Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
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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	11932585
Filing Date	10/31/2007
First Named Inventor	Kembel
Title	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES
Art Unit	2177
Examiner Name	NGUYEN
Attorney Docket Number	0416-001A

SIGNATURE of Applicant or Patent Practitioner

Signature	/Peter G Korytnyk/	Date (Optional)	May 12, 2022
Name	Peter G Korytnyk	Registration Number	43400
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.

SAMSUNG 1002

GENERAL POWER OF ATTORNEY BY APPLICANT AND/OR ASSIGNEE
FOR UNITED STATES PATENT

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter (form PTO/AIA/82A or equivalent).

I hereby appoint Practitioner(s) associated with the following Customer Number for **PK Patent Law, LLC:**

41200

as my attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office in connection with for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent). Please recognize or change the **correspondence address** for the application identified in the attached transmittal letter to the address associated with the above-mentioned **Customer Number**.

I am the:

Inventor or Joint Inventor.

Legal Representative of a Deceased or Legally Incapacitated Inventor

Assignee or Person to Whom the Inventor is Under an Obligation to Assign and am authorized to act on behalf of all assignees.

Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)

Assignee Name & Address:
DoDots Licensing Solutions, LLC
1701 Directors Blvd., Suite 300
Austin, TX 78744-1044

Signature of Applicant and/or Assignee:

Signature: _____ Date: May 6, 2022

Name (printed): David White

Telephone: (949) 939-0775

Title and Company: Sole Member, DoDots Licensing Solutions, LLC

PTO/AIA/96 (08-12)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: DoDots Licensing Solutions, LLC

Application No./Patent No.: 8,020,083 Filed/Issue Date: 09-13-2011

Titled: SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

DoDots Licensing Solutions, LLC, a limited liability company

(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 _____, Frame _____, 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: Inventors To: DODOTS, INC.

   The document was recorded in the United States Patent and Trademark Office at
   Reel 039760, Frame 0733, or for which a copy thereof is attached.

2. From: DODOTS, INC. To: SHERWOOD PARTNERS, INC.

   The document was recorded in the United States Patent and Trademark Office at
   Reel 039760, Frame 0850, 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 01/31/2013. 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: SHERWOOD PARTNERS, INC. To: INNOVATION MANAGEMENT SCIENCES

The document was recorded in the United States Patent and Trademark Office at
Reel 039760, Frame 0935, or for which a copy thereof is attached.

4. From: INNOVATION MANAGEMENT SCIENCES To: MAINSTREAM SCIENTIFIC, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 039760, Frame 0988, or for which a copy thereof is attached.

5. From: MAINSTREAM SCIENTIFIC, LLC To: STRATEGIC INTELLECTUAL SOLUTIONS, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 044474, Frame 0829, or for which a copy thereof is attached.

6. From: STRATEGIC INTELLECTUAL SOLUTIONS, LLC To: DODOTS LICENSING SOLUTIONS, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 044474, Frame 0836, 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 G. Korytnyk/	June 2, 2022
Signature	Date
Peter G. Korytnyk	43400
Printed or Typed Name	Title or Registration Number

[Page 2 of 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 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.

Electronic Acknowledgement Receipt	
EFS ID:	45859751
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	909
Filer:	Peter George Korytnyk
Filer Authorized By:	
Attorney Docket Number:	043311-0381669
Receipt Date:	02-JUN-2022
Filing Date:	31-OCT-2007
Time Stamp:	14:04:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	POA0416_001A.pdf	1962254 916cb2f31492aadc8a769ad68ad1cfe8ca4692ae	no	2
Warnings:					

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	POA373STMT0416_001A.pdf	125138 7053c3d935f22f914190b7fbee76308450eb27d7	no	3
Warnings:					
Information:					
			Total Files Size (in bytes):	2087392	

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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JUN 02 2022
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DIVISION

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PTO/SB/66 (11-21)
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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 TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

Docket Number (Optional) 0416-001A

Mail to: **Mail Stop Petition**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Fax: (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at (571) 272-3282.

Patent No. 8,020,083 Application Number 11/932,585

Issue Date 09-13-2011 Filing Date 10-31-2007

CAUTION: Maintenance fee payment must correctly identify: (1) the patent number (or reissue patent number, if a reissue) and (2) the application number of the actual U.S. application (or reissue application) leading to issuance of that patent to ensure the fee(s) is/are associated with the correct patent. 37 CFR 1.366(c) and (d).

Also complete the following information, if applicable.

The above-identified patent

☐ is a reissue of original Patent No. _____ original issue date _____

original application number _____

original filing date _____.

☐ resulted from the entry into the U.S. under 35 U.S.C. 371 of international application _____

filed on _____.

NOTE: A grantable petition requires the following items:

(1) Petition fee;
(2) Maintenance fee; and
(3) Statement that the delay in payment of the maintenance fee was unintentional.

CERTIFICATE OF MAILING OR TRANSMISSION (37 CFR 1.8(a))

I hereby certify that this paper (* along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or being transmitted to the U.S. Patent and Trademark Office by EFS-Web, or by facsimile to (571) 273-8300, on the date shown below.

_____ _____
Date Signature

_____
Typed or Printed Name of Person Signing Certificate

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0016. Public burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. 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/SB/66 (11-21)
Approved for use through 11/30/2024. OMB 0651-0016
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 TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

1. SMALL ENTITY

☐ Patentee asserts, or has previously asserted, small entity status. See 37 CFR 1.27.

2. LOSS OF ENTITLEMENT TO SMALL ENTITY STATUS

☐ Patentee is no longer entitled to small entity status. See 37 CFR 1.27(g).

3. MICRO ENTITY

☐ Patentee certifies, or has previously certified, 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.

4. LOSS OF ENTITLEMENT TO MICRO ENTITY STATUS

☐ Patentee is no longer entitled to micro entity status. See 37 CFR 1.29(i).

5. MAINTENANCE FEE (37 CFR 1.20(e)-(g))

The appropriate maintenance fee must be submitted with this petition, unless it was paid earlier.

Undiscounted			Small Entity			Micro Entity		
Amount	Fee	(Code)	Amount	Fee	(Code)	Amount	Fee	(Code)
☐ $ 2000	3½ yr fee	(1551)	☐ $	3½ yr fee	(2551)	☐ $	3½ yr fee	(3551)
☑ $ 3760	7½ yr fee	(1552)	☐ $	7½ yr fee	(2552)	☐ $	7½ yr fee	(3552)
☐ $ 7700	11½ yr fee	(1553)	☐ $	11½ yr fee	(2553)	☐ $	11½ yr fee	(3553)

MAINTENANCE FEE BEING SUBMITTED $ 3760

6. PETITION FEE

The petition fee required by 37 CFR 1.17(m) of:

$ 2100 Undiscounted (Fee Code 1558); or

$ _____ Small Entity (Fee Code 2558); or

$ _____ Micro Entity (Fee Code 3558)

must be paid as a condition of accepting an unintentionally delayed payment of a maintenance fee.

PETITION FEE BEING SUBMITTED $ 2100

7. MANNER OF PAYMENT

☐ Enclosed is a check for the sum of $ _____

☐ Please charge Deposit Account No. _____ the sum of $ _____

☑ Payment by credit card. Form PTO-2038 is attached.

☐ Payment made via EFS-Web.

8. AUTHORIZATION TO CHARGE ANY FEE DEFICIENCY

☑ The Director is hereby authorized to charge any maintenance fee or petition deficiency to Deposit Account No. 503318

PTO/SB/66 (11-21)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

9. OVERPAYMENT

As to any overpayment made, please

☑ Credit to Deposit Account No. 503318

OR

☐ Send refund check

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, petitioner/applicant 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.

10. STATEMENT

The delay in payment of the maintenance fee for this patent was unintentional.

Petitioner is reminded that a delay resulting from a deliberately chosen course of action or a change in circumstance is not an unintentional delay.

Petitioner is further reminded that a person seeking reinstatement of an expired patent should not make a statement that the delay in payment of the maintenance fee was unintentional unless the entire delay was unintentional, including the period from discovery that the maintenance fee was not timely paid until payment of the maintenance fee. For example, a statement that the delay in payment of the maintenance fee was unintentional would not be proper when the patentee becomes aware of an unintentional failure to timely pay the maintenance fee and then intentionally delays filing a petition for reinstatement of the patent under 37 CFR 1.378. See MPEP 2590.

NOTE: Where the petition under 37 CFR 1.378 is filed more than two years after the date the patent expired for nonpayment of the maintenance fee, the United States Patent and Trademark Office requires an additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional. This requirement is in addition to the requirement to provide a statement that the entire delay was unintentional. See *Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020). See MPEP 711.03(c)(II)(C)-(F) for additional guidance on the information required to establish that the entire delay was unintentional.

☑ Because this petition under 37 CFR 1.378 is being filed more than two years after the date the patent expired for nonpayment of the maintenance fee, additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional is enclosed herewith.

PTO/SB/66 (11-21)
Approved for use through 11/30/2024. OMB 0651-0016
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE IN AN EXPIRED PATENT (37 CFR 1.378(b))

11. PETITIONER REQUESTS THAT THE DELAYED PAYMENT OF THE MAINTENANCE FEE BE ACCEPTED AND THE PATENT BE REINSTATED.

June 2, 2022
Date

/Peter G Korytnyk/
Signature(s) of Petitioner

43400
Registration Number, if applicable

Peter G Korytnyk
Typed or Printed Name

703-628-0990
Telephone Number

PK Patent Law, 213 S. Payne Street, Alexandria, VA 22314
Address

Address

37 CFR 1.378(c) states: "Any petition under this section must be signed in compliance with § 1.33(b)."

12. ENCLOSURES

- [x] Maintenance Fee Payment
- [x] Petition fee under 37 CFR 1.17(m) (fee for filing the maintenance fee petition)
- [x] Additional sheet(s) containing statement establishing unintentional delay
- [x] Other: Payment by credit card. Form PTO-2038

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. The United States Patent and Trademark Office (USPTO) collects this information under authority of 5 CFR 1.290. The information in this system of records is used to manage all records of applicant including name, citizenship, residence, post office address and other information with respect to inventors and their legal representatives pertaining to the applicant's activities in connection with the invention for which a patent is sought. This information is protected from disclosure to third parties in accordance with the Privacy Act.

However, routine uses of this information may include disclosure to the following: to law enforcement and investigation in the event that the system of records indicates a violation or potential violation of law; to a Federal, state, local, or international agency, in response to its request; to an agency, organization, or individual for the purpose of performing audit or oversight operations as authorized by law; to non-federal personnel under contract to the agency; to a court for adjudication and litigation; to the Department of Justice for Freedom of Information Act (FOIA) assistance; to members of congress working on behalf of an individual; to the Office of Personnel Management (OPM) for personnel research purposes; to National Archives and Records Administration for inspection of records; and to the Office of Management and Budget (OMB)for legislative coordination and clearance. Failure to provide any part of the requested information may result in an inability to process requests for access and information. The applicable Privacy Act System of Records Notice for this information is COMMERCE/PAT-TM-7 Patent Application Files, available at Federal Register / Vol. 78, No. 61 / Friday, March 29, 2013 /Notices 19243. https://www.govinfo.gov/content/pkg/FR-2013-03-29pdf/2013-07341.pdf

OPAP LHDTSV-2
JUN 02 2022
PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: U.S. Patent No. 8,020,083

ADDITIONAL SHEETS CONTAINING EXPLANATION OF CIRCUMSTANCES ESTABLISHING UNINTENTIONAL DELAY FOR PETITION TO ACCEPT UNINTENTIONALLY DELAYED PAYMENT OF MAINTENANCE FEE UNDER 37 C.F.R. §1.378(b)

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

Since this petition under 37 C.F.R. §1.378(b) is being filed more than two years after the date the patent expired for nonpayment of the maintenance fee, Petitioner is providing the following additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional.

The current owner of U.S. Patent No. 8,020,083 is DoDots Licensing Solutions, LLC. DoDots Licensing Solutions, LLC became owner of this patent (in addition to other issued U.S. Patents) by way of an assignment executed on December 16, 2017 and recorded with the USPTO on December 22, 2017.

David C. White is the sole member of DoDots Licensing Solutions, LLC.

Mr. White is an investor and businessman and is not a practicing attorney, let alone a patent attorney or patent agent.

At the time of the purchase of U.S. Patent No. 8,020,083 by DoDots Licensing Solutions, LLC, the attorney of record and official correspondence address for this patent was Pillsbury Winthrop Shaw Pittman, LLP, PO Box 10500, McLean VA 22102. Pillsbury Winthrop Shaw

Pittman, LLP continues to be listed as the correspondence address in Public PAIR for U.S. Patent No. 8,020,083.

At no time did any attorney, agent, or representative of Pillsbury Winthrop Shaw Pittman, LLP make Mr. White aware of the need to pay any patent maintenance fees. Nor did they forward any documentation from their firm or from the USPTO that would've made Mr. White aware of the need to pay any patent maintenance fees.

Moreover, at no time did Mr. White hire a new patent prosecution counsel for U.S. Patent No. 8,020,083 as it was an issued patent and it was his belief that there so no need for new patent prosecution counsel.

On June 27, 2019, Lenovo Holding Company, Inc filed a Petition for an *inter partes* review of claims 1-16 of U.S. Patent No. 8,020,083 (Case: IPR2019-01278). In this litigation matter, DoDots Licensing Solutions, LLC was represented by Lewis E. Hudnell, III (Special counsel to Progress LLP) of Hudnell Law Group P.C., 800 W. El Camino Real, Suite 180, Mountain View, CA 94040 and by Perry M. Goldberg of Progress LLP, 11620 Wilshire Blvd., 9th Floor, Los Angeles, CA 90025.

On January 19, 2021, the PTAB entered a final written decision in Case: IPR2019-01278 in favor of DoDots Licensing Solutions, LLC.

At no time did any attorney, agent, or representative of Hudnell Law Group P.C. or of Progress LLP make Mr. White aware of the need to pay any patent maintenance fees. Nor did either of these firms forward any documentation from their firm or from the USPTO that would've made Mr. White aware of the need to pay any patent maintenance fees.

In mid-April 2022, Mr. White was placed in contact with Chandran Iyer, Esq. of Daignault Iyer LLP in Vienna, Virginia to discuss a possible infringement action. In their conversations, Mr. White was made aware of the need to pay patent maintenance fees and it was determined that U.S. Patent No. 8,020,083 had expired on September 13, 2019 for failure to pay

the 7.5 year maintenance fee (the 3.5 year maintenance fee was paid by a previous owner of U.S. Patent No. 8,020,083).

On May 4, 2022, the Petitioner was contacted by Chandran Iyer, Esq. to discuss the possibility of becoming patent prosecution counsel for DoDots Licensing Solutions, LLC. The specific task would be petitioning the USPTO to accept delayed payment of the maintenance fee for U.S. Patent No. 8,020,083, as well as the series of other issued U.S. Patents owned by DoDots Licensing Solutions, LLC.

On May 6, 2022, David White signed an engagement letter with the Petitioner's law firm to represent DoDots Licensing Solutions, LLC in various patent prosecution matters including the delayed payment of maintenance fees.

In summation, within days of becoming aware of the need to file patent maintenance fees in U.S. Patent No. 8,020,083, Mr. White hired the undersigned counsel to prepare and file this petition under 37 C.F.R. §1.378(b).

In view of the above, the undersigned Petitioner requests that the delayed payment of the maintenance fee be accepted and the patent be reinstated.

Respectfully submitted,

Peter G. Korytnyk

Dated: June 2, 2022

Peter G. Korytnyk (Reg No 43,400)
Attorney for Applicant

PK Patent Law
213 S. Payne Street
Alexandria, VA 22314
703-892-5210 (telephone)

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 Texas - Waco Division on the following

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

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:22-cv-00533	May 24, 2022	Western District of Texas - Waco Division

PLAINTIFF	DEFENDANT
DoDots Licensing Solutions LLC	Apple Inc., Best Buy Stores, L.P., BestBuy.com, LLC, and Best Buy Texas.com, LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9369545	June 15, 2016	DoDots Licensing Solutions LLC
2	8020083	September 13, 2011	DoDots Licensing Solutions LLC
3	8510407	August 13, 2013	DoDots Licensing Solutions LLC
4			
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**

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 Texas - Waco Division on the following

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

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
6:22-cv-00535	May 24, 2022	Western District of Texas - Waco Division

PLAINTIFF	DEFENDANT
DoDots Licensing Solutions LLC	Samsung Electronics Co., LTD., Samsung Electronics America, Inc., Best Buy Stores, L.P., BestBuy.com, LLC, and Best Buy Texas.com, LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	9,369,545	June 14, 2016	DoDots Licensing Solutions LLC
2	8,020,083	September 13, 2011	DoDots Licensing Solutions LLC
3	8,510,407	August 13, 2013	DoDots Licensing Solutions LLC
4			
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**

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82A (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
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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	11932585
Filing Date	10/31/2007
First Named Inventor	Kembel
Title	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES
Art Unit	2177
Examiner Name	NGUYEN
Attorney Docket Number	0416-001A

SIGNATURE of Applicant or Patent Practitioner

Signature	/Peter G Korytnyk/	Date (Optional)	May 12, 2022
Name	Peter G Korytnyk	Registration Number	43400
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.

GENERAL POWER OF ATTORNEY BY APPLICANT AND/OR ASSIGNEE FOR UNITED STATES PATENT

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

I hereby revoke all previous powers of attorney given in the application identified in the attached transmittal letter (form PTO/AIA/82A or equivalent).

I hereby appoint Practitioner(s) associated with the following Customer Number for **PK Patent Law, LLC:**

41200

as my attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office in connection with for the application referenced in the attached transmittal letter (form PTO/AIA/82A or equivalent). Please recognize or change the **correspondence address** for the application identified in the attached transmittal letter to the address associated with the above-mentioned **Customer Number**.

I am the:

Inventor or Joint Inventor.

Legal Representative of a Deceased or Legally Incapacitated Inventor

Assignee or Person to Whom the Inventor is Under an Obligation to Assign and am authorized to act on behalf of all assignees.

Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document)

Assignee Name & Address:
DoDots Licensing Solutions, LLC
1701 Directors Blvd., Suite 300
Austin, TX 78744-1044

Signature of Applicant and/or Assignee:

Signature: _____ Date: May 6, 2022

Name (printed): David White

Telephone: (949) 939-0775

Title and Company: Sole Member, DoDots Licensing Solutions, LLC

Electronic Acknowledgement Receipt	
EFS ID:	45702696
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	909
Filer:	Peter George Korytnyk
Filer Authorized By:	
Attorney Docket Number:	043311-0381669
Receipt Date:	12-MAY-2022
Filing Date:	31-OCT-2007
Time Stamp:	20:31:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	11932585POA.pdf	1962254 916cb2f31492aadc8a769ad68ad1cfe8ca4692ae	no	2
Warnings:					

Information:	
Total Files Size (in bytes):	1962254

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.

Trials@uspto.gov
571-272-7822

Paper 37
Entered: January 19, 2021

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LENOVO HOLDING COMPANY, INC., LENOVO (UNITED STATES) INC., and MOTOROLA MOBILITY LLC,
Petitioner,

v.

DODOTS LICENSING SOLUTIONS LLC,
Patent Owner.

IPR2019-01278
Patent 8,020,083 B1

Before JAMES A. WORTH, AMBER L. HAGY, and SHARON FENICK, *Administrative Patent Judges.*

FENICK, *Administrative Patent Judge.*

JUDGMENT
Final Written Decision
Determining No Challenged Claims Unpatentable
35 U.S.C. § 318(a)
Granting-In-Part Petitioner's Motion to Strike
37 C.F.R. 42.5

I. INTRODUCTION

This is a Final Written Decision in this *inter partes* review challenging the patentability of claims 1–16 of U.S. Patent No. 8,020,083 B1 (Ex. 1001, "the '083 patent"). We have jurisdiction under 35 U.S.C. § 6(b)(4). This Final Written Decision is issued pursuant to 35 U.S.C. § 318(a) and 37 C.F.R. § 42.73.

Petitioner bears the burden of proving unpatentability of the challenged claims, and the burden of persuasion never shifts to Patent Owner. *Dynamic Drinkware, LLC v. Nat'l Graphics, Inc.*, 800 F.3d 1375, 1378 (Fed. Cir. 2015). To prevail, Petitioner must prove unpatentability by a preponderance of the evidence. *See* 35 U.S.C. § 316(e) (2018); 37 C.F.R. § 42.1(d) (2018). Having reviewed the parties' arguments and supporting evidence, for the reasons discussed below, we find that Petitioner has not demonstrated by a preponderance of the evidence that any of claims 1–16 are unpatentable. Additionally, for the reasons discussed below, in Section III.G, we grant-in-part Petitioner's Motion to Strike (Paper 31).

II. BACKGROUND AND SUMMARY

A. Procedural History

Lenovo Holding Company, Inc., Lenovo (United States) Inc., and Motorola Mobility LLC ("Petitioner") filed a Petition for an *inter partes* review of claims 1–16 ("the challenged claims") of the '083 patent. Paper 2 ("Pet."). DoDots Licensing Solutions LLC ("Patent Owner") did not file a Preliminary Response. In view of the preliminary record, we concluded that Petitioner satisfied the burden, under 35 U.S.C. § 314(a), to show that there was a reasonable likelihood that Petitioner would prevail with respect to at least one of the challenged claims. Accordingly, we instituted an *inter*

partes review of all the challenged claims, on all of the asserted grounds. Paper 8 ("Inst. Dec.").

Patent Owner filed its Response. Paper 20 ("PO Resp."). Petitioner filed a Reply. Paper 22 ("Reply"). After receiving authorization, Patent Owner filed a motion to strike certain portions of the Reply and exhibits referenced, and Petitioner filed an opposition. Paper 24; Paper 25. In an order relating to this motion to strike, we granted Patent Owner's motion and determined that a certain portion of the Reply was untimely and, along with certain exhibits, would not be considered. Paper 26, 4–7.

Patent Owner filed a Sur-reply. Paper 28 ("Sur-reply"). After receiving authorization, Petitioner filed a motion to strike Patent Owner's Sur-reply and a supplemental declaration filed with the Sur-reply. Paper 31 ("Pet. Mot." or "Petitioner's Motion to Strike"). Patent Owner filed an opposition. Paper 32 ("PO Opp."). We address Petitioner's Motion to Strike, *infra* Section III.G, and grant the motion with respect to the supplemental declaration, but deny the motion with respect to the Sur-reply.

On October 28, 2020, we held an oral hearing, the transcript of which is of record. Paper 36 ("Tr.").

B. Real Parties in Interest

Petitioner indicates that Lenovo Holding Company, Inc., Lenovo (United States) Inc., and Motorola Mobility LLC are the real parties-in-interest. Pet. 65.

Patent Owner indicates that DoDots Licensing Solutions, LLC is the real party-in-interest. Paper 5 (Patent Owner's Mandatory Notices), 2.

C. Related Matters

According to Petitioner and Patent Owner, the '083 patent at issue here is also asserted in *DoDots Licensing Solutions LLC v. Lenovo Holding*

Company, Inc., et al., No. 18-098-MN (D. Del.) ("the related district court action"). Pet. 65–66; Paper 5, 2. Petitioner notes that the related district court action also involves U.S. Patent Nos. 9,369,545 ("the '545 patent") and 8,510,407 ("the '407 patent"), and that Petitioner filed a petition for *inter partes* review of the patentability of certain claims in the '545 patent in IPR2019-00988 (final written decision finding no claims unpatentable issued, *see* IPR2019-00988, Paper 37 (Sept. 9, 2020)) and a petition for an *inter partes* review of the patentability of certain claims in the '407 patent (final written decision finding no claims unpatentable issued, *see* IPR2019-01279, Paper 37 (Jan. 5, 2021)). Pet. 66.

D. The '083 Patent

The title of the '083 patent is "System and Methods for Creating and Authoring Internet Content Using Application Media Packages." Ex. 1001, code (54). The '083 patent discloses, in part, a software component for accessing and displaying network content. *Id.* at code (57). This component, termed an "Application Media Package" or "Dot," is a "fully configurable frame with one or more controls" with content optionally presented through the frame. *Id.* at 3:57–59, 5:40–48. When a Dot is opened by a user, the frame is presented in the user's display, and network content is retrieved and presented in a viewer enclosed by the frame. *Id.* at 23:5–17. The network content may be identified via URLs included in the Dot. *Id.* at code (57), 13:47–52, 14:14–16. The Specification describes that the Dot "stands in contrast to present web browsers, which are branded by the browser vendor and which have limited means by which to alter the controls associated with the browser." *Id.* at 5:44–48.

A server may store a number of Dots and provide a Dot to a client system upon request. *Id.* at 7:5–23, 20:63–21:42, 22:53–23:19, Figs. 1, 6, 8. A user at the client system may then store or use the Dot. *Id.* at 23:20–62.

E. Illustrative Claim

Claims 1 and 9 are the only independent claims among the challenged claims. Claim 1 is reproduced below with Petitioner's limitation designations added in brackets for ease of reference:

1. [1.Preamble] A client device, the client device comprising:

[1.A] electronic storage having stored thereon a plurality of networked information monitor templates defining a plurality of networked information monitors, the plurality of networked information monitor templates comprising a first networked information monitor template defining a first networked information monitor, wherein the first networked information monitor template comprises:

[1.B] (1) a content reference that comprises a network location at which content for the first networked information monitor is accessible via a TCP/IP protocol;

[1.C] (2) a definition of a graphical user interface of the first networked information monitor that lacks controls for manually navigating a network, and that includes a frame within which content received from the network location can be displayed, and frame characteristics defining one or more a color, a size, or a position on the electronic display of the frame; and

[1.D] (3) instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the TCP/IP protocol, and [1.E] (ii) to cause the first networked information monitor to generate the graphical user interface of the first networked information monitor with the content received from

the network location via the TCP/IP protocol within the frame;

[1.F] an electronic display; and

[1.G] one or more processors configured to access the first networked information monitor template, and to execute the first networked information monitor template such that the graphical user interface of the first networked information monitor is presented to a user on the electronic display having content received from the content reference therein.

F. Evidence

Petitioner relies on the following references:

Reference	Description	Date	Exhibit
Van Hoff et al. ("Hoff")[1]	US 5,919,247	Issued July 6, 1999	Ex. 1004
Berg	Cliff Berg, *How Do I Create a Signed Castanet Channel?*, DR. DOBB'S JOURNAL	Jan. 1, 1998	Ex. 1007
Razavi et al. ("Razavi")	US 6,401,134 B1	Issued June 4, 2002	Ex. 1009
Andersen	US 5,999,941	Issued Dec. 7, 1999	Ex. 1006

[1] The last name of the first-named inventor is Van Hoff, but, for consistency with the Petition, we refer to this patent as "Hoff."

G. Asserted Grounds

Petitioner asserts that claims 1–16 would have been unpatentable on the following grounds:

Claim(s) Challenged	35 U.S.C. §[2]	Reference(s)/Basis
1–16	103	Hoff, Berg
1–16	103	Razavi, Andersen

III. ANALYSIS

A. Legal Standards

It is a petitioner's burden to demonstrate unpatentability. *See Dynamic Drinkware*, 800 F.3d at 1378 (citing *Tech. Licensing Corp. v. Videotek, Inc.*, 545 F.3d 1316, 1326–27 (Fed. Cir. 2008)).

A patent claim is unpatentable under 35 U.S.C. § 103(a) if the differences between the claimed subject matter 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." *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398, 406 (2007). The question of obviousness is resolved based on underlying factual determinations, including: (1) the scope and content of the prior art; (2) any differences between the claimed subject matter and the prior art; (3) the level of skill in the art; and (4) objective evidence of nonobviousness, i.e., secondary considerations. *See Graham v. John Deere Co.*, 383 U.S. 1, 17–18 (1966). "To satisfy its burden of proving obviousness, a petitioner cannot employ mere conclusory statements. The petitioner must instead articulate specific reasoning, based on evidence of record, to support the legal

[2] Because the claims at issue have an effective filing date prior to the effective date of the AIA's amendments to 35 U.S.C. § 103, we apply the pre-AIA version of § 103 in this Decision.

conclusion of obviousness." *In re Magnum Oil Tools Int'l, Ltd.*, 829 F.3d 1364, 1380 (Fed. Cir. 2016). We analyze the asserted grounds with the principles stated above in mind.

B. Level of Ordinary Skill in the Art

Petitioner asserts that a person of ordinary skill in the art "would have a bachelor's degree in Electrical or Computer Engineering, Computer Science, or a related field and have three or more years of corresponding industry work experience." Pet. 5 (citing Ex. 1003 ¶ 39). Patent Owner does not provide an alternative description of the proper level of ordinary skill or comment on Petitioner's proposal.

Petitioner's proposal appears to be consistent with the prior art of record. *Okajima v. Bourdeau*, 261 F.3d 1350, 1355 (Fed. Cir. 2001) (explaining that specific findings regarding ordinary skill level are not required where the prior art itself reflects an appropriate level and a need for testimony is not shown). We adopt this proposal for this Final Written Decision.

C. Claim Construction

In an *inter partes* review based on a petition filed after November 13, 2018, the claims are construed

> using the same claim construction standard that would be used to construe the claim in a civil action under 35 U.S.C. [§] 282(b), including construing the claim in accordance with the ordinary and customary meaning of such claim as understood by one of ordinary skill in the art and the prosecution history pertaining to the patent.

See Changes to the Claim Construction Standard for Interpreting Claims in Trial Proceedings Before the Patent Trial and Appeal Board, 83 Fed. Reg. 51,340, 51,340, 51,358 (Oct. 11, 2018) (amending 37 C.F.R. § 42.100(b)

effective November 13, 2018) (now codified at 37 C.F.R. § 42.100(b) (2019)); *see Phillips v. AWH Corp.*, 415 F.3d 1303, 1312–13 (Fed. Cir. 2005) (setting forth claim construction standard in civil actions). Any special definitions for claim terms must be set forth in the specification with reasonable clarity, deliberateness, and precision. *See In re Paulsen*, 30 F.3d 1475, 1480 (Fed. Cir. 1994).

To resolve Petitioner's challenge, the parties assert that three claim terms need to be construed: "networked information monitor," "networked information monitor template" (or "NIM template"), and "execute" or "executing" (as used, for example, in the claim terms "execute the first networked information monitor template" in claim 1, "executing the first networked information monitor template" in claim 9, and similarly in dependent claims 5, 8, 12, and 16). PO Resp. 6–8; Reply 2–9; Sur-reply 2–7 ("The heart of the dispute between the parties with respect to claim construction relates to the term 'template' as used in the phrase 'networked information monitor . . . template.'"). Each term is introduced in each of the two independent claims from among the challenged claims. Ex. 1001, 47:42–48:8, 48:64–49:33. We address these terms here.

1. "networked information monitor"

The claims use the term "networked information monitor," which is not found in the Specification. Petitioner and Patent Owner agree that the term "application media package" appearing in the Specification is synonymous with "networked information monitor." Pet. 2 n.1; PO Resp. 7; Reply 2 & n.1. Petitioner additionally argues that the term "Dot" used in the Specification is synonymous with "networked information monitor," and Patent Owner appears to use the terms synonymously as well. Pet. 2 n.1; PO Resp. 3, 4, 12; Reply 2 & n.1.

Patent Owner argues that "[t]he inventors defined [a] NIM in the specification" as "a fully configurable frame with one or more controls; the frame through which content is optionally presented." PO Resp. 7 (quoting Ex. 1001, 5:40–43); Ex. 2004 ¶ 22. Petitioner agrees that "networked information monitor" is defined. Reply 2–3 (citing Ex. 1010 ('407 patent), 2:59–61, 5:18–29); Tr. 14:20–23 (Petitioner's counsel stating that "[t]he patentee set out a clear and explicit definition of the term, networked information monitor or NIM, said it refers to a fully configurable frame . . . with one or more controls"); *see* Ex. 1003 ¶ 33.

The definition of Application Media Package provided in the Specification describes it as including a frame "through which content is optionally presented." Ex. 1001, 5:41–44; *see* Ex. 1010, 5:21–24. Claim 1 describes a NIM as including "a graphical user interface . . . that lacks controls for manually navigating a network, and that includes a frame within which content received from [a] network location can be displayed." *Id.* at 47:53–57. The definition of NIM provided in the Specification is consistent with the use in the claim. With respect to the word "optionally" in the Specification definition, we note that, in the claims, content is recited as being presented on an electronic display within a NIM's graphical user interface (element 1.G and the last element of claim 9). *Id.* at 48:3–8; *see also id.* at 49:28–33.

For these reasons, we determine that the correct construction of a NIM is "a fully configurable frame, with one or more controls, through which content is presented to the user," and this is the interpretation we apply here.

2. "networked information monitor template" and *"execute"/"executing"*

a) The Parties' Contentions

Patent Owner asserts: "the NIM template is a data structure that defines the NIM; it is not the NIM and it is not an executable program (i.e., compiled code)." PO Resp. 7. Petitioner, while not presenting a proposed construction, argues that Patent Owner's construction should be rejected as not supported by a definition in the '083 patent, and specifically argues that Patent Owner's proposed definition is flawed because it excludes an executable program from being a NIM template. Reply 1–10.

Patent Owner additionally asserts that "'execute'/'executing' as used in the claims . . . means 'use/using the information from the NIM template in connection with specified operations.'" PO Resp. 8–9 (citing Ex. 2004 ¶ 66). Petitioner argues that "execute" should be construed to have a plain and ordinary meaning, "namely executing an 'executable program' or 'executable application' with a processor or through an emulator." Reply 4–5 (citing Ex. 1019, 15:8–16:23, 20:15–21:8, 59:5–7).

With respect to NIM template, Patent Owner supports its proposed constructions with references to the Specification. Patent Owner references the description in the Specification that "[e]ach Application Media Package template defines the characteristics of a specific Application Media Package." Ex. 1001, 7:17–23 (quoted at Ex. 2004 ¶ 49); PO Resp. 8. With respect to "the definition of the NIM," Patent Owner cites the Specification's statement that the definition is "content, rather than compiled code" and cites additionally Figure 8, which shows that a "Dot Frame" is "buil[t]" on a client computer after the "Dot Definition" is retrieved from a server. PO Resp. 5–6 (citing Ex. 2004 ¶¶ 61–62); Ex. 1001, 4:64–57, 14:34–35, 23:1–11. Patent Owner argues that "NIM templates are

significantly smaller than the NIMs they define." PO Resp. 7 (citing Ex. 2004 ¶ 54 (quoting the Specification's statement that "a Dot Definition typically has a small file size (~2 KB)" (Ex. 1001, 21:48–54))). Patent Owner additionally relies on the testimony of its expert, Dr. Earl Sacerdoti, regarding the plain and ordinary meaning of the word "template," and on Dr. Sacerdoti's testimony that, according to the '083 patent, a NIM template is not compiled code, and cannot be an executable application or applet. *Id.* at 7–8 (citing Ex. 2004 ¶¶ 38–45, 55).

With respect to "NIM template," Petitioner argues that the plain and ordinary meaning of the term should control. Reply 1. Petitioner argues that the language of the claims, in which NIM templates are "execut[ed]," contradicts Patent Owner's urged construction, which excludes executable NIM templates. *Id.* at 4–5. Petitioner argues further that NIM templates are claimed as comprising "instructions" and are therefore executable. *Id.* at 5; *see* Ex. 1001, 47:48–49, 47:60–67, 49:6–7, 49:18–25. With respect to the Specification, Petitioner argues that the portions cited by Patent Owner relate to non-limiting examples of NIM templates, such as one in which NIM definitions use Extensible Markup Language (XML) as opposed to providing any specific general limitations. Reply 5–7 (citing Ex. 1010, 21:45–50, Fig. 13). Thus, Petitioner argues, Patent Owner improperly reads limitations from the examples in the Specification, which Petitioner contends are non-limiting, into its definition of "NIM template." *Id.* at 5–7. Petitioner argues that the Specification describes that a Dot definition is a "software entity" and therefore cannot be limited to a data structure. *Id.* at 7 (referring to Ex. 1001, 10:11).

Petitioner additionally argues that Patent Owner's proposed construction improperly excludes disclosed embodiments. *Id.* at 7–9.

Petitioner quotes the '407 patent's reference to "[a] second executable module" that "defines a NIM frame for the NIM using the definition." *Id.* at 8 (quoting Ex. 1010, 3:8–10) (emphasis omitted). Petitioner also discusses the portion of the Specification of the '407 patent that describes users sharing NIMs via a database that stores "Share Module[s]" including "multiple . . . individual [NIM] definition modules" or "multiple packs of NIMs that have been shared . . . containing multiple NIM definition modules." Ex. 1010, 34:4–15, Fig. 24 (discussed and quoted-in-part at Reply 8–9). Petitioner argues that Dr. Sacerdoti "confirmed that a person of ordinary skill in the art would understand that '[a] module would be a chunk of code' and that an 'executable module' is 'executable computer code.'" Reply 9 (quoting Ex. 1019, 69:22–70:13). Petitioner also argues that Patent Owner's definition is contradicted by Patent Owner's statements in the prosecution history of other related patents and by Patent Owner's infringement allegations against Petitioner in the related district court action. *Id.* at 9–10 (citing Ex. 1015, 6, 7, 9–10). As discussed in our analysis below, Petitioner's arguments are not persuasive.

b) Construction

After considering the usage of "NIM template" in the claims, the Specification, and the prosecution history, and having reviewed the parties' contentions and evidence, we determine that a NIM template is a data structure that defines the characteristics of a NIM, including the NIM frame, view, and control characteristics, and that excludes executable applications/compiled code.

Turning to the usage of NIM template in the claims: from the language of claim 1, we understand that the NIM template defines a NIM and comprises a content reference, a definition of a graphical user interface

including a frame, and instructions configured to cause the NIM to request content from the network location in the content reference and to generate the graphical user interface ("GUI") with received content within the frame. Ex. 1001, 47:42–48:8; *see also id.* at 48:64–49:33 (similar limitations in claim 9). From our examination of the claims, we understand that the NIM template defines the characteristics of the viewer and the content on the viewer.

As to the prosecution history of the '083 patent, the parties did not identify, and we did not find, any portion of the prosecution history that is helpful in determining the meaning of NIM template.

The Specification of the '083 patent does address the meaning of NIM template. The Specification states that the creation of a Dot "is fundamentally different than rendering internet content in a viewer application or alternatively, developing, distributing, and supporting a custom client-side application." Ex. 1001, 13:1–10. The Specification states that "[e]ach Application Media Package template defines the characteristics of a specific Application Media Package, including fully configurable frame characteristics, viewer and control characteristics, and Application Media Package content references." *Id.* at 7:19–23; *see also id.* at 24:12–14 ("The Dot Definition, as discussed above, includes the Dot frame definition and the definition of the controls for filling the viewer within the frame with content.").

The Specification states that "*[u]nlike a downloadable, custom, client-application* (e.g., for delivering custom web applications to users' desktops), *an Application Media Package is entirely content*. That is, the entirety of a Dot package, referred to as its definition, is in a browser-readable language."

Id. at 8:53–57 (emphases added) (cited at Ex. 2004 ¶ 23). The Specification further states:

> As previously mentioned, *Dot Definition 104 is typically XML code*. These definitions are quite simple to author, and to edit if needed. *The definition is content, rather than compiled code, which provides additional flexibility at the client side* should it be desired to modify the definition (e.g., allow a user to edit the network reference).

Id. at 14:45–60 (emphases added) (cited at Ex. 2004 ¶ 20). The Specification describes that "[a] A Dot developer can . . . author a new Dot application by developing web content (HTML, GIF files, etc.) and by packaging that content in a Dot Definition, eliminating the need for compilers and consequently, downloading executables." *Id.* at 40:24–28. From these disclosures, we understand that the Specification prohibits the NIM template from using compiled code or being an executable application. Our review of the Specification did not identify disclosure of use of compiled code or an executable application as the NIM template.

As discussed, Petitioner argues that XML embodiments described are exemplary rather than limiting. Reply 6–7 (citing *Innova/Pure Water, Inc. v. Safari Water Filtration Sys., Inc.*, 381 F.3d 1111, 1117 (Fed. Cir. 2004) ("[P]articular embodiments appearing in the written description will not be used to limit claim language that has broader effect.")). Petitioner's argument is not persuasive. Although we agree with Petitioner that the XML embodiment is one possible embodiment of a NIM template, the Specification distinguishes the XML embodiment from embodiments using other languages for data structures, rather than distinguishing the XML embodiment from embodiments in which the template is compiled code. The Specification's broad statements that a NIM template is content, rather

than compiled code, and that using a Dot Definition eliminates the need for downloading executables apply to all NIM templates, not just one particular embodiment. The Specification does not describe any NIM template that uses compiled code or executable applications. While Petitioner argues that a NIM template "might contain any binary content, including executable code," Petitioner's argument is not persuasive. Reply 7 (citing Ex. 1010, 33:59–61). Petitioner's contention is attorney argument unsupported by persuasive expert testimony. *In re Geisler*, 116 F.3d 1465, 1470–71 (Fed. Cir. 1997) (argument by counsel cannot take the place of evidence); *In re Pearson*, 494 F.2d 1399, 1405 (CCPA 1974) ("Attorney's argument in a brief cannot take the place of evidence.").

With respect to the "second executable module" and "NIM definition modules" described in the '407 patent, Petitioner's arguments are again not persuasive. Reply 7–9. Petitioner does not identify, and we do not find, any portion of the '407 patent's disclosure that describes that the second executable module contains compiled code. Rather, the "second executable module," described as acting to "define[] a NIM frame for the NIM using the definition," is preceded by the description of a first executable module that "identif[ies] a definition of a Networked Information Monitor." Ex. 1010, 3:6–9. Although Petitioner argues that the second executable module *is* a NIM template, the second executable module is described in the Specification as "*using* the definition" that was identified by the first module. *Id.* (emphasis added). Petitioner only highlights the described action of the second executable module to "define a NIM frame" but does not explain the interaction with the first executable module, or support the assertion that the second executable module *is* a NIM template or that the discussed NIM definition modules are executable modules. *See* Reply 7.

Although Petitioner cites Dr. Sacerdoti's deposition testimony relating to the word "module," Petitioner's contentions about the meaning of NIM template, and whether the "second executable module" or "NIM definition module" are NIM templates or executable modules, are attorney argument unsupported by persuasive expert testimony. *See Geisler*, 116 F.3d at 1470–71. The Specification does not describe any NIM template that uses compiled code or executable applications. Rather, the Specification provides that "[t]he Dot Definition 104 contains just enough information to define, layout, and initialize a Dot's components (frame, controls, etc.)" and "[t]he definition is content, rather than compiled code." Ex. 1001, 21:48–50, 14:34–35; Ex. 2004 ¶¶ 51, 54.

Petitioner's argument regarding the claim terms "execute" or "executing," e.g., in claim 1's "one or more processors configured to access the first networked information monitor template, and to execute the first networked information monitor template," does not present any testimony regarding whether one of ordinary skill in the art, reading these claims, would determine that the networked information monitor template is described as executable code. Reply 4; Ex. 1001, 48:2–8. Petitioner's contentions about the meaning of this term are attorney argument unsupported by citations to persuasive intrinsic evidence or testimony from a witness competent to opine about how an ordinarily skilled artisan would understand the terms. *See Geisler*, 116 F.3d at 1470–71. Petitioner does not explain how execution applies to portions of a NIM template such as "a content reference that comprises a network location" (limitation 1.B) and "a definition of a [GUI]" (limitation 1.C). As such, Petitioner's argument is not persuasive. Rather, we are persuaded, in determining the proper construction of "NIM template," by Patent Owner's argument that "execute"

as used with respect to a template has a different meaning than "execute" as used with respect to an application. PO Resp. 8–9 (citing Ex. 2004 ¶ 66 (testifying that executing a template would mean using the information in the template in connection with specified operations).

With respect to Petitioner's argument that Dr. Sacerdoti's construction of NIM template is contradicted by the claim's requirement that the NIM template comprise "instructions," we note again that this is attorney argument, as Petitioner presents no testimony that the instructions referred to in the claim are executable instructions. Reply 5 (quoting Ex. 2004 ¶ 25); *see also* Ex. 2004 ¶ 64 (describing the NIM template as containing instructions for downloading content). Dr. Sacerdoti describes that the NIM template may include data specifying, e.g., the dimensions of a frame, but that producing a specific user experience from data value "provides no evidence concerning whether those characteristics were produced from data or from operating executable code." Ex. 2004 ¶ 25; *see also* Ex. 2004 ¶ 90 (contrasting instructions that are executable code with instructions in a data structure).

Lastly, Petitioner's argument with respect to the positions taken by Patent Owner in the related district court action, in which, according to Petitioner, "Patent Owner has contended that each step of Claim 1 is performed by the use of" an "app," is again attorney argument. *See* Reply 9–10. Although Petitioner cites the Second Amended Complaint, that document, with respect to the '083 patent, describes generally that "Lenovo's YogaBook . . . infringes Claim 1 of the '083 patent" without specific mapping to the NIM template. Ex. 1015, 8–10. Petitioner's argument is not persuasive because it does not present any evidence about how these apps work and how they apply to the disputed NIM template. In

addition, Petitioner's contentions about the meaning of the disputed terms and apps are attorney argument unsupported by persuasive evidence. *See Geisler*, 116 F.3d at 1470–71. A party's infringement allegations do not override the meaning of the claims based on the intrinsic evidence.

For the reasons above, we determine that a NIM template is a data structure that defines the characteristics of a NIM, including the NIM frame, view and control characteristics, and that excludes executable applications/compiled code. With respect to the claim terms "execute" and "executing," while we have discussed arguments relating to these terms with respect to our construction of "NIM template," because our ultimate decision does not rest on the construction of these claim terms, we do not construe them. *See Vivid Techs., Inc. v. Am. Sci. & Eng'g, Inc.*, 200 F.3d 795, 803 (Fed. Cir. 1999) ("[O]nly those terms need be construed that are in controversy, and only to the extent necessary to resolve the controversy."); *Nidec Motor Corp. v. Zhongshan Broad Ocean Motor Co.*, 868 F.3d 1013, 1017 (Fed. Cir. 2017) (applying *Vivid Techs.* in the context of an *inter partes* review).

D. Obviousness over Hoff and Berg

Petitioner contends that the subject matter of claims 1–16 would have been obvious over the combined teachings of Hoff and Berg. Pet. 18–37. We first describe the prior art that Petitioner seeks to combine to show that these claims are obvious, and then turn to the merits of the combination.

1. Hoff

Hoff is titled "Method for the Distribution of Code and Data Updates," and issued on July 6, 1999. Ex. 1004, codes (54), (45). Petitioner contends Hoff is prior art under 35 U.S.C. § 102(e). Pet. 8. Patent Owner does not dispute the prior-art status of Hoff.

Hoff describes a system and method for distributing software applications and data to thousands of clients over a network. Ex. 1004, code (57). In Hoff, an application is called a "channel," the server that distributes the channel is called the "transmitter," and the client receiving the channel is called the "tuner." *Id.* at code (57), 2:54–67. An end user, using a client/tuner, "subscribes" to a channel, the associated code and data are downloaded to the tuner, and then the channel can be executed many times without requiring further network access. *Id.* at code (57), 3:1–9. Any necessary software and data updates for the channel can be automatically downloaded and installed in the background at regular intervals by the tuner; the end user is not required to manually install software updates. *Id.* at code (57), 3:10–14, 5:4–28. Hoff asserts that this method of automatic downloading of updates achieves for the client the same result as the broadcast distribution of software over a connection-based network, but wherein the client initiates each update request without requiring any special broadcast networking infrastructure. *Id.* at code (57).

2. Berg[3]

Berg is an article by Clifford Berg titled "How Do I Create a Signed Castanet Channel?" Ex. 1007, 1. Petitioner asserts that Berg was published

[3] The parties dispute whether Petitioner has met its burden of proof in the Petition that Berg was publicly accessible as of the critical date (April 26, 1999), and, therefore, available as a prior art printed publication. Pet. 6 (citing Ex. 1005 ¶¶ 2–3); *see also* Papers 23–26 (relating to and granting a motion to strike Petitioner's arguments in the Reply concerning this issue as not properly responsive to any argument or evidence in the Patent Owner Response); Reply 12–14. We do not reach the dispute regarding the prior-art status of Berg because it is not necessary to our ultimate decision. Even if we accept Petitioner's view that Berg qualifies as prior art, we find that

on January 1, 1998, and is prior art under 35 U.S.C. § 102(b). Pet. 6; *see* Ex. 1005 (Declaration of Clifford Berg).

Berg discloses using Marimba's Castanet, the "Java-centric (but not limited to Java) push technology," to distribute content to users. Ex. 1007, 1. Castanet is "a technology for deploying highly scalable applications, with centralized update and administration capabilities." *Id.* at 2. Berg states:

> Castanet consists of a client called the "tuner" and a server called the "transmitter." Channels are published by an administrator on a transmitter. A workstation that has a tuner installed can subscribe to any number of channels on any number of transmitters. The tuner updates the channel's content, which may consist of Java code, media, and other files, including binary code (signed channels can load native methods supported by DLLs). The tuner presents a user interface for managing channels. The tuner interface is set apart from the interface constructed by any given channel (if the channel even has a user interface). This is unlike a browser, which imposes a user interface frame around any application that runs within it. Channels construct their own frames if and when they need them.

Id.

Berg describes, as an example, "a Castanet channel that opens a window on the screen, and allows a user to select from one of a small set of web locations to view." *Id.* at 3. The list of allowable locations is hard-coded into the program. *Id.* at 4. Once the user selects a location from the provided list, the application fetches data via the corresponding address and displays the content within a web-viewing window, implemented with an HTML renderer. *Id.* at 3, 4. The frame containing the choice selector (for choosing the web location) and the window in which the content is viewed

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Petitioner has not established the unpatentability of any challenged patent claim.

also includes an "X" window-close control, which allows a user to close the frame. *Id.* at 4.

3. Analysis of Claims 1–16

In support of Petitioner's contention that claims 1–16 would have been obvious over the combined teachings of Hoff and Berg, Petitioner provides an element-by-element analysis showing where Petitioner contends each element of the challenged claims is in Hoff and Berg. Pet. 18–37. Petitioner also provides supporting testimony by Dr. Vijay K. Madisetti (Ex. 1003). Patent Owner, relying on supporting testimony by Dr. Sacerdoti (Ex. 2004), argues that Petitioner does not show that the claims are unpatentable because, in part: (1) Hoff and Berg do not have a NIM template, (2) Hoff and Berg do not have a separate NIM and NIM template, and (3) objective evidence of non-obviousness such as commercial success undermines Petitioner's arguments of unpatentability.[4] PO Resp. 1–2, 9–12, 14–15. For reasons set forth below, we determine that Petitioner has not shown that Hoff and Berg teach or suggest the limitations of claims 1–16.

[4] Patent Owner asserts that objective evidence of non-obviousness — commercial success — supports a finding of non-obviousness of the '083 patent. PO Resp. 14–15; Ex. 2003. We do not assess the objective evidence of non-obviousness because we find that Petitioner fails to carry its burden of demonstrating the unpatentability of any challenged claim based on the asserted prior art. *See, e.g., Hamilton Beach Brands, Inc. v. f'real Foods, LLC*, 908 F.3d 1328, 1343 (Fed. Cir. 2018) (holding, in affirming Board decision determining that petitioner had not shown unpatentability, that "objective indicia of nonobviousness" "need not [be] address[ed]" because the court "affirm[ed the] Board's findings regarding the failure of the prior art to teach or suggest all [claim] limitations").

a) Claims 1 and 9 – "networked information monitor template"

Claim 1 recites a NIM and a NIM template in several limitations, including in limitation 1.A:

> [1.A] electronic storage having stored thereon a plurality of networked information monitor templates defining a plurality of networked information monitors, the plurality of networked information monitor templates comprising a first networked information monitor template defining a first networked information monitor, wherein the first networked information monitor template comprises . . . .

Ex. 1001, 47:43–49. Limitations 1.B through 1.D describe that the first NIM template of limitation 1.A comprises a content reference, a definition of a GUI, and instructions configured to cause the first NIM to request content and generate the GUI. *Id.* at 47:50–67. Claim 9 contains similar descriptions of a NIM and NIM template. *Id.* at 49:1–25.

Petitioner asserts that Hoff teaches the first NIM template of claims 1 and 9 in the code and data downloaded to local storage when a channel is subscribed to. Pet. 19–20 (citing Ex. 1004, 2:45–48, 2:56–67, 3:1–5, 4:47–49, Fig. 1B), 32. Petitioner asserts that Berg also discloses a tuner that is used to subscribe to channels, and that both Berg's and Hoff's channels include instructions and data used to create a GUI and display content therein, and that they therefore include a networked information monitor template. *Id.* at 20 (citing Ex. 1007, 2; Ex. 1003 ¶ 96). Petitioner asserts that both limitation 1.C, requiring that the first NIM template includes a definition of a GUI and a substantially identical limitation of claim 9 are taught by Berg, citing Berg's disclosures of an application (Castanet channel) that includes a definition of an interface with a frame in which content is presented and of rendering that presented content from HTML. *Id.* at 22–23 (citing Ex. 1003 ¶ 103; Ex. 1007, 3–4), 32.

Petitioner's arguments are not persuasive because Petitioner does not show persuasively that Hoff's and Berg's channel application comprises a data structure that defines the characteristics of a NIM, including the NIM frame, view, and control characteristics, but that exclude executable applications/compiled code. *See supra* III.C.2.b (claim construction of "networked information monitor template"). Petitioner admits that Hoff relates to distribution of software applications, such as Hoff's channels that are downloaded and installed and then executed as a "normal application." Pet. 5 (quoting Ex. 1004, 2:59; also citing Ex. 1004, code (54), 2:38–41, 2:54–67, 3:1–10, 4:8–10, 4:19–24, 4:37–47, 4:51–57); Reply 11 (describing Hoff's channel code and data as the NIM template). Petitioner describes Berg's Castanet channel as an application that is deployed via Castanet and that can "do 'all the things a traditional installed application would do.'" Pet. 6–7 (citing Ex. 1007, 2–4, 6).

Petitioner's showing is also deficient because it fails to account for the fact that, as both Petitioner and Patent Owner agree, the NIM and the NIM template are separate and distinct elements. Reply 2; PO Resp. 7; Tr. 16:14–19, 63:10–13. Neither Petitioner nor Dr. Madisetti identify what in Hoff and Berg might be a NIM template separate and distinct from the NIM. To the contrary, Petitioner argues that the channel applications (i.e., the NIM) contain the NIM template. *See, e.g.*, Pet. 20; Ex. 1003 ¶ 162 ("Specifically, the channel applications [disclosed in Hoff and Berg] contain instructions and data used to create a GUI and display content therein. Therefore, the 'channel' applications in Hoff and Berg include the claimed NIM template."). We also credit Dr. Sacerdoti's testimony that, under Petitioner's interpretation in which Hoff's and Berg's channel application (NIM) contains the claimed NIM template, Hoff and Berg still do not teach a

NIM and a NIM template that are separate and distinct elements. Ex. 2004 ¶¶ 74 ("Even were a NIM template to be contained within the application that the petition identifies as the channel, the petition does not identify any data structure contained within the channel that could define the NIM. Not having identified any particular data structure, neither the petition nor Dr. Madisetti have identified a NIM definition that is disclosed by Hoff." (emphasis omitted)), 79 ("As with Hoff, neither Dr. Madisetti nor the petition asserts what in Berg might be the NIM template (channel template) that is distinct from the NIM (channel)." (emphasis omitted)).

Thus, for the reasons discussed above, we conclude that Petitioner has not demonstrated by a preponderance of the evidence that claims 1 and 9 would have been obvious over the combination of Hoff and Berg.

b) Claims 2–8 and 10–16

Each of claims 2–8 and 10–16 depends, directly or indirectly, from independent claim 1 or independent claim 9, and, therefore, requires a "NIM template." Ex. 1001, 48:9–63, 49:34–50:43. Thus, for the same reasons discussed above with respect to Petitioner's challenge of claims 1 and 9, we also conclude that Petitioner has not demonstrated by a preponderance of the evidence that claims 2–8 and 10–16 would have been obvious over Hoff and Berg.

c) Summary

For the reasons above, Petitioner has not shown that Hoff and Berg, either singly or in combination with each other, teach or suggest a NIM template comprising a data structure separate and distinct from a NIM that defines the characteristics of a NIM, including the NIM frame, view and control characteristics, and that excludes executable applications/compiled

code. Thus, Petitioner has not shown by a preponderance of the evidence that claims 1–16 are unpatentable over Hoff and Berg.

E. Obviousness over Razavi and Andersen

Petitioner contends that the subject matter of claims 1 16 would have been obvious over the combined teachings of Razavi and Andersen. Pet. 37–65. We first describe the prior art that Petitioner seeks to combine to show that these claims would have been obvious, and then turn to the merits of the combination.

1. Razavi

Razavi is titled "Detachable Java Applets," and issued on June 4, 2002. Ex. 1009, codes (54), (45). Petitioner contends Razavi is prior art under 35 U.S.C. § 102(e). Pet. 7.

Razavi describes "detaching Java applets from the constraints of the application such as a browser which provides the Java engine for executing those applets." Ex. 1009, code (57). In Razavi, a Java applet will be detachable from the application in which it was spawned and have the functionality of any ordinary application window running in the operating environment, including modifying the interface to suit the peculiarities of the applet. *Id.* at 4:41–56, 5:64–6:20. According to Razavi, the applet must be launched in the virtual machine of the application, and is detached if the user activates a detach user interface element. *Id.* at 5:48–63. Figure 4, reproduced below, is Razavi's illustration of a detached applet as rendered on a display screen. *Id.* at 7:8–9.

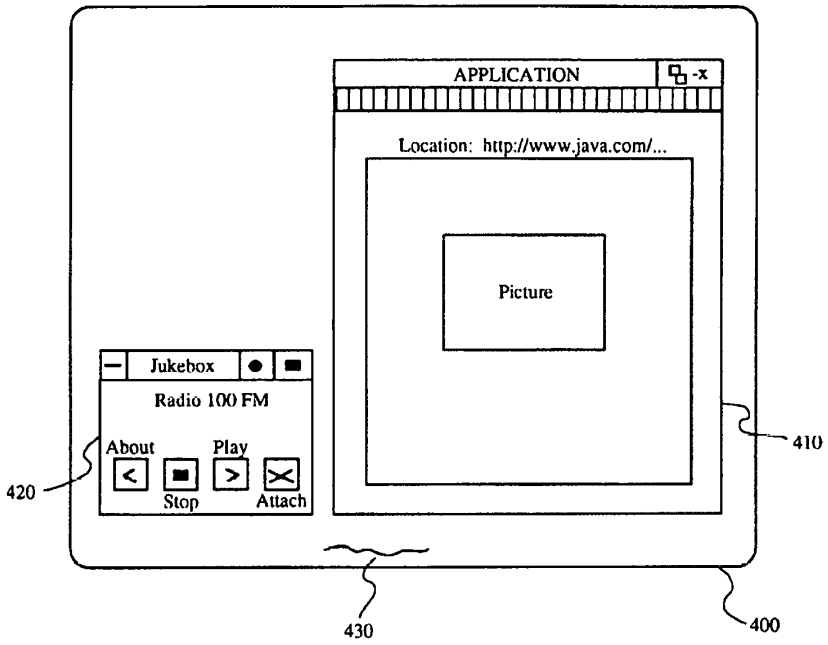


FIGURE 4

Figure 4 depicts application window 410 and detached applet 420 named "Jukebox" displayed on display 400. *Id.* at 7:10–12, 7:29–33. Application window 410 is running over an operating environment desktop 430, which also controls the general look-and-feel of the window for detached applet 420. *Id.* at 7:17–19, 17:39–41. Detached applet 420 contains applet controls "About," "Stop," and "Play," and a control called "Attach," which closes the detached applet 420 and "collapse[s] the applet back into application window 410." *Id.* at 7:34–35, 8:10–14.

The exemplary detached applet described in Razavi, the Jukebox applet, is a streaming audio applet that "creates VCR-type controls that allow the user to stop, play, or rewind the audio stream or to jump to a different selection" and optionally provides an image, such as a CD cover, to

be displayed, associated with each audio selection. *Id.* at 4:25–26, App'x A col. 1.

2. Andersen

Andersen is titled "Database Access Using Active Server Pages," and issued on December 7, 1999. Ex. 1006, codes (54), (45). Petitioner contends Andersen is prior art under 35 U.S.C. § 102(e). Pet. 9. Andersen describes an applet on a client computer that allows a database query to be embedded in an URL in order to obtain query results in HTML form. Ex. 1006, code (57), 3:5–29, 5:3–33. Andersen provides an example of a stock price quoting system implemented using a Java applet. *Id.* at 1:62–63, 1:67–2:30. The applet requests one or more stock prices from a server and the server responds with an HTML file into which data returned by the database is inserted in response to the query. *Id.* at 5:34–7:5. This allows an advantage over a system in which stock prices are available directly from an HTML page rather than from a database, because "storing the stock price data in static HTML pages can be quite inefficient, and data stored in this manner is not amenable to incremental updates and easy and efficient ad hoc searching and manipulation." *Id.* at 2:59–3:4.

3. Analysis of Claims 1–16

In support of Petitioner's contention that claims 1–16 would have been obvious over the combined teachings of Razavi and Andersen, Petitioner provides an element-by-element analysis showing where Petitioner contends each element of the challenged claims is in Razavi and Andersen. Pet. 37–65. Petitioner also provides supporting testimony by Dr. Madisetti (Ex. 1003). Patent Owner, relying on supporting testimony by Dr. Sacerdoti (Ex. 2004), argues that Petitioner does not show that claims 1–16 are unpatentable because Razavi and Andersen teach accessing Java

applets through a web browser, and thus, as with the ground involving Hoff and Berg, Patent Owner therefore argues that: (1) the combination of Razavi and Andersen does not teach a NIM template, and (2) the combination of Razavi and Andersen does not teach a separate NIM and NIM template. PO Resp. 1–2, 9–13. Patent Owner additionally argues that one of ordinary skill would not have been motivated to combine Razavi and Andersen. *Id.* at 2, 13. For reasons set forth below, we determine that Petitioner has not shown that Razavi and Andersen, either singly or in combination with each other, teaches or suggests the limitations of claims 1–16.

a) Claims 1 and 9 – "networked information monitor template"

Petitioner asserts that the client device of the preamble of claims 1 and 9 is taught by Razavi's and Andersen's disclosure of "similar computer-implemented methods in which an 'applet' is downloaded onto a client computing device, retrieves content from a server over a network, such as the internet, and presents the content within a GUI on a display." Pet. 37 (citing Ex. 1009, 1:1–41; Ex. 1006, 1:10–2:30; Ex. 1003 ¶ 269), 59. Petitioner asserts that Razavi teaches the NIM template of claims 1 and 9 in Razavi's Java applets, downloaded in a pre-compiled state, and then executed at a client device. Pet. 38–39 (citing Ex. 1009, 1:9–25, 5:51–56, 7:29–33; Ex. 1003 ¶¶ 274–277), 59–60.

Petitioner's arguments are not persuasive because Petitioner does not show persuasively that Razavi's and Andersen's applets comprise a data structure that defines the characteristics of a NIM, including the NIM frame, view, and control characteristics, but that excludes executable applications/compiled code. Razavi relates to distribution of executable platform-independent Java applets. Ex. 1009, 1:13–16 (platform-independent applets are downloaded as pre-compiled Java byte-codes),

1:26–30 (applet runs on a platform's virtual machine capable of executing applet code), 3:13–15; Ex. 1003 ¶ 98; Ex. 2004 ¶ 83.

Petitioner's showing is also deficient because it fails to account for the fact that, as discussed previously, both Petitioner and Patent Owner agree that the NIM and the NIM template are separate and distinct elements. Reply 2; PO Resp. 8; Tr. 18:1–7, 56:18–19, 69:10–11. However, neither Petitioner nor Dr. Madisetti identify what in Razavi or Andersen might be a NIM template separate and distinct from the NIM. To the contrary, Petitioner argues that the received applet in Razavi contains definitions for the GUI generated by the applet. Pet. 42–43; Ex. 1003 ¶ 284. In addition, Dr. Sacerdoti's unrebutted testimony is that a person of ordinary skill in the art would understand that Razavi's and Andersen's Java applets disclose no separate definition of or template for applets that might teach or suggest a distinct NIM template. Ex. 2004 ¶ 98; *see id.* ¶ 89 ("Applets and applications were known in the art to be executable code."). Thus, for the reasons discussed above, we conclude that Petitioner has not demonstrated by a preponderance of the evidence that claims 1 and 9 would have been obvious over the asserted prior art.

b) Claims 2–8 and 10–16

Each of claims 2–8 and 10–16 depends, directly or indirectly, from independent claim 1 or independent claim 9, and, therefore, requires a "NIM template." Ex. 1001, 47:9–48:63, 49:34–50:43. Thus, for the same reasons discussed above with respect to Petitioner's challenge of claims 1 and 9, we also conclude that Petitioner has not demonstrated by a preponderance of the evidence that claims 2–8 and 10–16 would have been obvious over Razavi and Andersen.

c) Summary

For the reasons above, Petitioner has not shown that Razavi and Andersen, either singly or in combination with each other, teach or suggest a NIM template comprising a data structure that defines the characteristics of a NIM, including the NIM frame, view and control characteristics, and that excludes executable applications/compiled code. Thus, Petitioner has not shown by the preponderance of the evidence that claims 2–8 and 10–16 are unpatentable over Razavi and Andersen.

