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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	
	Filing Date	
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

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	46	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1099-UKN1196, UKN1198, UKN1200-UKN1306, UKN1308-UKN1311, UKN1314, UKN1316-UKN1339, UKN1341-UKN1344, UKN1347, UKN1349-UKN1359, UKN1380-UKN1383, UKN1385-UKN1388, UKN1391 and UKN1393-UKN1420.	☐
	47	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1422-UKN1425, UKN1429-UKN1444, UKN1447-UKN1708, UKN1710-UKN1714, UKN1716, UKN1718-UKN1741, UKN1743-UKN1745 and UKN1748-UKN1753.	☐
	48	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1754-UKN1875 and UKN1877-UKN1879.	☐

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	49	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1889-UKN2723.	☐
	50	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN2725-UKN2734, UKN3153, UKN3155, UKN3158 and UKN3160-UKN3300.	☐

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-07
Name/Print	Joseph B. Ryan	Registration Number	37922

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	1	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN3301-UKN3399.	☐
	2	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS9 containing documents numbered UKN3476-UKN3550.	☐
	3	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS10 containing documents numbered UKN3551-UKN3584, UKN3592-UKN3597, UKN3600, UKN3602-UKN3609, UKN3611, UKN3613, UKN3614, UKN3616, UKN3620, UKN3622, UKN3623, UKN3625, UKN3627, UKN3629-UKN3642, UKN3644-UKN3657, UKN3659 and UKN3660.	☐
	4	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of training documents titled UKNT1 containing documents numbered UKN3662, UKN3663, UKN3665, UKN3667-UKN3672, UKN3674, UKN3675, UKN3677, UKN3679 and UKN3680.	☐
	5	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN458-UKN464, UKN477-UKN479, UKN481-UKN483, UKN485-UKN492, UKN495, UKN496, UKN498, UKN501-UKN548, UKN559-UKN565, UKN567-UKN572, UKN574-UKN600, UKN602-UKN609, UKN611-UKN648, UKN650-UKN718, UKN720-UKN890, UKN892-UKN896, UKN898, UKN900-1009, UKN1011-1051 and UKN1053-UKN1097.	☐
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Name/Print	Joseph B. Ryan	Registration Number	37922

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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-07
Name/Print	Joseph B. Ryan	Registration Number	37922

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.**

PTO/SB/08a (01-10)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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

Application Number	
Filing Date	
First Named Inventor	David Walker Harper
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	1018-2 CON5

U.S.PATENTS

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	8135801	B2	2012-03-13	Harper et al.	
	2	7092370	B2	2006-08-15	Jiang et al.	
	3	6760046	B2	2004-07-06	l'Anson et al.	
	4	7277927	B2	2007-10-02	Rensin et al.	
	5	7158625	B2	2007-01-02	Casaccia	
	6	6879965	B2	2005-04-12	Fung et al.	
	7	6807574	B1	2004-10-19	Partovi et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

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	20110138297	A1	2011-06-09	Harper et al.	
	2	20020057678	A1	2002-05-16	Jiang et al.	

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

FOREIGN PATENT DOCUMENTS

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

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	"Blah! - The Company," http:// www.blah.com/corporate/company/index.htm, 1 page, 2003.	☐
	2	"About Upoc," http:// www.upoc.com/about.jsp, 1 page, 2002.	☐
	3	"Homestead - Your Complete Web Site Building & Hosting Solution," http:// www.homesteatd.com, 2 pages, 2003.	☐

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

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.

The above non-patent literature documents and foreign references have been previously submitted in the parent case, Serial No. 13/364,950 in Information Disclosure Statements on December 27, 2013, October 14, 2012, October 10, 2012, May 29, 2012, March 13, 2012, March 7, 2012, March 6, 2012, March 5, 2012, and February 2, 2012.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-07
Name/Print	Joseph B. Ryan	Registration Number	37922

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.**

Electronic Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON5
Filed as Small Entity	

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	730

Electronic Acknowledgement Receipt	
EFS ID:	19506091
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan
Filer Authorized By:	
Attorney Docket Number:	1018-2 CONS
Receipt Date:	07-JUL-2014
Filing Date:	
Time Stamp:	15:45:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$730
RAM confirmation Number	2396
Deposit Account	500762
Authorized User	RYAN, JOSEPH B.
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 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

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	Application Data Sheet	1018-2CON5_ADS.pdf	56332	no	7
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
2		1018-2CON5_APP.pdf	5448642	yes	31

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Specification	1	26
Claims	27	30
Abstract	31	31

Warnings:					
Information:					
3	Oath or Declaration filed	1018-2CON5_DEC.pdf	468121	no	3
Warnings:					
Information:					
4	Drawings-only black and white line drawings	1018-2CON5_FIGS.pdf	4975373	no	48
Warnings:					
Information:					
5	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON5_IDS_PT1.pdf	57942	no	19
Warnings:					
Information:					
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6	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON5_IDS_PT2.pdf	40126	no	7
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
7	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON5_IDS_PT3.pdf	40458	no	7
Warnings:					
Information:					
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8	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON5_IDS_PT4.pdf	40003	no	7
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
9	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON5_IDS_PT5.pdf	572510	no	4
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
10	Fee Worksheet (SB06)	fee-info.pdf	33471	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	11732978		

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 Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON5
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	David	Walker	Harper	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Bay Shore	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	37 19th Avenue		
Address 2			
City	Bay Shore	State/Province	NY
Postal Code	11706	Country	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Jason	James	Sabella	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

City	Coram	State/Province	NY	Country of Residence	US

Mailing Address of Inventor:

Address 1	1803 Townehouse Drive		
Address 2			
City	Coram	State/Province	NY
Postal Code	11727	Country	US

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	William	Henry	Munch	

Residence Information (Select One) ◉ US Residency ○ Non US Residency ○ Active US Military Service

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON5
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

City	Tampa	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	481 Severn Avenue		
Address 2			
City	Tampa	**State/Province**	FL
Postal Code	33606	**Country**	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	31825		
Email Address	jbr@rml-law.com	Add Email	Remove Email

Application Information:

Title of the Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS		
Attorney Docket Number	1018-2 CON5	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	48	**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.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON5
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Customer Number	31825

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	14175768	2014-02-07
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
14175768	Continuation of	13364950	2012-02-02
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13364950	Continuation of	13027519	2011-02-15	8135801	2012-03-13
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13027519	Continuation of	12548928	2009-08-27	7908342	2011-03-15
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12548928	Continuation of	10464526	2003-06-18	7599983	2009-10-06

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
10464526	Claims benefit of provisional	60389430	2002-06-18

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

PTO/AIA/14 (11-13)
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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	1018-2 CON5
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Remove

Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[j] (if applicable)

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Authorization to Permit Access:

☐ Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

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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	1018-2 CON5
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

◉ Assignee	○ Legal Representative under 35 U.S.C. 117	○ Joint Inventor
○ Person to whom the inventor is obligated to assign.	○ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	Wireless Ink Corporation

Mailing Address Information For Applicant:

Address 1	P.O. Box 261		
Address 2			
City	East Islip	**State/Province**	NY
Country	US	Postal Code	11730
Phone Number	631-750-2785	Fax Number	
Email Address	dharper@wirelessink.com		

Additional Applicant Data may be generated within this form by selecting the Add button.

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication . An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON5
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

Signature:

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

Signature	/Joseph B. Ryan/			Date (YYYY-MM-DD)	2014-07-07
First Name	Joseph B.	Last Name	Ryan	Registration Number	37922

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METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

Related Application(s)

The present application is continuation of U.S. Patent Application Serial No. 14/175,768 filed February 7, 2014, which is a continuation of U.S. Patent Application Serial No. 13/364,950 filed February 2, 2012, which is a continuation of U.S. Patent Application Serial No. 13/027,519 filed February 15, 2011 and now issued as U.S. Patent No. 8,135,801, which is a continuation of U.S. Patent Application Serial No. 12/548,928 filed August 27, 2009 and now issued as U.S. Patent No. 7,908,342, which is a continuation of U.S. Patent Application Serial No. 10/464,526 filed June 18, 2003 and now issued as U.S. Patent No. 7,599,983, which claims the priority of U.S. Provisional Application Serial No. 60/389,430 filed June 18, 2002, the disclosures of which are hereby incorporated by reference herein.

Field of the Invention

The present invention relates generally to network-based communication systems, and more particularly to techniques for information content management in such systems.

Background of the Invention

One of the most rapidly expanding aspects of wireless networking involves the accessing of information content over wireless networks via web-enabled mobile devices. Examples of such devices include mobile telephones, personal digital assistants (PDAs), palmtop computers, etc. As is well-known, these and other web-enabled devices not only provide access to the Internet, but can also be used to support other types of wireless networking functionality, such as messaging, distributed collaboration, and location-based services.

