming, at the information apparatus, the device dependent output data into a form, format or language more suitable for rendering at an output device, the conforming including a decoding operation and an encoding operation.

172. (Previously presented) A system for transmitting to an information apparatus over a network that includes the Internet, at least part of device dependent output data corresponding to digital content acceptable for rendering at an output device, the output device associated with the information apparatus is at least one of a display device and an audio output device, the system comprising:

one or more servers that are distinct and separate from the information apparatus and the output device, the one or more servers being operable to receive a content object and at least part of an output device object, the content object being associated with the digital content and the output device object having information corresponding to the output device, the one or more servers being further operable to receive, from the information apparatus, security or authentication information associated with a user operating the information apparatus for authentication of the user, and the one or more servers being further operable to receive, from the information apparatus, payment or subscription information to enable transmitting at least part of the device dependent output data corresponding to the digital content to the information apparatus;

one or more server applications on the one or more servers for generating the device dependent output data, the device dependent output data having a relationship, at least in part, to the information related to the output device, and the generating of the device dependent output data includes (1) applying a compression operation on the digital content, and (2) applying an encryption scheme with one or more security keys for ensuring security of the device dependent output data that is device specific for rendering; and

a client application for interacting with a user at the information apparatus via a graphical user interface over a display screen associated with the information apparatus, the client application facilitated at least partly by an operating system

operating at the information apparatus; and

wherein, the client application at the information apparatus communicates with the one or more servers over a network that includes the Internet for receiving at least part of the device dependent output data corresponding to the digital content, and the client application delivers the received device dependent output data to the output device for rendering at least part of the digital content.

173. (Previously presented) The system of claim 172 wherein the client application at the information apparatus is further operable for decoding the at least part of the device dependent output data received from the one or more servers for rendering at the output device at least part of the digital content.

174. (Previously presented) The system of claim 172 in which the output device includes an audio output device and the device dependent output data includes audio data.

175. (Previously presented) The system of claim 172 in which the output device includes a display device or a projection device and the device dependent output data includes video data, and the information apparatus and the output device being part of a television system.

176. (Previously presented) The system of claim 172 in which the content object received from the information apparatus includes a pointer or reference to a selected digital content, and the one or more server applications further retrieve the digital content from a content server for transmitting at least part of the selected digital content to the information apparatus.

177. (Previously presented) In a computer memory or storage device, containing server applications executable by a processor at a server system for generating device dependent output data acceptable for rendering at one or more output devices, the one or more output devices being display devices and/or audio output devices, the device

dependent output data for transmitting, at least partly, to an information apparatus, the server system including one or more servers that are accessible by the information apparatus over a network that includes the Internet, the server system being distinct and separate from the information apparatus and the one or more output devices, the server applications in the computer memory or storage device, when executed by the processor at the server system, enables the server system to:

receive, by the server system from the information apparatus, one or more content objects, the one or more content objects being associated with the digital content, including a pointer or reference to the digital content;

receive, by the server system from the information apparatus, one or more output device objects, the one or more output device objects having information related to the one or more output devices;

receive, by the server system and from the information apparatus, security or authentication information associated with a user operating the information apparatus for authentication of the user;

receive, by the server system and from the information apparatus, payment or subscription information for accessing a digital content service provided by the server system;

retrieve, by the server system, the digital content from a content server employing at least in part the pointer or reference to the digital content included in the one or more content objects received from the information apparatus;

generate, by the server system, the device dependent output data associated with the digital content for rendering at the one or more output devices, the device dependent output data associated with the digital content having a relationship, at least in part, to the information related to the one or more output devices included in the one or more output device objects received from the information apparatus;

apply, by the server system, a compression operation on the digital content for transmitting the device dependent output data associated with the digital content;

apply, by the server system, an encryption scheme on the digital content for ensuring security of the digital content that is device specific for rendering; and

transmit, by the server system, at least part of the device dependent output data

associated with the digital content to the information apparatus over the network that includes the Internet subsequent to receiving the security or authentication information, the payment or subscription information, the one or more content objects, and the one or more output device objects from the information apparatus.

178. (Previously presented) The memory or storage device of claim 177 in which the encryption scheme includes security keys for ensuring security of the digital content.

179. (Previously presented) The memory or storage device of claim 177 in which the device dependent output data includes audio data and/or video data.

180. (Currently amended) In a computer memory, containing client software executable by a processor at an information apparatus for obtaining device dependent output data acceptable for rendering at an output device associated with the information apparatus, the output device is at least one of a display device and an audio output device, the information apparatus including a graphical user interface over a display screen of the information apparatus for interacting with a user, the information apparatus further including an operating system for facilitating operations of the client software at the information apparatus, the device dependent output data corresponding to digital content for rendering, the computer memory containing the client software comprising:

software executable at the information apparatus for establishing a communication channel between the information apparatus and one or more servers over a network;

software executable at the information apparatus for providing over the graphical user interface at the display screen of the information apparatus, one or more pointers or references to the digital content for selection **by a user of the information apparatus**; and

software executable at the information apparatus for receiving a selected digital content **from the user of the information apparatus** via the graphical user interface, from among the one or more pointers or references to the digital content; and

software executable at the information apparatus for obtaining a content object that includes a pointer or reference to the selected digital content;

software executable at the information apparatus for delivering, from the information apparatus, at least part of the content object and at least part of an output device object to the one or more servers that is distinct and separate from the information apparatus and the output device, the document content object being associated with the selected digital content, and the output device object including information related to the output device, the content object and the output device object being required at the one or more servers for generating device dependent output data corresponding to the selected digital content and acceptable for rendering at the output device;

software executable at the information apparatus for sending, from the information apparatus to the one or more servers over a network, security or authentication information associated with the user operating the information apparatus for authentication of the user;

software executable at the information apparatus for receiving, at the information apparatus, the device dependent output data for rendering at the output device, the device dependent output data corresponding to the selected digital content and having a relationship, at least in part, to the information related to the output device included in the output device object delivered from the information apparatus to the one or more servers over the network, and the device dependent output data further including an encryption scheme that includes security keys for ensuring security of the selected digital content; and

software executable at the information apparatus for decoding at least part of the device dependent output data received from the one or more servers;

client software executable at the information apparatus for decompressing at least part of the device dependent output data received from the one or more servers;

software executable at the information apparatus for delivering at least part of the decoded and decompressed device dependent output data to the output device for rendering of the selected digital content.

181. (Previously presented) The computer memory of claim 180 further comprising software executable at the information apparatus for establishing a communication channel between the information apparatus and the output device.

182. (Previously presented) The computer memory of claim 180 further comprising software executable at the information apparatus for encoding at least part of the decoded device dependent output data into a format or language acceptable for delivering to the output device.

183. (Previously presented) The computer memory of claim 180 in which the information apparatus is a wireless information apparatus and includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a touch sensitive screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

184. (Previously presented) The computer memory of claim 180 in which the output device is an audio output device and the device dependent output data includes audio data, and wherein a connection between the information apparatus and the output device includes a wired connection.

185. (Previously presented) The computer memory of claim 180 in which the information apparatus includes a touch sensitive screen, and the device dependent output data includes one or more of image data, graphics data, video data, and text data, individually or in any combination, for rendering over the touch sensitive screen.

186. (Previously presented) The computer memory of claim 180 in which the output device is part of a television.

187. (Previously presented) The computer memory of claim 180 further comprising software executable at the information apparatus for sending, from the information apparatus to the one or more servers over the network that includes the

Internet, payment or subscription information for accessing a digital content service provided by the one or more servers.

188 (Cancelled).

188 [[189]]. (Currently amended) The apparatus of claim 148 in which the output device is associated with the information apparatus and is connected to the information apparatus by a wire connection.

189 [[190]]. (Currently amended) The memory or storage device of claim 177 in which the one or more output devices includes a television.

190 [[191]]. (Currently amended) The memory or storage device of claim 177 in which the one or more content objects received from the information apparatus at the server system include the digital content and the server applications in the computer memory or storage device when executed by the processor at the server system enables the server system to **store** ~~stored~~ the received digital content at a server.

191 [[192]]. (Currently amended) The memory or storage device of claim 177 in which the one or more output device objects include identification related to the one or more output devices, the identification including one or more of an output device brand, a model, a name, a path, a registration, and an IP address, individually or in any combination.

192 [[193]]. (Currently amended) The system of claim 172 in which the content object includes the digital content for storing at the content server.

193 [[194]]. (Currently amended) The system of claim 172 in which the information apparatus is a mobile wireless information apparatus having a touch sensitive screen, an operating system, and a graphical user interface over the touch sensitive screen.

194 [[195]]. (Currently amended) The system of claim 167 in which the delivering the device dependent output data to the output device includes delivering the device dependent output data to an output controller associated with the output device.

195 [[196]]. (Currently amended) The system of claim 167 in which the information apparatus is connected to the output device over a wireless connection.

196 [[197]]. (Currently amended) The system of claim 167 in which the output system is a television system.

197 [[198]]. (Currently amended) The system of claim 167 in which the communication channel over the network between the output system and the one or more servers includes one or more of an a local area network, a cellular network, a wide area network, and a wireless network, individually or in any combination.

198 [[199]]. (Currently amended) The system of claim 167 in which the information apparatus is a wireless information apparatus, and the wireless information apparatus includes one or more of a palmtop computer, a handheld computer, a laptop computer, a smart phone, a screen phone, an Internet pad, an Internet appliance, and a digital camera, individually or in any combination.

199 [[200]]. (Currently amended) The method of claim 157 in which the connection includes a wireless connection.

REMARKS

This Response to Office Action and the accompanying Petition for Extension of Time under 37 C.F.R. § 1.136(a) for two months are being filed in response to the Office action dated September 17, 2013. Claims 131-199 are pending in the application. Claims 1-130 have been cancelled. Claims 131, 148, 157, 167, 172, 177, and 180 are in independent form. By way of the present Response, at least some of the independent claims has been amended to further clarify and emphasize the distinctions over the cited references.

In view of the above amendments, and the remarks below, Applicant respectfully requests reconsideration of the application and allowance of the pending claims.

1. Claim Objections

The numbering of the claims was objected to under 37 C.F.R. § 1.126, which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are cancelled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not). Specifically, claim 188 is asserted to be missing and corrections in numbering is required.

Claims 131-187 and 189-200 were added as new claims without a claim 188 in the Amendment filed on January 23, 2009 (see attached Amendment). Applicant has renumbered claims 189-200 as claims 188-199 to address the objection. Thus, Applicant respectfully requests withdrawal of the objection of the numbering of the claims under 37 C.F.R. § 1.126.

2. Double Patenting

Claims 131-200 were provisionally rejected on the ground of nonstatutory obviousness double patenting as being unpatentable over claims 66-93 of copending U.S. Patent Application Serial No. 12/204,689.

Given that both applications are pending and Applicant may amend one or both applications, Applicant requests that the rejection be held in abeyance until the

copending patent application issues into a patent or the double patenting rejection is the remaining rejection in the present application.

3. Standards for 35 U.S.C. § 102 and § 103(a) Rejections

MPEP § 2131 states:

> "[A] claim is anticipated only if **each and every element** as set forth in the claim is found..." *Verdegaal Bros. v. Union Oil Co. of California,* 814 F.3d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). "The identical invention must be shown in **as complete detail** as is contained in the...claim." *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). The elements must be **arranged as required in the claim**... ***In re Bond,* 910 F.2d 831, 15 USPQ2d 1566 (Fed. Cir. 1990)** (emphasis added).

MPEP § 2143.03 states:

> "All words in a claim must be considered in judging the patentability of that claim against the prior art." *In re Wilson*, 424 F.2d 1382, 1385 165 USPQ 494, 496 (CCPA 1970).

Federal Circuit and CCPA case law state:

> The range of [prior art] sources available, however, does not diminish the requirement for actual evidence. That is, the showing must be clear and particular. *In re Dembiczak,* 175 F.3d 994, 999 (Fed. Cir. 1999) (emphasis added).
>
> It is impermissible within the framework of section 103 to pick and choose from any one reference only so much of it as will support a given position, to the exclusion of other parts necessary to the full appreciation of what such reference fairly suggests to one of ordinary skill in the art. *In re Wesslau*, 353 F.2d 238 (CCPA 1965) (emphasis added).
>
> [R]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006) (emphasis added).
>
> [W]hen no prior art reference or references of record convey or suggest that knowledge, is to fall victim to the insidious effect of a hindsight syndrome wherein that which only the inventor taught is used against its

teacher. *W.L. Gore & Assocs., Inc. v. Garlock, Inc.*, 721 F.2d 1540, 1553 (Fed. Cir. 1983).

The U.S. Supreme Court states:

> [A] patent composed of several elements is not proved obvious merely by demonstrating that each of its elements was, independently, known in the prior art. *KSR Int'l v. Teleflex, Inc.*, 550 U.S. 398, 418 (2007).

MPEP § 2121.01 states:

> The disclosure in an assertedly anticipating reference must provide an enabling disclosure of the desired subject matter; mere naming or description of the subject matter is insufficient, if it cannot be produced without undue experimentation. *Elan Pharm., Inc. v. Mayo Found. For Med. Educ. & Research*, 346 F.3d 1051, 1054, 68 USPQ2d 1373, 1376 (Fed. Cir. 2003) (emphasis added).

MPEP § 2141.02 states:

> In determining the differences between the prior art and the claims, the question under 35 U.S.C. § 103 is not whether the differences themselves would have been obvious, but whether the claimed invention as a whole would have been obvious. *Stratoflex, Inc. v. Aeroquip Corp.*, 713 F.2d 1530, 218 USPQ 871 (Fed. Cir. 1983); *Schenck v. Nortron Corp.*, 713 F.2d 782, 218 USPQ 698 (Fed. Cir. 1983) (emphasis added).

MPEP § 2141.02(VI) states:

> [A] prior art reference must be considered in its entirety, i.e., as a whole, including portions that would lead away from the claimed invention. *W.L. Gore & Associates, Inc. v. Garlock, Inc.*, 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), *cert. denied*, 469 U.S. 851 (1984) (emphasis added).

MPEP § 2143.01(V) states:

> If proposed modification would render the prior art invention being modified unsatisfactory for its intended purpose, then there is **no suggestion or motivation** to make the proposed modification. *In re Gordon*, 733 F.2d 900, 221 USPQ 1125 (Fed. Cir. 1984) (emphasis added).

MPEP § 2143.01(VI) states:

> If the proposed modification or combination of the prior art would change the principle of operation of the prior art invention being modified, then the

teachings of the references are **not sufficient** to render the claims *prima facie* obvious. *In re Ratti*, 270 F.2d 810 (CCPA 1959) (emphasis added).

MPEP § 2143(B) states:

> To reject a claim based on this rationale, Office personnel must resolve the *Graham* factual inquiries. Then, Office personnel must articulate the following:
>
> (1) a finding that the prior art contained a device (method, product, etc.) which differed from the claimed device by the substitution of some components (step, element, etc.) with other components;
>
> (2) a finding that the substituted components and their functions were known in the art;
>
> (3) a finding that one of ordinary skill in the art could have substituted one known element for another, and the results of the substitution would have been predictable; and
>
> (4) whatever additional findings based on the *Graham* factual inquiries may be necessary, in view of the facts of the case under consideration, to explain a conclusion of obviousness.
>
> The rationale to support a conclusion that the claim would have been obvious is that the substitution of one known element for another yields predictable results to one of ordinary skill in the art. If any of these findings cannot be made, then this rationale cannot be used to support a conclusion that the claim would have been obvious to one of ordinary skill in the art (emphasis added).

4. Office Action Is Not In Compliance With 35 U.S.C. §§ 102, 103(a) Standards

As a preliminary matter, Applicant notes that the Office action has:

(a) Cited multiple large paragraphs in the references as having taught the elements recited in the claims without providing any reasoning as to why those large paragraphs were cited.

(b) Those cited multiple large paragraphs describe a completely different subject matter from what is recited in the claims.

(c) In other instances, when some reasoning was provided for citing multiple large paragraphs, only token **one or two words** were provided in the Office action.

(d) Those token words were neither clear nor particular.

(e) Those token words can be found only in Applicant's disclosure and not in the cited multiple large paragraphs.

(f) Those cited multiple large paragraphs do not describe prior art relative to the present application, as further discussed below.

Federal Circuit case law states:

> The range of [prior art] sources available, however, does not diminish the requirement for actual evidence. That is, the showing must be clear and particular. *In re Dembiczak,* 175 F.3d 994, 999 (Fed. Cir. 1999).
>
> [R]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness. *In re Kahn*, 441 F.3d 977, 988 (Fed. Cir. 2006) (emphasis added).
>
> Administrative reasoning behind particular actions must not be arbitrary or capricious, and that such reasoning must be supported by substantial evidence. *In re Zurko*, 142 F.3d 1447 (Fed. Cir. 1998) (emphasis added).

Because the Office action did not provide any reasoning why multiple paragraphs were cited, Applicant was unable to specifically address the rejections in the Office action.

Applicant respectfully requests that in future Office actions, the Office action clearly and particularly provides detailed reasoning as to why certain paragraphs are being cited, particularly when those cited paragraphs describe different subject matter.

> MPEP § 2143 states:
>
> "The key to supporting any rejection under 35 U.S.C. 103 is the **clear articulation** of the reason(s) why the claimed invention would have been obvious. The Supreme Court in *KSR* noted that the analysis supporting a rejection under 35 U.S.C. 103 should be **made explicit**" (emphasis added).

Additionally, Federal Circuit case law states:

> [W]hen no prior art reference or references of record convey or suggest that knowledge, is to fall victim to the insidious effect of a hindsight syndrome wherein that which only the inventor taught is used against its

teacher. W.L. Gore & Assocs., Inc. v. Garlock, Inc., 721 F.2d 1540, 1553 (Fed. Cir. 1983).

Applicant respectfully requests that future Office actions provide reasoning (and not just one or two words) and that the reasoning should be found from the teachings of the cited reference and not by gleaning or copying token words from the disclosure of the Applicant.

Applicant further respectfully requests that in future Office actions, the Office action verifies the priority dates of the cited reference to determine if the reference is prior art to the application.

5. Claim Rejections – 35 U.S.C. § 103

Claims 131-138, 142-147, 157-159, 161-188, and 190-200 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Application Publication No. 2001/0034222 to Roustaei et al. (Roustaei) in view of U.S. Patent Application Publication No. 2002/0059489 to Davis et al. (Davis). Additionally, claims 139-141 and 160 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Roustaei in view of Davis, and further in view of U.S. Patent Application No. 2009/0094457 to Lapstun et al. (Lapstun). Moreover, claims 148-156 and 189 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Roustaei in view of Davis, and further in view of U.S. Patent Application No. 2001/0012281 to Hall et al. (Hall).

The claims of record, without any amendment, are sufficient to distinguish over all cited references as further discussed below. Thus, Applicant is not conceding that the subject matter encompassed by the claims prior to this Response were unpatentable over the art cited by the Examiner. In other words, Applicant is not surrendering the above subject matter. Applicant respectfully reserves the right to pursue claims capturing the subject matter encompassed by claims 131-200 prior to this Response and additional claims in this application and/or in one or more continuing applications.

Nevertheless, in an effort to further facilitate examination and to advance prosecution, Applicant herein amends the claims to further clarify and emphasize the distinctions over the cited references. The amended claims have numerous distinctions

over the cited references. In an effort to facilitate review for brevity, Applicant has included only included some examples of those distinctions as described below for brevity. Other examples of distinctions should be clear for one of ordinary skill in the art after a review of the cited references.

5.1 The majority of the cited paragraphs of Roustaei is not prior art

As a preliminary matter, Applicant asserts that many of the paragraphs from Roustaei relied on in the Office action is NOT prior art to the present application.