F. Patent Owner's "'Secret' Prior Art" Argument

Patent Owner argues that, because Hoff and Razavi were published after the critical date for the '083 patent (April 26, 1999), they are "'secret' prior art" because they were not available to one of ordinary skill in the art as of the critical date. PO Resp. 15–16. Patent Owner acknowledges that, under current Federal Circuit precedent, these patents are considered prior art despite not being publicly accessible as of the critical date, but Patent Owner contends that the law should be changed. *Id.*

Because we must follow the law as it stands, we decline to address Patent Owner's arguments. Additionally, we decline to address these arguments because we have examined the unpatentability of the challenged claims over Hoff and Berg (Section III.D) and over Razavi and Andersen (Section III.E) and found, in each case, that the Petitioner has not established the unpatentability of the claims over the asserted prior art. *See, e.g., Hamilton Beach Brands*, 908 F.3d at 1343.

G. Petitioner's Motion to Strike

As discussed *supra*, Petitioner's Motion to Strike requested that we strike Patent Owner's Sur-reply and a supplemental declaration of Dr. Sacerdoti (Ex. 2007, "Supplemental Declaration") filed with the Sur-

reply. Pet. Mot. 1. Petitioner argues that filing of the Supplemental Declaration contravenes our Practice Guide governing the conduct of this proceeding that a sur-reply "may not be accompanied by new evidence other than deposition transcripts of the cross-examination of any reply witness." *Id.* (quoting Patent Trial and Appeal Board Consolidated Trial Practice Guide November 2019 ("Consolidated TPG") 73). Patent Owner argues that the Consolidated TPG is only a guide and that its statements are not controlling or binding rules. PO Opp. 1. Patent Owner additionally argues, generally, that the Supplemental Declaration was necessary to address "arguments raised" in Petitioner's Reply, providing only one general example: that "Petitioners argued in their Reply that Patent Owner's Response was inconsistent with positions Patent Owner has taken in the district court litigation." *Id.* at 2–3. However, the Supplemental Declaration only discusses this issue in one paragraph, its last one.

As we indicated during the hearing (Tr. 4:18–5:2), we grant-in-part the Motion to Strike, with respect to striking the Supplemental Declaration, which constitutes new evidence filed with the Sur-reply. With respect to the Sur-reply itself, the Consolidated TPG notes that "[t]he Board is not required to attempt to sort proper from improper portions of the reply or sur-reply" and that a reply that raises a new issue might not be considered. Consolidated TPG 74. However, "striking the entirety or a portion of a party's brief is an exceptional remedy that the Board expects will be granted rarely," and we are capable of disregarding any new issues exceeding the proper scope of reply. *Id.* at 80. We determine that this is not a case requiring that exceptional remedy, and that the Sur-reply need not be stricken.

Thus, we grant-in-part and deny-in-part the Motion to Strike. Specifically, we grant the motion with respect to the Supplemental Declaration but deny the motion with respect to the Sur-reply.

IV. CONCLUSION

For the reasons expressed above, we determine that Petitioner has not proven by a preponderance of the evidence that the challenged claims are unpatentable.

In summary:

Claims	35 U.S.C. §	Reference(s)/Basis	Claims Shown Unpatentable	Claims Not Shown Unpatentable
1–16	103	Hoff, Berg		1–16
1–16	103	Razavi, Andersen		1–16
Overall Outcome				1–16

V. ORDER

In consideration of the foregoing, it is hereby:

ORDERED that claims 1–16 of the '083 patent have not been shown to be unpatentable;

FURTHER ORDERED that Petitioner's Motion to Strike (Paper 31) is granted-in-part and denied-in-part as discussed above;

FURTHER ORDERED that the Supplemental Declaration of Dr. Earl Sacerdoti (Ex. 2007) is stricken from the record; and

FURTHER ORDERED that, because this is a Final Written Decision, parties to the proceeding seeking judicial review of the Decision must comply with the notice and service requirements of 37 C.F.R. § 90.2.

FOR PETITIONER:

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Matthew J. Meyer
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FOR PATENT OWNER:

Lewis E. Hudnell, III
HUDNELL LAW GROUP P.C.
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Patent Trial and Appeal Board

A petition has been filed in Patent Number 8,020,083, Application Number 11/932,585 on 6/27/2019.

The AIA Review Number is IPR2019-01278.

To view the documents filed in this petition, go to https://ptab.uspto.gov and Search for the AIA Review Number.

- Enter your search criteria on the "Search PTAB" page
- Type in the AIA Review Number or Patent Number
- You will need to answer the CAPTCHA to prove that you are not a robot.
- Click on the "Search" button
- The search results will appear identifying the AIA Review Number
- Click on the "View Documents" button
- A pop up window will appear with a list of documents
- Click on the "Download" button to download the document.

Questions regarding this notice should be directed to the Patent Trial and Appeal Board at 571-272-7822.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO.	: 8,020,083 B1
APPLICATION NO.	: 11/932585
DATED	: September 13, 2011
INVENTOR(S)	: John Albert Kembel et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page, Item (63) should read:

(63) Continuation of application No. 09/558,922, filed on Apr. 26, 2000, now Pat. No. 7,756,967, and application No. 09/558,925, filed on Apr. 26, 2000, now Pat. No. 7,660,868.

On the Title page, insert Item (60) as follows:

-- (60) Provisional application No. 60/131,083, filed on Apr. 26, 1999, provisional application No. 60/131,115, filed on Apr. 26, 1999, provisional application No. 60/131,114, filed on Apr. 26, 1999, provisional application No. 60/176,687, filed on Jan. 18, 2000, provisional application No. 60/176,699, filed on Jan. 18, 2000. --

Signed and Sealed this
Fourth Day of September, 2012

David J. Kappos

David J. Kappos
Director of the United States Patent and Trademark Office

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS :	John Albert KEMBEL *et al.*	CONFIRMATION NO.:	2646
PATENT NUMBER :	8,020,083	SERIAL NO.:	11/932,585
ISSUE DATE :	September 13, 2011	FILING DATE:	October 31, 2007
FOR :	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES		

REQUEST FOR CERTIFICATE OF CORRECTION

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

Sir:

The assignee of the above-identified patent, through its attorneys, hereby requests issuance of a Certificate of Correction. A certificate is required to correct the error as set forth below.

The error is considered to be the fault of the United States Patent and Trademark Office ("PTO"). Therefore, no fee is required. However, in the event that it is determined that fees are due, the Commissioner is hereby authorized to charge the undersigned's Deposit Account No. 03-3975 (Reference No. 043311-0381669).

Insertion of Related U.S. Application Data

The present application is a continuation of Application Serial No. 09/558,922, filed April 26, 2000, which claims priority to U.S. provisional applications Serial No. 60/131,083, filed April 26, 1999, Serial No. 60/131,115, filed April 26, 1999, Serial No. 60/131,114, filed April 26, 1999, Serial No. 60/176,687, filed January 18, 2000, and Serial No. 60/176,699, filed January 18, 2000. This application also claims priority to U.S. Patent Application Serial No. 09/558,925, filed April 26, 2000. However, the title page of the patent that issued on this application does not list these applications. Accordingly, Item (63) should be corrected to state "Continuation of application No. 09/558,922, filed on Apr. 26, 2000, now Pat. No. 7,756,967, and application No. 09/558.925, filed on Apr. 26, 2000, now Pat. No. 7,660,868.". Additionally, Item (60) should be inserted, which should state "Provisional application No. 60/131,083, filed on Apr. 26, 1999, provisional application No. 60/131,115, filed on Apr. 26, 1999, provisional application No. 60/131,114, filed on Apr. 26, 1999, provisional application No. 60/176,687, filed on Jan. 18, 2000, provisional application No. 60/176,699, filed on Jan. 18, 2000.". The undersigned has provided a copy of the cover sheet of U.S. Patent No. 7,756,967 which correctly lists the priority applications of parent application Serial No. 09/558,922, thus supporting the contention that PTO error resulted in the omission of the related U.S. application data on the title page of the patent.

CONCLUSION

It is respectfully requested that a Certificate of Correction be issued to correct this error.

Form PTO/SB/44 is attached for this purpose.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP

By /D. Benjamin Esplin/
D. Benjamin Esplin
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00909

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Dated: July 23, 2012

US007756967B1

(12) **United States Patent**
Kembel et al.

(10) **Patent No.: US 7,756,967 B1**
(45) **Date of Patent: Jul. 13, 2010**

(54) **APPARATUS AND METHOD OF HOSTING INTERNET CONTENT**

(75) Inventors: **John Albert Kembel**, Palo Alto, CA (US); **George Andrew Kembel**, Menlo Park, CA (US); **Daniel S. Kim**, Palo Alto, CA (US); **John Russell**, Palo Alto, CA (US); **Jake Wobbrock**, Palo Alto, CA (US); **Geoffrey S. Kembel**, Menlo Park, CA (US); **Jeremy L. Kembel**, Palo Alto, CA (US); **Joseph A. Bella**, San Francisco, CA (US); **Sridhar T. Devulkar**, San Jose, CA (US); **Mark Wallin**, Mountain View, CA (US)

(73) Assignee: **Mainstream Scientific, LLC**, Mountain View, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/558,922**

(22) Filed: **Apr. 26, 2000**

Related U.S. Application Data

(60) Provisional application No. 60/131,083, filed on Apr. 26, 1999, provisional application No. 60/131,115, filed on Apr. 26, 1999, provisional application No. 60/131,114, filed on Apr. 26, 1999, provisional application No. 60/176,687, filed on Jan. 18, 2000, provisional application No. 60/176,699, filed on Jan. 18, 2000.

(51) **Int. Cl.**
G06F 15/16 (2006.01)
G06F 15/173 (2006.01)

(52) **U.S. Cl.** **709/224**; 709/203; 709/223

(58) **Field of Classification Search** 709/203, 709/217–219, 223–224, 236, 245–246, 200, 709/206; 707/100; 705/26; 717/178; 345/676; 715/505–508, 733, 736
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,625,781 A 4/1997 Cline et al.

(Continued)

FOREIGN PATENT DOCUMENTS

WO WO 01/80086 A2 4/2000

OTHER PUBLICATIONS

Patent Application entitled "Parallel Web Sites" U.S. Appl. No. 09/192,633, filed Nov. 16, 1998.

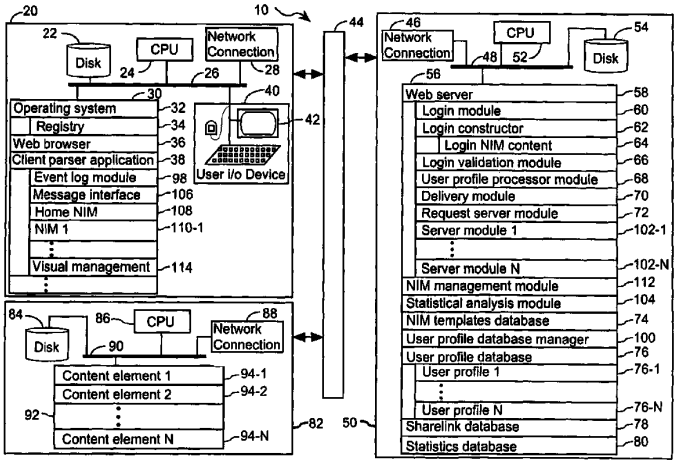
(Continued)

Primary Examiner—Laurie Ries
Assistant Examiner—Chau Nguyen
(74) *Attorney, Agent, or Firm*—Pillsbury Winthrop Shaw Pittman LLP

(57) **ABSTRACT**

The invention includes a method of hosting Internet content. The method includes the step of receiving an address of a definition from a computing device, where the definition defines a frame and a location of content with which to fill in the frame. The definition is located in a database utilizing the address. The definition is transmitted to the computing device. A method of the invention also includes permitting access to a database containing a set of definitions, where the set of definitions defines a frame and a location of content with which to fill in the frame. Instructions are received to modify a selected definition of the set of definitions. The selected definition is modified to create a new selected definition.

32 Claims, 35 Drawing Sheets



PTO/SB/44 (09-07)
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 8,020,083

APPLICATION NO.: 11/932,585

ISSUE DATE : September 13, 2011

INVENTOR(S) : John Albert KEMBEL et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page, amend Item (63) to read:

(63) Continuation of application No. 09/558,922, filed on Apr. 26, 2000, now Pat. No. 7,756,967, and application No. 09/558.925, filed on Apr. 26, 2000, now Pat. No. 7,660,868.

Title page, insert Item (60) as follows:

(60) Provisional application No. 60/131,083, filed on Apr. 26, 1999, provisional application No. 60/131,115, filed on Apr. 26, 1999, provisional application No. 60/131,114, filed on Apr. 26, 1999, provisional application No. 60/176,687, filed on Jan. 18, 2000, provisional application No. 60/176,699, filed on Jan. 18, 2000.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

PILLSBURY WINTHROP SHAW PITTMAN LLP
P. O. Box 10500
McLean, VA 22102

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 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: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Electronic Acknowledgement Receipt

EFS ID:	13315636
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	909
Filer:	D. Benjamin Esplin/Susan Trader
Filer Authorized By:	D. Benjamin Esplin
Attorney Docket Number:	043311-0381669
Receipt Date:	23-JUL-2012
Filing Date:	31-OCT-2007
Time Stamp:	15:57:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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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
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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.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/932,585	09/13/2011	8020083	043311-0381669	2646

909 7590 08/24/2011

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

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 938 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):

John Albert Kembel, Palo Alto, CA;
George Andrew Kembel, Menlo Park, CA;
Daniel S. Kim, Palo Alto, CA;
John Russell, Palo Alto, CA;
Jake Wobbrock, Palo Alto, CA;
Geoffrey S. Kembel, Menlo Park, CA;
Jeremy L. Kembel, Palo Alto, CA;
Joseph A. Bella, San Francisco, CA;
Sridhar T. Devulkar, San Jose, CA;
Mark Wallin, Mountain View, CA;

OPAP IAP23
AUG 1 1 2011
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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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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.

HANNAH TRAN	(Depositor's name)
[signature]	(Signature)
8/10/2011	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/932,585	10/31/2007	John Albert Kembel	043311-0381669	2646

TITLE OF INVENTION: SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$0	$0	$755	08/15/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, CHAU T	2177	715-201000

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,
(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.

1 PILLSBURY WINTHROP SHAW PITTMAN, LLP
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: MAINSTREAM SCIENTIFIC, LLC
(B) RESIDENCE: (CITY and STATE OR COUNTRY): MOUNTAIN VIEW, CA

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 _____

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☐ 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 credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature [signature] Date 08/10/2011
Typed or printed name WILFRED LAM Registration No. 41,923

This collection of information 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.

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PAGE 2/3 * RCVD AT 8/11/2011 1:09:12 PM [Eastern Daylight Time] * SVR:W-PTOFAX-003/2 * DNIS:2732885 * CSID: * DURATION (mm-ss):02-06

O P A P
AUG 11 2011
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Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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Total Number of Pages in This Submission: 3

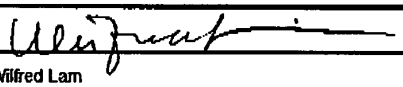
Application Number	11/932,585
Filing Date	10/31/2007
First Named Inventor	John Albert Kembel
Art Unit	2177
Examiner Name	Nguyen, Chau T
Attorney Docket Number	043311-0381669

ENCLOSURES *(Check all that apply)*

- [x] Fee Transmittal Form
  - [x] Fee Attached
- [ ] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
  - [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
  - [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- [ ] Proprietary Information
- [ ] Status Letter
- [x] Other Enclosure(s) (please identify below): PTO-2038

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Mainstream Scientific, LLC		
Signature			
Printed name	Wilfred Lam		
Date	10 August 2011	Reg. No.	41,923

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Hannah Tran	Date	10 August 2011

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 2 hours 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.

PAGE 1/3 * RCVD AT 8/11/2011 1:09:12 PM [Eastern Daylight Time] * SVR:W-PTOFAX-003/2 * DNIS:2732885 * CSID: * DURATION (mm-ss):02-06

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

Change(s) applied to document, /G.R.P./ 6/15/2011

/CN/	42	6538673		2003-03-03	Maslov	
/CN/	43	6549612		2003-04-15	Gifford et al.	
/CN/	44	6560639		2003-05-06	Dan et al.	
/CN/	45	6594682		2003-07-03	Peterson et al.	
/CN/	46	6369840		2002-04-09	Barnett et al.	
/CN/	47	6751606		2004-06-15	Fries et al.	
/CN/	48	6784900		2004-08-04	Dobronsky et al.	
/CN/	49	6816880		2004-11-09	Strandberg et al.	
/CN/	50	6842779		2005-01-11	Nishizawa	

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

Change(s) applied to document, /GRP/ 6/15/2011

/CN/	31	6297819		2001-10-01	Furst	
/CN/	32	6314451		2001-11-06	Landsman et al.	
/CN/	33	6341305		2002-01-22	Wolfe	
/CN/	34	6393407		2002-05-21	Middleton et al.	
/CN/	35	6411992		2002-06-25	Srinivasan et al.	
/CN/	36	6418440		2002-07-09	Kuo et al.	
/CN/	37	6434563		2002-08-02	Pasquali et al.	
/CN/	38	6460029		2002-10-02	Fries et al.	
/CN/	39	6484149		2002-11-19	Jammes et al	
/CN/	40	6487566		2002-11-02	Sundaresan	
/CN/	41	6537324		2003-03-25	Tabata et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

/CN/	20	6018344		2000-01-25	Harada et el.	
/CN/	21	6026433		2000-02-15	D'Arlach et al.	
/CN/	22	6065044		2000-05-16	Ogasawara	
/CN/	23	6133916		2000-10-01	Bukszar et al.	
/CN/	24	6161112		2000-12-12	Cragun et al.	
/CN/	25	6177936		2001-01-23	Cragun	
/CN/	26	6199082		2001-03-01	Ferrel et al.	
/CN/	27	6230173		2005-05-01	Ferrel et al.	
/CN/	28	6237030		2001-05-22	Adams et al.	
/CN/	29	6268856		2001-07-31	Bruck et al.	
/CN/	30	6275854		2001-08-14	Himmel et al	

Change(s) applied to document.
/G.R.P./
6/15/2011

Change(s) applied to document, /S.J.W./ 5/25/2011

Content" (attorney docket no. IMS 07-05-03); Non-Provisional Application ser. no. 11/932,427 ~~xx/xxx,xxx~~, filed October 31, 2007, titled "Component For Coordinating The Accessing And Rendering Of An Application Media Package" (attorney docket no. IMS 07-05-04); Non-Provisional Application ser. no. 11/932,456 ~~xx/xxx,xxx~~, filed October 31, 2007, titled "Tracking and Tracing User Activity with Application Media Packages" (attorney docket no. IMS 07-05-05); Non-Provisional Application ser. no. 11/932,553 ~~xx/xxx,xxx~~, filed October 31, 2007, titled "Displaying Time-varying Internet based Data using Media Application Packages" (attorney docket no. IMS 07-05-06); Non-Provisional Application ser. no. 11/932,630 ~~xx/xxx,xxx~~, filed October 31, 2007, titled "Methods of Obtaining Application Media Packages" (attorney docket no. IMS 07-05-08); Non-Provisional Application ser. no. 11/932,663 ~~xx/xxx,xxx~~, filed October 31, 2007, titled "Indexing, Sorting, and Categorizing Dots" (attorney docket no. IMS 07-05-09); Non-Provisional Application ser. no. 11/932,692 ~~xx/xxx,xxx~~, filed October 31, 2007, titled "System and Methods of Messaging between Application Media Packages" (attorney docket no. IMS 07-05-10); and, Non-Provisional Application ser. no. 11/932,763 ~~xx/xxx,xxx~~, filed October 31, 2007, titled "Component For Accessing And Displaying Internet Content In Association With a Web Browser Application" (attorney docket no. IMS 07-05-11).

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[0003] A portion of the disclosure of this patent document contains material which is subject to copyright protection. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure as it appears in the Patent and Trademark Office patent fie or records, but otherwise reserves all copyright rights whatsoever.

SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation of and incorporates by reference U.S. Non-Provisional Patent Application ser. no. 09/558,922, filed April 26, 2000, which claims priority from and incorporates by reference U.S. Provisional Application ser. nos. 60/131,083, filed April 26, 1999, 60/131,114, filed April 26, 1999, 60/131,115, filed April 26, 1999, 60/176,687, filed January 18, 2000, and 60/176,699, filed January 18, 2000. The present application claims priority to U.S. Non-Provisional Patent Application ser. no. 09/558,925, filed April 26, 2000 and each of the aforementioned applications to which it claims priority.

[0002] The present application is also related to and incorporates by reference the following U.S. Patent Applications: Non-Provisional Application ser. no. 09/558,923, filed April 26, 2000; Non-Provisional Application ser. no. 09/558,924, filed April 26, 2000; Non-Provisional Application ser. no. 09/558,925, filed April 26, 2000; Non-Provisional Application ser. no. ~~xx/xxx,xxx~~ 11/932,286, filed October 31, 2007, titled "Component For Accessing And Displaying Internet Content" (attorney docket no. IMS 07-05-01); Non-Provisional Application ser. no. ~~xx/xxx,xxx~~ 11/932,340, filed October 31, 2007, titled "Server Including Components For Accessing And Displaying Internet Content And For Providing Same To A Client" (attorney docket no. IMS 07-05-02); Non-Provisional Application ser. no. ~~xx/xxx,xxx~~ 11/932,392, filed October 31, 2007, titled "Method For Accessing And Displaying Internet

Change(s) applied to document, /S.J.W./ 5/25/2011

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Bib Data Sheet

CONFIRMATION NO. 2646

SERIAL NUMBER	FILING OR 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/932,585	10/31/2007 RULE	715	2177	043311-0381669

APPLICANTS

John Albert Kembel, Palo Alto, CA;
George Andrew Kembel, Menlo Park, CA;
Daniel S. Kim, Palo Alto, CA;
John Russell, Palo Alto, CA;
Jake Wobbrock, Palo Alto, CA;
Geoffrey S. Kembel, Menlo Park, CA;
Jeremy L. Kembel, Palo Alto, CA;
Joseph A. Bella, San Francisco, CA;
Sridhar T. Devulkar, San Jose, CA;
Mark Wallin, Mountain View, CA;

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

This application is a CON of 09/558,922 04/26/2000 PAT 7,756,967

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

IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** SMALL ENTITY **
** 11/21/2007

		STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
Foreign Priority claimed	☐ yes ☒ no	CA	14	3	1
35 USC 119 (a-d) conditions met	☐ yes ☒ no ☐ Met after Allowance				
Verified and Acknowledged	Examiner's Signature Initials				

ADDRESS

909

TITLE

SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

FILING FEE RECEIVED		
630	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

Interview Summary	Application No.	Applicant(s)	
	11/932,585	KEMBEL ET AL.	
	Examiner	Art Unit	
	CHAU NGUYEN	2177	

All participants (applicant, applicant's representative, PTO personnel):

(1) *CHAU NGUYEN*. (3)_____.

(2) *D. Benjamin Esplin, Reg. No. 58,297*. (4)_____.

Date of Interview: *31 May 2011*.

Type: a)☒ Telephonic b)☐ Video Conference
c)☐ Personal [copy given to: 1)☐ applicant 2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes e)☒ No.
If Yes, brief description: _____.

Claim(s) discussed: *NONE*.

Identification of prior art discussed: *NONE*.

Agreement with respect to the claims f)☒ was reached. g)☐ was not reached. h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Mr. Esplin, applicant's representative, has authorized to delete the appendix on pages 110-145 from the Specification.*.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

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. See Summary of Record of Interview requirements on reverse side or on attached sheet.

/Chau Nguyen/ Primary Examiner, Art Unit 2177	

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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NOTICE OF ALLOWANCE AND FEE(S) DUE

909 7590 05/13/2011

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
NGUYEN, CHAU T	
ART UNIT	PAPER NUMBER
2177	

DATE MAILED: 05/13/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/932,585	10/31/2007	John Albert Kembel	043311-0381669	2646

TITLE OF INVENTION: SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$0	$0	$755	08/15/2011

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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)

909 7590 05/13/2011
PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

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.

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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.
11/932,585	10/31/2007	John Albert Kembel	043311-0381669	2646

TITLE OF INVENTION: SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	$755	$0	$0	$755	08/15/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, CHAU T	2177	715-201000

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,
(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.
1 _____
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 credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- ❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/932,585	10/31/2007	John Albert Kembel	043311-0381669	2646

909 7590 05/13/2011

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
NGUYEN, CHAU T	

ART UNIT	PAPER NUMBER
2177	

DATE MAILED: 05/13/2011

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

The Patent Term Adjustment to date is 621 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 621 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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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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.

Notice of Allowability	Application No.	Applicant(s)	
	11/932,585	KEMBEL ET AL.	
	Examiner	Art Unit	
	CHAU NGUYEN	2177	

-- 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 *04/28/2011*.

2. ☒ The allowed claim(s) is/are *2-9 and 11-18*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   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.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ 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. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Chau Nguyen/
Primary Examiner, Art Unit 2177

Notice of References Cited	Application/Control No. 11/932,585	Applicant(s)/Patent Under Reexamination KEMBEL ET AL.	
	Examiner CHAU NGUYEN	Art Unit 2177	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,496,203	12-2002	Beaumont et al.	715/762
*	B	US-6,834,302	12-2004	Harvell, Joseph C.	709/224
*	C	US-6,662,341	12-2003	Cooper et al.	715/234
*	D	US-6,115,040	09-2000	Bladow et al.	715/741
*	E	US-2002/0089536	07-2002	Dang, Nga T.	345/749
*	F	US-2002/0091697	07-2002	HUANG et al.	707/10
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L16	1519	(generat$4 creat$4) with (definition gui interface window frame) with (bas$4 accord$4) with template	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/05/05 15:44
L15	35451	709/203,223,224.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/05/05 15:44
L14	13537	709/224.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/05/05 15:43
L13	3149	715/201,741,762.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/05/05 15:43
L12	54	11 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/05/05 15:05
L11	430	us$4 near3 internet with (without) with browser	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/05/05 15:04
L1	1	"7792947".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/05/05 14:47

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L10	274	us$4 near3 internet with (without) with browser	US-PGPUB	OR	ON	2011/05/05 15:03
L9	0	((package near2 template) and ((without independent $3 outside) with browser)). CLM.	US-PGPUB	OR	ON	2011/05/05 15:02
		((package near2 template) and ((without independent $3 outside) with browser))). CLM.	US-PGPUB	OR	ON	2011/05/05 15:01

L8	7	(application with media with package with definition).CLM.	US-PGPUB	OR	ON	2011/05/05 14:59
L7	1	((package with template with definition) and ((without independent outside) with browser)).CLM.	US-PGPUB	OR	ON	2011/05/05 14:59
L6	0	((generat$4 creat$4) with (definition gui interface window frame) with (bas$4 accord$4) with template and ((without outside independent) with browser)).CLM.	US-PGPUB	OR	ON	2011/05/05 14:58
L5	34	((gui (user near3 interface)) with ((independent$4 without outside) with browser) and (color size position location)).CLM.	US-PGPUB	OR	ON	2011/05/05 14:56
L4	80	3 and (color size position location)	US-PGPUB	OR	ON	2011/05/05 14:56
L3	84	((gui (user near3 interface)) with ((independent$4 without outside) with browser)).CLM.	US-PGPUB	OR	ON	2011/05/05 14:55
L2	34	((gui (user near3 interface)) with (independent$4 with browser)).CLM.	US-PGPUB	OR	ON	2011/05/05 14:55

5/ 5/ 11 4:03:13 PM
C:\ Documents and Settings\ CNguyen13\ My Documents\ EAST\ workspaces\ 11932585.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11932585	KEMBEL ET AL.
	Examiner	**Art Unit**
	CHAU NGUYEN	2176

✓	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	09/12/2010	02/22/2011	05/05/2011						
	1	✓	✓	-						
1	2	✓	O	=						
2	3	✓	✓	=						
3	4		✓	=						
4	5		✓	=						
5	6		✓	=						
6	7		✓	=						
7	8		✓	=						
8	9		✓	=						
	10		✓	-						
9	11		O	=						
10	12		✓	=						
11	13		✓	=						
12	14		✓	=						
13	15		✓	=						
14	16		✓	=						
15	17		✓	=						
16	18		✓	=						

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11932585	KEMBEL ET AL.
	Examiner	**Art Unit**
	CHAU NGUYEN	2177

ORIGINAL		INTERNATIONAL CLASSIFICATION										
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED					
715	201	G	0	6	F	17 / 00 (2006.0)						
CROSS REFERENCE(S)		G	0	6	F	15 / 173 (2006.01.01)						

CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
715	741	762			
709	224				

☐ 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	2														
2	3														
3	4														
4	5														
5	6														
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11	13														
12	14														
13	15														
14	16														
15	17														
16	18														

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	16	
/CHAU NGUYEN/ Primary Examiner.Art Unit 2177	05/05/2011	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	3

U.S. Patent and Trademark Office

Part of Paper No. 20110505

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11932585	KEMBEL ET AL.
	Examiner	Art Unit
	CHAU NGUYEN	2176

SEARCHED

Class	Subclass	Date	Examiner
709	203	09/12/2010	cn
	223	09/12/2010	cn
	224	09/12/2010	cn
715	201	05/05/2011	cn
	741	05/05/2011	cn
	762	05/05/2011	cn
709	224	05/05/2011	cn

SEARCH NOTES

Search Notes	Date	Examiner
Search on East Reports	09/12/2010	cn
Inventor Search for Double Patenting	09/12/2010	cn
Updated Search on East Reports	02/15/2011	cn
	02/16/2011	cn
	02/22/2011	cn
Inventor Search for Double Patenting	02/15/2011	cn
Updated Search on East Reports	05/05/2011	cn
NPL search using Google Search Engine	05/05/2011	cn
Interference Search using PGPUB database	05/05/2011	cn

INTERFERENCE SEARCH

Class	Subclass	Date	Examiner
715	201	05/05/2011	cn
	741	05/05/2011	cn
	762	05/05/2011	cn
709	224	05/05/2011	cn

	/CHAU NGUYEN/ Primary Examiner.Art Unit 2177

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	11/932,585	KEMBEL ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 4/28/11	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
Felicia D. Roberts 7,792,947

U.S. Patent and Trademark Office

Attorney Docket: 043311-0381669

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF	:	John Albert KEMBEL, *et al.*
SERIAL NO.	:	11/932,585
CONFIRMATION NO.:	:	2646
FILING DATE	:	October 31, 2007
ART UNIT	:	2176
EXAMINER	:	HGUYEN, C.T.
FOR	:	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

RESPONSE

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action mailed **February 28, 2011** (the "Office Action"), please consider the following amendments and remarks in the above-identified application:

Amendments to the Claims are reflected in the listing of claims beginning on page **2** of this paper.

Remarks/Arguments begin on page **8** of this paper.

It is believed that no extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 033975 (Ref. No. 043311-0381669).

CLAIM AMENDMENTS

This **listing of claims** will replace all prior versions, and listings, of claims in the application:

1. **(Cancelled)**

2. **(Currently Amended)** ~~The client device of claim 1, wherein the first networked information monitor template further comprises~~ A client device, the client device comprising:

electronic storage having stored thereon a plurality of networked information monitor templates defining a plurality of networked information monitors, the plurality of networked information monitor templates comprising a first networked information monitor template defining a first networked information monitor, wherein the first networked information monitor template comprises:

(1) a content reference that comprises a network location at which content for the first networked information monitor is accessible via a TCP/IP protocol;

(2) a definition of a graphical user interface of the first networked information monitor that lacks controls for manually navigating a network, and that includes a frame within which content received from the network location can be displayed, and frame characteristics defining one or more a color, a size, or a position on the electronic display of the frame; and

(3) instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the TCP/IP protocol, and (ii) to cause the first networked information monitor to generate the graphical user interface of the first networked information monitor with the content received from the network location via the TCP/IP protocol within the frame;

an electronic display; and

one or more processors configured to access the first networked information monitor template, and to execute the first networked information monitor template such that the graphical user interface of the first networked information monitor is presented to a user on the electronic display having content received from the content reference therein.

3. **(Currently Amended)** The client device of claim 2 ~~1~~, wherein the first networked information monitor template further comprises control characteristics that define one or more controls that are usable by the user to interact with or control the first networked information monitor.

4. **(Previously Presented)** The client device of claim 3, wherein the control characteristics define visual representations of the controls that are included in the graphical user interface of the first networked information monitor.

5. **(Currently Amended)** The client device of claim 2 ~~1~~, wherein the plurality of networked information monitor templates further comprises a second networked information monitor template defining a second networked information monitor, wherein the second networked information monitor template comprises:

(1) a second content reference that comprises a second network location, which is different from the network location in the content reference of the first networked information monitor template, at which content for the second networked information monitor is accessible via the TCP/IP protocol; and

(2) a definition of a graphical user interface of the second networked information monitor that lacks controls for manually navigating a network, and that includes a second frame within which content received from the second network location can be displayed; and

(3) instructions configured (i) to cause the second networked information

monitor to request content from the second network location in the second content reference via the TCP/IP protocol, and (ii) to cause the second networked information monitor to generate the graphical user interface of the second networked information monitor with the content received from the second network location via the TCP/IP protocol within the frame.

6. **(Previously Presented)** The client device of claim 5, wherein the one or more processors are further configured to execute the second networked information monitor template such that the graphical user interface of the second networked information monitor is presented to the user on the electronic display separately and discretely from the user interface of the first networked information monitor, and having content therein received from the second content reference.

7. **(Currently Amended)** The client device of claim 2 ~~1~~, wherein the one or more processors are further configured to transmit a request to a server for a further networked information monitor template responsive to reception of a user request for a further networked information monitor defined by the further networked information monitor template.

8. **(Previously Presented)** The client device of claim 7, wherein the electronic storage is configured to electronically store the received further networked information monitor template, responsive to reception of the further networked information monitor template from the server.

9. **(Previously Presented)** The client device of claim 8, wherein the one or more processors are further configured to execute the further networked information monitor template.

10. **(Cancelled)**

11. **(Currently Amended)** ~~The method of claim 10, wherein the first networked information monitor template further comprises~~ A computer-implemented method of presenting Internet content to a user, the method being implemented in a client device comprising a electronic storage, an electronic display, and one or more processors, the method comprising:

storing to the electronic storage a plurality of networked information monitor templates defining a plurality of networked information monitors, the plurality of networked information monitor templates comprising a first networked information monitor template defining a first networked information monitor, wherein the first networked information monitor template comprises:

(1) a content reference that comprises a network location at which content for the first networked information monitor is accessible via a TCP/IP protocol; and

(2) a definition of a graphical user interface of the first networked information monitor that lacks controls for manually navigating a network, and that includes a frame within which content received from the network location can be displayed, and frame characteristics defining one or more a color, a size, or a position on the electronic display of the frame; and

(3) instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the TCP/IP protocol, and (ii) to cause the first networked information monitor to generate the graphical user interface of the first networked information monitor with the content received from the network location via the TCP/IP protocol within the frame;

accessing the first networked information monitor template in the electronic storage; and

executing the first networked information monitor template on the one or more processors such that the graphical user interface of the first networked information

monitor is presented to the user on the electronic display having therein content received from the content reference.

12. **(Currently Amended)** The method of claim 11 ~~10~~, wherein the first networked information monitor template further comprises control characteristics that define one or more controls that are usable by the user to interact with or control the first networked information monitor.

13. **(Previously Presented)** The method of claim 12, wherein the control characteristics define visual representations of the controls that are included in the graphical user interface of the first networked information monitor.

14. **(Currently Amended)** The method of claim 11 ~~10~~, wherein the plurality of networked information monitor templates further comprises a second networked information monitor template defining a second networked information monitor, wherein the second networked information monitor template comprises:

(1) a second content reference that comprises a second network location, which is different from the network location in the content reference of the first networked information monitor template, at which content for the second networked information monitor is accessible via the TCP/IP protocol; and

(2) a definition of a graphical user interface of the second networked information monitor that lacks controls for manually navigating a network, and that includes a second frame within which content received from the second network location can be displayed; and

(3) instructions configured (i) to cause the second networked information monitor to request content from the second network location in the second content reference via the TCP/IP protocol, and (ii) to cause the second networked information monitor to generate the graphical user interface of the second networked information

monitor with the content received from the second network location via the TCP/IP protocol within the frame.

15. **(Previously Presented)** The method of claim 14, further comprising executing the second networked information monitor template on the one or more processors such that the graphical user interface of the second networked information monitor is presented to the user on the electronic display separately and discretely from the user interface of the first networked information monitor, and having content therein received from the second content reference.

16. **(Currently Amended)** The method of claim 11 ~~10~~, further comprising transmitting a request to a server for a further networked information monitor template responsive to reception of a user request for a further networked information monitor defined by the further networked information monitor template.

17. **(Previously Presented)** The method of claim 16, further comprising, responsive to reception of the further networked information monitor template from the server, storing the received further networked information monitor template to the electronic storage.

18. **(Previously Presented)** The method of claim 17, further comprising executing the further networked information monitor template on the one or more processors.

REMARKS

By this paper, claims 2, 3, 5, 7, 11, 12, 14, and 16 are amended, no claims are added, and claims 1 and 10 are cancelled without prejudice and without disclaimer. Accordingly, claims 2-9 and 11-18 are all of the pending claims. Support for the amendments presented above is provided throughout the specification and claims as originally filed. Applicants expressly reserve the right to prosecute the subject matter of the unamended and/or cancelled claims, or any other subject matter supported by the Specification, in one or more continuation applications. In view of the foregoing amendments and the following remarks, reconsideration and allowance of all the pending claims is anticipated.

Amendment After Final Rejection

The amendments presented above have been made to place the application in condition for allowance. Specifically, subsequent to entry of the amendment, all of the pending claims will include subject matter expressly indicated in the Office Action to be allowable. As such, the amendment should be entered to allow the application proceed to allowance and issue.

Double Patenting

Claims 1-4, 7-13, and 16-18 currently stand rejected on the ground of nonstatutory obviousness-type double patenting as allegedly being unpatentable over claims 1-5 and 11-15 of U.S. Patent No. 7,792,947 in view of U.S. Patent No. 6,101,510 to Stone *et al.* ("Stone"). Applicants traverse this rejection at least on the grounds that claims 1-5 and 11-15 and the cited sections of Stone, alone or in combination, do not teach or suggest all of the features of the claimed invention. Nevertheless, solely in an effort to expedite prosecution, Applicants have filed a Terminal Disclaimer herewith to overcome this rejection. For at least this reason the rejection of claims 1-4, 7-13, and 16-18 should be withdrawn.

Claim Rejections – 35 USC § 112, 2¶

Claims 1 and 11 currently stand rejected under 35 U.S.C. § 112, second paragraph, for allegedly being indefinite. Without acknowledging the propriety of this rejection, claims 1 and 11 have been cancelled. As such, this rejection is believed to be moot.

Claim Rejections – 35 USC § 103

Claims 1, 3-10, and 12-18 currently stand rejected under 35 U.S.C. § 103(a) as allegedly being unpatentable over U.S. Patent No. 6,006,252 to Wolfe ("Wolfe") in view of Stone. Without acknowledging the propriety of this rejection Applicants have cancelled independent claims 1 and 10, and have changed the dependency of claims 3-9 and 12-18 to a corresponding one of claims 2 and 11. The Office Action acknowledges that the proposed combination of Wolfe and Stone does not teach or suggest the features of claims 2 and 11 (*see supra*). As such, the rejection of claims 3-9 and 12-18 under § 103 should be withdrawn by virtue of the dependency of these claims, as well as for the features they recite individually.

Allowable Subject Matter

Claims 2 and 11 have been indicated as including allowable subject matter. Claims 2 and 11 have been rewritten in independent form including all of the limitation of the base claims 1 and 10, respectively. As such, claims 2 and 11 are believed to be in condition for allowance.

CONCLUSION

Having addressed each of the foregoing objections and rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action and, as such, the application is in condition for allowance.

Notice to that effect is anticipated.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Date: April 28, 2011

Respectfully submitted,

By: /D. Benjamin Esplin/
D. Benjamin Esplin
Reg. No. 58,297

Customer No. 00909

PILLSBURY WINTHROP SHAW PITTMAN LLP
1650 Tysons Boulevard
McLean, Virginia 22102
619-234-5000

PTO/SB/26 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 043311-0381669

In re Application of: John Albert KEMBEL, et al.

Application No.: 11/932,585

Filed: October 31, 2007

For: SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

The owner*, Innovation Management Sciences, of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term **prior patent** No. 7,792,947 as the term of said prior patent is defined in 35 U.S.C. 154 and 173, and as the term of said **prior patent** is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 58,297

/D. Benjamin Esplin/ — Signature
April 28, 2011 — Date

D. Benjamin Esplin — Typed or printed name

619.234.5000 — Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

This collection of information is required by 37 CFR 1.321. 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.**

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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 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.

Electronic Patent Application Fee Transmittal	
Application Number:	11932585
Filing Date:	31-Oct-2007
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Filer:	D. Benjamin Esplin/Patricia Balero
Attorney Docket Number:	043311-0381669
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:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory or terminal disclaimer	1814	1	140	140
		Total in USD ($)		**140**

Electronic Acknowledgement Receipt	
EFS ID:	9980792
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	00909
Filer:	D. Benjamin Esplin/Patricia Balero
Filer Authorized By:	D. Benjamin Esplin
Attorney Docket Number:	043311-0381669
Receipt Date:	28-APR-2011
Filing Date:	31-OCT-2007
Time Stamp:	17:37:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$140
RAM confirmation Number	4597
Deposit Account	033975
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response-043311-0381669.pdf	331955 3921e886e91230d46b993674789ecd0cdf38f015	yes	10

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment/Req. Reconsideration-After Non-Final Reject	1	1
Claims	2	7
Applicant Arguments/Remarks Made in an Amendment	8	10

Warnings:

Information:

2	Terminal Disclaimer Filed	TerminalDisclaimer-043311-0381669.pdf	185182 14475178c9d631a8b040d24f6d29aba1edf45f12	no	2

Warnings:

Information:

3	Fee Worksheet (PTO-875)	fee-info.pdf	30321 61699e1aab4249266b0315893587d47c681bd145	no	2

Warnings:

Information:

Total Files Size (in bytes):	547458

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.

PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/932,585	10/31/2007	

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☒		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)		RATE ($)	FEE ($)
☒ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			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 $250 ($125 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	75		TOTAL	

APPLICATION AS AMENDED – PART II

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
	04/28/2011	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 16	Minus	** 20	= 0	X $26 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X $110 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

		(Column 1)		(Column 2)	(Column 3)	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	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.

Legal Instrument Examiner:
/TAMMY MCBETH BROWN/

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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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/932,585	10/31/2007	John Albert Kembel	043311-0381669	2646

909 7590 02/28/2011

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
NGUYEN, CHAU T	
ART UNIT	PAPER NUMBER
2176	

NOTIFICATION DATE	DELIVERY MODE
02/28/2011	ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket_ip@pillsburylaw.com
margaret.drosos@pillsburylaw.com

Office Action Summary	Application No.	Applicant(s)	
	11/932,585	KEMBEL ET AL.	
	Examiner	Art Unit	
	CHAU NGUYEN	2176	

-- 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 *13 December 2010*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ 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

4)☒ Claim(s) *1-18* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-18* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Amendment filed on 12/13/2010 has been entered. Claims 1-18 are pending.

Double Patenting

2. The nonstatutory 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 obviousness-type double patenting rejection is appropriate where the conflicting claims 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 conflicting 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.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-4, 7-9, 10-13 and 16-18 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-5 and 11-15 of U.S. Patent No. 7,792,947 in view of Stone et al. (Stone), US Patent No. 6,101,510.

Although the conflicting claims are not identical, they are not patentably distinct from each other because subject matter of claims 1-4, 7-9, 10-13 and 16-18 claimed in the instant application is fully disclosed in claims 1-5 and 11-15 of the U.S. Patent No. 7,792,947 except the limitation "content for the first network information monitor is accessible ***via the TCP/IP protocol***" and "a definition of a graphical user interface of the first networked information monitor that ***lacks controls for manually navigating a network***" (see emphasis added).

In the same field of endeavor, Stone discloses a web browser control allows application program developers to incorporate web browser functionality into application program (Abstract). Stone further discloses the application supports the presentation of the web browser control on the display of the computer by creating a window for an instance of the control, which displays it output and interacts with the user through a frame, and the web browser control supports a number of interesting features to implements using a stand-alone browser application (col. 3, lines 23-57). Stone further discloses Figure 2 showing the browser frame, which does not include controls for manually navigating a network. In addition, Stone discloses establishing a TCP/IP

connection on the browser frame with the remote computer for communication (col. 8, line 56 - col. 9, line 5).

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 Stone with U.S. Patent No. 7,792,947 to include content for the first network information monitor is accessible ***via the TCP/IP protocol*** and a definition of a graphical user interface of the first networked information monitor that ***lacks controls for manually navigating a network*** for the purpose of incorporating a web browser or web browser functionality into an application program.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1 and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. Claim 1 recites the limitation "accessible via the TCP/IP" in line 12. There is insufficient antecedent basis for this limitation in the claim. Claim 11 has similar issue. Appropriate correction is required.

Claim Rejections - 35 USC § 103

7. 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.

8. Claims 1, 3-10 and 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wolfe, US Patent No. 6,006,252, and further in view of Stone et al. (Stone), US Patent No. 6,101,510.

9. As to independent claims 1 and 10, Wolfe discloses a client device, the client device comprising:

electronic storage having stored thereon a plurality of networked information monitor templates defining a plurality of networked information monitors (Figure 16, col. 2, lines 29-30 and col. 9, lines 20-45: a database, that may be used by a computer server, includes a look-up table containing a collection of document names (networked information monitor templates)), the plurality of networked information monitor templates comprising a first networked information monitor template defining a first networked information monitor (col. 4, lines 8-47: the collection of document names includes a document entitled “Flying Over The Precipice” (a first networked information monitor template) which provides information about the "Flying Over The Precipice"), wherein the first networked information monitor template comprises:

(1) a content reference that comprises a network location at which content for the first networked information monitor is accessible via protocol (col. 4, lines 59-66 and Figure 3: the document "Flying Over the Precipice" contains advertisement link 312 displayed at the top of the document, which promotes another Universal Theatre movie

"Time Will Tell", and selection of such link may retrieve and display information about the advertised movie; col. 6, lines 15-28: via a protocol);

(2) a definition of a graphical user interface of the first networked information monitor, and that includes a frame within which content received from the network location can be displayed (col. 1, lines 33-55); and

(3) instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the protocol, and (ii) to cause the first networked information monitor to generate the graphical user interface of the first networked information monitor with the content received from the network location via the TCP/IP protocol within the frame (col. 4, lines 59-66 and Figure 3: the document "Flying Over the Precipice" contains advertisement link 312 displayed at the top of the document, which promotes another Universal Theatre movie "Time Will Tell", and selection of such link may retrieve and display in the same user interface 306 (which is the window or frame defined by the Universal Theatres, Inc. server (frame characteristics)), the information about the advertised movie);

an electronic display (col. 1, lines 33-55: a client computer having a display screen); and

one or more processor configured to access the first networked information monitor template, and to execute the first networked information monitor template such that the graphical user interface of the first networked information monitor is presented to a user on the electronic display having content received from the content reference therein (col. 6, lines 29-59: the browser executing on computer 902 (first client device)

sends a request to the server for a document (networked information monitor template) stored on the server, i.e., the requested document might be the “Flying Over the Precipice” document shown in Figures 3 and 4, the “Flying Over the Precipice” includes the identity of the document or resource on that particular server, i.e., the particular server is the Universal Theatres, Inc. server (frame characteristics) and the specific resource on that server is the "Flying Over the Precipice” document, both displayed on the title bar in Figures 3 and 4, and the server responds to this request by sending the requested document to the client computer).

Wolfe, however, does not explicitly disclose content for the first network information monitor is accessible ***via the TCP/IP protocol***" and “a definition of a graphical user interface of the first networked information monitor that ***lacks controls for manually navigating a network***” (see emphasis added).

In the same field of endeavor, Stone discloses a web browser control allows application program developers to incorporate web browser functionality into application program (Abstract). Stone further discloses the application supports the presentation of the web browser control on the display of the computer by creating a window for an instance of the control, which displays it output and interacts with the user through a frame, and the web browser control supports a number of interesting features to implements using a stand-alone browser application (col. 3, lines 23-57). Stone further discloses Figure 2 showing the browser frame, which does not include controls for manually navigating a network. In addition, Stone discloses establishing a TCP/IP

connection on the browser frame with the remote computer for communication (col. 8, line 56 - col. 9, line 5).

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 Stone with Wolfe to include content for the first network information monitor is accessible ***via the TCP/IP protocol*** and a definition of a graphical user interface of the first networked information monitor that ***lacks controls for manually navigating a network*** for the purpose of incorporating a web browser or web browser functionality into an application program.

10. As to dependent claims 3 and 12, Wolfe does not teach, but Stone teaches wherein the first networked information monitor template further comprises control characteristics that define one or more controls that are usable by the user to interact with or control the first networked information monitor (Stone, col. 9, lines 37-65).

11. As to dependent claims 4 and 13, Wolfe does not disclose but Stone discloses wherein the control characteristics define visual representations of the controls that are included in the graphical user interface of the first networked information monitor (col. 17, lines 41-56).

12. As to dependent claims 5 and 14, Wolfe discloses wherein the plurality of networked information monitor templates further comprises a second networked information monitor template defining a second networked information monitor (Figure

16 and col. 9, lines 20-45), wherein the second networked information monitor template comprises:

(1) a second content reference that comprises a second network location, which is different from the network location in the content reference of the first networked information monitor template, at which content for the second networked information monitor is accessible via the protocol (col. 4, lines 59-66 and Figure 3: the document "Flying Over the Precipice" contains advertisement link 312 displayed at the top of the document, which promotes another Universal Theatre movie "Time Will Tell", and selection of such link may retrieve and display information about the advertised movie; col. 6, lines 15-28: via a protocol); and

(2) a definition of a graphical user interface of the second networked information monitor, and that includes a second frame within which content received from the second network location can be displayed (col. 1, lines 33-55); and

(3) instruction configured (i) to cause the second networked information monitor to request content from the second network location in the second content reference via the protocol, and (ii) to cause the second networked information monitor with the content received from the second networked location via the protocol within the frame (col. 4, lines 59-66 and Figure 3: the document "Flying Over the Precipice" contains advertisement link 312 displayed at the top of the document, which promotes another Universal Theatre movie "Time Will Tell", and selection of such link may retrieve and display in the same user interface 306

(which is the window or frame defined by the Universal Theatres, Inc. server (frame characteristics)), the information about the advertised movie).

Wolfe, however, does not explicitly disclose content for the first network information monitor is accessible ***via the TCP/IP protocol***" and "a definition of a graphical user interface of the first networked information monitor that ***lacks controls for manually navigating a network***" (see emphasis added).

In the same field of endeavor, Stone discloses a web browser control allows application program developers to incorporate web browser functionality into application program (Abstract). Stone further discloses the application supports the presentation of the web browser control on the display of the computer by creating a window for an instance of the control, which displays it output and interacts with the user through a frame, and the web browser control supports a number of interesting features to implements using a stand-alone browser application (col. 3, lines 23-57). Stone further discloses Figure 2 showing the browser frame, which does not include controls for manually navigating a network. In addition, Stone discloses establishing a TCP/IP connection on the browser frame with the remote computer for communication (col. 8, line 56 - col. 9, line 5).

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 Stone with Wolfe to include content for the first network information monitor is accessible ***via the TCP/IP protocol*** and a definition of a graphical user interface of the first networked information monitor that

lacks controls for manually navigating a network for the purpose of incorporating a web browser or web browser functionality into an application program.

13. As to dependent claims 6 and 15, Wolfe discloses wherein the one or more processor are further configured to execute the second networked information monitor template such that the graphical user interface of the second networked information monitor is presented to the user on the electronic display separately and discretely from the user interface of the first networked information monitor, and having content therein received from the second content reference (col. 6, lines 29-59: the browser executing on computer 902 (first client device) sends a request to the server for a document (networked information monitor template) stored on the server, i.e., the requested document might be the “Flying Over the Precipice” document shown in Figures 3 and 4, the “Flying Over the Precipice” includes the identity of the document or resource on that particular server, i.e., the particular server is the Universal Theatres, Inc. server (frame characteristics) and the specific resource on that server is the "Flying Over the Precipice” document, both displayed on the title bar in Figures 3 and 4, and the server responds to this request by sending the requested document to the client computer).

14. As to dependent claims 7 and 16, Wolfe discloses wherein the one or more processor are further configured to transmit a request to a server for a further networked information monitor template responsive to reception of a user request for a further

networked information monitor defined by the further networked information monitor template (col. 6, lines 29-59 and Figures 3-4).

15. As to dependent claims 8 and 17, Wolfe discloses wherein the electronic storage is configured to electronically store the received further networked information monitor template, responsive to reception of the further networked information monitor template from the server (col. 6, lines 29-59 and Figures 3-4).

16. As to dependent claims 9 and 18, Wolfe discloses wherein the one or more processor are further configured to execute the further networked information monitor template (col. 6, lines 29-59 and Figures 3-4).

Allowable Subject Matter

17. Claims 2 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

18. Applicant's arguments with respect to newly amended claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (571) 272-4092. The examiner can normally be reached on 8:30 am – 5:30 pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton, can be reached on (571) 272-4137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will change from 703-872-9306 to 571-273-8300.

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).

/Chau Nguyen/
Primary Examiner, Art Unit 2176

Notice of References Cited	Application/Control No. 11/932,585	Applicant(s)/Patent Under Reexamination KEMBEL ET AL.	
	Examiner CHAU NGUYEN	Art Unit 2176	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,101,510	08-2000	Stone et al.	715/234
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11932585	KEMBEL ET AL.
	Examiner	Art Unit
	CHAU NGUYEN	2176

SEARCHED			
Class	Subclass	Date	Examiner
709	203	09/12/2010	cn
	223	09/12/2010	cn
	224	09/12/2010	cn

SEARCH NOTES		
Search Notes	Date	Examiner
Search on East Reports	09/12/2010	cn
Inventor Search for Double Patenting	09/12/2010	cn
Updated Search on East Reports	02/15/2011	cn
	02/16/2011	cn
	02/22/2011	cn
Inventor Search for Double Patenting	02/15/2011	cn

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11932585	KEMBEL ET AL.
	Examiner	**Art Unit**
	CHAU NGUYEN	2176

✓	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	09/12/2010	02/22/2011							
	1	✓	✓							
	2	✓	O							
	3	✓	✓							
	4		✓							
	5		✓							
	6		✓							
	7		✓							
	8		✓							
	9		✓							
	10		✓							
	11		O							
	12		✓							
	13		✓							
	14		✓							
	15		✓							
	16		✓							
	17		✓							
	18		✓							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L14	1	"6006252".pn. and (gui interface window frame)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 17:59
L13	1	"6006252".pn. and (gui interface frame)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 17:58
L12	1	"6101510".pn. and frame	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 17:52
L11	1	"6101510".pn. and appearance	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 17:47
L10	16	(template with frame with defin$4 with (color size location position) with (display$4 screen))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 17:06
L9	1	6 and (frame size color location position)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 16:54
L8	1	6 and (gui frame interface size color location position)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:46
L7	1	6 and (gui frame interface)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:46
L6	1	"6101510".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:46
L5	1	1 and (gui frame interface)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:44
L4	1	1 and (display$4 screen)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:31

L3	1	1 and protocol	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:09
L2	1	1 and tcp$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:08
L1	1	"6006252".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/22 15:07
S57	106	S56 not S49	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:23
S56	106	S55 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:23
S55	440	(gui (user near3 interface)) with (independent$4 with browser)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:22
		(gui (user near3 interface)) with (independent$4 with browser))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:22
S54	1	S53 and (size position color)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:18
S53	1	"5848246".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:18
S52	1	S50 and independent$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:16
S51	0	S50 and lack$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 20:16
S50	1	"7792947".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 18:27
S49	87	S48 not S45	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33

S48	99	S47 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S47	1898	S46 and (packag$4 near3 (template media))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S46	132920	tcp$4 and network$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S45	12	S44 and (packag$4 near3 (template media))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S44	1229	S43 and network$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S43	1446	S42 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S42	10427	S41 and ((template frame) with (color size position))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S41	152320	tcp$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/16 15:33
S40	87	S39 not S36	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 21:15
S39	99	S38 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 21:15
S38	1898	S37 and (packag$4 near3 (template media))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 21:15
S37	132920	tcp$4 and network$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 21:15
S36	12	S35 and (packag$4 near3 (template media))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 20:54

S35	1229	S34 and network$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 20:53
S34	1446	S33 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 20:53
S33	10427	S32 and ((template frame) with (color size position))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 20:53
S32	152320	tcp$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2011/02/15 20:52

EAST Search History (Interference)

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Attorney Docket: 043311-0381669

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE PATENT APPLICATION OF	:	John Albert KEMBEL *et al.*
SERIAL NO.	:	11/932,585
FILING DATE	:	October 31, 2007
ART UNIT	:	2176
EXAMINER	:	C.T. NGUYEN
FOR	:	SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

RESPONSE

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action mailed **September 13, 2010** ("the Office Action"), please consider the following amendments and remarks in the above-identified application:

Amendments to the Claims are reflected in the listing of claims beginning on page **2** of this paper.

Remarks/Arguments begin on page **9** of this paper.

It is believed that no extensions of time or fees for net addition of claims are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned for under 37 C.F.R. § 1.136(a), and any fees required therefore (including fees for net addition of claims) are hereby authorized to be charged to our Deposit Account No. 033975 (Ref. No. 043311-0381669).

CLAIM AMENDMENTS

This **listing of claims** will replace all prior versions, and listings, of claims in the application:

1. **(Currently Amended)** A client device, the client device comprising ~~network addressable application development server having stored thereon~~:

electronic storage having stored thereon a plurality of networked information monitor ~~application media package~~ templates defining a plurality of networked information monitors, the plurality of networked information monitor templates comprising a first networked information monitor template defining a first networked information monitor, wherein the first networked information monitor template comprises ~~used for the creation of application media package definitions, each application media package template comprising at least one element selected from the group consisting of~~:

(1) a content reference that comprises a network location at which content for the first networked information monitor is accessible via the TCP/IP protocol;

(2) a definition of a graphical user interface of the first networked information monitor that lacks controls for manually navigating a network, and that includes a frame within which content received from the network location can be displayed; and

(3) instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the TCP/IP protocol, and (ii) to cause the first networked information monitor to generate the ~~resulting in the formation of a definition of a~~ graphical user interface of the first networked information monitor with the content received from the network location via the TCP/IP protocol within the frame ~~in a web browser readable language such that said graphical user interface may be rendered outside of a window of, and without utilization of, a web browser application, said definition including an element for causing content in a web browser readable language to be presented within said graphical user interface~~;

an electronic display; and

one or more processors configured to access the first networked information monitor template, and to execute the first networked information monitor template such that the graphical user interface of the first networked information monitor is presented to a user on the electronic display having content received from the content reference therein

~~instructions resulting in the formation of a control for controlling an aspect of said graphical user interface; and~~

~~instructions resulting in the formation of a network reference to said content;~~

~~each said selected element being modifiable such that it may be repurposed for the development of an application media package definition~~.

2. **(Currently Amended)** The client device ~~network addressable application development server~~ of claim 1, wherein the first networked information monitor template further comprises frame characteristics defining one or more a color, a size, or a position on the electronic display of the frame ~~further including access control such that unauthorized access to said server is prohibited~~.

3. **(Currently Amended)** The client device ~~network addressable application development server~~ of claim 1, wherein the first networked information monitor template further comprises control characteristics that define one or more controls that are usable by the user to interact with or control the first networked information monitor ~~further comprising a development and test resource permitting verification, authentication, and acceptance of Application Media Package definitions developed using application media package templates~~.

4. **(New)** The client device of claim 3, wherein the control characteristics define

visual representations of the controls that are included in the graphical user interface of the first networked information monitor.

5. **(New)** The client device of claim 1, wherein the plurality of networked information monitor templates further comprises a second networked information monitor template defining a second networked information monitor, wherein the second networked information monitor template comprises:

(1) a second content reference that comprises a second network location, which is different from the network location in the content reference of the first networked information monitor template, at which content for the second networked information monitor is accessible via the TCP/IP protocol; and

(2) a definition of a graphical user interface of the second networked information monitor that lacks controls for manually navigating a network, and that includes a second frame within which content received from the second network location can be displayed; and

(3) instructions configured (i) to cause the second networked information monitor to request content from the second network location in the second content reference via the TCP/IP protocol, and (ii) to cause the second networked information monitor to generate the graphical user interface of the second networked information monitor with the content received from the second network location via the TCP/IP protocol within the frame.

6. **(New)** The client device of claim 5, wherein the one or more processors are further configured to execute the second networked information monitor template such that the graphical user interface of the second networked information monitor is presented to the user on the electronic display separately and discretely from the user interface of the first networked information monitor, and having content therein received from the second content reference.

7. **(New)** The client device of claim 1, wherein the one or more processors are further configured to transmit a request to a server for a further networked information monitor template responsive to reception of a user request for a further networked information monitor defined by the further networked information monitor template.

8. **(New)** The client device of claim 7, wherein the electronic storage is configured to electronically store the received further networked information monitor template, responsive to reception of the further networked information monitor template from the server.

9. **(New)** The client device of claim 8, wherein the one or more processors are further configured to execute the further networked information monitor template.

10. **(New)** A computer-implemented method of presenting Internet content to a user, the method being implemented in a client device comprising a electronic storage, an electronic display, and one or more processors, the method comprising:

storing to the electronic storage a plurality of networked information monitor templates defining a plurality of networked information monitors, the plurality of networked information monitor templates comprising a first networked information monitor template defining a first networked information monitor, wherein the first networked information monitor template comprises:

(1) a content reference that comprises a network location at which content for the first networked information monitor is accessible via the TCP/IP protocol; and

(2) a definition of a graphical user interface of the first networked information monitor that lacks controls for manually navigating a network, and that includes a frame within which content received from the network location can be displayed; and

(3) instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the TCP/IP protocol, and (ii) to cause the first networked information monitor to generate the graphical user interface of the first networked information monitor with the content received from the network location via the TCP/IP protocol within the frame;

accessing the first networked information monitor template in the electronic storage; and

executing the first networked information monitor template on the one or more processors such that the graphical user interface of the first networked information monitor is presented to the user on the electronic display having therein content received from the content reference.

11. **(New)** The method of claim 10, wherein the first networked information monitor template further comprises frame characteristics defining one or more a color, a size, or a position on the electronic display of the frame.

12. **(New)** The method of claim 10, wherein the first networked information monitor template further comprises control characteristics that define one or more controls that are usable by the user to interact with or control the first networked information monitor.

13. **(New)** The method of claim 12, wherein the control characteristics define visual representations of the controls that are included in the graphical user interface of the first networked information monitor.

14. **(New)** The method of claim 10, wherein the plurality of networked information monitor templates further comprises a second networked information monitor template defining a second networked information monitor, wherein the second

networked information monitor template comprises:

(1) a second content reference that comprises a second network location, which is different from the network location in the content reference of the first networked information monitor template, at which content for the second networked information monitor is accessible via the TCP/IP protocol; and

(2) a definition of a graphical user interface of the second networked information monitor that lacks controls for manually navigating a network, and that includes a second frame within which content received from the second network location can be displayed; and

(3) instructions configured (i) to cause the second networked information monitor to request content from the second network location in the second content reference via the TCP/IP protocol, and (ii) to cause the second networked information monitor to generate the graphical user interface of the second networked information monitor with the content received from the second network location via the TCP/IP protocol within the frame.

15. **(New)** The method of claim 14, further comprising executing the second networked information monitor template on the one or more processors such that the graphical user interface of the second networked information monitor is presented to the user on the electronic display separately and discretely from the user interface of the first networked information monitor, and having content therein received from the second content reference.

16. **(New)** The method of claim 10, further comprising transmitting a request to a server for a further networked information monitor template responsive to reception of a user request for a further networked information monitor defined by the further networked information monitor template.

17. **(New)** The method of claim 16, further comprising, responsive to reception of the further networked information monitor template from the server, storing the received further networked information monitor template to the electronic storage.

18. **(New)** The method of claim 17, further comprising executing the further networked information monitor template on the one or more processors.

REMARKS

By this paper, claims 1-3 are amended, claims 4-18 are added, and no claims are cancelled. Accordingly, claims 1-18 are all of the pending claims. Support for the amendments presented above is provided throughout the specification and claims as originally filed. Applicants expressly reserve the right to prosecute the subject matter of the unamended and/or cancelled claims, or any other subject matter supported by the Specification, in one or more continuation applications. In view of the foregoing amendments and the following remarks, reconsideration and allowance of all the pending claims is anticipated.

Claim Rejections – 35 USC § 101

Claims 1-3 currently stand rejected under 35 U.S.C. § 101 as allegedly not being drawn to patentable subject matter. Without acknowledging the propriety of this rejection, claims 1-3 have been amended to further clarify the patentable subject matter recited therein. As such, this rejection is believed to be moot and should be removed.

Claim Rejections – 35 USC § 112

Claims 1 and 2 currently stand rejected under 35 U.S.C. § 112, second paragraph, for allegedly being indefinite. Without acknowledging the propriety of this rejection, Applicants have amended claim 1 to remove the language objected to in the Office Action. As such, this rejection is believed to be moot and should be removed.