An important challenge in this context relates to facilitating the process of creating, publishing, distributing or otherwise managing information content so as to provide optimal presentation consistent with the limited display space and navigational capabilities of typical mobile devices. Many users, for example, may wish to make specific personalized information content available via mobile devices to their friends, colleagues, subscribers or other entities. However, conventional techniques have been unable to meet this need in a satisfactory manner. By way of example, conventional techniques such as web site authoring

tools and web logging ("blogging") are not optimized for use in the generation of information content for shared access via mobile devices.

These and other conventional techniques suffer from a number of significant drawbacks, including a failure to provide suitable integration of messaging, collaboration, location-based services or other wireless networking functionality with the generation of shared information content. As a result, it is generally not possible for different mobile device users to link to and take further action on a persistent version of a given set of shared information content. The conventional techniques thus fail to provide a mechanism that facilitates uniform, action-driven content access and associated user interaction via wireless networks. Also, such techniques generally require a significant amount of programming knowledge for their proper use, and are therefore not suitable for relatively unsophisticated users.

Accordingly, a need exists for improved techniques for managing information content in a manner that overcomes one or more of the drawbacks of the conventional techniques described above.

Summary of the Invention

The present invention in an illustrative embodiment thereof provides techniques for efficient generation and management of mobile sites that are advantageously integrated with wireless networking functionality of a wireless network in a network-based communication system.

In accordance with one aspect of the invention, a method comprises providing an interface permitting a first user to control activation of a mobile information channel through which the first user can share access to content with a plurality of additional users, activating the mobile information channel responsive to input received from the first user via the interface, inserting content provided by the first user into the mobile information channel, receiving additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network, inserting at least a portion of the additional content into the mobile information channel, and integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

In accordance with another aspect of the invention, an apparatus comprises a processing element comprising a processor coupled to a memory. The processing element provides at least a portion of an interface permitting a first user to control activation of a mobile information channel through which the first user can share access to content with a plurality of additional users. The processing element is configured to activate the mobile information channel responsive to input received from the first user via the interface, insert content provided by the first user into the mobile information channel, receive additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network, insert at least a portion of the additional content into the mobile information channel, and integrate into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

In accordance with another aspect of the invention, a network-based communication system comprises a plurality of servers configured to communicate over a network. At least one of the servers provides at least a portion of an interface permitting a first user to control activation of a mobile information channel through which the first user can share access to content with a plurality of additional users. Said at least one server is configured to activate the mobile information channel responsive to input received from the first user via the interface, insert content provided by the first user into the mobile information channel, receive additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network, insert at least a portion of the additional content into the mobile information channel, and integrate into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

Brief Description of the Drawings

FIG. 1A is a block diagram of an example network-based communication system configured in accordance with an illustrative embodiment of the invention.

FIG. 1B is a block diagram showing one possible implementation of a given processing element in the system of FIG. 1A.

FIG. 1C shows a block diagram of one possible arrangement of system elements associated with the system of FIG. 1A.

FIG. 1D shows a schematic diagram of home page of a content management site in the system of FIG. 1A.

FIGS. 2 and 3 show additional schematic diagrams of site pages associated with a content management site in the system of FIG. 1A.

FIGS. 4 and 5 show schematic diagrams of site pages associated with a mobile site in the system of FIG. 1A.

FIGS. 6 through 17b are screenshots of illustrative site pages associated with a content management site in the system of FIG. 1A.

FIG. 18 shows an example mobile device suitable for use in the system of FIG. 1A.

FIG. 19 is an exemplary operational flow diagram of a registration process in accordance with the invention.

FIG. 20 is an exemplary operational flow diagram of a login process in accordance with the invention.

FIG. 21 is an exemplary operational flow diagram of a mobile site creation process in accordance with the invention.

FIG. 22 is an exemplary operational flow diagram of a mobile site content authoring process in accordance with the invention.

FIG. 23 is an exemplary operational flow diagram of a directory process in accordance with the invention.

FIGS. 24a through 25o show typical illustrative examples of mobile site screens generated at a mobile device in the system of FIG. 1A.

Detailed Description

The present invention will be illustrated herein in the context of an exemplary network-based communication system and associated system elements and processes. It is to be appreciated, however, that the particular arrangements shown and described herein are presented by way of illustrative example only, and should therefore not be construed as limiting the scope of the present invention to any particular embodiment or group of embodiments. Those skilled in the art will recognize that the described techniques are more generally applicable to any wireless communication application in which it is desirable to provide improved integration of information content management with wireless network functionality.

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FIG. 1A shows an example network-based communication system 10 configured in accordance with an illustrative embodiment of the invention. The system 10 includes a wireless network 12 coupled to the Internet 14, a set of mobile devices 15, a set of servers 16 and a set of user terminals 18. More specifically, mobile devices 15-1, . . . 15-*n* are coupled to the wireless network 12, while servers 16-1, . . . 16-*k* and user terminals 18-1, . . . 18-*r* are coupled to the Internet 14. The numbers *n*, *k*, and *r* are purely arbitrary, provided for simplicity and clarity of illustration only, and in a given implementation of this illustrative embodiment can take on any desired value. Also, alternative embodiments of the invention need not include the particular system elements shown, and may include other elements of a type and configuration known to those skilled in the art, in place of or in addition to the particular elements shown.

The mobile devices 15 and user terminals 18 may be more generally referred to herein as user devices.

The term "user" is intended to include, without limitation, an individual, a group of individuals, a business, an organization, or any other entity capable of deriving benefit from use of at least a portion of the system 10. Actions described herein as being performed by or otherwise associated with a user may be performed by or otherwise associated with an individual or other entity, a corresponding device, or both the entity and the device.

The network configuration of system 10 illustratively comprises wireless network 12 and Internet 14. However, the invention does not require this particular network arrangement. A network suitable for use with the invention may include any type of data communication network, including the Internet, an intranet, an extranet, a wide area network (WAN), a metropolitan area network (MAN), a wired local area network (LAN), an IEEE 802.11 or Wi-Fi wireless LAN, a satellite communications network, a virtual private network (VPN), a public switched telephone network (PSTN), a cellular network based on third generation (3G) wideband code division multiple access (CDMA) or other standard, as well as portions or combinations of these and other networks.

It is also to be appreciated that the invention is not limited with regard to the particular communication protocols that may be utilized in communicating information within the system 10 of FIG. 1A. Examples of communication protocols utilizable in conjunction with the invention include Internet protocol (IP), transmission control protocol (TCP), user datagram protocol (UDP), real-time protocol (RTP), short message service

(SMS), multimedia message service (MMS), wireless application protocol (WAP), session initiation protocol (SIP), etc.

The mobile devices 15 can collectively comprise a wide variety of different devices configurable for communication over the network 12. The term "mobile device" as used herein is intended to include, without limitation, any type of portable information processing device capable of being configured for communication over a network. Examples of mobile devices 15 utilizable in system 10 of FIG. 1A include a mobile telephone, a personal digital assistant (PDA), a palmtop computer, a hand-held computer, a laptop computer, a tablet computer, a global positioning system (GPS) receiver or other GPS-based navigational device, an MP3 player or other type of audio player, a pager, a watch or other timepiece, a camera, a portable game player, etc.

The servers 16 may comprise, by way of example, network computers or other types of computers or processing elements capable of being configured for the maintenance, storage, delivery or other processing of information received or deliverable over the Internet or other type of network.

Although not specifically denoted as such in the figure, one or more of the user terminals 18 may each comprise a mobile device. Also, a given one of the user terminals 18 may comprise a non-mobile device, including, by way of example, a desktop personal computer, a workstation, a minicomputer, a mainframe computer, a television, a set-top box, a kiosk, etc.

FIG. 1B shows one possible implementation of an information processing element 20 of the system 10. The processing element 20 may be viewed as being representative of a given one of the mobile devices 15, a given one of the servers 16, or a given one of the user terminals 18. The processing element 20 in this implementation includes a processor 22, a memory 24, and a network interface 25, which communicate with one another over a set of bus lines 26. The processor 22 may comprise, for example, a microprocessor, a central processing unit (CPU), an application-specific integrated circuit (ASIC), a computer, or any other type of digital data processing device, as well as portions or combinations of such devices. The memory 24 may comprise electronic memory such as random access memory (RAM), read-only memory (ROM), disk-based memory, or any other type of storage device, as well as portions or combinations of such devices. The network interface 25 provides an interface for the processing element 20 to the wireless network 12 or Internet 14.

The memory 24 of processing element 20 stores one or more software programs which are executed by the processor 22 in providing at least a portion of the system functionality described herein as being associated with the corresponding mobile device, server or user terminal. One skilled in the art would understand that memory 24 is an example of a computer-readable storage medium.

In accordance with one aspect of the invention, the system 10 in the illustrative embodiment provides at least one content management site accessible to a system user. The user may be a user associated with one of the mobile devices 15, or any other system user. The content management site may be supported by one or more of the servers 16, and may be accessed by the user over Internet 14 via one of the user terminals 18. The content management site permits the user to enter information in accordance with a specified format comprising a plurality of selectable mobile information channels each corresponding to an information category. The mobile information channels are also referred to as "M-channels" herein, and will be described in greater detail below. The entered information is processed to generate a mobile web site comprising information content that is accessible via one or more of the mobile devices 15 over the wireless network 12 of the system 10. The information content of the mobile site is preferably configured such that a persistent version thereof is accessible via the one or more mobile devices 15 over the wireless network 12.