The present application claims the benefit of U.S. Provisional Application No. 60/252,682 filed November 20, 2000. Accordingly, the earliest effective filing date for the present application is November 20, 2000.

In contrast, the Roustaei application (U.S. Patent Application Serial No. 09/817,838) was filed on March 26, 2001 and claims the benefit of U.S. Provisional Patent Application Serial No. 60/192,281, which was filed on March 27, 2000. However, a substantial amount of the subject matter described in the Roustaei application is not found in U.S. Provisional Patent Application Serial No. 60/192,281. For example, the Figures 6-13 and the description for those figures in the Roustaei application are not found in U.S. Provisional Patent Application Serial No. 60/192,281.

Accordingly, Applicant asserts that the effective date for at least the above example paragraphs and figures of the Roustaei application (U.S. Patent Application Serial No. 09/817,838) is March 26, 2001. Therefore, most of the cited paragraphs from Roustaei is not prior art to the present application. Applicants asserts that citing Roustaei in the Office action is not in compliance with 35 U.S.C. § 102 and 35 U.S.C. § 103 standards.

5.2 The majority of the cited paragraphs of Davis is not prior art

Applicant asserts that many of the paragraphs from Davis relied on in the Office action is NOT prior art to the present application.

As discussed above, the present application claims the benefit of U.S. Provisional Application Serial No. 60/252,682 filed November 20, 2000. Accordingly, the

earliest effective filing date for the present application is November 20, 2000.

In contrast, the Davis application (U.S. Patent Application Serial No. 10/010,303) was filed on November 13, 2001 and claims the benefit of U.S. Provisional Patent Application Serial No. 60/248,467, which was filed on November 13, 2000. However, a substantial amount of the subject matter described in the Davis application is not found in U.S. Provisional Patent Application Serial No. 60/248,467. For example, all of the Figures in the Davis application (Figures 1-5) and the descriptions for those figures in the Davis are not found in U.S. Provisional Patent Application Serial No. 60/248,467. Additionally, "authentication" and "group" described in Paragraph 0038 of the Davis application, which was relied on in the Office action, is not found anywhere in the provisional patent application.

Accordingly, Applicant asserts that the effective date for at least the above example paragraphs and figures of the Davis application (U.S. Patent Application Serial No. 10/010,303) is November 13, 2001. Therefore, most of the cited paragraphs of Davis is not prior art to the present application. Applicants asserts that citing Davis in the Office action is not in compliance with 35 U.S.C. § 102 and 35 U.S.C. § 103 standards.

Even assuming, without admitting, that the cited paragraphs is prior art, Davis still does not teach nor describe the subject matter described in the claims whether alone or in combination for at least the reasons discussed below.

5.3 Providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection at the information apparatus

Claim 131 recites:

> [P]roviding, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection by a user at the information apparatus ...

Page 6 of the Office action explicitly states that Roustaei does not teach the above subject matter. Instead, page 8 of the Office action asserts that Davis teaches the

above subject matter.

However, Davis does not teach "providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection by a user at the information apparatus." Instead, Davis teaches sending documents for printing from local computer 20 to relay server 28 and for remote computer 24 to periodically poll the relay server for any sent documents for automatic printing at remote printer 26.

> If the user of local computer 20 wishes to print such data on remote printer 26, he or she selects a "Print" command in the user interface of application 42 ... application 42 sends the document to file manager 44 with specific destination printer and print option information. File manager 44 connects to relay server 28 and sends the printable data to one of the relay processes 55. The relay process 55 stores the data in queue 56 for later use (paragraph 0025) (emphasis added).
>
> The file manager 64 in remote computer 24 periodically polls relay server 28 for waiting print jobs by connecting to one of relay processes 55 and sending a command to check for such jobs. If any data is queued for remote printer 26, file manager 64 retrieves the data and stores it in print queue 66. When remote printer 26 is available, file manager 64 opens an instance of application 62 with a request to print the data that had been stored in queue 66. Application 62 automatically opens, loads the data, and prints it on remote printer 26 (paragraph 0026) (emphasis added).

There is no disclosure or suggestion in Davis of sending a list of print jobs from relay server 28 to remote computer 24 for selection by a user of remote computer. Instead, Davis explicitly teaches that remote computer 24 polls relay server 28 for print jobs for printing at remote printer 26 and automatically prints print jobs from that server at remote printer 26.

> MPEP § 2143.01(V) states:
>
> If proposed modification would render the prior art invention being modified unsatisfactory for its intended purpose, then there is **no suggestion or motivation** to make the proposed modification. *In re Gordon*, 733 F.2d 900, 221 USPQ 1125 (Fed. Cir. 1984) (emphasis added).

The intended purpose of the Davis' remote printing system is explicitly taught by Davis to provide for remote printing of documents that is approximately as convenient as local printing as emphasized by Davis below.

> The present invention relates to the remote production of hard copy from electronic documents. More specifically, the present invention relates to a system and method for remotely printing documents that is approximately as convenient as local printing (paragraph 0002) (emphasis added).

Modifying the Davis remote printing system from automatic printing of print jobs to instead requiring user selection at remote computer 24 of a print job stored in relay server 28 before printing at remote printer 26 would render the Davis remote printing system inconvenient when compared to local printing and thus unsatisfactory for its intended purpose under MPEP § 2143.01(V) of providing "remote reproduction of hard copy that is...as convenient as local printing."

> MPEP § 2143.01(VI) states:
>
> If the proposed modification or combination of the prior art would change the principle of operation of the prior art invention being modified, then the teachings of the references are **not sufficient** to render the claims *prima facie* obvious. *In re Ratti*, 270 F.2d 810 (CCPA 1959) (emphasis added).

The principle of operation of the Davis remote printing system is to poll relay server 28 for print jobs for printing at remote printer 26 and to automatically print print jobs from that server at remote printer 26.

> The file manager 64 in remote computer 24 periodically polls relay server 28 for waiting print jobs by connecting to one of relay processes 55 and sending a command to check for such jobs. If any data is queued for remote printer 26, file manager 64 retrieves the data and stores it in print queue 66. When remote printer 26 is available, file manager 64 opens an instance of application 62 with a request to print the data that had been stored in queue 66. Application 62 automatically opens, loads the data, and prints it on remote printer 26 (paragraph 0026) (emphasis added).

Modifying the Davis remote printing system from automatic printing of print jobs to instead requiring user selection at remote computer 24 of a print job stored in relay

before printing at remote printer 26 would change the principle of operation of the Davis remote printing system under MPEP § 2143.01(VI).

Lapstun and Hall do not make up for the shortcomings of Davis and Roustaei. Specifically, Lapstun and Hall do not teach "providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection by a user at the information apparatus."

5.4 Receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content, the pointer or the reference being selected by the user at the information apparatus from among the pointers or references provided to the information apparatus by the one or more servers

Claim 131 recites:

> [R]eceiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content, the pointer or the reference being selected by the user at the information apparatus from among the pointers or references provided to the information apparatus by the one or more servers ...

Page 7 of the Office action explicitly states that Roustaei does not teach the above subject matter. Instead, page 8 of the Office action asserts that Davis teaches the above subject matter.

Because Davis does not disclose "providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection by a user at the information apparatus," it follows that Davis also does not disclose "receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content, the pointer or the reference being selected by the user at the information apparatus from among the pointers or references provided to the information apparatus by the one or more servers."

Lapstun and Hall do not make up for the shortcomings of Davis and Roustaei. Specifically, Lapstun and Hall do not teach "receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content, the pointer or the reference being selected by the user at the information apparatus from among the pointers or references provided to the information apparatus by the one or more servers."

6. Roustaei and Davis are not combinable

Contrary to the Office action, Roustaei and Davis cannot be permissibly combined for at least the five reasons discussed below.

First, Roustaei teaches that its field of endeavor is "remote printing documents," while Davis teaches that its field of endeavor is "devices for image capture." The field of endeavor of the two cited references are explicitly not analogous. Specifically, "printing documents" and "image capture" are functionally opposite and structurally distinct.

MPEP § 2141 states:

> In order for a reference to be proper for use in an obviousness rejection under 35 U.S.C. 103, the reference must be analogous art to the claimed invention. *In re Bigio*, 381 F.3d 1320, 1325 (Fed. Cir. 2004) (emphasis added).
>
> While Patent Office classification of references and the cross-references in the official search notes of the class definitions are some evidence of "nonanalogy" or "analogy" respectively, the court has found "the similarities and **differences in structure and function** of the inventions to carry far greater weight." *In re Ellis*, 476 F.2d 1370, 1372, 177 USPQ 526, 527 (CCPA 1973) (emphasis added).

Roustaei discloses that its devices are "for capturing images and more particularly for [] an image capture and processing accessory".

> The invention relates generally to devices for capturing images and more particularly for to an image capture and processing accessory for use with limited bandwidth networks such as wireless networks. (paragraph 0002; Field of Invention).

In contrast, Davis discloses that its system is for "remote production of hard copy ... More specifically ... method for remotely printing documents."

> The present invention relates to the remote production of hard copy from electronic documents. More specifically, the present invention relates to a system and method for remotely printing documents that is approximately as convenient as local printing (paragraph 0002).

As shown, the two references are functionally distinct and opposite. Roustaei teaches that his principle of operation is for capturing images, but Davis explicitly teaches that his principle of operation is for production of hard copy.

> MPEP § 2143.01 (VI) states:
>
> If the proposed modification or combination of the prior art would change the principle of operation of the prior art invention being modified, then the teachings of the references are **not sufficient** to render the claims *prima facie* obvious. *In re Ratti*, 270 F.2d 810 (CCPA 1959) (emphasis added).

One of ordinary skill in the art following Roustaei would not combine the teachings of Davis to printing documents because the combination would change the principle of operation of Roustaei from capturing images to printing documents. Therefore, the teachings of the references are **not sufficient** to render the claims *prima facie* obvious under MPEP § 2143.01 (VI).

Second, neither reference teaches one of ordinary skill in the art an enabling disclosure of the desired subject matter, such as converting a system from capturing images into printing documents.

> MPEP § 2121.01 states:
>
> The disclosure in an assertedly anticipating reference must provide an enabling disclosure of the desired subject matter; mere naming or description of the subject matter is insufficient, if it cannot be produced without undue experimentation. *Elan Pharm., Inc. v. Mayo Found. For Med. Educ. & Research*, 346 F.3d 1051, 1054, 68 USPQ2d 1373, 1376 (Fed. Cir. 2003) (emphasis added).

In the present case, neither reference Roustaei nor Davis teaches one of ordinary skill an enabling disclosure of the desired subject. Mere naming or description of the subject matter is insufficient, if it cannot be produced without undue experimentation. The experimentation is undue because one of ordinary skill in

the art is not provided enough information in either Roustaei or Davis to make the asserted combination.

Third, the two cited references teach a structurally different device that is not combinable at the time of invention to one of ordinary skill in the art.

Roustaei teaches a cell phone as shown in Figure 4 below.

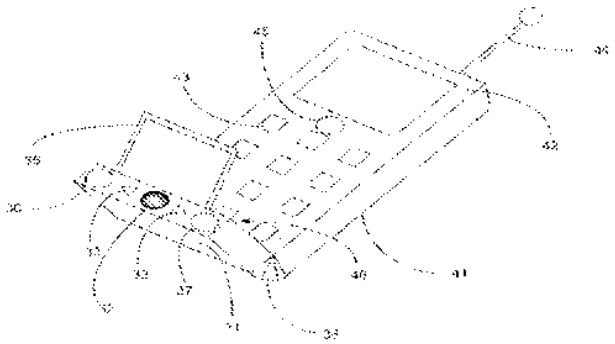


FIG. 4

On the other hand, Davis teaches a local computer as shown in Figure 1 below.

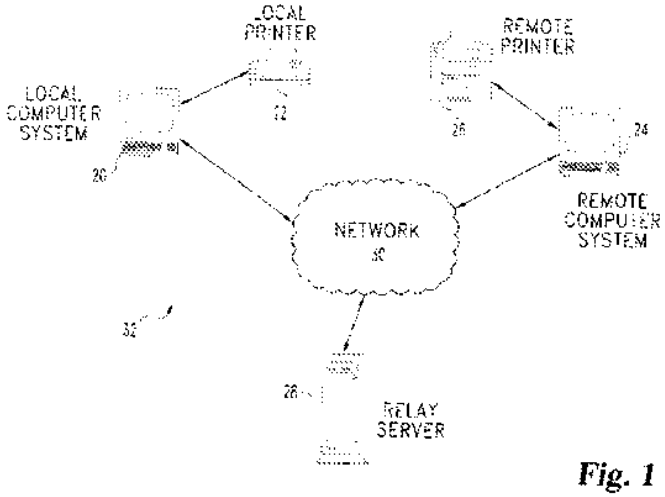


Fig. 1

As shown explicitly above in Figure 4 of Roustaei and Figure 1 of Davis, the two devices are structurally different based on the teachings in the respective figures. Therefore, at

the time of invention, one of ordinary skill in the art would not combine the two structurally different devices.

Fourth, Davis explicitly teaches away from Roustaei's cell phone by emphasizing that the local computer must include memory. In contrast, Roustaei explicitly teaches away from Davis' local computer by emphasizing that its cellular phones do not normally have storage capabilities.

Roustaei discloses imager accessory 31 for capturing images and for transmitting those images via cellular phone 41. Roustaei explains that the "cellular phone normally does not include mass storage capabilities" so the imager accessory (not the cell phone 41) includes a data storage device 67.

> The imager accessory 31 captures either still or motion images and processes the images so that they may be transmitted over a limited bandwidth network through the cellular phone 41 ... (paragraph 0039) (emphasis added).
>
> Cellular phones do not normally have mass storage capabilities such as disk drives or flash cards, and therefore the inclusion of a data storage device 67 such as a removable flash card to the imager 61 for storing the data created by the imager 61 would be very useful ... (paragraph 0041) (emphasis added).

On the other hand, Davis discloses a remote printing system using personal desktop computers, specifically both local computer 20 and remote computer 24 shown in Fig. 1. Those computers include memory 43 and memory 63, respectively, as shown in Fig. 2 and paragraph 0020 below.

> Local computer system 20 comprises processor 41, memory 43, monitor 45, network interface 47 (paragraph 20) (emphasis added).

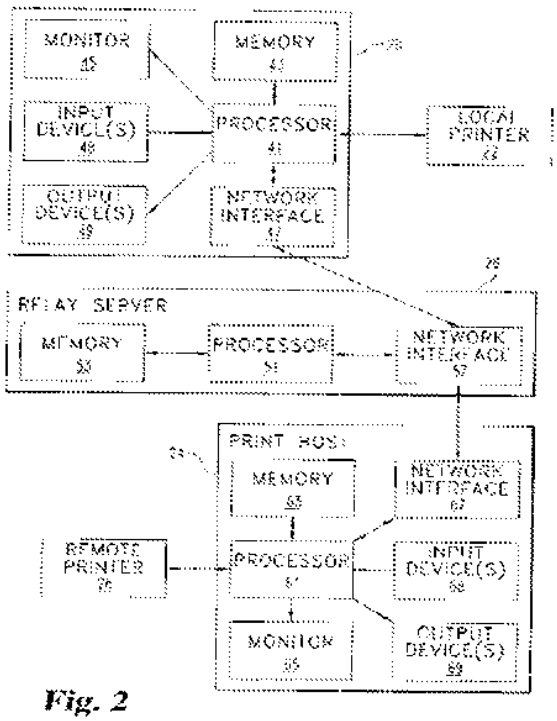


Fig. 2

Memory 43 and 63 includes all types of memory. For example, the different types of memory 43 are provided in the Davis excerpt below.

> Memory 43 can include one or more types of solid-state electronic memory, magnetic memory, or optical memory, just to name a few. By way of non-limiting example, memory 43 can include solid-state electronic Random Access Memory (RAM), Sequentially Accessible Memory (SAM) (such as the First-In, First-Out (FIFO) variety or the Last-In First-Out (LIFO) variety), Programmable Read Only Memory (PROM), Electrically Programmable Read Only Memory (EPROM), or Electrically Erasable Programmable Read Only Memory (EEPROM); an optical disc memory (such as a DVD or CD ROM); a magnetically encoded hard disk, floppy disk, tape, or cartridge media; or a combination of any of these memory types. Also, memory 43 can be volatile, nonvolatile, or a hybrid combination of volatile and nonvolatile varieties (paragraph 0022).

MPEP § 2143(B) states:

> To reject a claim based on this rationale, Office personnel must resolve the *Graham* factual inquiries. Then, Office personnel must articulate the following:

(4) a finding that the prior art contained a device (method, product, etc.) which differed from the claimed device by the substitution of some components (step, element, etc.) with other components;

(5) a finding that the substituted components and their functions were known in the art;

(6) a finding that one of ordinary skill in the art could have substituted one known element for another, and the results of the substitution would have been predictable; and

(4) whatever additional findings based on the *Graham* factual inquiries may be necessary, in view of the facts of the case under consideration, to explain a conclusion of obviousness.

The rationale to support a conclusion that the claim would have been obvious is that the substitution of one known element for another yields predictable results to one of ordinary skill in the art. If any of these findings cannot be made, then this rationale cannot be used to support a conclusion that the claim would have been obvious to one of ordinary skill in the art (emphasis added).

In the present application, modifying the Roustaei imaging system to include components of the Davis remote printing system would lead to unpredictable results under MPEP § 2143(B) because both systems have different components with opposite functionality as discussed above. For example, at the time of invention, the cellular phone of the Roustaei imaging system typically does not include memory for storing digital content that includes video data. In contrast, the local computers of the Davis remote printing system are explicitly taught by Davis to include memory for storing digital content.

Fifth, Roustaei teaches away from the asserted combination with Davis because Roustaei emphasizes that "storage for image data could be provided at a web site" for his cell phones.

> In addition, as cell phones offer the option of internet connectivity, added storage for image data could be provided at a web site (paragraph 0041) (emphasis added).

One of ordinary skill in the art following Roustaei would not unnecessarily increase

costs by adding memory to Roustaei's cell phone when Roustaei explicitly instructs that "storage for image data could be provided at a web site"

Finally, the Roustaei imaging system is focused on uploading data captured by the image accessory, while the Davis remote printing system is focused on downloading print jobs from the relay server to the remote computer for printing at the remote printer. Substituting components and modifying functions that are focused on uploading image captured by the camera from the Roustaei imaging system with components that are focused to function for downloading print jobs would lead to unpredictable results under MPEP § 2143(B). Accordingly, for at least the above reasons, Roustaei and Davis are not combinable.

Conclusion

If the Examiner has any questions, or if a telephone interview would in any way advance prosecution of the application, please contact the undersigned attorney of record as indicated below, at (503) 224-6655, or the Applicant and representative of the assignee of this application, William Ho Chang, at (503) 381-7056.

CERTIFICATE OF E-FILING

I hereby certify that this correspondence is being transmitted electronically via the United States Patent and Trademark Office's EFS-Web System on February 18, 2014.