Claim Rejections – 35 USC § 102

Claims 1-3 currently stand rejected under 35 U.S.C. § 102(e) as allegedly being anticipated by U.S. Patent No. 6,369,840 to Barnett *et al.* ("Barnett"). Applicants traverse this rejection at least on the grounds that Barnett does not disclose all of the features of the claimed invention. Nevertheless, solely in an effort to expedite

prosecution, the claims have been amended to further clarify various aspects of the claimed invention.

For example, as amended claim 1 recites *inter alia* the following features, which are not disclosed by the cited sections of Barnett:

> ...electronic storage having stored thereon a... first networked information monitor template defining a first networked information monitor, wherein the first networked information monitor template comprises:
>
> ...a definition of a graphical user interface of the first networked information monitor that lacks controls for manually navigating a network, and that includes a frame within which content received from the network location can be displayed; and
>
> [] instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the TCP/IP protocol, and (ii) to cause the first networked information monitor to generate the graphical user interface of the first networked information monitor with the content received from the network location via the TCP/IP protocol within the frame....

Generally, Barnett describes a set of webpages that are accessed by users via a conventional web browser running on a client device [*see*, *e.g.*, c. 6, l. 56-c. 7, l. 4]. Conventional web browsers that are stored on client devices lack various features recited of the networked information monitor template recited in claim 1. For example, a conventional web browser at the time the invention was made would have included a graphical user interface having controls for manually navigating a network (*e.g.*, a forward browsing button, a backward browsing button, a URL entry field, and/or other manual navigation controls). The Office Action alleges that Barnett discloses the functionality of Barnett can be attained without the use of a browser application [*see*, *e.g.*, the Office Action, p. 4 (*citing* Barnett at c. 7, ll. 25-30, and c. 8, l. 60-c. 9, l. 27)]. However, the cited sections of Barnett do not explicitly disclose the features of claim 1 that were not anticipated by conventional web browsers at the time the invention was made, only that alternatives to web browsers may exist. Therefore, the cited sections of Barnett do not disclose the features of claim 1 reproduced above. For at least this

reason the rejection of claim 1 under § 102 should be withdrawn.

Claims 2 and 3 depend from claim 1. As such, the rejection of claims 2 and 3 under § 102 should be withdrawn due to the dependency of these claims, as well as for the features that they recite individually.

Newly Added Claims

Claims 4-18 are added by this paper.

Claims 4-9 depend from claim 1. As such, claims 4-8 are believed to be allowable over the cited references by virtue of their dependency, as well as for the features they recite individually.

Independent claim 10 recites *inter alia* the following features, which are not present in the cited references:

> ...storing to the electronic storage... a first networked information monitor, wherein the first networked information monitor template comprises:
>
> ...a definition of a graphical user interface of the first networked information monitor that lacks controls for manually navigating a network, and that includes a frame within which content received from the network location can be displayed; and
>
> [] instructions configured (i) to cause the first networked information monitor to request content from the network location in the content reference via the TCP/IP protocol, and (ii) to cause the first networked information monitor to generate the graphical user interface of the first networked information monitor with the content received from the network location via the TCP/IP protocol within the frame....

As was set forth above with respect to claim 1, the cited references do not disclose these features. For at least this reason newly added claim 10 is believed to be allowable over the cited references.

Claims 11-18 depend from claim 10. As such, claims 11-18 are believed to be allowable over the cited references by virtue of their dependency, as well as for the

features they recite individually.

CONCLUSION

Having addressed each of the foregoing objections and rejections, it is respectfully submitted that a full and complete response has been made to the outstanding Office Action and, as such, the application is in condition for allowance. Notice to that effect is anticipated.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Date: December 13, 2010

Respectfully submitted,

By: _____

D. Benjamin Esplin
Reg. No. 58,297

Customer No. 00909

PILLSBURY WINTHROP SHAW PITTMAN LLP
1650 Tysons Boulevard
McLean, Virginia 22102
619-234-5000

Electronic Acknowledgement Receipt

EFS ID:	9024837
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	00909
Filer:	D. Benjamin Esplin/Robin Eschenbruecher
Filer Authorized By:	D. Benjamin Esplin
Attorney Docket Number:	043311-0381669
Receipt Date:	13-DEC-2010
Filing Date:	31-OCT-2007
Time Stamp:	18:34:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Response.pdf	404484 a3da35b8416426b50c6a85dab4c41bea464f428b	yes	12

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	8
	Applicant Arguments/Remarks Made in an Amendment	9	12
Warnings:			
Information:			
	Total Files Size (in bytes):	404484	

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.
11/932,585	10/31/2007	John Albert Kembel	043311-0381669	2646

909 7590 09/13/2010

PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

EXAMINER	
NGUYEN, CHAU T	
ART UNIT	**PAPER NUMBER**
2176	

MAIL DATE	DELIVERY MODE
09/13/2010	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.

Office Action Summary	Application No.	Applicant(s)	
	11/932,585	KEMBEL ET AL.	
	Examiner	Art Unit	
	CHAU NGUYEN	2176	

-- 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 *31 October 2007*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ 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

4)☒ Claim(s) *1-3* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-3* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *31 October 2007* 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *02/25/08; 02/26/08; 04/27/09*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-3 are pending.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

3. Claims 1-3 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 1:

In summary, Claim 1 recites a “network addressable application development server" having stored thereon instructions to perform various functions. The invention recited in Claim 1 is nonstatutory because the “network addressable application development server” is software per se. Thus, the recited “network addressable application development server" of Claim 1 is not a “process,” a “machine,” a “manufacture” or a “composition of matter,” as defined in 35 U.S.C. 101.

Claims 2-3 further describe that the “network addressable application development server" include ”access control such that unauthorized access”, and “a development and test resource permitting verification, authentication", respectively, and these are software per se. Thus, the recited “network addressable application development server" of Claims 2-3 is not a “process,” a “machine,” a “manufacture” or a “composition of matter,” as defined in 35 U.S.C. 101.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. Claim 1 recites the limitation "the formation" in line 5. There is insufficient antecedent basis for this limitation in the claim.

7. Claim 2 recites the limitation "said server" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

9. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Barnett et al. (Barnett), US Patent No. 6,369,840

10. As to independent claim 1, Barnett discloses a network addressable application development server having stored thereon:

a plurality of application media package templates used for the creation of application media package definitions (Figures 18-20 and col. 17, line 22 - col. 20, line 11: templates source file, template map object instance and template data object instance are used to create HTML file (application media package definitions)), each application media package template comprising at least one element selected from the group consisting of:

instructions resulting in the formation of a definition of a graphical user interface in a web browser readable language such that said graphical user interface may be rendered outside of a window of, and without utilization of, a web browser application, said definition including an element for causing content in a web browser readable language to be presented within said graphical user interface (col. 7, lines 25-30 and col. 8, line 60 – col. 9, 27: the HTML page that may be displayed to the user on a conventional browser screen though other embodiments may use different techniques for presenting user interface elements to the user such as without use of a browser, login name and password fields are provided for the user to enter relevant information allowing the system to identify him or her, and in response to the user entering the information, the system retrieves stored user-specific information including user preferences and personalized calendar information);

instructions resulting in the formation of a control for controlling an aspect of said graphical user interface (col. 9, lines 38-47: user can select what kind of information is displayed there); and

instructions resulting in the formation of a network reference to said content (col. 9, line 48 – col. 10, line 10);

each said selected element being modifiable such that it may be repurposed for the development of an application media package definition (col. 13, line 22 - col. 14, line 54: the user can change information in the calendar).

11. As to dependent claim 2, Barnett discloses access control such that unauthorized access to said server is prohibited (col. 7, lines 51-56).

12. As to dependent claim 3, Barnett discloses a development and test resource permitting verification, authentication, and acceptance of Application Media Package definitions developed using application media package templates (col. 7, lines 51-56 and col. 15, line 46 – col. 16, line 41).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (571) 272-4092. The Examiner can normally be reached on Monday-Friday from 8:30 am to 5:30 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Doug Hutton, can be reached at (571) 272-4137.

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 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).

/Chau Nguyen/
Patent Examiner
Art Unit 2176

Notice of References Cited	Application/Control No. 11/932,585	Applicant(s)/Patent Under Reexamination KEMBEL ET AL.	
	Examiner CHAU NGUYEN	Art Unit 2176	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,369,840	04-2002	Barnett et al.	715/853
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11932585	KEMBEL ET AL.
	Examiner	Art Unit
	CHAU NGUYEN	2176

SEARCHED			
Class	Subclass	Date	Examiner
709	203	09/12/2010	cn
	223	09/12/2010	cn
	224	09/12/2010	cn

SEARCH NOTES		
Search Notes	Date	Examiner
Search on East Reports	09/12/2010	cn
Inventor Search for Double Patenting	09/12/2010	cn

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

PTO/SB/08a (03-09)
Approved for use through 04/30/2009. 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	11932585
Filing Date	2007-10-31
First Named Inventor	John Albert Kembel
Art Unit	2176
Examiner Name	Heather Herndon
Attorney Docket Number	IMS-07-05-07

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
/CN/	1	5838906		1998-11-17	Doyle, et al.	
/CN/	2	6006252		1999-12-21	Wolfe	
/CN/	3	6101510		2000-08-08	Stone, et al.	
/CN/	4	6292185		2001-09-18	Ko, et al.	
/CN/	5	7356569		2008-04-08	Kembel, 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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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	2176
	Examiner Name	Heather Herndon
	Attorney Docket Number	IMS-07-05-07

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		☐

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EXAMINER SIGNATURE

Examiner Signature	/Chau Nguyen/	Date Considered	09/12/2010

*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.

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31644	709/203,223,224.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 22:32
S1	1276	application with media with package	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 16:06
S2	48	application with media with package with definition	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 16:06
S3	0	S2 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 16:16
S4	235	application with package with template	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 16:26
S5	107	S4 and (control$5 with (gui interface))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 16:26
S6	24	S5 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 16:26
S7	1	"6369840".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 16:41
S8	1	S7 and template	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:19
S9	0	S7 and test$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:25
S10	0	S7 and verifica$5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:25

S11	1	S7 and modif$7	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:26
S12	1	S7 and develop$5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:27
S13	2	("6006252" "6268856").pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:31
S14	1	("6496203").pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:33
S15	0	S14 and template	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:35
S16	2	("6101510" "6834302").pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:40
S17	0	S16 and template	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:43
S18	2	S16 and form	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:43
S19	1	S18 and frame	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:45
S20	1	S16 and window	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:51
S21	1360	(generat$4 creat$4) with (definition gui interface window frame) with (bas$4 accord$4) with template	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:57
S22	943	S21 and develop$5	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:57

S23	180	S22 and authenticat$4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:57
S24	23	S23 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 17:58
S25	808	(generat$4 creat$4) with (definition gui interface window frame) with (bas$4 accord$4) with layout	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 20:11
S26	125	S25 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 20:12
S27	67	S26 and (develop$5)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 20:12
S28	552	package near2 template	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 20:38
S29	95	package with template with definition	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 20:38
S30	19	S29 and @ad<="20000426"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2010/09/12 20:38

EAST Search History (Interference)

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9/12/10 10:33:05 PM
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BIB DATA SHEET

CONFIRMATION NO. 2646

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/932,585	10/31/2007 RULE	726	2176	043311-0381669

APPLICANTS

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Sridhar T. Devulkar, San Jose, CA;
Mark Wallin, Mountain View, CA;

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

This application is a CON of 09/558,922 04/26/2000 PAT 7,756,967
which claims benefit of 60/131,083 04/26/1999
and claims benefit of 60/131,114 04/26/1999
and claims benefit of 60/131,115 04/26/1999
and claims benefit of 60/176,687 01/18/2000
and claims benefit of 60/176,699 01/18/2000

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Foreign Priority claimed ☐ Yes ☑ No 35 USC 119(a-d) conditions met ☐ Yes ☑ No Verified and Acknowledged /CHAU T NGUYEN/ Examiner's Signature	☐ Met after Allowance cn Initials	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
		CA	14	3	1

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PILLSBURY WINTHROP SHAW PITTMAN, LLP
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UNITED STATES

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

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/CN/	1	6571245		2003-05-27	Huang et al	
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/CN/	1	WO0180086	WO	A2	2001-10-25	Neoplanet, Inc.		☐

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/CN/	1	5625781		1997-04-29	Cline et al	
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Signature	/Jonathan A. Small/	Date (YYYY-MM-DD)	2008-02-25
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11932585	KEMBEL ET AL.
	Examiner	**Art Unit**
	CHAU NGUYEN	2176

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/932,585	10/31/2007	John Albert Kembel	IMS 07-05-07

CONFIRMATION NO. 2646

909
PILLSBURY WINTHROP SHAW PITTMAN, LLP
P.O. BOX 10500
MCLEAN, VA 22102

POA ACCEPTANCE LETTER

OC000000038248853

Date Mailed: 10/19/2009

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/02/2009.

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.

/vvan/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

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
11/932,585	10/31/2007	John Albert Kembel	IMS 07-05-07

CONFIRMATION NO. 2646

43785
JAS IP CONSULTING
309 2nd STREET
SUITE 8
LOS ALTOS, CA 94022

POWER OF ATTORNEY NOTICE

OC000000038248819

Date Mailed: 10/19/2009

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/02/2009.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

/vvan/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

OCT 0 2 2009

PTO/SB/81 (01-09)
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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	11/932,585
Filing Date	10/31/2007
First Named Inventor	John Albert Kembel
Title	System and methods for creating and...
Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	IMS 07-05-07

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: 00909

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☐ The address associated with the above-mentioned Customer Number.

OR

☒ The address associated with Customer Number: 00909

OR

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

I am the:

☐ Applicant/Inventor.

OR

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Applicant or Assignee of Record

Signature	Rakesh Ramde	Date	Oct. 2, 2009
Name	Rakesh Ramde	Telephone	650-969-8300
Title and Company	Mainstream Scientific, LLC		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. 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 1.31, 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.**

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

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PTO/SB/96 (07-09)
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Mainstream Scientific, LLC

Application No./[redacted]: 11/932,585 Filed/[redacted] Date: 10/31/2007

Titled: Systems and methods for creating and authoring internet content using application media packages

Mainstream Scientific, LLC (Name of Assignee), a limited liability company (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. [X] the assignee of the entire right, title, and interest in;

2. [ ] an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. [ ] the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

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 _____, Frame _____, or for which a copy therefore is attached.

OR

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

1. From: Kembel, et al. To: DoDots, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 011206, Frame 0173, or for which a copy thereof is attached.

2. From: DoDots, Inc. To: Sherwood Partners, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 016020, Frame 0684, or for which a copy thereof is attached.

3. From: Sherwood Partners, Inc. To: Innovation Management Sciences

The document was recorded in the United States Patent and Trademark Office at
Reel 016024, Frame 0221, or for which a copy thereof is attached.

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

[ ] As required by 37 CFR 3.73(b)(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.

Rakesh Ramde — Signature

Oct. 2, 2009 — Date

Rakesh Ramde — Printed or Typed Name

Member — Title

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.**

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Mainstream Scientific, LLC

Application No./[redacted]: 11/932,585 Filed/[redacted] Date: 10/31/2007

Titled:
Systems and methods for creating and authoring internet content using application media packages

Mainstream Scientific, LLC , a limited liability company
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. [X] the assignee of the entire right, title, and interest in;

2. [ ] an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or

3. [ ] the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

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 _____, Frame _____, or for which a copy therefore is attached.

OR

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

1. From: Innovation Management Sciences To: Mainstream Scientific, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 022846, Frame 0153, 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.

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.

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

[ ] As required by 37 CFR 3.73(b)(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.

Rakesh Ramde — Signature
Oct. 2, 2009 — Date
Rakesh Ramde — Printed or Typed Name
Member — Title

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.**

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Doc Code: TRAN.LET
Document Description: Transmittal Letter

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission: 4

Application Number	11/932,585
Filing Date	10/31/2007
First Named Inventor	John Albert Kembel
Art Unit	TBD
Examiner Name	TBD
Attorney Docket Number	IMS 07-05-07

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☐ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☑ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☑ Other Enclosure(s) (please identify below):
  PTO/SB/96

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Mainstream Scientific, LLC		
Signature	Rakesh Ramde		
Printed name	Rakesh Ramde		
Date	Oct. 2, 2009	Reg. No.	

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	HTran		
Typed or printed name	Hannah Tran	Date	10/2/09

This collection of information is required by 37 CFR 1.5. 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 and1.14. This collection is estimated to 2 hours 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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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-09)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	2176
	Examiner Name	Heather Herndon
	Attorney Docket Number	IMS-07-05-07

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	5838906		1998-11-17	Doyle, et al.	
	2	6006252		1999-12-21	Wolfe	
	3	6101510		2000-08-08	Stone, et al.	
	4	6292185		2001-09-18	Ko, et al.	
	5	7356569		2008-04-08	Kembel, 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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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	2176
	Examiner Name	Heather Herndon
	Attorney Docket Number	IMS-07-05-07

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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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	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	2176
	Examiner Name	Heather Herndon
	Attorney Docket Number	IMS-07-05-07

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.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

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	/Jonathan A. Small/	Date (YYYY-MM-DD)	2009-04-27
Name/Print	Jonathan A. Small	Registration Number	32631

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:	5229564
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	27-APR-2009
Filing Date:	31-OCT-2007
Time Stamp:	21:06:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	IMS-07-05-07-IDS2.pdf	607946 3c775cff5f86ba89683884eea10bc2689ce5e11d	no	4

Warnings:	
Information:	

Total Files Size (in bytes):	607946

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.

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
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/932,585	10/31/2007		630	IMS 07-05-07	3	1

CONFIRMATION NO. 2646

UPDATED FILING RECEIPT

43785
JAS IP CONSULTING
309 2nd STREET
SUITE 8
LOS ALTOS, CA 94022

OC00000028587262

Date Mailed: 03/04/2008

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Applicant(s)

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Assignment For Published Patent Application

Mainstream Scientific , LLC, Mountain View, CA

Power of Attorney: The patent practitioners associated with Customer Number 43785

Domestic Priority data as claimed by applicant

This application is a CON of 09/558,922 04/26/2000
which claims benefit of 60/131,083 04/26/1999
and claims benefit of 60/131,114 04/26/1999
and claims benefit of 60/131,115 04/26/1999
and claims benefit of 60/176,687 01/18/2000
and claims benefit of 60/176,699 01/18/2000

Foreign Applications

If Required, Foreign Filing License Granted: 11/21/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/932,585**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No
**** SMALL ENTITY ****
Title

System and Methods for Creating and Authoring Internet Content Using Application Media Packages

Preliminary Class

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PTO/SB/08a (05-07)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

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	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

	22	"It's X-treme!," Alexa, PC Magazine: The Best of 1998, 1 page, www.zdnet.com/pcmag/special/bestof98/internet5.html, 1/99	☐
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	24	MindSpring, MyYahoo, pages 1-16, www.mindspring.com/myyahoo/contents.htm, 12/1997	☐
	25	Morrison, XML Unleashed, Sams Publishing, December 21, 1999	☐
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	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
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☐ Fee set forth in 37 CFR 1.17 (p) has been 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	/Jonathan A. Small/	Date (YYYY-MM-DD)	2008-02-26
Name/Print	Jonathan A. Small	Registration Number	32,631

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EFS ID:	2911988
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	26-FEB-2008
Filing Date:	31-OCT-2007
Time Stamp:	15:58:05
Application Type:	Utility under 35 USC 111(a)

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File Listing:

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1	Information Disclosure Statement (IDS) Filed	IMS-07-05-07-IDS-pt2.pdf	946027 40d02a771aa20f279612b3af6f36a4d8e8474612	no	6
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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
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(43) International Publication Date
25 October 2001 (25.10.2001)

PCT

(10) International Publication Number
WO 01/80086 A2

(51) International Patent Classification[7]: G06F 17/30

(21) International Application Number: PCT/US01/12146

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(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/548,760 13 April 2000 (13.04.2000) US

(71) Applicant: **NEOPLANET, INC.** [US/US]; 1524 W. Street, Suite 102, Tempe, AZ 85281 (US).

(72) Inventors: **FRISKEL, James, P.**; 3221 S. Atlantic Avenue #704, Cocoa Beach, FL 32931 (US). **NOE, Michael, J.**; 9756 Turquiose Avenue, Scottsdale, AZ 85258 (US).

(74) Agent: **BOSWELL, Mary, Jane**; Morgan, Levis & Bookies LLP, 1800 M Street, N.W., Washington, DC 20036-5869 (US).

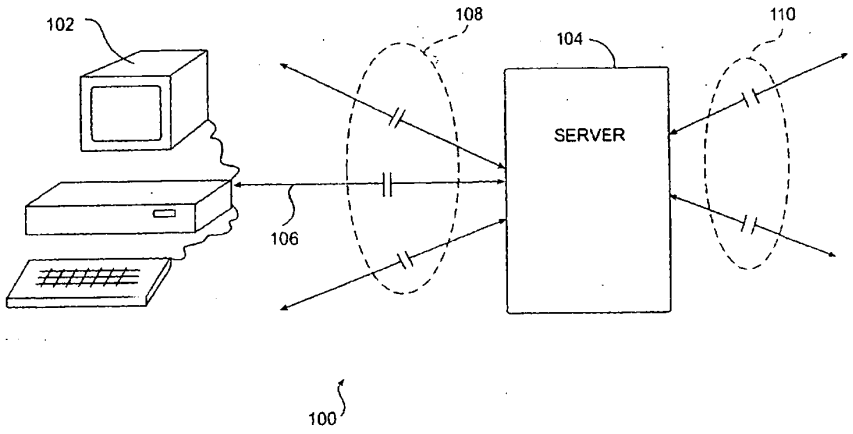
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(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

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(57) Abstract: An apparatus for processing HTML text is disclosed. The apparatus includes a computer having a processor and memory that is operable to run a parser program. The parser program includes two or more rendering engines. The parser program is operable to receive HTML formatted text, select a rendering engine; and process the HTML text.

WO 01/80086 A2

METHOD AND APPARATUS FOR A DUAL RENDERING ENGINE BROWSER

Inventors: James R. FRISKEL and Michael J. NOE

RELATED APPLICATIONS

This application is related to U.S. Utility Application Serial Number 09/548,760, filed April 13, 2000, which is herein incorporated by reference in its entirety.

TECHNICAL FIELD OF THE INVENTION

This invention relates to the field of computer programs and more specifically to a method and apparatus for a dual rendering engine browser.

BACKGROUND

The usage of the INTERNET is increasing at a very large rate. Generally, a user accesses content on the Internet by executing a "web browser" or "parser" program locally at a client (such as a home computer) and interconnecting to a server of an Internet Service provider. The interconnection may use any of a variety of communication links such as a dial-up telephone communication link or a dedicated communication link, such as a cable modem. The web browser is a computer program that allows the client to exchange information with the remote server. Any of a variety of web browsers are available, such as NETSCAPE NAVIGATOR, MICROSOFT EXPLORER and others that allow users to conveniently access and navigate the Internet using a graphical user interface. Web browsers receive web pages in a format or language understandable by a web browser, such as Hypertext Markup Language ("HTML"). HTML is a common markup language that describes the structure and behavior of a document. Web browsers, through the use of a rendering engine, interpret the web pages and generate a corresponding display of the web pages using a graphical user interface. One drawback of the present invention is that different rendering engines interpret HTML differently. Therefore, the output of various web browsers may differ. Currently, to view different outputs, one must use different web browsers at separate

times. This is cumbersome to both users of web browsers and developers of web content who need to know what their work will look like using different browsers.

SUMMARY OF THE INVENTION

From the foregoing it may be appreciated that a need has arisen for a method and apparatus for a dual rendering engine browser. In accordance with the present invention, a method and apparatus for a dual rendering engine browser is provided that allows a user to view a document formatted in a markup language with a rendering engine of the user's choice or using more than one rendering engine.

According to an embodiment of the present invention, there is provided an apparatus for processing HTML text. The apparatus includes a computer having a processor and memory that is operable to run a parser program. The parser program includes two or more rendering engines. The parser program is operable to receive HTML formatted text, select a rendering engine; and process the HTML text.

A technical advantage of the present invention includes the ability of a user to choose what rendering engine best fits the particular document to be viewed. Another technical advantage of the present invention includes the ability to use multiple rendering engines simultaneously. Other technical advantages are readily apparent to one skilled in the art from the following figures, description, and claims.

BRIEF DESCRIPTION OF THE DRAWINGS

For a more complete understanding of the present invention and the advantages thereof, reference is now made to the following brief description, taken in connection with the accompanying drawings and detailed description, wherein like reference numerals represent like parts, in which:

FIG. 1 is a diagram illustrating a network interconnection including a client and an Internet server;

FIG. 2 is a block diagram illustrating the client and a remote Internet server;

FIG. 3 is a block diagram showing the functional parts of the program of the present invention;

FIG. 4a and FIG. 4b illustrate web browser display in accordance with the teachings of the present invention; and

FIG 5 is a flowchart illustrating the operation of an embodiment of the present invention.

DETAILED DESCRIPTION OF THE INVENTION

Turning first to the nomenclature of the specification, the detailed description which follows is represented largely in terms of processes and symbolic representations of operations by conventional computer components, including a central processing unit ("CPU") or processor associated with a general purpose computer system, memory storage devices for the CPU, and connected pixel-oriented display devices. These operations include the manipulation of data bits by the CPU and the maintenance of these bits within data structures resident in one or more of the memory storage devices. Such data structures impose a physical organization upon the collection of data bits stored within computer memory and represent specific electrical or magnetic elements. These symbolic representations are the means used by those skilled in the art of computer programming and computer construction to most effectively convey teachings and discoveries to others skilled in the art.

In addition, it should be understood that the programs, processes, methods, etc. described herein are but an example of one implementation of the present invention and are not related or limited to any particular computer, apparatus or computer language. Rather, various types of general purpose computing machines or devices may be used with programs constructed in accordance with the teachings described herein. Similarly, it may prove advantageous to construct a specialized apparatus to perform the method steps described herein by way of dedicated computer systems with hardwired logic or programs stored in non-volatile memory, such as read only memory.

Referring now in more detail to the drawings, FIG. 1 is a diagram illustrating a network interconnection 100 including a client 102 and an Internet server 104. Network

interconnection 100 includes the interface between Internet server 104 and a plurality of clients through a plurality of direct communication lines 108. For example, network interconnection 100 includes an interconnection between client 102 and Internet server 104 through a direct communication line 106. Network interconnection 100 also includes the interface between Internet server 104 and other Internet servers through a plurality of communication lines 110. In this manner, Internet server 104 allows the plurality of clients directly interconnected with server 104, such as client 102, to communicate with other Internet users by providing an interconnection to other Internet servers through communication lines 110. Other Internet users are also directly interconnected with a server such that a communication path may be established between one client and another client through the various serves of the Internet. Internet server 104 is a computer such as a personal computer, file server, workstation, minicomputer, mainframe, or any other computer capable of communicating and interconnecting with other computers. Internet server 104 will preferably include a processor, a printer, an input device such as a mouse and/or a keyboard, a monitor, a floppy disk drive, memory, a modem, and a mass storage device such as a hard disk drive. Communication lines 110 and direct communication lines 108 may be any type of communication link capable of supporting data transfer. For example, these communication lines may include any combination of an Integrated Services Digital Network ("ISDN") communication line, a hard wired line, or a telephone link.

Client 102 may be similar to Internet server 104 and may be implemented using virtually any type of computer. Client 12 will preferably be a personal computer having a processor, a printer, an input device such as a mouse and/or a keyboard, a monitor, a floppy disk drive, memory, a modem, and a mass storage device such as a hard disk drive. Client 102 and Internet server 104 will be operating under the control of an operating systems such as MS-DOS, Macintosh OS, WINDOWS NT, WINDOWS 95/98/2000, OS/2, UNIX, LINUX and the like. Client 102 and Internet server 104 may execute any number of available application programs such as a web browser.

In operation, the various clients of network interconnection 100, such as client 102, may communicate through server 104 with any other client connected to the Internet. For example, client 102, generally using a web browser application program,

may couple to Internet server 104 and provide the address of URL of an Internet web page. The Internet web page will generally be stored on another Internet server located remotely. Internet server 104, through the plurality of communication lines 110, communicates with other Internet servers. Eventually, the receiving Internet server is found and in response, transmits the HTML formatted Internet web page back to Internet server 104 for viewing by client 102 using a web browser.

Although network interconnection 100 has been illustrated and described in FIG. 1 as being a node or interconnection on the Internet, network interconnection 100 may be any interconnection found on any computer network such as a local area network ("LAN"), a wide area network ("WAN"), an intranet, such as a corporate intranet, or any other communications and data exchange system created by connecting two or more computers. The present invention will be illustrated and described with an implementation using the Internet, however, it should be understood that the present invention is not limited to only implementations using the Internet. It may, for example, be implemented on a single computer operating by itself.

FIG. 2 is a block diagram illustrating client 102 and a remote Internet sever 104. Client 102 includes a processor 208, input/output ("I/O") devices 210, and a client memory 202. Processor 208, under the control of an operating system 204, controls the operation of client 102 and is used to retrieve, process, store, and display data. Operating system 204 and a parser program 206 are stored in client memory 202. Client memory 202 may be a random access memory ("RAM"), Read-only memory ("ROM"), or other types of memory.

Processor 208 is typically implemented as a microprocessor, such as those manufactured by INTEL, MOTOROLA, or ADVANCED MICRO DEVICES. Processor 208 may include an arithmetic logic unit to assist in performing mathematical operations. Processor 208 communicates control, address, and data signals with operating system 204 and with the remaining components of client 102 through a system bus. Processor 208 interprets and executes instructions that have been fetched or retrieved from client memory 202 and may be implemented as a single integrated circuit or as a combination of integrated circuits.

I/O devices 212 may include any peripheral that allows data to be exchanged with client 102 and may include such devices as a keyboard, a monitor, a printer, a modem, a pointing device, such as a mouse, a floppy disk drive, a mass storage device, such as a hard disk drive, and the like. The mass storage device is used to store computer files including application programs and data files. For example, the mass storage device may be used to store parser program 206 and operating system 204.

Operating system 204 includes a set of computer programs that control the internal functions of client 102, thereby allowing client 102 to run application programs. Operating system 204 is typically stored in and provided from a mass storage device, such as a hard disk drive, a floppy disk drive, a CD ROM drive or a ROM chip. During start-up or initialization of client 102, operating system 204 is loaded into client memory 202. Application programs, such as parser program 206, may also be loaded into client memory 202 along with operating system 204.

Parser program 206, in one embodiment, is a graphical web browser that allows a user to view images, fonts, and document layouts provided in a web page by converting large units of data into smaller, more easily interpreted, units of data. Parser program 206 reads the tagged document of a web page or other markup language formatted document, such as those provided in Hypertext Markup Language (HTML) format. HTML uses tags to identify the parts of a web page, such as headings, bulleted lists, body text, on-screen forms, including fill-in text boxes, options buttons, radio buttons, and drop-down list boxes, images to be displayed, hypertext links, colors, font, and various other formatting tags. Parser program 206 formats the various parts of the document for on-screen display as directed by the HTML tags. It accomplishes this by using a rendering engine which interprets the HTML formatted document. In the present invention, a web browser includes multiple rendering engines. Rendering engines are discussed in greater detail in conjunction with FIGURES 3 through 5. While HTML is used as an example markup language, the present invention is not limited to HTML formatted documents but includes other markup languages as well, such as SGML and GML.

In the present invention, a user is able to choose a rendering engine to process the markup language formatted documents information from a selection of two or more

rendering engines such as the Internet Explorer rendering engine used in the Internet Explorer web browser or the MOZILLA rendering engine used in the Netscape browser as well as any other rendering engines. Typically, rendering engines for different web browsers can be called by third party software by specifying an application ID and an interface ID. The use of, and accessing of, rendering engines is known to those skilled in the art. Alternatively, a user can view a markup language formatted document processed by different rendering engines simultaneously in different windows of the display.

In another embodiment, parser program 206 can also be used as part of a program or series of programs used to develop markup language formatted documents such as web pages. By including the different rendering engines from different web browsers, a developer using the parser program 206 of the present invention will be able to ensure the markup language formatted document under development will work with different browsers. Further discussions of these embodiments are presented in the following descriptions.

Remote Internet server 104 includes a server memory 222, a processor 224, and a mass storage device 226. Remote Internet server 105 also preferably includes various I/O devices 228 such as those mentioned above in the description of I/O devices 212 of client 102.

Operating system 220 and a web server 222 are stored in mass storage device 226 and are shown loaded into server memory 223. Processor 224, in conjunction with operating system 220, controls the operation of remote Internet server 104. Processor 224 fetches and executes various instructions stored in server memory 223. Operating system 220 operates similarly to operating system 204 of client 102 and includes a set of computer programs that control the internal functions of remote Internet server 104. Operating system 220 controls the allocation and usage of hardware resources such as server memory 223, processor 224, mass storage device 226, and optional I/O devices 228. Operating system 220 may be any of a variety of available operating systems depending partially on the hardware of server 104. For example, operating system 220 may be implemented as MS-DOS, the Macintosh OS, OS/2, WINDOWS NT, WINDOWS NT/ WINDOWS 95/98/2000, UNIX, LINUX or any of a variety of other operating systems.

Web server program 220 is an application program shown loaded into server memory 223. Web server program 220 is stored in mass storage device 226 and is then loaded into server memory 223 when selected by a user or is initiated on the server side. In response to a client request, markup language formatted documents will be provided to parser program 206.

FIGURE 3 illustrates a block diagram showing the functional parts of the program of the present invention. Illustrated is a parser program 304 having a first rendering engine 306 and a second rendering engine 308 which is coupled to a display system 310. In operation, parser program 304 is operable to receive text files written in a markup language, such as HTML formatted documents. Depending on the uses of parser 304, HTML formatted documents 302 can be loaded via a request from parser 304 to send files from a remote server, or a parser 304 can retrieve HTML formatted documents 302 from a local storage device. After receiving HTML formatted documents 302, a choice is then made as to which rendering engine is to be used. This choice can be made by a user operating the program. For example, a user may choose that a first rendering engine 306 is to be used. In that case, the HTML document 302 received by parser 304 will be processed using first rendering engine 306. Then the rendered text can be displayed by display routine 310 on a monitor or other display device. On the other hand, if the second rendering engine 308 is to be used, then the HTML documents 302 is processed by second rendering engine 308 and then displayed by display routine 310. Of course, there are times when both rendering engines are to be used so as to view the web text side-by-side or rendered by two different rendering engines in order to determine any differences introduced by the different rendering engines.

In one embodiment, the rendering engines 306 and 308 can be the Internet Explorer rendering engine by Microsoft and/or the Mozilla rendering engine by Netscape. Rendering engines are operable to perform such tasks as format a document for display based on a markup language as well as manage user interactions and host associated elements such as ActiveX controls and JAVA applets. Parser program 304 can be any program operable to receive hypertext files and prepare them for sending on to a rendering engine. Display 310 is a program and/or hardware operable to display the formatted HTML files.

FIGURE 4a illustrates a sample display of a web browser implementing the present invention. Web browser 400 contains a multitude of windows including a navigational window 402, a channel window 404, an information window 406 and a main display window 408. In operation, navigation window 402 will contain information on navigating a web browser such as forward-backward buttons, search buttons, etc., as is commonly well-known in the art. Channel window 404 contains a list of sites of interest that are organized via topic. Information window 406 can be provided with live, real-time advertisements or banner advertising. Display window 408 is used to display the requested web page after processing by a web rendering engine. In this embodiment, a pull-down menu located on navigation window 402 or elsewhere could include a choice between rendering the HTML formatted hypertext page using a first rendering engine or a second rendering engine, or to use both.

FIGURE 4b illustrates a web browser in which web display window 408 has been divided into a first window for 408a and a second window for 408b. This embodiment is useful in cases where the choice is made to display one HTML formatted text, i.e., a web page, using both of the rendering engines simultaneously. In that case, the output from a first rendering engine would be displayed in a first window 408a and the output from a second rendering engine would be displayed in a first window 408a and the output from a second rendering engine would be displayed in a second window 408b. This same concept can be extended to cases where more than two rendering engines.

FIGURE 5 illustrates a method for displaying markup language formatted documents using one or more rendering engines. In step 502, a parser program is initiated. By parser program, this could be a web browser program operable to receive web pages written in HTML language from a remote computer via a connection such as a phone connection or a direct connection between the computers. The parser program can also be a program used to translate HTML documents located locally on a single computer. The parser program can also be a development tool used to develop HTML documents. Starting the parser program also initiates the transfer of HTML formatted documents to the parser program. Next, in step 504, an initial rendering engine is selected. This can be done automatically by the software which could have a default rendering engine or it could be done by a user who initially selects a default initial

rendering engine by setting a preference or in some similar fashion. Then, in step 506, a user can choose what rendering engine it wants to use. In step 506, a user can choose to either stay with the rendering engine currently being used, change rendering engines, or use multiple rendering engines. If a user chooses to use the same rendering engine, then, in step 508, the HTML document is displayed using that rendering engine. If the user decides to change rendering engines, then a new rendering engine id is sent by the parser program in step 510, initiating the use of the new rendering engine. Typically, each unique rendering engine will have a unique engine ID. Of course, in the present invention any means of accessing a rendering engine, either one publicly available or a proprietary engine, can be accomplished by the present invention. In step 512, the result is displayed. Finally, if a user chooses to use multiple rendering engines, then all rendering engines ids are sent to initiate the rendering engines in step 513. In step 514, the multiple rendering engine results are displayed. In this manner, comparisons can be made as to what rendering engine most efficiently renders the HTML document.

Thus, it is apparent that there has been provided, in accordance with the present invention, a method and apparatus for interpreting HTML formatted documents using multiple rendering engines that satisfies the advantages as set forth above. Although, the preferred embodiment has been described in detail, it should be understood that various changes, substitutions, and alterations can be made herein. For example, the present invention may be implemented on any computer, computer network, or interconnection of computers, as well as any standalone computer. Although the present invention has been described and shown as an element using the Internet, the scope of the present invention is not limited to the Internet. Other examples of changes, substitutions and alterations are readily assertable by one skilled in the art and could be made without departing from the scope and spirit of the present invention.

WHAT IS CLAIMED IS:

1. A method for processing markup language formatted documents comprising:

receiving the document;

providing two or more rendering engines;

selecting a rendering engine; and

processing document with the selected rendering engine.

2. The method of Claim 1, wherein the step of selecting further comprises:

selecting two or more rendering engines, and

processing the document with the rendering engines.

3. The method of Claim 1, further comprising the step of displaying the processed document.

4. The method of Claim 2, further comprising the step of displaying the processed document in multiple windows.

5. An apparatus for processing markup language formatted documents comprising:

a computer having a processor and memory, the computer operable to run a parser program, the parser program comprising two or more rendering engines, the parser program operable to:

receive documents;

select a rendering engine; and

process the documents.

6. The apparatus of Claim 5, wherein the parser program is operable to display the documents.

7. The apparatus of Claim 5, wherein the parser program is further operable to allow a user to select two or more rendering engines.

8. The apparatus of Claim 5, wherien the parser program is operable to display a first window containing a document processed by a first rendering engine and to display a second window containing a document rendered by a second rendering engine.

9. The apparatus of Claim 1, wherein the markup language formatted documents are received from a remote server.

10. The apparatus of Claim 5, wherein the parser program is a web browser.

11. The apparatus of Claim 5, wherein the parser program is a web page development program.

12. A computer-readable medium containing instructions for markup language formatted documents, by:

reading in the documents;

processing the documents by selecting one or more rendering engines from a plurality of rendering engines.

13. The medium of Claim 12, wherein the instructions further comprises allowing a user to select two or more rendering engines.

14. The medium of Claim 12, wherein he instructions further comprise displaying the documents.

15. The medium of Claim 13, wherein the instructions further comprise displaying a first window containing a document processed by a first rendering engine and displaying a second window containing a document rendered by a second rendering engine.

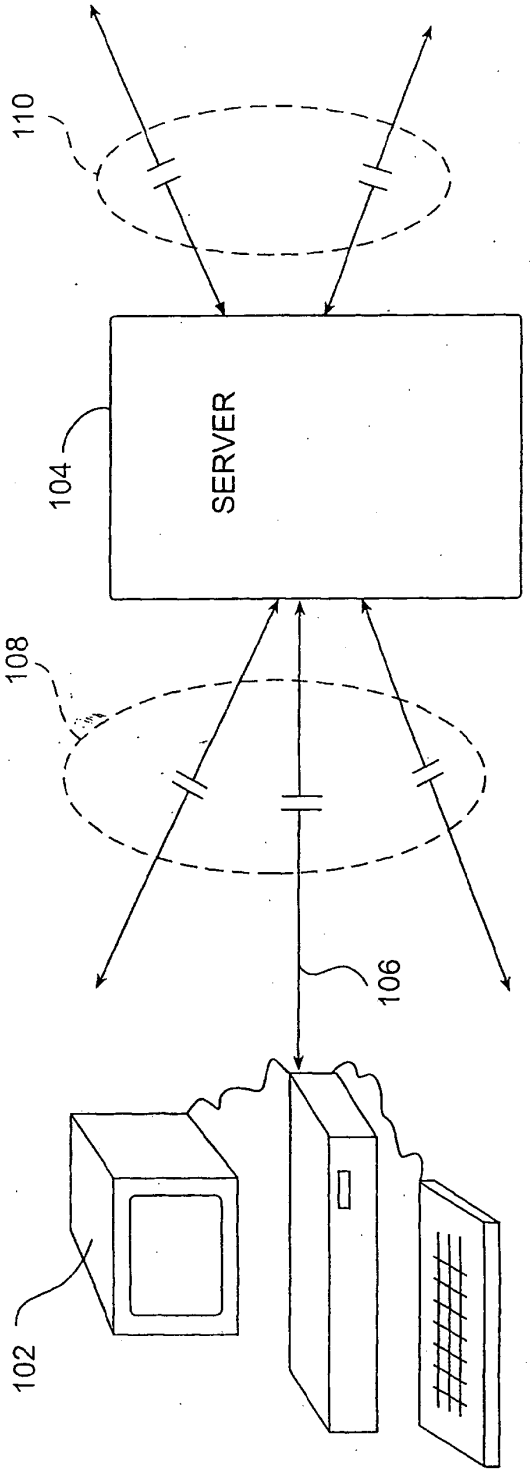


FIG. 1

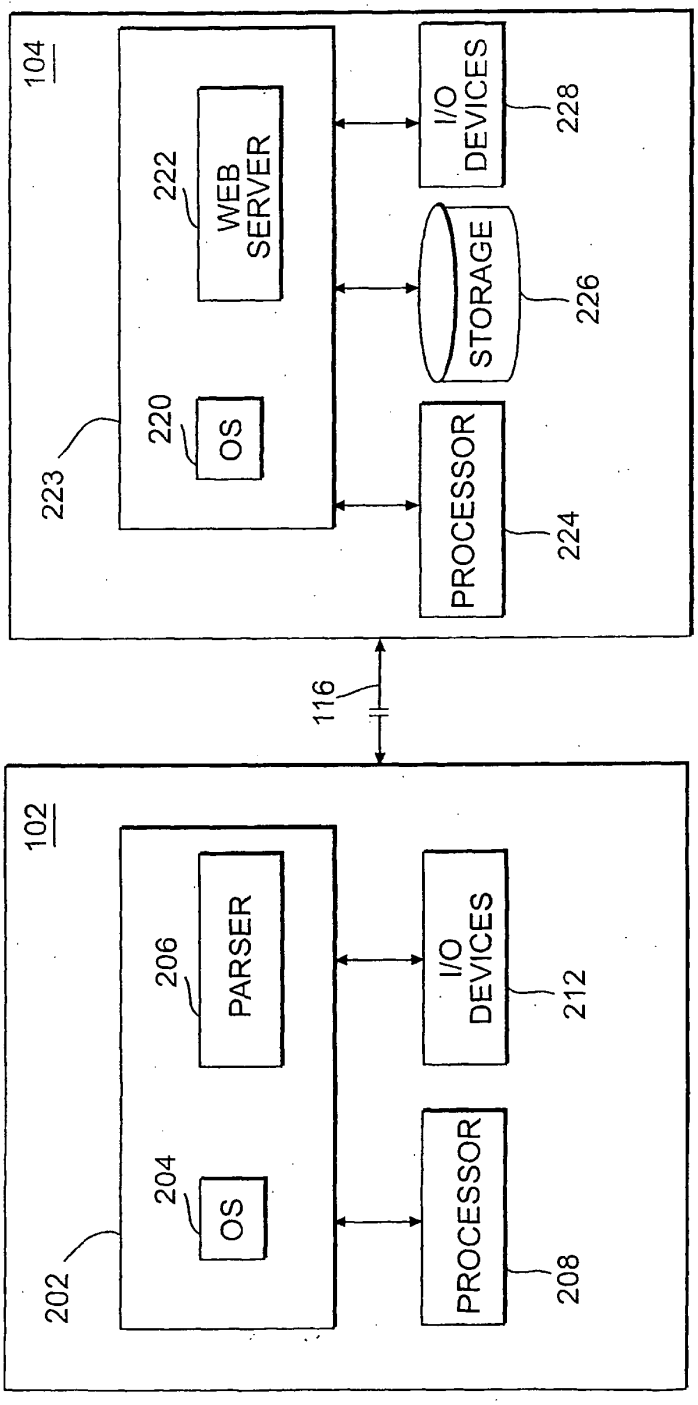

104
222
WEB SERVER
220
OS
223
I/O DEVICES
228
STORAGE
226
PROCESSOR
224
116
102
206
PARSER
204
OS
202
I/O DEVICES
212
PROCESSOR
208

FIG. 2

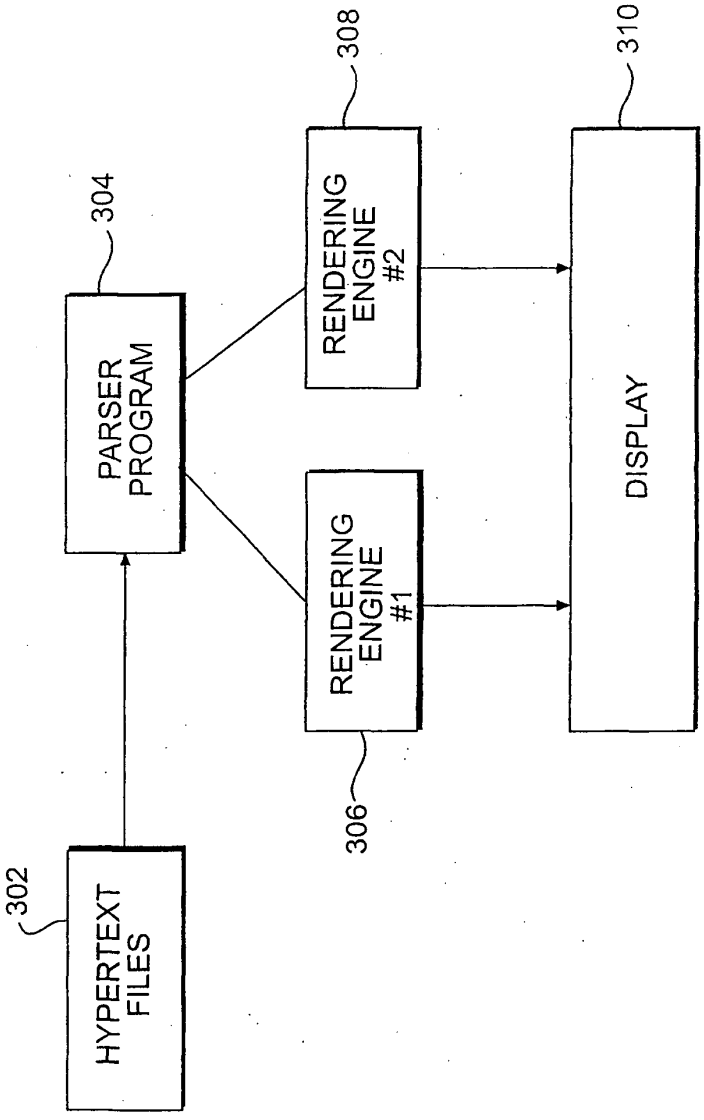

HYPERTEXT FILES
302
PARSER PROGRAM
304
RENDERING ENGINE #1
306
RENDERING ENGINE #2
308
DISPLAY
310

FIG. 3

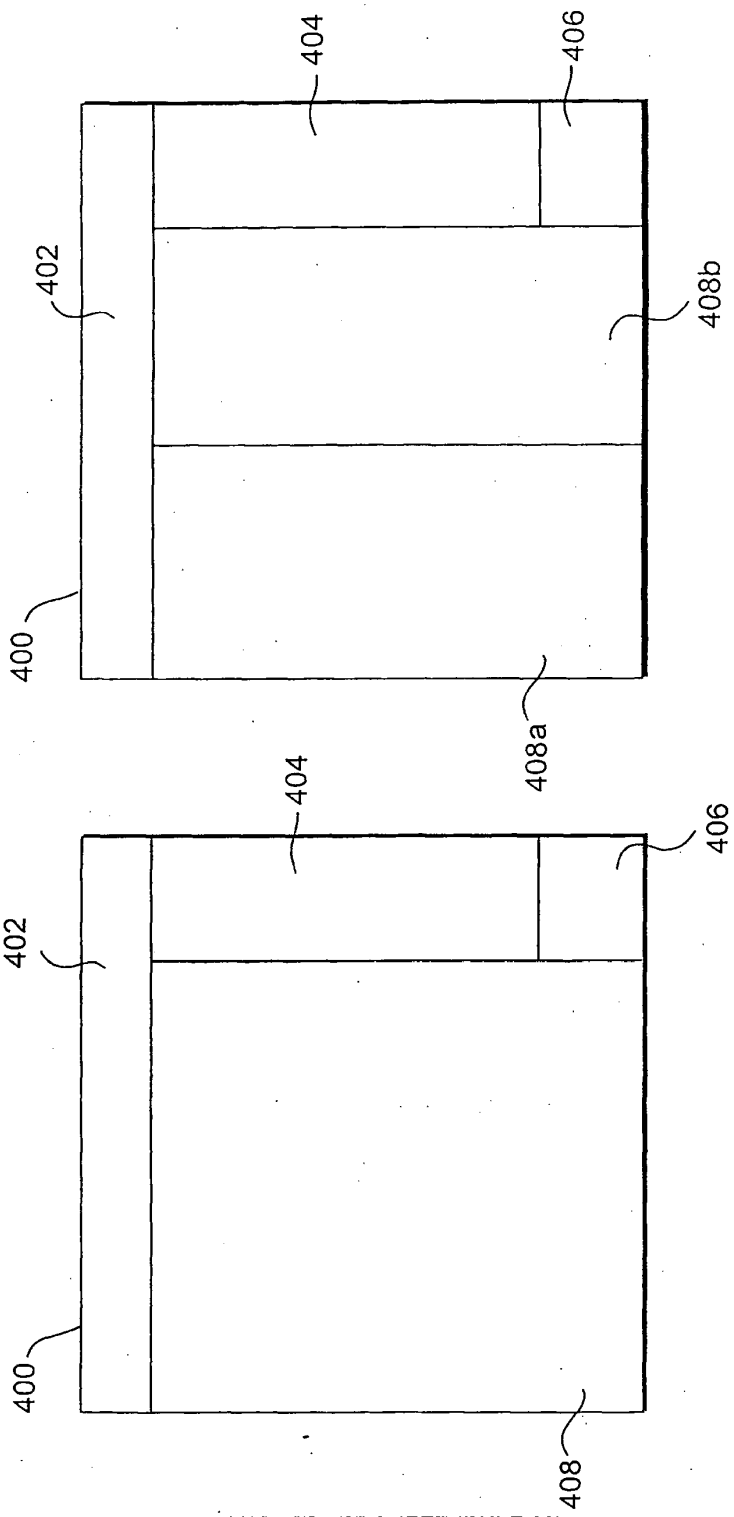


FIG. 4B

FIG. 4A

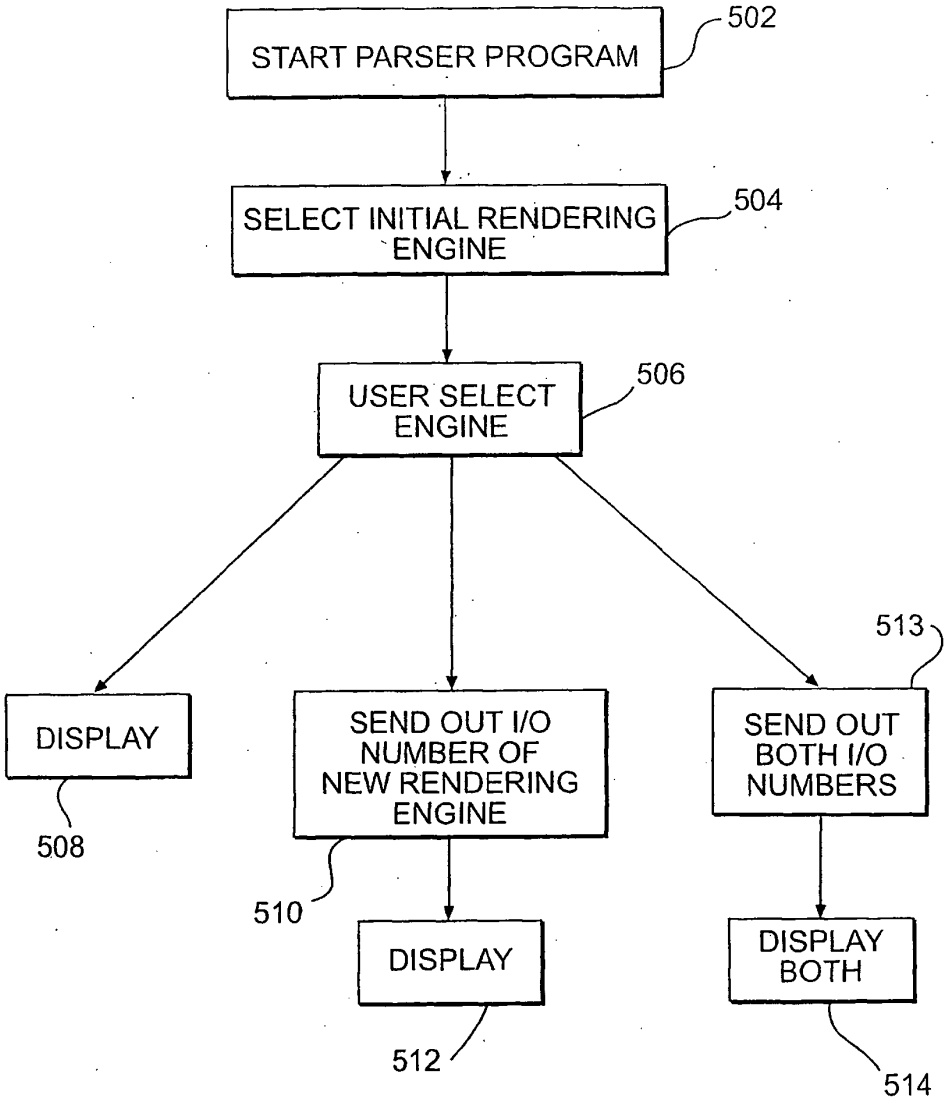

START PARSER PROGRAM
502
SELECT INITIAL RENDERING ENGINE
504
USER SELECT ENGINE
506
DISPLAY
508
SEND OUT I/O NUMBER OF NEW RENDERING ENGINE
510
DISPLAY
512
SEND OUT BOTH I/O NUMBERS
513
DISPLAY BOTH
514

FIG. 5

Electronic Acknowledgement Receipt

EFS ID:	2912026
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	26-FEB-2008
Filing Date:	31-OCT-2007
Time Stamp:	16:00:53
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	20_Alexa.pdf	28441 6eb603169a2023301f9669906ca319eca2edd79e	no	1
Warnings:					
Information:					

2	NPL Documents	21_Alexa.pdf	13328 fc448d71e5041f33f782597eb9c3a735e9e20907	no	1
Warnings:					
Information:					
3	NPL Documents	22_Alexa.pdf	41160 ca6cee91c42de056054b7df3abd00746078f3281	no	1
Warnings:					
Information:					
4	NPL Documents	23_Search_While_You_Surf.pdf	54996 ec83cb3093511e1bac1916ba6495532edbc6438f	no	1
Warnings:					
Information:					
5	NPL Documents	24_Mindspring.pdf	423980 15fc52ae49c6dc93f6734e91ec23fae4a476189b	no	16
Warnings:					
Information:					
6	NPL Documents	25_Morrison.pdf	235533 527132d9a1215257a0da79c1edde668b98a7a6a8	no	5
Warnings:					
Information:					
7	NPL Documents	26_Flanagan.pdf	344787 c51fea8bc65267ea11b0b051b8385e71bee3664e	no	6
Warnings:					
Information:					
8	Foreign Reference	WO_01-80086.pdf	659224 6f16d17354e1e311cf213b5ee2088e7bd16391ed	no	18
Warnings:					
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			Total Files Size (in bytes):	1801449	

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	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	
	Examiner Name	
	Attorney Docket Number	IMS 07-05-07

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	First Named Inventor	John Albert Kembel
	Art Unit	
	Examiner Name	
	Attorney Docket Number	IMS 07-05-07

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	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	
	Examiner Name	
	Attorney Docket Number	IMS 07-05-07

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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.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

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	/Jonathan A. Small/	Date (YYYY-MM-DD)	2008-02-26
Name/Print	Jonathan A. Small	Registration Number	32,631

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:	2914360
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	26-FEB-2008
Filing Date:	31-OCT-2007
Time Stamp:	19:32:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed	IMS-07-05-07-IDS-pt3.pdf	761408 434aba1a6727e9298a41a9144a7c72a a1b6f080a	no	4
Warnings:					
Information:					

Total Files Size (in bytes):	761408

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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.

PTO/SB/08a (05-07)
Approved for use through 11/30/2007. 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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

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	5625781		1997-04-29	Cline et al	
	2	5649186		1997-07-15	Ferguson	
	3	5740549		1998-04-14	Reilly et al	
	4	5761662		1998-06-02	Dasan	
	5	5794230		1998-08-11	Horadan et al	
	6	5796393		1998-08-18	MacNaugton et al	
	7	5796952		1998-08-18	Davis et al	
	8	5801702		1998-09-01	Dolan et al	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

	9	5809248		1998-09-15	Vidovic	
	10	5890172		1999-03-01	Borman et al	
	11	5893091		1996-04-06	Hunt et al	
	12	5948061		1999-09-07	Merriman et al	
	13	5974446		1999-10-26	Sonnenreich et al	
	14	5977964		1999-11-01	Williams et al.	
	15	5983227		1999-11-09	Nazem et al.	
	16	5987513		1999-11-16	Prithviraj et al.	
	17	5995756		1999-11-01	Hermann	
	18	6012090		2000-01-04	Chung et al.	
	19	6012098		2000-01-01	Bayeh et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

	20	6018344		2000-01-25	Harada et el.	
	21	6026433		2000-02-15	D'Arlach et al.	
	22	6065044		2000-05-16	Ogasawara	
	23	6133916		2000-10-01	Bukszar et al.	
	24	6161112		2000-12-12	Cragun et al.	
	25	6177936		2001-01-23	Cragun	
	26	6199082		2005-03-01	Ferrel et al.	
	27	6230173		2005-05-01	Ferrel et al.	
	28	6237030		2001-05-22	Adams et al.	
	29	6268856		2001-07-31	Bruck et al.	
	30	6275854		2001-08-14	Himmel et al	

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	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

	31	6297819		2005-10-01	Furst	
	32	6314451		2001-11-06	Landsman et al.	
	33	6341305		2002-01-22	Wolfe	
	34	6393407		2002-05-21	Middleton et al.	
	35	6411992		2002-06-25	Srinivasan et al.	
	36	6418440		2002-07-09	Kuo et al.	
	37	6434563		2005-08-02	Pasquali et al.	
	38	6460029		2005-10-02	Fries et al.	
	39	6484149		2002-11-19	Jammes et al	
	40	6487566		2005-11-02	Sundaresan	
	41	6537324		2003-03-25	Tabata et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

	42	6538673		2005-03-03	Maslov	
	43	6549612		2003-04-15	Gifford et al.	
	44	6560639		2003-05-06	Dan et al.	
	45	6594682		2005-07-03	Peterson et al.	
	46	6369840		2002-04-09	Barnett et al.	
	47	6751606		2004-06-15	Fries et al.	
	48	6784900		2005-08-04	Dobronsky et al.	
	49	6816880		2004-11-09	Strandberg et al.	
	50	6842779		2005-01-11	Nishizawa	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

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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 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	11932585
	Filing Date	2007-10-31
	First Named Inventor	John Albert Kembel
	Art Unit	N/A
	Examiner Name	Not yet assigned
	Attorney Docket Number	IMS 07-05-07

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.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ None

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	/Jonathan A. Small/	Date (YYYY-MM-DD)	2008-02-25
Name/Print	Jonathan A. Small	Registration Number	32,631

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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.

Electronic Acknowledgement Receipt

EFS ID:	2906022
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	25-FEB-2008
Filing Date:	31-OCT-2007
Time Stamp:	17:07:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed	IMS-07-05-07-IDS-pt1.pdf	1195969 3c0f855c1e2da03bd3abe46bed75b4a36648365b	no	8
Warnings:					
Information:					

Total Files Size (in bytes):	1195969

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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
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PATENT APPLICATION
Attorney Docket No. **IMS 07-05-07**

CERTIFICATE OF ELECTRONIC FILING SYSTEM TRANSMISSION
AS REQUIRED BY 37 C.F.R 1.8(a)(1)(ii)

I hereby certify that this correspondence is being submitted using the U.S. Patent Office electronic filing system, EFS-Web, pursuant to 37 C.F.R. 1.6(a)(4) on **February 20, 2008**.

Typed or printed name of person signing this certificate
Jonathan A. Small

Electronic Signature: /Jonathan A. Small/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): John Albert Kembel	)	Confirm. No. : 2646
	)	
Appl. No. : 11/932,585	)	TC/A.U. : Unknown
	)	
Filed: 10/31/2007	)	Examiner: Unknown

Title: System and Methods for Creating and Authoring Internet Content Using Application Media Packages

Submitted via EFS-Web

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Response to Notice of Incomplete Reply (Nonprovisional)

Sir:

In response to the Notice of Incomplete Reply (Nonprovisional) mailed on January 23, 2008 (the "Notice") in the above-captioned application, applicant submits herewith amended and formal drawings. The only amendment to the drawings is to correct the mislabeling of Fig. 12C (originally filed as the second of two "Fig. 12A"s). Annotated and Replacement sheets are

submitted herewith for the sheet containing that figure. In addition, a complete formal set of drawings are submitted herewith. These formal drawings merely more clearly represent the drawings as filed (and amended herein), and clarify elements identified as blurry (Figs. 1 and 9).

A one month extension of time to respond to the original Notice of Missing Parts, mailed November 29, 2007 is also hereby requested. Fees for this extension are submitted herewith via EFS-Web.

If the Patent Office believes that a telephone conference would expedite prosecution and allowance of this application, please telephone the undersigned at 650-941-4470.