The content management site can also be accessed via one of the mobile devices 15, and used to create a mobile site also accessible via that mobile device and one or more other mobile devices.

The system 10 can support any desired number of content management sites and any desired number of mobile sites that are generated and managed via the content management sites. For example, a given content management site can be associated with a particular business or other entity, and can be used to generate a plurality of mobile sites for various users associated with that business or other entity. An operator of the content management site can offer mobile site building and other content management services to such entities for a fee. The operator may also provide customization services, so that a given entity can create mobile sites that bear corresponding corporate trademarks, logos or other symbols, or that are customized in other ways.

In the illustrative embodiment, the content management sites and the mobile sites may each be implemented as a corresponding web site accessible over the Internet 14, although this is not a requirement of the invention. Other embodiments may implement one or more of

the content management sites or one or more of the mobile sites as intranet sites, extranet sites or other information sources accessible via these or other types of networks.

Advantageously, the information content of a given mobile site generated in the system 10 may be configured so as to integrate therewith information associated with at least one wireless networking functionality of the wireless network 12. This information may be determinable based at least in part on one or more parameters associated with the above-noted mobile information channels or M-channels. Examples of such information include information specifying at least one messaging action implementable over the wireless network, information specifying at least one collaboration action implementable over the wireless network, and information specifying at least one location-based service action implementable over the wireless network. Other types of information associated with wireless networking functionalities may also or alternatively be used.

Accessibility to a given mobile site may be controlled so as to permit one or more third parties to view at least a portion of the mobile site without any such parties being registered users of the content management or mobile site portions of the system.

A given content management site may be provided, for example, by a service provider or other entity operating the wireless network 12, and a user thereof may be a subscriber of that entity. More particularly, the content management site may include identifying information indicating association of the site with the entity operating the wireless network, and may be made accessible only to subscribers of the wireless network.

As another example, a given content management site used for generation and management of a mobile site may be provided to the user contingent upon purchase of specified goods or services associated with the wireless network 12.

Numerous other content management site configurations may be used in implementing the invention.

A given mobile site in accordance with the invention can be generated for a group comprising multiple members having a common interest. For example, a mobile site may be generated for a family, a group of friends, a club, a sports team, a business, a sales force, a civic group, a fan group, a political party, a campaign, a charity, or any other type of multi-member organization. Such a site may be used for efficient dissemination of relevant information to group members via the wireless network 12. For example, the site can be used to generate messages, using instant messaging (IM), SMS, MMS, pages, emails, voice-over-IP (VoIP) calls, cellular telephone calls, or any other suitable messaging format, that are sent

to organization members over the wireless network. Such a message from a given member of the organization can direct other members to access the mobile site to obtain additional information regarding events, news, cancellations, reschedulings, updates, polls, special requests, etc. Organization members can easily and efficiently post information and generate messages to other members so as to facilitate collaboration and other types of interaction.

A given mobile site, also by way of example, may be associated with an event, and information identifying the event and its associated mobile site may be transmitted via the wireless network 12 to mobile devices of one or more users that are determined to be likely to have an interest in the subject matter of the event. The event may be a movie, a concert, a sporting event, a political rally, a contest, a promotion, particular goods or services being offered for sale by a vendor at certain prices or on certain conditions, etc. Such interested users may be determined, for example, by comparing generalized demographic data associated with the event with personal demographic data previously stored for the system users, or utilizing other marketing data based techniques. A mobile site of this type is especially useful for implementing follow-up marketing actions, user registration, etc.

As another example, a given mobile site may be associated with a particular geographic location. More specifically, the given mobile site may be generated for a "waypoint" specified by particular latitude and longitude coordinates representing a geographic location utilized in the activity of geocaching, or other location-based activity. In generating such a mobile site utilizing the techniques of the invention, a user could enter information such as a title, a location specified by latitude, longitude, elevation, or other location-identifying information, a difficulty level, a terrain quality, one or more hints, a map, or other types of information. Along with typical items found in a conventional geocache, such as trinkets and a log, a password could be included that provides access to a corresponding mobile site which can be utilized by other users to validate that they have found the geocache. Contests or promotions could also be organized to provide specified rewards to a first user to reach a given geocache. The first user to reach the geocache can be identified by determining the first user to log into the geocache mobile site using the appropriate password. Visitors to the mobile site may be provided with an ability to leave a note or other message describing aspects of their journey, what items they took from the geocache, what items they placed in the geocache, etc. Mobile sites corresponding to geocaches may be searched for by zip code, state, country, keyword, waypoints, GPS coordinates, etc. A mobile device with built-in GPS capability may be used to facilitate

interaction with mobile sites corresponding to geocaches or other geographic locations. Mobile sites corresponding to these and other geographic locations can be accessed, for instance, using a GPS-based automotive navigation device, or other types of user devices.

As an additional example, a given mobile site may be associated with a game. More specifically, a mobile site may be generated for a game and accessed from a web-enabled gaming device or other type of user device. The mobile site could provide information such as tips, tricks, player profiles, and player locations, and could also be used to support collaboration or other types of communication between players. Players may also be permitted to access the mobile site from non-gaming user devices, to participate in game-related activities that could lead to increasing their health points, skill level, number of lives, hit points, magic level, equipment, apparatus, gear, etc.

As a further example, a given mobile site may be associated with a user of IM, SMS, MMS, email or other type of messaging service. More specifically, a mobile site may be generated for a particular user so that other users exchanging messages with the particular user are provided with access to persistent information content that facilitates their interaction with the particular user. Such an arrangement is particularly useful as the volume of wireless "spam" is continually increasing and users require an "island in the storm" at which they can interact in a controlled, private collaborative workspace. Additionally, when a user accesses an email or other type of message using a mobile device, that user can be directed to a mobile site for follow-up marketing actions or other activities.

As another example, a given mobile site may be associated with a television program, movie, music artist or other entertainment-related entity. More specifically, a mobile site may be generated for a broadcast program and accessed by a user from a set-top box while the user is watching that program. Interaction activities involving provided content could then take place between viewers, the network, and advertisers.

As yet another example, a given mobile site may be associated with a particular product via product name, bar code, radio frequency identification (RFID), or other type of product-identifying information. Such a mobile site could be configured to provide, for its associated product, additional information of interest to product users, customer service access, ordering or purchase support, etc.

Of course, the foregoing are merely examples of mobile sites that may be generated and managed using the techniques of the invention. Numerous other types of mobile sites may be used in implementing the present invention.

The term "mobile site" as used herein is intended to include, without limitation, a web site, a collaborative workspace, a data mailbox, a collaborative community, an Internet storefront, one or more M-channels and/or an associated data set, or other similar element(s), as well as portions or combinations thereof.

The above-noted M-channels will now be described in greater detail. As mentioned previously, M-channels are utilized at the content management site of the illustrative embodiment to facilitate the generation of mobile sites and the management of associated content. More specifically, the M-channels allow unsophisticated users to easily and efficiently author message data or other types of information content to be made accessible via a collaborative workspace, a data mailbox, a collaborative community, or other type of mobile site or portion thereof generated or otherwise managed in the system 10. Features such as task, action, event, location, delivery or collaborative enabling of specified M-channel content may be specified along with access methods, automatic generation of wirelessly accessible navigation menus, content presentation views, etc.

The particular configuration of the M-channels, and the content integration options associated therewith, may vary from implementation to implementation depending upon factors such as the particular wireless networking functionalities available in the system.

Examples of M-channels suitable for use in the illustrative embodiment include channels denoted herein as mobile ID/business card (also referred to as a "contact" M-channel), announcements, chat, events, guest book, diary/journal, bookmarks/links, discussion forum, survey/poll, newsletter/zine, notes, email, address book, contribute/donate, mobile volunteer management, company directory, in/out board, field reports, feedback, form builder, live data/in-out syndication, mobile document library, products catalog/shopping cart, services catalog/shopping cart, appointments, task list/assignments, promotions, offers, coupons, sweepstakes, contests, photo blog, etc. Numerous other information categories may be represented by corresponding mobile information channels at a content management site in accordance with the invention.

The notation "/" as used herein should be understood to refer to "and/or" unless otherwise indicated.

Additional details regarding the operation of exemplary M-channels in accordance with the invention will be described below in conjunction with certain of the site pages of FIGS. 2 through 17, as well as in conjunction with the operational flow diagrams of FIGS. 21 and 22.

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As indicated previously, the content management aspects of the system 10 can be implemented at least in part utilizing software associated with processing elements of the system. A more particular example of one possible arrangement of such elements will now be described in conjunction with FIG. 1C. Of course, this is simply one possible arrangement, and a wide variety of other arrangements suitable for implementing the techniques of the invention will be readily apparent to those skilled in the art.