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Electronic Patent Application Fee Transmittal

Application Number:	09992413
Filing Date:	18-Nov-2001
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Filer:	Peter D. Sabido./Heidi Dutro
Attorney Docket Number:	FXT312

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with $0 paid	2252	1	300	300

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	300

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	18234674
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

RAM confirmation Number	9299
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Extension of Time	20140218_Extension_of_Time_FXT312.pdf	165885 889388868d17e3f909153881e801f79ee6d29f48	no	2
Warnings:					
Information:					
2	Amendment/Req. Reconsideration-After Non-Final Reject	20140218_Response_to_Office_Action_FXT312.pdf	367855 18f6b8801a7a06a08b8ee2d6c9b52c49780f9f097d	no	39
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30104 012608b7110ac6bc9cd5664b7ecc6148c8ad6995bc	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	563844		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/AIA/22 (03-13)
Approved for use through 7/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): FXT312

Application Number: 09/992413

Filed: 11/18/2001

For: INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RECEIVING PRODUCTS OF DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE SYSTEM INCLUDING THE TRANSMITTING AUDIO VISUAL CONTENT

Art Unit: 2453

Examiner: Esther Benoit

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	Micro Entity Fee	
☐	One month (37 CFR 1.17(a)(1))	$200	$100	$50	$
☑	Two months (37 CFR 1.17(a)(2))	$600	$300	$150	$ 300
☐	Three months (37 CFR 1.17(a)(3))	$1,400	$700	$350	$
☐	Four months (37 CFR 1.17(a)(4))	$2,200	$1,100	$550	$
☐	Five months (37 CFR 1.17(a)(5))	$3,000	$1,500	$750	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 11-1540.

☐ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant.

☑ attorney or agent of record. Registration number 50353.

☐ attorney or agent acting under 37 CFR 1.34. Registration number _____.

/Peter D. Sabido/ — Signature

February 18, 2014 — Date

Peter D. Sabido — Typed or printed name

503-224-6655 — Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☐ * Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/06 (09-11)
Approved for use through 1/31/2014 OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 09/992,413	Filing Date 11/18/2001	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)		
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	02/18/2014	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 69	Minus	** 69	=	X $ =	
	Independent (37 CFR 1.16(h))	* 7	Minus	***7	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

AMENDMENT		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/KATRINA . TURNER/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5537107	A	1996-07-16	FUNDADO, Shigeto	
	2	5546079	A	1996-08-13	WAGNER, Roman	
	3	5589889	A	1996-12-31	KAWAOKA, Yoshiki	
	4	5870723	A	1999-02-09	PARE, JR. et al.	
	5	6088450	A	2000-07-11	DAVIS et al.	
	6	6144997	A	2000-11-07	LAMMING et al.	
	7	6195564	B1	2001-02-27	RYDBECK et al.	
	8	6211858	B1	2001-04-03	MOON et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho CHANG
	Art Unit	2453
	Examiner Name	Esther BENOIT
	Attorney Docket Number	FXT312

	9	6223059	B1	2001-04-24	HAESTRUP, Jan	
	10	6633346	B1	2003-10-14	YAMAMOTO, Zenkou	
	11	6839775	B1	2005-01-04	KAO et al.	
	12	6947067	B2	2005-09-20	HALTTUNEN, Lasse	
	13	6983310	B2	2006-01-03	ROUSE et al.	
	14	7155163	B2	2006-12-26	CANNON et al.	
	15	7454796	B2	2008-11-18	MAZZAGATTE et al.	
	16	7660460	B2	2010-02-09	WU et al.	
	17	7743133	B1	2010-07-22	MOTOYAMA et al.	

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear

EFS Web 2.1.17

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho CHANG
	Art Unit	2453
	Examiner Name	Esther BENOIT
	Attorney Docket Number	FXT312

	1	20010015717	A1	2001-08-23	MISHRA et al.	
	2	20020090912	A1	2002-07-11	CANNON et al.	
	3	20030061606	A1	2003-03-27	HARTWIG et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EFS Web 2.1.17

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-11-25
Name/Print	Peter D. Sabido	Registration Number	50,353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	17501308
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Veronica Gotelli
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	25-NOV-2013
Filing Date:	18-NOV-2001
Time Stamp:	20:19:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20131125_SUPP_IDS_FXT312.pdf	613235 [illegible]	no	6

Warnings:	
Information:	
Total Files Size (in bytes):	613235

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Lexmark, Exhibit 1003
Lexmark v. Flexiworld

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5717742	A	1998-02-10	HYDE-THOMPSON, Henry C.A.	
	2	5852721	A	1998-12-22	DILLON et al.	
	3	5884140	A	1999-03-16	ISHIZAKI et al.	
	4	5907831	B1	1999-05-25	LOTVIN et al.	
	5	6205495	B1	2001-03-20	GILBERT et al.	
	6	6215483	B1	2001-04-10	ZIGMOND, Daniel J.	
	7	6385305	B1	2002-05-07	GERSZBERG et al.	
	8	6510515	B1	2003-01-21	RAITH, Alex Krister	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho CHANG
	Art Unit	2453
	Examiner Name	Esther BENOIT
	Attorney Docket Number	FXT312

	9	6526129	B1	2003-02-25	BEATON et al.	
	10	6622015	B1	2003-09-16	HIMMEL et al.	
	11	6628302	B2	2003-09-30	WHITE et al.	
	12	6859937	B1	2005-02-22	NARAYAN et al.	
	13	7076534	B1	2006-07-11	CLERON et al.	
	14	7143356	B1	2006-11-28	SHAFRIR et al.	
	15	7237253	B1	2007-06-26	BLACKKETTER et al.	
	16	7348961	B1	2008-03-25	SHNEIDMAN, Jonathan	
	17	7360230	B1	2008-04-15	PAZ et al.	
	18	8533352	B2	2013-09-10	CHANG, William Ho	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20050210120	A1	2005-09-22	YUKIE et al.	
	2	20110197159	A1	2011-08-11	CHAGANTI et al.	
	3	20120226777	A1	2012-09-06	SHANAHAN, Michael E.	

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FOREIGN PATENT DOCUMENTS Remove

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Office Action regarding U.S. Patent Application Serial No. 13/108,925; mailing date 17 JUL 2013; 46 pages.	☐
	2	U.S. PATENT AND TRADEMARK OFFICE (Oleg SURVILLO, Examiner); Office Action regarding U.S. Patent Application Serial No. 11/933,031; mailing date 18 JUL 2013; 60 pages.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho CHANG
	Art Unit	2453
	Examiner Name	Esther BENOIT
	Attorney Docket Number	FXT312

	3	U.S. PATENT AND TRADEMARK OFFICE (Esther BENOIT, Examiner); Office Action regarding U.S. Patent Application Serial No. 12/204,689; mailing date 15 AUG 2013; 63 pages.	☐
	4	U.S. PATENT AND TRADEMARK OFFICE (Esther BENOIT, Examiner); Office Action regarding U.S. Patent Application Serial No. 12/204,695; mailing date 27 AUG 2013; 62 pages.	☐
	5	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Notice of Allowance regarding U.S. Patent Application Serial No. 13/108,922; mailing date 19 SEP 2013; 44 pages.	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	09992413
	Filing Date	2001-11-18
	First Named Inventor	William Ho CHANG
	Art Unit	2453
	Examiner Name	Esther BENOIT
	Attorney Docket Number	FXT312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-09-24
Name/Print	Peter D. Sabido	Registration Number	50353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	16945225
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Veronica Gotelli
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	24-SEP-2013
Filing Date:	18-NOV-2001
Time Stamp:	20:06:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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Lexmark v. Flexiworld

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	20130924_Supplemental_IDS_FXT312.pdf	613557	no	6
Warnings:					
Information:					
2	Non Patent Literature	NPL01_20130717_OA_from_FXT309DIV2.pdf	5537378	no	46
Warnings:					
Information:					
3	Non Patent Literature	NPL02_20130718_OA_from_FXT313.pdf	5775817	no	60
Warnings:					
Information:					
4	Non Patent Literature	NPL03_20130815_OA_from_FXT311.PDF	11024086	no	63
Warnings:					
Information:					
5	Non Patent Literature	NPL04_20130827_OA_from_FXT314.pdf	7005889	no	62
Warnings:					
Information:					
6	Non Patent Literature	NPL05_20130919_NOA_from_FXT309DIV1.PDF	10441180	no	44
Warnings:					
Information:					
		Total Files Size (in bytes):	40397907		

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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,413	11/18/2001	William Ho Chang	EXT312	5528

7590 09/17/2013

Edward B. Anderson
Kolisch Hartwell, P.C.
200 Pacific Building
520 S.W. Yamhill Street
Portland, OR 97204

EXAMINER	
BENOIT, ESTHER	
ART UNIT	PAPER NUMBER
2453	
MAIL DATE	DELIVERY MODE
09/17/2013	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

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Office Action Summary	Application No. 09/992,413	Applicant(s) CHANG ET AL.	
	Examiner ESTHER BENOIT	Art Unit 2453	AIA (First Inventor to File) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *3/14/2012*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *131-200* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *131-200* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some * c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *4/9/12, 7/10/12, 2/5/13, 5/13/13, 6/5/13*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 14, 2012 has been entered. Claims 131-200 have been amended. Claims 131-200 remain pending in this application

Response to Arguments

2. Applicant's arguments with respect to claims 131-200 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

3. The numbering of the claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not). Claim 188 is missing. Corrections in numbering are required.

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Double Patenting

4. The nonstatutory obviousness double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit http://www.uspto.gov/forms/. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled

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out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

5. Claims 131-200 are provisionally rejected on the ground of nonstatutory obviousness double patenting as being unpatentable over claims 66-93 of copending Application No. 12/204,689. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims are directed to the same subject matter. For example, claim 148 of the instant application claims similar subject matter to claim 66 of copending application 12/204,689. A side-by-side analysis of the instant application and the copending application will not be performed, because there are too many claims in each application to perform the side-by-side analysis.

This is a provisional obviousness nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Examiner Notes

The examiner encourages applicants to review each independent claim to ensure similar subject matter is recited in each claim. The examiner notes the subject matter of each independent claim varies in scope, which could potentially lead the examiner to require cancellation of claim sets (if the application becomes in condition for allowance in the future). When performing any future claim amendments, the examiner encourages applicants to either cancel any claims that do not embody the full scope of

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their invention or make changes to the claims that would certify the subject matter of each independent claim is parallel in scope to one another.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 131-138, 142-147, 157-159, 161-188, and 190-200 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roustaei et al. (US 2001/0034222 A1), in view of Davis et al. (US 2002/0059489 A1).

With respect to claim 131, Roustaei discloses a method of operating a digital content service for providing output content over a network that includes the Internet to an information apparatus for rendering at an output device ([0015]-[0017], cellular phone), the output device is at least one of a display device and an audio output device ([0015]-[0017], cellular phone), the digital content service system including,

one or more servers for providing, to the information apparatus, device dependent output data corresponding to the output content, the device dependent output data being device specific and being acceptable for rendering at the output device, the one or more servers being distinct and separate from the information apparatus and the output device ([0008]), and

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one or more server applications at the one or more servers for generating the device dependent output data ([0008]), the digital content service method comprising:

generating the device dependent output data at the one or more servers with the one or more server applications ([0008]), the generating of the device dependent output data including:

applying, by the one or more server applications, a compression operation on the selected output content ([0011], MPEG compression), and

transmitting, by the one or more servers, at least part of the generated device dependent output data to the information apparatus for rendering of the selected output content at the output device that is at least one of a display device and an audio output device ([0008], [0015]-[0017], allowing voice transmissions using a cellular phone);

Roustaei does not explicitly teach:

ensuring security of the output content;

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user, and, in dependence of successful authentication of the user, enabling the user access to the digital content service;

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service;

providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection at the information apparatus;

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receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content;

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device;

retrieving, by the one or more server applications, the selected output content from the content server employing, at least in part, the pointer or reference to the selected output content included in the content object received from the information apparatus;

applying, by the one or more server applications, an encryption scheme on the selected output content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device, the generated device dependent output data corresponding to the selected output content and having a relationship at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network;

However, Davis teaches:

ensuring security of the output content ([0038], using authentication information);

receiving, from the information apparatus by the one or more servers, security or authentication information associated with the user operating the information apparatus for authentication of the user ([0038], user authentication information), and, in

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dependence of successful authentication of the user, enabling the user access to the digital content service ([0038], the user is authenticated to print content);

receiving, from the information apparatus by the one or more servers, payment or subscription information for accessing the digital content service ([0038], authentication information related to user group (subscription));;

providing, to the information apparatus by the one or more servers, one or more pointers or references to one or more output content available at a content server for selection at the information apparatus ([0025]-[0029] and [0038], print jobs referenced by server printer);

receiving, at the one or more servers, a content object from the information apparatus over the network, the content object including a pointer or reference to a selected output content ([0025]-[0029] and [0039], print jobs received by server printer);

receiving, at the one or more servers, an output device object from the information apparatus over the network, the output device object having one or more attributes associated with the output device ([0031], printer identifier);

retrieving, by the one or more server applications, the selected output content from the content server employing, at least in part, the pointer or reference to the selected output content included in the content object received from the information apparatus ([0025]-[0029] and [0039], print jobs being referenced by server printer);

applying, by the one or more server applications, an encryption scheme on the selected output content for ensuring security of the device dependent output data that is device specific and is acceptable for rendering at the output device ([0039],

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authentication), the generated device dependent output data corresponding to the selected output content and having a relationship at least in part, to the one or more attributes associated with the output device included in the output device object and received by the one or more servers from the information apparatus over the network ([0031] and [0039]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of the Roustaei with the teachings of Davis to associate job objects with output devices, *because* it will allow for printing of digital content without storing the content at the output.

With respect to claim 134, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses the encryption scheme includes use of security keys for generating the device dependent output data ([0042], where authentication relates to the security keys).

With respect to claim 135, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses the output device includes a display controller unit for displaying at least part of the selected output content at the output device ([0017], and [0039]-[0040], display of video images).

With respect to claim 137, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses the information apparatus is a wireless information apparatus and includes one or more of a palmtop computer, a handheld computer, a laptop computer, an e-book a personal digital assistant (PDA), a smart phone, a screen phone, an Internet phone, an information pad, an Internet pad, an

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Internet appliance, and a digital camera, individually or in any combination ([0015]-[0017]).

With respect to claim 142, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses the output device is part of a television ([0042], video image application)..

With respect to claim 143, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses establishing a communication channel between the information apparatus and the one or more server applications, the communication channel including one or more of an Internet, a local area network, a cellular network, and a wide area network, individually or in any combination (Internet appliance).

With respect to claim 144, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses the output device is an audio output device and the device dependent output data includes audio data (Figure 1 and [0017], speaker).

With respect to claim 146, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses the output device or the information apparatus decodes and decompresses the device dependent output data for rendering the output content ([0011] and [0044], compression and decoding scheme).

With respect to claim 147, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei discloses generating the device dependent

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output data at the one or more servers includes one or more of invoking, launching, calling, utilizing, and involving one or more applications ([0039] and [0041], calling).

With respect to claims 132-133, 136, 138, 145, 157-159, 161-187, and 190-200, the limitations of these claims are essentially similar to the limitations of claims 132-133, 136, 138, 145, 157-159, 161-187, and 190-200. Claims 132-133, 136, 138, 145, 157-159, 161-187, and 190-200 are simply variations of the subject matter found in the claims above. For this reason, claims 132-133, 136, 138, 145, 157-159, 161-187, and 190-200 are rejected for the same reasons as the claims above and will not be individually repeated.

8. Claims 139-141 and 160 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roustaei et al. (US 2001/0034222 A1), in view of Davis et al. (US 2002/0059489 A1), and further in view of Lapstun et al. (US 2009/0094457 A1).

With respect to claim 139, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei and Davis do not explicitly teach the payment information is provided through the information apparatus as entered by a user in response to a prompt to enter payment information; however, Lapstun teaches the payment information is provided through the information apparatus as entered by a user in response to a prompt to enter payment information ([0361], payment information).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of the Roustaei and Davis with

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the teachings of Lapstun to receive payment information from the user for systems requiring users to pay for outputted content objects.

With respect to claim 140, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei and Davis do not explicitly teach the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system; however, Lapstun teaches the payment information includes service subscriber information corresponding to a pre-arranged subscription to a digital content service system ([0361], payment information for user registration).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of the Roustaei and Davis with the teachings of Lapstun to receive payment information from the user for systems requiring users to pay for outputted content objects.

With respect to claim 141, the combination of Roustaei and Davis teaches the method of claim 131 in which Roustaei and Davis do not explicitly teach correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information; however, Lapstun teaches correlating the service subscriber information with a subscriber database that stores subscriber profiles with subscription payment information ([0361], registration of users).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of the Roustaei and Davis with

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the teachings of Lapstun to correlate payment information with subscriber profiles for systems requiring users to pay for outputted content objects.

With respect to claim 160, the limitations of this claim are essentially similar to the limitations of claims 139-141. For this reason, claim 160 is rejected for the same reasons as the claims above and will not be individually repeated.

9. Claims 148-156 and 189 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roustaei et al. (US 2001/0034222 A1), in view of Davis et al. (US 2002/0059489 A1), and further in view of Hall et al. (US 2001/0012281 A1).

With respect to claim 148, Roustaei discloses an information apparatus for obtaining digital content acceptable for rendering at an output device, the output device being at least one of a display device and an audio output device ([0015]-[0017], cellular phone), the digital content accessible, at least partly, by the information apparatus, the information apparatus including:

a processor ([0015]);

an operating system ([0015]);

a touch sensitive screen ([0003], touch screen);

a graphical user interface over the touch sensitive screen for selecting an icon and for scrolling display ([0003]); and

a client application for interacting with a user via the graphical user interface over the touch sensitive screen of the information apparatus (Abstract), the client application

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facilitated, at least partly, by the operating system, wherein the information apparatus is operable;

Roustaei does not explicitly teach:

sending, from the information apparatus to one or more servers a server over a network, security or authentication information associated with the user of the information apparatus for authentication of the user, the one or more servers server being distinct and separate from the information apparatus and the output device, and in dependence of successful authentication of the user, enabling the user access to a digital content data output service provided by the one or more servers;

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers;

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers;

receiving, by the client application and via the .graphical user interface over the touch sensitive screen, a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers;

However, Davis teaches:

sending, from the information apparatus to one or more servers a server over a network, security or authentication information associated with the user of the information apparatus for authentication of the user ([0038], authentication information),

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the one or more servers server being distinct and separate from the information apparatus and the output device ([0025]-[0029] and [0038], servers different from printer and user computer), and in dependence of successful authentication of the user, enabling the user access to a digital content data output service provided by the one or more servers ([0038]);

sending, from the information apparatus to the one or more servers, payment or subscription information for accessing the digital content service provided by the one or more servers ([0038], authentication information related to user group (subscription));

receiving, by the information apparatus and from the one or more servers over the network, one or more pointers or references to one or more digital content that are stored in the one or more servers ([0025]-[0029] and [0039], print jobs referenced by server printer);

receiving, a selected digital content from among the one or more pointers or references to the one or more digital content stored in the one or more servers ([0025]-[0029] and [0039], print jobs received);

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of the Roustaei with the teachings of Davis to establish references for the digital content to reference digital content for printing without storing the content at the output.

Roustaei and Davis do not teach installing at least part of the client application for expanding functionalities of the information apparatus; However, Hall discloses

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installing at least part of the client application for expanding functionalities of the information apparatus ([0020], downloading applications to phone).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of the Roustaei and Davis with the teachings of Hall to install applications on the mobile information apparatus, *because* it will allow the user to customize the mobile apparatus.