Respectfully submitted,

/Jonathan A. Small/

Jonathan A. Small
Registration No. 32,631

309 Second St., Suite 8
Los Altos, CA 94022

Date: February 20, 2008

Telephone: 650-941-4470

ANNOTATED SHEET

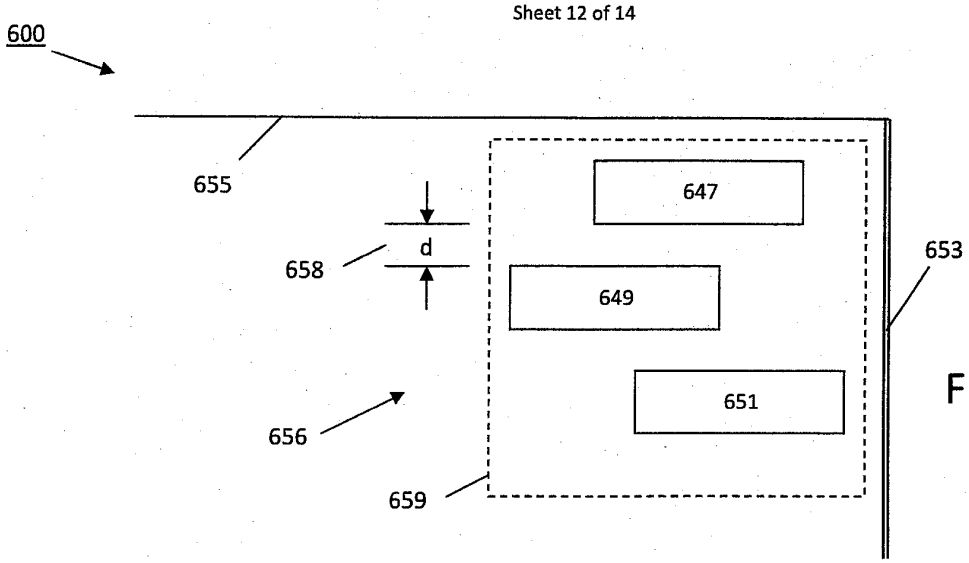


Fig. 12A

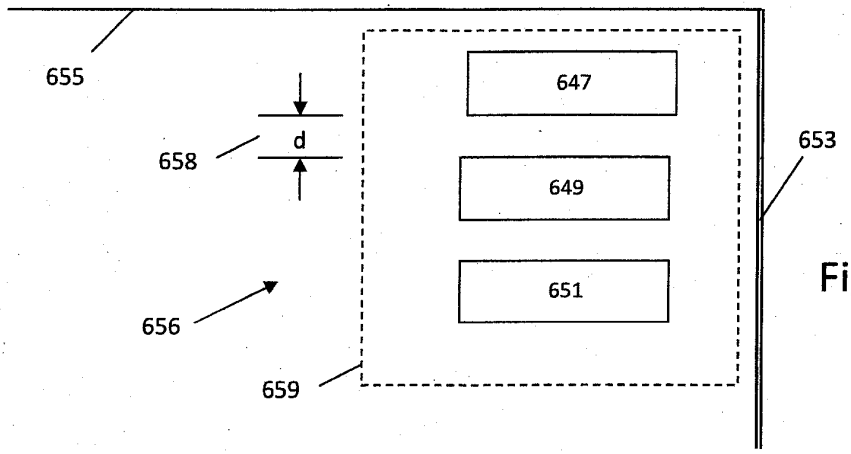


Fig. 12B

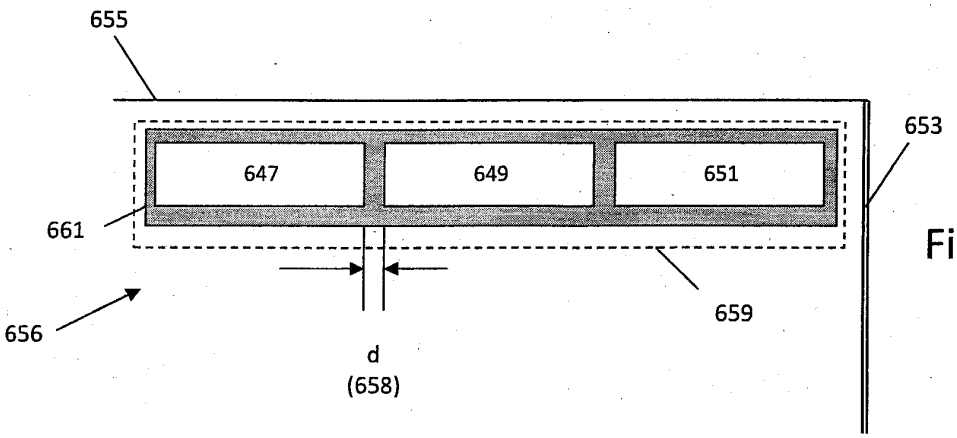


Fig. 12A

12C

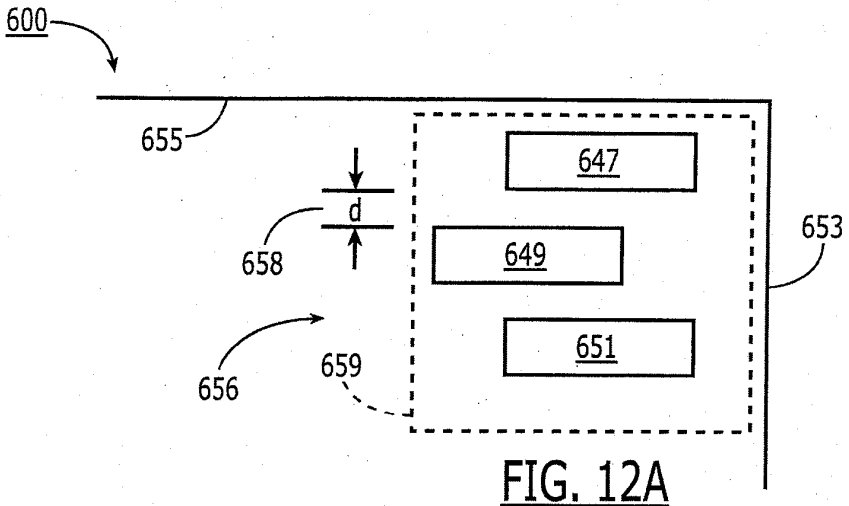


FIG. 12A

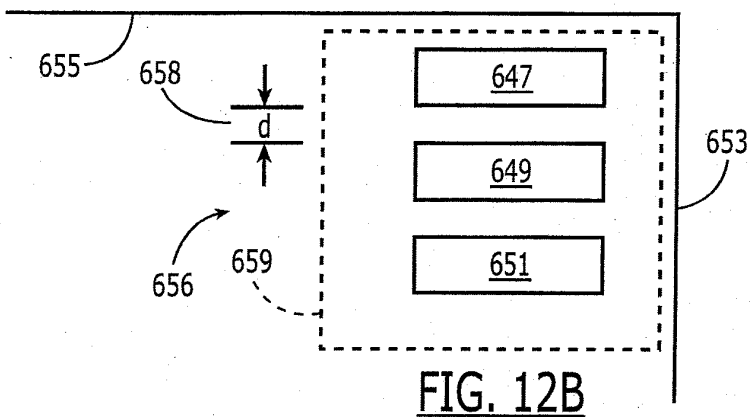


FIG. 12B

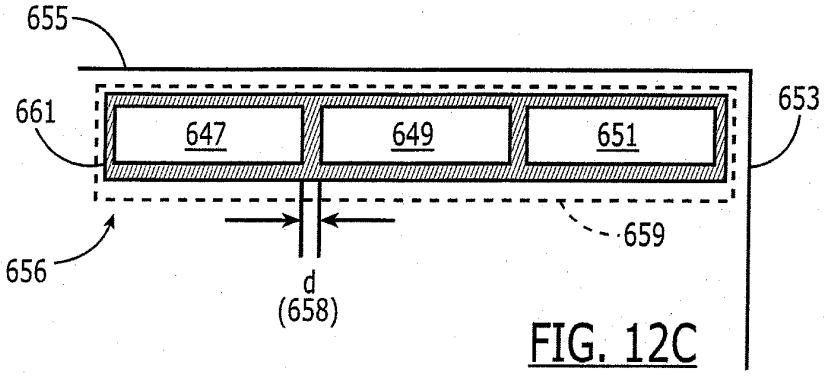


FIG. 12C

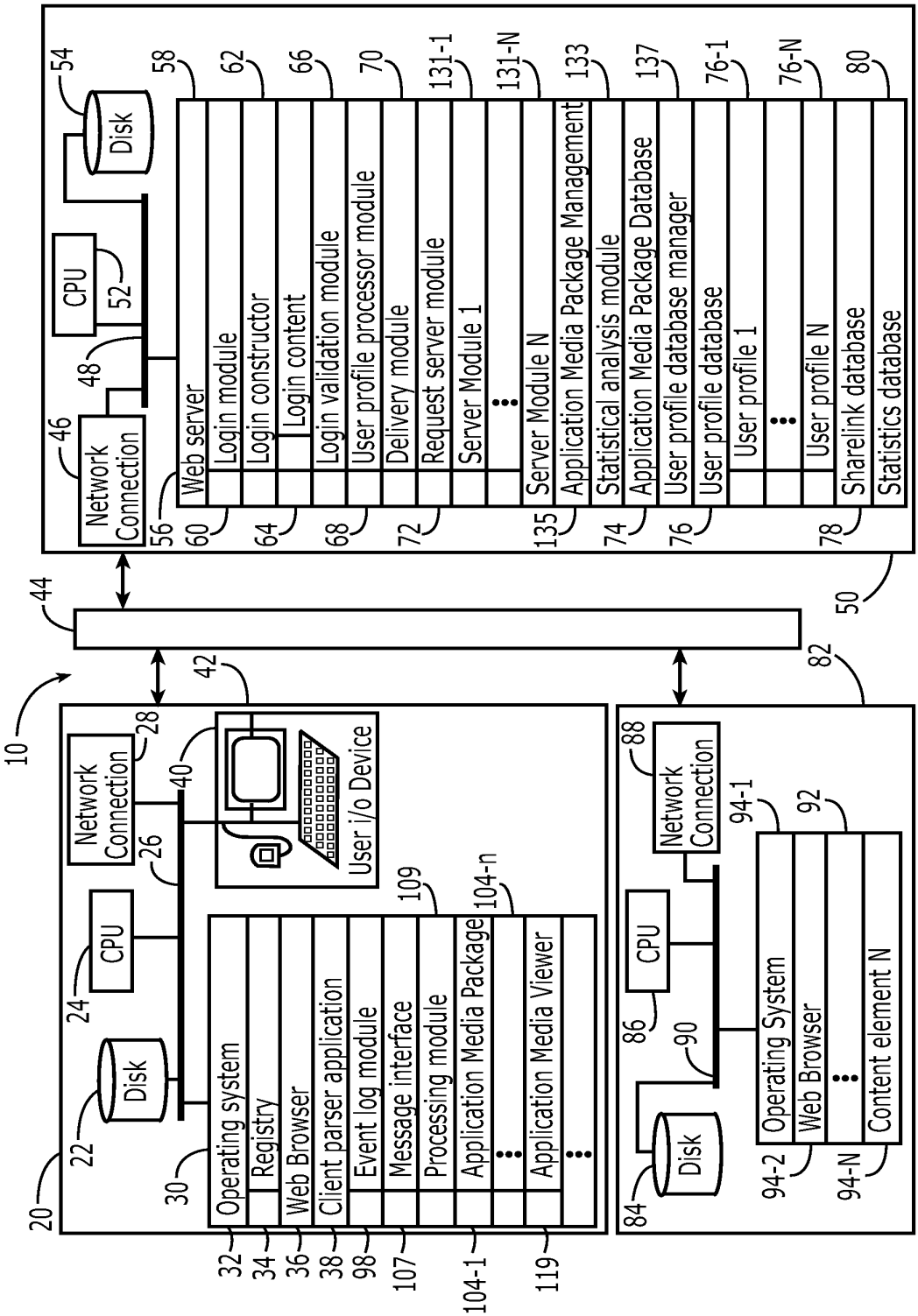

10
20
22
Disk
24
CPU
26
Network Connection
28
30
Operating system
Registry
Web Browser
Client parser application
Event log module
Message interface
Processing module
Application Media Package
Application Media Viewer
32
34
36
38
98
107
104-1
109
104-n
119
40
User i/o Device
42
44
46
Network Connection
48
CPU
52
54
Disk
50
56
Web server
58
Login module
60
62
Login constructor
64
Login content
66
Login validation module
68
User profile processor module
70
Delivery module
72
Request server module
131-1
Server Module 1
131-N
Server Module N
135
Application Media Package Management
133
Statistical analysis module
74
Application Media Package Database
137
User profile database manager
76
User profile database
76-1
User profile 1
76-N
User profile N
78
Sharelink database
80
Statistics database
82
84
Disk
86
CPU
88
Network Connection
90
94-1
Operating System
92
Web Browser
94-2
Content element N
94-N

FIG. 1

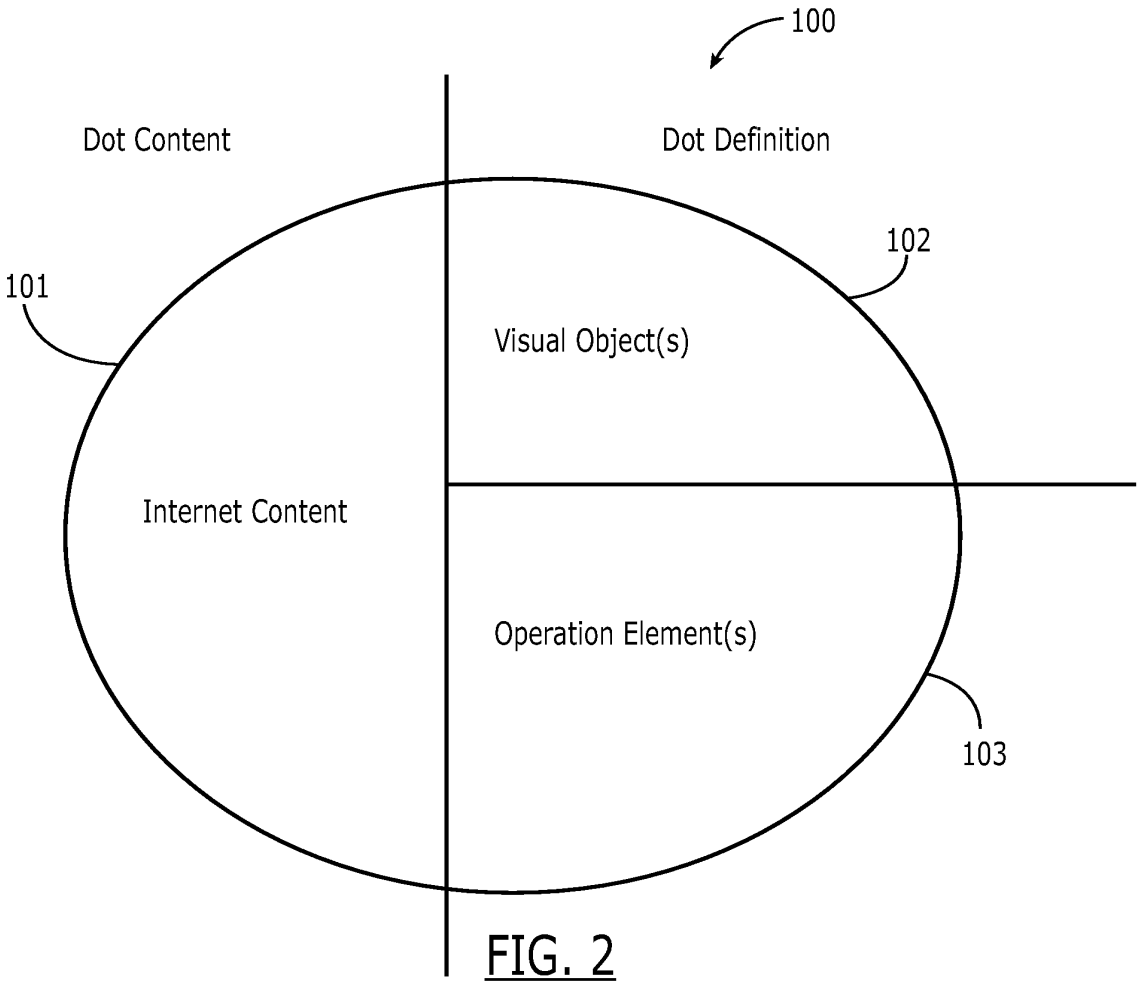

100
Dot Content
Dot Definition
101
102
Visual Object(s)
Internet Content
Operation Element(s)
103

FIG. 2

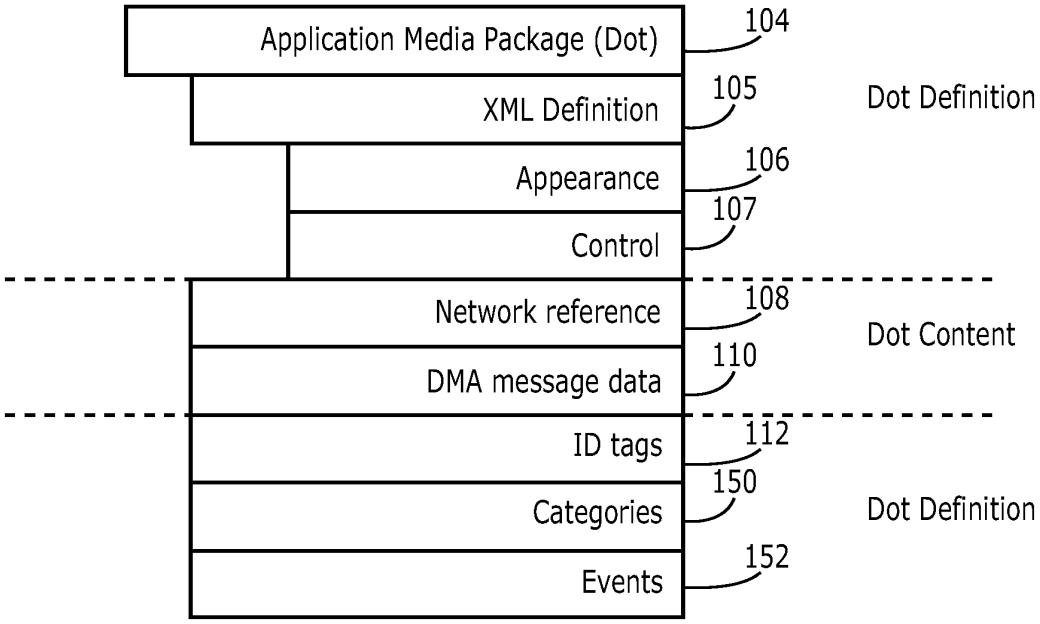

Application Media Package (Dot)
104
XML Definition
105
Dot Definition
Appearance
106
Control
107
Network reference
108
Dot Content
DMA message data
110
ID tags
112
Categories
150
Dot Definition
Events
152

FIG. 3

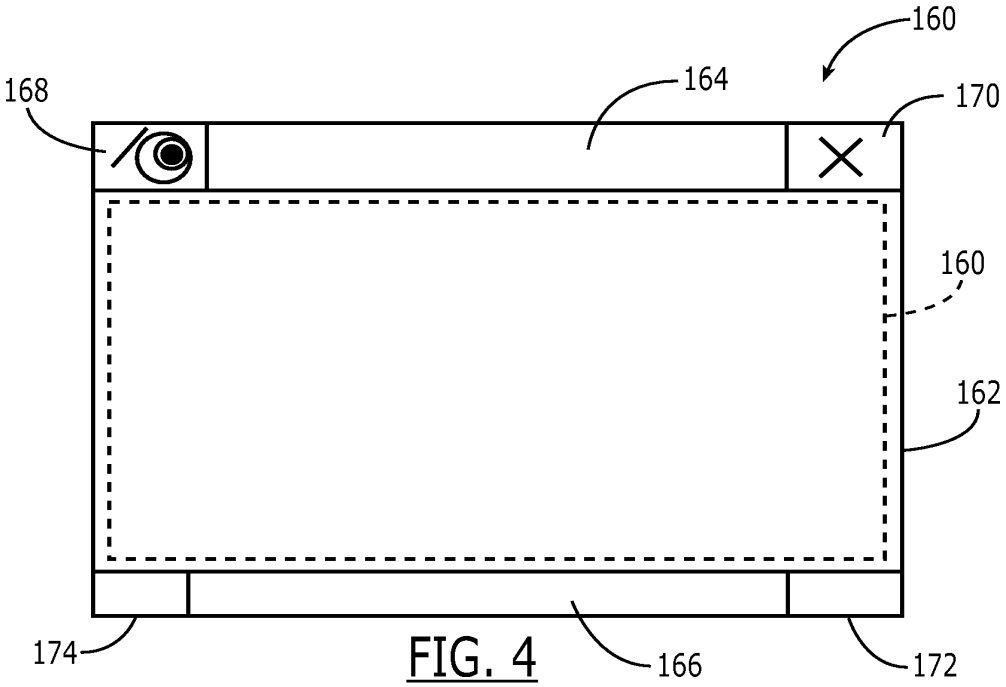


FIG. 4

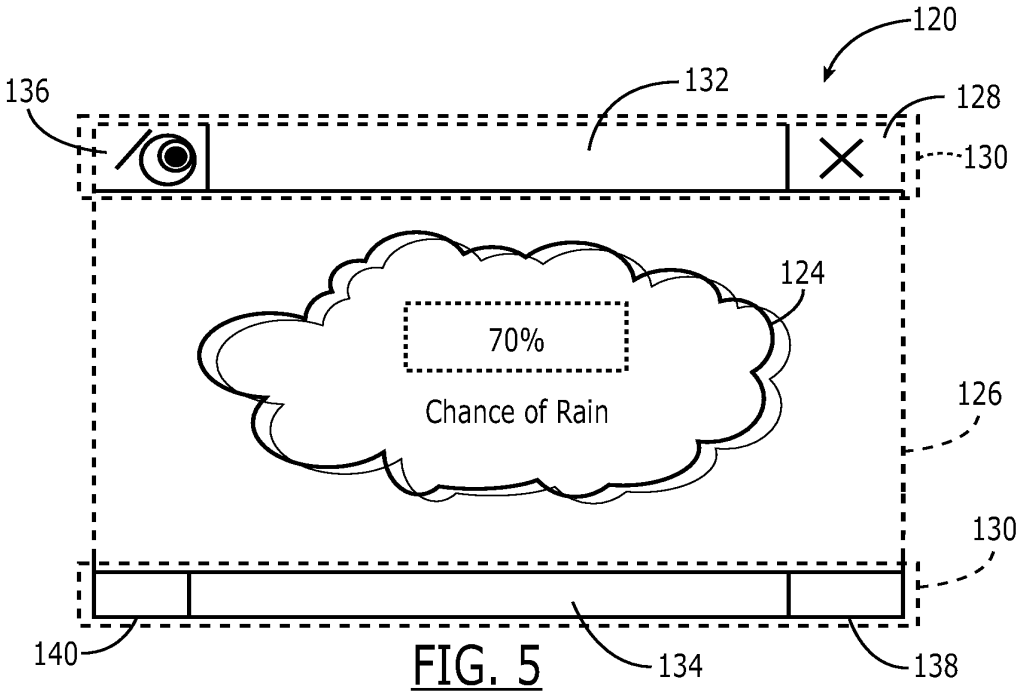


FIG. 5

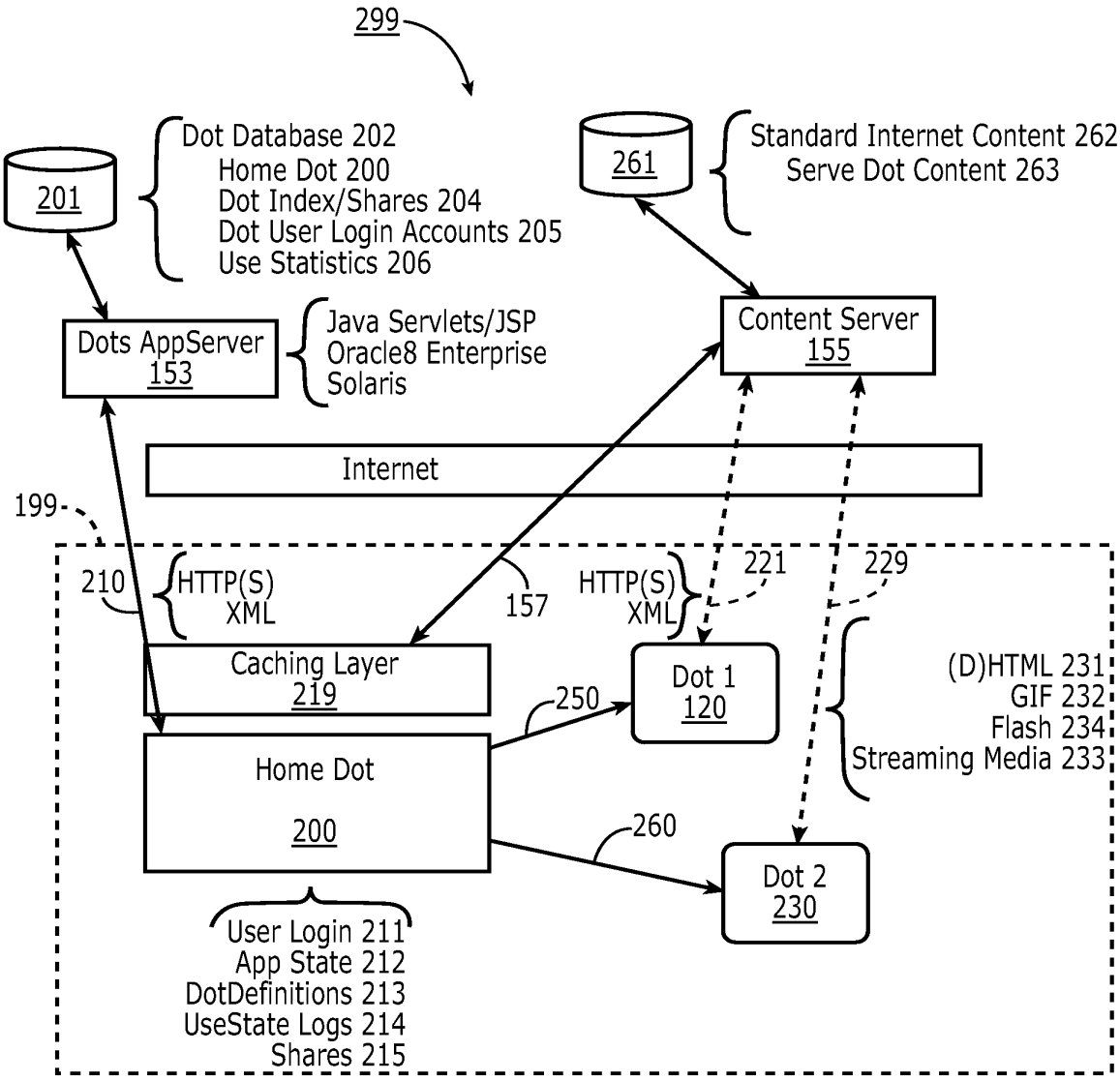

299
201
Dot Database 202
Home Dot 200
Dot Index/Shares 204
Dot User Login Accounts 205
Use Statistics 206
261
Standard Internet Content 262
Serve Dot Content 263
Dots AppServer
153
Java Servlets/JSP
Oracle8 Enterprise
Solaris
Content Server
155
Internet
199
210
HTTP(S)
XML
157
HTTP(S)
XML
221
229
Caching Layer
219
Dot 1
120
250
(D)HTML 231
GIF 232
Flash 234
Streaming Media 233
Home Dot
200
260
Dot 2
230
User Login 211
App State 212
DotDefinitions 213
UseState Logs 214
Shares 215

FIG. 6

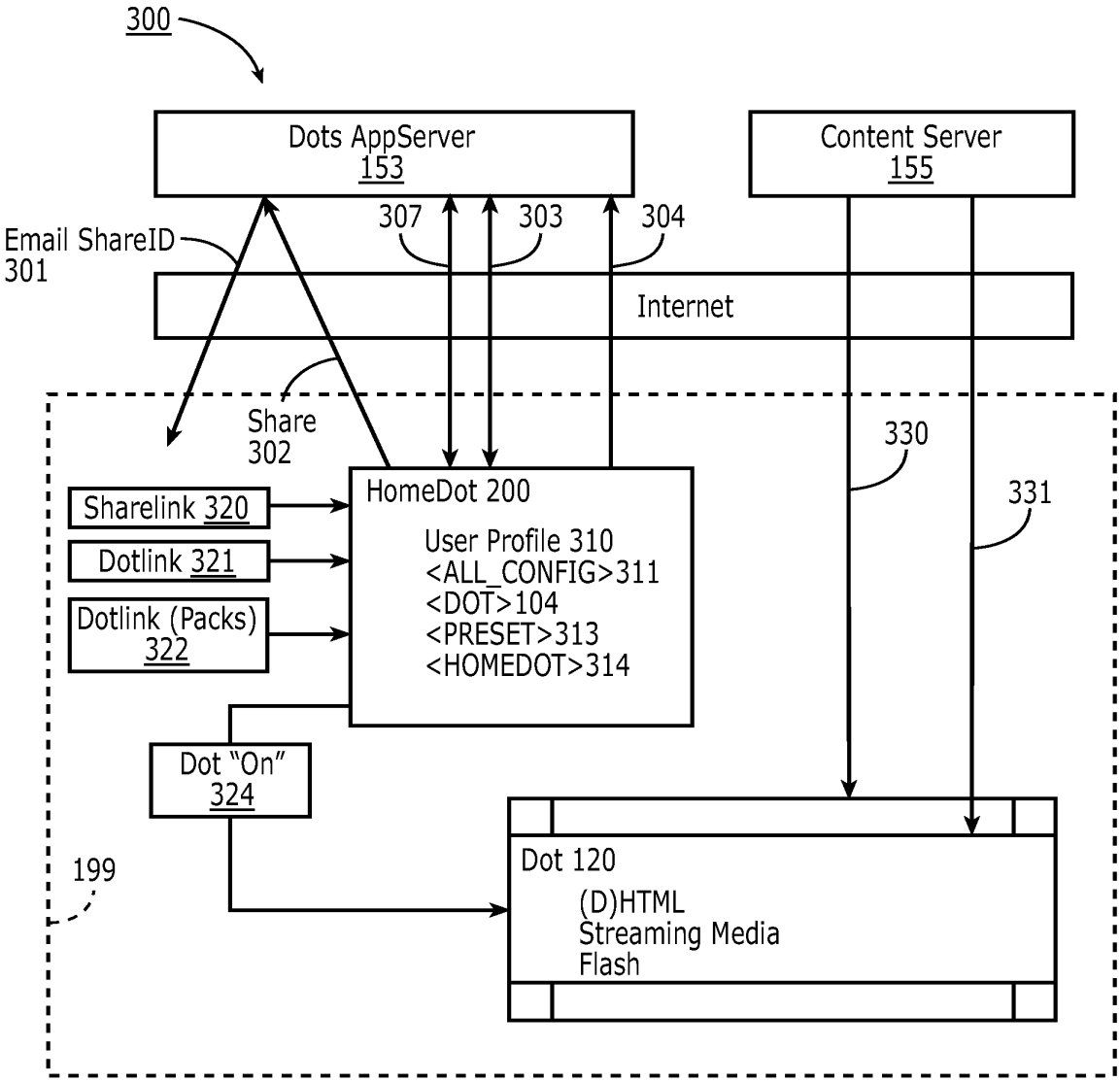

300
Dots AppServer
153
Content Server
155
307
303
304
Email ShareID
301
Internet
Share
302
330
331
HomeDot 200
User Profile 310
<ALL_CONFIG>311
<DOT>104
<PRESET>313
<HOMEDOT>314
Sharelink 320
Dotlink 321
Dotlink (Packs)
322
Dot "On"
324
199
Dot 120
(D)HTML
Streaming Media
Flash

FIG. 7

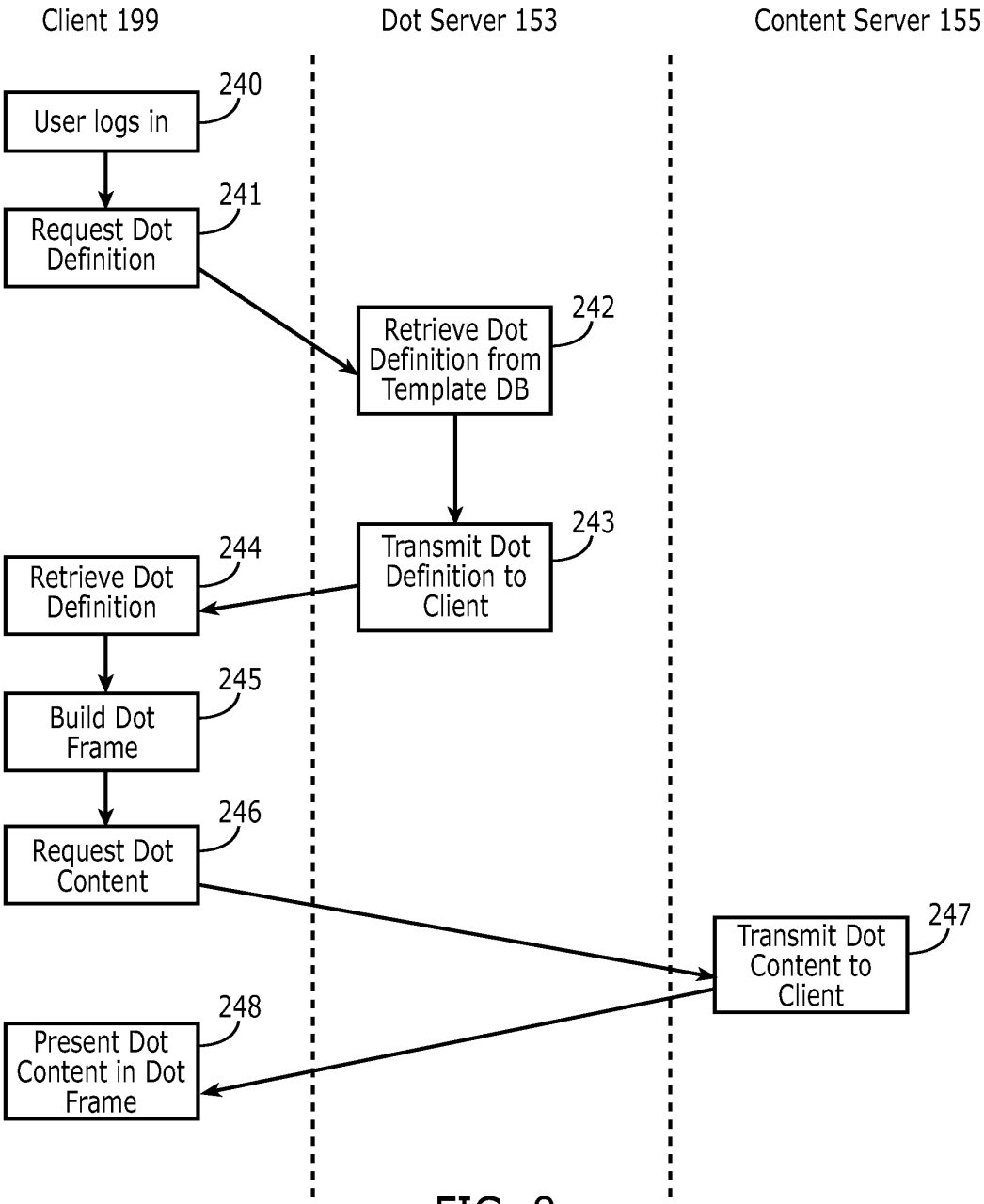

Client 199
Dot Server 153
Content Server 155
User logs in
240
Request Dot Definition
241
Retrieve Dot Definition from Template DB
242
Transmit Dot Definition to Client
243
Retrieve Dot Definition
244
Build Dot Frame
245
Request Dot Content
246
Transmit Dot Content to Client
247
Present Dot Content in Dot Frame
248

FIG. 8

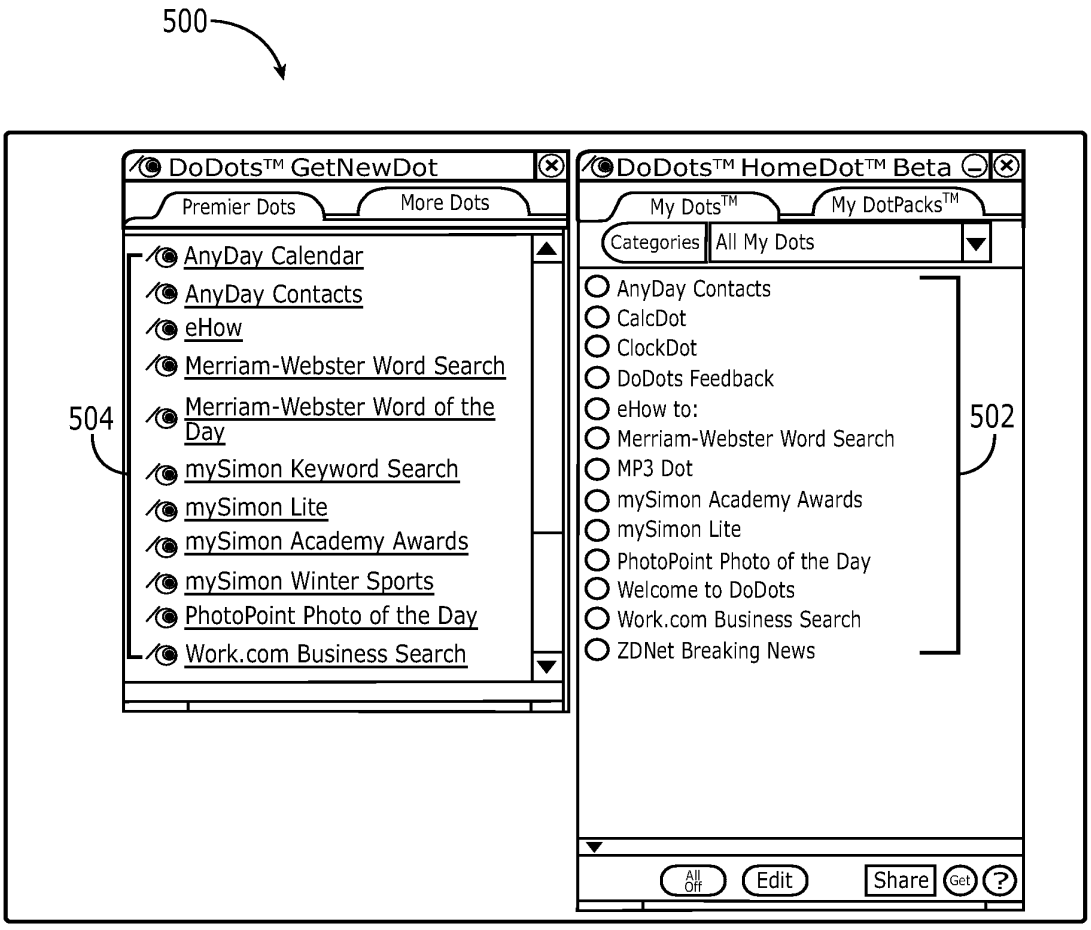

500
DoDots™ GetNewDot
Premier Dots
More Dots
AnyDay Calendar
AnyDay Contacts
eHow
Merriam-Webster Word Search
Merriam-Webster Word of the Day
mySimon Keyword Search
mySimon Lite
mySimon Academy Awards
mySimon Winter Sports
PhotoPoint Photo of the Day
Work.com Business Search
504
DoDots™ HomeDot™ Beta
My Dots™
My DotPacks™
Categories
All My Dots
AnyDay Contacts
CalcDot
ClockDot
DoDots Feedback
eHow to:
Merriam-Webster Word Search
MP3 Dot
mySimon Academy Awards
mySimon Lite
PhotoPoint Photo of the Day
Welcome to DoDots
Work.com Business Search
ZDNet Breaking News
502
All Off
Edit
Share
Get

FIG. 9

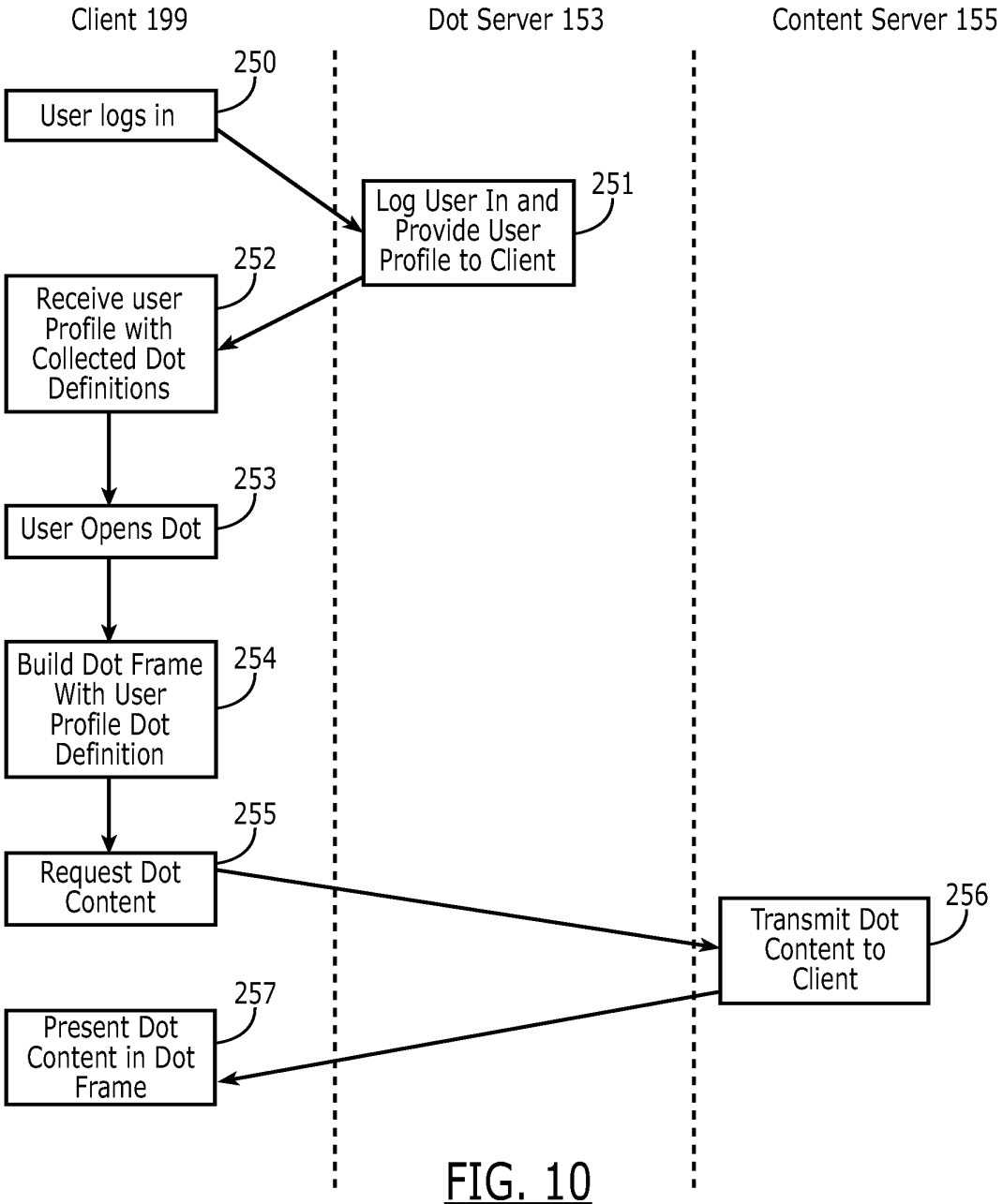

Client 199
Dot Server 153
Content Server 155
250
User logs in
Log User In and Provide User Profile to Client
251
252
Receive user Profile with Collected Dot Definitions
253
User Opens Dot
Build Dot Frame With User Profile Dot Definition
254
255
Request Dot Content
Transmit Dot Content to Client
256
257
Present Dot Content in Dot Frame

FIG. 10

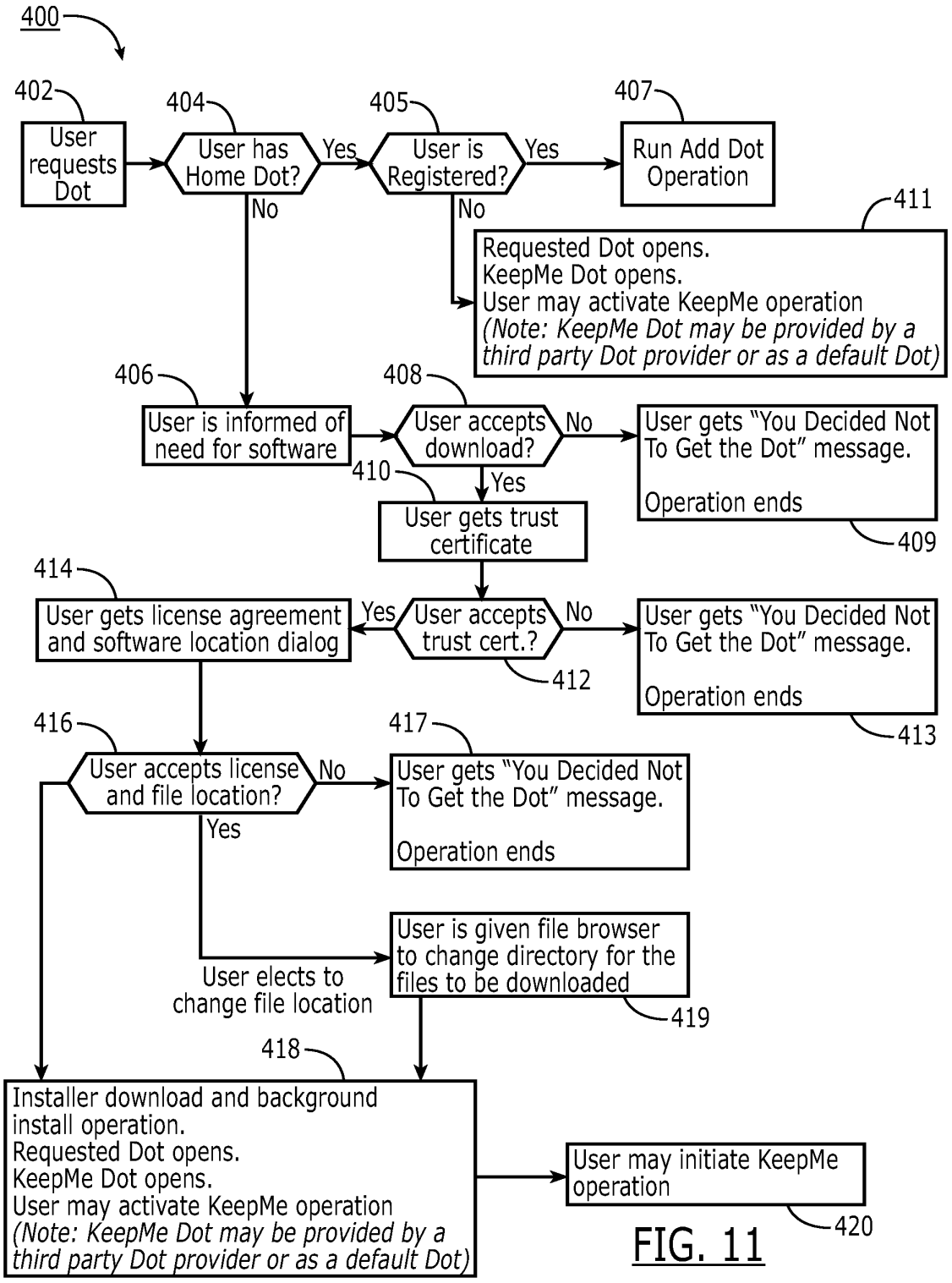

400
402
User requests Dot
404
User has Home Dot?
Yes
405
User is Registered?
Yes
407
Run Add Dot Operation
No
No
411
Requested Dot opens.
KeepMe Dot opens.
User may activate KeepMe operation
(Note: KeepMe Dot may be provided by a third party Dot provider or as a default Dot)
406
User is informed of need for software
408
User accepts download?
No
User gets "You Decided Not To Get the Dot" message.
Operation ends
409
410
Yes
User gets trust certificate
414
User gets license agreement and software location dialog
Yes
User accepts trust cert.?
No
412
User gets "You Decided Not To Get the Dot" message.
Operation ends
413
416
User accepts license and file location?
No
417
User gets "You Decided Not To Get the Dot" message.
Operation ends
Yes
User elects to change file location
User is given file browser to change directory for the files to be downloaded
419
418
Installer download and background install operation.
Requested Dot opens.
KeepMe Dot opens.
User may activate KeepMe operation
(Note: KeepMe Dot may be provided by a third party Dot provider or as a default Dot)
User may initiate KeepMe operation
420

FIG. 11

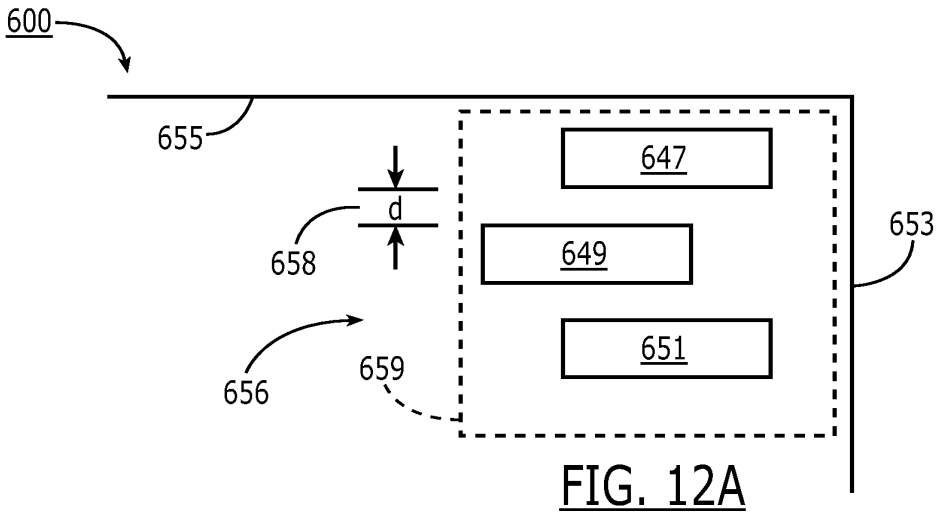


FIG. 12A

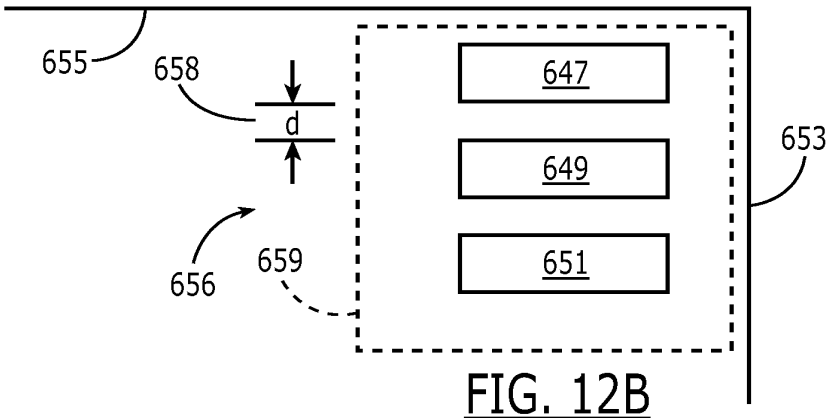


FIG. 12B

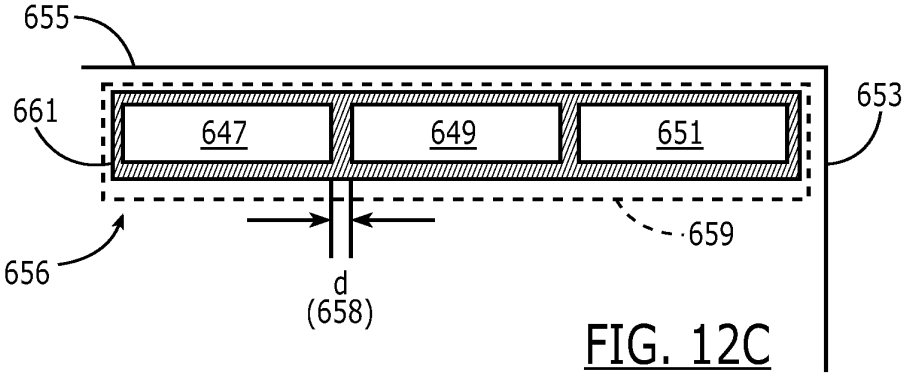


FIG. 12C

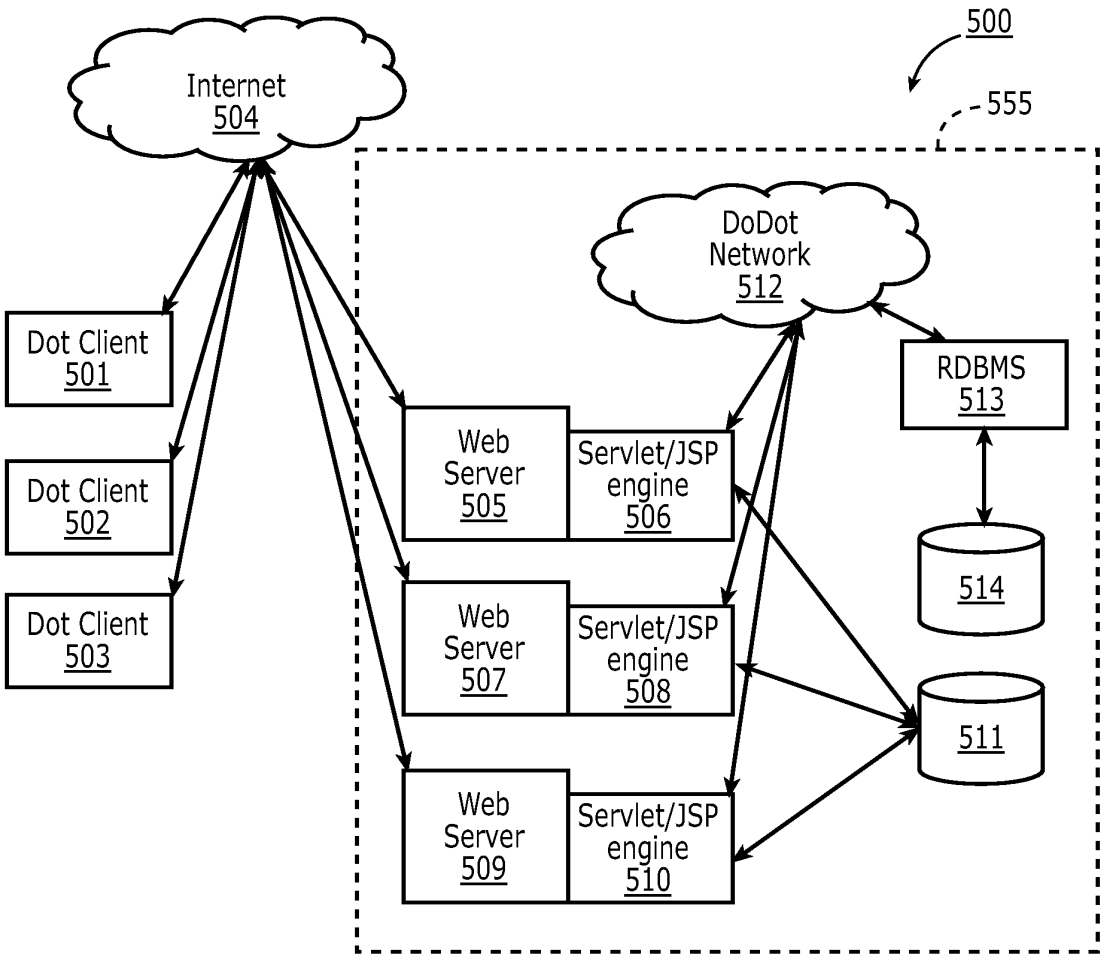

500
555
Internet
504
DoDot
Network
512
RDBMS
513
Dot Client
501
Dot Client
502
Dot Client
503
Web
Server
505
Servlet/JSP
engine
506
Web
Server
507
Servlet/JSP
engine
508
Web
Server
509
Servlet/JSP
engine
510
514
511

FIG. 13

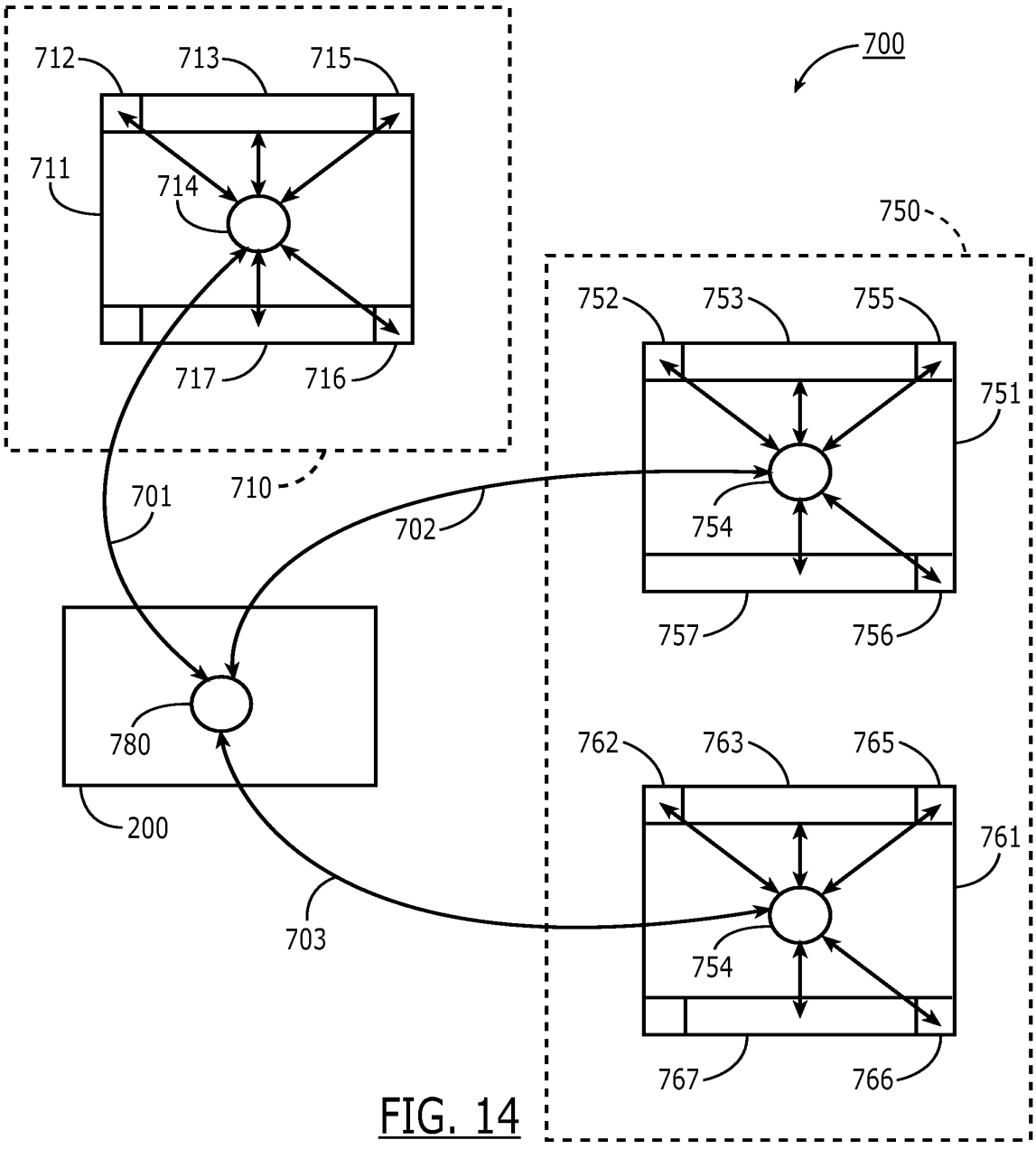

700
712
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702
750
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780
200
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763
765
761
754
767
766
703

FIG. 14

Electronic Patent Application Fee Transmittal

Application Number:	11932585
Filing Date:	31-Oct-2007
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Filer:	Jonathan Andrew Small
Attorney Docket Number:	IMS 07-05-07
Filed as Small Entity	

Utility 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 - 1 month with $0 paid	2251	1	60	60

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**60**

Electronic Acknowledgement Receipt

EFS ID:	2888936
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	20-FEB-2008
Filing Date:	31-OCT-2007
Time Stamp:	22:06:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$60
RAM confirmation Number	4358
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)

1	Applicant Response to Pre-Exam Formalities Notice	IMS-07-05-07_Resp_Dwgs.pdf	55419 c5dfa1489ac050ba6c4d46345b0df4009cb3e57f	no	2
Warnings:					
Information:					
2	Applicant Response to Pre-Exam Formalities Notice	IMS-07-05_annotated_sheet.pdf	22045 548258ff77e5d03cd977c86e5ce1b33fd4df6e5	no	1
Warnings:					
Information:					
3	Applicant Response to Pre-Exam Formalities Notice	IMS-07-05_replacement_sheet.pdf	17050 b4ec2303746e09bd3d8908475c5fe46590421472	no	1
Warnings:					
Information:					
4	Drawings-only black and white line drawings	ims-07-05-dwgs.pdf	55464 bac94aa5e0b925a136afcd48112b714c0a2164ed	no	14
Warnings:					
Information:					
5	Fee Worksheet (PTO-06)	fee-info.pdf	8174 28d3c92290abda44fa58823cea2a486ea66c2ba8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	158152		

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.

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
11/932,585	10/31/2007	John Albert Kembel	IMS 07-05-07

CONFIRMATION NO. 2646

43785
JONATHAN A. SMALL
JAS IP CONSULTING
343 SECOND STREET
SUITE F
LOS ALTOS, CA 94022

FORMALITIES LETTER

OC000000027841473

Date Mailed: 01/23/2008

NOTICE OF INCOMPLETE REPLY (NONPROVISIONAL)

Filing Date Granted

The U.S. Patent and Trademark Office has received your reply on 01/16/2008 to the Notice to File Missing Parts (Notice) mailed 11/29/2007 and it has been entered into the nonprovisional application. The reply, however, does not include the following items required in the Notice.

The period of reply remains as set forth in the Notice. You may, however, obtain EXTENSIONS OF TIME under the provisions of 37 CFR 1.136(a) accompanied by the appropriate fee (37 CFR 1.17(a)).

A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application. Replies should be mailed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

Items Required to Avoid Abandonment:

The required items noted below SHOULD be filed along with any items required above. The filing date of this nonprovisional application will be the date of receipt of the items required above.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
  - The drawings submitted to the Office are not electronically reproducible because portions of figures 1,9 are missing and/or blurry.
  - The drawings are not in compliance with 37 CFR 1.84 because figures 1 contain figure or view numbers that have incorrect orientation. Reference characters, sheet numbers, and view numbers must be oriented in the same direction as the view. See 37 CFR 1.84(p)(1).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/tlulu/

Office of Initial Patent Examination (571) 272-4000 or 1-800-PTO-9199

PATENT APPLICATION
Attorney Docket No. **IMS 07-05-07**

CERTIFICATE OF ELECTRONIC FILING SYSTEM TRANSMISSION
AS REQUIRED BY 37 C.F.R 1.8(a)(1)(ii)

I hereby certify that this correspondence is being submitted using the U.S. Patent Office electronic filing system, EFS-Web, pursuant to 37 C.F.R. 1.6(a)(4) on **January 16, 2008**.

Typed or printed name of person signing this certificate
Jonathan A. Small

Electronic Signature: /Jonathan A. Small/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): John Albert Kembel	)	Confirm. No. : 2646
	)	
Appl. No. : 11/932,585	)	TC/A.U. : Not yet assigned
	)	
Filed: 10/31/2007	)	Examiner: Not yet assigned

Title: Component For Accessing And Displaying Internet Content

Filed via EFS-Web
Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Response to Notice to File Missing Parts of Nonprovisional Application Filed under 37 CFR 1.53(b)

Sir:

In response to the Notice to File Missing Parts of Nonprovisional Application mailed on November 29, 2007 (the "Notice"), in the above-identified application, applicant submits the declaration filed in the parent application pursuant to 37 CFR 37 CFR 1.63(d). Also submitted herewith is an updated Application Data Sheet, listing all inventors listed in the aforementioned declaration. As the executed declaration is being first filed herewith, the requirements of 37

CFR 1.48(a) do not apply to any changes between the list of inventors in the original Application Data Sheet and in the Application Data Sheet and declaration filed herewith. Filing fees for the present application are being separately submitted via EFS-Web. The application should now be in condition for examination.

If the Patent Office believes that a telephone conference would expedite prosecution and allowance of this application, please telephone the undersigned at 650-941-4470.

Respectfully submitted,

/Jonathan A. Small/

Electronic signature
Jonathan A. Small
Registration No. 32,631

343 Second St., Suite F
Los Altos, CA 94022

Date: January 16, 2008

Telephone: 650-941-4470

DECLARATION FOR PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled ***Apparatus and Method of Hosting Internet Content*** the specification of which

[ ] is attached hereto.

[x] was filed on April 26, 2000 as Application Serial No. 09/558,922 and was amended on _____. (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed
_____	_____	_____	Yes [ ] No [ ]
(Number)	(Country)	(Date Filed)	

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

60/131,083	April 26, 1999
(Application Serial No.)	(Filing Date)
60/131,115	April 26, 1999
(Application Serial No.)	(Filing Date)
60/131,114	April 26, 1999
(Application Serial No.)	(Filing Date)
60/176,687	January 18, 2000
(Application Serial No.)	(Filing Date)
60/176,699	January 18, 2000
(Application Serial No.)	(Filing Date)

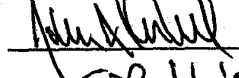
Direct all telephone calls to William S. Galliani at (650) 493-4935. Address all correspondence to:

PENNIE & EDMONDS LLP
3300 Hillview Avenue
Palo Alto, CA 94304

File No. 10351-0004

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: John Albert Kembel

Inventor's signature: 

Date: SEP 11 '00

Residence: 2334 Williams Street, Palo Alto, CA 94306

Citizenship: USA

Post Office Address: 2334 Williams Street
Palo Alto, CA 94306

Full name of second joint inventor, if any: George Andrew Kembel

Inventor's signature:

Date: 9/11/00

Residence: 1045 Santa Cruz Avenue, Apt. F, Menlo Park, CA 94025

Citizenship: USA

Post Office Address: 1045 Santa Cruz Avenue, Apt. F

Menlo Park, CA 94025

Full name of third joint inventor, if any: Daniel S. Kim

Inventor's signature:

Date: 9/8/2000

Residence: 408 Pepper Avenue, Palo Alto, CA 94306

Citizenship: USA

Post Office Address: 408 Pepper Avenue

Palo Alto, CA 94306

Full name of fourth joint inventor, if any: John Russell

Inventor's signature:

Date: 9.8.00

Residence: 605 Colorado Avenue, Palo Alto, CA 94306

Citizenship: USA

Post Office Address: 605 Colorado Avenue

Palo Alto, CA 94306

Full name of fifth joint inventor, if any: Jake Wobbrock

Inventor's signature:

Date: 9/8/2000

Residence: 1091 Tanland Drive, #201, Palo Alto, CA 94303

Citizenship: USA

Post Office Address: 1091 Tanland Drive, #201

Palo Alto, CA 94303

Full name of sixth joint inventor, if any: Geoffrey S. Kembel

Inventor's signature:

Date: 9/8/2000

Residence: 1045 Santa Cruz Avenue, Apt. F, Menlo Park, CA 94025

Citizenship: USA

Post Office Address: 1045 Santa Cruz Avenue, Apt. F

Menlo Park, CA 94025

Full name of seventh joint inventor, if any: Jeremy L. Kembel

Inventor's signature:

Date: 9/8/2000

Residence: 213 Fulton Street, Palo Alto, CA 94301

Citizenship: USA

Post Office Address: 213 Fulton Street,

Palo Alto, CA 94301

Full name of eighth joint inventor, if any: Joseph A. Bella

Inventor's signature:

Date: 9/20/2000

Residence: 1 Conrad Street, San Francisco, CA 94131

Citizenship: USA

Post Office Address: 1 Conrad Street

San Francisco, CA 94131

Full name of ninth joint inventor, if any: Sridhar T. Devulkar

Inventor's signature:

Date:

Residence: 1324 S. Winchester Blvd., San Jose, CA 95128

Citizenship: USA

Post Office Address: 1324 S. Winchester Blvd.