Referring now to FIG. 1C, a set of processing elements 30 in the system 10 includes a plurality of "suites," each suite comprising a particular arrangement of hardware, software and/or firmware elements implemented using one or more of the mobile devices 15, servers 16 and user terminals 18 of the system 10. More specifically, the set of processing elements 30 comprises a display suite 32 associated with a display server 33, a management and processing suite 34 associated with an interaction server 35, a data integration suite 36 associated with a data integration server 37, and a services integration suite 38 associated with a services integration server 39. Each of the servers 33, 35, 37 and 39 may comprise one or more of the servers 16 or other elements shown in FIG. 1A, or suitable portions or combinations thereof.

Communications between the suites 32, 34, 36 and 38 may be carried out using conventional connections established over wireless network 12 or Internet 14, or using other communication channels or transport media of a type known in the art.

In the display suite 32, a number of example user devices, including mobile phone 40, smart phone 41, pocket PC 42, Palm device 43, iMode phone 44, personal computer 45, set-top box 46, game and/or camera 47 and other wireless devices 48, interact with the display server 33. The display server 33 interacts with elements of one or more of the other suites in controlling the presentation of particular screens on the various user devices. Certain of the user devices in suite 32 may be viewed as representative examples of mobile devices 15, while others may be viewed as representative examples of user terminals 18.

The management and processing suite 34 includes a management and M-channel engine 50, a personalization and rules engine 51, an authoring and publishing engine 52, a presentation engine 53, and a distribution, delivery and service engine 54. The interaction server 35 controls the interface between these engines and the display server 33 of the display suite 32. The management and processing suite 34 in this example provides the above-noted content management site(s) utilized to generate and otherwise manage mobile sites in accordance with the techniques of the invention.

The data integration suite 36 includes extensible markup language (XML) and/or rich site summary (RSS) feeds 60, database and/or file 61, syndication services 62, device-captured data 63, web services 64, and other data sources 65. The data integration server 37 controls the interface between these data sources and the interaction server 35 of the management and processing suite 34.

Other XML-related protocols that may be utilized in conjunction with the invention include, for example, remote procedure call (RPC), outline processor markup language (OPML), and simple object access protocol (SOAP).

The services integration suite 38 includes an MMS center 70, an SMS center 71, email systems 72, billing systems 73, voice systems 74, and other systems 75, each of which may be viewed as representative of a particular type of wireless networking functionality accessible to the mobile devices 15 via the wireless network 12. The services integration server 39 controls the integration of information associated with these wireless networking functionalities with the content of the mobile site generated via the content management site.

FIG. 1D shows a home page of an example content management site in the illustrative embodiment of the invention. The example content management site in the context of the illustrative embodiment comprises an Internet web site used to generate and otherwise manage mobile sites. A given one of the mobile sites may be referred to herein as a "Winksite," where "Wink" may be viewed generally as a shortened form of the term "wireless ink," reflecting the wireless content management aspects of the invention.

It is to be appreciated that certain aspects of the content management site may be made accessible via one or more of the mobile sites and vice-versa. The notation "Winksite" may therefore also be used to denote a content management site or portion thereof, or a hybrid site comprising aspects of both a content management site and one or more mobile sites.

Additional schematic diagrams of web pages associated with the example content management site or a corresponding mobile site will be described in conjunction with FIGS. 2 through 5. Related screenshots of the web pages associated with the content management site will be described with reference to FIGS. 6 through 17. It should again be emphasized, however, that the arrangements shown are presented by way of illustrative example, and should therefore not be construed as limiting the scope of the invention in any way.

The content management site may be viewed as being part of a mobile communications publishing platform provided by the system 10 of FIG. 1A. This platform

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integrates aspects of wireless network functionality with mobile site content generation, thereby facilitating user interaction via the mobile devices 15. The content management site in the illustrative embodiment is designed to generate and otherwise manage dynamic, time-sensitive, task-oriented mobile sites, including wireless collaborative workspaces and communities. The content management site allows content such as data, media, multimedia, messages, news, features, events, polls, competitions and advertising to be rapidly created, entered into the system, and then subsequently syndicated, distributed, shared, collaborated with or acted upon by users of mobile devices.

By utilizing the content management site, system users can create one or more personal or business mobile sites with various sets of features, and then share such sites via the mobile Internet or other wireless network with friends, family, colleagues, or other groups of any type. The content management site makes it simple for unsophisticated users to upload, enter, create, syndicate, distribute or otherwise manage content that is important to them, in a manner that allows such content to be accessed, shared, and acted upon from a mobile device.

Referring now to FIG. 1D, a home page 100 of the content management site provides a user interface comprising a series of display regions denoted by blocks 102 through 142, each associated with a corresponding user-activatable control mechanism. These control mechanisms may be implemented as a plurality of hypertext links, each of which, when activated, instantiates a subordinate user interface comprising one or more other pages of data associated with the content management site. The home page 100 and other pages referred to herein may be configured using hypertext markup language (HTML), XML, or other any suitable web page formatting language, as well as combinations of such languages.

Access to the home page 100 may be provided to all system users, regardless of whether or not those users have previously registered with the system. A given user accesses the home page 100 by entering a corresponding uniform resource locator (URL) in a web browser of their associated user device. Although not specifically shown in the figure, introductory, instructional or other explanatory text, as well as graphics and various forms of advertising, including so-called click-through or banner advertising, may be included on the home page 100.

A registration process is preferably provided in order to allow users to establish an account with the system. Such a process can be initiated by activation of the hyperlink associated with block 104. Previously-registered users can login to their accounts by

activating the hyperlink associated with block 102. Details of the registration and login processes associated with respective blocks 104 and 102 will be described below in conjunction with the respective flow diagrams of FIGS. 19 and 20.

Access to certain system features associated with certain blocks, such as blocks 108 through 124, may be limited to registered users. Registered users may also be referred to herein as "members."

The text and graphics of the home page 100, although initially the same for both registered and unregistered users, may be periodically updated or otherwise customized to display account information or other information that is unique to a registered user, upon login of such a user.

Block 106 in FIG. 1D represents a display region containing a link to an optional logoff process. The logoff process enables a registered user who has previously logged in to activate a control so as to redirect his or her browser to the non-customized version of home page 100. This feature is useful, for example, in a situation in which multiple users share the same personal computer or other terminal. More specifically, a given registered user who has logged in may, without turning off the computer or closing its Internet connection, and even without closing the browser or pointing it to another URL, conceal and prevent further access to his or her account information while also enabling another registered or unregistered user to access the home page 100.

FIG. 2 shows a start page 200 of the example content management site in the illustrative embodiment of the invention. The start page 200 provides a user interface comprising a series of display regions denoted by blocks 202 through 242, each associated with a corresponding user-activatable hypertext link or other control mechanism. The start page 200 may be accessed, for example, by activating the link associated with block 108 of FIG. 1D.

FIG. 3 shows a main menu page 300 of the example content management site in the illustrative embodiment of the invention. The main menu page 300 provides a user interface comprising a series of display regions denoted by blocks 302 through 344, each associated with a corresponding user-activatable hypertext link or other control mechanism. The main menu page 300 may be accessed, for example, by activating the link associated with block 222 of FIG. 2.

An example of a preference feature that may be made available only to registered users is an address book feature. This feature can be accessed by activating the link

associated with block 320 in FIG. 3. Such a feature allows the names, email addresses, mobile telephone numbers and other contact information of potential message recipients to be recorded and then easily selected when a message is to be sent.

A given registered user may be permitted to elect to share his or her address book information, or other types of user information, with other users. Such sharing can be implemented by activating a link (not shown) to a page where the user may provide identifying information about the other individual(s) with whom he or she proposes to share information. The site software may be configured such that, if any of the other individuals are registered users, an email message is sent to those individuals. The email message may contain a link to the URL of a page at which the individuals will be given the option of accepting or declining the information sharing proposal.

If any of the other individuals are not registered users, then an attempt may be made to obtain an email address for each of those other non-registered users. For any such non-registered users for which an email address is obtained, an email message may be sent containing a link, along with appropriate explanatory text, to the site registration process to be described in conjunction with FIG. 19. After completing the registration process, the individual will be given the option of accepting or declining the information sharing proposal.

A given registered user may also be permitted to designate one or more other users selected, for example, from among those listed in a directory or contact list, with whom the given user would like to interact. Any such other users may be notified in the manner indicated above and provided with an opportunity to accept or deny the proposed interaction.

Another preference feature that may be provided to registered users is an ability to designate one or more of the mobile sites available in the directory of the content management site as "favorite" mobile sites. This can substantially reduce the number of screens or pages that need be reviewed in order to select a particular mobile site to visit. However, it should be understood that registered users who have designated certain mobile sites as favorite mobile sites are not thereafter limited to making their selections only from among those favorites. Each such user may still choose to review and select from all of the available mobile sites within the directory.