With respect to claims 149-156, and 189, the limitations of these claims are essentially similar to the limitations of claims 131, 134-135, 137, 142-144, and 146-148. Claims 149-156 and 189 are simply variations of the subject matter found in the claims above. For this reason, claims 149-156 and 189 are rejected for the same reasons as the claims above and will not be individually repeated.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Esther Benoit whose telephone number is 571-270-3807. The examiner can normally be reached on Monday through Friday between 7:30 a.m and 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Krista M. Zele can be reached on 571-272-7288. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/E.B./
Examiner, Art Unit 2453
September 16, 2013

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Notice of References Cited	Application/Control No. 09/992,413	Applicant(s)/Patent Under Reexamination CHANG ET AL.	
	Examiner ESTHER BENOIT	Art Unit 2453	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2001/0034222	10-2001	Roustaei et al.	455/403
*	B	US-2002/0059489	05-2002	Davis et al.	710/72
*	C	US-2001/0012281	08-2001	HALL et al.	370/338
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
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*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6252964	B1	2001-06-26	Wasilewski et al.	
	2	6363149	B1	2002-03-26	Candelore	
	3	6889385	B1	2005-05-03	Rakib et al.	
	4	7133845	B1	2006-11-07	Ginter et al.	
	5	7133846	B1	2006-11-07	Ginter et al.	

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Receipt date: 05/13/2013	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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	1	U.S. PATENT AND TRADEMARK OFFICE, Office action regarding U.S. Patent Application Serial No. 13/108,925, February 11, 2013, 44 pages.	☐

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Examiner Signature	/Esther Benoit/	Date Considered	09/16/2013

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	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-05-13
Name/Print	Peter D. Sabido	Registration Number	50,353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	Benoit, Esther	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013		
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013		
	37	÷	✓	.	.	.	.	.		
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	108			-	-	-	-	-		

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	Benoit, Esther	2453

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013		
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	129			-	-	-	-	-		
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	131			✓	✓	✓	✓	✓		
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	142			✓	✓	✓	✓	✓		
	143			✓	✓	✓	✓	✓		
	144			✓	✓	✓	✓	✓		

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	Benoit, Esther	2453

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CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013		
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	Examiner	Art Unit
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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
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☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/02/2007	06/25/2007	03/29/2009	05/18/2010	12/11/2010	08/31/2011	09/15/2013		
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	182			✓	✓	✓	✓	✓		
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	09992413	CHANG ET AL.
	Examiner	Art Unit
	Benoit, Esther	2453

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	203-230, 245-48	6/13/07	AMN
715	500, 516-517,969	6/13/07	AMN
710	8, 10	6/13/07	AMN
358	1.1	3/29/09	AMN
	Update Search	12/9/2010	EB
	Update Search	8/31/2011	EB
	Update Search	9/16/2013	EB

SEARCH NOTES		
Search Notes	Date	Examiner
East Search (USPAT; USPGPUB; EPO: JPO: DERWENT; IBM_TDB)	6/13/07	AMN
Inventor Name Search for ODP	6/16/07	AMN
updated East search	3/29/09	AMN
updated inventor name search	3/29/09	AMN
updated East search	1/18/09	AMN
updated classification and inventor name search	5/18/10	AMN
Update Search	12/9/2010	EB
Assignee Search	12/13/2010	EB
Update Search	8/31/2011	EB
Limited classified search of d18, 101, 358, and 713	8/31/2011	EB
Update Search	9/16/2013	EB

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	JP11316658	JP	A	1999-11-16	Mitsui		☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 02/05/2013	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

	1	US PATENT AND TRADEMARK OFFICE, Office Action regarding US Patent Application Serial No. 13/108,922, November 5, 2012, 63 pages.	☐

If you wish to add additional non-patent literature document citation information please click the Add button **Add**

EXAMINER SIGNATURE

Examiner Signature	/Esther Benoit/	Date Considered	09/16/2013

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 02/05/2013	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-02-05
Name/Print	Peter D. Sabido	Registration Number	50,353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT.312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5220674	A	1993-06-15	Morgan et al.	
	2	5287194	A	1994-02-15	Lobiondo	
	3	5319711	A	1994-06-07	Servi	
	4	5485634	A	1996-01-16	Weiser et al.	
	5	5490287	A	1996-02-06	Itoh et al.	
	6	5515480	A	1996-05-07	Frazier	
	7	5519641	A	1996-05-21	Beers et al.	
	8	5524185	A	1996-06-04	Na	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 04/09/2012	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT.312	

	9	5564109	A	1996-10-08	Snyder et al.	
	10	5580177	A	1996-12-03	Gase et al.	
	11	5613123	A	1997-03-18	Tsang et al.	
	12	5619649	A	1997-04-08	Kovnat et al.	
	13	5699495	A	1997-12-16	Snipp	
	14	5754655	A	1998-05-19	Hughes et al.	
	15	5822230	A	1998-10-13	Kikinis et al.	
	16	5831664	A	1998-11-03	Wharton et al.	
	17	5832191	A	1998-11-03	Thorne	
	18	5838926	A	1998-11-17	Yamagishi	
	19	5859970	A	1999-01-12	Pleso	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

	20	5867633	A	1999-02-02	Taylor, III et al.	
	21	5917542	A	1999-06-29	Moghadam et al.	
	22	5926104	A	1999-07-20	Robinson	
	23	5933498	A	1999-08-03	Schneck et al.	
	24	6076076	A	2000-06-13	Gottfreid	
	25	6078906	A	2000-06-20	Huberman	
	26	6138178	A	2000-10-24	Watanabe	
	27	6148346	A	2000-11-14	Hanson	
	28	6167514	A	2000-12-26	Matsui et al.	
	29	6173407	B1	2001-01-09	Yoon et al.	
	30	6184996	B1	2001-02-06	Gase	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

	31	6192407	B1	2001-02-20	Smith et al.	
	32	6199099	B1	2001-03-06	Gershman et al.	
	33	6201611	B1	2001-03-13	Carter et al.	
	34	6233611	B1	2001-05-15	Ludtke et al.	
	35	6236971	B1	2001-05-22	Stefik et al.	
	36	6246486	B1	2001-06-12	Takahashi	
	37	6255961	B1	2001-07-03	Van Ryzin et al.	
	38	6263503	B1	2001-07-17	Margulis	
	39	6285889	B1	2001-09-04	Nykanen et al.	
	40	6324521	B1	2001-11-27	Shiota et al.	
	41	6330611	B1	2001-12-11	Itoh et al.	

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(Not for submission under 37 CFR 1.99)	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT.312	

	42	6366965	B1	2002-04-02	Binford et al.	
	43	6379058	B1	2002-04-30	Petteruti et al.	
	44	6389010	B1	2002-05-14	Kubler et al.	
	45	6421748	B1	2002-07-16	Lin et al.	
	46	6434535	B1	2002-08-13	Kupka et al.	
	47	6437786	B1	2002-08-20	Yasukawa	
	48	6449052	B1	2002-09-10	Sherer et al.	
	49	6453127	B2	2002-09-17	Wood et al.	
	50	6480292	B1	2002-11-12	Sugiyama	
	51	6489934	B1	2002-12-03	Klausner	
	52	6529522	B1	2003-03-04	Ito et al.	

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

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Lexmark v. Flexiworld

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT.312	

	53	6542173	B1	2003-04-01	Buckley	
	54	6542491	B1	2003-04-01	Tari et al.	
	55	6546419	B1	2003-04-08	Humpleman et al.	
	56	6553240	B1	2003-04-22	Dervarics	
	57	6553431	B1	2003-04-22	Yamamoto et al.	
	58	6577861	B2	2003-06-10	Ogasawara	
	59	6584903	B2	2003-07-01	Jacobs	
	60	6587835	B1	2003-07-01	Treyz et al.	
	61	6604148	B1	2003-08-05	Dennison	
	62	6607314	B1	2003-08-19	McCannon et al.	
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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	65	6690918	B2	2004-02-10	Evans et al.	
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	69	6813039	B1	2004-11-02	Silverbrook et al.	
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	72	6922258	B2	2005-07-26	Pineau	
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	74	6990548	B1	2006-01-24	Kaylor	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

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	76	7263270	B1	2007-08-28	Lapstun et al.	
	77	7318086	B2	2008-01-08	Chang et al.	
	78	7346374	B2	2008-03-18	Witkowski et al.	
	79	7370090	B2	2008-05-06	Nakaoka et al.	
	80	7609402	B2	2009-10-27	Chang et al.	
	81	7941541	B2	2011-05-10	Chang et al.	
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 04/09/2012

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT.312

	86	RE043181	E	2012-02-14	Liu et al.	

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010029531	A1	2001-10-11	Ohta	
	2	20020012329	A1	2002-01-31	Atkinson et al.	
	3	20020026492	A1	2002-02-28	Fujita	
	4	20020038612	A1	2002-04-04	Iwazaki	
	5	20020049839	A1	2002-04-25	Miida et al.	
	6	20020057452	A1	2002-05-16	Yoshino	
	7	20020077980	A1	2002-06-20	Chang et al.	
	8	20020081993	A1	2002-06-27	Toyoshima	

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Lexmark v. Flexiworld

	9	20020087622	A1	2002-07-04	Anderson	
	10	20020178272	A1	2002-11-28	Igarashi et al.	
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	18	20080318602	A1	2008-12-25	Chang et al.	
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

	20	20090070411	A1	2009-03-12	Chang et al.		
	21	20110279829	A1	2011-11-17	Chang et al.		
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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	691619	EP		1996-01-10	Flynn et al.		☐
	2	952513	EP		1999-10-27	White et al.		☐
	3	2332764	GB		2002-11-06	Hamzy et al.		☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	CHRISTIAN BETTSTETTER and CHRISTOPH RENNER, "A Comparison of Service Discovery Protocols and Implementation of the Service Location Protocol", Institute of Communications Networks, In Proceedings of the 6th EUNICE Open European Summer School: Innovative Internet Applications, September 13-15, 2000, 8 pages, Techische Universitat Munich, Munich, Germany.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /E.B./

Receipt date: 04/09/2012	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT.312	

	2	US PATENT AND TRADEMARK OFFICE, Office Action regarding US Patent Application Serial No. 12/204,695, September 15, 2011, 38 pages.	☐

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Examiner Signature	/Esther Benoit/	Date Considered	09/16/2013

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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Lexmark v. Flexiworld

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Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT.312

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2012-04-09
Name/Print	Peter D. Sabido	Registration Number	50,353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark v. Flexiworld

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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	1	0738949	EP	A1	1996-10-23	Fuji Xerox Co. Ltd.		☐

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 07/10/2012	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho Chang	
	Art Unit	2453	
	Examiner Name	Esther Benoit	
	Attorney Docket Number	FXT312	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 07/10/2012

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	09992413 09992413 - GAU: 2453
Filing Date	2001-11-18
First Named Inventor	William Ho Chang
Art Unit	2453
Examiner Name	Esther Benoit
Attorney Docket Number	FXT312

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Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2012-07-10
Name/Print	Peter D. Sabido	Registration Number	50,353

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Art Unit	2453
Examiner Name	Esther BENOIT
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U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5048057	A	1991-09-10	SALEH, Adel A. M.	
	2	5166809	A	1992-11-24	SURBROOK, Craig L.	
	3	5337258	A	1994-08-09	DENNIS, Stephen V.	
	4	5404433	A	1995-04-04	HOSOGAI, Takashi	
	5	5412798	A	1995-05-02	GARNEY, John I.	
	6	5596697	A	1997-01-21	FOSTER et al.	
	7	5604843	A	1997-02-18	SHAW et al.	
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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 06/05/2013	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho CHANG	
	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

	9	5687332	A	1997-11-11	KURAHASHI et al.	
	10	5737501	A	1998-04-07	TSUNEKAWA, Kiyohiro	
	11	5761480	A	1998-06-02	FUKADA et al.	
	12	5826244	A	1998-10-20	HUBERMAN, Bernardo A.	
	13	5903832	A	1999-05-11	SEPPANEN et al.	
	14	5911044	A	1999-06-08	LO et al.	
	15	6035214	A	2000-03-07	HENDERSON, Donnie	
	16	6046820	A	2000-04-04	KONISHI, Jun	
	17	6072595	A	2000-06-06	YOSHIURA et al.	
	18	6363452	B1	2002-03-26	LACH, Jorge E.	
	19	6467688	B2	2002-10-22	GOLDMAN et al.	

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Receipt date: 06/05/2013	Application Number	09992413	09992413 - GAU: 2453
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	First Named Inventor	William Ho CHANG	
	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

	20	6473070	B1	2002-10-29	MISHRA et al.	
	21	6540722	B1	2003-04-01	BOYLE et al.	
	22	6545722	B1	2003-04-08	SCHULTHEISS et al.	
	23	6556313	B1	2003-04-29	CHANG et al.	
	24	6600569	B1	2003-07-29	OSADA et al.	
	25	6601108	B1	2003-07-29	MARMOR, Eliyahu	
	26	6608928	B1	2003-08-19	QUEIROZ, Ricardo de	
	27	6633395	B1	2003-10-14	TUCHITOI et al.	
	28	6654135	B2	2003-11-25	MINTANI, Shigeyuki	
	29	6670982	B1	2003-12-30	CLOUGH et al.	
	30	6671068	B1	2003-12-30	CHANG et al.	

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Lexmark, Exhibit 1003
Lexmark v. Flexiworld

Receipt date: 06/05/2013	Application Number	09992413	09992413 - GAU: 2453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Filing Date	2001-11-18	
	First Named Inventor	William Ho CHANG	
	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

	31	6701009	B1	2004-03-02	MAKOTO et al.	
	32	6711677	B1	2004-03-23	WIEGLEY, Rose E.	
	33	6748195	B1	2004-06-08	PHILLIPS, W. Garland	
	34	6750978	B1	2004-06-15	MARGGRAFF et al.	
	35	6753978	B1	2004-06-22	CHANG, William Ho	
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	45	6958821	B1	2005-10-25	MCINTYRE, Dale F.	
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Lexmark v. Flexiworld

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	59	7460853	B2	2008-12-02	TOYOSHIMA, Akihiko	
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	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

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Attorney Docket Number	FXT312

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010032254	A1	2001-10-18	HAWKINS, Jeffrey	
	2	20010055951	A1	2001-12-27	SLOTZNICK, Benjamin	
	3	20020017827	A1	2002-02-14	ZUPPERO et al.	
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	Attorney Docket Number	FXT312	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] j	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	1217503	CN	A	1999-05-26	INTERNATIONAL BUSINESS MACHINES CORPORATION		☐
	2	200195096	WO	A2	2001-12-13	ZUCOTTO WIRELESS		☐
	3	200195097	WO	A2	2001-12-13	ZUCOTTO WIRELESS		☐
	4	1488106	CN	A	2004-04-07	FLEXIWORLD TECHNOLOGIES, INC.		☐

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	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

	5	1541370	CN	B	2010-05-05	FLEXIWORLD TECHNOLOGIES, INC.		☐
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	7	101833430	CN	A	2010-09-15	FLEXIWORLD TECHNOLOGIES, INC.		☐
	8	101825996	CN	B	2012-05-09	FLEXIWORLD TECHNOLOGIES, INC.		☐

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	BISDIKIAN, ET AL., "WiSAP: A wireless personal access network for handheld computing devices," Personal Communications, IEEE [see also IEEE Wireless Communications] , vol.5, no.6, pp. 18-25, Dec 1998.	☐
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	First Named Inventor	William Ho CHANG	
	Art Unit	2453	
	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

	6	Screenshots from Microsoft® NT™, Figures 5-7, 1998, 3 pages.	☐
	7	Screenshots from Microsoft® Word 2000, Figures 1-4, 1999, 4 pages.	☐
	8	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Notice of Allowance regarding U.S. Patent Application Serial No. 11/933,005; mailing date 12 JAN 2011; 44 pages.	☐
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	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

EXAMINER SIGNATURE			
Examiner Signature	/Esther Benoit/	Date Considered	09/16/2013

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	Examiner Name	Esther BENOIT	
	Attorney Docket Number	FXT312	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-06-05
Name/Print	Peter D. Sabido	Registration Number	50,353

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S109	13880	709/217.ccls.	US-PGPUB; USPAT; USOCR	WITH	ON	2013/09/16 08:54
S110	40	flexiworld.as.	US-PGPUB; USPAT; USOCR	WITH	ON	2013/09/16 08:54
S111	3266	("713".clas. or "726".clas.) and (printer server)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/09/16 08:55
S112	111	("713".clas. or "726".clas.) and (mobile or portable) and (printer server) and (payment or subscri$7) and (television)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/09/16 08:55
S117	14	((install$4 or add$4 or download$4) near2 (software or application or app) near3 (mobile or phone or pda)) and ((job or task or workflow) near2 object) and ((accept$4 or receive$4 or 3btain$4) near2(payment or subscription))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/09/16 09:01
S118	5885	(touch near2 (screen or pad)) and (install$4 or add$4 or download$4) near2 (software or application or app) and (payment or subscription) and (job or task or workflow) and (authenticat$4 or authoriz$6 or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/09/16 09:02
S119	700	"455".clas. and (touch near2 (screen or pad)) and (install$4 or add$4 or download$4) near2 (software or application or app) and (payment or subscription) and (job or task or workflow) and (authenticat$4 or authoriz$6 or password)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/09/16 09:02
S120	84	(((cellular or mobile) or phone) near2 (send$4 or transmit$6 or transmission or deliver$4 or use or utiliz$4) near3 printer).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/09/16 10:55
S121	8	("726".clas. or "713".clas.) and (remote near2 printer).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2013/09/16 11:15

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 09/992413

filed on 11/18/2001.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: William Ho Chang Date (Optional): May 30, 2013

Signature: William Ho Chang

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	INFORMATION APPARATUS AND OUTPUT DEVICE FOR SELECTING AND RENDERING PROTECTED DIGITAL CONTENT ON DEMAND, AND DIGITAL CONTENT SERVICE OVER THE INTERNET FOR TRANSMITTING AUDIO/VIDEO CONTENT

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 09/992413

filed on 11/18/2001.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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LEGAL NAME OF INVENTOR

Inventor: Christina Ying Liu Date: (Optional) :

Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Lexmark v. Flexiworld

Electronic Acknowledgement Receipt

EFS ID:	16023548
Application Number:	09992413
International Application Number:	
Confirmation Number:	5528
Title of Invention:	Method for mobile and pervasive output
First Named Inventor/Applicant Name:	William Ho Chang
Correspondence Address:	Edward B. Anderson Kolisch Hartwell, P.C. 200 Pacific Building 520 S.W. Yamhill Street Portland OR 97204 US 503-224-6655 docketing@khpatent.com
Filer:	Peter D. Sabido./Heidi Dutro
Filer Authorized By:	Peter D. Sabido.
Attorney Docket Number:	FXT312
Receipt Date:	12-JUN-2013
Filing Date:	18-NOV-2001
Time Stamp:	18:11:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	20130530_Declaration_Signed_by_Chang_FXT312_.pdf	165265 [illegible]	no	1
Warnings:					
Information:					
2	Oath or Declaration filed	20130604_Declaration_Signed_by_Liu_FXT312_.pdf	156255 [illegible]	no	1
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PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	09992413
Filing Date	2001-11-18
First Named Inventor	William Ho CHANG
Art Unit	2453
Examiner Name	Esther BENOIT
Attorney Docket Number	FXT312