San Jose, CA 95128

Full name of sixth joint inventor, if any: Geoffrey S. Kembel

Inventor's signature:

Date:

Residence: 1045 Santa Cruz Avenue, Apt. F, Menlo Park, CA 94025

Citizenship: USA

Post Office Address: 1045 Santa Cruz Avenue, Apt. F

Menlo Park, CA 94025

Full name of seventh joint inventor, if any: Jeremy L. Kembel

Inventor's signature:

Date:

Residence: 213 Fulton Street, Palo Alto, CA 94301

Citizenship: USA

Post Office Address: 213 Fulton Street,

Palo Alto, CA 94301

Full name of eighth joint inventor, if any: Joseph A. Bella

Inventor's signature:

Date:

Residence: 1 Conrad Street, San Francisco, CA 94131

Citizenship: USA

Post Office Address: 1 Conrad Street

San Francisco, CA 94131

Full name of ninth joint inventor, if any: Sridhar T. Devulkar

Inventor's signature: S. Sridhar

Date: 10/03/2000

Residence: 1324 S. Winchester Blvd., San Jose, CA 95128

Citizenship: USA

Post Office Address: 1324 S. Winchester Blvd.

San Jose, CA 95128

Full name of tenth joint inventor, if any:	Mark Wallin
Inventor's signature:	Mark Wallin
Date:	9/20/00
Residence:	814 East Dana, Mountain View, CA 94030
Citizenship:	USA
Post Office Address:	814 East Dana Mountain View, CA 94030

PTO/SB/14 (07-07)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

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.)

Applicant Information:

Applicant 1 Remove

Applicant Authority	◉ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	John	Albert	Kembel	

Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

City	Palo Alto	State/Province	CA	Country of Residence [i]	US

Citizenship under 37 CFR 1.41(b) [i]: US

Mailing Address of Applicant:

Address 1	2334 Williams Street		
Address 2			
City	Palo Alto	State/Province	CA
Postal Code	94306	Country [i]	US

Applicant 2 Remove

Applicant Authority	◯ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	George	Andrew	Kembel	

Residence Information (Select One) ◯ US Residency ◯ Non US Residency ◯ Active US Military Service

City	Menlo Park	State/Province	CA	Country of Residence [i]	US

Citizenship under 37 CFR 1.41(b) [i]: US

Mailing Address of Applicant:

Address 1	1045 Santa Cruz Avenue, Apartment F		
Address 2			
City	Menlo Park	State/Province	CA
Postal Code	94025	Country [i]	US

Applicant 3 Remove

Applicant Authority	◯ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Daniel		Kim	

Residence Information (Select One) ◯ US Residency ◯ Non US Residency ◯ Active US Military Service

City	Palo Alto	State/Province	CA	Country of Residence [i]	US

PTO/SB/14 (07-07)
Approved for use through 06/30/2010. 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	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

Citizenship under 37 CFR 1.41(b) i	US				
Mailing Address of Applicant:					
Address 1	408 Pepper Avenue				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94306	**Country**i	US		

Applicant 4 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118			
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**	
	John		Russell		
Residence Information (Select One) ◉ US Residency	○ Non US Residency	○ Active US Military Service			
City	Palo Alto	**State/Province**	CA	**Country of Residence** i	US
Citizenship under 37 CFR 1.41(b) i	US				
Mailing Address of Applicant:					
Address 1	605 Colorado Avenue				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94306	**Country**i	US		

Applicant 5 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118			
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**	
	Jake		Wobbrock		
Residence Information (Select One) ◉ US Residency	○ Non US Residency	○ Active US Military Service			
City	Palo Alto	**State/Province**	CA	**Country of Residence** i	US
Citizenship under 37 CFR 1.41(b) i	US				
Mailing Address of Applicant:					
Address 1	1091 Tanland Drive #201				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94303	**Country**i	US		

Applicant 6 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118			
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**	
	Geoffrey		Kembel		
Residence Information (Select One) ◉ US Residency	○ Non US Residency	○ Active US Military Service			
City	Menlo Park	**State/Province**	CA	**Country of Residence** i	US
Citizenship under 37 CFR 1.41(b) i	US				

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

Mailing Address of Applicant:					
Address 1	1045 Santa Cruz Avenue, Apartment F				
Address 2					
City	Menlo Park	**State/Province**	CA		
Postal Code	94025	**Country**[i]	US		

Applicant 7 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Jeremy		Kembel	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Palo Alto	**State/Province**	CA	**Country of Residence** [i]	US

Citizenship under 37 CFR 1.41(b) [i] US

Mailing Address of Applicant:					
Address 1	213 Fulton Street				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94301	**Country**[i]	US		

Applicant 8 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Joseph		Bella	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	San Francisco	**State/Province**	CA	**Country of Residence** [i]	US

Citizenship under 37 CFR 1.41(b) [i] US

Mailing Address of Applicant:					
Address 1	1 Conrad Street				
Address 2					
City	San Francisco	**State/Province**	CA		
Postal Code	94131	**Country**[i]	US		

Applicant 9 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Sridhar		Devulkar	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Mountain View	**State/Province**	CA	**Country of Residence** [i]	US

Citizenship under 37 CFR 1.41(b) [i] IN

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

Mailing Address of Applicant:					
Address 1	405 Stierlin Road				
Address 2					
City	Mountain View	State/Province	CA		
Postal Code	94043	Country[i]	US		

Applicant 10 — Remove

Applicant Authority	◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mark		Wallin	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Mountain View	State/Province	CA	Country of Residence [i]	US

Citizenship under 37 CFR 1.41(b) [i]	US

Mailing Address of Applicant:					
Address 1	814 East Dana				
Address 2					
City	Mountain View	State/Province	CA		
Postal Code	94030	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).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	43785		
Email Address	admin@jasipc.com	Add Email	Remove Email

Application Information:

Title of the Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages		
Attorney Docket Number	IMS 07-05-07	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		Sub Class (if any)	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	14	Suggested Figure for Publication (if any)	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

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).
Enter either 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	43785		

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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	09558922	2000-04-26

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 benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

Remove

Application Number	Country [i]	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			◉ Yes ○ No

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button. Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1 Remove

PTO/SB/14 (07-07)
Approved for use through 06/30/2010. 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	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

If the Assignee is an Organization check here. ☒			
Organization Name	Mainstream Scientific, LLC		
Mailing Address Information:			
Address 1	650 Castro Street, Suite 120-333		
Address 2			
City	Mountain View	**State/Province**	CA
Country [i]	US	Postal Code	94041
Phone Number	650-969-8300	Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the **Add** button.		Add	

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Jonathan A. Small/			Date (YYYY-MM-DD)	2008-01-16
First Name	Jonathan	Last Name	Small	Registration Number	32631

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:	2726536
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	16-JAN-2008
Filing Date:	31-OCT-2007
Time Stamp:	16:56:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant Response to Pre-Exam Formalities Notice	NewDots_msg_parts_trans_07.pdf	55950 6709dbda416409ce34b939d895ce1279bd7f3f96	no	2
Warnings:					
Information:					

2	Oath or Declaration filed	922_decl.pdf	195311 08cad09ae86686d3b586e22901a5675ee9be20ab	no	6
Warnings:					
Information:					
3	Application Data Sheet	IMS_07_05_07_ADS_rev1.pdf	1566866 1309d0a7e2ab355e0b083b8d34a151e9cbdc31a0	no	7
Warnings:					
Information:					
		Total Files Size (in bytes):	1818127		

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.

Electronic Acknowledgement Receipt

EFS ID:	2728359
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	16-JAN-2008
Filing Date:	31-OCT-2007
Time Stamp:	21:51:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	IMS_07_05_07_POA.pdf	295762 4ca40443d2ec34385f020c59f0106f02bd8001e0	no	9
Warnings:					
Information:					

Total Files Size (in bytes):	295762

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.

PATENT APPLICATION
Attorney Docket No. **IMS 07-05-07**

CERTIFICATE OF ELECTRONIC FILING SYSTEM TRANSMISSION
AS REQUIRED BY 37 C.F.R 1.8(a)(1)(ii)

I hereby certify that this correspondence is being submitted using the U.S. Patent Office electronic filing system, EFS-Web, pursuant to 37 C.F.R. 1.6(a)(4) on **January 16, 2008**.

Electronic Signature: /Jonathan A. Small/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): John Albert Kembel	)	Confirm. No. : 2646
	)	
Appl. No. : 11/932,585	)	TC/A.U. : Not yet assigned
	)	
Filed: 10/31/2007	)	Examiner: Not yet assigned

Title: System And Methods For Creating And Authoring Internet Content Using Application Media Packages

Filed via EFS-Web
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Letter Correcting Typographical Error on Statement Under 37 CFR 3.73(b) filed with new Power of Attorney by Assignee

Sir:

Following filing the Power of Attorney and supporting Statement Under 37 CFR 3.73(b), the undersigned discovered that on the Statement Under 37 CRF 3.73(b), in item 4 of the chain of title of the present application, the transfer was erroneously listed as being from Innovation Management Sciences to Innovation Management Sciences. This transfer was intended to read from Innovation Management Sciences to Mainstream Scientific, LLC, as demonstrated by the actual assignment document found at pages 7 and 8 of the document as filed. This error was accidental, and without deceptive intent. The undersigned asserts that the actual assignment filed with the Power of Attorney and Statement Under 37 CRF 3.73(b) is sufficient to meet the requirements of demonstrating proper chain of title, and that no new Statement under 37 CFR 3.73(b) is required. If, however, the Patent Office requests that applicant submit a corrected Statement under 37 CFR 3.73(b), applicant will provide same.

If the Office believes that a telephone conference would expedite processing and prosecution of this application, please telephone the undersigned at 650-941-4470.

Respectfully submitted,

/Jonathan A. Small/

Electronic signature
Jonathan A. Small
Attorney for Applicant
Registration No. 32,631

343 Second St., Suite F
Los Altos, CA 94022

Date: January 16, 2008

Telephone: 650-941-4470

Electronic Acknowledgement Receipt

EFS ID:	2728434
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	16-JAN-2008
Filing Date:	31-OCT-2007
Time Stamp:	22:52:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter	IMS_07_05_07_correction_ltr.pdf	55213 6dd01f0d9eacdb9f8ad7d3dd129bc580228adea4	no	1
Warnings:					
Information:					

Total Files Size (in bytes):	55213

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.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO
New Patent Application – By Assignee

For application titled: System And Methods For Creating And Authoring Internet Content Using Application Media Packages

Applicant: John Albert Kembel et al.	Confirmation No.: 2646
Serial Number: 11/932,585	Filing Date: 10/31/2007
	Attorney docket number: IMS 07-05-07

I hereby appoint:

☒ **Practitioners associated with the Customer number** **43785**

OR

☐ Practitioner(s) named below:

Name	Reg. No.		Name	Reg. No.

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. I hereby revoke all previous powers of attorney given in this application

All correspondence for the application identified should be addressed to:

☒ **The address associated with Customer Number:** **43785**

OR

☐ Firm Name			
Street Address:			
City:	State:	Zip Code:	
Country:			
Telephone:	Email:		

I am the	☐ Applicant/Inventor	☒ Assignee of Record
Signature	Rakesh Ramde	Jan. 16, 2008
Name	Rakesh Ramde	Date

I am the	☐ Applicant/Inventor	☐ Assignee of Record
Signature		
Name		Date

I am the	☐ Applicant/Inventor	☐ Assignee of Record
Signature		
Name		Date

☒ Total of 9 pages comprise this Power of Attorney

PTO/SB/96 (12-05) Approved for use through 07/31/2006. 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(b)

Applicant/Patent Owner: Mainstream Scientific, LLC

Application No./Patent No./Control No.: 11/932,585 Filed/Issue Date: 10/31/2007

Entitled: System And Methods For Creating And Authoring Internet Content Using Application Media Packages

Mainstream Scientific, LLC, a Limited Liability Company
(Name of Assignee) (Type of Assignee: corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest (The extent (by percentage) of its ownership interest is %) in the patent application/patent identified above

by virtue of either:

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 , Frame , or a true copy of the original assignment is attached.

OR

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

1. From: Kembel et al. To: DoDots, Inc.
   The document was recorded in the United States Patent and Trademark Office at Reel 11182, Frame 0992, or for which a copy thereof is attached.
2. From: DoDots, Inc. To: Sherwood Partners, Inc.
   A copy of the document being attached.
3. From: Sherwood Partners, Inc. To: Innovation Management Sciences
   A copy of the document being attached.
4. From: Innovation Management Sciences To: Innovation Management Sciences
   A copy of the document being attached.

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

As required by 37 CFR 3.73(b)(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.

Signature	Rakesh Ramde		
Name	Rakesh Ramde		
Date	Jan. 16, 2008	Telephone	650-969-8300

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.

Best Available Copy

GENERAL ASSIGNMENT

This Assignment is made this 16th day of January 2001, by DoDots, Inc., located at, 501 Ellis Street, Mountain View, California 94043, hereinafter referred to as Assignor, to Sherwood Partners, Inc., a California corporation, California, hereinafter referred to as Assignee.

WITNESSETH: That Assignor, for and in consideration of the covenants and agreements to be performed by Assignee, as hereinafter contained, and for good and valuable consideration, receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, assign, convey and transfer unto Assignee, its successors and assigns, in trust, for the benefit of Assignor's creditors generally, all of the property of Assignor of every kind and nature and wheresoever situated, both real and personal, and any interest or equity therein not exempt from execution, including, but not limited to, all that certain stock of merchandise, furniture and fixtures, accounts, books, cash on hand, cash in bank, deposits, patents, copyrights, trademarks and trade names, insurance policies, choses in action that are legally assignable, together with the proceeds of any existing non-assignable choses in action that may hereafter be recovered or received by Assignor. Assignor agrees to execute such additional documents as shall be necessary to accomplish the purposes of this Assignment.

This Assignment specifically includes and covers all claims for refund or abatement of all excess taxes heretofore or hereafter assessed against or collected from Assignor by the U.S. Treasury Department or any other taxing agency, and Assignor agrees to sign and execute power of attorney or such other documents as required to enable Assignee to file and prosecute, compromise and/or settle, all such claims before the Internal Revenue Service, U.S. Treasury Department or any other taxing agency.

Assignee is to receive said property, conduct said business, should it deem it proper, and is hereby authorized at any time after the signing hereof by Assignor to sell and dispose of said property upon such time and terms as it may see fit, and is to pay to creditors of Assignor pro rata, the net proceeds arising from the conducting of said business and sale and disposal of said property, after deducting all moneys which Assignee may at its option pay for the discharge of any lien on any of said property and any indebtedness which under the law is entitled to priority of payment, and all expenses, including a reasonable fee to Assignee and its attorney and to the attorney,if any, for Assignor.

If any dividends to creditors shall remain unclaimed for a period of one year after issuance of the final dividend checks, then the same shall become the property of Assignee and used to supplement its fees for services rendered in administering this Assignment. Any interest that may be earned on funds administered under this Assignment shall belong to and are hereby assigned to Assignee as additional fees for its services hereunder.

Best Available Copy

Assignee is also authorized and empowered to appoint such agents, field representatives and/or attorneys and/or accountants as it may deem necessary, and such agents and/or field representatives shall have full power and authority to open bank accounts in the name of Assignee or its nominees or agents and to deposit assigned assets or the proceeds thereof in such bank accounts and to draw checks thereon and with the further power and authority to do such other acts and to execute such papers and documents in connection with this Assignment as Assignee may consider necessary or advisable.

Assignor authorizes the forwarding of its mail by the U.S. Postal Department as directed by Assignee.

IN WITNESS WHEREOF the parties hereunder set their hands the day and year first above written.

TAX I.D. NUMBERS:

#_____

#_____

Assignor:

DoDots, Inc.

By:_____
Its: CEO

Assignee:

Sherwood Partners, Inc.

By:_____
Its: Secretary

EXHIBIT D

Assignment of Patent Rights

For good and valuable consideration, the receipt of which is hereby acknowledged, Sherwood Partners,, Inc., a California corporation, having offices at 101 University Avenue, Suite 100, Palo Alto, CA 94301 ("Assignor"), in its sole and limited capacity as Assignee for the Benefit of Creditors of DoDots, Inc., does hereby sell, assign, transfer and convey unto Innovation Management Sciences, a partnership organized under the laws of California, having an office at 970 Terra Bella Avenue, Suite 8, Mountain View, California 94043 ("Assignee") or its designees, all of Assignor's right, title and interest in and to the patent applications and patents listed below, any patents issuing on any patent applications listed below, the inventions disclosed in any of the foregoing, any and all counterpart United States, international and foreign patents, applications and certificates of invention based upon or covering any portion of the foregoing and all reissues, divisionals, renewals, extensions, provisionals, continuations and continuations-in-part of any of the foregoing (collectively "Patent Rights"):

Serial / Patent No.	Filing Date	Country
60/131,083	26 April 1999	US
60/131,114	26 April 1999	US
60/131,115	26 April 1999	US
60/176,687	18 January 2000	US
60/176,699	18 January 2000	US
09/558,922	26 April 2000	US
09/558,923	26 April 2000	US
09/558,924	26 April 2000	US
09/558,925	26 April 2000	US
PCT/US00/11507	26 April 2000	PCT
60/177,860	24 January 2000	US
60/193,872	31 March 2000	US
60/230,540	5 September 2000	US
09/703,499	31 October 2000	US
60/252,029	17 November 2000	US

Assignor represents, warrants and covenants that: (i) it is the sole owner, assignee and holder of record title to the Patent Rights identified above, (ii) it has obtained and properly recorded previously executed assignments for all patent applications and patents identified above as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction, and (iii) it has full power and authority to make the present assignment. Assignor shall indemnify and hold harmless Assignee for any breach of the foregoing.

Assignor further agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights: (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to

pursue damages, injunctive relief and other remedies for past and future infringement of the Patent Rights, and (ii) to apply in any or all countries of the world for patents, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding. Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

Assignor will, at the reasonable request of Assignee and without demanding any further consideration therefor, do all things necessary, proper, or advisable, including without limitation the execution, acknowledgment and recordation of specific assignments, oaths, declarations and other documents on a country-by-country basis, to assist Assignee in obtaining, perfecting, sustaining, and/or enforcing the Patent Rights. Such assistance shall include providing, and obtaining from the respective inventors, prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, powers of attorney, specifications, declarations or other papers and other assistance reasonably necessary for filing patent applications, complying with any duty of disclosure, and conducting prosecution, reexamination, reissue, interference or other priority proceedings, opposition proceedings, cancellation proceedings, public use proceedings, infringement or other court actions and the like with respect to the Patent Rights.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at _____ _____, on _____.

ASSIGNOR

By: _____

Name: _____

Title: _____

(Signature MUST be notarized)

State of CALIFORNIA)
) SS.:
County of SANTA CLARA)

On FEB 8, 2004, before me, HERBERT L. HAMERSLOUGH, Notary Public, personally appeared MICHAEL MAIDY, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to within the instrument and acknowledged to me that he/she executed the same in his authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

_____

HERBERT L. HAMERSLOUGH
Commission # 1462036
Notary Public - California
Santa Clara County
My Comm. Expires Feb 9, 2008

[DSK\AGT\482695.1 7/8/04 (2:15 PM)]

Assignment of Patent Rights

For good and valuable consideration, the receipt of which is hereby acknowledged, Innovation Management Sciences, a partnership organized under the laws of California, having an office at 970 Terra Bella Avenue, Suite 8, Mountain View, California 94043 ("Assignor") does hereby sell, assign, transfer and convey unto Mainstream Scientific, LLC, a California limited liability company having an office at 650 Castro Street, Suite 120-333, Mountain View, CA 94041 ("Assignee") or its designees, all of Assignor's right, title and interest in and to the patent applications and patents listed below, any patents issuing on any patent applications listed below, the inventions disclosed in any of the foregoing, any and all counterpart United States, international and foreign patents, applications and certificates of invention based upon or covering any portion of the foregoing and all reissues, divisionals, renewals, extensions, provisionals, continuations and continuations-in-part of any of the foregoing (collectively "Patent Rights"):

Serial / Patent No.	Filing Date	Country
60/131,083	**26 April 1999**	**US**
60/131,114	**26 April 1999**	**US**
60/131,115	**26 April 1999**	**US**
60/176,687	**18 January 2000**	**US**
60/176,699	**18 January 2000**	**US**
09/558,922	**26 April 2000**	**US**
09/558,923	**26 April 2000**	**US**
09/558,924	**26 April 2000**	**US**
09/558,925	**26 April 2000**	**US**
PCT/US00/11507	**26 April 2000**	**PCT**
60/177,860	**24 January 2000**	**US**
60/193,872	**31 March 2000**	**US**
60/230,540	**5 September 2000**	**US**
09/703,499	**31 October 2000**	**US**
60/252,029	**17 November 2000**	**US**

Assignor represents, warrants and covenants that: (i) it is the sole owner, assignee and holder of record title to the Patent Rights identified above, (ii) it has obtained and properly recorded previously executed assignments for all patent applications and patents identified above as necessary to fully perfect its rights and title therein in accordance with governing law and regulations in each respective jurisdiction, and (iii) it has full power and authority to make the present assignment. Assignor shall indemnify and hold harmless Assignee for any breach of the foregoing.

Assignor further agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights; (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past and future infringement of the Patent Rights, and (ii) to apply in any or all countries of the world for patents, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment shall inure to the benefit of Assignee, its successors, assigns and other legal representatives, and shall be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Mountain View, CA on November 16, 2005.

ASSIGNOR

By: Rakesh Ramde

Name: Rakesh Ramde

Title: Officer

(Signature MUST be notarized)

State of California)
) SS.:
County of Santa Clara)

On Nov-16th, 2005, before me, Rajendra K Dhawan, Notary Public, personally appeared Rakesh Ramde, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

RAJENDRA K. DHAWAN
Comm. # 1341691
NOTARY PUBLIC - CALIFORNIA
Santa Clara County
My Comm. Expires Jan. 25, 2008

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Electronic Patent Application Fee Transmittal

Application Number:	11932585
Filing Date:	31-Oct-2007
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Filer:	Jonathan Andrew Small
Attorney Docket Number:	IMS 07-05-07
Filed as Small Entity	

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	75	75
Utility Search Fee	2111	1	255	255
Utility Examination Fee	2311	1	105	105
Pages:				
Utility Appl Size fee per 50 sheets >100	2081	1	130	130
Claims:				
Miscellaneous-Filing:				
Late filing fee for oath or declaration	2051	1	65	65

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**630**

Electronic Acknowledgement Receipt

EFS ID:	2720861
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	15-JAN-2008
Filing Date:	31-OCT-2007
Time Stamp:	18:04:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$630
RAM confirmation Number	2667
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)

1	Fee Worksheet (PTO-06)	fee-info.pdf	8629 c2d85ff1f23f21d77e73147b8bb4d0ee44fed014	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	8629	

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New Applications Under 35 U.S.C. 111
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New International Application Filed with the USPTO as a Receiving Office
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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
11/932,585	10/31/2007	John Albert Kembel	IMS 07-05-07

CONFIRMATION NO. 2646

43785
JONATHAN A. SMALL
JAS IP CONSULTING
343 SECOND STREET
SUITE F
LOS ALTOS, CA 94022

FORMALITIES LETTER

OC000000026857233

Date Mailed: 11/29/2007

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
  *Applicant must submit $**75** to complete the basic filing fee for a small entity.*
- The oath or declaration is missing.
  A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
  Note: If a petition under 37 CFR 1.47 is being filed, an oath or declaration in compliance with 37 CFR 1.63 signed by all available joint inventors, or if no inventor is available by a party with sufficient proprietary interest, is required.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
  - The drawings submitted to the Office are not electronically reproducible because portions of figures 1,9 are missing and/or blurry.
  - The drawings are not in compliance with 37 CFR 1.84 because figures 1 contain figure or view numbers that have incorrect orientation. Reference characters, sheet numbers, and view numbers must be oriented in the same direction as the view. See 37 CFR 1.84(p)(1).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of $**65** for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this notice.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is $**630** for a small entity
- $**75** Statutory basic filing fee.
- $**65** Surcharge.
- The application search fee has not been paid. Applicant must submit $**255** to complete the search fee.
- The application examination fee has not been paid. Applicant must submit $**105** to complete the examination fee for a small entity in compliance with 37 CFR 1.27.
- The specification and drawings submitted electronically contain the equivalent of more than 100 pages. Applicant owes $**130** for **21** pages in excess of **100** pages for a small entity in compliance with 37 CFR 1.27.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/dalyon/

Office of Initial Patent Examination (571) 272-4000 or 1-800-PTO-9199

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
11/932,585	10/31/2007		0.00	IMS 07-05-07	3	1

CONFIRMATION NO. 2646

43785
JONATHAN A. SMALL
JAS IP CONSULTING
343 SECOND STREET
SUITE F
LOS ALTOS, CA 94022

FILING RECEIPT



Date Mailed: 11/29/2007

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 write to the Office of Initial Patent Examination's Filing Receipt Corrections. 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**

Applicant(s)

John Albert Kembel, Palo Alto, CA;
George Andrew Kembel, Menlo Park, CA;
Daniel Kim, Palo Alto, CA;
John Russell, Palo Alto, CA;
Jake Wobbrock, Palo Alto, CA;
Geoffrey Kembel, Menlo Park, CA;
Jeremy Kembel, Palo Alto, CA;
Lynn Gabbay, Sunnyvale, CA;

Assignment For Published Patent Application

Mainstream Scientific , LLC, Mountain View, CA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 09/558,922 04/26/2000
which claims benefit of 60/131,083 04/26/1999
and claims benefit of 60/131,114 04/26/1999
and claims benefit of 60/131,115 04/26/1999
and claims benefit of 60/176,687 01/18/2000
and claims benefit of 60/176,699 01/18/2000

Foreign Applications

If Required, Foreign Filing License Granted: 11/21/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/932,585**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No
**** SMALL ENTITY ****
Title

System and Methods for Creating and Authoring Internet Content Using Application Media Packages

Preliminary Class

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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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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

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.)

Applicant Information:

Applicant 1 Remove

Applicant Authority	◉ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	John	Albert	Kembel	

Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

City	Palo Alto	State/Province	CA	Country of Residence [i]	US

Citizenship under 37 CFR 1.41(b) [i] US

Mailing Address of Applicant:

Address 1	2334 Williams Street		
Address 2			
City	Palo Alto	State/Province	CA
Postal Code	94306	Country [i]	US

Applicant 2 Remove

Applicant Authority	◯ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	George	Andrew	Kembel	

Residence Information (Select One) ◯ US Residency ◯ Non US Residency ◯ Active US Military Service

City	Menlo Park	State/Province	CA	Country of Residence [i]	US

Citizenship under 37 CFR 1.41(b) [i] US

Mailing Address of Applicant:

Address 1	1045 Santa Cruz Avenue, Apartment F		
Address 2			
City	Menlo Park	State/Province	CA
Postal Code	94025	Country [i]	US

Applicant 3 Remove

Applicant Authority	◯ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118

Prefix	Given Name	Middle Name	Family Name	Suffix
	Daniel		Kim	

Residence Information (Select One) ◯ US Residency ◯ Non US Residency ◯ Active US Military Service

City	Palo Alto	State/Province	CA	Country of Residence [i]	US

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

Citizenship under 37 CFR 1.41(b) i	US				
Mailing Address of Applicant:					
Address 1	408 Pepper Avenue				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94306	**Country**i	US		
Applicant 4				Remove	
Applicant Authority ◉ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118			
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**	
	John		Russell		
Residence Information (Select One) ◉ US Residency	◯ Non US Residency	◯ Active US Military Service			
City	Palo Alto	**State/Province**	CA	**Country of Residence** i	US
Citizenship under 37 CFR 1.41(b) i	US				
Mailing Address of Applicant:					
Address 1	605 Colorado Avenue				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94306	**Country**i	US		
Applicant 5				Remove	
Applicant Authority ◉ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118			
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**	
	Jake		Wobbrock		
Residence Information (Select One) ◉ US Residency	◯ Non US Residency	◯ Active US Military Service			
City	Palo Alto	**State/Province**	CA	**Country of Residence** i	US
Citizenship under 37 CFR 1.41(b) i	US				
Mailing Address of Applicant:					
Address 1	1091 Tanland Drive #201				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94303	**Country**i	US		
Applicant 6				Remove	
Applicant Authority ◉ Inventor	◯ Legal Representative under 35 U.S.C. 117	◯ Party of Interest under 35 U.S.C. 118			
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**	
	Geoffrey		Kembel		
Residence Information (Select One) ◉ US Residency	◯ Non US Residency	◯ Active US Military Service			
City	Menlo Park	**State/Province**	CA	**Country of Residence** i	US
Citizenship under 37 CFR 1.41(b) i	US				

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

Mailing Address of Applicant:					
Address 1	1045 Santa Cruz Avenue, Apartment F				
Address 2					
City	Menlo Park	**State/Province**	CA		
Postal Code	94025	**Country**[i]	US		

Applicant 7 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Jeremy		Kembel	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Palo Alto	**State/Province**	CA	**Country of Residence** [i]	US

Citizenship under 37 CFR 1.41(b) [i] US

Mailing Address of Applicant:					
Address 1	213 Fulton Street				
Address 2					
City	Palo Alto	**State/Province**	CA		
Postal Code	94301	**Country**[i]	US		

Applicant 8 Remove

Applicant Authority ◉ Inventor	○ Legal Representative under 35 U.S.C. 117	○ Party of Interest under 35 U.S.C. 118

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Lynn		Gabbay	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Sunnyvale	**State/Province**	CA	**Country of Residence** [i]	US

Citizenship under 37 CFR 1.41(b) [i] US

Mailing Address of Applicant:					
Address 1	1249 Lakeside Drive #1064				
Address 2					
City	Sunnyvale	**State/Province**	CA		
Postal Code	94085	**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).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	43785		
Email Address	admin@jasipc.com	Add Email	Remove Email

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

Application Information:

Title of the Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages		
Attorney Docket Number	IMS 07-05-07	**Small Entity Status Claimed** ☒	
Application Type	Nonprovisional		
Subject Matter	Utility		
Suggested Class (if any)		**Sub Class (if any)**	
Suggested Technology Center (if any)			
Total Number of Drawing Sheets (if any)	14	**Suggested Figure for Publication (if any)**	

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.

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Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	43785		

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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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Prior Application Status			Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	09558922	2000-04-26

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button. Add

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This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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(a).

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	IMS 07-05-07
	Application Number	
Title of Invention	System and Methods for Creating and Authoring Internet Content Using Application Media Packages	

			Remove
Application Number	Country [i]	Parent Filing Date (YYYY-MM-DD)	Priority Claimed
			◉ Yes ○ No
Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.			Add

Assignee Information:

Providing this information in the application data sheet does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded in the Office.

Assignee 1 Remove

If the Assignee is an Organization check here. ☒			
Organization Name	Mainstream Scientific, LLC		
Mailing Address Information:			
Address 1	650 Castro Street, Suite 120-333		
Address 2			
City	Mountain View	**State/Province**	CA
Country [i] US		Postal Code	94041
Phone Number	650-969-8300	Fax Number	
Email Address			
Additional Assignee Data may be generated within this form by selecting the **Add** button.			Add

Signature:

A signature of the applicant or representative is required in accordance with 37 CFR 1.33 and 10.18. Please see 37 CFR 1.4(d) for the form of the signature.

Signature	/Jonathan A. Small/			Date (YYYY-MM-DD)	2007-11-09
First Name	Jonathan	Last Name	Small	Registration Number	32631

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.**

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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.

Electronic Acknowledgement Receipt

EFS ID:	2452433
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	10-NOV-2007
Filing Date:	
Time Stamp:	02:18:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	IMS_07_05_07_ADS.pdf	1448785 33cdddd2db31296330e2e4c2118421b7b99495bc	no	6
Warnings:					

Information:	
Total Files Size (in bytes):	1448785

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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.

SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application is a continuation of and incorporates by reference U.S. Non-Provisional Patent Application ser. no. 09/558,922, filed April 26, 2000, which claims priority from and incorporates by reference U.S. Provisional Application ser. nos. 60/131,083, filed April 26, 1999, 60/131,114, filed April 26, 1999, 60/131,115, filed April 26, 1999, 60/176,687, filed January 18, 2000, and 60/176,699, filed January 18, 2000. The present application claims priority to U.S. Non-Provisional Patent Application ser. no. 09/558,925, filed April 26, 2000 and each of the aforementioned applications to which it claims priority.

[0002] The present application is also related to and incorporates by reference the following U.S. Patent Applications: Non-Provisional Application ser. no. 09/558,923, filed April 26, 2000; Non-Provisional Application ser. no. 09/558,924, filed April 26, 2000; Non-Provisional Application ser. no. 09/558,925, filed April 26, 2000; Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled “Component For Accessing And Displaying Internet Content” (attorney docket no. IMS 07-05-01); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled “Server Including Components For Accessing And Displaying Internet Content And For Providing Same To A Client” (attorney docket no. IMS 07-05-02); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled “Method For Accessing And Displaying Internet

Content" (attorney docket no. IMS 07-05-03); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled "Component For Coordinating The Accessing And Rendering Of An Application Media Package" (attorney docket no. IMS 07-05-04); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled "Tracking and Tracing User Activity with Application Media Packages" (attorney docket no. IMS 07-05-05); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled "Displaying Time-varying Internet based Data using Media Application Packages" (attorney docket no. IMS 07-05-06); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled "Methods of Obtaining Application Media Packages" (attorney docket no. IMS 07-05-08); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled "Indexing, Sorting, and Categorizing Dots" (attorney docket no. IMS 07-05-09); Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled "System and Methods of Messaging between Application Media Packages" (attorney docket no. IMS 07-05-10); and, Non-Provisional Application ser. no. xx/xxx,xxx, filed October 31, 2007, titled "Component For Accessing And Displaying Internet Content In Association With a Web Browser Application" (attorney docket no. IMS 07-05-11).

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BACKGROUND OF THE INVENTION

1. Field of the Invention.

[0004] The present invention is related to accessing and viewing Internet content, and more specifically to a method and apparatus for providing a unique frame, independent of a Web Browser application and window, for the retrieval and display of such content.

2. Description of the Prior Art.

[0005] A user operating a client computer typically accesses the Internet by using a viewer application, such as a browser to view Internet content provided at a destination address, typically a web page. In this context, Internet content and web applications are designed to fill the entire web page. It is known to divide the Internet content into different regions of a single web page. For example, personalized web pages can be specified, such that a user views a variety of content sources in a single page, such as stock information, weather information, and sports information, which is aggregated at the server that delivers the web page to the user, who then views the aggregated content in a single web page. Observe that even when disparate content is aggregated, in this manner, it is reassembled into a full web page and is served through a full-screen browser.

[0006] Users and application developers therefore have limited control over the presentation of internet content: content is typically trapped within the frame of the browser. A developer's only alternative to engaging a user page-by-page in a browser is to develop, distribute, and support custom client software. In the Web browser scenario, it is the content provider, not the user that aggregates the information that is viewed by the user. Thus, the user is not in a position to separately aggregate the content at a client computer, instead the user is constrained to view the content that has been delivered in the manner provided by the server computer hosting the web page. There is a growing desire for individual users to fully control the aggregation and presentation of content and web applications that appears on a client computer.

[0007] A user who wishes to view multiple web pages or applications can open multiple instances of a browser. However, the user will not be able to view each "full-screen" page at the same time. Instead, the user must adjust the windows corresponding to each browser instance and view only part of each page. The information appearing in each browser is not designed for viewing in this manner. Thus, the user cannot create an optimized display of content from multiple sources.

[0008] Currently, content providers and end users have limited tools to alter the browser in which content appears. That is, the controls associated with a browser are not fully configurable. Thus, the vendor of a browser is in a position to brand the browser and regulate the controls associated with the browser. There is a growing desire for content providers to not only fill a browser with their content, but to also fully brand and control the frame in which the content appears. Further, in some instances, content providers desire to limit the controls associated with a browser or viewer, so that a user

is more inclined to view a single set of content, for example, by having limited access to previously viewed content. However, the current browser applications provide very limited control to a user or content provide to alter the frame and controls provided by the browser window.

[0009] In summary, therefore, the current model of the Internet has the following attributes and limitations:

a) Internet content is typically viewed one page at a time, with each page displayed serially displayed in a browser application window which typically takes up the majority of the user's computer screen real estate.

b) Internet content is designed for delivery in web pages. Even if content is modularized, it is reassembled into a full web page and viewed serially in the window of browser application taking up a significant portion of the user's desktop.

c) There is a distinction both visually and architecturally between the "viewer application" (browser) and the "content/document" (web page) such that a browser window is not tailored to the content being displayed, but rather is capable of displaying any web content.

d) Internet content is effectively limited and trapped within the "frame" of the browser (viewer application). Therefore, content developers, users and web-application developers are limited in how the user experience is controlled.

e) Although internet programming technologies (such as java script, CSS, layers, flash, etc.) are giving web pages more functionality, the pages have limited access to application functionality such as access and control of the window and frame, the size of the frame, branding, application behavior such as size and menu items, etc.

f) "Web-applications" such as web-mail and web calendars are being packaged and viewed through the page-by-page web model. Even though web-applications are being implemented by many online companies, the web is currently a destination page-based model where, for example, a user visits one page, then goes to another page and so on. It is therefore a sequential, linear experience, e.g., one full page at a time.

[0010] In view of the foregoing, there is a need in the art to provide a technique for accessing multiple instances of distributable computer readable web content in which these instances are typically smaller than the full pages used in current web pages and web applications, and which may be displayed in user- or content provider-controlled frames. Preferably, such techniques allow such access to be done simultaneously. There is a further need for providing the user with flexibility in selecting, collecting, relating and viewing such web content and for giving the content provider flexibility in directing media to a specific user and controlling the framework in which media, such as web content, is presented. Finally, there is a need to gather more accurate information regarding the type of content that a user enjoys, so that the user can be automatically provided with this content.

SUMMARY OF THE INVENTION

[0011] The present invention is directed to systems and methods by which internet content may be authored and distributed. The invention provides for a structure defined herein as an Application Media Package. Application Media Packages are web browser-readable code that is executed on a non-browser-based installed client application. The client application, referred to herein as an Application Media Viewer or Home Dot, executes independently from a web browser. The Application Media Viewer parses and executes the Application Media Package code to create the user experience. The terms Application Media Package and Dot are use synonymously herein.

[0012] In addition to the Home Dot, the Dot Server provides a central collection and distribution point for Dot related data. The Dot server is communicated to directly by the Home Dot application, by Dot users, and by third party Dot developers. Internet content that is referenced within a Dot may or may not reside on the Dot server. In general, it does not.

[0013] The Dot server supports the community of Dot developers, providing developer tools, including Dot template which provide an expedient method of re-purposing existing internet media into a new presentation package by choosing from existing examples.

[0014] The Dot server supports posting and categorization methods for Dot developers to place their Dots in a manner that is effective for Dot users, a manner that promotes Dot developers, a manner that generates revenue by preferential placement of Dots, etc. The Dot server supports developer accounts. These accounts may control

access to tools and information as well as provide a development and test zone for Dot verification, authentication and acceptance before posting.

[0015] According to the present invention, the Dot is supported by a flat file format that enables a simple file download process that is completed by the Home Dot. The flat file format may be zipped and may also include a method that protects the contents of the Dot from source level viewing. Decoding and parsing is executed by the Home Dot.

[0016] In one embodiment, the present invention provides for standard or base controls that are common to all Dots. These controls include size and placement for title bar, exit button, resize button, and menu button. In addition, standard images or content are provided as a default for each of these controls.

[0017] According to the present invention, each Dot developer is provided with a unique developer ID by which all of his Dots is identified. Dots may also have a unique Dot ID, a Dot kind (or type attribute), and category.

[0018] The above is a summary of a number of the unique aspects, features, and advantages of the present invention. However, this summary is not exhaustive. Thus, these and other aspects, features, and advantages of the present invention will become more apparent from the following detailed description and the appended drawings, when considered in light of the claims provided herein.

BRIEF DESCRIPTION OF THE DRAWINGS

[0019] In the drawings appended hereto like reference numerals denote like elements between the various drawings. While illustrative, the drawings are not drawn to scale. In the drawings:

[0020] Fig. 1 is an illustration of the overall architecture of a network in which the present invention may operate.

[0021] Fig. 2 is an illustration of the elements of an Application Media Package (Dot) according to one embodiment of the present invention.

[0022] Fig. 3 is an illustration of the elements of an Application Media Package (Dot) definition according to one embodiment of the present invention.

[0023] Fig. 4 is an illustration of an instantiation of a generic GUI according to one embodiment of the present invention.

[0024] Fig. 5 is an example of an instance of an Application Media Package (Dot) according to one embodiment of the present invention.

[0025] Fig. 6 is an illustration of the communication flow associated with the acquisition and instantiation of an Application Media Package (Dot) according to one embodiment of the present invention.

[0026] Fig. 7 is all illustration of the communication pathways associated with the building of a user profile, and the acquisition of Dots through links, packs, and sharelinks according to one embodiment of the present invention.

[0027] Fig. 8 is an illustration of the communication pathways associated with the acquisition and instantiation of an Application Media Package (Dot) according to one embodiment of the present invention.

[0028] Fig. 9 is an example of a display showing Application Media Packages (Dot) available for downloading as well as Application Media Packages (Dots) already downloaded according to one embodiment of the present invention.

[0029] Fig. 10 is an illustration of the communication pathways associated with the instantiation of an already-acquired Application Media Package (Dot) according to one embodiment of the present invention.

[0030] Fig. 11 is a flow chart illustrating the download process of an Application Media Package (Dot) and Application Media Viewer (Home Dot) according to an embodiment of the present invention.

[0031] Figs 12A, 12B, and 12C are illustrations of Application Media Packages arranged in groups, and arranged in vertical and horizontal Blocks (position-justified groups), respectively, according to an embodiment of the present invention.

[0032] Fig. 13 is an illustration of the client-server model of a system according to the present invention.

[0033] Fig. 14 is an illustration of the message routing paths and elements of a Dot Messaging Architecture according to the present invention.

DETAILED DESCRIPTION OF THE INVENTION

[0034] The present invention discloses a technology that is capable of processing distributable computer readable media. Distributable computer readable media includes, but is not limited to, standard Internet content, such as HTML, dHTML, images, imbedded ActiveX and Java applications, JavaScript, CSS, Perl scripts, Streaming Media, and/or Flash. The present invention is advantageous relative to prior art systems and methods because it provides improved mechanisms for simultaneously interacting with several independent sources of distributable computer readable media, collecting references to such media, and sharing such references with other users. The disclosed technology is further advantageous because it provides improved systems and methods for on screen management of distributable computer readable media.

[0035] Central to the present invention is the concept of an Application Media Package. As used herein, the term Application Media Package refers to a component which includes a fully configurable frame with one or more controls; the frame through which content is optionally presented. The fully configurable frame utilized in accordance with the invention stands in contrast to present web browsers, which are branded by the browser vendor and which have limited means by which to alter the controls associated with the browser.

ABSENCE OF WEB BROWSER

[0036] The Application Media Package is a file that is comprised of web browser readable language. According to the preferred embodiment, the present invention

renders, displays, and updates Internet data without the use of a browser. In fact, no browser need be installed on the client computer on which the Application Package is instantiated. The present invention produces a user experience by parsing and rendering the Application Media Package through the Application Media Viewer. The Application Media Viewer is an installed client application which renders the Application Media Package as well as provides additional functionality to the user experience (hence, it is more than simply a viewer application). The Application Media Viewer may render web browser readable content (of the type typically supported by a browser application) due to it being programmed utilizing the Microsoft IE4 object for receiving, parsing and rendering web content. It will be understood by one skilled in the art that, despite its name, the Microsoft IE4 object is not a web browser application. One apparent difference between the Application Media Viewer and a typical web browser application is that the Application Media Viewer of the present invention is not designed to provide user web navigation and page control typically provided by a web browser.

[0037] Fig. 1 is a general illustration of a system in accordance with one embodiment of the present invention. In Fig. 1, a network 10 is operated in accordance with the present invention. Network 10 includes at least one user or client computer 20, at least one server computer of class 50, and optionally one or more server computers of class 82. User computer 20 as well as server computers of class 50 and 82 are each connected by transmission channel 44, which is any wired or wireless transmission channel.

[0038] User computer 20 is any device that includes a Central Processing Unit (CPU) 24 connected to a random access memory 30, a network connection 28, and one

or more user input/output ("i/o") devices 40 including output means 42. Thus, the term “computer,” as used herein, is intended in its broadest sense to include not only traditional workstations, laptops and similar devices, but any device containing a CPU of sufficient operability to utilize Internet data, such as web-enable cell phones, personal digital assistants (PDAs), and so forth.

[0039] Output means 42 is any device capable of communicating with a user and includes, for example, a video monitor, a liquid crystal display, voice user interfaces, and/or integrated graphic means such as mini-displays present in web-enabled cell phones, PDAs, etc.

[0040] Typically, user computer 20 includes a main non-volatile storage unit 22, preferably a hard disk drive, for storing software and data. Further, user computer 20 includes one or more internal buses 26 for interconnecting the aforementioned elements. In a typical embodiment, memory 30 includes an operating system 32 for managing files and programs associated with user computer 20. In some embodiments, operating system 32 includes a registry 34 that has one or more references to specified locations in system 10.

[0041] The exemplary memory 30 of Fig. 1 further includes a web browser 36 for viewing Internet content and a separate collection of items, referred to herein as a client parser application 38. In some embodiments, client parser application 38 uses the one or more references in registry 34 to obtain a login construct from server 50. In various embodiments, in accordance with the present invention, client parser application 38 runs in conjunction with one or more software modules, such as an event log module 98, which tracks user activity, a message interface module 107, which serves as a

communication interface between the client parser application 38 and web server 58 and/or external web servers, an application media processing module 109, one or more Application Media Packages 104-1 to 104-n, and an Application Media Viewer 119 which, among other functions, regulates the characteristics of visual manifestations of Application Media Packages 104-1 to 104-n when displayed on output device 42.

[0042] Server computer 50 includes standard server components, including a network connection device 46, a CPU 52, a main non-volatile storage unit 54, and a random access memory 56. Further, server computer 50 includes one or more internal buses 48 for interconnecting the aforementioned elements. Memory 56 stores a set of computer programs, modules and data to implement the processing associated with the present invention.

[0043] The embodiment of memory 56 illustrated in Fig. 1 includes a web server 58 for processing requests received from client computer 20. Web server 58 has many components, including a variety of modules and data structures to assist users that want to log into system 10. Namely, login module 60 handles an entry request from a client computer 20 and accepts a login identifier that corresponds to a user from client computer 20.

[0044] Once a user has successfully logged into system 10, request server module 72 handles requests for specified Application Media Packages 104-1 to 104-n from client 20. When such a request is received, request server module 72 routes the request to an address that corresponds to the specified Application Media Packages 104-1 to 104-n and transmits the specified Application Media Packages 104-1 to 104-n to client 20. One class of specified networked information handled by request server

module 72 is requests for Application Media Packages 104-1 to 104-n. When such a request is received, request server module 72 searches Application Media Packages database 74 for the specified Application Media Package. Application Media Package templates database 74 includes a large number of Application Media Package templates. Each Application Media Package template defines the characteristics of a specific Application Media Package, including fully configurable frame characteristics, viewer and control characteristics, and Application Media Package content references.

[0045] The web server 58 illustrated in Fig. 1 further includes additional modules 131 to handle specialized features of the present invention. For example, one embodiment of the present invention provides a mechanism that allows users to distribute Application Media Packages to each other. In such embodiments, a special server module 131 provides instructions for storing the Application Media Packages, which are to be distributed, using a sharelink database 78. Advantageously, Application Media Packages that are distributed to other users are customizable. A user can, for example, resize and position a particular Application Media Packages prior to sharing it with another user. Indeed, it is possible, in such embodiments, for a user to arrange a series of Application Media Packages in a unique arrangement and then distribute the collection of Application Media Packages in the designated arrangement. As an illustration, a user arranges a first Application Media Package that represents a scrolling stock ticker at the bottom of an output means, such as a computer screen, a second Application Media Package that tracks the NASDAQ top ten most heavily traded stocks in the upper left corner of the output means, and a third Application Media Package that tracks headline news on the upper right hand corner of the output means. Then, the user distributes the three Application Media Packages in this customized arrangement to

other users. Observe that in this example a user of a client computer is aggregating separate sets of information in different Application Media Packages. This stands in contrast to prior art approaches where a web server running on a server computer aggregates information in a single page.

[0046] System 10 is highly scalable and thus supports a large number of users. This scalability stems from the fact that the server 50 is delivering the definition associated with an Application Media Package. The content displayed in the Application Media Package may be located on a separate computer. Memory 56 may provide a statistical analysis module 133 for tracking key events associated with users. This information is stored in statistics database 80. The information collected by statistical analysis module 133 is used for a wide variety of purposes, including server load optimization and directed advertising, as discussed below. As described below, the statistical information gathered in accordance with the invention includes fully traced events defining the type of content and the duration over which all content is viewed by a user. This type of comprehensive information is not available using present techniques. Much of the distributable computer readable media that is available for processing is stored as content elements 94 on server 82. Server 82 is a standard web server that includes components such as a network connection device 88, a CPU 86, a main non-volatile storage unit 84, a random access memory (RAM) 92, and one or more internal buses 90 for interconnecting the aforementioned elements. RAM 92 includes some of the content elements 94 stored by server 82. Other content elements 94 are stored in storage unit 84. In some embodiments, a single web server 58 is capable of directly accessing content elements 94 located on one or more servers 82. In other embodiments, each server 82 has a resident web server module that works in

conjunction with server 50 to identify, optionally dynamically generate, and serve content elements 94 upon demand.

[0047] With the general architecture of a system within which the present invention may operate provided with reference to Fig. 1, we next turn to a number of definitions of key terms used herein. Terms not specifically defined herein shall be understood to have their broadest, generally accepted meaning. Other terms may be defined elsewhere in the present disclosure. (See also Appendix A and B herein.)

[0048] Application Media Package - An Application Media Package, also referred to herein as a Dot, is computer software component, such as XML code and data, representing the definition of a client-side mini-application, which displays information and/or provides functionality to an end user. The Application Media Package combines the packaging, application behavior, and the presentation of Internet content with the content itself, creating one integrated unit – a Dot. Therefore, Dots are the integration of application and media. A Dot may be viewed as a free-floating mini-site. It is frame in which Internet content is presented (although lacking the most common functionality typically associated with a browser, navigation).

[0049] In one embodiment, Dots are programmed with browser readable language that is parsed to the Microsoft Internet Explorer (IE) rendering object (referenced within a control, so named the Dot Web Conduit) and are capable of displaying any Internet content supported by IE 4 (however, not necessarily requiring use of Internet Explorer or any browser for such display). This browser readable language defines the appearance of a Dot, its functionality, and what content is presents. This browser readable language includes XML, streaming media, dHTML, etc.

[0050] Structurally, the Dot or media application package comprises initialization data, control calls, and a frame. Content, such as that obtained from a network reference, is rendered within the frame. The control calls may include the web conduit, base controls such as “close” and resize”, base GUI elements such as a title bar, Dot menu, and Dot bottom bar, as well as XML Dot calls that are made by the Dot Definition and executed by the Home Dot. Unlike a downloadable, custom, client-application (e.g., for delivering custom web applications to users' desktops), an Application Media Package is entirely content. That is, the entirety of a Dot package, referred to as its definition, is in a browser-readable language.

[0051] All that is required to instantiate an Application Media Package (on the client computer) is its definition assuming that the client computer has an Application Media Viewer (discussed below) installed. That is, no browser is needed to render an Application Media Package. No browser need be running or be present on the client machine in order to render an Application Media Package.

[0052] Application Media Package Content - Application Media Package content, also referred to as Dot Content, is Internet content served off of partner/Dot Developer servers or another third party server. While in some cases a party developing and making a Dot available (from a partner/Dot Developer server) may also host (on the server) content for that Dot, the developer is free to cause the Dot to point to content from another party/site for rendering as part of an instantiated Dot. It is an attribute of the present invention that any internet content can be accessed, processed, and/or displayed as Dot Content or Application Media Package Content.

[0053] Application Media Viewer - The Application Media Viewer, also referred to herein as the Home Dot, is a network enabled, client application that loads and displays an Application Media Package on a client computer. Data contained within the Application Media Package is parsed by the Application Media Viewer and rendered within the extent of the Application Media Package's frame as defined therein. Data is web browser readable language including media and Internet references thereto, as well as control calls. These control calls contained within an Application Media Package are also parsed and executed. The Application Media Viewer is required to instantiate an Application Media Package (i.e., to create a Dot and provide any associated functionality on a client display device). The Application Media Viewer effectively takes the place of a browser application when rendering Internet content via an Application Media Package. However, an Application Media Package contains Internet data and as such, this data may also be referenced by a browser. In the preferred embodiment, a browser is not employed to instantiate an Application Media Package, nor to invoke any functionality they may provide. Also in the preferred embodiment, the Application Media Viewer is a compiled application, programmed using MFC (Microsoft Foundation Class) or the like. The Application Media Viewer need only be downloaded to the client computer one time and may be used to instantiate any number of Application Media Packages. More than one Application Media Package may be instantiated at a time, i.e. the Application Media Viewer is capable of executing and displaying multiple instantiated Application Media Packages. The Application Media Viewer is also capable of checking for updated versions of itself (and any Application Media Package) on the server. The Application Media Viewer supports a number of facilities including support for standard internet protocols (http, https, etc.) Additionally, the Application Media Viewer also supports

collecting and organizing Application Media Packages, user login, user activity statistics collecting and reporting, and messaging between Application Media Packages.

[0054] Block - A group of Dots. Blocks are created and destroyed by the user through the dragging and positioning of individual Dots or other blocks.

[0055] Computer - as used herein, the term computer is meant to refer to any device that includes a Central Processing Unit (CPU) connected to a random access memory, a network connection, connected and rendering to one or more output devices, which has sufficient operability to utilize Internet data, such as web-enable cell phones, personal digital assistants (PDAs), etc. Thus, the term is intended in its broadest sense to include not only traditional workstations, laptops and similar devices, but web-enabled cell phones, PDAs, etc.

[0056] Content Server - Also called a Partner Web Server, used to deliver Internet content to a Dot on a client machine.

[0057] Controls - A Dot comprises of at least one control, each of which is arranged within the frame according to the Dot Definition. In the preferred embodiment, this minimum control is the Web Conduit which is the Internet data rendering portion of the frame. Controls are calls that are contained within the Dot content that enable a Dot, for example with application behavior amongst other attributes and explained further herein. The Dot Definition may contain base control (close, resize) overrides such that the controls are not rendered or are rendered only upon mouse over events rather than persistent display. Additional media elements and network referenced media may also be contained within the Dot Definition.

[0058] DoDots - The working product name of the invention described herein.

[0059] Dot Class - An instance of a particular set of binaries to create a particular type of Dot.

[0060] Dot Definition - This software entity contains enough information to instantiate an Application Media Package (a Dot) and pointers to location of Application Media Package content (Dot content). A Dot is defined by its dimensions and a set of four attributes called Dot components, as will be later described. A Dot Definition also defines access to Dot Web Conduit, which is a control element of a Dot and is a fully functional rendering element that can access available Internet content.

[0061] Dot Link - Hyperlink or URL on a server for downloading a Dot. Based on standard Internet links, these point to or reference particular Dot Definitions and enable the Home Dot to quickly access (using standard HTTP/HTTPS requests, for example) the frame and initialization pointers/URLs in the Dot Definition to instantiate the Dot and render it.

[0062] Dot Messaging Architecture (DMA) – Elements within Dots and the Home Dot application create a messaging architecture (the Dot Messaging Architecture) that enables elements of the system including Dots, controls within Dots, and the Home Dot application, to communicate with one another. The DMA enables these elements to exchange information, request actions or functionality, and respond to system, element, or content events.

[0063] Dot Pack - A group of Dot templates specified by a particular Dot developer, provider or aggregator that complement each other in some way.

[0064] Dot Server - Also called an Internet Application Server, used to deliver Dots to a client machine.

[0065] Dot Template - The XML definition of a particular Dot provider's Dot in its default state. Information includes the Dot size, Dot class, starting URL, etc. The Dot template may be defined by a third party Dot provider. The Dot template is used as the starting point for a particular Dot, which may be customized by the user in some way after the first instantiation.

[0066] Frame – The frame, also referred to as a Graphical User Interface (GUI), defines that area upon a display of the Dot instantiation in which data may be rendered. As previously described, the frame may contain rendered Internet data. A Dot is comprised of a frame or GUI, initialization input data including data and network references to data displayed in said frame. The appearance of the frame (if any) together with data that is displayed therein is the visible instantiation of the Dot. Any Internet data or media data may be contained within the frame such as an image, Internet content, etc. Additionally the frame shape and content may be wholly defined by the Dot developer.

[0067] Lead Dot - The controlling Dot within a block. A lead Dot is the only Dot within a group that presents a control and close box. The lead Dot is the leftmost, topmost Dot (in that order).

[0068] Share - A Share is a XML file that represents a collection of one or more Dots and/or one or more Snapshots.

[0069] Snapshot - A point-in-time data set describing an individual user's overall visible Dot configuration. This includes location and configuration information on the user's overall configuration, and all blocks and Dots.

[0070] Web Browser Readable Language – standard Internet content that is capable of being parsed by a browser, such content including HTML, java script, XML, CSS, streaming media, Flash, HTTPS, cookies, etc.

[0071] Web Conduit – a control that accesses and renders standard Internet content. Dots in conjunction with the Web Conduit control can render or process anything a browser application can render or process. That is, the web conduit is an entity which processes or handles standard Internet content for rendering the GUI (graphical user interface).

[0072] The present invention discloses a technology that is capable of distributing standard Internet content without the use of and restrictions imposed by a browser as detailed hereinabove, in a manner that enables developer control of the user interface. The present invention includes a method and system in which Internet content is developed, packaged and delivered from a server. The present invention further describes methods and systems in which the user obtains content, interacts with it, and is presented with updates to the content either in part or including the entire Application Media Package.

[0073] The present invention provides an alternative model of viewing content obtained from the Internet. Unlike the web page model requiring a web browser, the present invention is founded on the premise that the basic unit of the Web and its media

should not be limited or restricted to a webpage-based display for presentation in a conventional browser nor should the user's experience of the Web be limited to one page at a time as defined by a conventional browser (such as Microsoft's Internet Explorer™).

[0074] Furthermore, the present invention enables efficient placement of web applications directly onto users' desktops. The present invention enables content providers to: break their Internet-based content up into smaller pieces; package this content as Application Media Packages (Dots); give Dots an application behavior through a Dot Messaging Architecture; and to distribute Dots from one user to another (Viral Distribution Architecture).

[0075] The ability to break web-based internet content into smaller packages (e.g., Dots) for transfer independent of a conventional browse enables content providers to distribute their media to: fully brand and control a user's experience; obtain direct access to consumers; secure longer on-screen presence; give application-media viral characteristics; and eliminate the need to maintain a software application in order to achieve these characteristics.

[0076] With regard to viral characteristics, for example, the present invention allows content providers to enable users to: collect Dots; use Dots in groups (Dot Packs); and share Dots with others. Therefore, Dots are passed from server to user and also from user to user via email links. Not only are may single Dot links be virally distributed, but also collections of Dots and their links may also be virally distributed from user to user. Because Dots reference web data including media, Dots enable the viral distribution of said media although the media may reside on a server.

[0077] Software application download is eliminated because Dot content is based on standard Internet content (HTML, dHTML, flash, streaming media, java, etc.), providing Dots with certain browser-like functionality. By this virtue, Dots may be distributed not as software application downloads but as Internet media downloads, similar to web page downloads. As a Dot may define the frame within which content is to be rendered, the visual extent of a Dot is not bound within the borders of a browser window. Unlike a web page in a third party browser, a Dot's graphical user interface may be wholly defined and/or branded by the developer.

[0078] Because Dots are instantiated and rendered upon a client computer as separate and independent graphical user interfaces, and because they may be continuously refreshed with new internet content, Dots may persist on a user's screen. Therefore Dots may possess a longer desktop presence (i.e., remain in place, or "On", while a user attends to other tasks on a device, such as interacting with different applications, making phone calls, etc.

[0079] The present invention therefore also allows for persistence of displayed Internet content. For example, a dedicated frame may be rendered on a user's display, Internet content obtained from a server, the obtained Internet content presented in the frame (and possibly periodically updated), and the frame and content positioned and sized such that it may remain, unobtrusively, open on the user's desktop, even when other windows are open. This is fundamentally different than today's model where users visit websites and leave them due to size of the browser window, full use of the content displayed, etc.)

[0080] Dots provide Internet content developers and web application developers: a unique way to package their content as custom client application experiences without having to develop, distribute, and support their own custom client application. Developers may repurpose the Internet content that they have developed and used in web pages to form Dots. In doing so, according to the present invention, developers may also add application behavior to Dots such that the user experience includes interactive graphical user interface elements, likened more to a custom desktop client application rather than to a web page. Thus, Dots enable Internet media to posses application behavior without the use of a browser or custom application.

[0081] From a Dot provider's perspective, Dots provide direct access to users; and a persistent branded presence on users' desktops beyond and without the browser, thus providing full control of the user's experience. That is, a Dot that is instantiated on a user's client computer has the user's display real estate. Conversely, a web page typically must be navigated to through the use of a web browser each time a user views the web page media, and once the user navigates to a new page, the display space (browser window) effectively belongs to the new web page content. As previously described, the branded experience may be wholly defined by the Dot developer, thus removing the rendering and branding limitations of a web page in a browser. Without the present invention, an alternative available to the Internet content developer is to develop a custom application that must be downloaded each time it is changed or alternate content is desired to be displayed.

[0082] In summary, Dots give users a unique way to experience web media by virtue of its: (1) flexible frame definition; and (2) a Dot's persistence when instantiated.

Because of their ability to persist on a user's desktop apart from a browser, Dots also provide a convenient method to access content and services (without separate user selection of a URL). With a Dot for each of a user's specific Internet data needs, Dots eliminate the need to download custom software from multiple sites for various content. Rather than implementing custom client applications in java, C++, etc., Dots are defined using XML and filled with standard Internet content such as HTML, GIFs, and the like.

[0083] The present invention also provides for the ability to collect and share favorite content and application-like behavior (i.e., sharing Dots). Links to Dots may be easily emailed between friends. Dots may be collected according to common interest, usage requirements or the like and defined as groups called Dot Packs. These Dot Packs may also be shared as links via email or server.

[0084] A fundamental aspect of the present invention is the creation of a Dot, including packaging of Internet content. The goal is to create an Application Media Packages (Dots) which combine the packaging, application behavior, and presentation of Internet content with the content itself (or typically a pointer thereto), as a single integrated unit (a Dot). Therefore, Dots are the integration of application and media.

[0085] This is fundamentally different than rendering internet content in a viewer application or alternatively, developing, distributing, and supporting a custom client-side application. Typically, a Dot definition includes details regarding a window "frame," and the Dot content has access to the entirety of this frame. The details regarding the frame is itself Internet content, so that the entire Dot "package" (including the definition of the package) is Internet content. Thus, the Internet content is not trapped in a third party viewer (e.g., Stock Trading site's web page in Microsoft's browser).

[0086] Dot content has access to application behaviors of the window frame (size, position, look and feel) and of the Dot application system (show other Dots, delete Dots, etc.) For example, a Dot may change color according to ongoing data updates that it receives over the Internet. A Dot designed to display weather information may become increasingly red as temperature data received for a particular city or region increases.

[0087] Furthermore, a Dot may communicate with other Dots. Communication between Dots is typically carried out by two or more Dots that are instantiated on the same client and enabled such that they may participate in inter-Dot communication. In one embodiment, communication is carried out by messages that are passed between Dots via the Home Dot that instantiated them. These messages may pass data, alter controls, or result in behavior change for example. Not only may Dots of the same kind communicate but in one example, Dots formed between different developers may also communicate and affect one another. Such communication may be apparent or may be a background function supporting some aspect of a Dot's functionality.

DOT AND DOT DEFINITION

[0088] With the above general description in mind, we now turn to a description of a Dot and its definition. With reference to Fig. 2, the primary components of a Dot 100 are: Internet content 101, a visual object(s) 102 within which the Internet Content 101 may be rendered, and operation element(s) 103, which perform certain functions, each discussed further below.