Yet another preference feature that may be made available to registered users is an ability to post one or more messages on a "community bulletin board" that is accessible to both registered and non-registered users. This feature allows non-registered users to become

aware of the messages posted by registered users, thereby encouraging further registrations and increasing use of the site.

Registered users may also be permitted to track the activity of their associated mobile sites by creating, selecting or otherwise designating an avatar whose health, personality, responses, behavior or other characteristics reflects in some manner the level of activity associated with the sites. Such an avatar may be used to provide an "at a glance" representation of the popularity, usage, traffic patterns or other characteristic(s) of a corresponding mobile site.

It is also possible to provide different levels of service for different registered users. For example, certain registered users may be permitted to elect to upgrade their registration to one or more "preferred" levels of service. The various levels of service may be designated using different colors or other sets of designations, such as "copper," "silver," "gold" and "platinum," or "individual," "individual plus," "business" and "business plus." As their registration level increases, the corresponding registered users will receive additional benefits, such as increased storage space, bandwidth or publishing features and options.

A variety of other techniques may be used to encourage user registration. For example, demographic data or other types of marketing data may be used to identify particular groups likely to benefit from registration, and particular mobile sites can be pre-created and made available to such groups on a trial basis, upon registration, or upon satisfaction of other conditions. The mobile site addresses for all of the members of each group will preferably reflect in some common way one or more unique characteristics of the group.

Referring now to FIGS. 4 and 5, these figures show a mobile site home (M-home) page 400 and a Winksite page 500, respectively, of an example mobile site in the illustrative embodiment of the invention. The pages 400 and 500 provide user interfaces comprising series of display regions denoted by blocks 402 through 432, and 502 through 544, respectively, with each of the blocks being associated with a corresponding user-activatable hypertext link or other control mechanism. The mobile site home page 400 may be accessed, for example, by entering a corresponding URL of the mobile site into a browser at one of the mobile devices 15. The Winksite page 500 may be accessed, for example, by activating the link associated with block 402 of FIG. 4 and completing an associated login process.

As noted above, FIGS. 6 through 17 are screenshots of illustrative site pages associated with a content management site in the system of FIG. 1A. These screenshots will now be described in greater detail.

With reference to FIG. 6, an example of a home page of the content management site is shown. This home page screenshot may be viewed as corresponding generally to the home page 100 schematically shown in FIG. 1D. The home page in this example includes, among other elements, elements 602 through 658 arranged as shown. A web site logo 602 can be included, along with site branding and promotional copy 638, associated with an entity providing the content management site. A login section includes fields 604 and 606 for entering respective user name and password information, along with a "Start in" selector 608 and a login button 610. The home page further includes links 612, 614, 618, 622, 624, 630, 632, 634, 636, 646, 648, 650, 652, 654, 656, 658 and 660, banner advertisements 620, explanatory text 640, a feedback entry field 642, and a user information submission field 644.

FIG. 7 shows an example of a start page of the content management site. This start page screenshot may be viewed as corresponding generally to the start page 200 schematically shown in FIG. 2. The start page in this example includes, among other elements, a logout link 700, user account information 702, account settings links 704, information 706 specifying the mobile sites associated with that user, and a link 708 allowing the user to build a new mobile site.

A given registered user, after initial registration, may access his or her registration information directly, on an as-needed basis, in order to make changes therein as appropriate. For example, a registered user may wish to change his or her password or username, or to provide updated address or contact information. The account information link in the set of account setting links 704 instantiates a subordinate user interface comprising a site page that may be configured as shown in FIG. 14. Other links in the set of account setting links 704 similarly provide access to pages allowing entry or revision of information associated with a user M-card, profile, interests, offers, etc.

FIG. 8 shows an example of a main menu page of the content management site for managing a given mobile site associated with a system user. This main menu page screenshot may be viewed as corresponding generally to the main menu page 300 schematically shown in FIG. 3. The main menu page in this example includes information 802 identifying user account information and the particular mobile sites associated with that user, page

navigational links 804, mobile site information 806 associated with a selected one of the mobile sites associated with the user, M-channel information 808, and a delete site field 810.

FIGS. 9A and 9B show example M-channel pages of the content management site. These pages correspond generally to particular ones of the M-channels identified in M-channel information 808 of a selected mobile site in FIG. 8.

With reference initially to FIG. 9A, the page as shown corresponds to an M-channel for which the user has not yet entered any content. The page includes a button 900 which permits a user to add an item of content to the M-channel, and explanatory text 902 which indicates that the user currently has no content in the channel, and describes the manner in which the user can add content items to the channel.

FIG. 9B shows a page for which the user has added an item of content. The page includes information 904 specifying, among other things, the title or name of the content item, the date and time of its posting to the site, and its status. If the item has a "published" status, the corresponding content is visible to users visiting the associated mobile site. If the item has an "unpublished" status, the corresponding content is not visible to users visiting the associated mobile site.

FIG. 10 shows an example page for use in adding content to a given one of the M-channels. This page may be accessed, for example, upon activation of the add button 900 in the M-channel page of FIG. 9A.

The content management site of the system 10 in the illustrative embodiment thus allows a user to manage content for access via the mobile devices 15 by interaction with one or more specified M-channels. As indicated above, a user selects a particular M-channel by activating the corresponding link 808 in FIG. 8. This action instantiates a subordinate user interface to the selected M-Channel, represented by the page shown in FIG. 9A. The user then activates the add button 900 of FIG. 9A, which instantiates a subordinate user interface to an authoring wizard associated with that M-channel, represented by the page shown in FIG. 10.

FIG. 11 shows an example page for use in managing a contact list associated with one or more of the M-channels. This page may be accessed, for example, from the main menu page 300.

FIG. 12 shows an example page for use in adding a new contact to the contact list of FIG. 11. This page may be accessed, for example, by activating an "add an item" button in the page of FIG. 11.

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FIG. 13 shows an example page for use in creating a new mobile site. This page may be accessed, for example, by activating the "build new site" link 708 in the start page of FIG. 7. The mobile site creation page includes fields allowing a user to name the mobile site, to specify a URL for the mobile site, and to enter a description of the mobile site.

FIG. 14 shows an example page for use in establishing or updating a user account with the system. This page may be accessed, for example, as part of a registration process initiated by activating the link associated with block 104 in FIG. 1D, or by activating the link associated with block 228 of the start page in FIG. 2.

FIG. 15 shows an example page of member list results generated by performing a search in the member directory of the content management site. The directory may be accessed, for example, by activating the link associated with block 110 in FIG. 1D or the link associated with block 208 in FIG. 2.

FIG. 16 shows an example page for automated response management. This page may be accessed, for example, from the main menu page 300.

FIGS. 17A and 17B show example pages corresponding to a user identification card or business card, also referred to herein as an M-card, or part of a contact M-channel. Such pages may be accessed, for example, by activating links associated with blocks 218 in FIG. 2 or 528 in FIG. 5.

Exemplary mobile site pages will now be described in greater detail with reference to FIGS. 18, 24 and 25.

FIG. 18 shows an example mobile device 15-1 suitable for use in the system of FIG. 1A. The mobile device 15-1 in this example is in the form of a web-enabled mobile telephone, but as indicated previously herein, the invention does not require the use of any particular type or configuration of mobile device. The mobile device 15-1 as shown in FIG. 18 includes a display screen 1800 on which an example screenshot associated with a mobile site main menu page is shown. This screenshot may correspond, for example, to a portion of the page 400 previously described in conjunction with FIG. 4. Additional example screenshots that may be viewed as being generally associated with the mobile site main menu page 400 or the mobile site page 500 are shown in FIGS. 24A-24G and FIGS. 25A-25O.

The operation of certain aspects of the system 10 of FIG. 1A will now be described with reference to the flow diagrams of FIGS. 19 through 23.

FIG. 19 shows an example registration process (R) accessible via the content management site. A user enters the registration process at step 1900, and is prompted to

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create a user name and password in step 1902, to provide account information that includes a variety of personal information such as first name, last name, date of birth and gender in step 1904, to provide mobile phone information in step 1906, and to provide a variety of location information such as zip code, state, country and time zone in step 1908. The entered information establishes a personal profile for the user, and is stored in a memory or other storage device associated with the content management site.

In step 1910, the user reviews legal information pertaining to the use of the content management site and its terms of service. Step 1912 determines whether the user is of the requisite age to use the site, step 1914 determines if the user accepts specified terms and conditions, step 1916 determines if the submitted information will be accepted or declined, and step 1918 determines if valid information has been submitted. A negative determination in any of steps 1912, 1914 and 1918 results in the process returning to step 1900 to allow the user to make at least one more registration attempt. A negative determination in step 1916 terminates the registration process and returns the user to the home page (HP) from which the registration process was initiated, as indicated at 1930.

After positive determinations in steps 1912, 1914, 1916 and 1918, a database entry is created for the user in step 1920, a user URL and redirect file are created in step 1922, a welcoming email is sent to the user in step 1924, and the registration is completed in step 1926. At this point, a user may be permitted to build a mobile site, as indicated by the transition to the site building indicator (B).