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5048057	A	1991-09-10	SALEH, Adel A. M.	
	2	5166809	A	1992-11-24	SURBROOK, Craig L.	
	3	5337258	A	1994-08-09	DENNIS, Stephen V.	
	4	5404433	A	1995-04-04	HOSOGAI, Takashi	
	5	5412798	A	1995-05-02	GARNEY, John I.	
	6	5596697	A	1997-01-21	FOSTER et al.	
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	9	5687332	A	1997-11-11	KURAHASHI et al.	
	10	5737501	A	1998-04-07	TSUNEKAWA, Kiyohiro	
	11	5761480	A	1998-06-02	FUKADA et al.	
	12	5826244	A	1998-10-20	HUBERMAN, Bernardo A.	
	13	5903832	A	1999-05-11	SEPPANEN et al.	
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	16	6046820	A	2000-04-04	KONISHI, Jun	
	17	6072595	A	2000-06-06	YOSHIURA et al.	
	18	6363452	B1	2002-03-26	LACH, Jorge E.	
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	20	6473070	B1	2002-10-29	MISHRA et al.	
	21	6540722	B1	2003-04-01	BOYLE et al.	
	22	6545722	B1	2003-04-08	SCHULTHEISS et al.	
	23	6556313	B1	2003-04-29	CHANG et al.	
	24	6600569	B1	2003-07-29	OSADA et al.	
	25	6601108	B1	2003-07-29	MARMOR, Eliyahu	
	26	6608928	B1	2003-08-19	QUEIROZ, Ricardo de	
	27	6633395	B1	2003-10-14	TUCHITOI et al.	
	28	6654135	B2	2003-11-25	MINTANI, Shigeyuki	
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	31	6701009	B1	2004-03-02	MAKOTO et al.	
	32	6711677	B1	2004-03-23	WIEGLEY, Rose E.	
	33	6748195	B1	2004-06-08	PHILLIPS, W. Garland	
	34	6750978	B1	2004-06-15	MARGGRAFF et al.	
	35	6753978	B1	2004-06-22	CHANG, William Ho	
	36	6757070	B1	2004-06-29	LIN et al.	
	37	6785727	B1	2004-08-31	YAMAZAKI, Masahito	
	38	6788428	B1	2004-09-07	SHIMOKAWA, Katsumi	
	39	6801692	B2	2004-10-05	NISHIMURA et al.	
	40	6819919	B1	2004-11-16	TANAKA, Hirohisa A.	
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	43	6915124	B1	2005-07-05	KIESSLING et al.	
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	46	6980319	B2	2005-12-27	OHTA, Yasutoshi	
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	49	7039445	B1	2006-05-02	YOSHIZAWA, Junichi	
	50	7058356	B2	2006-06-06	SLOTZNICK, Benjamin	
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	53	7180614	B1	2007-02-20	SENOO et al.	
	54	7197531	B2	2007-03-27	ANDERSON, Eric C.	
	55	7272788	B2	2007-09-18	ANDERSON et al.	
	56	7359714	B2	2008-04-15	PARUPUDI et al.	
	57	7366468	B2	2008-04-29	YOSHIDA, Shigeo	
	58	7403510	B1	2008-07-22	MIYAKE, Izumi	
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	69	8169649	B2	2012-05-01	CHANG et al.	
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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010032254	A1	2001-10-18	HAWKINS, Jeffrey	
	2	20010055951	A1	2001-12-27	SLOTZNICK, Benjamin	
	3	20020017827	A1	2002-02-14	ZUPPERO et al.	
	4	20020062398	A1	2002-05-23	CHANG et al.	
	5	20020062406	A1	2002-05-23	CHANG et al.	
	6	20020065873	A1	2002-05-23	ISHIZUKA, Hiroaki	
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	15	20020099884	A1	2002-07-25	CHANG et al.	
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	22	20100203824	A1	2010-08-12	CHANG et al.	
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	24	20110034150	A1	2011-02-10	CHANG et al.	
	25	20110035682	A1	2011-02-10	CHANG et al.	
	26	20110211226	A1	2011-09-01	CHANG et al.	

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] ¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	1217503	CN	A	1999-05-26	INTERNATIONAL BUSINESS MACHINES CORPORATION		☐
	2	200195096	WO	A2	2001-12-13	ZUCOTTO WIRELESS		☐
	3	200195097	WO	A2	2001-12-13	ZUCOTTO WIRELESS		☐
	4	1488106	CN	A	2004-04-07	FLEXIWORLD TECHNOLOGIES, INC.		☐

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	5	1541370	CN	B	2010-05-05	FLEXIWORLD TECHNOLOGIES, INC.		☐
	6	101834892	CN	A	2010-09-15	FLEXIWORLD TECHNOLOGIES, INC.		☐
	7	101833430	CN	A	2010-09-15	FLEXIWORLD TECHNOLOGIES, INC.		☐
	8	101825996	CN	B	2012-05-09	FLEXIWORLD TECHNOLOGIES, INC.		☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	BISDIKIAN, ET AL., "WiSAP: A wireless personal access network for handheld computing devices," Personal Communications, IEEE [see also IEEE Wireless Communications] , vol.5, no.6, pp. 18-25, Dec 1998.	☐
	2	HAYNIE, Dave, The Zorro III Bus Specification, March 20, 1991, 60 pages, Document Revision 1.10, Commodore-Amiga, Inc.	☐
	3	HOUSE, ET AL., An on-line communication print service for the demanding client. In Proceedings of the 11th Annual International Conference on Systems Documentation (Waterloo, Ontario, Canada, October 05-08, 1993). SIGDOC '93. ACM, New York, NY, 135-139.	☐
	4	MILLER, "Mapping Salutation Architecture APIs to Bluetooth Service Discovery Layer," 01 July 99, Version 1.0.	☐
	5	SCHULYER ET AL., Solutions to Sharing Local Printers: LAN Systems Inc., LANSpool, $395 per Server, PC Week October 1989, Vol. 6, No. 39, pages 75(2), see entire document.	☐

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	6	Screenshots from Microsoft® NT™, Figures 5-7, 1998, 3 pages.	☐
	7	Screenshots from Microsoft® Word 2000, Figures 1-4, 1999, 4 pages.	☐
	8	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Notice of Allowance regarding U.S. Patent Application Serial No. 11/933,005; mailing date 12 JAN 2011; 44 pages.	☐
	9	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Notice of Allowance regarding U.S. Patent Application Serial No. 11/933,031; mailing date 09 MAY 2012; 60 pages.	☐
	10	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Notice of Allowance regarding U.S. Patent Serial No. 13/108,922; mailing date 24 MAY 2013; 24 pages.	☐
	11	U.S. PATENT AND TRADEMARK OFFICE (Esther BENOIT, Examiner); Office Action regarding U.S. Patent Application Serial No. 12/204,689; mailing date 22 FEB 2011; 33 pages.	☐
	12	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Office Action regarding U.S. Patent Application Serial No. 13/108,922; mailing date 15 MAR 2012; 40 pages.	☐
	13	U.S. PATENT AND TRADEMARK OFFICE (David S. CAMMACK, Examiner); Office Action regarding U.S. Patent Application Serial No. 13/108,925; mailing date 26 MAR 2012; 30 pages.	☐
	14	US RECEIVING OFFICE; International Search Report regarding PCT Patent Application No. PCT/US01/43796; 24 APRIL 2002; 3 pages.	☐
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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Peter D. Sabido/	Date (YYYY-MM-DD)	2013-06-05
Name/Print	Peter D. Sabido	Registration Number	50,353

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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No documents available for this priority number.

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Local-printing providing on customer computer

Inventor(s): HARMTZ MARK JUSERVE [US]; VANDVILER MARK WENY [US]; KART KUISS EDVODE [US] ± (MARK JUSERVE HARMTZ, ; MARK WENY VANDVILER, ; KUISS EDVODE KART)

Applicant(s): INT BUSINESS MACHINE CO [US] ± (INTERNATIONAL BUSINESS MACHINE CO, ; IBM CORP)

Classification: - international: ***B41J29/38; G06F13/00; G06F3/12;*** (IPC1-7): G06F17/00; G06F3/12
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Abstract of corresponding document: GB2332764 (A)

A print rendering server system in a networked computing environment performs many of the most computationally intensive tasks in the overall print process for a plurality of resource limited clients. In response to a print request from a client, a print job in a print ready format is produced by the print server system and is then sent back for local printing at the resource limited client system. Also disclosed is a thin client running applications making print requests using graphics API calls and further comprising a device independent format (DIF) generator for generating a DIF datastream from the graphics API calls, and a DIF sender for routing the DIF datastream and printer information via a network to a print rendering server.; The advantages of the invention are that it allows a thin client to remain of limited physical resources (memory, hard disk space, processing power etc.) without the need to process printer spooling and control functions, or maintain locally a large set of resources (such as drivers) for different types of printer.

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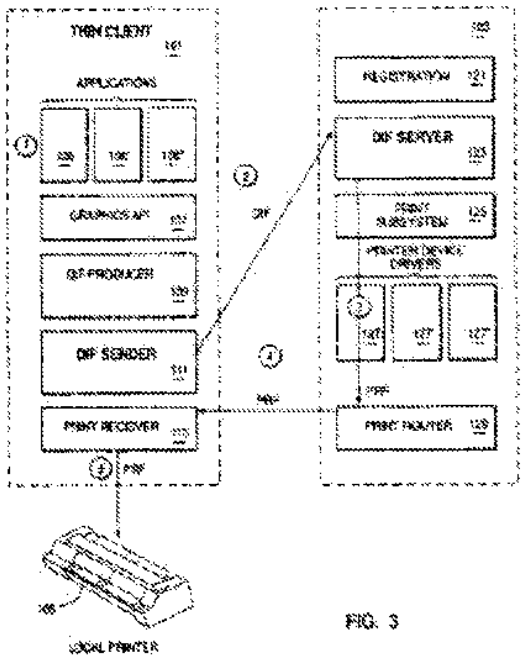


FIG. 3

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D1

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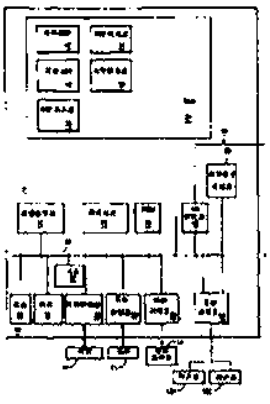
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[32]97.11.19 [33]US [31]974418
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代理人 于 静

权利要求书5页 说明书10页 附图页数4页

[54]发明名称 在瘦客户机上提供本地打印

[57]摘要

网络计算环境中的打印格式转换服务器系统，用于为多个资源有限的客户执行整个打印过程中许多最繁重的计算的任务。响应来自于客户的打印请求，生成打印准备格式的打印作业，并发送回去由资源有限的客户系统执行本地打印。



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权 利 要 求 书

1、对资源有限的客户系统进行本地打印的方法，包括步骤：

在客户系统，从用于本地打印的常驻应用程序接收打印请求；

通过网络向打印格式转换服务器发送打印请求；

在打印格式转换服务器，将打印请求转换为与设备相关的数据流；

通过网络将与设备相关的数据流发送给客户系统本地的打印机；

接收与设备相关的数据流以在本地打印机进行打印。

2、根据权利要求 1 所述的方法，其特征在于，来自于常驻应用程序的打印请求被作为图形 API 调用集接收，方法进一步包括在客户系统中将图形 API 调用转换为与设备无关的格式的步骤。

3、根据权利要求 2 所述的方法，其特征在于，打印请求包括与设备无关的格式的打印作业，作业属性，打印机属性和路由信息。

4、根据权利要求 3 所述的方法，其特征在于，路由信息包括没有直接连接到客户系统的本地打印机的地址。

5、根据权利要求 4 所述的方法，其特征在于，本地打印机与网络直接相连。

6、根据权利要求 1 所述的方法，其特征在于，发送给打印格式转换服务器的打印请求包括具有客户系统地址的路由信息以使在客户系统执行接收的步骤。

7、根据权利要求 1 所述的方法，其特征在于，还包括控制与设备相关的数据流以避免在接收设备发生本地假脱机。

8、根据权利要求 1 所述的方法，其特征在于，客户系统通过无线传输装置与网络相连。

9、一种计算机网络，包括：

多个资源有限的客户系统，其中至少一个包括：

多个应用程序，用于通过图形 API 调用周期性地产生打印请求；

DIF 生成器，用于从接收的图形 API 调用生成与设备无关的格式的

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数据流；

DIF 发送器，用于通过网络向打印格式转换服务器发送与设备无关的格式的数据流和打印机及路由信息；

打印格式转换服务器，用于将与设备无关的数据流转换为与设备相关的数据流；

打印路由器，用于根据路由信息，通过网络向打印机发送与设备相关的数据流；

打印接收器，用于接收耦合到打印机的与设备相关的数据流；及

打印机，用于根据与设备相关的数据流进行打印。

10、根据权利要求 9 所述的网络，其特征在于，打印机信息包括作业属性和打印机属性信息。

11、根据权利要求 9 所述的网络，其特征在于，DIF 生成器和 DIF 发送器位于第一客户系统，打印接收器位于第二客户系统。

12、根据权利要求 9 所述的网络，其特征在于，DIF 生成器和 DIF 发送器位于第一客户系统，打印接收器位于与网络直接相连的打印机处。

13、根据权利要求 9 所述的网络，其特征在于，DIF 生成器、DIF 发送器和打印机接收器位于第一客户系统。

14、根据权利要求 9 所述的网络，其特征在于，打印接收器还包括用于与设备相关的数据流的控制装置，以避免在接收设备发生本地假脱机。

15、根据权利要求 9 所述的网络，其特征在于，至少一个客户系统通过无线传输装置与网络相连。

16、根据权利要求 9 所述的网络，其特征在于，客户系统是网络计算机，其特征是具有一个客户映象，包括 DIF 生成器和 DIF 发送器，在与网络相连是由服务器下载。

17、根据权利要求 9 所述的网络，其特征在于，还包括一个全局目录服务，用于在网络中注册打印格式转换服务器。

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18 、一种包括处理器，存储器和网络连接器的打印格式转换服务器，包括：

用于通过网络从发送请求的客户系统接收与设备无关格式的数据流和打印机及路由信息的装置；

打印机驱动程序，用于将与设备无关的数据流转换为与设备相关的数据流；

打印路由器，用于根据路由信息，通过网络向打印机请求的客户系统发送与设备相关的数据流。

19 、根据权利要求 18 所述的服务器，其特征在于，包括一组打印机驱动程序，每个用于为不同的打印机将与设备无关的数据流转换为与设备相关的数据流。

20 、根据权利要求 18 所述的服务器，其特征在于，打印机信息包括作业属性和打印机属性信息。

21 、根据权利要求 18 所述的服务器，其特征在于，还包括注册装置，用于在网络的全局目录中注册服务器。

22 、根据权利要求 21 所述的服务器，其特征在于，还包括查询装置，用于为另一个支持打印转换的打印格式转换服务器查询全局目录服务，以查询所希望的打印机。

23 、一种资源有限的客户系统，包括处理器，存储器和网络连接器，包括：

多个应用程序，用于通过图形 API 调用周期性地产生打印请求；

DIF 生成器，用于从接收的图形 API 调用生成与设备无关的格式的数据流；以及

DIF 发送器，用于通过网络向打印格式转换服务器发送与设备无关的格式的数据流和打印机及路由信息。

24 、根据权利要求 23 所述的客户系统，其特征在于，还包括一个打印接收器，用于从打印格式转换服务器接收与设备相关的数据流。

25 、根据权利要求 24 所述的客户系统，其特征在于，还包括一个

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本地打印机，用于根据与设备相关的数据流进行打印。

26、根据权利要求 24 所述的客户系统，其特征在于，打印接收器还包括一个用于与设备相关的数据流的控制装置以避免本地假脱机。

27、根据权利要求 23 所述的客户系统，其特征在于，网络连接器还包括一个用于将客户系统连接到网络上的无线传输装置。

28、根据权利要求 23 所述的客户系统，其特征在于，客户系统是网络计算机，其特征是具有一个客户映象，包括 DIF 生成器和 DIF 发送器，由与网络相连的服务器下载。

29、位于计算机可读存储器中用于打印转换服务的计算机程序产品，包括：

用于通过网络从发送请求的客户系统接收与设备无关的格式的数据流和打印机及路由信息的装置；

打印机驱动程序，用于将与设备无关的的数据流转换为与设备相关的数据流；

打印路由器，用于根据路由信息，通过网络向请求打印的客户系统所要求的打印机发送与设备相关的数据流。

30、根据权利要求 29 所述的产品，其特征在于，包括一组打印机驱动程序，每个用于为不同的打印机将与设备无关的数据流转换为与设备相关的数据流。

31、根据权利要求 29 所述的产品，其特征在于，还包括注册装置，用于在网络的全局目录中注册服务器。

32、根据权利要求 31 所述的产品，其特征在于，还包括查询装置，用于为另一个支持打印转换的打印格式转换服务器查询全局目录服务，以查询所希望的打印机。

33、计算机可读介质中的计算机程序产品，包括：

用于接收图形 API 调用的打印请求的装置；

DIF 生成器，用于从接收的图形 API 调用生成与设备无关的格式的数据流；

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DIF 发送器，用于通过网络向打印格式转换服务器发送与设备无关的格式的数据流和打印机及路由信息。

34 、根据权利要求 33 所述的产品，其特征在于，还包括一个打印接收器，用于从打印格式转换服务器接收与设备相关的数据流。

35 、根据权利要求 34 所述的产品，其特征在于，打印接收器还包括一个用于与设备相关的数据流的控制装置以避免本地假脱机。

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说　　明　　书

在瘦客户机上提供本地打印

本发明一般涉及信息处理系统网络的领域。尤其涉及在具有有限资源所连接的系统（此处有时被称为瘦客户机）上提供打印支持的方法和系统。

众所周知，可以向计算机系统提供一台打印机，以作为计算机系统的输出提供永久记录的一种方法。但是由于具有不同的接口的打印机的数量和具有不同的种类的文档格式的数量已经增加了，因此使得在典型的计算机环境下提供完全打印支持变得复杂起来。计算机和打印机硬件和软件的设计者已经尝试通过使用一个或多个打印驱动程序将应用程序的开发者与环境及设备的具体属性无关。尽管他们取得了很大成功，但是却相应地增加了对打印驱动程序的附加要求和也增加了用于系统资源的相关软件。

最近的一种降低网络计算机系统的成本的努力是网络计算机或称为“瘦客户机”的开发。这些设备的特征是，与当前的个人计算机相比，具有有限的本地系统资源并且更大程度地依赖于大型系统。

对于具有有限资源的连接系统很难实现完全的本地打印支持功能，因为需要大容量的随机访问存储器和磁盘空间，并且要有适当的处理器速度，网络计算机的开发也复杂起来。一个典型的打印驱动程序仅需要建立 2 兆字节的磁盘空间。当驱动程序和其所需的系统部件，例如假脱机系统、光栅分块/日志代码及端口驱动程序一起安装时，打印驱动程序就占用了大量的用作代码空间的系统存储区。当驱动程序进行打印作业时，打印驱动程序可以使用 1 到 64 兆位的数据存储器来光栅扫描页面。用于降低存储器需求的技术，例如分块打印技术，使驱动程序变得复杂并增加了驱动程序的开发时间。而且这些技术只针对与存储器的使用有关的处理器及磁盘应用。当使用打印机时，必须提供磁盘假脱机。

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根据作业的大小、打印作业的个数和使用的打印语言，假脱机系统所需要的磁盘空间从几兆字节到几百兆字节不等。

显然，这种庞大的需求使得尤其需要提供可靠的建立在瘦型或限定资源客户机基础上的本地打印支持。在当今的信息处理系统中，基于具有有限资源的系统的本地打印要么不存在，或是有限的，或是复杂的，要么强调资源。现有技术中的一种解决方案是不允许在瘦客户机上进行本地打印。这就迫使这些系统的用户使用服务器打印或者人工地将文件加载到其它系统进行打印。这种方法没有本地打印那样方便。

现有技术中的另一种解决方案是，通过减少对于一个或多个简单设备的支持及限制假脱机和/或限制打印能力例如仅打印文本，来限制本地打印的范围和功能度。这种方法太受限制不适用于通用。