[0089] A Dot 100 is an instantiation of a Dot Definition 104, the components of which are illustrated in Fig. 3. At its broadest, Dot Definition 104 comprises an XML (or similar) definition 105 (which may include initialization data, control calls, and a frame definition, discussed further below) and a Network Reference 108 (e.g., a URL) to Internet content 101. (See, for example, Appendix A – DoDots XML Specification.)

[0090] XML definition 105 includes an appearance definition 106 for defining the appearance of a GUI (discussed further below), and a control definition 107 for defining controls associated with the GUI. Definitions 106 and 107 will typically include initialization data, control calls, and other elements. Optionally, a Dot may include message data 110 (e.g., access to the Dot Messaging Architecture). Application Media Package 104 (or "Dot Definition") may also include tags 112 to identify the Dot.

[0091] The XML definition 106 of the appearance of the GUI typically includes a frame definition, specifying size, location, etc. Fig. 4 is an illustration of an instantiation of a generic GUI 160, which comprises a frame 162 typically divided into a number of control regions. For example, Frame 162 may include a title bar 164, a bottom bar 166, a menu control region 168, and other definable control regions 170, 172, and 174. One critical control region, referred to herein as the Web Conduit 176, is a regions in which many Dots will present Internet content. Returning to Fig. 3, definition 106 is responsible for providing the dimensions and general shape of the GUI.

[0092] The control definition 107 defines the layout (arrangement of the controls) and functional routines or pointers to functional routines (what the controls do when accessed by a user). Control definition 107 may also include XML Dot calls that are made by the Dot Definition and executed by the Home Dot (not shown here).

[0093] Network reference 108 will typically be a URL containing the address of a server having stored thereon data (Internet content) for retrieval and display within the GUI. Functionality typically provided by an associated Application Media Viewer controls the accessing of the server at the URL and the retrieval and processing of the Internet content for display. Importantly, retrieval and display of the Internet content may take place without resort to a Web browser application. Indeed, no Web browser application need be executing or even present on the client to support the Dot functionality (although embodiments in which Dot functionality is operational in conjunction with browser functionality is within the scope of the present invention). Internet content obtained from network reference 108 may be rendered within the frame defined by and according to the layout definition dictated by the frame appearance definition 106. Internet content obtained from reference 108 may itself include XML calls providing certain functionality.

[0094] As previously mentioned, Dot Definition 104 is typically XML code. These definitions are quite simple to author, and to edit if needed. The definition is content, rather than compiled code, which provides additional flexibility at the client side should it be desired to modify the definition (e.g., allow a user to edit the network reference). As will be described further below, when an Application Media Viewer is operating on the client computer, the Dot is effectively both content and instructions. This is therefore a method of packaging internet content as an application (as compared to a hard coded custom client application) for operation on Internet content.

[0095] Fig. 5 illustrates a rendering or instantiation of a Dot Definition as a Dot 120, in this case a visual indicator of likelihood of rain, expressed as a percentage 122,

and rendered against an image of a cloud 124. According to the above, a definition for Dot 120 includes a definition of the size, configuration, and location of a first control space 126, a specification of the layout and functionality of control interfaces (or simply controls) located in a second control space 130. Examples of such controls include a "close" button, a "resize" handle, etc.

[0096] The image of a cloud 124 against which the likelihood of rain is rendered is a static image. The data representing the instructions for rendering the cloud may be found in the appearance definition 106, and thus resides within the Dot Definition 104. Alternatively, the data representing the image of the cloud 124 may be obtained from the location to which network reference 108 points. In either case, the data representing the cloud is utilized by the Application Media Viewer 104 to render the cloud image.

[0097] The actual data representing the likelihood of rain may be standard Internet content, and will change periodically as controlled by the source (e.g., the Internet content itself obtained from a server at network reference 108) of the data. Since this data changes as controlled by the source, the data is considered dynamic. This dynamic data is obtained by the Application Media Viewer from the source, and rendered atop the static image of the cloud. The frequency of updating and re-rendering of the dynamic data may be under the control of the Dot Definition or the source of the data, as a developer deems appropriate. The data to be rendered with the image may for example overlay, or be rendered in a layer on top of the image, beside the image, in the same layer or otherwise, in a layer under the image layer, etc. However, there is generally an intended relationship between the position of rendered Internet content and other items rendered in the graphical user interface. For this reason, we say that the

Internet content is rendered “in association with” the image within the graphical user interface.

[0098] It will be appreciated that Dot 120 is merely on illustration of a Dot, and many other types of content, format, layout, controls, functionality, etc. are contemplated by the present invention. For example, additional display of information and/or control may also be presented in top/bottom bars 132, 134, respectively, as will be understood by one skilled in the art.

[0099] Thus, a Dot is defined using, for example, an XML file which is the embodiment of a Dot Definition 104. The definition contains enough information that, when instantiated, the Dot may be rendered and filled with Internet content from a source. The Dot Definition contains data used to define and configure a frame and its elements, specify and lay out the controls, and specify parameters that initialize all the Dot's components with content and data.

Frame Definition

[00100] A frame can be defined to have a configuration (e.g., base shape), size (e.g., dimensions), and initial location (which may be changed by a user upon instantiation). In additional, a simple Dot may be defined to have four default functional frame definition controls, for example to encourage user interface consistency between different Dots. These four default functional controls include a title bar 132 (Gif rendered with title bar properties), a Dot menu 136 (with flexible menu entries), an exit control 128, and a bottom bar 124 (Gif rendered with bottom bar properties) with corner elements 138, 140 (for sizing and consistent user interface). A default layout of these functional

components may be set, such as positions for the title bar 132 at the top of a Dot (Dot Menu 130 on its left, exit control 128 on its right) and the bottom bar 134 at the bottom of a Dot (with corner elements on either side). It will be appreciated that this is one form of layout, of which many others are within contemplated within the scope of the present invention.

Title bar

[00101] The title bar 132 may contain a reference title for the Dot and may provide for a place for a user to grab and drag the Dot in a windowed environment. It may be implemented as a GIF rendering control that can be targeted to a local/remote title bar 132 image (an embodiment supports four title bar images - normal, mouse-down, mouse-over or hover, inactive). In this embodiment, the title bar 132 has a fixed height and width that is a function of the frame's width. The Dot Definition allows the title bar 132 image to be justified left, right, or center and for specified number of repeat-pixels, the title bar image may be tiled the full width of the Dot. Overlay text can also be specified to layer on top of the title bar 132 image.

[00102] The default size and the default position of the Dot are defined as part of the appearance definition 106 in the Dot Definition 104. The Dot size can be specified in pixels, or Dot Units (1 Dot Unit is 40 pixels), etc. Dot Units can define a grid that keeps Dots sized on the same units so that they more easily and neatly align as well as cleanly snap to each other when Dots are used together. Dots can be sizeable or fixed-size in either dimension or both. The default screen position for a Dot can also be specified in pixels, or in relative position – top, left, center as provided for in the appearance definition 106 in the Dot Definition 104.

Menus

[00103] One embodiment of the present invention reserves the four corners of a Dot for functional branding elements. The upper left comer is currently reserved for the menu control 136. The upper right corner is currently reserved for the Dot exit 128 control. The lower corners 138, 140 are for sizing the Dot if the Dot is resizeable. Menu entries for branded menu control 136 (upper-left) can be specified in the Dot Definition 104, for example at 112. The menu items can be named, assigned images and tooltips, and assigned a specific and targeted action, for example a DotMessage 110 sent to a specified element (address). (See DMA messages hereinbelow). The Dot exit 128 button (upper-right) closes the Dot. An on-close action (such as a message and address pair) can be assigned to the Dot close event.

Bottom Bar

[00104] The bottom bar 134 may be implemented much like the title bar 132, including supporting text overlay and additional functionality. (See Appendix A – DoDots XML Specification for a list of controls with XML call and their definitions)

Alternative Embodiments for Controls

[00105] Dots may be defined so as not to require a rectangular title bar 132 or bottom bar 134 (at top and bottom). Indeed, either or both of title bar 132 and bottom bar 134 may be omitted in a Dot Definition. Other controls (128, 130, 138, 140) may also be

omitted, provided certain functionality (e.g., exit or close) is otherwise provided. Furthermore, every functional element in a Dot may be defined as a control element that is relatively positioned and layered (in z order) – much like layers in HTML. Transparency may also be a given property. Different layers and controls may be given Dot properties (such as a title-bar-move-property or Dot-menu-property). Very flexible Dot interfaces may therefore be provided. (See the specification for the <DOT> and <CONTROL> DTDs in Appendix A – XML Specification.)

Control Space

[00106] Between the title bar 132 and the bottom bar 134 is a control space 126 where one or more controls, images, data, etc., can be flexibly positioned. For example, control space 126 may include a web rendering control referred to herein as a Web Conduit (described further below). The Dot framework supports any Active-X based control which may be positioned and initialized in a Dot (e.g., an on-line stock trading company may implement a custom stock chart-rendering control and define a Dot to permit a user to interface with this control).

[00107] A Dot may be defined to include a static image over which dynamic data may be displayed, such as the example of Fig. 3 in which a static image of a cloud has rendered thereover dynamic (changing) data relating to likelihood of rain. Alternatively, the Web Conduit may render in control space 126 purely static data obtained from the Dot Definition, a URL, or the client device, as well as dynamic data resulting from client-run processes, pushed or pulled Internet content, etc.

[00108] The Web Conduit control is just one of many controls that may be included and positioned in a Dot's control space 126. For example, Active-X based control can also be referenced and inserted. This capability allows a Dot developer to implement a custom control. For example, a stock ticker display may be implemented as a custom secure chart control that renders stock tracking charts with small streams of secure xml data. Such a custom control can be laid out with a Web Conduit control next to it if the Dot developer chooses to do so. Also, just like a browser, a Dot developer may embed an active-x control in an HTML page rendered in the Web Conduit control as is the practice for use with full screen browsers.

Web Conduit Control

[00109] The Web Conduit (mentioned above) control can render Internet content in a fashion similar to Microsoft's Internet Explorer™ (IE). This control functionality may be provided, for example, by utilizing Microsoft's Internet Explorer's (IE4+) WebBrowser object. Note that the IE4+ object does not constitute a browser. The Web Conduit merely uses rendering tools of the object – it does not invoke or require the Internet Explorer application or any other web browser application. Rather, functionality is provided to support rendering of Internet content so as to integrate this control with the Dot framework and to receive and transmit messages in and out of the HTML rendered in the control.

DOT IDENTIFICATION

[00110] A Dot can be identified (in the Dot Definition 104) by three ID strings: GlobalID, Domain, and Kind reference. These are defined as follows:

GlobalID – A Dot's GlobalID is used when a Dot Definition is within a Share (described further below); this ID is unique with respect to other Dot tags in the Share.

Domain – A Dot's Domain is a unique label for the owning company Dot developer of the Dot.

Kind - A Dot's Kind (specified by the Dot developer) is a helpful identifier for finding the Dot; A Dot's Kind does not have to be unique.

CATEGORIES

[00111] In an embodiment of the present invention, categories are used as an organizational tool. A Dot Definition 104 (Fig. 3) may be provided with an element 150 defining the category(ies) with which that Dot is associated. A mechanism is provided to allow identification of categories of Dots, useful for selecting, sorting, organizing, etc. The categories that a Dot belongs may be edited by editing the string elements in the Categories element 150 of the Dot Definition 104. (See the specifications for the <ALL-CONFIG> and <DOT> DTDs in Appendix B.)

EVENTS

[00112] A Dot Definition may also include an Events element 152 in which actions can be assigned to certain Dot Events such as the Dot's ONCLOSE event. DotEvents can be assigned a specific and targeted action much like a menu control 136 item; currently this action is implemented as a DotMessage sent to a specified recipient (see DMA messages, below). When the specified DotEvent occurs, for example ONCLOSE when the Dot closes, the specified message is sent to the specified recipient.

HOSTING AND SERVING DOTS

[00113] Referring again to Fig. 1, web server 50 may serve the Dot Definitions 104 as an XML file to client computer 20. The Dot Definition 104 may be served elsewhere such as a third party or partner server (not shown) along with the Dot content that fills in the Dot. In one embodiment, this XML specification may be kept proprietary and Dot developers define and package Dots indirectly without having to author XML Dot Definitions. In another embodiment, the xml specification is open, and content providers (and others) have complete control of the authoring of Dots.

[00114] Dot Definitions 104 are indexed and stored in server 50 in database 74, and are accessible to Dot-rendering and Dot-management applications (the Application Media Viewer) via "DotLinks". These DotLinks, based on standard Internet links, point to particular Dot Definitions and enable the Application Media Viewer (using standard HTTP / HTTPS requests) to quickly access the frame and initialization pointers or URLs

in the Dot Definition to instantiate the Dot and render it, filling with DotContent (Internet content served by a partner Dot Developer servers 82).

[00115] Dot developers (e.g., content and/or service providers) serve the Dot content obtained from source or reference 108 (the standard internet content that fills in the Dot). According to one embodiment, Dots may be served my numerous different non-proprietary servers 50. Content may also be provided by a non-proprietary server, as specified by the Dot developer. Of course, it is possible that in other embodiments specific Dots may only be obtained from certain sources.

[00116] Because the Dot Definition 104 contains enough information to instantiate the Dot as well as the reference 108 that address the location at which the Dot content is located, a Dot is easily and quickly distributed, as well as collected and shared by users. (This is discussed further herein with regard to Viral Distribution Architecture.) It is therefore easier and faster to get information delivered in a Dot than in a web page.

[00117] This Dot-based architecture is very different than the current model of Internet content. Today, users visit web sites, following a destination-based model of content access. The process of accessing media therefore is sequential or linear, resulting in user viewing of one full-screen web page at a time. Furthermore, there is no simple to use or inherent mechanism in place today to share sites short of sending URL's.

ENHANCED DOT CONTENT

[00118] The Dot Definition 104 code is accessible, flexible and dynamic, enabling it to be modified at any time, even after it is rendered. For example, Internet content 101 (HTML) can access and modify its associated Dot Definition 104 by sending messages to other portions of the definition, such as the definitions of appearance 106 or control 107. Other application system-level functionality is also available by sending messages to the Application Media Viewer 199, discussed further below.

[00119] By using an architecture, referred to as Dot Messaging Architecture, for communication between Dots, and between a Dot and the Home Dot, standard Internet content can access and enable Dots to exhibit application behavior. That is, content can provide functionality typically associated with applications, such as dynamic refresh, contextual presentation, interactive response between user actions and changes in the graphical user interface or frame, etc. (See “Dot Messaging Architecture” below.)

EXAMPLES

[00120] The following examples are used to demonstrate key features of the present invention. Some of these features include: a new way to view standard internet content, a fully branded experience for the user, and a web experience that delivers true application behavior. Sample companies are used in these examples to demonstrate branding together with the use of internet content to produce a novel user experience that transcends the web page. Trademarks are those of the respective companies.

E*TRADE

[00121] E*Trade's primary business is to enable users to execute securities trading online. Therefore stock information and notification are essential elements to their business, as are the transactions themselves. Persistent display is an important aspect of Dots as is the ability to provide ongoing data updates. Below is a list of aspects that illustrate novel advantages that Dots provide for a possible E*Trade Dots system.

- E*Trade can leverage their existing content through Dots (Dots are built on top of standard HTML]

- E*Trade can break their content into smaller pieces and package them into Dots.

- E*Trade can give their Dots application behavior. Instead of being trapped inside a viewer window, content providers have access to the entire frame, which enables them to brand the Dot, access to application and system features. Content providers can also enable users to resize the Dot click, to open E*Trade Dot, ability to execute operations in the Dot such as trading stocks as opposed to only monitoring stock prices.

- Because Dots can be left on or actively running and displayed on a client computer, they can notify users of coming/pending/immediate content events. A Dot can notify a user in many ways, including: popping up a message box or another Dot. A Dot can resize itself and show new content and/or bring itself into focus, as a window application may also do.

MERRIAM-WEBSTER

[00122] In this example, Miriam-Webster has word definition content that is useful for users to access. Users may be better served by the Dot format of presenting as opposed to traditional web pages. Below is a list of features that illustrate this point.

- Miriam-Webster can leverage their existing content to provide a dictionary "application" in a Dot; the content is HTML delivered from their servers. In a Dot, Miriam-Webster can provide direct access to just the information users are interested in viewing without requiring them to disengage in other operations such as word processing work in order to actively seek information from Miriam-Webster's servers. Additionally, content providers can add new functionality to their Dot applications just by changing the HTML files on their servers that are delivered to Dots or as Dot Definitions 104. They do not need to revise and redistribute custom client software.

EBAY

[00123] A single company such as eBay can use multiple Dots to engage users from many points at the same time to facilitate a more complex process, such as online auctions or shopping. Many companies have an enormous amount of assets (content, services, and applications) that can only be exposed to users one page at a time.

Featuring and exposing new or important functionality is often difficult to do if they are buried several pages deep.

- Dots enable content providers to feature and expose functionality and services in a new form, leveraging and featuring all of a company's assets in a consistent way. eBay, for example, might provide a "MyBids" Dot that allows users to more closely follow those items they have bid on (the current asking price and when the auction will expire).

- eBay can also provide a Gallery Dot. Instead of wading through thousands of thumbnails in the gallery section to find what their looking for, users can identify categories they are interested in and window shop these items, click on a particular item to add new item to MyBids Dot. When a user finds something that interests him, it's added to the MyBids Dot with a single click.

- There is a messaging architecture (DMA) that may be enabled by the Dots architecture disclosed herein which enables Dots to communicate with each other, thus facilitating operations between Dots without user intervention. For example, a user finds an item of interest in a "Gallery" Dot. He clicks on that item and it is added to the "MyBids" Dot with a single click. Additionally, a "BidDot" may be caused to pop up for that single item, allowing a user to directly bid and monitor the auction process. He clicks on a second item in the "MyBids" Dot and another "BidDot" pops up.

MP3 DOT

[00124] By using an embedded MP3 playing control, an MP3 playing Dot can access, play, and manipulate MP3 files and playlists from a local hard drive or the web, just like a custom MP3 client application. The significant difference is that the GUI & controls (the Dot Definition 104) are entirely Internet content (HTML, javascript, etc.) and can change simply by modifying HTML files online.

MOBILE/OTHER PLATFORMS

[00125] Dots can be viewed as a smaller-format package for internet application media. This package is more portable than executable applications as well as full screen formatted media for browsers. Portability across platforms requires consideration of diverse screen sizes and resolutions as well as operating systems and user interface controls. This diversity requires companies or users who require cross platform media distribution to scale down their existing content for portability to mobile devices. No such scaling down is required when deploying Dots and the Dot architecture.

APPLICATION MEDIA VIEWER (HOME DOT)

[00126] As previously mentioned with regard to Fig. 1, a client computer 20 will ideally have stored thereon a software component referred to as an Application Media Viewer (or Home Dot) 119. As Application Media Viewer 119 performs a number of functions in the process of acquiring, instantiating, modifying, etc. Dots, in addition to simply viewing Dot content, we also refer to an Application Media Viewer as Home Dot

herein. The Home Dot 119 is effectively a client application that contains the procedures or calls to procedures for rendering and managing Dots on the client computer. It therefore has attributes of an application. The Home Dot is designed to operate in conjunction with a Dot Definition, and vice versa.

[00127] Data contained within an Application Media Package (Dot) is parsed by the Home Dot. Control calls contained within the Dot are also parsed and executed. The Home Dot may then instantiate a Dot without relying on functionality provided by a browser. In fact, in a preferred embodiment, a browser is not employed to instantiate or operate an Application Media Package.

[00128] The Home Dot is a compiled application, and can be programmed using, for example, MFC (Microsoft Foundation Class) or the like. The Home Dot need only be downloaded to the client computer one time and may be used to instantiate any number of Dots. The Home Dot is capable of executing and displaying multiple Dots simultaneously.

[00129] The Home Dot may be provided with the ability to automatically or manually check for updated versions of itself on a server. If a newer version is detected, the user may be provided with the opportunity to download and install the updated version of the Home Dot.

[00130] The Home Dot supports a number of functionalities, including support for standard internet protocols (http, https, etc.) Additionally, the Home Dot supports collecting and organizing Dots, user login to a Dot server, user activity statistics collecting and reporting, and messaging between Dots, as discussed further below.

NETWORK DISTRIBUTION OF DOT AND HOME DOT

[00131] Referring now to Fig. 6, a communication flow diagram 299 is shown for an exemplary system enabling the distribution and use of Dots between a client computer 199, a server (Dot server) 153 making available one or more Dots including a Home Dot, and content server 155, each with a network address or IP address. It will be assumed for this particular example that a Home Dot 200 has previously been downloaded and installed on client computer 199. It will also be assumed for this example that Dots 120 and 230 have been previously requested (the mechanism for this request is described further below).

[00132] Accordingly, Home Dot client application 200 utilizes Dot Definitions to instantiate Dots 120, 230. There may be ongoing communication 250, 260 between Home Dot 200 and Dots 120, 230, respectively. This communication may include data for the presentation of Internet content, messages, and/or state information. Furthermore, the Home Dot client application 200 executing on a client computer 199 communicates with Dot server 153 through a channel 210 (such as a broadband Internet connection) as well as Content server 155 through channel 157. Internet content is received by Home Dot 200 and rendered into the instantiated Dots 120, 230, as appropriate. The Internet content may be one or more of many formats, such as XML, HTML, GIF, Streaming Media, Flash, HTTP, HHTP(S), etc.

[00133] The Dot server 153 is communicatively connected to a physical memory device 201 which holds a database 202 containing software objects for downloading to

or access by a client device such as client computer 199. This physical memory device 201 may be a RAID hard drive system, a standard hard drive, removable media, or any other type of volatile or non-volatile memory known in the art. Database 202 may contain one or more Dot Definitions 104, the Home Dot client application 200, available for download to the client device, as well as user account data 205, state data including use statistics 206 and Dot index/shares 204 (each described in further detail herein).

[00134] The content server 155 is communicatively connected to a physical memory device 261 which holds the Internet content 262 as well as other forms of data 263. Content/data 262, 263 is communicated to the instantiated Dots 120, 230 where it is rendered on the client computer 199. In general, content passes first through the Home Dot application 200 or a similar client computer 199 program that is capable of receiving and parsing Internet content. Therefore, the connections between content server 155 and Dots 120, 230 are shown as dashed lines, indicating that for this figure the connection is indirect.

[00135] Unlike a downloadable custom client application, the Dot Definition 104 is comprised entirely of Internet content in a web browser readable language. To instantiate a Dot on a client device or computer, only its definition is required (assuming that the computer is Dot-enabled, i.e., that the Home Dot client application 119 has been installed). The Dot Definition 104 contains just enough information to define, layout, and initialize a Dot's components (frame, controls, etc.); this information configures the graphical user interface which may then present Internet content therein. Consequently, a Dot Definition typically has a small file size (~2KB), and is therefore a quickly accessible and loaded XML file.

[00136] One aspect of software distribution according to the present invention may proceed as illustrated in Fig. 7. A user first requests a Dot, or more specifically its Dot Definition 104, by clicking on a Dot link 321 which may be a hyperlink on the web page of a Dot server 153, a web page of a partner or content server 155, or selectable menu item on the client computer 199. A Dot link 321 is an Internet link to a Dot Definition 104. A Dot link operates in a manner similar to an HTML link. One added feature associated with a Dot link is that the server that serves the Dot Definition 104 typically has a sensing mechanism that can determine whether or not a user has the Home Dot application 200 installed on his computer or device 199.

[00137] If the user does not have the Home Dot application 200, then it is downloaded and installed with a first set of Dots (e.g., 120, 230) that may be user-selected or part of an initialization set. This download process is discussed in further detail below. From that point forward, the client computer 199 is Dot-enabled and does not require a subsequent download and install of the Home Dot. In short, only a single application-like software product need be downloaded and installed on a client device to enable a variety of different Dots, as opposed to requiring a user to download a different custom client application for different types of Internet content.

[00138] Once a client machine 199 is Dot enabled, (Home Dot application 200 installed), Dot 120 may be rendered by simply clicking on Dot link 321. This rendering is typically faster than it takes to load and render a small web page. Furthermore, once the Home Dot application is installed on the client no additional executable software need be downloaded or install to view and interact with a Dot. The Home Dot application 200 accomplishes this by retrieving the Dot Definition 104 specified by the Dot Link 321,

instantiating the Dot 120, obtaining the Internet content specified by the Dot Definition 104, and presenting the Internet content (standard Internet content from DoDots' partner servers 155) within the Dot.

[00139] Once a user has received a Dot Definition 104, the Home Dot application 200 remembers the Dot's Dot Definition 104 as part of a user-profile 310 so that it can instantiate the Dot and begin filling it with Internet content immediately. Because a Dot Definition 104 becomes part of a user-profile 310, it can be modified by use (e.g., the image of its default title bar 125 may be changed, its Web conduit control may be navigated to a different URL using DMA messages, etc.) and the Dot will initialize from its last state stored in user profile 310 the next time the Dot is to be instantiated (or "turned on") at 324.

[00140] A Dot Link 321 represents a Dot. Therefore, this Dot Link 321 (and hence the Dot 120) can be easily and instantly distributed; the Dot Link 321 can be posted on web sites to promote the Dot, or shared with friends via email. This is viral distribution of a Dot, via distribution of the Dot Link 321 - the Dot server hosts and serves the Dot Definitions 104 to which the Dot Links 321 point. Dots may also be aggregated into packs by content providers, or other aggregator, grouped for example by like subject or perceived common user interest, and the packs of links acquired by a user at 322 as if they were single Dots. A user may also provide others with access to Dots when the actual Dot Definition is located on a remote third party Dot server. This may be accomplished by way of a Sharelink, which may be provided by a user at 302. Others may then access the Dot, including setting changes that may have been made by the user, by accessing the Sharelink provided at 320.

[00141] From the client perspective, one example of a process of acquiring and instantiating a Dot is illustrated in Fig. 8. According to this process, a Home Dot is employed to acquire a new Dot, however it is within the scope of the present invention to acquire new Dots through other mechanisms, such as through a web browser application (with utilization of the Home Dot ultimately required in order to instantiate and populate the Dot). After logging in at step 240 the user clicks on the Dot Link signaling a request to acquire the Dot. The Home Dot application then sends a request to download the Dot to the Dot server 153 at step 241. Alternatively, the user may click on a Dot link before logging in, for example if the link has been e-mailed to the user, and then, after clicking on the link, log in. In another aspect, the user could view, but not collect, a transient Dot without ever logging in.

[00142] After the user is logged in and has clicked on the Dot, the Dot server 153 retrieves the Dot template from its Dot database, and provides it to the client in step 243. The client receives the Dot template from the Dot server 153 in step 244.

[00143] For display of the new Dot, the Home Dot creates a frame in the display of the user interface (42, Fig. 1) in step 245. In step 246, the client 199 requests the necessary Internet content stored at the URL(s) identified in the Dot Definition from the corresponding content server 155. The content server 155 transmits the content in step 247, and in step 248 the Home Dot presents the content in the viewer. As the type of content may vary greatly, the content may appear within the frame (such as text or images) or may be independent of the frame (such as audio) but the frame including controls for controlling aspects of the presentation of the content. In one embodiment, Internet content is presented such that it is enclosed by the frame, allowing the user to

preview the Dot. Alternatively, the Home Dot may simply collect the Dot, adding it to the user's processed user profile 310.

[00144] The user may then view the Dot on the user interface display 42, and may interact with the Dot much in the same way as a user may interact with typical Internet content or web applications. This may change the Dot from its present, "raw" state to a used state reflecting alteration or use of the Dot by the user. Thus, the user has stored on client 199 a Dot Definition rather than a Dot template. For example, the user may direct the Dot to display different content within the Dot if the Dot content enables the user to do so. Or, the user may provide information to the content server 155 which allows the Dot to be personalized. The user may additionally be given the option of changing the size or location of the frame, etc.

[00145] If the user collects the Dot, the Dot will be added to a user's list of collected Dots. For example, the Home Dot may add the Dot's definition to a processed user profile (discussed further below). Thus, the Dot's "state" will be preserved. Alternatively, the Home Dot may collect the Dot automatically, without waiting for a user command, by adding the Dot Definition directly to the processed user profile.

[00146] If the Dot's state has been altered by the user or by the content – if, for example, the user has directed the Dot to Internet content other than the initially-displayed content, provided personalizing information, or changed the properties of the frame, or if the content itself has caused an alteration in the Dot — this alteration will be reflected in the Dot Definition stored in the user profile. Information which personalizes the resulting content, instead of being stored in a "cookie" on the client device, can be stored as part of the Dot Definition. This advantageously permits personalization of

content, such as Internet content that is associated with the Dot content and the user, without storing a cookie on the client 199. One advantage this provides is that the state of a Dot can be returned for a user no matter which computer the user accesses the dot from.

[00147] A user may also access a Dot which has been previously collected, and possibly altered by use as explained above. As previously described, the user profile includes Dot Definitions for Dots which have been viewed and collected by the user. A screen shot showing Dots 502, which have been previously collected by a user is shown in Fig. 9. Also shown are Dot Links 504 available from a Dot server for download to the client.

[00148] One embodiment of the steps taken to provide the user with Dots which have been previously collected are shown in Fig. 10. According to this process, acquired Dot Definitions are maintained on a central server, and a user profile identifies which Dot Definitions are associated with particular users. This is useful when a user may be using more than one computer and wishes to have access to her collection of Dots on any machine she is using. However, it is equally within the scope of the present invention that Dot Definitions may remain resident on a user's computer and not be stored for that user on a central server or the like.

[00149] As discussed above, on login at step 250 the user's profile is retrieved by the Home Dot stored on the client (step 251 and 252). The user's profile, stored in the user profile database, includes the Dot Definition for each of the Dots previously collected, and possibly altered, by each user. The Dot Definition, as discussed above, includes the Dot frame definition and the definition of the controls for filling the viewer

within the frame with content. After log in, a local copy of the processed user profile is stored on the client 199, and this copy is further processed as the user collects new Dots, or uses new or collected Dots such that the Dots are altered.

[00150] When the user clicks on the name or icon of a collected Dot at step 253, the Home Dot creates a frame in the display of the user interface (40, Fig. 1) in step 254. At step 255, the Home Dot causes the client 199 to request the Internet content from the URL identified in the Dot Definition from the corresponding content server 155. This content is provided in step 256. It will be appreciated that the URL need not be the same as the initialization URL in the Dot template stored in the Dot template database 202 on Dot server 153, and in fact the content server need not be the same content server corresponding to the initialization URL. In step 257, the Home Dot places the content in the Dot frame, and the Dot is then fully instantiated with content.

HOSTING DOT DEFINITIONS

[00151] Dot web servers 153 host and serve the XML Dot Definitions 104 and provide the Dot Links 321, Dot Packs 322, and sharelinks 320 that point to the Dots so that a user can easily and instantly add the Dot 104 to their Home Dot application 200 (adds Dot 104 to their user-profile 310) simply by clicking on the Dot Link 321, pack link 322, or sharelink 320. The Home Dot application 200 registers with the local browser/computer so that Dot Links 321 are handled by the Home Dot application 200 (and not by the browser).

Dot Templates and the Dot Index

[00152] New Dot Definitions 104 get published to a Dot index 204. A Dot Definition can be modified by a user once downloaded. Since these new Dot Definitions are resident on the server for downloading, they are also referred to herein as Dot templates. The Dot index stores Dots definitions or templates 104 in database 202 on Dot server 153 by category (such as sports, finance, games, etc.) with descriptions and images for each Dot. In the preferred embodiment, Dot Definitions 104 are published to categories specified by the Dot developer. Categories can also be automatically created to support indexing Dots that are most popular (most commonly accessed, most commonly shared, or other sorting criteria).

[00153] Dots as well as their index are formatted as Internet content. Therefore, users can browse or search the Dot index for new Dots using either a browser or using their Home Dot application 200 application (via an AddNewDot Dot or like functionality).

[00154] Each of these Dot templates (Dots definitions 104) are pointed to by a Dot link 321; the Dot link 321 for each Dot is generated automatically by the server 153 (when the Dot is published or previewed) to reference that Dot. Clicking this Dot link 321 adds the Dots definition 104 to the user's Home Dot application 200 (via the user profile 310) and turns the Dot on (instantiates it and fills it in with internet Dot content).

[00155] Once a user receives a new Dot (Dots definition 104) by clicking on a Dot link 321, the Dot template is downloaded and becomes a Dot Definition 104 forming part of their user profile 310 (the XML data that defines which Dots the user has, which Dots they left open, what the state of the Home Dot application 200 last was, etc.).

[00156] The Dot server 153 may optionally host Dot Definitions 104 as part of user profiles 310. Every Home Dot application 200 user has a user profile (expressed in XML) that stores the Dot Definitions 104 that the user has collected as well as the last state of the Home Dot application 200. (See also the specification of the <ALL-CONFIG> DTD in Appendix B.)

[00157] In an additional optional embodiment, when a user successfully logs into the Home Dot application 200, state restoration may be provided by Dot server 153. In this embodiment, authentication may be handled by the Dot application server 153 (as opposed to the user device and Home Dot). The Home Dot application 200 requests the user profile's <ALL-CONFIG> file 311 by communicating with Dot server 153 at 303. The Home Dot application 200 then receives the <ALL-CONFIG> file 311 from Dot server 153 at 303, and restores its state (from the <ALL-CONFIG> 311) presenting last user state, i.e., which Dots were ON, where the Home Dot application 200 was positioned on the screen, etc.)

[00158] The Home Dot application user interface (UI) enables a user to turn a Dot ON 324; in this case the Home Dot application 200 has the Dot Definition 104 (part of the user profile 310 that was retrieved on login) that contains enough initialization data to instantiate the Dot and fill it with content just as the user left it.

[00159] As previously mentioned, Dot Definitions 104 that are part of a user's profile 310 may differ with use. In other words, the Dot Template from which they were originally created may have a different state than a Dot Definition 104 that has been modified through use. The user profile could also be implemented to point to Dot

Definitions 104 that are always hosted remotely (and/or not entirely part of the user profile).

[00160] Centralization of Dots within the Home Dot 200 enables users to collect Dots. This feature is significantly different than today's model of the Internet in which users visit a page one at a time, and then leave. Users collect Dots, keep them running, and share them with others. By packaging Internet content as a Dot and referencing it by a Dot link 321, Internet content is given viral characteristics (i.e., Dots can be instantly distributed). (See also the Session_Config Example found in Appendix B.)

Shares

[00161] Dot servers 153 also host Dot Definitions 104 as part of Shares. Because a Dot link 321 represents a Dot, this Dot link 321 (and hence the Dot) can be easily shared (distributed via email) from one user to other users.

[00162] If a user receives a Home Dot application share and has the Home Dot application 200 installed (their machine is Dot enabled) then clicking on the Share Link Dot link 320 in the share will add the Dot(s) in the share to the user's Home Dot application 200. If a recipient of a Share Link doesn't have the Home Dot application 200 installed, then the Home Dot application 200 is downloaded and installed (with the user's cooperation) with the first Dot(s).

[00163] When a user shares Dots, their Home Dot application 200 generates a share file (XML file) that contains the Dot Definitions 104 of the Dot(s) included in that

share. The Share XML is then sent to Dot server 153; the Dot server 153 automatically generates the Share Link 320 that references the Share XML. This Share Link 320 rather than the Share XML is sent or distributed (via email or posted on a web site) to other users. (See also the specification of the <SHARE> DTD found in Appendix B.)

SOFTWARE PRODUCT DOWNLOAD PROCESS TO CLIENT

[00164] Reference is now made to Fig. 11, which is a flow chart 400 illustrating the software product client download process. According to one embodiment, to begin, a user makes a request for a Dot at step 402. At step 402 it is determined that the user does not have the Home Dot application 200 installed. Step 406 comprises of the following:

[00165] User is informed of need to download software to view Dot. The message could be from the site owner (content provider) or from a Dot server.

[00166] "Do you trust [provider/Dot server host]?" dialog is presented to user at 405. A dialog then tells the user the size of download and approximate time for download.

[00167] In step 408, the user clicks the "Yes" button. (Alternatively, if the user clicks the "No" button, step 409 executes with an exit message such as "You decided not to get the Dot"). Proceeding now to step 410, the user gets a Trust Certificate (a security process well understood in the art). The user accepts the Trust Certificate in step 412. (Alternatively, if the user declines, step 413 executes with an exit message such as "You

decided not to get the Dot"). In step 414, the user accepts and receives the license agreement and is presented with a dialog that asks the user to confirm the directory for download location. (Alternatively, if the user declines, step 417 executes with an exit message such as "You decided not to get the Dot"). In step 416, the user accepts the license and confirms the file location, and proceeds now to step 418. The download process begins, followed by the installer download and background install operation. The requested Dot opens, and the "KeepMe" Dot opens. Note that the "KeepMe" Dot may be provided by a third party such as a content provider. If no third party-provided "KeepMe" Dot exists, a default "KeepMe" will open.

[00168] In step 420, if the user decides to keep the Dot, the KeepMe (Dot) Operation initiates (see below). If the user decides to close the requested Dot before selecting "KeepMe" and then decides to select "KeepMe" the requested Dot will close, the Keep Dot operation will initiate and the requested Dot will be added to the Dot list. Alternatively, if the user closes the requested Dot and the "KeepMe" Dot without selecting "KeepMe" the Home Dot application 200 will remain installed but the Home Dot application 200 UI will not be available to the user. Lastly, if the user decides to close the "KeepMe" Dot before closing the requested Dot the user will not be able to initiate the Keep Dot operation.

[00169] The other branches of the flow chart 400 will now be described. Beginning once again with step 402, the user requests Dot. According to the alternate branch leaving step 404, the Home Dot application 200 is found on user's machine. In step 405, it is indicated that the user is not registered. (Alternatively, if the user is registered, the Add Dot operation is executed step 407 and the process terminates).

Proceeding therefore to step 411, the requested Dot opens. The "KeepMe" Dot opens ("KeepMe" Dot may be a default Dot or a "KeepMe" Dot provided by the Dot/content provider). If the user decides to keep the Dot, the Keep Dot operation then initiates (see below). Alternatively, if the user decides to close the requested Dot before selecting "KeepMe" and then decides to select "KeepMe" the requested Dot will close, the Keep Dot operation will initiate and the requested Dot will be added to the Dot list. In another scenario, if the user closes the requested Dot and the "KeepMe" Dot without selecting "KeepMe" the Home Dot will remain installed but the Home Dot UI will not be available to the user. If the user decides to close the "KeepMe" Dot before closing the requested Dot the user will not be able to initiate the "KeepMe" operation.

[00170] The following is a summary of the "KeepMe" registration operation (assuming an unregistered user has a partner's Dot open):

- User clicks "KeepMe" button of "KeepMe" Dot.
- User registration form launches.
- User form displays in "KeepMe" Dot.
- User form includes link to privacy statement.
- User completes user registration form and submits.
- Home Dot appears.
- Welcome Dot appears.

[00171] In one embodiment of the present invention, it is possible to track the referring partner, for example for awarding incentives for referring a user. The form of the incentive is a matter of business choice. However, in such an embodiment, the registration operation will comprise the additional step of:

- Crediting the referring party (e.g., partner) with the referral and/or converting user.

[00172] For an alternative software download process, refer to U.S. Provisional Patent Application ser. no. 60/176,687, Appendix F – DoDots Feature Priority List PPA.

[00173] It will be appreciated that the present invention addresses scaling issues by breaking content up into smaller, more focused software components. These smaller software components (Dot Definitions 104) may thus be served to mobile devices to compensate for bandwidth and content feature support issues, to overcome a lack of browser functionality and processing overhead, etc. Furthermore, the architecture supporting Application Media Packages or Dots offer a consistent experience with application media or Dot content 104 across device types, e.g., similar experiences as between desktop, laptop, web-enabled phone, PDA, etc. As Dots are distributed as easily as web pages are viewed/visited, Dots can be instantly distributed and users can stay connected with content providers of their choice without having to download custom client software from each provider, and without regard to the device type being operated.

[00174] For further details on the structure of the XML structure used for Dots according to one embodiment of the present invention, see Appendix A hereof. For further details on the functions and design of Dot server 153, see Appendix B hereof.

APPLICATION MEDIA VIEWER – THE HOME DOT

[00175] One unique aspect of the present invention is the interaction between the application media package 104 and the application media viewer 119. This aspect is now discussed.

[00176] As mentioned, the application media viewer, or Home Dot, is a network enabled client application. With respect to the user experience, the Home Dot provides the parsing and rendering function of the application media packages or Dots. It also provides for the application behavior of Dots by executing calls or methods that are parsed from the Dot by the Dot Definition, user events, system events, or the like. That is, at a minimum, a Dot comprises a definition of a graphical user interface (frame) and content to be rendered within or associated with that frame. Thus, a critical function of the Home Dot is to parse the Dot definition, render the frame, obtain the content, and render the content in or associated with the frame.

[00177] As previously discussed, the Home Dot comprises Internet content. Thus, the Home Dot is in part a content parser, providing rendering of the graphical user interface (GUI) from Internet content.

[00178] Furthermore, Dots originate on remote network devices. Thus, another function of the Home Dot (client-side) is to obtain and organize Dots on the computer on which the Home Dot resides.

[00179] The Home Dot is a part of a client/server system. As a client installed in one of a multitude of client computers, all communicating with a Dot server, the Home Dot maintains communication with that server to perform system functions for the client.

These system functions require a defined command set or functions calls between the client and server. Such functions may include user login, user account status, use statistics, Dot downloads, individual Dot configurations or user customizations, Dot organization, revision updates for both Dot and Home Dot installations.

[00180] Because the present invention enables versatility in the manner of packaging and operating with Internet media (forming application media packages), and because the breadth of internet media and the scope of available information is expansive, the present invention also provides for methods of Dot organization on a user's client computer. More specifically, the Home Dot provides for Dot management for a large number of Dots. Such methods of management include grouping Dots into an organized layout for persistent display, categorizing and grouping Dots into Dot Packs, opening and closing sets of Dots or Dot Packs according to a user's current information requirements, and configuring individual Dots either by user defined categorization or customization parameters that have been enabled by a Dot's developer.

[00181] The Home Dot according to the present invention provides for methods for grouping Dots, sharing information between Dots, and sharing these groupings with others. In other words, the present invention provides for methods by which a user or other third party or collectively, third parties, may build upon the utility of Dots as an atomic media element by adding their context through grouping and configuration. In doing so, the present invention enables the addition of third party knowledge that may or may not include the participation of the original Dot developers. Furthermore, the present invention provides for mechanisms by which this knowledge is shared. These mechanisms include saving the customization states of individual Dots, grouping of a

plurality of Dots and saving them to a Dot server, and emailing links to other users or installing these links in a web page. Additionally, the present invention provides for third parties to share collaborative efforts by posting such groupings and customizations on a Dot server for general availability.

[00182] In addition to grouping and customization, sharing information and events between Dots is provided for by the present invention. The Home Dot routes messages between Dots and the system. Messaging enables Dots to act upon one another such that an action or event that affects one Dot may also be routed to another Dot, thus affecting a change to it or an action to be taken by it. The resulting actions or changes of the individual Dots may not be the same. To support messaging generally, levels of restrictions are also provided for. It is therefore possible to control the scope of messages received by a Dot from other Dots according to membership or domains. Likewise, it is possible to control transmission of messages to other Dots. Therefore, the present invention provides for cooperative messaging and information sharing between Dots as enabled by Dot developers.

[00183] In one embodiment, the server is a high availability system comprising a plurality of individual servers functioning together on a server network. Such a configuration advantageously services a large number of simultaneously executing client Home Dots. Whereas the client application or Home Dot provides for those services surrounding enabled or instantiated Dots, the server network and its applications as embodied in a web site, java servlets, an RDBMS, Dot and Home Dot distribution support, provides for the development and distribution of Dots. Additionally, as the Home Dot performs the optional features of collecting statistics surrounding Dot usage

and posting these statistics to the server, the server may aggregate these statistics for reporting. According to one aspect of the invention, the server operating together with the Home Dot, may source or enable messages to specific Dots based upon real-time context of user interaction with Dots. This function enables, for example, real-time context based advertising. (See also the Client-Server Protocols section of Appendix B.)

METHOD OF DELIVERING DYNAMIC WEB DATA WITHOUT WEB BROWSER

[00184] With reference again to Fig. 6, according to one embodiment of the present invention, Home Dot application 200 enables users to collect Dots 120, 230, etc., organize those Dots into collections, manage the collections with organizational and workspace management functionality (e.g., categories, Snapshots, group-move), and easily share Dots, Dotpacks, and Snapshots with others. Also, the Home Dot application 200 implements and enables a Dot Messaging Architecture (DMA, discussed further below) providing messaging between Dots and the Dot server system.

[00185] When Dots are instantiated on a client machine, the Home Dot application 200 collects usage statistics (211, 212, 213, 214, 215) and keeps an event log (in XML format) that is intermittently sent to Dot application servers 153 and stored, for example as part of the Dot database 202 as use statistics 206. This enables the Dot server to track how the Home Dot application 200 and the Dots are being used and shared. In one embodiment this is implemented as a local MFC (Microsoft Foundation Class) application on the Windows platform, thus enabling rapid user response (no Internet delay for functional UI components). Home Dot application 200 functionality may also be provided across platforms (MAC O/S, Linux, unix, mobile, wap, etc.)

HOME DOT OPERATION

[00186] Each user of a Home Dot application 200 has a Home Dot application login account 205 that accesses (step 303 of Fig. 7) a personal user profile stored on a Dot server 153 that stores the last state 212 of the Home Dot application 200 along with which Dots a user has collected 213, and how the user has organized their collection according to categories, Snapshots or packs.

[00187] When the Home Dot application 200 is launched, it queries the network for configuration information, enables a user to login, retrieves the user's profile from the Dot application server 153, and restores the Home Dot application 200 to the last state that was stored to the application server 153.

[00188] The method used by Home Dot 200 to access remote configuration information (again, step 303 of Fig. 7) creates a very flexible application that can be configured to support different application looks, different login sequences, dynamically by session and for each for each user. The user profile retrieved at login 303 enables the application to be personalized for a user, and allows that user to access that personalized application state on different client computers or devices 199.

LAUNCHING THE HOME DOT APPLICATION

[00189] When the Home Dot application 200 is launched, it reads the registry on the client machine to find the location of a configuration file (session-config). The session-config (XML file) directs the Home Dot application 200 to an application server

using a URL as the server address that will handle its servlet requests. The URL points the Home Dot application 200 to a default graphic element (skin) and generic Dot graphic elements for controls such as the Title Bar 164 (Fig. 4), Bottom bar 166 (Fig. 4), etc. and it points to Dot definitions 213 for several default Dots, such as a Help Dot, Add New Dot, and Login Dot (i.e., System Dots that support the Home Dot application 200, as described further below).

[00190] For security, the session-config is served by a servlet method operating on the Dot application server 153 that only responds to authorized Home Dot applications 200. The session-config can also be served as a flat file from a standard web/local directory.

[00191] The session-config file contains a mechanism to redirect the Home Dot application 200 to another session-config file. This mechanism may look like:

<REDIRECT> = "URL" attribute:

When the Home Dot application 200 reads the redirect attribute, it ignores the current configuration (session-config file) and attempts to retrieve the configuration stored at the redirect URL. The Home Dot application 200 will not redirect if this tag is omitted, if the URL is empty, or if the URL is the same URL used to retrieve this configuration in the first place. (This last state is recursive; therefore if redirection were carried out, the two configuration files redirect to each other, resulting in an endless loop within the Home Dot application 200.)

[00192] The session-config file contains a mechanism to force or provide an option to upgrade the Home Dot application. This mechanism employs a version tracking, such as:

<VERSION> = "string" attribute:

This attribute is required and must match the version of the Home Dot application 200. According to one embodiment, if this attribute is omitted or differs from the Home Dot application's 200 version, the Home Dot application 200 will download the executable specified in the UPGRADE attribute and execute it. The mechanism for performing the upgrade may look something like the following:

<UPGRADE> = "URL" attribute:

This is used only if the VERSION attribute differs from the Home Dot application's 200 version. This URL specifies the location of an executable that will upgrade the Home Dot application. The Home Dot application 200 will quit, then run the upgrade executable automatically.

SYSTEM DOTS

[00193] According to one embodiment of the present invention three system-level Dots are provided with a Home Dot: the AddNew Dot; the Help Dot; and the Login Dot. Dot definitions for these System Dots are referenced in the session-config. System Dots are Dot definitions that are not explicitly listed in the Home Dot application 200 or a user's ALL-CONFIG, but are accessible via the Home Dot user interface.

[00194] The AddNew Dot enables users to access the Dot Index through the Home Dot application 200 and find new Dots and Snapshots to collect. The Help Dot contains help content for the Home Dot application 200.

[00195] The Login Dot is what first comes up when the Home Dot application 200 is launched. It enables the user to login to the Home Dot application 200.

SAMPLING DOTS -TRIAL DOTS

[00196] One feature of the present invention is the ability to provide a user with the option to try, or sample Dots. According to one implementation of this feature, if a user doesn't have a Home Dot application login account (or is not logged in), then the Home Dot application 200 is in trial mode. Dots can be sampled (by clicking on Dot links 321) but not kept.

KEEPING DOTS

[00197] A user may decide to keep or not keep a Dot. According to one embodiment, to keep a Dot, a KeepMe Dot is displayed with Dots that are sampled (unique to Dot developer or provider) that informs the user that a Home Dot application 200 login account is required to keep the Dots. The KeepMe Dot has a mechanism (link) that enables users to create a new Home Dot application 200 login account 205 and keep the Dots by adding them to the new user's Dot definitions 213 or user-profile 310 (Fig. 7).

USER LOG IN

[00198] Each Home Dot application user has a Home Dot application login account that accesses a personal user profile (stored server 153). When a user launches and logs in to the Home Dot application 200, it retrieves the user profile from server 153 and restores the Home Dot application 200 to the state in which the user left it, thus recovering their personal application experience. When the user logs out, their user profile is updated on server 153.

[00199] This mechanism enables different users to use the same client computer 199 and receive different application experiences or the same user to use different client computers or devices 199 and receive the same coherent experience. The application 200 restores itself to its last saved state no matter where a user may log in.

[00200] After the Home Dot application 200 retrieves its configuration information, it renders the Login Dot from the Dot definition specified in the SESSION-CONFIG. The Login Dot's Dot content asks the user for login and password, sends the login request to the Dot server servlet (also specified in the SESSION_CONFIG), and retrieves the user's profile required to restore the Home Dot application.

USER PROFILE (<ALL_CONFIG>)

[00201] A Home Dot user's profile holds the state of the user's Home Dot application 200 (size, position on the screen, which Dots were open) along with which Dots 213 the user has collected, and how the user has organized their collection (categories, Snapshots or packs). The profile is stored in an XML file called the user's

<ALL_CONFIG>. The ALL_CONFIG file contains a SHARE and a LASTSTATE element as described below. The Share may look something like the following:

ALL_CONFIG's <SHARE> attribute:

Since a Share can contain Dots and Snaphsots, the Home Dot 200 uses the SHARE XML DTD to represent the user's collection of Dots and Snapshots. The LASTSTATE element may look something like the following:

ALL_CONFIG's <LASTSTATE> attribute:

It contains a PRESET element 313 and a HOMEDOT 314 element (Fig. 7). The Home Dot 200 uses the PRESET XML DTD (Snapshot) to represent the Dot's that are left open. The Home Dot application element holds the position/size/state of the Home Dot itself. (See also the All_Config Example found in Appendix B.)

THE HOME DOT APPLICATION SERVER

[00202] The Dot application server 153 support much of the functionality of Home Dot application 200 (such as logging in/out, collecting, adding, and sharing Dots and Snapshots, Home Dot usages logging, etc.)

[00203] All communication 210 between Home Dot application 200 and the Dot application server 153 is secure and occurs over standard communication protocols (HTTPS). HTTP/HTTPS is chosen for the socket level client/server communication protocol because of its simplicity and more importantly, because most firewalls typically leave the default handling of the HTTP/HTTPS communication with the client.

[00204] The Home Dot 200 communicates to the server 153 via an HTTP request. The HTTP request URL contains an API call. Any API calls that require the uploading of data to the server place the data in the message body of the request. API calls that require uploading/downloading of data send/receive that data in XML format. All API calls are the end part of a complete URL that begins with:

http://<someservername>.DoDots.com/DoDots/

where <someservername> is variable and DoDots is an alias for the DoDots servlet/JSP servlet or servlets directory. Arguments to any of the methods are passed in as name value pairs in the query string portion or the URL.

[00205] The preferred embodiment of the Dot application server application that supports the Home Dot application 200 currently supports a number of servelt methods including the following:

AddUser

[00206] The adduser method is used to create a new Dot user account. Note that this is available as an end-user API to allow new users to add themselves rather than wait for an administrator to do it for them.

GetUser

[00207] The getuser method retrieves the user's own demographic data. This method supports the ability of the Home Dot application 200 to then allow updates to the user's demographic information using the setUser method (see below).

SetUser

[00208] The setUser method is used to update an existing user account. Note that this is available as an end-user API to allow existing users to update themselves rather than wait for an administrator to do it for them.

GetSession Config

[00209] The getsession Config method is used to retrieve general Home Dot application configuration information.

Set Password

[00210] The setPassword method provides a mechanism for the user to change their associated Dot server account password.

getMasterDotList

[00211] The getMasterDotlist method requests the list of all Dot templates known by the server 153. The server 153 returns a message body in predefined XML format (see the DOT_MASTERLIST DTD and example) of all possible Dots and their default template values. Note that included in each Dot element are a version stamp and dotclass ID's which allows the Home Dot application 200 to determine if it has the most up-to-date Dot template and Dot class binaries for that Dot. The Home Dot application 200 may then request the updated Dot template (see the getDotTemplate method) and/or dotclass binary zip file (see the getDotClassBinaries method).

setAllConfiq

[00212] The setAllConfig method sends, at 303, the entire body of user-specific client-side configuration information 310 including all Snapshots, Dots, general settings, etc. to the server 153 for persistent storage on behalf of the user. The user profile data 310 is sent as the message body in a predefined XML format (see the ALL-CONFIG DTD and example). The response returned by the server 153 indicates success or failure.

getAllConfig

[00213] The getAllConfig method retrieves, at 303, the last user-specific, server-side saved client side configuration information 310 (all Snapshots, Dots, general settings, etc) from the server 153. The data is sent as the message body in a predefined XML format (see the ALL-CONFIG DTD and example).

SetAllEvents

[00214] The setAllEvents method sends, at 307, usage information (211, 212, 213, 214, 215, Fig. 6) that has accumulated since the last call to setAllEvents to the server 153 for later use in statistical usage report generation (for DoDots's own use). The data is sent as the message body in a predefined XML format (see the ALL-EVENTS DTD and example). The response returned by the server indicates success or failure.

GetDotTemplate

[00215] The getDotTemplate method requests from the server 153 a specific Dot Template (Dot definition) from the Dot database. The server 153 returns the XML that describes the Dot. This method is called when the Home Dot application 200 has determined that it does not have the current version of the Dot and the user wants the most recent version. (NOTE: this includes when the user is downloading the Dot for the first time)

Addshare

[00216] The addshare method stores at 302 a specific shared Dot(s) or Snapshot(s). The server 153 takes the XML that was uploaded by the Home Dot application 200 for sharing and returns the unique id of the share. The Home Dot application 200 puts the XML stream to be shared in the request body.

GetShare

[00217] The getshare method requests from the server 153 a specific shared Dot(s) or Snapshot(s). The server 153 returns the XML that was stored for sharing by the original sending user. The format of the returned XML stream is dependent on what has been shared.

CACHING LAYER

[00218] Returning to Fig. 6, the Home Dot application 200 may advantageously implement a caching layer 219 between its network requests and the network 210. The

Home Dot application 200 sends network requests to the caching layer and the caching layer is responsible for completing those requests (retrying if necessary).

[00219] This is used in the event that the Dot application server 153 does not respond. If a user is attempting to log in and the server 153 does not respond, then the Home Dot application 200 logs in using a locally cached <ALL-CONFIG> (the last written user application state can be saved in the caching layer 219). If a user attempts to log out and the server 153 does not respond, then the caching layer 219 retries at a later time to write the logout application state to the server 153.

ADD NEW DOTS/SNAPSHOTS (PACKS)

[00220] To get a Dot and invoke it – that is, turn it on – the Home Dot application 200 requires the Dot's definition (XML file with the information necessary to instantiate a Dot and point it to Internet content). With reference again to Fig. 7, a user collects Dots from multiple sources: by clicking on Dot links 321 (Internet link to a Dot's Dot definition) and/or by receiving a Share 320 (Dots and Snapshots shared from other users). In both cases, the Dot definitions for the Dots involved are hosted and served by a Dot application server 153.

[00221] Users can find Dots (Dot links) in the Dot server 153 DotIndex 204 (online Database of Dots via a web browser or the AddNew Dot) and/or promoted on a content provider server 155, e.g., via a web site. When a user clicks on a DotLink 321 and the Home Dot application 200 is installed, the Home Dot application 200 retrieves the Dot definition that the DotLink 321 points to, adds it to the current user's ALL-CONFIG file

311 of user profile 310, and turns the Dot on 324. The Dot instantiates the UI and begins filling it with the Dot content (Internet content) as defined in the Dot definition.

[00222] Once a user receives a Dot, the Home Dot application 200 saves the Dot's definition as part of the user's ALL-CONFIG file 311. Because a Dot definition becomes part of a user profile 310, it can be modified by use e.g., its default TitleBar image 132 may be changed or its WebConduit control may be navigated to a different URL using DMA messages. The Dot will pick up where it left off next time it is turned on.

[00223] Dots can also be received in the form of Shares. A Share 320 is a XML file that represents a collection of one or more Dots and/or one or more Snapshots. A Share 320 may be shared, for example by attaching a Share Link 320 to a standard email message. When a user receives an emailed Share Link 320 from another user and clicks on the Share Link 320 in the email:

- The Home Dot application 200 retrieves the share XML file from the Dot application server 153 using the getshare servlet method to which the Share Link 320 points.
- The Home Dot application 200 parses the share package and adds the new Dots and Snapshots to the Share recipient's ALL-CONFIG 311. The Share recipient can now turn on any Dot and Snapshot received as part of the share.

[00224] According to one embodiment of the present invention, every Dot that a user gets is added to and becomes part of the user's ALL-CONFIG 311 and becomes accessible to the user anywhere they can login to a Home Dot application 200.

According to another embodiment, a user is provided with the option to keep or discard a sampled Dot prior to adding it the user's ALL-CONFIG 311.

[00225] If the Home Dot application 200 is not installed on a client computer 199 when a user first attempts to get/receive Dots, then the Home Dot application 200 is downloaded and installed with the first Dots that are received. From that point forward, the client machine 199 is Dot-enabled and the user is not required to download and install the Home Dot 200 again (subject to updates). This method removes the alternative approach known today in the art which is to download a custom client application from each company's web server 105 that is visited.

[00226] Once a client machine 199 is Dot-enabled, (i.e. the Home Dot application 200 technology installed), then every time that a user clicks on a Dot link 321, the Dot 120 pops up immediately (faster than it would take to load a small web page). Rather than download and install software for different Dots, only the Dot definitions 102 which are packaged web readable content is collected.

DOT CATEGORIES

[00227] The Home Dot application 200 enables users to organize Dots that they have collected (in their ALL-CONFIG 311) by categories. A Dot can be a member of more than one category. Alternatively, a Dot is not required to be categorized (i.e., set attribute categorized = uncategorized). The Home Dot application 200 enables the user to Add/Remove/Rename categories and edit a category's contents (those Dots that are

members of that category). Categories may also be assigned by the Dot creator (which may or may not be overwritten.)

[00228] In the preferred embodiment, Dots keep track of the categories to which they are members (e.g., there is no master category list). The categories to which a Dot belongs are added to the Dot's definition (in the user's ALL-CONFIG 311).

[00229] The Home Dot application 200 has one unique category: the ALL MY DOTS category (users cannot rename or remove this category). This category contains all the Dots that the user currently has in their collection (in their ALL-CONFIG 311). Removing Dots from the ALL MY DOTS category removes it from ALL-CONFIG 311. A user can duplicate a Dot from within the ALL MY DOTS category in the event they want two of the same Dot (e.g., 2 stock watching Dots - one for monitoring a first security, and the other for tracking a second security).

MANAGING DOTS

[00230] The Home Dot application 200 provides for several features enabling visually organizing, collecting, and working with Dots 102 individually and as a system. Referring to Figs 12A, 12B, and 12C, a series of drawings depicting a user interface 600 for the organization of Dots on a computer desktop is shown.

[00231] To improve ease of use when working with Dots in groups, the Home Dot application 200 enables users to capture an image, or Snapshot, of a workspace that they have defined with Dots. Such Snapshots may include, for example, which Dots are

on and where they are positioned on a display screen 656. Users can instantly recall these Snapshots to restore the previously defined set of Dots to their captured locations on screen 656.

[00232] Snapshots can be created to support different work tasks (e.g., morning news pack, web development pack), different user groups (e.g., small business pack, runners health pack, school study pack), or different activities (e.g., day-trading, dream team sports tracking). Within a Snapshot may be user-created Share Packs 659 (groupings) of Dots (created, for example, using Share Links 320). In addition, Dot developers can create and publish Packs, which are groups of Dots designed to work together or which may be of similar/related interested to a user, and online content providers can offer their users pre-made Packs.

[00233] Users can easily and quickly create and configure/reconfigure their own aggregation of content and functionality as Dots, thus providing a user-aggregated content/application system. This is significantly different than current Internet functions of offering users "My-" versions of a full-screen Internet site in which the choice of content, arrangement, presentation style, etc. are quite limited.

[00234] Dots may be aggregated together and manipulated as a block. Blocks are defined as linear clusters of Dots (snapped together vertically or horizontally). An example of a group 659 of Dots 647, 649, 651 not in a block is shown in Fig. 12A. That is, in Fig. 12A the group 659 of Dots are not aligned with one another with reference to either a horizontal or vertical axis. Two examples of the Dots 647, 649, 651 comprising group 659 arranged in a blocks are shown in Figs. 12B and 12C, respectively.

[00235] Blocks of Dots have an orientation: vertical (Dots snapped to each other in a vertical column as in Fig. 12B) or horizontal (Dots snapped to each other in a horizontal row as in Fig. 12C). In one embodiment, the Home Dot application 200 or Dots (647, 649, or 651) expose a UI mechanism (e.g., CTRL+O, see slamming) to enable users to change the orientation of Blocks of Dots.

[00236] Blocks of Dots can have a justification. When a block of Dots are "justified", they share a common edge such that all edges on one side of the Dots are lined up. For example, a vertical block of Dots all snapped toward the right side of the screen 653 is right justified as shown in Fig. 12B. In one possible embodiment, the Home Dot application 200 or the Dots exposes a UI mechanism (e.g., SHIFT+CTRL, CTRL+J, see slamming) to enable users to change the justification of Blocks of Dots (left, center, right).

[00237] Slamming blocks of Dots against screen edges (653, 655) or other window edges is used as a mechanism to alter the justification and/or orientation of a Block of Dots. For example, a user may slam a horizontal block against the left edge of the screen and the Block's orientation could swing vertical and justified to the left with all Dots snapped to the left of the screen. Likewise, a horizontal block that is bottom justified may be slammed against the top edge 655 of the screen changing it to a top justified Block.

[00238] One feature provided by an embodiment of the present invention to assist a user with the organization and presentation of Dots is the snap feature. A Dot (649 for example) “snaps” to other Dots (647 and 651 for example), other windows (not shown), and screen boundaries (edges) 653, 655. When Dots 120 are dragged (moved) near an

edge (653 or 655), a magnetism behavior is exhibited and the Dot 649 accelerates towards and "snaps" to that edge (653 or 655). The present invention provides for a magnetic gap 658 such that even when Dots are snapped to edges, there still exists a gap (~5 pixels). This gap is supported so that the user may easily visually recognize independent Dots.

[00239] The snapping feature simplifies the task for users to quickly and neatly align Dots. (See Figs. 12B and 12C). When Dots (647, 649, and 651) are snapped together and a Dot is collapsed or resized, then a Dot that is snapped to another Dot can move accordingly; for example, staying snapped or not, according to user preference.

[00240] The user interface of the present invention supports the movement of Dots (647, 649, or 651) in clusters. All Dots (647, 649, or 651) that share an edge (snapped together = cluster/group) can be grabbed and moved as a group 659 (which may, but need not be, a block).

[00241] The present invention teaches multiple methods of selecting a cluster of Dots 659 (as opposed to a single Dot 651 for example). The simplest method comprises of pressing the CTRL key before grabbing a member Dot (any one of 647, 649, or 651) of the cluster 659. This method selects the entire cluster and moves all Dots 120 as one unit.

[00242] Another way is to change the user's selection, that is which Dots (647, 649, or 651) in the cluster 659 are selected for moving, by the number of times a user clicks before grabbing a member Dot (647, 649, or 651) of the cluster 659. For example:

- 0 clicks before grabbing a member Dot (647, 649, or 651) selects and moves the entire cluster 659 of Dots.
- 1 click before grabbing a member Dot (647, 649, or 651) selects and moves just the member Dot.
- Additional clicks could select all vertical, all horizontal, etc.

[00243] The present invention provides for a unique method of indicating which Dots (647, 649, 651) in a cluster 659 are selected (for a group action such as move, or minimize). When multiple Dots are selected (by either method: CTRL+Select or Click+Select), a halo 661 appears around the selected Dots. In one embodiment halo 661 (shown only in Fig. 12A) is a contrastingly shaded or brightly colored line (~3 pixels wide) floating around the outer perimeter edges of the Dots selected (647, 649, 651) in a cluster 659. The halo remains visible as the Dots (647, 649, 651) are moved.