Referring now to FIG. 20, an example login process (L) accessible via the content management site is shown. A user enters a login page at step 2000, and is requested at step 2002 to confirm that he or she is a "member," i.e., that he or she is already registered with the system. If the user is not registered, a link to the registration process (R) described previously and depicted in FIG. 19 is activated. Otherwise, step 2004 determines if the user has forgotten his or her password. If this is the case, steps 2006 through 2012 are executed to prompt the user to enter a user name, and/or other identifying information, and to click a send button, such that an email containing the forgotten password is then sent to the user, after which the process returns to step 2000. A negative determination in step 2004 results in execution of steps 2014 through 2018, prompting the user to enter a user name and password, to select an area of the content management site to start in, and to click a button to submit the login information. Step 2020 determines if the submitted login information is correct. If it is, the process ends, and the user can be directed, for example, to the home page (HP), the

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directory (D), the start page (SP), or to any other desired page of the site. The resulting presented page is preferably customized to include information specific to the user, such as the information shown generally at 702 in FIG. 7.

If the login information entered by the user is incorrect, the process may return to step 2000 so that correct or more current login information may be submitted. While in some embodiments of the invention these verification steps could be repeated indefinitely, it is preferable to place a limit on the number of times that the system will continue to attempt such verification without success, after which the login process will end and no further submissions of login information will be accepted from that user until some specified remedial action takes place. Similar restrictions may be placed on repetition of the registration process previously described in conjunction with FIG. 19.

FIG. 21 shows an example process for creating a mobile site using the content management site. This process may be accessed, for example, upon completion of the registration process, or upon activation of the link associated with block 226 of FIG. 2. After initiation of the mobile site creation process in step 2100, the user is prompted in step 2102 to enter a site title, in step 2104 to enter a site URL, in 2106 to enter a site description, in step 2108 to enter a category, and in step 2110 to enter keywords. Steps 2102 to 2110 should be viewed as examples of the type of information a registered user could be asked to enter in order to create the mobile site, but a given mobile site in accordance with the invention can of course be created using other types of information.

Step 2112 determines if the submitted information is to be saved or canceled. The latter results in the process being directed to the home page (HP), the start page (SP), or other specified page of the content management site. If the submitted information is to be saved, step 2114 determines if the submitted information is valid. If the submitted information is not valid, the process returns to step 2100 to allow the user at least one additional attempt to create the mobile site. A positive determination in step 2114 results in the execution of content and/or data device formatting step 2116, database entry creation step 2118, and site URL and redirect file creation step 2120. The URL is used to access the mobile site that is created as a result of the FIG. 21 process.

Step 2122 represents the start of an M-channel selection wizard. From the M-channel selection wizard step, the user can choose a template, task and/or goal in step 2124, choose appropriate fields in step 2126, and select desired options in step 2130. At this point, the process generates the appropriate rules for the display engine in step 2132, and then activates

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or otherwise generates one or more M-channels for the mobile site in step 2134. The result is a site specific M-channel list as indicated in step 2146, an example of which was previously described in conjunction with the screenshot of FIG. 8. Supplementary to this portion of the process, the user is also provided with an opportunity in steps 2136, 2138, 2140, 2142 and 2144 of FIG. 21 to add additional M-channels, options, external services, and the like to the mobile site. Any such added elements are taken into account in generating the site specific M-channel list in step 2146. At the completion of step 2146, the process returns to the main menu (MM), from which the M-channel wizard step 2122 can again be initiated to further modify the previously-created mobile site.

Turning now to FIG. 22, an example process for content authoring at the content management site is shown. The user in step 2202 selects a particular M-channel for which the content is to be authored. Step 2204 generates an M-channel content list, and step 2206 allows the status of the various content items to be changed from published to unpublished and vice-versa. Steps 2208 and 2210 allow content items on the M-channel content list to be erased. From the M-channel content list generated in step 2204, an item authoring wizard may be initiated in step 2212. This wizard facilitates the authoring of a content item by prompting the user to enter date and time in step 2214, to enter a title in step 2216, to enter message content, data template or both in step 2218, to select or upload media in step 2220, to select distribution, delivery and service options in step 2224, and to select publishing options in step 2226.

Selectable or uploadable media may include, for example, an XML/RSS feed, a database entry, a syndication item, a document, a video, a photo, a graphic, a music file, etc. Distribution, delivery and service options may include, for example, a distribution list based on group(s) or individual(s), SMS delivery, MMS delivery, email delivery, WAP availability, syndication availability, particular content to be combined or otherwise integrated with the content item upon delivery, etc. The publishing options may specify launch date, expiration date, private, public, group-specific, etc.

Step 2230 determines if a save button or a cancel button has been activated. Activation of the cancel button returns the process to the M-channel content list in step 2204. Activation of the save button causes formatting of the message content and/or data device in step 2232. Step 2234 determines if media has been selected for upload. If so, the selected media is uploaded in step 2236. In any case, step 2238 then determines if distribution, delivery and service options have been set. A positive determination results in the setting of

the distribution, delivery and service options in step 2240. The process then proceeds to step 2242, in which the generated content item and its associated settings are saved, preferably by storage in a database or other memory or storage device of the system, as indicated at 2244. The process then returns to the M-channel content list in step 2202.

Step 2246 initiates a distribution, delivery and service engine which sends the content item out to a rules-based display engine in step 2250 which then, driven by the options previously selected in steps 2224 and 2226, handles the presentation of the content in a manner appropriate to the mobile devices 15 on which it is to be viewed. The distribution, delivery and service engine may also take into account one or more external services 2248 as indicated. The display engine further provides appropriate interaction mechanisms consistent with the content and its associated options. In addition, alerts and/or other messages can be sent out in step 2252 based on options selected in step 2224 for notifying the recipient(s) that the content item is now available for access via the mobile site. The M-channel content list, and more specifically the item view associated with the particular content item, are updated as appropriate, in steps 2254 and 2256.

FIG. 23 shows an example directory process that may be implemented at the content management site. The directory process is initiated in step 2302, and in step 2304 permits a user to go directly to another user, which may result in the retrieval at step 2306 of the identification card or business card, also referred to herein as an M-card, of the other user. It is also possible in step 2314 to perform a member search, which may include specifying in steps 2316, 2318 and 2320 the respective beginning, containing or ending parameters of the member name. This leads to a member results list in step 2321 that can be used to retrieve one or more M-cards in step 2306. Another option is to view a member list, as indicated in step 2322, from which the user can select a letter and/or a number, leading again to a member results list in step 2321. The M-cards retrieved in step 2306 can be used to provide user profile information in step 2308, to view a mobile site or sites associated with the corresponding user(s) in step 2310, or to call via direct dial or otherwise the corresponding user(s) in step 2312. The direct dial call may be placed to a phone (P) or any other device capable of participating in a voice or data call.

It is also possible from the directory step 2302 to initiate a site search in step 2330, which may include specifying in steps 2332, 2334 and 2336 the respective beginning, containing or ending parameters of the desired site. This leads to a site results list in step 2338 that can be used to retrieve one or more user mobile sites in step 2340. Other mobile

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site directory functions include generation of a site list in step 2350, leading to user selection of a letter and/or a number in step 2352, generation of site categories in step 2360, leading to user selection of a category in step 2362, and generation of keywords in step 2370, leading to user entry of a particular keyword or keywords in step 2372. Each of these functions results in generation of a site results list in step 2338, from which a user mobile site can be accessed in step 2340.

It is to be appreciated that the processes and their associated steps as described in conjunction with the operational flow diagrams of FIGS. 19 through 23 are merely exemplary, and the invention does not require the particular steps shown, or their particular order of execution.

The above-described illustrative embodiment of the invention provides a number of significant advantages relative to conventional techniques.

For example, the system 10 as described herein is advantageous in that it can be used to allow content providers to cost-effectively publish, distribute and generate revenue from a mobile content service.

Also, the system provides a platform for the development of a wide variety of personalized content applications for users of mobile devices, thereby allowing wireless network service providers not only to increase their subscriber base, but also to reduce turnover in their subscriber base.

Furthermore, the invention allows users to more efficiently communicate, collaborate and otherwise interact with their friends or colleagues instantly and seamlessly within a single system that provides a mobile web site integrating existing wireless networking functionalities, such as IM, SMS, MMS, location-based services, or email, with personally authored content.

Yet another advantage of the system described in conjunction with the illustrative embodiment is that it does not require users to download and install any particular client-side software. The generation of a given mobile site and the management of the content associated therewith is driven in the illustrative embodiment from the content management site at the server side of the system, accessible via a standard browser. The system is configured to operate independently of the user device operating system or other user device configuration parameters, such that a given user may author, create, publish, send, convey, share, receive, respond to, subscribe to, collaborate with, track, transact, maintain and

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manage personalized messaging content from any type of user device running any operating system.

It should again be emphasized that the illustrative embodiment as described above is presented by way of example only, and should not be construed as limiting in any way. Numerous alternative embodiments within the scope of the appended claims will be readily apparent to those skilled in the art.