最常用的现有技术解决方案是，象与网络连接的个人计算机上的情况那样，增加要求本地打印的瘦客户机上的资源并在客户机上转换打印文件。这种方法增加了每个系统的成本和复杂度，使由网络计算机系统的优势所带来的成本节约被破坏。

因此，需要在网络计算机环境中提供一种经济的、全功能本地打印功能。

本发明的一个目的是为资源受限制的客户机上提供本地打印。

本发明的另一个目的是避免增加由本地打印供给客户机所需的资源。

本发明的另一个目的是在瘦客户机的本地打印机上打印所有种类的文本。

本发明的另一个目的是显著地减少通常由其它系统任务使用对本地打印所需的系统资源。

本发明的另一个目的是支持各种位于瘦客户机附近或与其相连的本地打印机类型。

本发明再一个目的是充分地发挥与瘦客户机相连的本地打印机的功能。

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本发明的这些和其它目的是通过使用一个打印格式转换服务器系统来执行整个打印处理中最繁重的计算任务。生成打印准备格式的打印作业并发送回去由资源有限的客户机进行本地打印。

处理在客户系统开始，其中从用于进行本地打印的常驻应用程序接收打印请求。通过一个网络将打印请求发送到打印格式转换服务器。在打印格式转换服务器，打印请求被转换为打印准备格式的打印作业。通过网络将处于打印准备格式的打印作业发送回客户系统的本地打印机。因此不需将瘦客户机的大量系统资源投入打印子系统就可以在本地打印机打印打印作业。

通过参考附图和以下的描述，将更容易理解本发明的目的、特征和优点。

图 1 为根据本发明的教导的计算机系统的配置图。

图 2 为现有技术中用于打印的一些软件的系统方框图。

图 3 为根据本发明的教导配置的瘦客户机和服务器的方框图。

图 4 为本发明处理的方框图。

本发明可以运行在多种计算机或具有各种操作系统的计算机集成系统中。计算机例如可以是手持计算机装置，网络计算机，个人计算机，小型计算机，大型计算机或运行在其它计算机的分布式网络中的一台计算机。尽管计算机的具体选择仅受处理器速度和磁盘存储容量需要的限制，IBM PC 系列的计算机也可以应用于本发明。IBM 个人计算机可以运行的一个操作系统是 IBM 的 OS/2 Warp 4.0 。作为选择，计算机系统可以是运行在 AIX （ TM ）操作系统下的 IBM RISC System/6000(TM)系列计算机。其它计算机和操作系统是已知的。

在图 1 中，框图示出计算机 10 包括系统单元 11 ，键盘 12 鼠标 13 和显示器 14 。系统单元 11 包括系统总线或多个系统总线 21 ，用于将各种部件连接起来，及使各部件之间进行通信。微处理器 22 与系统总线 21 相连并由也连接到总线 21 上的只读存储器（ ROM ） 23 和随机访问存储器（ RAM ） 24 支持。IBM PC 系列计算机的微处理器是包

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括 386 、 486 或奔腾微处理器的英特系列微处理器之一。但是，其它微处理器包括但不限于摩托罗拉系列的微处理器如 68000 、 68020 或 68030 微处理器及各种精简指令集计算机（ RISC)微处理器如 IBM 制造的 PowerPC 芯片。其它的由惠普、太阳、摩托罗拉和其它公司制造的 RISC 芯片也可以用在具体计算机中。

ROM 23 包括用于控制例如用于处理器和磁盘驱动程序及键盘间交互的基本硬件操作的基本输入输出系统（ BIOS ）。 RAM 24 是装入操作系统和应用程序的主存储器。存储器管理芯片 25 与系统总线 21 相连并控制直接存储器访问操作，包括在 RAM 24 和硬盘驱动程序 26 及软盘驱动程序 27 之间传输数据。 CD ROM 32 也连接到系统总线 21 上，用于存储大量数据如多媒体程序或图象。

各种 I/O 控制器也与系统总线 21 相连：如键盘控制器 28 ，鼠标控制器 29 ，视频控制器 30 及音频控制器 31 。其中键盘控制器 28 用于为键盘 12 提供硬件接口，鼠标控制器 29 用于为鼠标 13 提供硬件接口，视频控制器 30 用于为显示器 14 提供硬件接口，音频控制器 31 用于为扬声器 15 提供硬件接口。 I/O 控制器 40 如令牌环网适配器使得可以通过网络 46 与其它相似配置的数据处理系统进行通信。

可以从本发明受益的设备类型之一为无线设备如掌上型计算机。尽管其许多部件与上述对个人计算机的描述相似，尺寸和容量比个人计算机小，这些设备一般通过在射频（ RF ）范围通过蜂窝或数字传输，而不是通过同轴电缆或其它电缆与网络相连。其它传输方法如红外或超声传输对于熟练的技术人员是已知的，但不经常用。另外，这些设备中的一些缺乏例如鼠标和键盘等输入设备，而具有其它的例如触感输入系统。

本发明的一个优选实施例是常驻在按照上述方式配置的一个或多个计算机系统的随机访问存储器 24 中的指令集 48 － 52 。在计算机系统要求调用指令集之前，指令集可以存放在另外的计算机可读存储器中，例如存储在硬盘驱动程序 26 或者可装拆的存储器如可以在 CD-ROM

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32 中使用的光盘或可以在软盘驱动程序 27 中使用的软盘中。另外，指令集可以存储在另外的计算机的存储器中，并且在用户要求时通过局域网或因特网等广域网将计算机可读介质上的信息发送出去。熟练的技术人员将能够理解指令集的物理存储物理地改变以电、磁或化学的方式存储它们的介质。尽管本发明中为了方便描述的原因用指令、符号、字符等来描述，读者应理解所有这些和相似的术语应与适当的物理器件相关联。

另外，本发明通常用可以与操作员相联系的术语描述。尽管所执行的操作可以响应用户输入，在构成本发明的任何操作中都不需要有操作员的动作；本发明的操作是用于处理电子信号以生成其它电子信号的机器操作。

个人计算机的一个代表性的配置示于图 2 。该配置显示出在现有技术打印方法中一些主要软件模块。应用程序 76 向图形 API 层 77 发送打印调用，其中打印请求被转换为可以被打印子系统理解的格式。打印子系统可以理解的典型的格式是由 OS/2 Warp 操作系统所支持的图形对象内容体系结构（ GOCA ）。一般来讲，用于打印子系统的格式对于每个操作系统是唯一的。打印子系统 78 为打印请求生成、假脱机及调度打印作业。打印作业包括打印请求信息。打印子系统 78 为目标打印机 81 选择正确的设备驱动程序 79 。设备驱动程序 79 使用作业和打印机属性为打印机生成并向打印机发送一个打印准备格式（ PRF ）的打印作业。

这种现有技术体系结构对于瘦客户机是有害的。如同在背景技术中所描述的那样，打印子系统 78 和打印机驱动程序 79 的需求可能很大，尤其当要打印大量复杂的打印作业时。

本发明提供了另一种解决方案。通过使用打印服务器为网络中的多种打印机生成数据流，包括那些附加到瘦客户机上的大量打印系统要求被转移到服务器。从而限制了对每个瘦客户机进行打印支持的再次投资。

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在初始化时期，客户在初始设置时仅根据打印机的设备名称查询服务器端用于缺省作业和打印机属性的打印系统并将它们进行本地存储。然后用户可以通过用户界面为他们的本地打印修改这些属性。在打印作业的提交期间，客户将作业和打印机属性连同与设备无关的打印文件和客户路由信息发送到服务器以将数据转换为与设备相关的数据流，即打印准备格式（PRF）。

服务器使用与作业一起提交的作业和打印机属性为适当的打印机设备转换这种与设备无关的打印文件数据。并使用客户路由信息把数据发送回客户端的小接收器。客户路由信息例如为互联网 IP 地址。

当打印机忙时客户监测服务器以避免本地假脱机操作并将数据输出给本地打印机。客户系统分配存储区以保持来自于服务器的打印数据。客户端所分配的存储区容量是可配置的。当客户机在分配的存储区填充满打印数据时，客户机停止接收来自于服务器的数据，直到在本地打印机已经打印了存储器中的一些或所有数据。接着，客户机重新开始从服务器接收数据。

参考图 3，瘦客户机 101 通过网络链路 102 与打印格式转换服务器 103 相连。网络链路 102 可以是一个硬件链路，如包括局域网，例如令牌环网、以太网、红外、RF 或微波链路等的电缆。用于本发明目的的瘦客户机是与任何网络连接的客户系统，即使是暂时地相连的客户系统，其中该客户系统具有有限的资源，或是用户不选择作为用于打印任务的资源。根据本发明，瘦客户机 101 可以事先配置为使用主打印格式转换服务器 103 或查询整个目录以定位主打印格式转换服务器。虽然熟练的技术人员会理解在本发明中需要使用通常应用于网络通信中的协议堆、网络适配器等设备，但是为了简单起见，在这里省略其说明。

在瘦客户机 101，应用程序 106、106'及 106''是常驻内存的。瘦客户机的用户可以通过计算机用户接口访问这些应用程序并使应用程序发布一个或多个打印请求。图形 API 107 是可以用于转换文本或图形的命令集。

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DIF 生成器 109 是由瘦客户机端的图形 API 层 107 调用的部件，用于从由应用程序所调用的图形 API 生成与设备无关的格式（DIF）数据流。与设备无关的打印文件的一个例子是图形对象内容体系结构（GOCA）元文件。有关 GOCA 的信息请见 Graphics Programming Interface Programming Guide,Order No.G25H-7106-00,IBM 公司出版。

DIF 生成器 109 将 DIF 数据流传送给 DIF 发送器 111。DIF 发送器 111 把 DIF 数据流发送给打印格式转换服务器 103 的 DIF 服务器 123。DIF 数据流包括作业属性、打印机属性及用于作业的路由信息。

读者应该注意，打印格式转换服务器 103 的注册部件 121 先于打印请求的开始已经使用例如 Lightweight directory Access Protocol(LDAP)协议注册了具有全部目录服务的设备转换服务。LDAP 目录服务可以由瘦客户机所使用以找到一个适于执行打印转换服务的合适的服务器。打印格式转换服务器 103 使用目录服务以通告它们所支持的打印机和打印机驱动程序。客户也可以使用 IP 地址在支持所需的打印驱动程序的服务器中选择最接近的打印格式转换服务器。

DIF 服务器 123 接收与设备无关的格式的数据流，并使用附带的作业属性、打印机属性及路由信息将作业提交给打印子系统 125 以生成打印准备格式（PRF）数据流。打印子系统 125 是包括负责假脱机和发布打印作业的部件的设备驱动程序。打印机设备驱动程序 127、127'和 127''是可以生成打印准备格式（PRF）数据流的打印格式转换服务器 103 上的部件。打印机设备驱动程序的例子可以是页面描述语言（PostScript）或打印控制语言（PCL）打印机设备驱动程序。

打印路由器 129 是打印格式转换服务器 103 上的部件，用于将打印准备格式（PRF）数据流发送给在所提交的打印作业例如返回给瘦客户机 101 的作业的路由信息中所指定的目的地。

瘦客户机上的打印接收器部件 113 接收打印准备格式（PRF）数据流并将其发送到本地连接的打印机 105 上。打印接收器部件 113 包括

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分配存储区监视器，以在控制的方式下接收 PRF 数据流以避免本地假脱机。在当前发明的一些实施例中，打印接收器可以在其它系统中暂时存储数据。在本发明的一些实施例中本地打印机没有实际上连接到具体的瘦客户机上，但可以连接到附近的瘦客户机或是直接与网络连接的打印机。在这些情况下，打印接收器部件 113 在请求瘦客户机 101 时是不需要的。

下面将参考图 4 的流程图进一步描述根据本发明的打印一个打印作业的处理。

在步骤 201，在瘦客户机的一个应用程序中，终端用户选择一个本地打印机，以后称为“目标打印机”，以在该打印机上打印信息。然后在步骤 203，应用程序发出图形 API 调用以绘出文本和图形在目标打印机上打印信息。 0S/2 的图形 API 调用例子是用 GpiCharStringAt() 转换文本，用 GpiPolygons()转换多边形。 JAVA 图形对象的图形 API 调用的例子是用 drawCharacters 转换文本用 drawPolygon 转换多边形。

在步骤 205， DIF 生成器将这些调用转换为与设备无关的格式（ DIF ）。在优选实施例中， DIF 生成器通过代码和查表在图形 API 和结果 DIF 命令之间转换。在步骤 207， DIF 生成器将与设备无关的格式的打印请求发送给 DIF 服务器。该打印请求包括：（ 1 ）用户所选择的打印信息的打印选项，即打印的份数和方向，以后称之为“作业属性”；（ 2 ）目标打印机的制造型号，以后称之为“设备 id，如“ IBM Network Printer 12 ”；（ 3 ）目标打印机的设备选项，如打印存储器的容量，以后称之为 “打印机属性”；（ 4 ）通知服务器目标打印机的地址的路由信息；（ 5 ）与设备无关的数据，即由图形 API 调用所生成的 DIF 文件。根据操作系统已知的打印协议将路由信息和打印机属性与打印作业一起传输给打印格式转换服务器。协议的一种例子可以是名称－值对，如转换服务器所接收的协议可以是 JOBNAME = Calendar Page, DATATYPE = DIF, ORIENTATION = PORTRAIT,

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MEMORY = 4MB, FORM = LETTER, ROUTEINFO = 9.53, 255, 255 .

在步骤209， DIF服务器验证来自于瘦客户机的打印请求并拒绝或接受打印请求. 如果不支持 DIF 格式或者提交的客户没有授权向 DIF 提交作业，则 DIF 服务器可能拒绝请求. 在步骤 211 ，如果是上述任一种情况，则 DIF 服务器拒绝请求并向客户发一个拒绝的通知.

如果服务器接受请求，则在步骤213，服务器使用设备 id 判定它是否支持目标打印机或其它 DIF 服务器是否支持该目标打印机. 如果服务器支持该目标打印机，则它处理请求. 否则，服务器通过使用例如 Lightweight directory Access Protocol(LDAP) 协议发出在全局目录上按属性查找，以便找出另一个能支持该目标打印机的 DIF 服务器. 在步骤215，服务器将打印请求转发给 DIF 服务器.

接着，在步骤217，支持该目标打印机的 DIF 服务器调用打印机子系统. 打印子系统为打印请求生成一个打印作业、并进行假脱机和调度. 打印作业包含打印请求信息，即作业属性、打印机属性、路由信息和 DIF 文件. 在步骤221，打印子系统用设备 id 为目标打印机选择正确的设备驱动程序. 在步骤 223 ，设备驱动程序使用作业和打印机属性，生成并发送打印准备格式（ PRF ）的打印作业. 在步骤225，设备驱动程序把 PRF 作业发送到打印路由器. PRF 包括目标打印机用来打印该作业的各种命令和数据，页面描述语言（ postscript ）就是 PRF 的一个例子.

在步骤227，打印路由器利用打印作业中的路由信息， 以 PRF 表示的打印作业发送给瘦型客户机的打印接收器. 在步骤231，打印机接收器接收具有 PRF 的打印作业. 最后，在步骤233，打印机接收器发送作业并在目标打印机上打印之.

通过在打印格式转换服务器为大量需要计算和存储繁重的任务使用相对健全的可用资源，可以限制用于打印的每个网络计算机的资源. 然而，本发明也使得进行本地打印十分方便，而这些本地打印在基于几乎

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纯打印服务器的解决方案中是不可能实现的。

本发明十分灵活。通过将路由信息和打印作业传输给打印格式转换服务器，服务器不需将打印准备格式发送回提交作业的瘦客户机以在与瘦客户机相连的本地打印机或任何具体的与打印机队列相关联的打印机上打印。而是，路由信息也可以将打印准备格式指定给一个不同的本地打印机，如与一个办公室同事的计算机相连的打印机。本发明也可以将文档发送给位于另一个地方的计算机或打印机，象传真机一样。另外 PRF 作业可以直接发送给与网络相连的打印机。如熟练的技术人员所知道的那样，打印机可以直接与具有网卡的网络相连，该网卡具有网络地址如因特网地址。为了将打印作业直接发送给打印机，使用包括打印机网络地址的路由信息发送 PRF 作业。

本发明通过内联网在与一个或多个服务器相连的多个网络计算机中找到具体的应用程序。在这种布局中，客户文件不是永久地存储在网络计算机中，服务器中包括客户映象。客户映象即每个客户网络计算机的软件和配置文件在登录时下载到客户网络计算机。该客户映象可以包括图 3 中瘦客户机中的软件模块，但不必包括所有与个人计算机中的定制的打印机子系统相关的打印机软件，但其中大部分被下载到了服务器上。当然，如果所有来自于客户的打印是在与网络直接相连的网络打印机上完成的，则在客户映象中不需打印接收器模块。因此可以更高效地卸载客户映象。

尽管根据具体的实施例对本发明进行了描述，熟练的技术人员将能够理解，本发明可以进行修改以适于在其它环境中使用。例如，尽管上述的发明可以在由软件选择地重新配置或激活的通用计算机中方便地实现，熟练的技术人员将能理解本发明可以用包括尤其用于实现上述发明的具体的装置的硬件、固件或软件固件硬件的组合来实现。因此在不超出所附的权利要求的范围和精神的前提下，可以对本发明进行格式和细节上的修改。