DOT SHARING

[00244] The Home Dot application 200 provides methods for users to easily and quickly Share the Dots that they have collected and the Snapshots that they have created with others. An exemplary delivery mechanism is email. The user's default mail client application is used (a user can use their existing address book and add a detailed message); a web-based mail service extended through the Home Dot application 200 or Dots may also be used. To share and convey shared Dots or Snapshots in an email, a

Share Link 320 is required (an Internet link that points to stored Share data on the Dot application server 153).

[00245] When a user sends a Share or Snapshots to another user:

1) A Share XML file 302 is constructed employing the shared Dots and Snapshots from the sharing user's ALL-CONFIG 311.

2) The Share XML file 302 is stored in Dot database 202 on Dot application server 153 in exchange for a unique shareID (using the addshare servlet method).

3) An email is constructed with a Sharelink 301 (an Internet link that points to the stored Share) and placed in a new email using the user's default mail client.

[00246] When a user receives a Share of Dots/Snapshots from another user and clicks on the ShareLink 320 in the email:

1) The recipient's Home Dot application 200 retrieves the Share XML file from the Dot application server 153 (using the getshare servlet method) to which the Share Link 320 points.

2) The Home Dot application 200 parses the Share package and adds the new Dots and Snapshots to the Share recipient's ALL-CONFIG 311.

[00247] The Share recipient can now turn on any Dot and Snapshot received as part of the Share. Because the Share was constructed from Dot definitions that were

part of the Sharing user's ALL-CONFIG 311, the recipient receives the Dots just as the Sharing user had configured them at the time of building the Share.

PREFERRED EMBODIMENT OF CLIENT / SERVER SYSTEM

[00248] The client/server model 500 of the preferred embodiment is described to according to Fig. 13. Paramount for the successful implementation of a consumer or high volume system is the proper separation of responsibilities between Dot clients (501, 502, 503) and the Dot server system 555. The architecture presented herein supports the primary operations of Dot distribution, client installation, use statistics collection, as well as Dot developer activities. These operations, as described above, are supported in part by the XML structure and calls as listed in the attached appendices A and B. It will be appreciated by one skilled in the art that the list is not exhaustive but descriptive of an implementation of certain features of the present invention.

[00249] The Dot server system 555 which is required for support of the general Dot functionality provides for persistent storage and retrieval of configuration and statistical (usage) information and for intelligent software upgrade service for the Dot clients 501, 502, 503. Users are required to logon to the Dot server system 555 with a username and password to access this information. The server 555 also provides for generating statistical analysis reports. The server 555 is used to provide small, persistent data storage areas for third-party Dots. The server 555 may be maintained by a single administration entity and does not require third-party Dot providers for its support. The content contained by the Dot however, may be provided by the third party

developers, with the initial content optionally being supplied by existing or re-purposed web pages served by the third party web servers. An administrative interface is therefore provided according to the present invention which is used by the administration entity to maintain the software upgrade information, manage users and generate statistical usage reports.

[00250] The software portion of Dot server system 555 consists of several architectural components, including:

[00251] Web servers (505, 507, 509), Servlet JSP Engines (506, 508, 510) which maintain a Java based XML Parser with SAX (Simple API for XML) and DOM (Document Object Model) interfaces, all of which share a common file system, and at least one Relational Database Management System (RDBMS) Server 513 which supports the RDBMS file system 514.

[00252] According to one embodiment of the present invention, there are no specific operating systems, application server, or database server constraints placed on the server 555 (e.g. the operating system (O/S) may be NT, Solaris, HP-UX, Linux or FreeBSD, or any other viable server O/S. The RDBMS may be Oracle, Sybase, Informix, SQLServer etc.).

[00253] The client and server transmit and receive data on the internet 504 in XML format over standard HTTP/HTTPS. An XML parser residing on the Servlet JSP Engine (506, 508, 510) assists in deconstructing and reconstructing the XML into and out of the RDBMS Server 513 when the XML stream contains information that is needed for report generation. XML parsers with DOM and SAX interfaces are freely available for

most major programming languages. HTTP/HTTPS, and therefore a web server (505, 507, 509), is chosen for the socket level client/server communication protocol because of its simplicity and more importantly, because most firewalls typically leave the default TCP ports for HTTP/HTTPS (ports 80 and 443 respectively) unblocked.

[00254] The Web servers (505, 507, 509) provide the default handling of the HTTP/HTTPS communication with the Dot client 501, 502, 503. The Servlet JSP Engine (506, 508, 510) functions as an in-process extension of the Web servers (505, 507, 509) and provides the infrastructure for the application logic layer (servlets) and the presentation layer (Java Server pages). Servlet/JSP is chosen over the architecturally similar ASP due to consideration in performance, maintenance costs, and the variety of O/S and application server vendor choices.

[00255] The persistent storage mechanism for everything except the binary software components (client component updates) is Relational Database Management System (RDBMS) 513. The binary software component for client updates are stored in the file system 514 with a pointer (full pathname) which is stored in the database to each component file. The binary software components are not stored directly in the RDBMS in so as to improve performance.

[00256] Since the configuration data need not be manipulated or reported on by the server, the configuration data is stored directly in the RDBMS 513 as a small text file, in the form by which it is transmitted from the client 501, 502, 503. The configuration data is not deconstructed and reconstructed into its constituent parts by the XML parser on the servers (505, 507, 509). The statistical data is used to generate reports on the server-side by a servlet JSP-based administrative interface. SQL queries are used for

statistical report generation to provide simplicity and flexibility. Therefore, a single statistical data XML stream is deconstructed upon receipt by an XML parser residing on the Servlet JSP Engine (506, 508, 510) and stored as discrete RDBMS columns (the entire stream instance is the RDBMS row) rather than storing the entire stream in a single text column.

DEVELOPMENT AND TESTING OF DOTS

[00257] It is possible to provide for the development and testing of new Dots, Categories, Packs, etc. in a physically separate system that is a superset (duplicate with additional testing support) of the production system 500. The development and testing (dev/test) system has additional server methods and interfaces, not present in the production system 500 which requires higher security and simplified maintenance, to facilitate the development and testing process. The interfaces to these additional server methods are HTML/JSP pages to allow for easy accommodation of new, geographically distributed Dot content providers.

[00258] The development and test system allows the Dot content providers to easily build and test new Dots and Dot Packs. When tested to their satisfaction, the Dot content providers can then, through the interface, submit their Dots/packs for inclusion in the production system. The Dot administrator will be able to periodically run a report to see which Dots/packs were submitted. The Dot administrator is then able to decide whether or not to approve a Dot/pack for import into the production system. Migration of an approved Dot/pack will involve exporting the appropriate data from the RDBMS on

the development and test system, moving the export file from the development and test system and importing the export fie into the production system.

DOT MESSAGING ARCHITECTURE (DMA)

[00259] Dots and the Home Dot application have a messaging architecture (Dot Messaging Architecture - DMA) that enables elements of the system including Dots, controls within Dots, and the Home Dot application, to communicate with one another. This enables these elements to exchange information, request actions or functionality, and respond to system, element, or content events.

[00260] Fig. 14 illustrates the message routing paths and elements 700 of the Dot Messaging Architecture. The Dot Messaging Architecture (DMA) has a messaging addressing and routing scheme, defined messages, and an extensible message format (as defined in further detail below) that provides each component with access to component, application, and system features and true application behavior. Also, Dot content has access to the application rendering system within the Home Dot 200 and other Dots (711, 751, 761) via the DMA.

[00261] All elements of the system can send and receive (via paths 701, 702, and 703) DMA messages. In this embodiment, these elements fall into three groups: the Dots (711, 751, 761); the Controls in the Dot's control space including the WebConduit control (714, 754, 764) and base controls that encompass menu controls and window operations controls; and the system control 780 embodied within the Home Dot application 200.

[00262] The DMA enables controls to send and receive messages. Controls can exchange messages with other elements in the same Dot (controls in the control space, Dot frame, System) or in a different Dot (the addressing scheme supports addressing elements in other Dots. All Dot controls share a set of common messages. They also can provide messages that are unique to that control (see WebConduit Control). Common control messages include messages such as:

#show

#hide

#get-width

#get-height

#get-size

#is-open

#get-address

These messages query/effect properties/methods of a control within its Dot's control space such as layout, size, etc.

[00263] The Web Conduit control (714, 754, 764) supports additional messages (in addition to the common control messages explained previously). These unique Web Conduit messages enable other elements in the Dot System (Controls, Dot frames, Home Dot application 200) to interact with WebConduit functionality (request actions or

functions, and respond to events). Messages unique to the WebConduit control which is a wrapped Microsoft IE web control in the preferred embodiment, include:

##<any javascript>

#navigate.

[00264] One of the most significant features of the WebConduit control is that DMA enables messages to flow IN and OUT of standard HTML rendered within a control. The preferred embodiment currently extends DHTML and javascript to send and respond to DMA messages. The present invention supports SendMessage (a synchronous method which is used if return result is required) and PostMessage (an asynchronous method in which no return result required) methods that can be called using a window.external.<method> call from DHTML in the Web Conduit control (714, 754, 764).

[00265] The preferred embodiment of the message format (explained in more detail in the following sections) allows for two types of messages to be sent IN and OUT of HTML with respect to the WebConduit control. Specific messages and functions can be called (e.g., #navigate) that cause a WebConduit to perform a specific action or function. In addition, any javascript (e.g., ##<any javascript>) can be called within a WebConduit's document as well.

[00266] This provides the messaging architecture with exceptional flexibility and extensibility in which data can be passed, functions can be called, and variables can be set. Integrating DMA with standard Web content by enabling DMA messages to call into

HTML and for DMA messages to be initiated from HTML within the WebConduit control is the basis that enables Dots to exhibit true application behavior.

[00267] Any DMA message that is defined can be sent or called from DHTML. This, in conjunction with the application logic capability that is provided by javascript (and other HTML scripting languages), provides the application media development environment (which includes application development platform and language). A Dot developer can thus author a new Dot application by developing web content (HTML, GIF files, etc.) and by packaging that content in a Dot Definition, eliminating the need for compilers and consequently, downloading executables. Therefore, if a client device 199 has been Dot-enabled (the Home Dot application 200 is installed) then that device can instantaneously view, open, run Dots as well as modify and save their configurations.

[00268] DMA messages can be sent to and received from a Dot. This enables elements of the system that can send and receive DMA messages to interact with a Dot. Elements of a Dot's definition can be accessed/modified using Dot messages. Examples of Dot Properties / Dot methods that can be accessed and modified via the DMA include:

#set-title

#get-title

#set-size <width> <height>

#is-open

#close

#collapse

#uncollapse

#set-title-images <up-URL> <down-url> <over-url> <inactive-url>

[00269] Since a message can originate from DHTML content which is rendered in the Web Conduit control as Dot content, standard web content when rendered in a Dot can therefore access properties and behaviors of its packaging (the Dot). Internet content can therefore do such things as modify the size of the Dot that is rendering it. It can move it or collapse it.

[00270] The present invention therefore enables properties and behaviors to be tied to and between any Dot content event, even outside of a Dot affecting another Dot (e.g., an internet content (DHTML) mouse-over event can change the size and position of another Dot, etc.)

[00271] Most of the DMA examples thus presented are of other elements sending messages to the Dot frame (711 for example). An example of a Dot frame 711 sending messages can be seen in the case of the menu control 712 (discussed further below). The Dot frame 711 may also send messages (as can the menu control 712) based upon the occurrence of certain events such as Dot-moving, Dot-collapsed/expanded, Dot-infocus/inactive, etc.

[00272] The preferred embodiment has the menu control 712 implemented as part of the Dot Frame 711. Menu control 712 entries are given/tied-to actions using the

DMA. Each menu entry may consist of, inter alia, a text-title, an icon, a tooltip, an ID, and an action. The action is simply a DMA message that has a recipient specified address. Dot menu control 712 items are defined as part of a Dot definition.

[00273] When a menu entry within a menu control 712 is selected by a user, the specified Dot Message is sent to the specified recipient (DMA address). This illustrates an example of the true application behavior that is exhibited by Dot Content having access to DMA.

[00274] As with the functionality described in the previous sections, the following are examples of types of additional application behaviors that are possible:

- A menu control 712 entry (e.g., refresh) can send a message (to refresh) to a Web Conduit control and cause an action (e.g., refresh content).

- A menu control 712 entry can send a message to the Dot (itself) and cause it to collapse, or resize, or exit.

- A menu control 712 entry can call any javascript (##<any javascript>) in the HTML of Dot content rendered in the same Dot or a different Dot to set variables, change images, call functions, etc.

[00275] DMA messages can also be sent to and received (701, 702, 703) from the system (720) – the functional layer above and between individual Dots. Some aspects for which the system is responsible include DMA message routing, adding, removing, opening, closing Dots, etc. In the preferred embodiment, the system includes

the Home Dot application 200 or equivalent Dot-rendering and Dot-management client application.

[00276] Examples of system functions and behaviors that can be accessed and called using DMA messages include:

#refresh

#install-dot <dot-url>

#have-dot <dot-address>

#delete-dot <dot-address>

#quit

#save-to-server

#get-screen-width

#get-screen-height

#close-all-dots

#open-preset <preset-name>

#take-preset <preset-name>

#get-dot-ids <dot-address>

[00277] Messages can be sent to/from controls (WebConduit control – in and out of HTML), to and from the Dot (DotFrame - menu control 712, Titlebar 713, bottom bar

717, flexible Dot Definition), to and from the system (Home Dot application 200 – open and close Dots, system variables and data). The DMA addressing scheme also provides for messages to be sent to any Dot, to any control in any Dot, to any HTML, in any control, in any Dot. This enables Dots to work together as an application system, enables Dot developers to share functionality and leverage and build on the functionality of other Dots.

[00278] In the preferred embodiment, a DMA message has two components: a recipient address and the message body itself. Both are represented as strings. The addressing scheme is explained in the next section.

[00279] The body of a DMA messages is, at its simplest, a text string which may represent any javascript, for example, sent to a Web Conduit control. For defined messages, there is a method element to define the function/behavior call/request [e.g., #set-size] followed by arguments if the method element requires them (e.g., height in DotUnits; width in DotUnits).

[00280] The present invention provides for two functions that enable messages to be generated from within DHTML in the WebConduit control: SendMessage and PostMessage. SendMessage, which is synchronous, is used if a return value is required. PostMessage, which is asynchronous, is used otherwise.

[00281] Below are examples of messages generated with DHTML within the WebConduit control:

window.external.PostMessage ("#.:", **"#set-position 350 500")**

This message is sent to a Dot and causes it to move to a new screen position, for example 350x500 pixels.

window.external.SendMessage ("#system, "#get-screen-width")

This message asks the system for the current screen's width in pixels.

[00282] Messages are routed according to three pieces of information: Domain, Dot Specifier, Control Specifier.

[00283] One of the ways that a Dot is identified is by a Domain. In the preferred embodiment, the Domain is the same as a Dot provider's ID (developer ID). Generally this is a unique identifier for each company or developer and is specified in a Dot's definition.

[00284] Dots in the same domain, by default, can communicate to one another without explicitly specifying the domain in the address. When no messaging access restrictions are placed on addressing a Dot according to its domain (by default there are restrictions), then a Dot can also send messages to another Dot belonging to a different domain by explicitly addressing that Dot by its domain and Dot specifier.

[00285] Dots are further identified with a kind attribute as a part of the Dot Definition, and by an ID attribute. The ID is volatile and is not typically hard-coded into DHTML scripts. The addressing scheme allows for a Dot to be specified by explicitly referencing or querying a Dot's kind or ID identifier attribute.

[00286] Similarly, controls are identified by kind and by ID (also a part of the Dot Definition). Controls can also be specified by explicitly referencing or querying its kind or ID.

[00287] In the preferred embodiment, there are several permitted forms for the address of a message recipient. The fundamental one is:

#<dot specifier>:<control specifier>

Other accepted address forms are:

#<domain>:<dot specifier>:<control specifier>
#<domain>:<dot kind>:<dot id>:<control kind>:<control id>
#system

If an address does not match any of these forms, the address defaults to #system.

[00288] Specifiers have four different forms: The first form specifies the unique ID of the Dot / control / domain in question. An example of this first form is:

<specifier> := <ID>

[00289] The second form allows the sender to address a message to the closest matching recipient by some form of search criteria. Multiple Dots or controls might be of the same kind, enabling broadcasting a message to these elements. An example of this second form is:

<specifier> := <kind><#search criteria>

Search criteria can be one of:

<search criteria> := any
<search criteria> := open
<search criteria> := closed

Controls that are hidden are considered closed, and controls that are visible are considered open.

[00290] The third form enables reference to a specific Dot or control, allowing messages to be sent within a Dot. If a particular control is specified, then it must be specifically referenced in the Dot. An example of this third form is:

<specifier> := dot

[00291] The final form is specifically for the control specifier. If a message is to be directed to a Dot and not a control, the control specifier must be empty. An example of this last form is:

<specifier> :=

[00292] The current embodiment supports messages to a specific recipient: the addressing/routing scheme could support messages addressed to multiple simultaneous recipients (broadcast). Similarly, Dots can address Dots on the same platform or client (computer or device); the addressing or routing scheme may also support messages addressed to Dots/Controls/Home Dot applications 200 on other devices or by user. The Home Dot application 200 routes messages sent between Dots (711, 751, 761) and resolves addressing queries (e.g., address: "#A#Any:" = first Dot of kind "A" found in the Home Dot application 200).

[00293] Since the Home Dot application 200 routes messages between Dots (711, 751, 761), it can allow or restrict Dots from addressing and sending messages to other Dots outside their own domain (the Home Dot application 200 could also restrict

messages to within the same Dot). For example, Dot2 (751) is a member of domain B (750) as is Dot 3 (761), whereas Dot 1 (711) is a member of Domain A. Home Dot 200 can permit or deny messaging between Dot 1 (711) and Dots 2 and 3 (751, 761) and vice versa.

[00294] The Home Dot application 200 acts to enforce the access rights to and between published messages built on the DMA API. In one embodiment, the Home Dot application 200 accesses a database of published message methods implemented by Dot Developers and restricts/allows messages to pass based on access criteria data posted to the data base.

[00295] For example, a Dot developer could specify 2 public functions, 2 functions with access restricted by partner (Domain 710 or 750 for example), and 2 functions with access restricted by Dot address. The Home Dot application 200 may allow or restrict messages to be sent to one Dot from other Dots according to access criteria specified by the Dot developer.

[00296] The Home Dot application 200 also responds to messages sent to #system. Access to system features/functions/behaviors is one aspect of the present invention that enables extensibility of the Home Dot application system.

[00297] System messages include:

#REFRESH - Refreshes the user's ALL-CONFIG 311.

#INSTALL-DOT<DOT-URL> - Adds the specified Dot to the user's Home Dot application 200 (ALL-CONFIG) using the same mechanism that Dot definitions are added to the system.

#HAVE-DOT<DOT-ADDRESS> - Checks if the user currently has the specified Dot in their Home Dot application 200 (as part of the

ALL-CONFIG).

#DELETE-DOT<DOT-ADDRESS> - Removes the specified Dot from the Home Dot application 200 (and the user's ALL-CONFIG).

#QUIT - Quits the Home Dot application 200.

#SAVE-TO-SERVER - Saves the user's ALL-CONFIG to the Dot application server 153.

#GET-SCREEN-WIDTH - Returns the width of the screen in pixels.

#GET-SCREEN-HEIGHT - Returns the height of the screen in pixels.

#CLOSE-ALL-DOTS - Closes all open Dots.

#OPEN-PRESET<PRESET-NAME> - Opens the specified user's Snapshot.

#TAKE-PRESET <PRESET-NAME> - Capture a Snapshot.

#GETDOT-IDS <DOT-ADDRESS> - Returns the DotID of the specified Dot.

STATISTICS COLLECTION/ANALYSIS

[00298] The Home Dot application/Dot system and method of collecting use statistics from Home Dot applications (and application servers) enables the present invention to build and query a multidimensional use-profiling database. Because Dots are used in groups and used more often for longer periods of time than web pages/sites, the present invention may collect real-time multidimensional use statistics 206 (according to which Dots are ON, for example together or simultaneously) that over time becomes a valuable multi-dimensional user behavior profiling database. The Dot server 153 collects use statistics 206 from its Home Dot application 200 on clients 199 and manages and tracks Home Dot application downloads, access to Dot Index 204, etc.

[00299] Information on a Dots user can be monitored in a multi-dimensional fashion. Instead of classifying a user based solely on their demographic characteristics and linear use of the internet, the present invention enables tracking on an additional dimension. A user can be classified according to which Dots they use at the same time, instead of only how they navigate within an individual viewer (the browser). This user information can be packaged and sold to content providers so that they can better provide services to their users.

[00300] Because the present invention enables multi-dimensional profiling, a service may be provided by the operator of this system and its partners to customize advertisements and offerings to users in a more efficient and targeted manner. Tracking this profiling data in real-time allows the operator to tailor these offerings to users of specific Dots in a way that is not otherwise possible today. For example, one content provider partner can be informed that users of a certain Dot are also disproportionately

monitoring content about a specific topic through another Dot. This information is then used to target ads at the moment the peripheral interests of that content providers Dot users are known. The present invention enables this information to be tracked as a complete system. The system can be utilized to facilitate serving advertisements and offerings based on the information that it collects.

[00301] The Home Dot application 200 records application events in an XML log that intermittently gets uploaded to the Dot application server 153. Application events that are logged include the following (by timestamp and by session):

- When a Dot is opened and when it is closed (particularly, when Home Dot 200 is opened and closed)
- When a Dot is added from a Dot Template or a Share
- The number of times a user clicks through from a Dot to a full-screen web page (and to which URLs)
- The number of page views in a Dot-by-Dot session
- When and from which URL did a user download a Home Dot application 200

[00302] The following outlines the types of questions the use statistics of the present invention can answer regarding Home Dot application 200 and Dot use:

- Duration and frequency of opening Home Dot applications and Dots - How often is the Home Dot application 200/Dot used on average (optionally, by user group) during the parts of a day (e.g., morning)?

- Duration: What was the average amount of time that users leave the Home Dot application 200/Dot ON 324 during the day

- Distribution of Home Dot application 200 and Dots (Point of Distribution including Shares) - How many users have downloaded the Home Dot application during a set period of time? From which URL were they referenced?

- How many times has this Dot's DotTemplate been installed (from the DotIndex)?

- From which web site were users referred? How many times has the Dot been installed from a Share?

- Page views in Dots, Click-throughs/URL's - How does the page-view performance of a Dot compare to the comparable content on a full-screen web site?

- List the full-screen URLs most often clicked through to (in ranking order) from this Dot.

- Dots used in Groups - Which Dots are used most frequently together? Which Dots do users most often use with Dot.

[00303] The Home Dot application 200 intermittently sends its event logs to the Dot application server 153 using the setAllEvents servlet method. The Home Dot

application's events are logged and sent as an XML file in a format specified by the CALL-EVENTS.

[00304] Categorizing Dots and/or Dotcontent by "context keywords" (e.g., CNN Dot and FoxNews Dot = "News"; CBS Sportsline Dot = "Sports") enables the Home Dot application 200 to build a real-time (accessible via the DMA) multi-dimensional use context on-the-fly, based on which Dots the user currently has ON (e.g., assemble the keywords of the currently open Dots into a multi-dimensional keyword string). This highly resolved view of a user's behavior enables the Home Dot application 200 to source a very targeted offering (commerce opportunity or ad) and/or enable Dot developers to do the same. In one embodiment, the Home Dot application 200 supports a DMA message (pay to access) that provides Dot developers with access to this type of information (e.g., SendMessage "#system" " #get-use-context-string")

[00305] The Home Dot application 200 supports a developer toolkit service that sources ads targeted according to this multi-dimensional use context generated by the Home Dot application 200 (more targeted than currently possible with singular contexts such as text strings, e.g., searched on "toys" = serve a toy ad). The Home Dot application 200 and/or Dot application server 153 monitors /tracks, and handles incremental billing for all parties (e.g., anonymously).

VARIATIONS

[00306] Many variations on the above description are contemplated and within the scope of the present disclosure. For example, in an alternate embodiment, the Home

Dot application 200 interface is implemented entirely as Dot content served from Dot application server 153. Furthermore, the Home Dot application 200 itself may be packaged as a Dot. The Home Dot application Dot has special responsibilities and rights, but otherwise, it could be as much a Dot as any other Dot. This embodiment enables the application executable to be significantly smaller and the Home Dot application 200 UI to be significantly more flexible.

[00307] In yet another alternate embodiment, the Home Dot application 200 is implemented as a plug-in to the web browser.

[00308] In still another alternate embodiment, the Home Dot application 200 is implemented in java, thus enabling it to be more easily portable to other platforms.

[00309] Additionally, in another embodiment, a subset of the Home Dot application 200 functionality is implemented through the browser using pop-ups; this would be particularly valuable to mobile Home Dot application 200 users who don't always have easy access to a computer with the Home Dot application 200 installed.

[00310] The present invention enables the definition of an interface that groups Dots together from different content providers and offers them to end users as part of a unique system of content. Content from different internet companies can be made to interact with each other using aspects of the present invention provided for in the Dot messaging architecture (DMA). The Dot server 153 may therefore be provided with functionality to broker these relationships and facilitate this interaction in Internet content between companies and between Dot-enabled internet sites.

[00311] Because Dots can work together (via DMA and packs), the present invention enables companies or content providers to enable their Dots to work together. The present invention provides for another layer built upon the DMA API (application programming interface) that specifies how different kinds and types of Dots from different companies or developers communicate/work together. This layer is optionally open source so that a large portion of it is self-published by the Dot Developers themselves.

[00312] Dot Developers implement, specify, and publish in a database DMA message methods that other Dot Developers implement through calls made within their published Dots. These Dot developer methods may be aggregated and published for use in a database provided by the Home Dot publisher for example and sourced within a developer zone, or as part of a Dot Definition.

[00313] Dot developers may implement these DMA message methods as java script functions that other Dot Developers calls with the DMA's ##<any javascript> message. Dot Developers would need to be able to address a particular Dot's Web Conduit control that supports a page implementing the specified javascript function and address by domain if different from their domain. Restricted or variable permissions may be provided via a web server or defined in a Dot's Dot Definition to restrict/enable routing of messages.

[00314] A Dot Developer has the option to restrict access to certain methods according to some criteria e.g., public, partners, domain. Different types of restriction criteria schemes may be implemented. A Dot may send a message to another Dot and

query for methods accessible to it. An example of access levels for functions is provided below.

- Public functions - Dot Developer implements and publishes DMA message methods that any other Dot Developer could call (e.g., what-time-is-it for a Clock Dot).

- Reserved functions - Dot Developer implements, specifies, and publishes a set of DMA message methods that may be called only by certain types of Dot Developers (e.g. premier partner), specific Dot Developers, or specific Dots.

- Private functions within the same domain - A Dot Developer restricts access to certain DMA message methods that may only be implemented by other Dots in the same domain. The preferred embodiment provides for the option to either allow all messages to flow between domains, or to fully restrict messages to within a domain.

- Local Private functions within Dot - At the most restricted level, access is specified such that DMA messages may only be accessed from within the same Dot.

[00315] A published API that specifies ways for Dots to extend functionality to other Dots enables Dot Developers to leverage the development work and functionality of other Dots. As an example, a Dot Developer may implement a credit card processing Dot. In one embodiment, this Dot is implemented as a javascript function that checks the credit available on a credit card. This developer could specify this as a public function (in the Dot Definition for example) and publish this function in a Server Dot Index. Other Dot

Developers send a message to this Dot and call "check-credit", thus leveraging the development carried out from the first Dot Developer.

[00316] In the above example, the messaging architecture may provide revenue generation by way of monthly fees, per-access fees, etc. The Home Dot application 200 and/or Dot application servers could monitor/track and automatically handle incremental billing for all parties. By applying this method to the previous example, a Dot Developer who calls a credit card processing Dot for a credit check may be incrementally billed for each such call.

[00317] It will be appreciated that the methods, in the form of instructions having a sequence, syntax, and content, of the present invention may be stored on (or equivalently, in) any of a wide variety of computer-readable media such as magnetic media, optical media, magneto-optical media, electronic media (e.g., solid state ROM or RAM), etc., the form of which media not limiting the scope of the present invention. A data processor reading said media is operable to either transfer (e.g., download) said instructions thereto and then operate on those instructions, or cause said instructions to be read from the media and operate in response thereto. Furthermore, devices (e.g., a reader) for accessing the instructions on said media may be contained within or connected directly to the data processor residing on a device on which those instructions operate, or may be connected via a network or other communication pathway to said data processor.

[00318] While a plurality of preferred exemplary embodiments have been presented in the foregoing detailed description, it should be understood that a vast number of variations exist, and these preferred exemplary embodiments are merely

representative examples, and are not intended to limit the scope, applicability or configuration of the invention in any way. Rather, the foregoing detailed description provides those of ordinary skill in the art with a convenient guide for implementation of the invention, by way of examples, and contemplates that various changes in the functions and arrangements of the described embodiments may be made without departing from the spirit and scope of the invention defined by the claims thereto.

Appendix A

This appendix contains an exemplary definition of an XML structure used for Dots. Generally, there are four top XML structures that are read from URL/file. These are:

Session Configuration	<SESSION _CONFIG>
User configuration	<ALL_CONFIG>
shares	<SHARE>
Dot templates	<DOT>

These structures are described below. Some structures reuse other structure formats.

<DOT>

GLOBALID= "String"

Used only within <SHARE> tags. This GLOBALID must be unique with respect to other <DOT> tags in the <SHARE>.

DOMAIN = "string"

Unique label for the owning company of this Dot. In one embodiment, Dots are limited to communicating with Dots only from their own domain.

KIND= "String"

Helpful identifier for finding such a Dot from another Dot. Does not have to be unique.

<FRAME>

<TITLE>

TEXT = "string"

JUSTIFY= "LEFT"| "CENTER"|"RIGHT"

COLOR= "#XXXXXX"

PIXELWIDTH="integer"

Width in pixel units. Overrides WIDTH attribute.

PIXELHEIGHT=”integer”

Height in pixel units. Overrides HEIGHT attribute.

WIDTH=”Integer”

Width in Dot units. Default value is 1.

HEIGHT=“integer”

Height in Dot units. Default value is 1.

X=“interger” | “LEFT”| “CENTER”| “RIGHT”

Initial X position in screen coordinates. Default is center.

Y= “INTEGER”|”TOP”| “CENTER”| “BOTTOM|

Initial Y position in screen coordinates. Default is center.

FIXWIDTH=”TRUE" | "FALSE”

Default is false.

FIXWIDTH=”TRUE" | "FALSE”

Default is false.

BACKGROUNDCOLOR=”#XXXXXX”

Default is white.

<TITLEBARIMAGE>

JUSTIFY =”LEFT”| “CENTER”| “RIGHT”

TILELEFT=”integer”

TILERIGHT= “integer”

NORMAL= “url”

DOWN= “URL”

HOVER=”URL”

INACTIVE=”URL”

<BOTTOMARIMAGE>

JUSTIFY= “LEFT”| “CENTER”\”RIGHT”

TILELEFT= “integer”

TILERGHT =”integer”

NORMAL= “URL”

DOWN=”URL”

HOVER=”URL”

INACTIVE=”URL”

<MENU>

Contains zero or more <ITEM> tags.

<ITEM>

TITLE= “string”

TOOLTIP=”string”

ICON=”URL”

ID=” string”

Must be unique.

<ACTION>

RECIPIENT=”address”

MESSAGE=”string”

<CONTROL_LAYOUT>

Contains zero or more <CONTROL> tags.

WIDTH= “integer**”**

Divides control space into this many evenly spaced columns. Default is 1.

HEIGHT=”integer"

Divides control space into this many evenly spaced rows. Default is 1.

WIDTHSCALES=”TRUE” | "FALSE”

Default is true.

HEIGHTSCALES=”TRUE" | "FALSE"

Default is true.

<CONTROL>

See external definition.

<CATEGORIES>

Contains zero or more <CATEGORY> tags.

<CATEGORY>

Adds the Dot to this category. This is the only way categories are specified; i.e. there is nomaster category list.

NAME="string"

This is the name of the category.

<EVENTS>

<ONCLOSE>

Executes this action list on close.

<ACTION-LIST>

See external definition.

<CONTROL>

The only understood value for this is "Browser". Currently, any other value is overridden and "Browser" is assumed. All specifications should explicitly specify "Browser".

KIND=”string”

ID=”string”

Must be unique with other controls in this Dot.

LEFT=”integer”

X position in container units. Default is **0.**

TOP="integer”

Y position in container units. Default is **0.**

WIDTH=”integer”

Width in container units. Default is 1.

HEIGHT=” integer”

Height in container units. Default is 1.

URL=”URL”

This is read **if** and only **if** this control is of class "Browser". This is the URL to which this control navigates.

<PRESET>

Contains zero or more <DOT> tags.

TITLE="string"

<DOT>

This tag specification is specific to the <PRESET> tag, i.e. it is not the same tag as the full <DOT> specification described elsewhere.

GLOBALID=”string”

Used only within <SHARE> tags. This <SHARE> must contain a <DOT> with a matching GLOBALID.

X=”integer”| “LEFT”| “CENTER”| “RIGHT”

Y= “integer”| TOP”|”CENTER”|”BOTTOM”

<SHARE>

Contains zero or more <DOT> and <PRESET> tags. GLOBALID attributes are valid and consistent only within this share.

<DOT>

See external definition.

<PRESET>

See external definition.

<ACTION_LIST>

Contains zero or more <ACTION> tags.

<ACTION>

RECIPIENT=”address”

MESSAGE= “string”

<SESSION_CONFIG>

REDIRECT=”URL”

The client reading this will ignore this configuration and try again with the configuration stored at this URL. The client will not redirect if this tag is omitted, if the URL is empty, or if the URL is the same URL used to retrieve this configuration in the first place. This step is recursive, so if two configuration files are redirecting to each other, the client will get stuck in an endless loop.

VERSION="string”

This attribute is required and must match the version of the client. Currently, the client is compiled with the version "alpha:1”. If this attribute is omitted or differs from the client's version, the client will download the executable specified in the UPGRADE attribute and execute it.

UPGRADE="URL”

This is used only if the VERSION attribute differs from the client's version. This URL specifies the location of an executable that will upgrade the client's application. The client will quit, and then run the upgrade executable automatically.

<Methods>

Baseurl="url"

All the tags encapsulated here represent servlet methods. The URLs specified by the method are relative to this base URL.

<ADD_USER>

URL="URL"

<GET_USER>

URL="URL"

<SET_USER>

URL="URL"

<GET_SESSION_CONFIG>

URL="URL"

<SET_PASSWORD >

URL="URL"

<GET_MASTER_DOT_LIST>

URL="URL"

<SET_ALLCONFIG>

URL="URL"

<GET_ALL_CONFIG>

URL="URL"

<SET_ALL_STATS>

URL="URL"

<GET_DOT_TEMPLATE>

URL="URL"

<ADD_SHARE>

URL=" URL"

<GET_SHARE>

URL="URL”

<AUTH_TEST>

URL="URL"

<DO_REDIR>

URL=”URL”

<SKELETONS>

<HOMEDOT>

<IMAGES>

BASEURL="URL"

This is the **URL** of the root directory for where the HomeDots images are stored.

<DOT>

<IMAGES>

BASEURL=”URL”

This is the URL of the root directory for where the default images for Dots are stored.

<DOTS>

<ADD>

TEMPLATE=”URL”

This is the URL for the XML specification of the "add" Dot.

<HELP>

TEMPLATE="URL"

This is the URL for the XML specification of the "help" Dot.

<LOGIN>

TEMPLATE="URL"

This is the **URL** for the XML specification of the "login" Dot

<ALL_CONFIG>

<SHARE>

This contains all the installed Dots and presets in this users configuration.
See external definition.

<LASTSTATE>

<PRESET>

This preset uses the GLOBALID values in the above <SHARE>. This represents the last known position of the open Dots when the user last quit the application.

<HOMEDOT>

This represents the last position of the HomeDot when the user quit his application.

X="integer" |"left" |"center" |"right"

Y="integer" |"top" |center" |"bottom"

Appendix B

Client-Server Protocols

HTTP/HTTPS

HTTP/HTTPS is the chosen basic request-response protocol for client/server communications for Dots. HTTP/HTTP by default runs on port 80/443 and is typically left unblocked on the firewall by most network administrators (and by default by the firewall vendors). It is also the logical choice given that web servers and web client libraries are cheap and often freely available. This choice effectively removes the burden of creating and maintaining code to the low level TCP/IP socket connections as well as the basic request-response framework. For security reasons, it is suggested that all user-specific data exchanges be done through HTTPS (as opposed to HTTP).

XML

XML is the chosen data exchange format between the client and the server.

Session_Config DTD

```
<!ELEMENT session_config
        add_user,
        set_password,
        set_session_config,
        get_master_dot_list,
        get_dot_template,
        get_all_config,
        get_all_confg,
        set_all_events,
        dotdots_navigation
>

<!ELEMENT add_user EMPTY>
<!ATTLIST add_user
        url             CDATA                   #REQUIRED
>

<!ELEMENT set_password EMPTY>
<!ATTLIST set_password
        url             CDATA                   #REQUIRED
>
```

```
<!ELEMENT get_session_config EMPTY>
<!ATTLIST get_session_config
        url             CDATA                   #REQUIRED
>

<!ELEMENT get_master_dot_list EMPTY>
<!ATTLIST get_master_dot_list
        url             CDATA                   #REQUIRED
        refresh         CDATA                   #REQUIRED
>

<!ELEMENT get_dot_template EMPTY>
<!ATTLIST get_dot_template
        url             CDATA                   #REQUIRED
>

<!ELEMENT get_all_config EMPTY>
<!ATTLIST get_all_config
        url             CDATA                   #REQUIRED
>

<!ELEMENT set_all_config EMPTY>
```

```
<!ATTLIST set_all_config
        url             CDATA                   #REQUIRED
        refresh         CDATA                   #REQUIRED
>

<!ELEMENT set_all_events EMPTY>
<!ATTLIST set_all_events
        url             CDATA                   #REQUIRED
>

<!ELEMENT dodots_navigation EMPTY>
<!ATTLIST dodots_navigation
        url             CDATA                   #REQUIRED
>
```

Session_Config Example

```
<?xml version="1.0"?>
<!DOCTYPE SESSION_CONFIG SYSTEM "SESSION_CONFIG.DTD">
<SESSION_CONFIG>
        <ADD_USER
         url=http://scot:8080/servlet/DoDotsServer/addUser" />
        <SET_PASSWORD
         url=http://scot:8080/servlet/DoDotsServer/setPassword" />
        <GET_SESSION_CONFIG
         url=http://scot:8080/servlet/DoDotsServer/getSessionConfig" />
         refresh="1" />
        <GET_MASTER_DOT_LIST
         url=http://scot:8080/servlet/DoDotsServer/getMasterDotList" />
         refresh="-1" />
         <GET_DOT_TEMPLATE
         url=http://scot:8080/servlet/DoDotsServer/getDotTemplate" />
         refresh="1" />
        <GET_ALL_CONFIG
         url=http://scot:8080/servlet/DoDotsServer/getAllConfig" />
         refresh="600"/>
        <SET_ALL_EVENTS
         url=http://scot:8080/servlet/DoDotsServer/setAllEvents"
         refresh="600" />
        <DODOTS_NAVIGATION
         url=http://www.DoDots.com/" />
</SESSION_CONFIG>
```

User DTD

```
<!ELEMENT user EMPTY>
<!ATTLIST user
        uid             CDATA           #IMPLIED
        password        CDATA           #IMPLIED
        dpid            CDATA           #IMPLIED
        title           CDATA           #IMPLIED
        prefix          CDATA           #IMPLIED
        firstname       CDATA           #IMPLIED
        mi              CDATA           #IMPLIED
        lastname        CDATA           #IMPLIED
        suffix          CDATA           #IMPLIED
        email           CDATA           #IMPLIED
        street1         CDATA           #IMPLIED
        street2         CDATA           #IMPLIED
        city            CDATA           #IMPLIED
        state           CDATA           #IMPLIED
        country         CDATA           #IMPLIED
        birthdate       CDATA           #IMPLIED
        sex             CDATA           #IMPLIED
>
```

User Example

```
<?xml version="1.0" ?>
<GETDOCTYPE USER SYSTEM "USER.DTD">
<USER>
        uid ="joeblack"
        password ="morte"
        dpid ="321"
        title ="Chief Dot Developer"
        prefix ="Mr."
        firstname ="Joe"
        mi ="D"
        lastname        ="Black"
        suffix ="Sr."
        email ="reaper@otherside.org"
        street1 ="1 KickTheBucket Street"
        street2 =""
        city ="Mordor"
        state="DC"
        country=""
        birthdate=""
        sex="N"
/>
```

Dot_Master DTD

```
<!ELEMENT dot_master(
        dot+
        )
>
<!ATTLIST dot_master
>
<!ELEMENT dot EMPTY>
<!ATTLIST dot
        dtid            ID              #REQUIRED
        name            CDATA           #REQUIRED
        desc            CDATA           #IMPLIED
>
```

Dot_Master Example

```
<?xml version="1.0" ?>
<GETDOCTYPE DOT_MASTER SYSTEM "DOT_MASTER.DTD">
<DOT_MASTER>
        <DOT DTID="1" NAME="Scot's DoDots stock tracker" DESC="Tracks and
graphs the stock performance of the DoDots corporation"
        />
        <DOT DTID="32" NAME="ACME Wonder Dot" DESC="The most amazing
dot in the world.  This one does tricks like you've never seen before"
        />
<DOT DTID="33" NAME="ACME Wonder Dot version 2" DESC="The most
amazing Dot in the world.  This one actually works the way the first one was supposed
to."
        />
        <DOT DTID="40" NAME="Roadrunner's Coyote trap watcher" DESC="Up to
the minute alerts on new traps set by all coyotes within a 100 mile radius"
        />
</DOT_MASTER>
```

Dot_Template DTD

```
<!ELEMENT dot_template (
menu*,
        controls
)
>
<!ATTLIST dot
        uid                 ID                          #REQUIRED
        debug               (“TRUE”|”FALSE”)    “FALSE”
        type                (“ACTIVEX”|”JAVA”)  “ACTIVEX”
        class               CDATA                       #REQUIRED
        title               CDATA                       #REQUIRED
        titlebarimage       CDATA                       #REQUIRED
        bottombarimage      CDATA                       #REQUIRED
        width               CDATA                       #REQUIRED
        height              CDATA                       #REQUIRED
        resizable           (“TRUE”|”FALSE”)    “FALSE”
>
<!ELEMENT menu (
        menuitem+
        )
>
<!ATTLIST menu
        id      ID      #REQUIRED
>

<!ELEMENT controls (
        control+
         )
>
<!ATTLIST controls
        layouts         (“flow”             #IMPLIED “flow”
                        |”grid”
                        |”gridbag”)
>

<!ELEMENT menuitem EMPTY>
<!ATTLIST menuitem
        id              ID                          #REQUIRED
        title           CDATA                       #REQUIRED
        icon            CDATA                       #IMPLIED
        tooltip         CDATA                       #IMPLIED
        enabled         (“TRUE”|”FALSE”)            #IMPLIED “FALSE”
        action          CDATA                       #REQUIRED
```

```
>

<!ELEMENT control EMPTY>
<!ATTLIST control
        id              ID                      #REQUIRED
        type            (“ACTIVEX”|”JAVA”)      “ACTIVEX”
        class           CDATA                   #REQUIRED
        width           CDATA                   #REQUIRED
        height          CDATA                   #REQUIRED
        location        CDATA                   #REQUIRED
>
```

Dot_Template Example

```
<?xml version=”1.0”?
<!GETDOCTYPE DOT_TEMPLATE SYSTEM “DOT_TEMPLATE.DTD”>
<DOT_TEMPLATE
        DEBUG=”TRUE”
        TYPE=”ACTIVEX”
        CLASS=”12939-292939-93939-29292”
        TITLE=”Ebay”
        TITLEBARIMAGE=http://www.ebay.com/image/foo”
        BOTTOMBARIMAGE=”someurl”
        WIDTH=2
        HEIGHT=1
        RESIZABLE=”TRUE”
>
        <MENU>
                <MENUITEM
                        ID=”NEW_AUCTION_WINDOW”
                        TITLE=”New Auction Window”
                        ICON=”          http://www.ebay.com/images/new_auction.gif”
                        TOOLTIP=”Open up a new auction window to use”
                        ACTION=”someaction.exe”
                />
                <MENUITEM
                        ID=”DISPLAY_CLOSE”
                        TITLE=”Close display”
                        ICON=”          http://www.ebay.com/images/menuitem.gif”
                        TOOLTIP=”Close the display field”
                        ACTION=”someaction.exe
                />
        </MENU>
        <CONTROLS LAYOUT=”FLOW”>
                <CONTROL
                        ID=”SEARCH_FIELD”
```

```
                TYPE=”ACTIVEX”
                CLASS=”33333-1111111-222222-33333”
                WIDTH=”80”
                HEIGHT=”20”
                LOCATION=”TOP”
                URL=http://www.webster.com/searchField.html
        />
        <CONTROL
                ID=”RESULT_DISPLAY”
                TYPE=”ACTIVEX”
                CLASS=”33333-1111111-222222-33333”
                WIDTH=”80”
                HEIGHT=”100”
                LOCATION=”TOP”
                VISIBILITY=”FALSE”
        />
    </CONTROLS>
</DOT_TEMPLATE>
```

All_Config DTD

<!—DTD for the All_Config element used in the configuration of DoDots's Snapshot, block and dot objects -->

```
<!ELEMENTS all_config (
        Snapshot*
        )
>
<!ATTLIST all_config
>
<!ELEMENT Snapshot (
        block*,
        dot*
        )
>
<!ATTLIST Snapshot
        id      ID                      #REQUIRED
>

<!ELEMENT block(
        dot*
        )
>

<!ELEMENT dot (
        menu*,
        controls
        )
>
<!ATTLIST dot
        id              ID                      #REQUIRED
        debug           (“TRUE”|”FALSE”)        “FALSE”
        type            (“ACTIVEX”|”JAVA”)      “ACTIVEX”
        class           CDATA                   #REQUIRED
        title           CDATA                   #REQUIRED
        titlebarimage   CDATA                   #REQUIRED
        bottombarimage  CDATA                   #REQUIRED
        width           CDATA                   #REQUIRED
        height          CDATA                   #REQUIRED
        resizable       (“TRUE”|”FALSE”)        “FALSE”
```

```
<!ELEMENT menu (
        menuitem+
        )
>
<!ATTLIST menu
        id              ID                      #REQUIRED
>
<!ELEMENT controls (
        control+
        )
>
<!ATTLIST control
        layout          (“flow”                 #IMPLIED “flow”
                        |”grid”
                        |”gridbag”
>

<!ELEMENT menuitem EMPTY>
<!ATTLIST menuitem
        id              ID                              #REQUIRED
        type            (“ACTIVEX”|”JAVA”)              “ACTIVEX”
        class           CDATA                           #REQUIRED
        width           CDATA                           #REQUIRED
        height          CDATA                           #REQUIRED
        location        CDATA                           #REQUIRED
>
```

All_Config Example

```
<?xml version=”1.0”?>
<!DOCTYPE ALL_CONFIG SYSTEM “ALL_CONFIG.DTD”>
<ALL_CONFIG>
        <SNAPSHOT ID=”1”
                <DOT
                        DEBUG=”TRUE”
                        TYPE=”ACTIVEX”
                        CLASS=”12939-292939-93939-29292”
                        TITLE=”Ebay”
                        TITLEBARIMAGE=http://www.ebay.com/image/foo”
                        BOTTOMBARIMAGE=”someurl”
                        WIDTH=2
                        HEIGHT=1
                        RESIZABLE=”TRUE”
                >
                <MENU>
                        <MENUITEM
                                ID=”NEW_AUCTION_WINDOW”
```

```
                    TITLE="New Auction Window"
                    ICON="
        http://www.ebay.com/images/new_auction.gif"
                    TOOLTIP="Open up a new auction window to use"
                    ACTION="someaction.exe"
                />
                <MENUITEM
                    ID="DISPLAY_CLOSE"
                    TITLE="Close display"
                    ICON="      http://www.ebay.com/images/menuitem.gif"
                    TOOLTIP="Close the display field"
                    ACTION="someaction.exe
                />
            </MENU>
            <CONTROLS LAYOUT="FLOW">
                <CONTROL
                    ID="SEARCH_FIELD"
                    TYPE="ACTIVEX"
                    CLASS="33333-1111111-222222-33333"
                    WIDTH="80"
                    HEIGHT="20"
                    LOCATION="TOP"
                    URL=http://www.webster.com/searchField.html
                />
            <CONTROL
                    ID="RESULT_DISPLAY"
                    TYPE="ACTIVEX"
                    CLASS="33333-1111111-222222-33333"
                    WIDTH="80"
                    HEIGHT="100"
                    LOCATION="TOP"
                    VISIBILITY="FALSE"
                />
            </CONTROLS>
            </DOT >
        </SNAPSHOT>
</ALL_CONFIG>
```

All_Events DTD

```
<!ELEMENT dot_events
        dot_event*
>
<!ATTLIST dot_events
>

<!ELEMENT dot_events EMPTY>
<!ATTLIST dot_events
        deid        CDATA        #REQUIRED
        dtid        CDATA        #IMPLIED
        dpkid       CDATA        #IMPLIED
        dpid        CDATA        #IMPLIED
        start_time  CDATA        #REQUIRED
        end_time    CDATA        #IMPLIED
        url1        CDATA        #IMPLIED
>
```

NOTES:

All data/time data transmitted must conform to the W3C HTTP1.1 specification's HTTP-date grammar (IETF RFC 1123 format is strongly preferred). This means, among other things, that all date/time data will be represented in GMT/UTC time. See RFC 1123 for specific details. Simplified format string:
Wdy, dd MON yyyy HH:MM:SS GMT

The valid even ids (deid) will be stored in the DOT_EVENTS table described later in this appendix.

- 0 – Download of homedot/native code
- 1 –Download of Dot
- 2 – download of Dotpack
- 3 – Use of Dot (home Dot is special dtid "-1" for this event)
- 4 – Click thru to browser
- 5 – Page view

DEID and start_time are always required, but other required attributes are actually variable based on record type/deid:

- 0 –dpid, end_time
- 1 –dpid, dtid, end, time
- 2 –dpid, dpkid, end_time
- 3 –dtid, end_time
- 4 –dtid, url1
- 5 –dtid

All_Events Example

```
<DOT_EVENTS>
        <DOT_EVENT DEID="0" DPID="10" START_TIME="Sat, 10 APR 1999 09:15:08
GMT" END_TIME="Sat, 10 APR 1999 09:16:55 GMT" />
        <DOT_EVENT DEID="2" DPKID="5" DPID="10" START_TIME="Sat, 10 APR
1999 09:17:08 GMT" END_TIME="Sat, 10 APR 1999 09:19:55 GMT" />
        <DOT_EVENT DEID="1" DTID="49" DPID="1" START_TIME="Sat, 10 APR 1999
09:30:08 GMT" END_TIME="Sat, 10 APR 1999 09:30:55 GMT" />
        <DOT_EVENT DEID="1" DTID="51" DPID="1" START_TIME="Sat, 10 APR 1999
09:31:08 GMT" END_TIME="Sat, 10 APR 1999 09:32:55 GMT" />
        <DOT_EVENT DEID="1" DTID="59" DPID="1" START_TIME="Sat, 10 APR 1999
09:33:08 GMT" END_TIME="Sat, 10 APR 1999 09:34:55 GMT" />
        <DOT_EVENT DEID="3" DTID="49" START_TIME="Sat, 10 APR 1999 09:35:08
GMT" END_TIME="Sat, 10 APR 1999 12:29:55 GMT" />
        <DOT_EVENT DEID="3" DTID="51" START_TIME="Sat, 10 APR 1999 09:35:08
GMT" END_TIME="Sat, 10 APR 1999 12:29:55 GMT" />
        <DOT_EVENT DEID="3" DTID="59" START_TIME="Sat, 10 APR 1999 09:35:08
GMT" END_TIME="Sat, 10 APR 1999 12:29:55 GMT" />
        <DOT_EVENT DEID="5" DTID="59" START_TIME="Sat, 10 APR 1999 09:15:08
GMT" />
        <DOT_EVENT DEID="5" DTID="59" START_TIME="Sat, 10 APR 1999 11:34:08
GMT" />
        <DOT_EVENT DEID="5" DTID="59" START_TIME="Sat, 10 APR 1999 12:15:08
GMT" />
        </DOT_EVENTS>
```

AddShare_Response DTD

```
<!ELEMENT addshare_response EMPTY>
<!ATTLIST addshare_response
        dusid           CDATA                   #REQUIRED
>
```

AddShare_Response example

```
<ADDSHARE_RESPONSE DUSID="123456" />
```

8 Server API

As indicated previously in this document, the client communicates to the server via an HTTP request. The HTTP request URL will effectively contain an "API call". Any API calls that require the uploading of data to the server will place the data in the message body of the request. This implies that these (uploader) HTTP requests will be POSTs

and not GETs. API calls that require uploading/downloading of data will send/receive that data in XML, in the format as is indicated previously in this document. The server will support message body compression (i.e., content-encoding) to help reduce network traffic. Content compression will be in the commonly supported HTTP forms of :gzip, zip, or zlib and will be chosen on a user by user basis based on standard HTTP response and request header values for content encoding.

All "API Ccalls" listed below are the end part of a complete URL that starts with: http://<someservername>.DoDots.com/DoDots/, where <servername> is variable and DoDots is an alias for the DoDots servlet/JSP servlet or servlets directory. Arguments to any of the methods are passed in as name value pairs in the query string portion of the URL. Note that data intended to be persistently stored on the server are not considered "arguments" to the server API method. The arguments are used only to allow the servlet implementing the API call to perform the requested action, not to encode the data uploaded.

In every case, the client will receive an HTTP response code of: "401 Not Authorized" if the client does not provide a valid username and password in every request. To avoid the possibility of a username/password combination persistently stored in the clear (i.e., a directory entry on windows), the standard HTTP headers of "Authorization:" and "WWW-Authenticate:" will be used to carry the username and password information in every request with the exception of the DoAddUser method. The security scheme used will be the "BASIC" scheme as detailed in IETF RFC 1521 and RFC 2617. This has the two added advantages of: a) an ordinary web browser can then be used as an impromptu debugging tool for the client/server communication; and, b) user sessions can be silently reestablished when the session has timed-out due to inactivity and the user causes a call to the server to happen without restarting the client WinInet, like MSIE, will keep resending the Authorization header with every request until the hosting application exits. It is suggested that the application server handle the authentication via the HTTP header information rather than configuring the web server for authentication – this way the authentication scheme can change over time by module replacement (both on the server and the client) and the user can be offered the ability to change passwords. The BASIC authentication method is recommended for the initial release due to the readily available BASE64 decoders, including the built-in support for BASIC auth in most client-side libraries (like WinInet). Other, more secure authentication schemes (such as MD5 or X509) may be substituted or added in, if desired. All successful requests will return a standard HTTP response with a result code of "200 OK" unless otherwise specified in the method descriptions below. The server should pay careful attention to the HTTP "content-length" and the actual request body lengths to confirm that the client message has not been truncated or the connection dropped. The server may be designed and implemented with localization and internationalization of returned error, warning and status messages. Given that certain XML streams may be of great length, the server should support inbound and outbound handing of message body compression/decompression when requested by the client. Compression types that should be supported are: GZIP, ZIP, and ZLIB. The client indicates requested/supported compression types thru the standard HTTP headers of "Content-Encoding", "Accept-Encoding", and "Vary" as described in the W3C HTTP 1.1 specification. Note that the client may indicate or not indicate compression on a request

by request basis. The server should not assume that the client can handle a compressed response body unless indicated in the request header.

Server API methods for the end-user client

addUser

The addUser method is used to create a new DoDots user account.
Note that this is available as an end-user api in cases in which it is desired to allow new users to add themselves rather than wait for an administrator to do it for them.

Arguments:

- uid – unique username
- password – password for the user account
- dpid (optional) – Dot provider id user is also a Dot content developer
- title (optional) - title if user is also a Dot content developer
- prefix (optional) - name, prefix (i.e., Mr., Ms., Mrs., Dr., etc…)
- firstname – First name
- mi (optional) – Middle initial
- lastname – Last name
- suffix (optional) – name suffix (i.e. III, Jr., PhD., etc…)
- email (optional) – E-mail address
- street1 (optional) – first line of the street address
- street2 (optional) – second line of street address
- city (optional) – city
- state (optional) – state
- country (optional) – country
- birthdate (optional) – birthdate (i.e. 04/10/1965)
- sex (optional) – sex (i.e. male, female)

Example:
Request:
http://dots1.DoDots.com/DoDots/addUser?uid=Smith&password=scotchromanian&prefix=Mr&firstname=Scot&mi=J&lastname=Smith&email=Smith&newco.com

Response:
Standard HTTP success with no response body.

getUser
The getUser method retrieves the user's own demographic data. This method supports the ability of the client application to then allow updates to the user's demographic information using the setUser method (see below).

Arguments:

- uid (optional) – username. uid is required when the issuer is a Dot developer or the DoDots admin. If the method is invoked by an end-user, this argument is ignored and the server identifies the user from the Authorization information.

Example:
Request:
http://dots1.DoDots.com/DoDots/getUser

Response:
The expected response is an xml stream containing the user's current demographic information. This xml stream is the USER DTD as defined earlier in this document.

setUser

- uid (optional) – username. uid is required when the issuer is a Dot developer or the DoDots admin. If the method is invoked by an end-user, this argument is ignored and the server identifies the user from the Authorization information.
- password – password for the user account
- dpid (optional) – Dot provider id user is also a Dot content developer
- title (optional) - title if user is also a Dot content developer
- prefix (optional) - name, prefix (i.e., Mr., Ms., Mrs., Dr., etc…)
- firstname – First name
- mi (optional) – Middle initial
- lastname – Last name
- suffix (optional) – name suffix (i.e. III, Jr., PhD., etc…)
- email (optional) – E-mail address
- street1 (optional) – first line of the street address
- street2 (optional) – second line of street address
- city (optional) – city
- state (optional) – state
- country (optional) – country
- birthdate (optional) – birthdate (i.e. 04/10/1965)
- sex (optional) – sex (i.e. male, female)

Example:
Request:
http://dots1.DoDots.com/DoDots/setUser?uid=smith&password=scotchromanian&prefix=Mr&firstname=Scot&mi=J&lastname=Smith&email=smith@newco.com

Response:
Standard HTTP success with no response body.

getSessionConfig

The getSessionConfig method is used to retrieve general configuration information.
Arguments:

- None

Example:
Request:
http://dots1.DoDots.com/DoDots/getSessionConfig

Response:
The expected response is an xml stream containing the high level configuration information for the session. This xml stream is the SESSION_CONFIG DTD as defined earlier in this document.

setPassword

The setPassword method provides a mechanism for the user to change their associated DoDots server account password.

Arguments:
Newpass – the new password

Example:
Request:
http://dots1.DoDots.com/DoDots/setPassword?newpass=bar

Response if successful:
Standard HTTP success with no response body.

getMasterDotList

The getMasterDotList method requests the list of all Dot templates known by the server. The server returns a message body in predefined XML format (set the DOT/MASTERLIST DTD and example) of all possible Dots and their default template values. Note that included in each DOT element are a version stamp and Dot class ids which allows the client to determine if they have the most up-to-date Dot template and Dot class binaries for the dot. The client may then decide to request the updated Dot template (see the getDotTemplate method) and/or Dot class binary zip file (see the getDotClassBinaries method).

Arguments:

- None.

Example:
Request:
http://dots1.DoDots.com/DoDots/getMasterDotList

Response:
Standard HTTP success with response body as an xml stream in the predefined XML format of the DOT/MASTERLIST DTD defined earlier in this document.

setAllConfig

The setAllConfig method sends the entire body of user-specific client-side configuration information (all Snapshots, blocks, Dots, general settings, etc.) to the server for persistent storage on behalf of the user. The data is sent as the message body in a predefined XML format (see the ALL_CONFIG DTD and example). The response returned by the server indicates success or failure.

Arguments:
- none (request body contains the xml stream in the predefined XML format of the ALL_CONFIG DTD defined earlier in this document.)

Example:
Request: http://dots1.DoDots.com/DoDots/set AllConfig

Response:
Standard HTTP success with no response body.

getAllConfig

The getAllConfig method retrieves the last user-specific, server-side saved, client-side configuration information (all Snapshots, blocks, Dots, general settings, etc.) from the server. The data is sent as the message body in a predefined XML format (see the ALL_CONFIG DTD and example).

Arguments:
- **none**

Example:
Request:
http://dots1.DoDots.com/DoDots/getAllConfig

Response:
Standard HTTP success with response body as an xml stream in the predefined XML format of the ALL_CONFIG DTD defined earlier in this document.

setAllEvents

The setAllEvents method sends usage information that has accumulated since the last call to setAllEvents to the server for later use in statistical usage report generation. The data is sent as the message body in a predefined XML format (see the ALL_EVENTS DTD and example). The response returned by the server indicates success or failure.

Arguments:

- none

Example:
Request:
http://dots1.DoDots.com/DoDots/setAllEvents

Response:
Standard HTTP success with no response body.

getDotTemplate

The getDotTemplate method asks the server for a specific Dot template. The server returns the XML that describes the default state of the Dot. This method is called when the client has determined that it does not have the current version of the Dot and the user wants the most recent version (NOTE: this includes when the user is downloading the Dot for the first time)

Arguments:
- DTID – The unique Dot id for the Dot being requested. This value is extracted from the Dot master list xml stream returned by the getMasterDotList method for each Dot.

Example:
Request:
http://dots1.DoDots.com/DoDots/getDotTemplate?dtid=1234

Response:
Standard HTTP success with response body as an xml stream in the predefined XML format of the DOT_TEMPLATE DTD defined earlier in this document.

addShare

The addShare method stores a specific shared Dot, pack, or Snapshot. The server takes the XML that was uploaded by the client for sharing and returns the unique id of the share. The client should put the XML stream to be shared in the request body.

Arguments:
- none

Example:
Request:
http://dots2.DoDots.com/DoDots/addShare

Response:
Standard HTTP success with response body as an xml stream in the predefined XML format of the ADDSHARE_RESPONSE DTD defined earlier in this document.

getShare

The getShare method asks the server for a specific shared Dot, pack or Snapshot. The server returns the XML that was stored for sharing by the original sending user. The format of the returned XML stream is dependent on what has been "shared".

Arguments:

- usid – The unique share id for the share being requested.

Example:
Request:
http://dots1.DoDots.com/DoDots/getShare?dusid=1234

Response:
Standard HTTP success with response body as an xml stream in the predefined XML format. The content is returned as it was uploaded by the client.

Additional server APIs and Interfaces for Dot Providers

Dot providers can make use of all the end-user APIs by using the client application. Dot Providers may also make use of additional APIs for Dot development and testing. Interfaces that call these API methods will be JSP pages. These additional APIs and JSPs will reside on the dev/test system only. Following are a number of examples of same.

addDotTemplate

The addDotTemplate method is used to add a Dot template to the database of Dot templates. This method is used by third party Dot content providers or DoDots staff.

Arguments:

- dpid (optional) – A valid Dot provider id. This argument is used to associate the uploaded Dot template with a specific Dot provider. This argument is ignored if the user is not a DoDots staff member. If the user is a third party Dot provider, the user's associate dpid stored in the database is used instead.
- Dcid – A valid Dot category id.
- Name – The name of the Dot. The name must be unique for the given Dot provider.
- Desc – The extended description of the Dot.

Example:
Request:
http://dots1.DoDots.com/DoDots/AddDotTempalte?dpid=2&name=scots%2dtest%2ddot&desc=The%2dfirst%2dbogus%2ddot%2dused%2dfor%2dtesting

Response:
Standard HTTP success with no response body.