Claims

What is claimed is:

1. A method comprising:

providing an interface permitting a first user to control activation of a mobile information channel through which the first user can share access to content with a plurality of additional users;

activating the mobile information channel responsive to input received from the first user via the interface;

inserting content provided by the first user into the mobile information channel;

receiving additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network;

inserting at least a portion of the additional content into the mobile information channel; and

integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

2. The method of claim 1 wherein the information associated with at least one wireless networking functionality of said at least one wireless network comprises location information of a given one of the mobile devices from which at least a portion of the additional content is received.

3. The method of claim 1 wherein integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network comprises:

obtaining location information of a given one of the mobile devices from which at least a portion of the additional content is received; and

inserting content into the mobile information channel based on the obtained location information.

4. The method of claim 1 wherein integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network comprises:

obtaining product-identifying information over said at least one wireless network; and

inserting content into the mobile information channel based on the obtained product-identifying information.

5. The method of claim 4 wherein inserting content into the mobile information channel based on the received product-identifying information comprises inserting information relating to at least one of product ordering and product purchase support.

6. The method of claim 1 wherein the information associated with at least one wireless networking functionality of said at least one wireless network comprises location-based service information.

7. The method of claim 1 wherein the information associated with at least one wireless networking functionality of said at least one wireless network comprises one or more messaging actions implementable over the wireless network.

8. The method of claim 1 wherein the information associated with at least one wireless networking functionality of said at least one wireless network comprises one or more collaboration actions implementable over the wireless network.

9. The method of claim 1 further comprising providing one or more content integration options to the first user and the plurality of additional users.

10. The method of claim 9 wherein the one or more content integration options are based in part on respective wireless networking functionalities available to the first user and the plurality of additional users.

11. The method of claim 1 wherein the additional content is associated with the mobile information channel via one or more user-activatable control mechanisms.

12. The method of claim 11 wherein the one or more user-activatable control mechanisms comprise a hyperlink.

13. The method of claim 1 wherein inserting at least a portion of the additional content into the mobile information channel comprises inserting advertising content into the mobile information channel along with said portion of the additional content.

14. The method of claim 1, wherein at least a portion of the additional content is obtained from a device-captured data source of the given user, the device-captured data source comprising a source of at least one of device-captured video data, device-captured audio data and device-captured location coordinates.

15. The method of claim 1 wherein the mobile information channel comprises a collaborative workspace.

16. The method of claim 1 further comprising permitting the first user to establish a title for the mobile information channel.

17. A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs for use in managing information content in a network-based communication system, wherein said executable program code when executed by a processing element of the communication system implements the steps of the method of claim 1.

18. An apparatus comprising:

a processing element comprising a processor coupled to a memory;

the processing element providing at least a portion of an interface permitting a first user to control activation of a mobile information channel through which the first user can share access to content with a plurality of additional users;

the processing element being configured to:

activate the mobile information channel responsive to input received from the first user via the interface;

insert content provided by the first user into the mobile information channel;

receive additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network;

insert at least a portion of the additional content into the mobile information channel; and

integrate into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

19. The apparatus of claim 18 wherein the processing element comprises at least one server accessible over the Internet via a network interface.

20. A network-based communication system, comprising:

a plurality of servers configured to communicate over a network;

at least one of the servers providing at least a portion of an interface permitting a first user to control activation of a mobile information channel through which the first user can share access to content with a plurality of additional users;

wherein said at least one server is configured to:

activate the mobile information channel responsive to input received from the first user via the interface;

insert content provided by the first user into the mobile information channel;

receive additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network;

insert at least a portion of the additional content into the mobile information channel; and

integrate into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

Abstract

A method comprises providing an interface permitting a first user to control activation of a mobile information channel through which the first user can share access to content with a plurality of additional users, activating the mobile information channel responsive to input received from the first user via the interface, inserting content provided by the first user into the mobile information channel, receiving additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network, inserting at least a portion of the additional content into the mobile information channel, and integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

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Docket No. 1018-2 CON4

Outside Counsel Docket No. 1018-2 CON4

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☑ United States application or PCT international application number 14/175,768 filed on February 7, 2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: David Walker Harper Date: 3/27/2014

Signature: 

Docket No. 1018-2 CON4

Outside Counsel Docket No. 1018-2 CON4

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☑ United States application or PCT international application number 14/175,768 filed on February 7, 2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

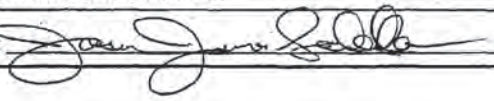
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Jason James Sabella Date: 3/27/2014

Signature: 

Docket No. 1018-2 CON4

Outside Counsel Docket No. 1018-2 CON4

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☑ United States application or PCT international application number 14/175,768 filed on February 7, 2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: William Henry Munch Date: 3/30/14

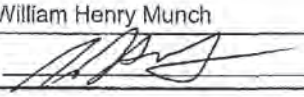
Signature: 

FIG. 1A

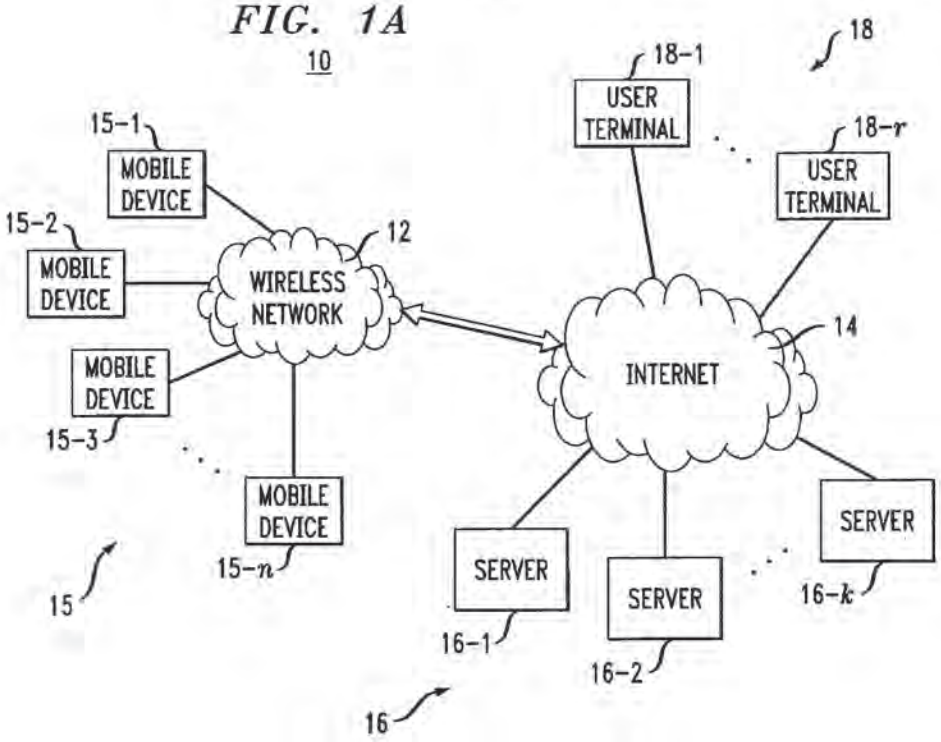
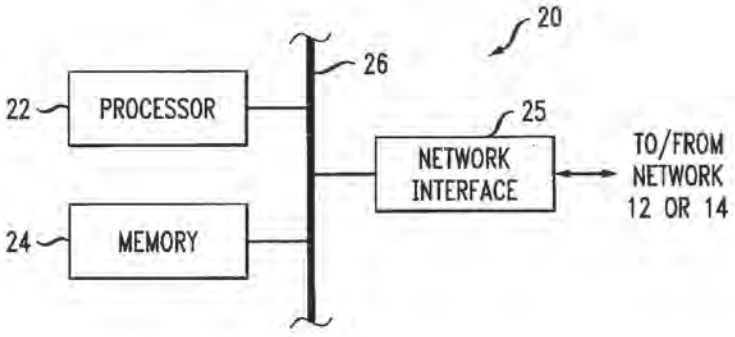

10
18
18-1
USER TERMINAL
18-r
USER TERMINAL
15-1
MOBILE DEVICE
15-2
MOBILE DEVICE
12
WIRELESS NETWORK
MOBILE DEVICE
15-3
MOBILE DEVICE
15-n
15
14
INTERNET
SERVER
16-1
SERVER
16-2
SERVER
16-k
16