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说 明 书 附 图

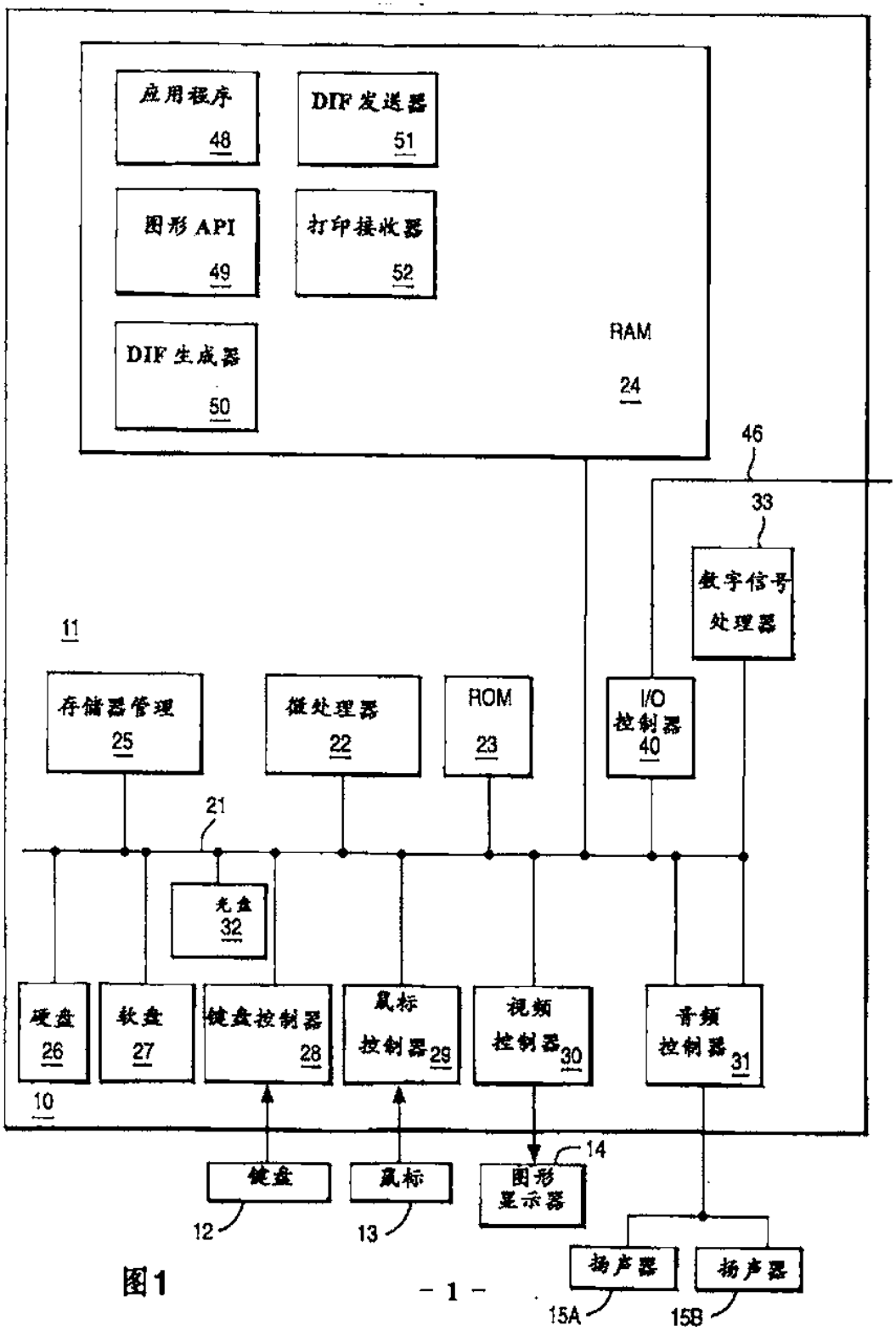


图1

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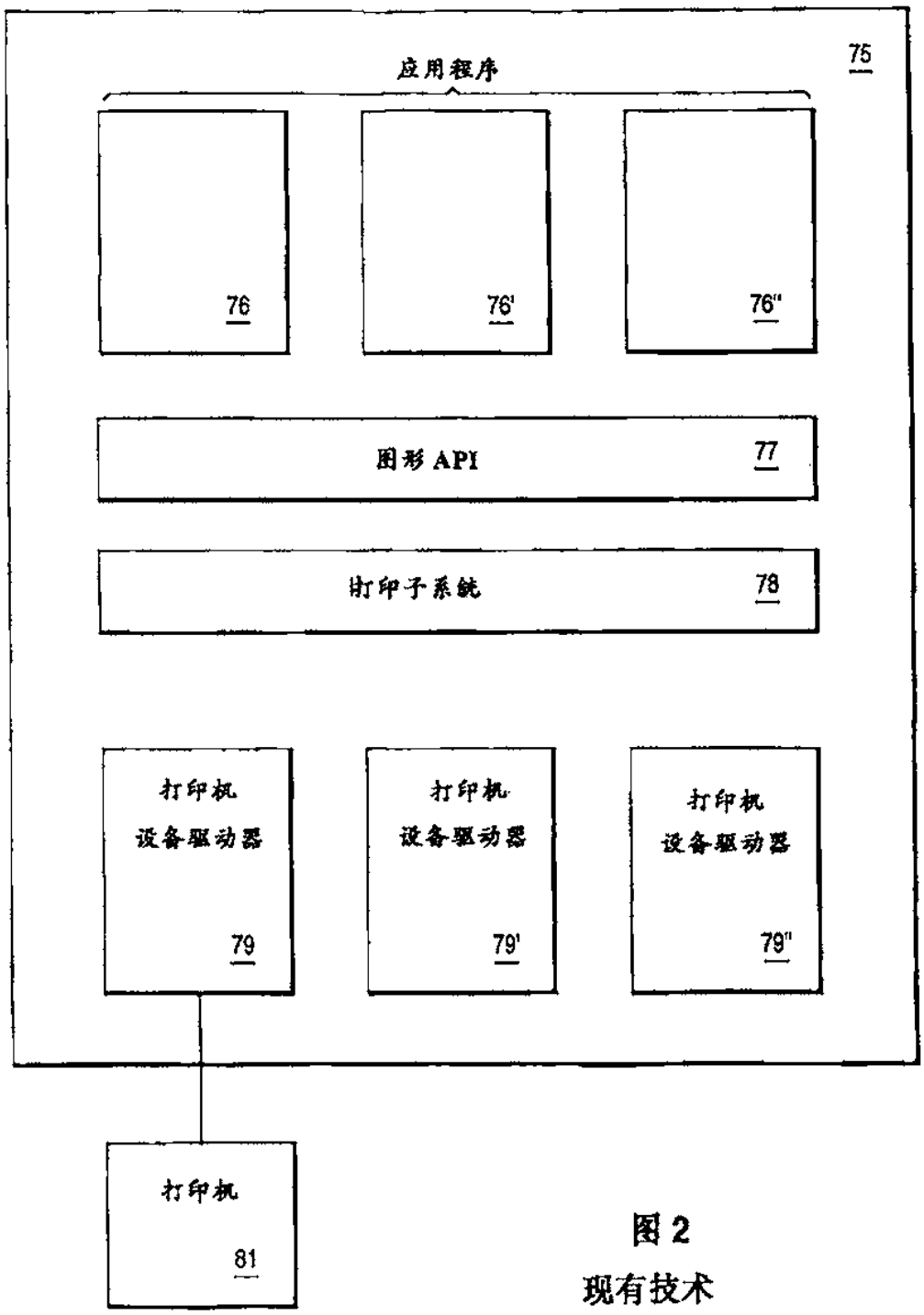


图 2
现有技术

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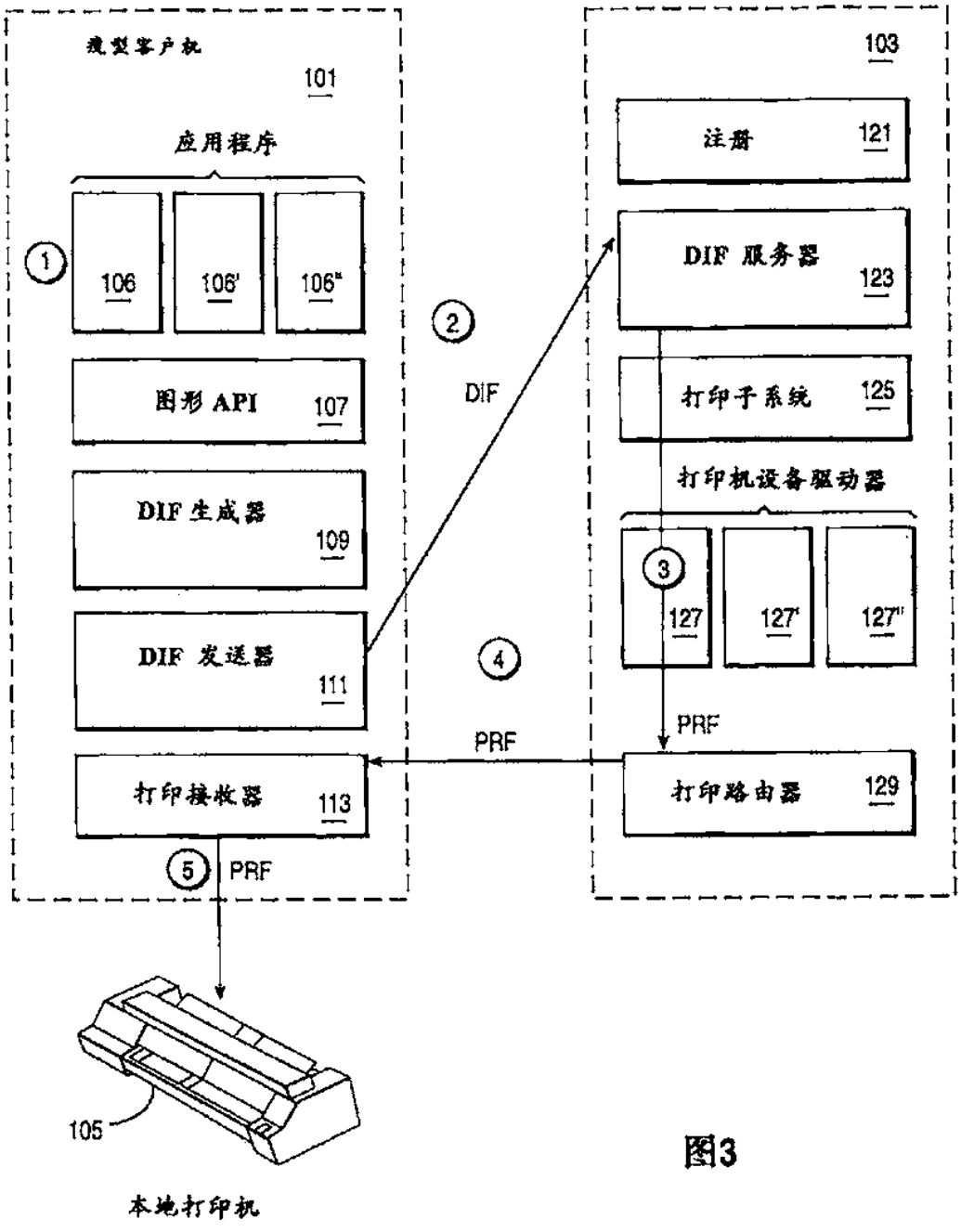


图3

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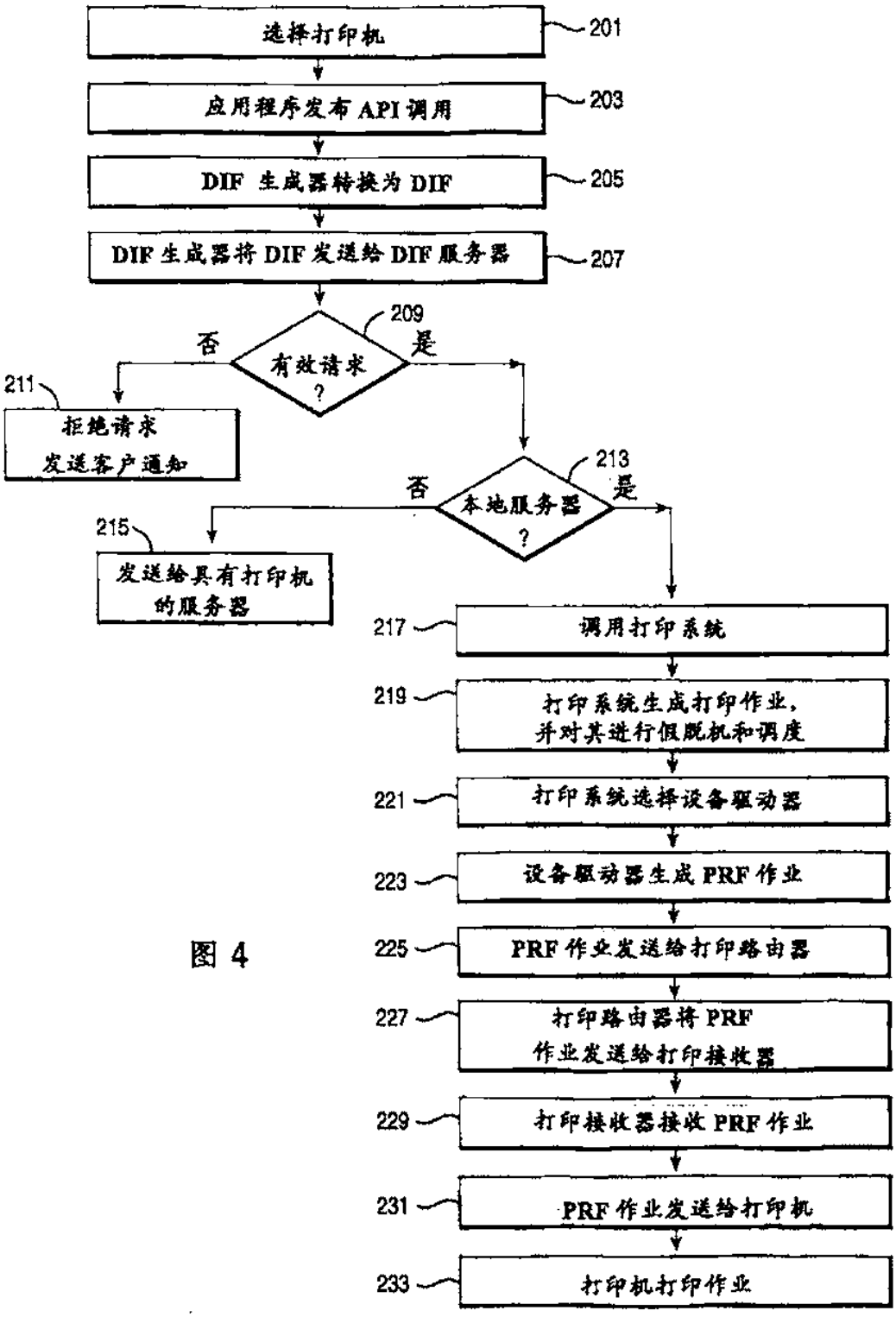


图 4

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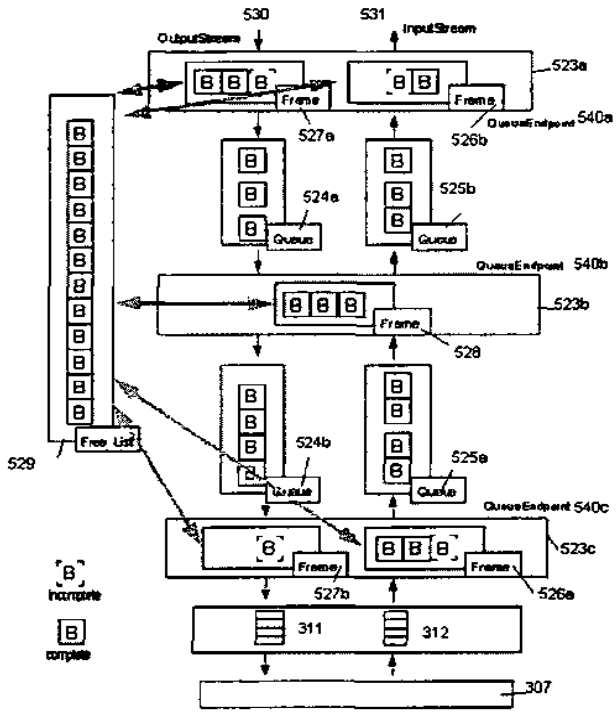
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(54) Title: DATA PATH ENGINE (DPE)



(57) Abstract: A method and apparatus are provided for performing operations on data transferred between a peripheral directly into a data structure stored in a memory. The data structure may comprise a Java or Java-like data structure.

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Data Path Engine (DPE)

Field of the Invention The description provided herein relates to efficient data and information transfers between a peripheral and a memory of a device in general and to efficient data and information transfers between wireless devices running Java or Java-like languages in particular.

Background As access to global networks grows, it is increasingly possible for carriers to offer compelling services to their subscribers. In the case of wireless carriers, the carriers have the ability to reach customers and provide "anytime, anywhere" services. However, a service based revenue model is difficult to implement in portable devices. It may be preferable for carriers to outsource the design of these services. It may behoove carriers, therefore, to choose a design that supports an environment that behaves consistently from one device to another as well as to provide protection from malicious attack such as software viruses or fraud.

Various implementations of a Java byte-compiled object oriented programming language are available from Sun Microsystems, Inc. 901 San Antonio Road Palo Alto, CA 94303 as well as others are well known in the art. Although these implementations may resolve portability and security issues in portable devices, they can impose limitations on overall system performance. First, a semi-compiled/interpreted language, like Java, and an associated virtual machine or interpreter running on a conventional portable power-constrained device can consume roughly ten times more power than a native application. Second, due to Java language and run time environment feature redundancy, Java ported onto an existing operating system requires a large memory footprint. Third, the development of a wireless protocol stack for such a system is very difficult given the real-time constraints, which are inherent in the operation of existing processors. Fourth, execution speed is relatively slow. Fifth, data and programs downloaded to a portable device capable of running Java applications may require significant processing and data handling overhead when interfaced to a processor and/or a main operating system.

In an attempt to solve Java application execution speed limitations, a number of approaches to accelerate Java on embedded devices have been developed, including: software emulation, just-in-time-compiling (JIT), hardware accelerators on existing processor cores, and Java processor cores. Software emulation is the slowest and most power consumptive implementation. JIT provides increased speed by software translation between Java byte-codes and native code, but requires significant amounts of memory to store a cross compiler program and significant processing resources, and also exhibits a time lag between when the program is

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downloaded and when it is ready to executed. Most hardware accelerators on existing processor cores are more or less equivalent to JIT, with similar performance, but increased chip gate count. One of the biggest challenges with hardware accelerators is in the software integration of a required Java virtual machine with a coexisting operating system running on the processor.

Software emulation, JIT, and hardware accelerators cannot provide an optimal level of design integration for embedded devices because they must respect traditional software architecture boundaries. Although it is possible to obtain an advantage over hardware accelerators with Java processor cores, previous solutions are non optimal solutions directed to general-purpose applications, or have been targeted to industrial or control applications which are sub-optimal for wireless or consumer devices.

Referring to Figure 1, there is seen one prior art system architecture, on which a Java virtual machine (VM) is implemented. One factor that plays a critical role in overall system performance and power consumption of previous Java implementations in traditional systems is the boundary between a processor core **190**, peripherals **197**, and software representations **11** of the peripherals **197**. The most common system architecture follows horizontal layers, which provide abstractions to peripherals. In terms of processing resources, the natural split in these layers results in mediocre efficiency. Known Java hardware accelerator solutions that utilize a VM **10**, fail to optimize the path between peripherals **197** and their software representation **11**.

Referring to Figure 2 and other preceding Figures as needed, there is seen control and data paths of a prior art system. System **199** communicates across a wireless network in which a frame of data from an external network is received by peripherals **197**. Until the frame is wrapped into a Java object **191**, the system operates generally in the following steps:

1. A packet of data from an off-chip peripheral **197** (for example a baseband circuit), is received and the packet is stored in a receive FIFO **198** of a processor **190** operating under control of a processor core **196**.
2. The receive FIFO **198** triggers an interrupt service routine, which copies the packet to a serial receive buffer **192** of a device driver associated with the peripheral. The packet is now in the realm of an operating system, which may signal a Java application to service receive buffer **192**. Since the system **199** follows the usual hardware, operating system, virtual machine paradigm, it is necessary to buffer the packet under the control of an operating system device driver to guarantee latency and prevent FIFO **198** overflow.

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3. A Java scheduler is activated to change execution to the Java listener thread associated with the peripheral device.
4. A listener thread, that is active, issues native function calls (JNI) to get data out of the receive buffer **192**, to allocate a block of memory of corresponding size, and to copy the packet into a Java object **191**.

In system **199**, it is apparent why targeting of applications is important. Even if the processor **190** is very fast, since the path followed by the packet is very convoluted, it is not transferred efficiently. While the goal is to get the packet from the FIFO **198** into a Java object **191** as efficiently as possible, the system copies bytes individually to memory at least twice, toggles bus lines continuously throughout the process, and causes excessive switching inside the processor **190** and memories **195** and **194**.

Thus, there exists a need for a new solution that provides efficient processing of data transferred by wireless means. Although various approaches have been developed for handling transmission of data over the wireless medium, they are not optimized for efficient processing of data by a software stack that consists of multiple layers, let alone, by multiple layers of multiple software stacks. There are known to exist in the software arts various software constructs. For example, in the UNIX arts there are Mbuf class constructs, which are known as malloc'ed, multi-chunk-supporting memory-buffers. The memory-buffers may be extended by either appending data to the construct (which may reallocate the last chunk of data to fit the new characters) and/or by adding more pre-allocated chunks of data to the construct (which can be either appended or prepended to the list of buffer chunks). When using software constructs to pass information between layers of a software stack, it is possible that unbounded operations or corruption of information may occur. It is desirable that unbounded operations be avoided when processing data with software stacks, as well as to process and pass the data between software layers efficiently and without corruption.