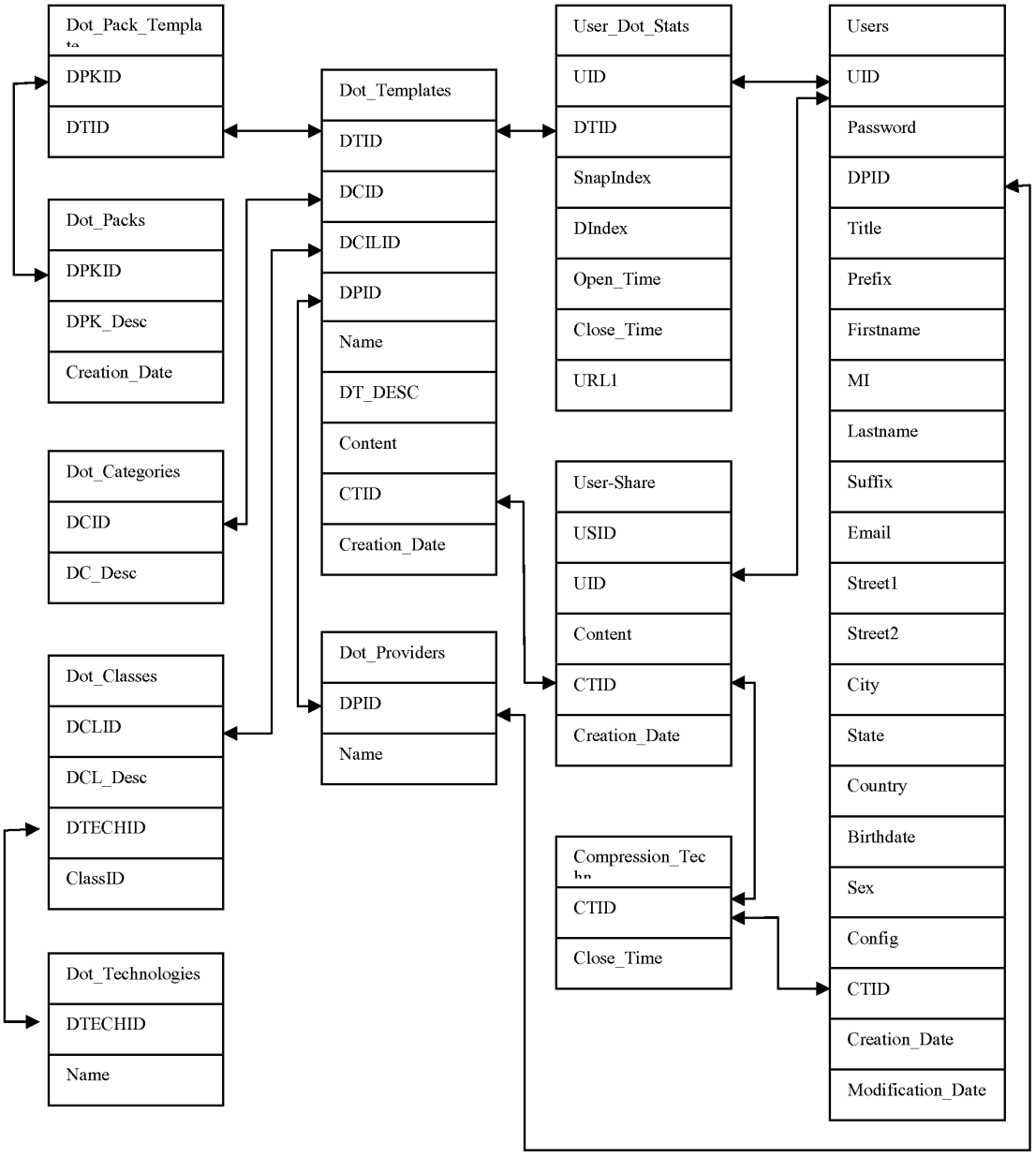
Additional server APIs and Interfaces for DoDots Administrator

A set of administrative functions may be provided to a DoDots administrator for high level control of the system. The DoDots administrator will have access to the end-user and Dot provider APIs as well as the admin APIs listed below. Generally, only the DoDots can make use of 100% of the server APIs. Interfaces that call these API methods will be JSP pages. These additional APIs and JSPs will reside on the dev/test system only. Due to the time-to-market constraints, in the first version of the system the interface and APIs will be the bare minimum required to allow for effective Dot system management. It is expected that more complex and complete functionality will be added to the system in subsequent releases (as loosely defined in the future sections of this document).

Database Schema

General notes on database schema and design: Usually, columns ending in "ID are unique id columns for a particular entity class. The row values for these columns may be auto-generated by the RDBMS on insert. Primary key (PK) and foreign key (FK) constraints and uniques (non-key indices) are indicated below. Primary Keys may be ordered concatenated columns in some cases as indicated by the PK Pos designation.

9.1 Entity Relationship Diagram



9.2 Dot_Pack_templates

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DPKID	Dot pack ID	Smallint		No	No	1/2	Dot_pack
DTID	Dot Template	int		No	No	2/2	Dot_Templaes

9.3 Dot_Packs Table

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DPKID	Dot pack ID	Smallint		No	Yes	1/1	
DPK_Desc	Dot Pack description	nvarchar		No	No		
Creation_Date	Sate of pack creation	datetime		No	No		

9.4 Dot_Categories Table

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DCID	Dot Category ID	Smallint		No	Yes	1/1	
DC_Desc	Dot Category Description	Nvarchar		No	No		

9.5 Dot_Classes Table

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DCLID	Dot Class ID	Smallint		No	Yes	1/1	
DCL_Desc	Dot Class Description	Nvarchar		No	No		
DTECHID	Technology description (ie. ActiveX, Java)	nchar		No	Yes		
ClassID	Class id. (tech specific, ie. A guid or java class spec)	nvarchar		No	Yes		

9.6 Compresion _Technologies

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DTECHID	Compression Technology ID	Smallint		No	Yes	1/1	
Name	Compression Technology Name	Nvarchar		No	Yes		

9.7 Dot_Technologies

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DTECHID	Dot Technology ID	Smallint		No	Yes	1/1	
Name	Dot Technology Name	Nvarchar		No	Yes		

9.8 Dot_Template Table

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DTID	Dot Template ID	int		No	Yes	1/1	
DCID	Dot Category ID	Smallint		No	No		Dot_categories
DCILID	Dot Class ID	Smallint		No	No		Dot_Classes
DPID	DotProvider ID	Smallint		No	No		Dot_Providers
Name	Name of the Dot	nvarchar		No	No		
DT_DESC	Dot Description	nvarchar		No	No		
Content	Dot Template Content	Varbinary		No	No		
Content_Compression CTID	Type of compression the content is stored in	Nvarchar		No	No		

Creation_ Date	Date of creation of the Dot template	datetime		No	No		

9.9 Dot_Providers Table

Column Name	Description	Datatype	Length	Allow nulls	Unique	PK Pos	FK Table
DPID	Dot provider ID	Smallint		No	Yes	1/1	
Name	Dot Provider Name	Nvarchar		No	Yes		

9.10 Dot_User_Events Table

Column Name	Description	Datatype	Length	Allow Nulls	Unique	PK Pos	FK Table
DUID	UserID	Int		No	No		Dot_Users
DEID	Dot event ID	Int		No	No		Dot_Events
DTID	Dot template ID	Int		Yes	No		Dot_Templates
DPID	Dot Provider ID	Int		Yes	No		Dot_Providers
Start_Time	Start Time info for Dot event in UTC/ GMT time	Datetime		No	No		
End_Time	End Time info for Dot event in UTC/ GMT time	Datetime		Yes	No		
URL1	URL info 1 for Dot event (fully qualified) for events that involve URLs	String		Yes	No		

9.11 Dot_Events Table

Column Name	Description	Datatype	Length	Allow Nulls	Unique	PK Pos	FK Table
DEID	Dot Event ID	Int		No	Yes	1	
DE_Name	Dot Event Name	String		No	Yes		
DE_Desc	Dot Event Description	String		No	Yes		

9.12 Dot_User_Shares Table

Column Name	Description	Datatype	Length	Allow Nulls	Unique	PK Pos	FK Table
DUSID	UserShare ID	Int		No	Yes	1/1	
DUID	User ID	Int		No	No		Users
DUS_Content	The content of the shared item. This could be a dot, Dot pack, or Snapshot	Varbinary		No	No		
DCTID	The type of compression used to store to share	Number	9	No	No		
DUS_Creation_Date	Date of creation of the share	Datetime		No	No		
DUS Download_ Date		Datetime		No	No		

9.13 Users Table

Column Name	Description	Datatype	Length	Allow Nulls	Unique	PK Pos	FK Table
Username	User ID	Nvarchar		No	Yes	1/1	
Password	User's Password	Nvarchar		No	No		
DPID	Dot Provider ID (only in dev/test and only if user is a Dot provider developer)	Smallint		Yes	No		Dot_Providers
Title	Business Title, if applicable	Nvarchar		Yes	No		
Prefix	Prefix to name (i.e., Mr., Mrs., Dr., etc…)	Nchar	10	Yes	No		
Firstname	First Name	Nvarchar	25	No	No		
MI	Middle Initial	Nvarchar	1	Yes	No		
Lastname	Last Name	Nchar	25	No	No		
Suffix	Name Suffix	Nchar	10	Yes	No		

	(i.e. Jr., Sr., III, PhD.)						
Email	Email Address	Nvarchar		No	No		
Street1	First line of street address	Nvarchar		Yes	No		
Street2	Second line of street address	Nvarchar		Yes	No		
City	City	Nvarchar		Yes	No		
State	State	Nvarchar		Yes	No		
Country	Country	Nvarchar		Yes	No		
Birthdate	Birthdate	Datetime		Yes	No		
Sex	Sex (m, f, n)	Nchar		Yes	No		
Config	Last uploaded configuration dump	Nvarchar		No	No		
Config_Compression	Compression format of the config content	Nchar	10	No	No		
Creation_Date	Date of creation of the user	Datetime		No	No		
Modification_Date	Date of last activity	Datetime		No	No		

WHAT IS CLAIMED IS:

1. A network addressable application development server having stored thereon:

a plurality of application media package templates used for the creation of application media package definitions, each application media package template comprising at least one element selected from the group consisting of:

instructions resulting in the formation of a definition of a graphical user interface in a web browser readable language such that said graphical user interface may be rendered outside of a window of, and without utilization of, a web browser application, said definition including an element for causing content in a web browser readable language to be presented within said graphical user interface;

instructions resulting in the formation of a control for controlling an aspect of said graphical user interface; and

instructions resulting in the formation of a network reference to said content;

each said selected element being modifiable such that it may be repurposed for the development of an application media package definition.

2. The network addressable application development server of claim 1, further including access control such that unauthorized access to said server is prohibited.

3. The network addressable application development server of claim 1, further comprising a development and test resource permitting verification, authentication, and acceptance of Application Media Package definitions developed using application media package templates.

SYSTEM AND METHODS FOR CREATING AND AUTHORING INTERNET CONTENT USING APPLICATION MEDIA PACKAGES

ABSTRACT

An Application Media Package is a software component for accessing and displaying Internet content which includes a definition for rendering a graphical user interface and a URL pointing to Internet content to be downloaded and presented within said user interface. An Application Media Viewer may be used in association with an Application Media Package to manage the collection, organization, sharing, and rendering of a plurality of such Packages. A development server supports the community of Application Media Package developers, providing developer tools, including Package templates which provide an expedient method of re-purposing existing internet media into a new presentation package by choosing from existing examples. Access to tools and information may be controlled at the development server. The development server may also provide a development and test zone for Package verification, authentication and acceptance before posting.

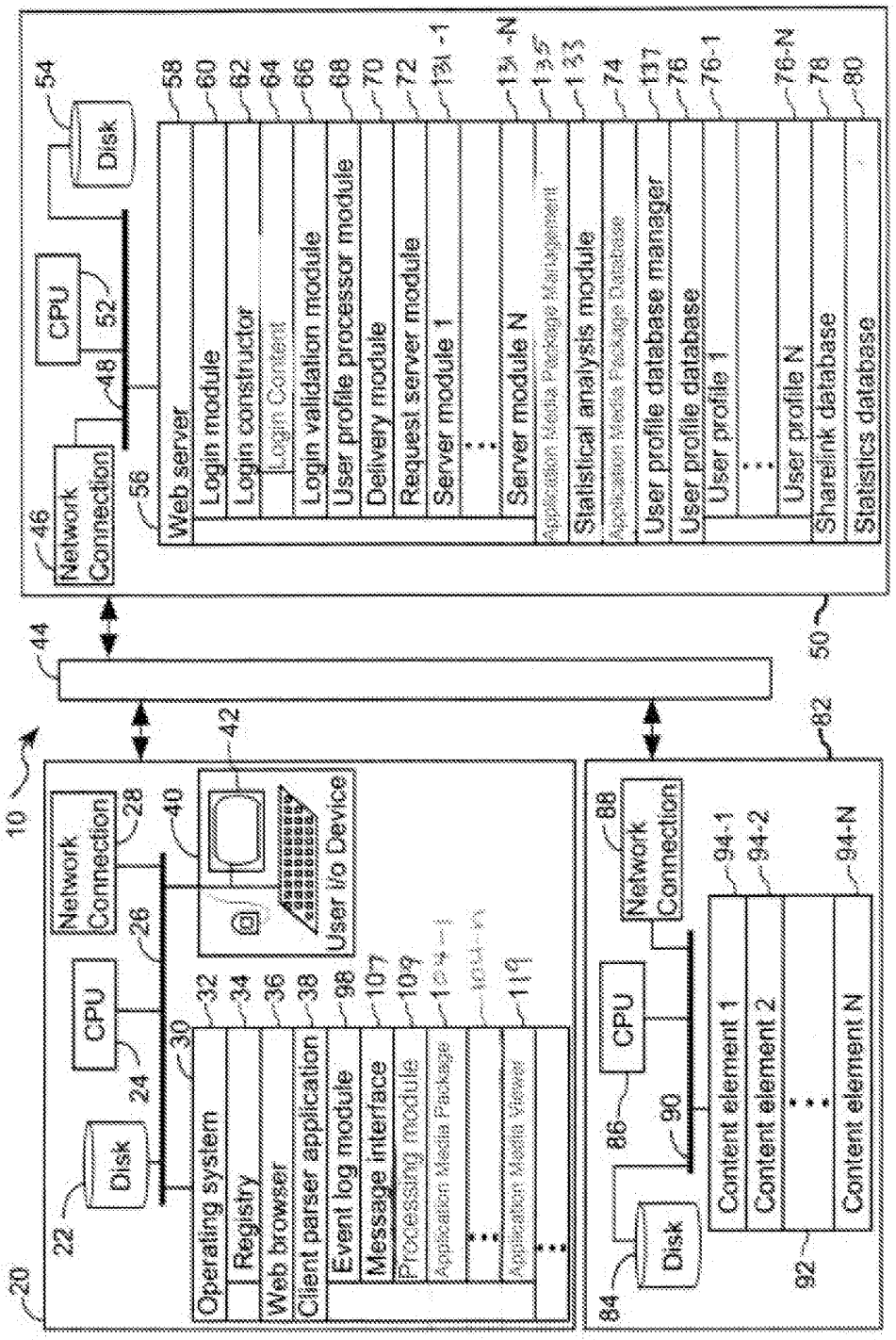

10
20
22
Disk
24
CPU
26
Network Connection
28
30
Operating system
32
Registry
34
Web browser
36
Client parser application
38
Event log module
98
Message interface
107
Processing module
109
Application Media Package
Application Media Viewer
40
42
User I/O Device
44
46
Network Connection
48
CPU
52
54
Disk
50
56
Web server
58
Login module
60
Login constructor
62
Login Content
64
Login validation module
66
User profile processor module
68
Delivery module
70
Request server module
72
Server module 1
Server module N
74
Application Media Package Management
Application Media Package Database
Statistical analysis module
User profile database manager
User profile database
76
User profile 1
User profile N
Sharelink database
Statistics database
80
82
84
Disk
86
CPU
88
Network Connection
90
92
Content element 1
Content element 2
Content element N
94-1
94-2
94-N

Fig. 1

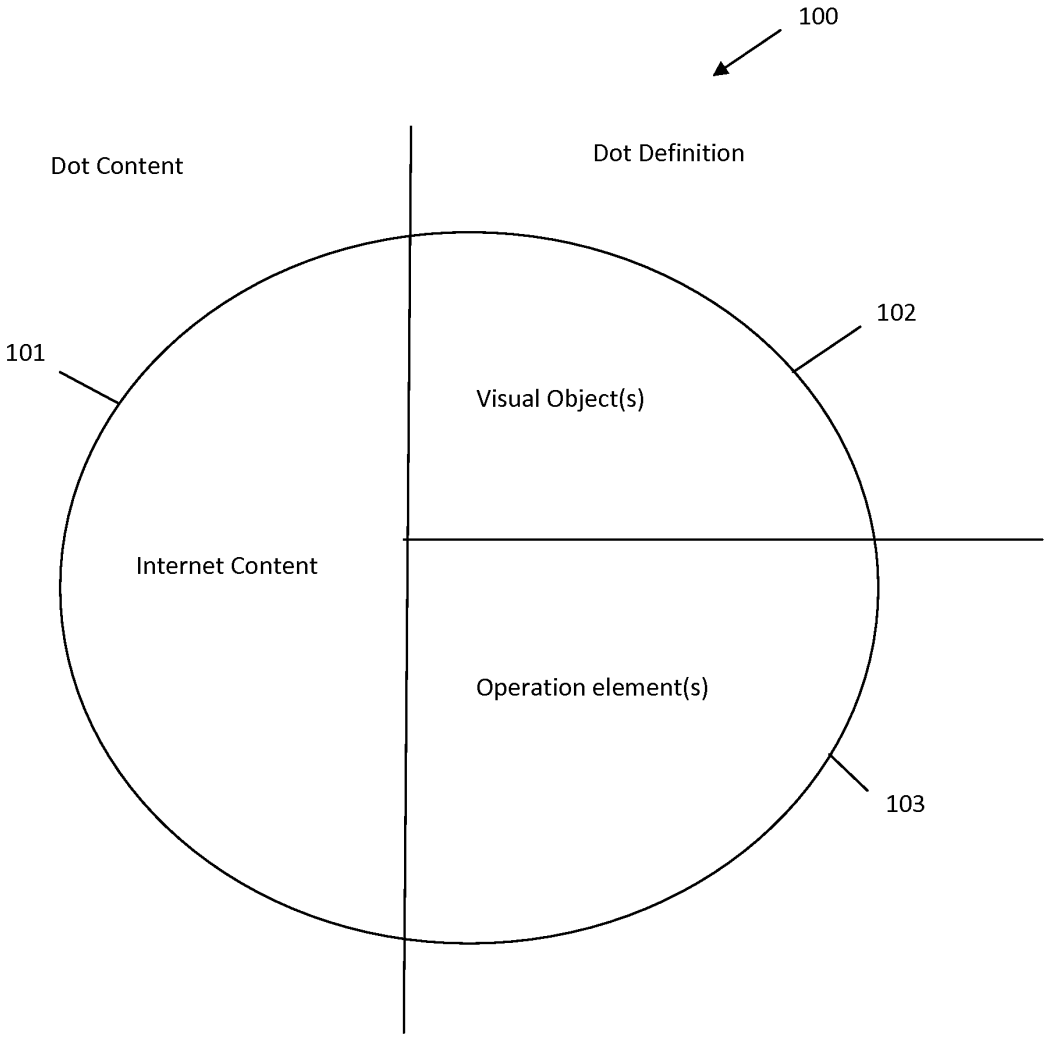

100
Dot Content
Dot Definition
101
102
Visual Object(s)
Internet Content
Operation element(s)
103

Fig. 2

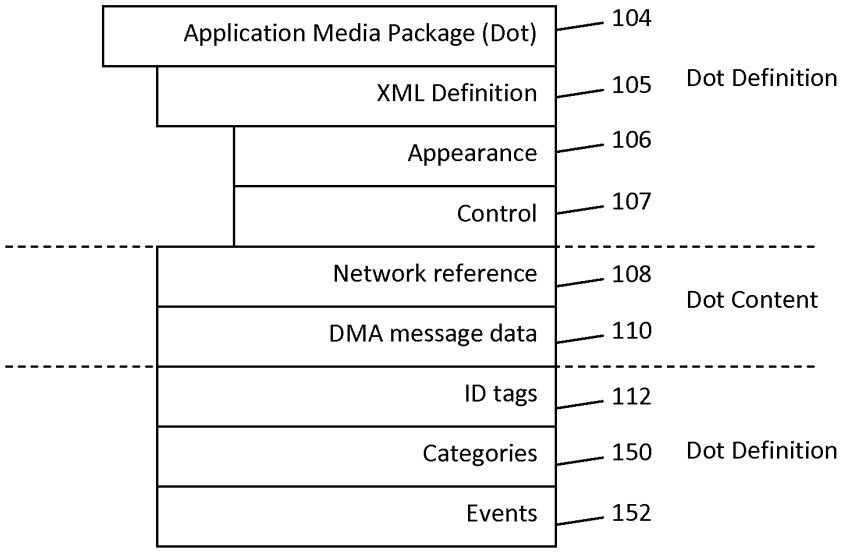

Application Media Package (Dot)
104
XML Definition
105
Dot Definition
Appearance
106
Control
107
Network reference
108
Dot Content
DMA message data
110
ID tags
112
Categories
150
Dot Definition
Events
152

Fig. 3

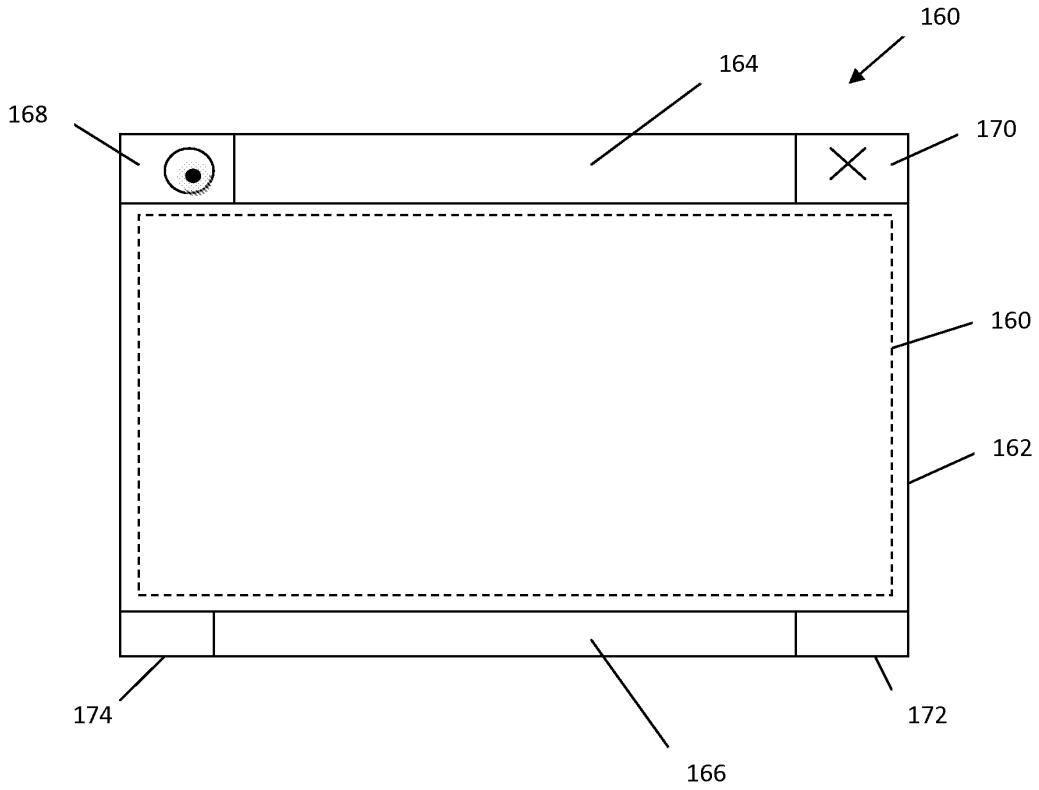


Fig. 4

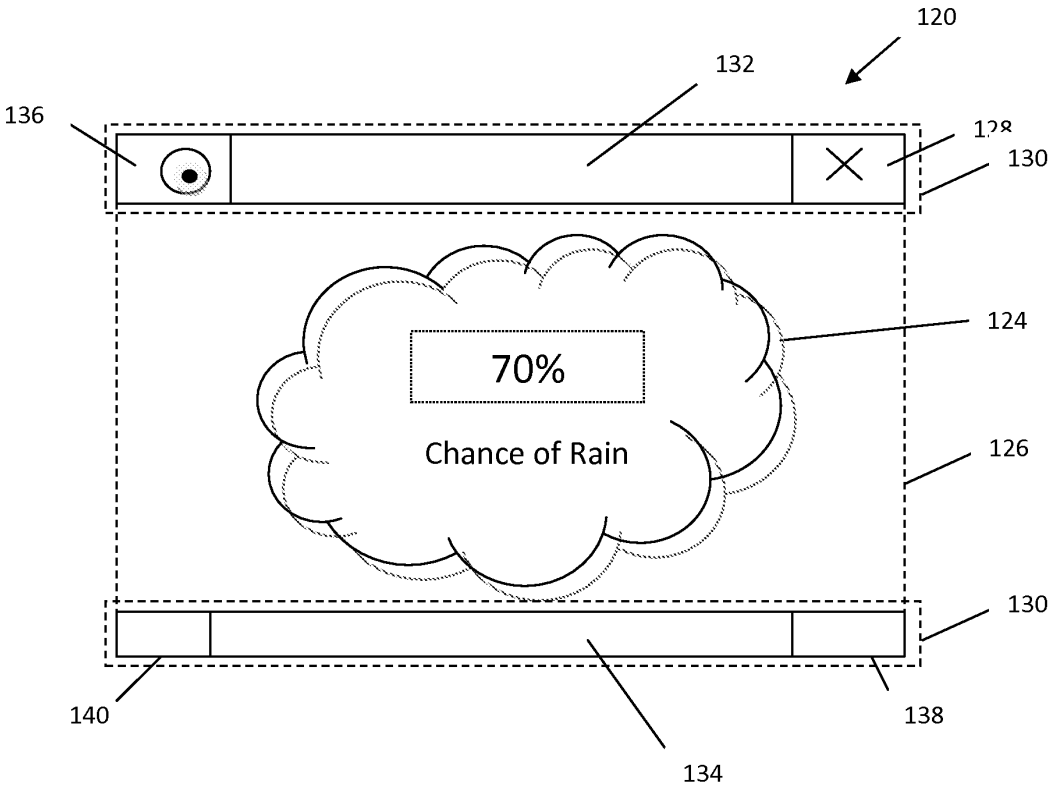


Fig. 5

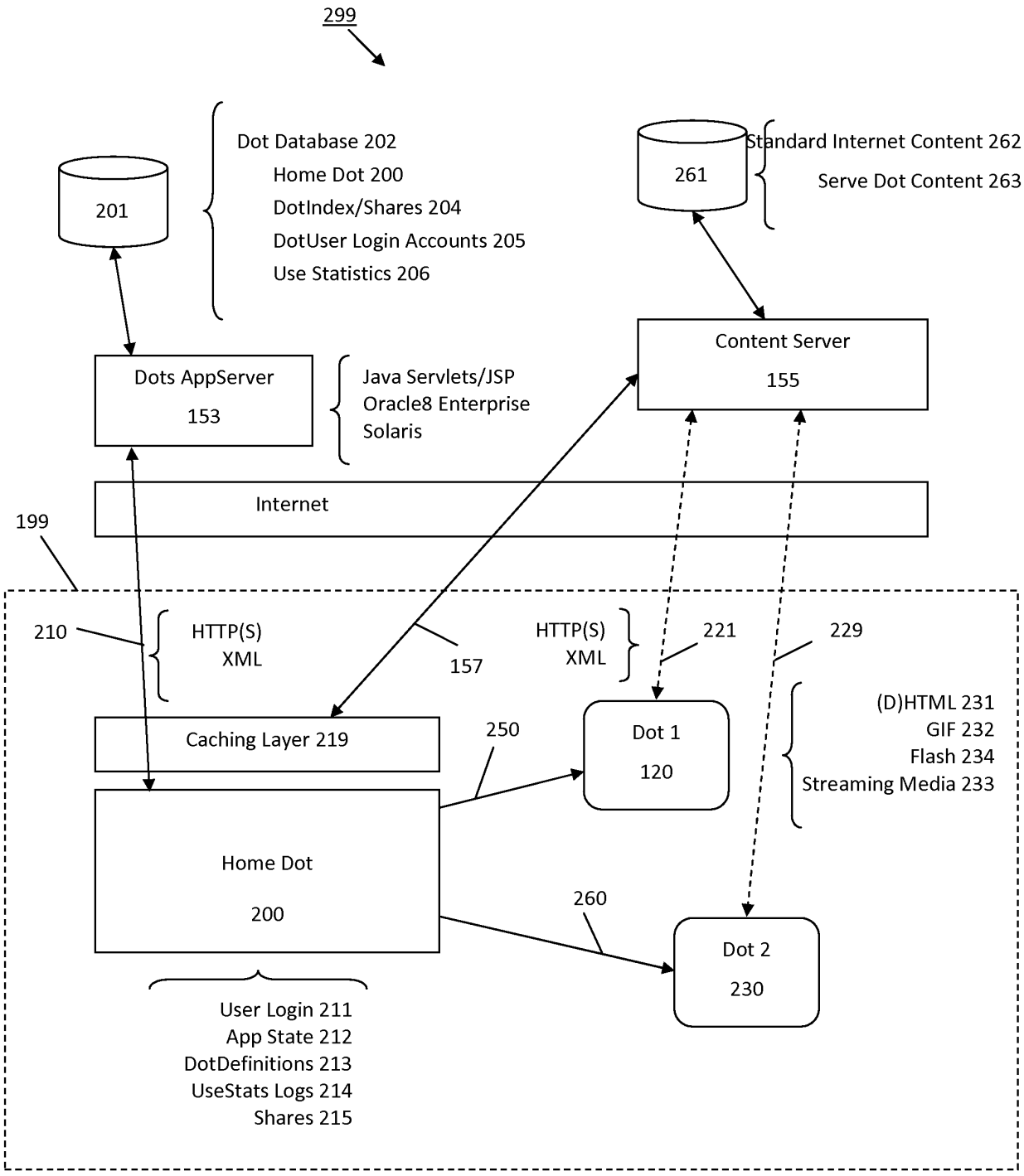

299
Dot Database 202
Home Dot 200
DotIndex/Shares 204
DotUser Login Accounts 205
Use Statistics 206
201
261
Standard Internet Content 262
Serve Dot Content 263
Content Server
155
Dots AppServer
153
Java Servlets/JSP
Oracle8 Enterprise
Solaris
Internet
199
210
HTTP(S)
XML
157
HTTP(S)
XML
221
229
(D)HTML 231
GIF 232
Flash 234
Streaming Media 233
Caching Layer 219
250
Dot 1
120
Home Dot
200
260
Dot 2
230
User Login 211
App State 212
DotDefinitions 213
UseStats Logs 214
Shares 215

Fig. 6

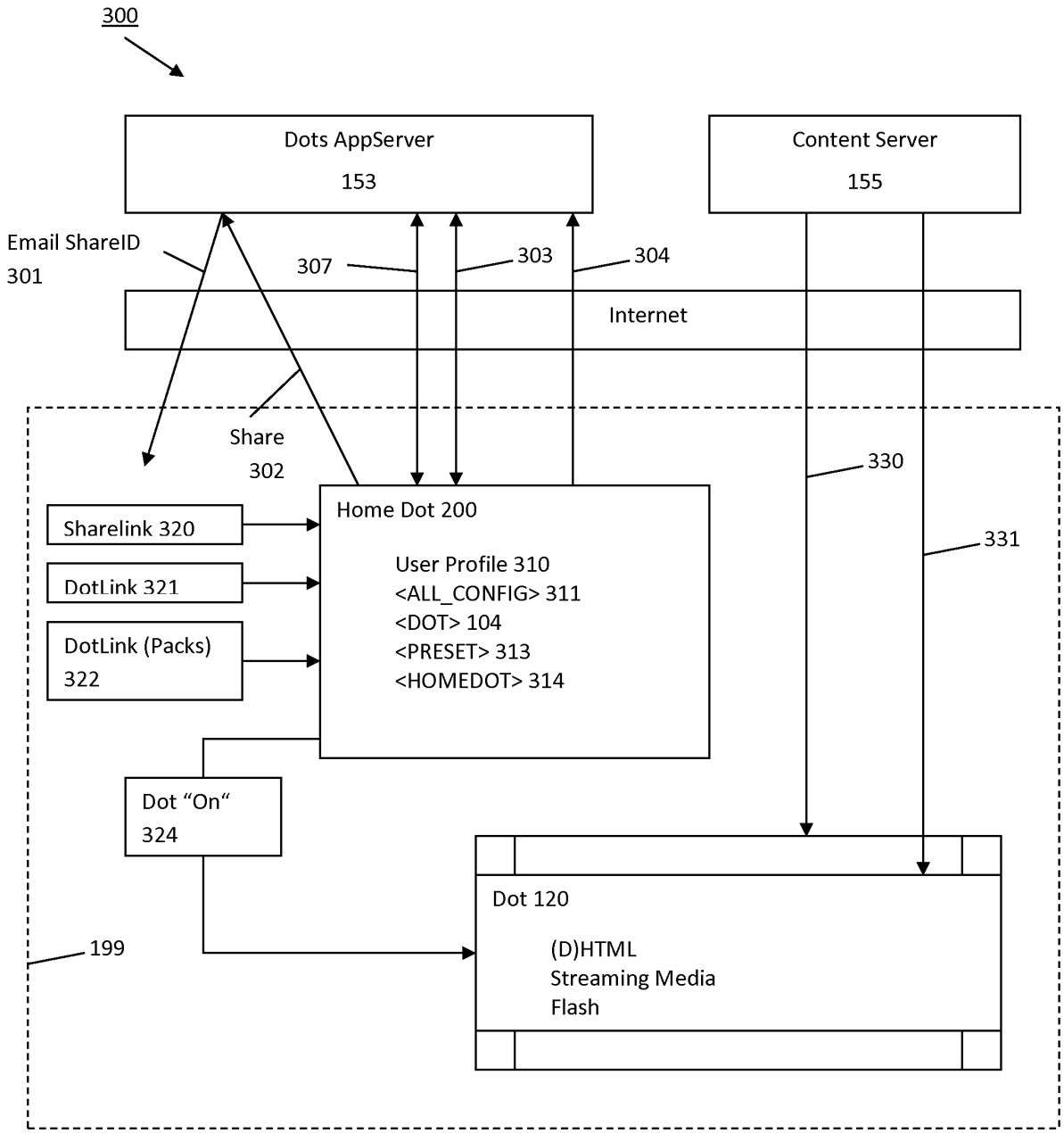

300
Dots AppServer
153
Content Server
155
Email ShareID
301
307
303
304
Internet
Share
302
330
Home Dot 200
User Profile 310
<ALL_CONFIG> 311
<DOT> 104
<PRESET> 313
<HOMEDOT> 314
Sharelink 320
DotLink 321
DotLink (Packs)
322
331
Dot "On"
324
Dot 120
(D)HTML
Streaming Media
Flash
199

Fig. 7

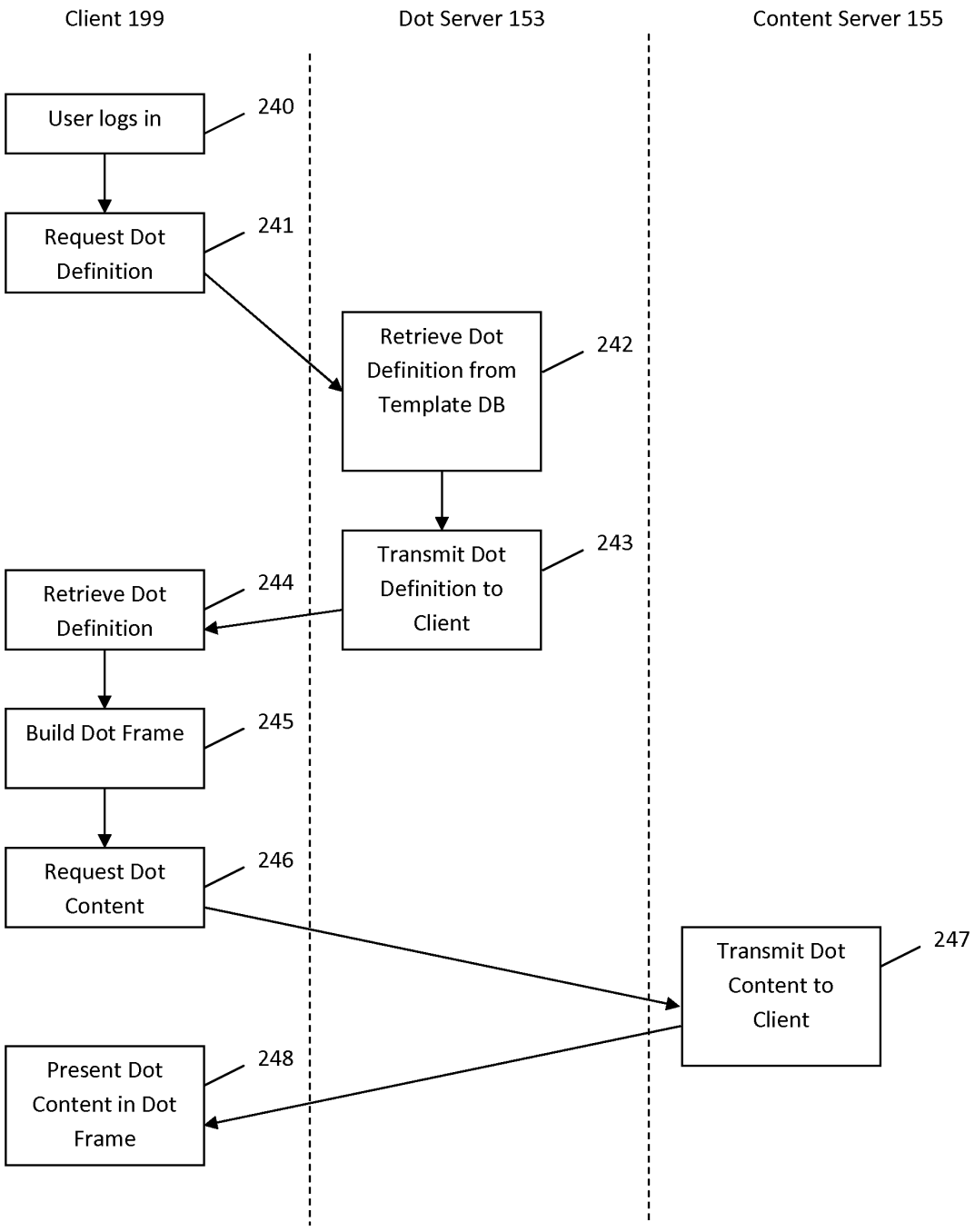

Client 199
Dot Server 153
Content Server 155
User logs in
240
Request Dot Definition
241
Retrieve Dot Definition from Template DB
242
Transmit Dot Definition to Client
243
Retrieve Dot Definition
244
Build Dot Frame
245
Request Dot Content
246
Transmit Dot Content to Client
247
Present Dot Content in Dot Frame
248

Fig. 8

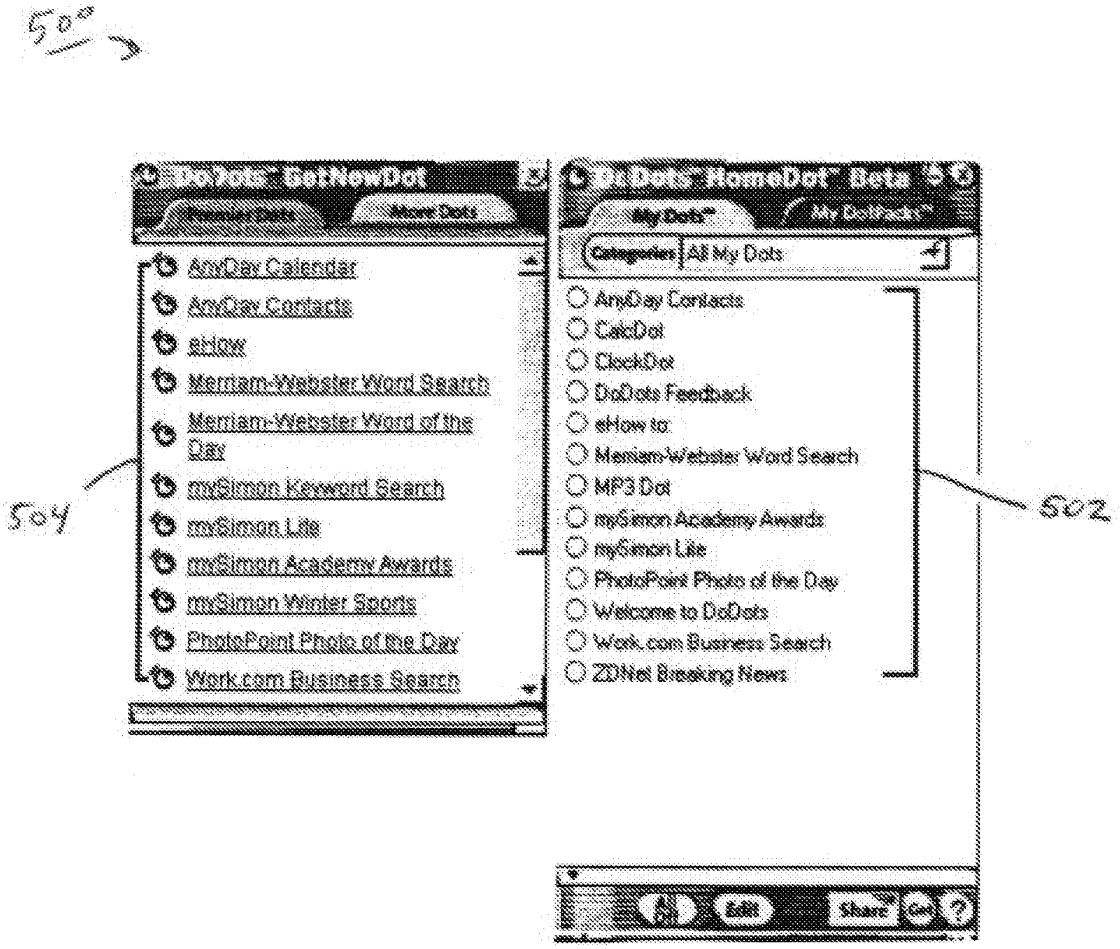

500
504
502
GetNewDot
Premier Dots
More Dots
AnyDay Calendar
AnyDay Contacts
eHow
Merriam-Webster Word Search
Merriam-Webster Word of the Day
mySimon Keyword Search
mySimon Lite
mySimon Academy Awards
mySimon Winter Sports
PhotoPoint Photo of the Day
Work.com Business Search
HomeDot Beta
My Dots
My DotPacks
Categories
All My Dots
AnyDay Contacts
CalcDot
ClockDot
DoDots Feedback
eHow to
Merriam-Webster Word Search
MP3 Dot
mySimon Academy Awards
mySimon Lite
PhotoPoint Photo of the Day
Welcome to DoDots
Work.com Business Search
ZDNet Breaking News
Edit
Share

Fig. 9

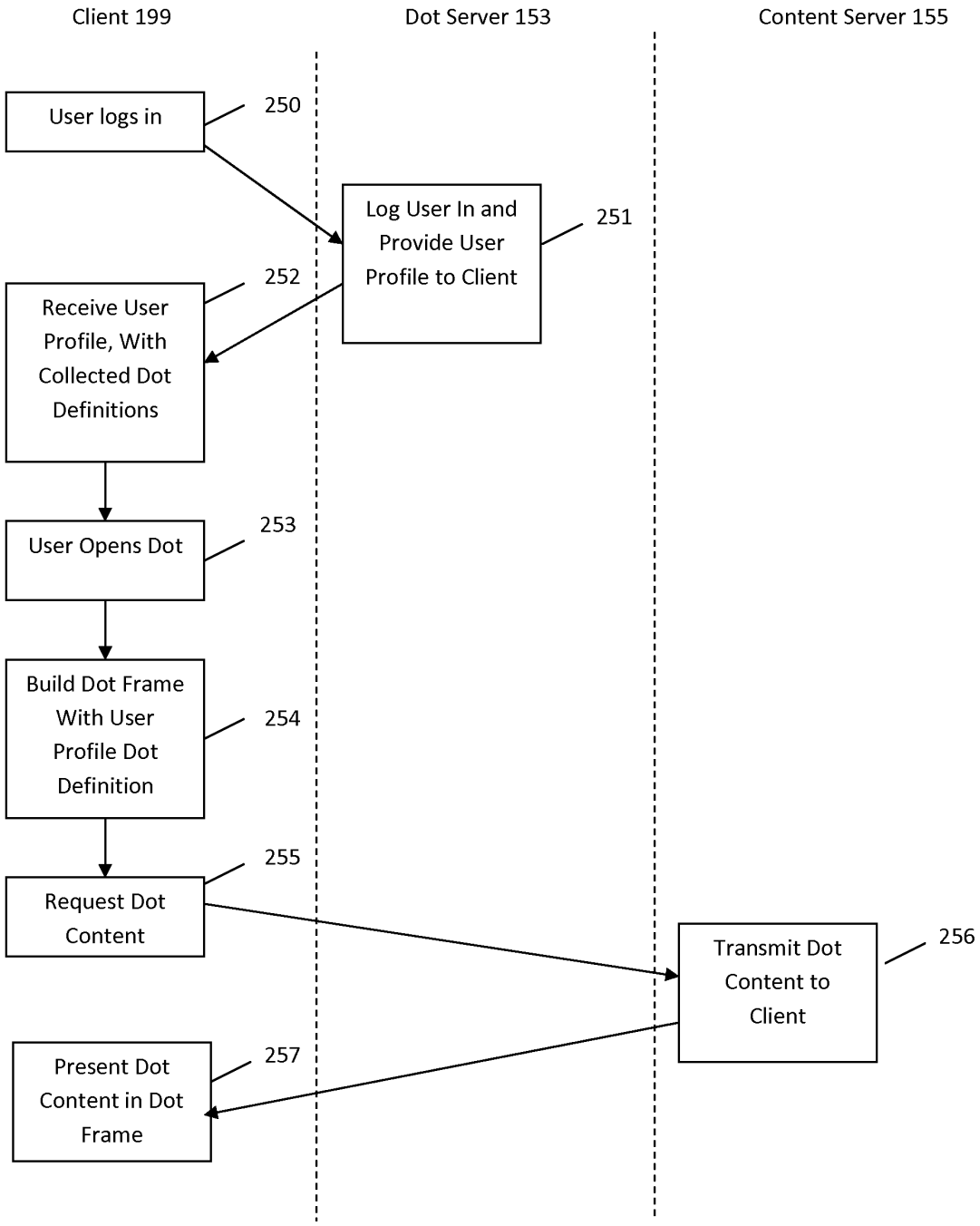

Client 199
Dot Server 153
Content Server 155
User logs in
250
Log User In and Provide User Profile to Client
251
Receive User Profile, With Collected Dot Definitions
252
User Opens Dot
253
Build Dot Frame With User Profile Dot Definition
254
Request Dot Content
255
Transmit Dot Content to Client
256
Present Dot Content in Dot Frame
257

Fig. 10

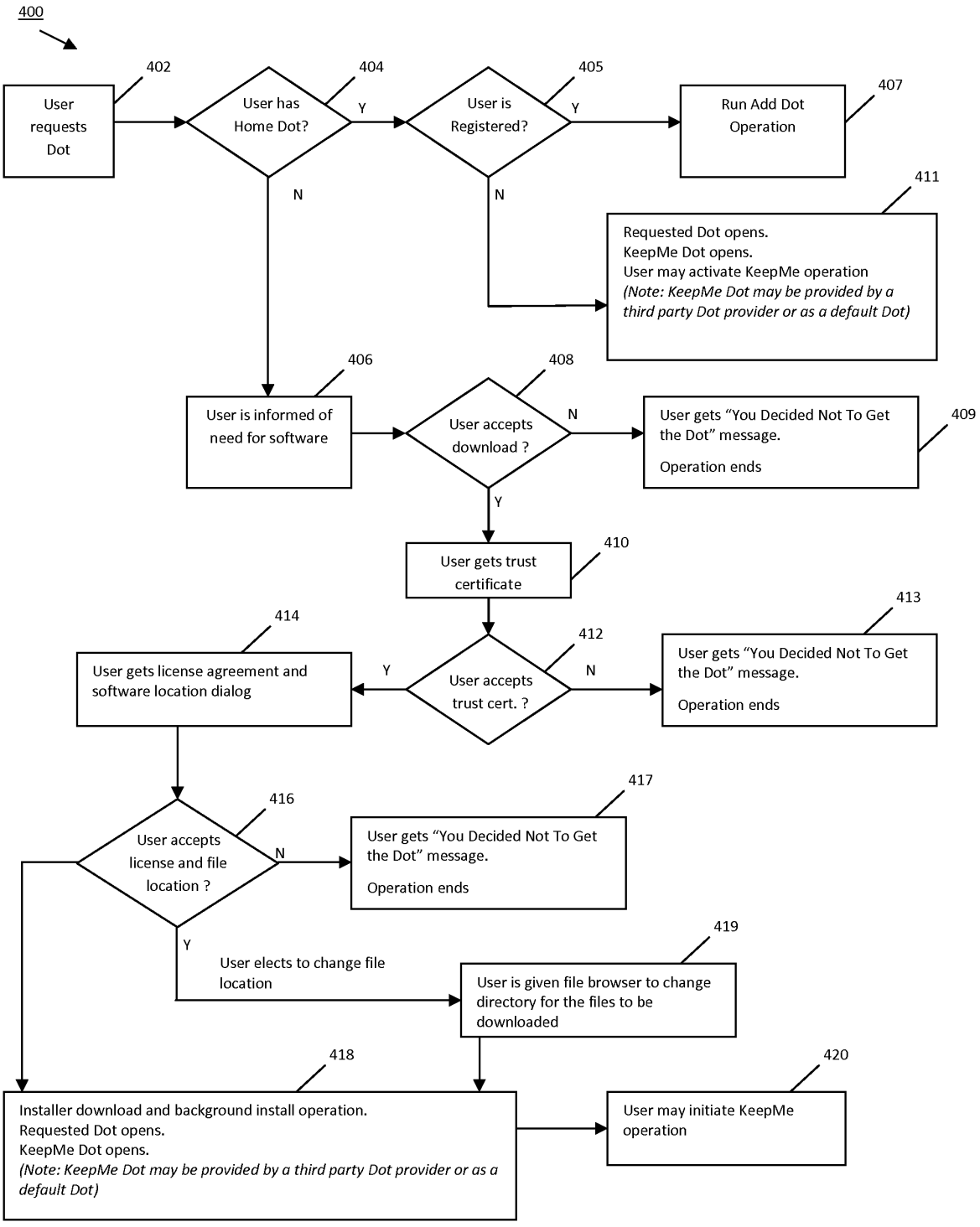

400
402
User requests Dot
404
User has Home Dot?
Y
N
405
User is Registered?
Y
N
407
Run Add Dot Operation
411
Requested Dot opens.
KeepMe Dot opens.
User may activate KeepMe operation
(Note: KeepMe Dot may be provided by a third party Dot provider or as a default Dot)
406
User is informed of need for software
408
User accepts download ?
N
409
User gets "You Decided Not To Get the Dot" message.
Operation ends
Y
410
User gets trust certificate
412
User accepts trust cert. ?
Y
N
413
User gets "You Decided Not To Get the Dot" message.
Operation ends
414
User gets license agreement and software location dialog
416
User accepts license and file location ?
N
417
User gets "You Decided Not To Get the Dot" message.
Operation ends
Y
User elects to change file location
419
User is given file browser to change directory for the files to be downloaded
418
Installer download and background install operation.
Requested Dot opens.
KeepMe Dot opens.
(Note: KeepMe Dot may be provided by a third party Dot provider or as a default Dot)
420
User may initiate KeepMe operation

Fig. 11

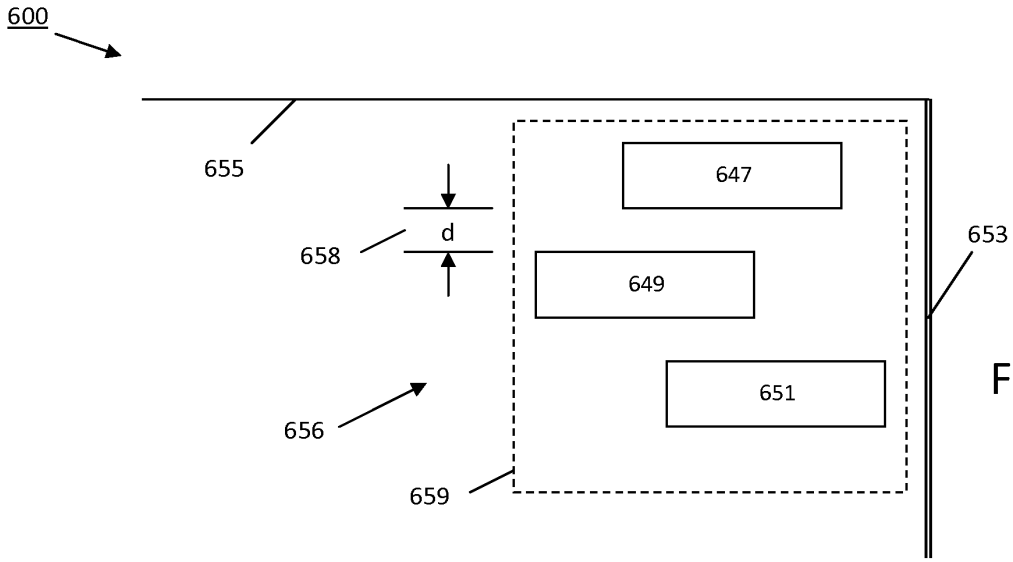


Fig. 12A

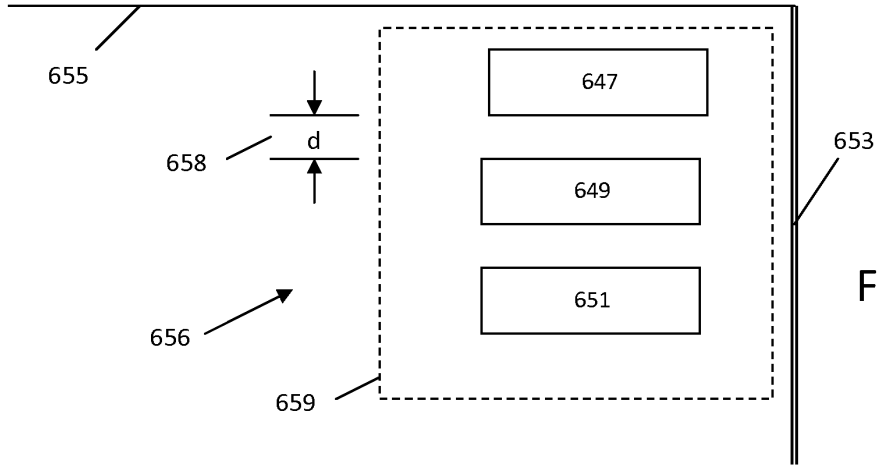


Fig. 12B

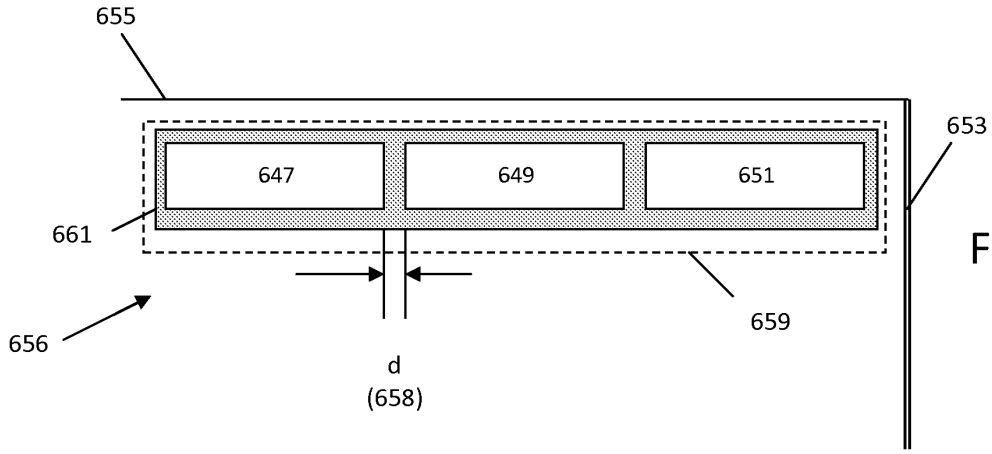


Fig. 12A

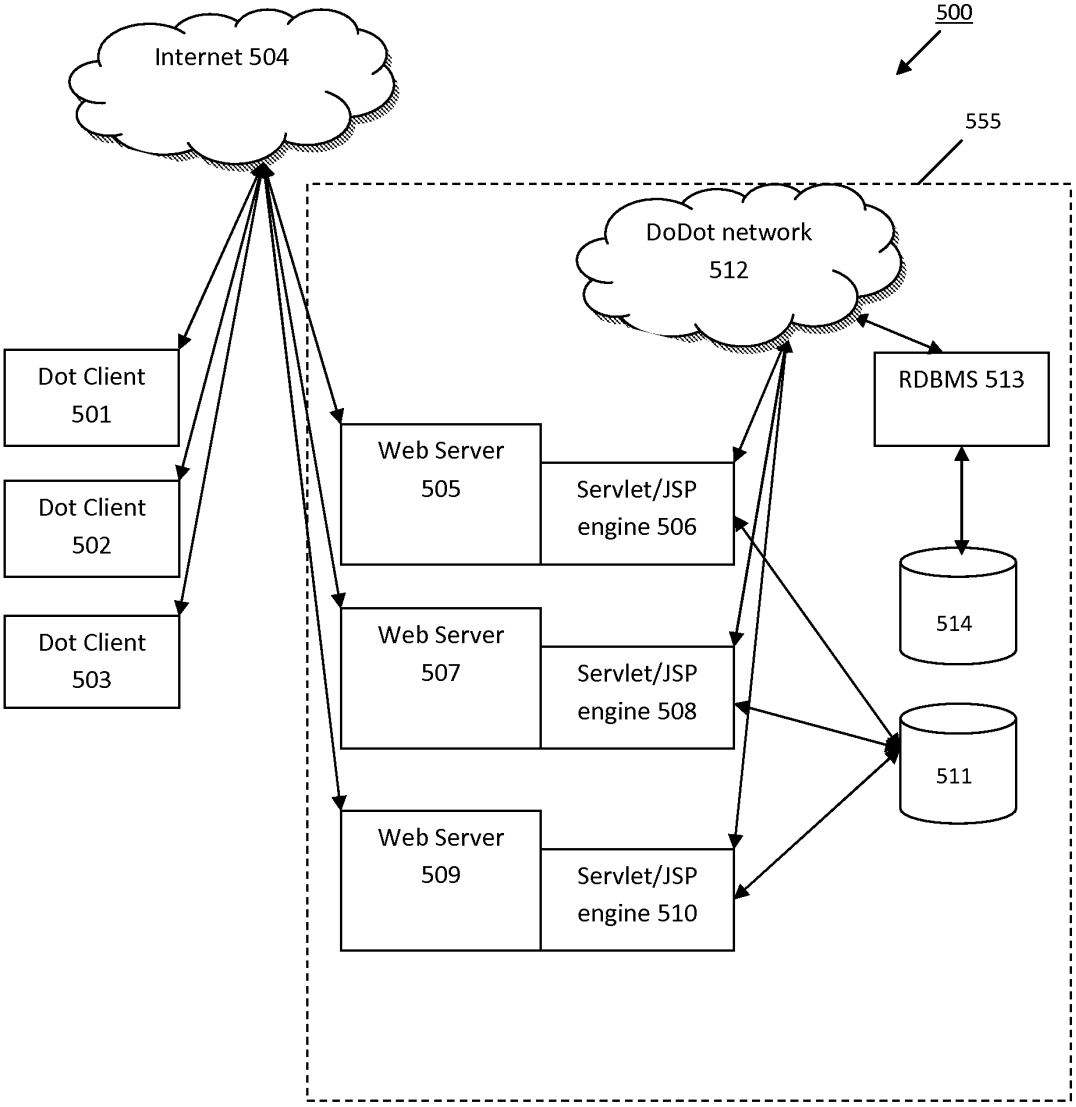

500
Internet 504
555
DoDot network
512
Dot Client
501
Dot Client
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Dot Client
503
Web Server
505
Servlet/JSP
engine 506
Web Server
507
Servlet/JSP
engine 508
Web Server
509
Servlet/JSP
engine 510
RDBMS 513
514
511

Fig. 13

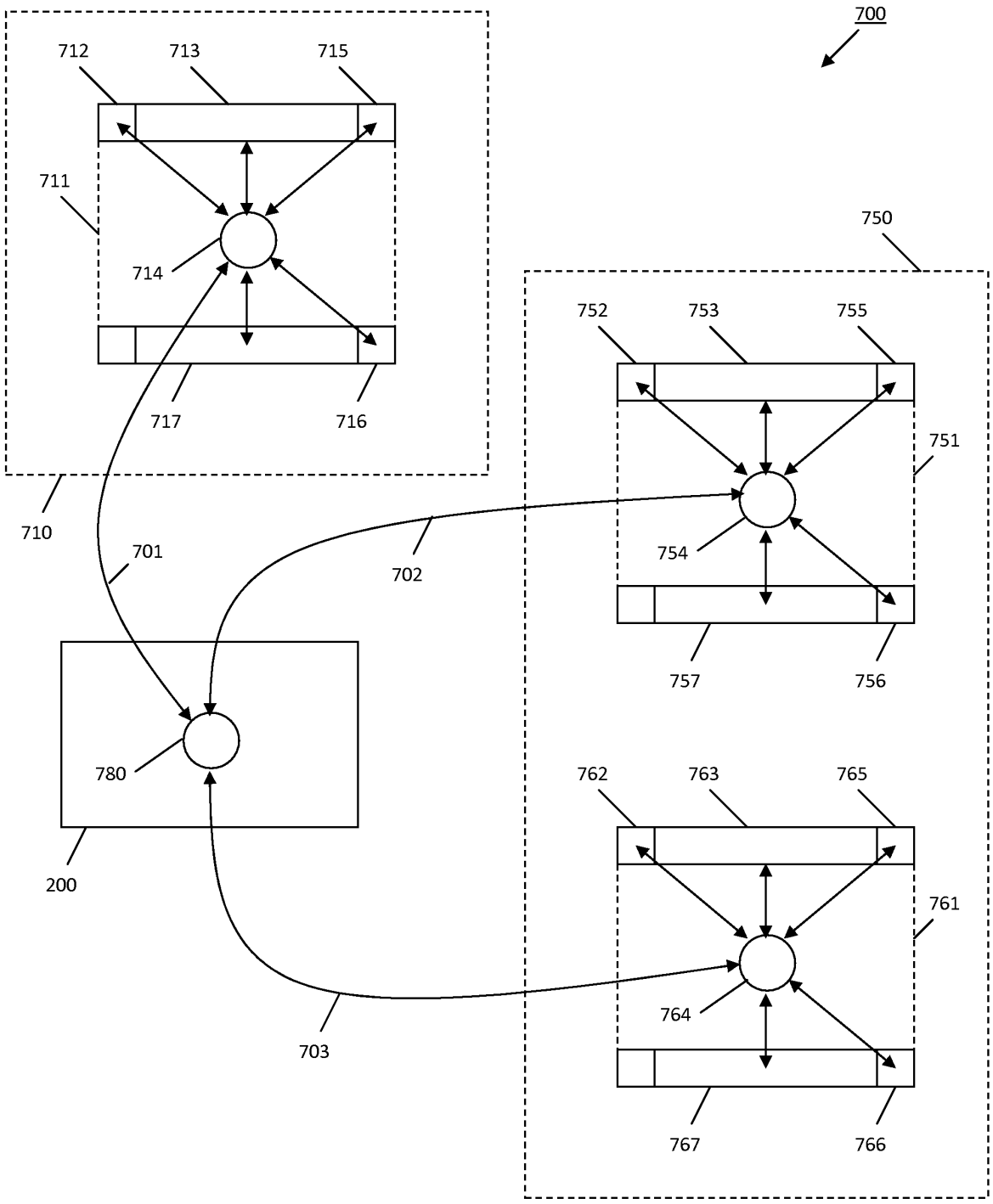

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Fig. 14

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Filer:	Jonathan Andrew Small
Attorney Docket Number:	IMS 07-05-07
Filed as Small Entity	

Utility Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	75	75
Utility Search Fee	2111	1	255	255
Utility Examination Fee	2311	1	105	105
Pages:				
Utility Appl Size fee per 50 sheets >100	2081	1	130	130
Claims:				
Miscellaneous-Filing:				
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**565**

Electronic Acknowledgement Receipt

EFS ID:	2409092
Application Number:	11932585
International Application Number:	
Confirmation Number:	2646
Title of Invention:	System and Methods for Creating and Authoring Internet Content Using Application Media Packages
First Named Inventor/Applicant Name:	John Albert Kembel
Customer Number:	43785
Filer:	Jonathan Andrew Small
Filer Authorized By:	
Attorney Docket Number:	IMS 07-05-07
Receipt Date:	31-OCT-2007
Filing Date:	
Time Stamp:	18:56:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
1		IMS_07_05_07_Spec.pdf	771528 ad6308a901e788ebc3dafb7a6d35292b76c7fea3	yes	148

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Specification	1	145
	Claims	146	147
	Abstract	148	148

Warnings:					
Information:					
2	Drawings-only black and white line drawings	IMS_07_05_07_Dwgs.pdf	188192 38d5c5915a237f55e3aded3e6c74159ae52fc382	no	14
Warnings:					
Information:					
3	Fee Worksheet (PTO-06)	fee-info.pdf	8516 068e1ec3700d411e36e110669d4006e2e55b8ef9	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	968236		

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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 (12-04)

Filing Date: 10/31/07

Approved for use through 7/31/2006. 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 11/932,585

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	250		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	100		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	3 minus 20 =	0	X$ 25	0	OR	X$50	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	* 0	X$100	0		X$200	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 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))			180			360	
			TOTAL	425		TOTAL	0

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDI-TIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDI-TIONAL FEE ($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDI-TIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDI-TIONAL FEE ($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T 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.

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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