What is needed, therefore, is a device and methodology, which can improve upon the deficiencies of the prior art.

Summary of the Invention In one embodiment, an apparatus for utilizing information, comprises: a memory, the memory comprising at least one data structure; and a plurality of layers, each layer comprising at least one thread, each thread utilizing each data structure from the same portion of the memory. The apparatus may comprise an application layer and a hardware layer,

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wherein the application layer comprises one of the plurality of layers, wherein the hardware layer comprises one of the plurality of layers, wherein the application layer and hardware layer utilize each data structure from the same portion of memory. At least one of the plurality of layers may comprise a realtime thread. Each data structure may comprise a block object, wherein at least a portion of each block object is comprised of a contiguous portion of the memory. The contiguous portion of the memory may be defined a byte array. The at least one data structure may comprise a block object. The apparatus may comprise a Java or Java-like virtual machine, wherein each thread comprises a Java or Java-like thread, wherein the Java or Java-like thread utilizes the same portion of memory independent of Java or Java-like monitors. The apparatus may comprise interrupt means for disabling interrupts; and a Java or Java-like virtual machine capable of executing each thread, wherein each thread utilizes the same portion of memory after the interrupts are disabled by the interrupt means. All interrupts are disabled before each thread utilizes the same portion of memory. The threads may disable the interrupts via the interrupt means. The information may be received by the apparatus as streamed information, wherein each data structure is preallocated to the memory prior reception of the information. The apparatus may comprise a freelist data structure, wherein each block object is preallocated to the freelist data structure by the apparatus prior to utilization of the information. The apparatus may comprise a protocol stack, the protocol stack residing in the memory, wherein the protocol stack preallocates each block to the freelist data structure. The apparatus further may comprise a virtual machine, the virtual machine utilizing a garbage collection mechanism, the virtual machine running each thread, each thread utilizing the same portion of the memory independent of the garbage collection mechanism. The garbage collection mechanism may comprise a thread, wherein the threads comprise Java-like threads, wherein the threads each comprise a priority, wherein the priority of the Java-like threads is higher than the priority of the garbage collection thread. Each data structure may comprise a block object, and further comprising a freelist data structure and at least one queue data structure, each block object comprising a respective handle, wherein at any given time the respective handle belongs to the freelist data structure or a queue data structure. The apparatus may comprise at least one queue data structure; and at least one frame data structure, each frame data structure comprising an instance of one or more block objects, each block object comprising a respective handle, each queue data structure capable of holding an instance of at least one frame data structure, and each thread using the queue data structure to pass a block

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handle to another thread. The apparatus may comprise a virtual machine, the virtual machine running each thread; at least one queueendpoint, each queueendpoint comprising at least one of the threads; and at least one queue, each queue comprising ends, each end bounded by a queueendpoint, each queue for holding each of data structures in a data path for use by each queuendpoint, wherein each queue notifies a respective queueendpoint when the queue needs to be serviced by the queueendpoint, wherein a queueendpoint passes instances of each data structure from one queue to another queue by a respective handle belonging to the data structure. A queue may notifie a respective queueendpoint upon the occurrence of a queue empty event, queue not empty event, queue congested event, or queue not congested event. The apparatus may comprise a queue status data structure shared by a queue and a respective queueendpoint, wherein the queue sets a flag in the data status structure to notify the respective queueendpoint when the queue needs to be serviced.

In one embodiment, an apparatus for utilizing a stream of information in a data path, may comprise: a memory, the memory comprising at least one data structure, each data structure comprising a pointer; a plurality of layers, the data path comprising the plurality of layers, the stream of information comprising the at least one data structure, each layer utilizing each data structure via its pointer. Each layer may comprise at least one thread, each thread utilizing each data structure from the same portion of the memory. The apparatus may comprise an interrupt disabling mechanism; and at least one queue, each queue disposed in the data path between a first layer and a second layer, the first layer comprising a producer thread, the second layer comprising a consumer thread, the producer thread for enqueuing each data structure onto a queue, the consumer thread for dequeing each data structure from the queue, wherein prior to dequeing and enqueing each data structure interrupts are disabled. The apparatus may comprise a virtual machine, the virtual machine comprising a garbage collection mechanism, the virtual machine running each thread independent of the garbage collection mechanism.

In one embodiment, a system for utilizing data structure with a plurality of threads, may comprise; an interrupt mechanism for enabling and disabling interrupts; a memory, the memory comprising at least one data structure; and a plurality of threads, the plurality of threads utilizing the data structures after disabling interrupts with the interrupt mechanism. The plurality of threads may utilize each of the data structures from the same portion of memory.

In one embodiment, a system for accessing streaming information with a plurality of

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threads, may comprise: a memory; and interrupt means for enabling and disabling interrupts; wherein the plurality of threads access the streaming information from the memory by disabling the interrupts via the interrupt means. The system may comprise a memory, wherein the plurality of threads access the streaming information from the same portion of the memory.

In one embodiment, a method for accessing information in a memory with a plurality of threads, may comprise the steps of: transferring information from one thread to another thread via handles to the information; and disabling interrupts via the threads before performing the step of transferring the information. The method may comprise a step of accessing the information with the plurality of threads from the same portion of the memory.

These as well as other aspects of the invention discussed above may be present in embodiments of the invention in other combinations, separately, or in combination with other aspects and will be better understood with reference to the following drawings, description, and appended claims.

Brief Description of the Drawings

Figure 1 illustrates one prior art system architecture on which a virtual machine (VM) is implemented;

Figure 2 illustrates control and data paths of a prior art system;

Figure 3a illustrates a top-level block diagram architecture of an embodiment described herein;

Figure 3b illustrates an embodiment in which byte-codes are fetched from memory by an MMU, with control and address information passed from a Prefetch Unit;

Figure 3c illustrates an embodiment wherein trapped instruction may be transferred to software control;

Figure 4 illustrates a representation of a software protocol stack;

Figure 5 illustrates an embodiment of a Data Path Engine;

Figures 6a-e illustrate embodiment of various data structures utilized by the Data Path Engine;

Figures 7a-b illustrate embodiments of two subsystems of the Data Path Engine;

Figure 8 illustrates multiple queues interacting with queueendpoints.

Figure 9 illustrates an interaction between FreeList, Frame, Queue, and Block data structures;

Figure 10 illustrates an embodiment of a hardware interface to the Data Path Engine;

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Figure 11 illustrates an embodiment as described herein;

Figure 12 illustrates representation of a transfer of data into a software data structure; and

Figure 13 illustrates an embodiment as described herein.

Description of the Invention

Referring to Figure 3 and other Figures as needed, there is seen a top-level block diagram architecture of an embodiment described herein. In one embodiment, a circuit **300** may comprise a processor core **302** that may be used to perform operations on data that is directly and dynamically transferred between the circuit **300** and peripherals or devices on or off the circuit **300**. In one embodiment, the circuit **300** may comprise an instruction execution means for executing instructions, for example, application program instructions, application program threads, hardware threads of execution, and processor -read or -write instructions. In one embodiment, the data may comprise instructions of a semi-compiled or interpreted programming language utilizing byte-codes, binary executable data, data transfer protocol packets such as TCP/IP, Bluetooth packets, or streaming data received by a peripheral or device and transferred from the peripheral or device directly to a memory location. In one embodiment, after a transfer of data from the peripheral or device to the memory location occurs, operations may be performed on the data without the need for further transfers of the data to, or from, the memory.

In one embodiment, the circuit **300** may comprise a Memory Management Unit (MMU) **350**, a Direct Memory Access (DMA) controller **305**, an Interrupt Controller **306**, a Timing Generation Block (TGB) **353**, a memory **362**, and a Debug Controller **354**. The Debug Controller **354** may include functionality that allows the processor core **302** to upload micro-program instructions to memory at boot-up. The Debug Controller **354** may also allow low level access to the processor core **302** for program debug purposes. The MMU **350** may act as an arbiter to control accesses to an Instruction and Data Cache of memory **373**, to external memories, and to DMA controller **305**. The MMU **350** may implement the Instruction and Data Cache memory **362**access policy. The MMU **350** may also arbitrate DMA **305** accesses between the processor core **302** and peripherals or devices on or off the circuit **300**. The DMA **305** may connect to a system bus (SBUS) **355** and may include channels for communicating with various peripherals or devices, including: to a wireless baseband circuit **307**, to UART1 **356**, to UART2 **357**, to Codec **358**, to Host Processor Interface (HPI) **359**, and to MMU **350**.

In one embodiment, the SBUS **355** allows one master to poll several slaves for read and

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write accesses, i.e., one slave per bus access cycle. The processor core **302** may be the SBUS master. In one embodiment, only the SBUS master may request a read or write access to the SBUS **302** at any time. In one embodiment, peripherals or devices may be slaves and are memory mapped, i.e. a read/write access to a peripheral or device is similar to a memory access. If a slave has new data for the master to read, or needs new data to consume, it may send an interrupt to the master, which reacts by polling all slaves to discover the interrupting slave and the reason for the interruption. The UARTs **356/357** may open a bi-directional serial communication channel between the processor core **302** and external peripherals. The Codec **358** may provide standard voice coding/decoding for the baseband circuit **307** or other units requiring voice coding/decoding. In one embodiment, the circuit **300** may comprise other functionalities, including a Test Access Block (TAB) **360** comprising a JTAG interface and general-purpose input/output interface (GPIO) **361**.

In one embodiment, circuit **300** may also comprise a Debug Bus (DBUS) (not shown). The DBUS may connect peripherals through the GPIO **361** to external debugging devices. The DBUS bus may allow monitoring of the state of internal registers and on-chip memories at run-time. It may also allow direct writing to internal registers and on-chip memories at run time.

In one embodiment, the processor core **302** may be implemented on a circuit **300** comprising an ASIC. The processor core **302** may comprise a complex instruction set (CISC) machine, with a variable instruction cycle and optimizations for executing software byte-codes of a semi-compiled/interpreted language directly without high level translation or interpretation. The software byte-code instructions may comprise byte-codes supported by the VM functionality of a software support layer (not shown). An embodiment of a software support layer is described in commonly assigned U.S. Patent Application S.N. 09/767,038, filed 22 January 2001. In one embodiment, the byte-codes comprise Java or Java-like byte-codes. In one embodiment, in addition to a native instruction set, the processor core **302** may execute the byte-codes. The circuit **300** may employ two levels of programmability/executability; as macroinstructions and as microinstructions. In one embodiment, the processor core **302** may execute macroinstructions under control of the software support layer, or each macroinstruction may be translated into a sequence of microinstructions that may be executed directly by the processor core **302**. In one embodiment, each microinstruction may be executed in one-clock cycle.

In one embodiment, the software layer may operate within an operating system/environment, for example, a commercial operating system such as the Windows® OS or

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Windows® CE, both available from Microsoft Corp., Redmond, Washington. In one embodiment, the software layer may operate within a real time operating system (RTOS) environment such as pSOS and VxWorks available from Wind River Systems, Inc., Alameda, CA. In one embodiment, the software layer may provide its own operating system functionality. In one embodiment, the software support layer may implement or operate within or alongside a Java or Java-like virtual machine (VM), portions of which may be implemented in hardware. In one embodiment, portions of the VM not included as the software support layer may be included as hardware. In one embodiment, the VM may comprise a Java or Java-like VM embodied to utilize Java 2 Platform, Enterprise Edition (J2EE™), Java 2 Platform, Standard Edition (J2SE™), and/or Java 2 Platform, Micro Edition (J2ME™) programming platforms available from Sun Microsystems. Both J2SE and J2ME provide a standard set of Java programming features, with J2ME providing a subset of the features of J2SE for programming platforms that have limited memory and power resources (i.e., including but not limited to cell phones, PDAs, etc.), while J2EE is targeted at enterprise class server platforms.

Referring to Figure 3b and other Figures as needed, there is seen an embodiment in which byte-codes are fetched from memory **362** by a MMU **350**, with control and address information passed from a Prefetch Unit **370**. In one embodiment, byte-codes may be used as addresses into a look-up memory **374** of a Pre Fetch Unit (PFU) **370**, which may be used to store an address of a corresponding sequence of microinstructions that are required to implement the byte-codes. The address of the start of a microinstruction sequence may be read from look-up memory **374** as indicated by the Micro Program Address. The number of microinstructions (Macro instruction length) required may also be output from the look-up memory **374**.

Control logic in a Micro Sequencer Unit (MSU) **371** may be used to determine whether the current byte-code should continue to be executed, and whether the current Micro Program address may be used or incremented, or whether a new byte-code should be executed. An Address Selector block **375** in the MSU **371** may handle the increment or selection of the Micro Program Address from the PFU **370**. The address output from the Address Selector Block **375** may be used to read a microinstruction word from the Micro Program Memory **376**.

The microinstruction word may be passed to the Instruction Execution Unit (IEU) **372**. The IEU **372** may check trap bits of the microinstruction word to determine if it can be executed directly by hardware, or if it needs to be handled by software. If the microinstruction can be executed by

hardware directly, it may be passed to the IEU, register, ALU, and stack for execution. If the instruction triggers a software trap exception, a Software Inst Trap signal may set to true.

The Software Inst Trap signal may be fed back to the Pre Fetch Unit **370**, where it may be processed and used to multiplex in a trap op-code. The trap op-code may be used to address a Micro Program address, which in turn may be used to address the Micro Program Memory **376** to read a set of microinstructions that are used to handle the trapped instruction and to transfer control to the associated software support layer. Figure 3c illustrates how trapped instruction may be transferred to software control.

In one embodiment, byte-codes may comprise a conditionally trapped instruction. For example, depending on the state of the processor core **302**, the conditionally trapped instruction may be executed directly in hardware or may trapped and handled in software.

The present invention identifies that benefits derive when information is passed between wireless devices by a software protocol stack written partly or entirely in a Java or Java-like language. Although an approach could be used to provide a solution implemented partly in native code and partly in a Java or Java-like language, with such an approach it would be very hard to assess overall system effects of design decisions, since only half of the system (native or Java) would be visible. For example, in a Java system using a software virtual machine (VM), use of previous Unix Mbuf constructs would require semaphores and native threads, which would incur extra overhead and complexity. Although in a Unix system it might be possible to process the MBuf constructs above the Java layer, a system designer would have to first figure out a methodology to get the data to the Java level, how to keep Java garbage collection from interfering, and how to guarantee data integrity and contentions. The present invention interfaces with an upper software protocol stack written entirely in Java or Java-like semi-interpreted languages so as to avoid having to cross over native code boundaries multiple times. By using an all Java or Java-like protocol stack, however, various system issues need to be addressed, including, synchronization, garbage collection, interrupts as well as aforementioned instruction trapping.

Referring now to Figure 4, there is seen a representation of a software protocol stack. One embodiment of an upper software protocol stack **422** written in Java or a Java-like language is described in commonly assigned U.S. Patent Application S.N. 09/849,648, filed on 4 May 2001. In one embodiment, the protocol stack **422** may comprise software data structures compatible with the functionality provided by Java or Java-like programming languages. The protocol stack **422** may

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utilize an API **419** that provides a communication path to application programs (not shown) at the top of the stack, and a lower **488** interface to a baseband circuit **307**. The protocol stack also interfaces to a software support layer, the functionality of which is described in previously referenced U.S. Patent Application S.N. 09/767,038, filed on 22 January 2001, wherein is provided a Virtual machine (VM) with no operating system (OS) overhead and wherein Java classes can directly access hardware resources.

The protocol stack **422** may comprise various layers/modules/profiles (hereafter layers) with which received or transmitted information may be processed. In one embodiment, the protocol stack **422** may operate on information communicated over a wireless medium, but it is understood that information could also be communicated to the protocol stack over a wired medium. In other embodiments it is understood that the invention disclosed herein may find applicability to layers embodied as part of other than a wireless protocol stack, for example other types of applications that pass information between layers of software, for example, a TCP/IP stack.

Referring now to Figure 5, and any other Figures as needed, there is seen a representation of an embodiment of a Data Path Engine (DPE) **501**. As described herein, the DPE **501** passes information between one or more layers **523a-c** of a protocol stack **422.** The DPE **501** provides its functionality in a protocol independent manner because it is possible to decouple the management of memory blocks used for datagrams from the handling of those datagrams. Hence, the function of interpreting protocol specific datagrams is delegated to the layers.

The present invention identifies that enqueing and dequeing information from an information stream for use by different software layer threads of a protocol stack preferably should occur in a bounded and synchronized manner. To provide predictability to potentially unbounded operations that may result from an all Java or Java-like solution, the present invention disables interrupts when enqueing or dequeing information to or from software layers via queues.

The DPE **501** comprises certain data structures that are discussed herein first generally, then below, more specifically. The DPE **501** instantiates the whole DPE instance (for example, QueueEndpoints, Queues, Blocks, FreeList, that will be described below in further detail) at startup. In one embodiment, the DPE **501** comprises one or more receive and transmit queues **524a-b**, **525a-b** as may be specified at startup by the protocol stack **422**. The queues may be used to transfer information contained in output **530** and input **531** information streams between layers **523a-c.** Although only one queue in a receive and transmit direction is shown between any two

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layers in Figure 5, it is understood from the descriptions herein that more than one queue between any two layers is within the scope of the present invention, for example, with different receive or transmit queues corresponding to different communications channels, or different queues corresponding to different information streams, for example, video and audio, or the like. Each layer **523a-c** may comprise at least one thread that takes information from one or more queues **524a-b**, **525a-b**, that processes the information, and that makes the processed information available to another layer through another queue. In one embodiment, threads may comprise real-time threads. More than one protocol layer or queue may be serviced by the same thread. Flow control between layers may be implemented by blocking or unblocking threads based on flow control indications on the queues **524a-b**, **525a-b.** Flow control is an event, which may occur when a queue becomes close to full and which may be cleared when it falls to a lower level.

The DPE **501** manages information embodied as blocks **B** of memory and links the blocks **B** together to form frames **526a-b, 527a-b, 528** as shown in Fig. 5. Frames may also be held by queues. As shown, a frame may comprise groups of one block, two blocks, four blocks, but may also comprise other numbers of blocks **B**. The threads comprising a layer may put frames to and take frames from the queues **524a-b, 525a-b**. The DPE **501** allows that frames **526a-b, 527a-b, 528** may be passed between software layers, wherein adding, removing, and modifying information in the queues, frames, and blocks **B** occurs without corruption of the information. Blocks **B** may be recycled as frames are produced and consumed by the layers.

In one embodiment, queueendpoints **540a-c** may comprise the layers **523a-c** and may perform inspect-modify-forward operations on frames **526a-b, 527a-b, 528**. For example, queueendpoints may take frames **526a-b, 527a-b, 528** from a queue or queues **524a-b, 525a-b** to look at what is inside a frame to make a decision, to modify a frame, to forward a frame to another queue, and/or to consume a frame. In one embodiment, the DPE **501** has one thread per layer **523a-c** and, thus, one thread per queueendpoint **540a-c**. A thread may inspect the queues and may go waiting. A queueendpoint **540a-c** may wait on an object. A queueendpoint may optionally wait on itself. Prior to waiting on itself, a queueendpoint **540a-c** may register itself to all queues **524a-b, 525a-b** that the queueendpoint terminates. When something is put into a queue **524a-b, 525a-b**, or a congestion from the queue that was sourced by a queueendpoint **540a-c** is cleared, the queue may notify the queueendpoint to wake the queueendpoint up, then the queueendpoint may take remedial action if there is congestion, or it can service the queue that it now has to

Lexmark, Exhibit 1003
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