FIG. 1B


20
26
22
PROCESSOR
25
NETWORK INTERFACE
TO/FROM NETWORK 12 OR 14
24
MEMORY

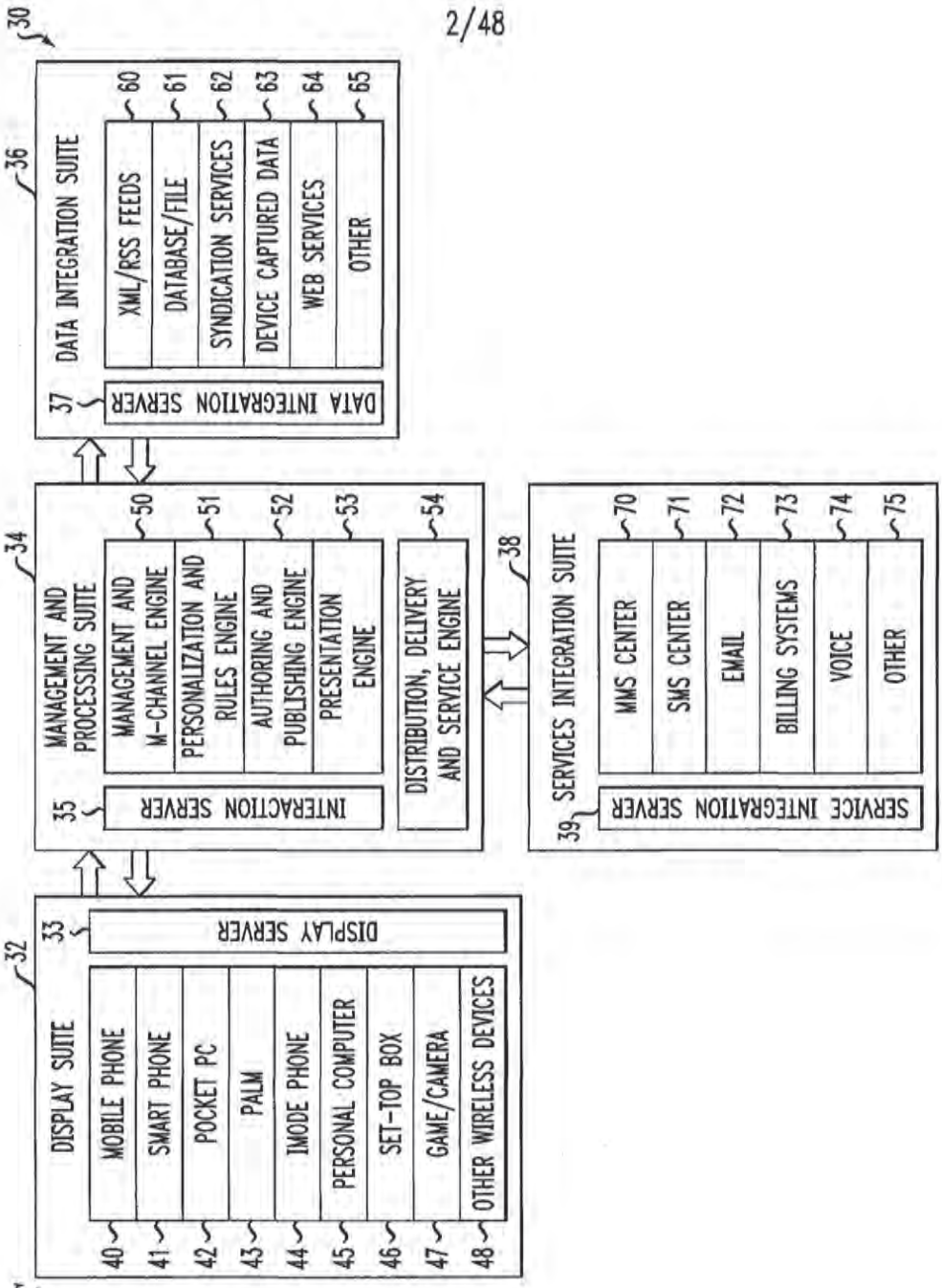

30
36
DATA INTEGRATION SUITE
60
61
62
63
64
65
XML/RSS FEEDS
DATABASE/FILE
SYNDICATION SERVICES
DEVICE CAPTURED DATA
WEB SERVICES
OTHER
37
DATA INTEGRATION SERVER
34
MANAGEMENT AND PROCESSING SUITE
50
51
52
53
54
MANAGEMENT AND M-CHANNEL ENGINE
PERSONALIZATION AND RULES ENGINE
AUTHORING AND PUBLISHING ENGINE
PRESENTATION ENGINE
DISTRIBUTION, DELIVERY AND SERVICE ENGINE
35
INTERACTION SERVER
38
39
SERVICES INTEGRATION SUITE
70
71
72
73
74
75
MMS CENTER
SMS CENTER
EMAIL
BILLING SYSTEMS
VOICE
OTHER
SERVICE INTEGRATION SERVER
32
DISPLAY SUITE
33
DISPLAY SERVER
40
41
42
43
44
45
46
47
48
MOBILE PHONE
SMART PHONE
POCKET PC
PALM
IMODE PHONE
PERSONAL COMPUTER
SET-TOP BOX
GAME/CAMERA
OTHER WIRELESS DEVICES

FIG. 1C

FIG. 1D

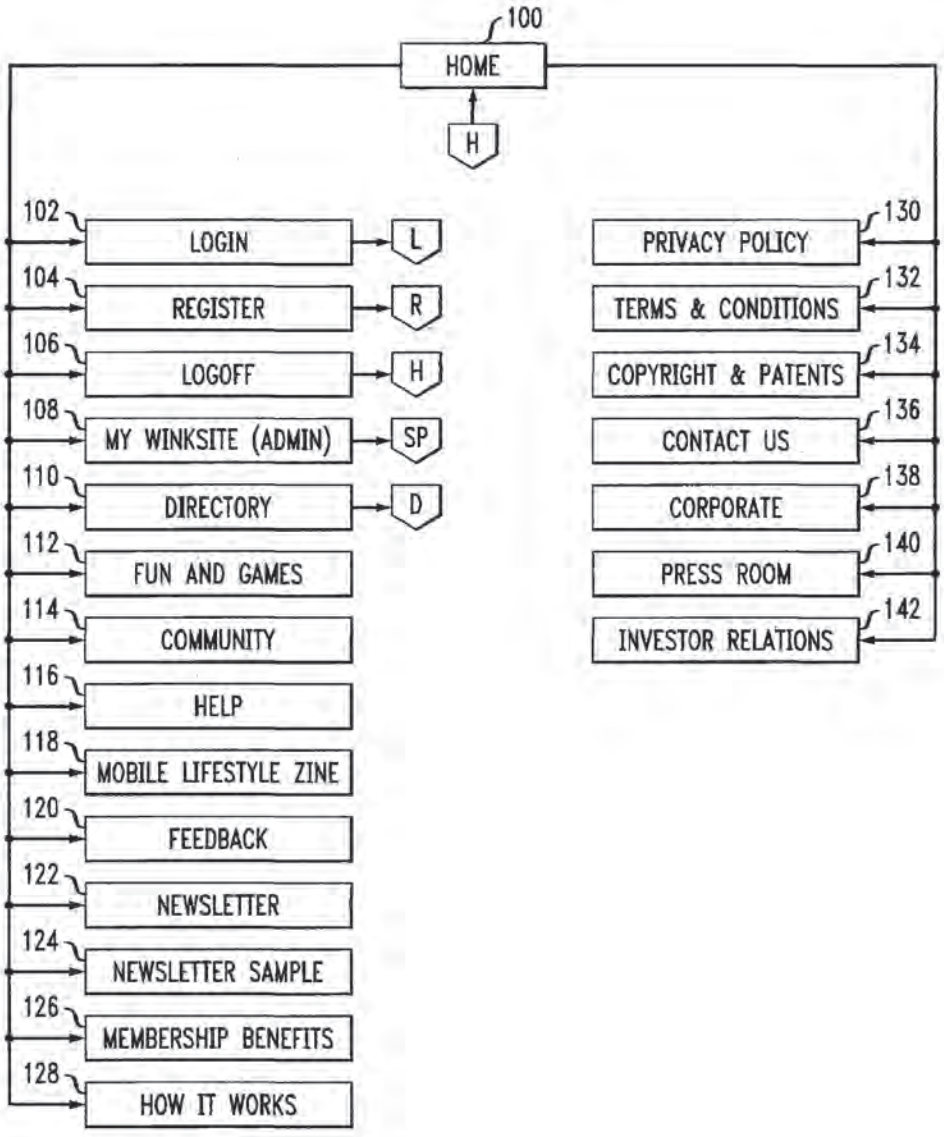

100
HOME
H
102
LOGIN
L
104
REGISTER
R
106
LOGOFF
H
108
MY WINKSITE (ADMIN)
SP
110
DIRECTORY
D
112
FUN AND GAMES
114
COMMUNITY
116
HELP
118
MOBILE LIFESTYLE ZINE
120
FEEDBACK
122
NEWSLETTER
124
NEWSLETTER SAMPLE
126
MEMBERSHIP BENEFITS
128
HOW IT WORKS
130
PRIVACY POLICY
132
TERMS & CONDITIONS
134
COPYRIGHT & PATENTS
136
CONTACT US
138
CORPORATE
140
PRESS ROOM
142
INVESTOR RELATIONS

FIG. 2

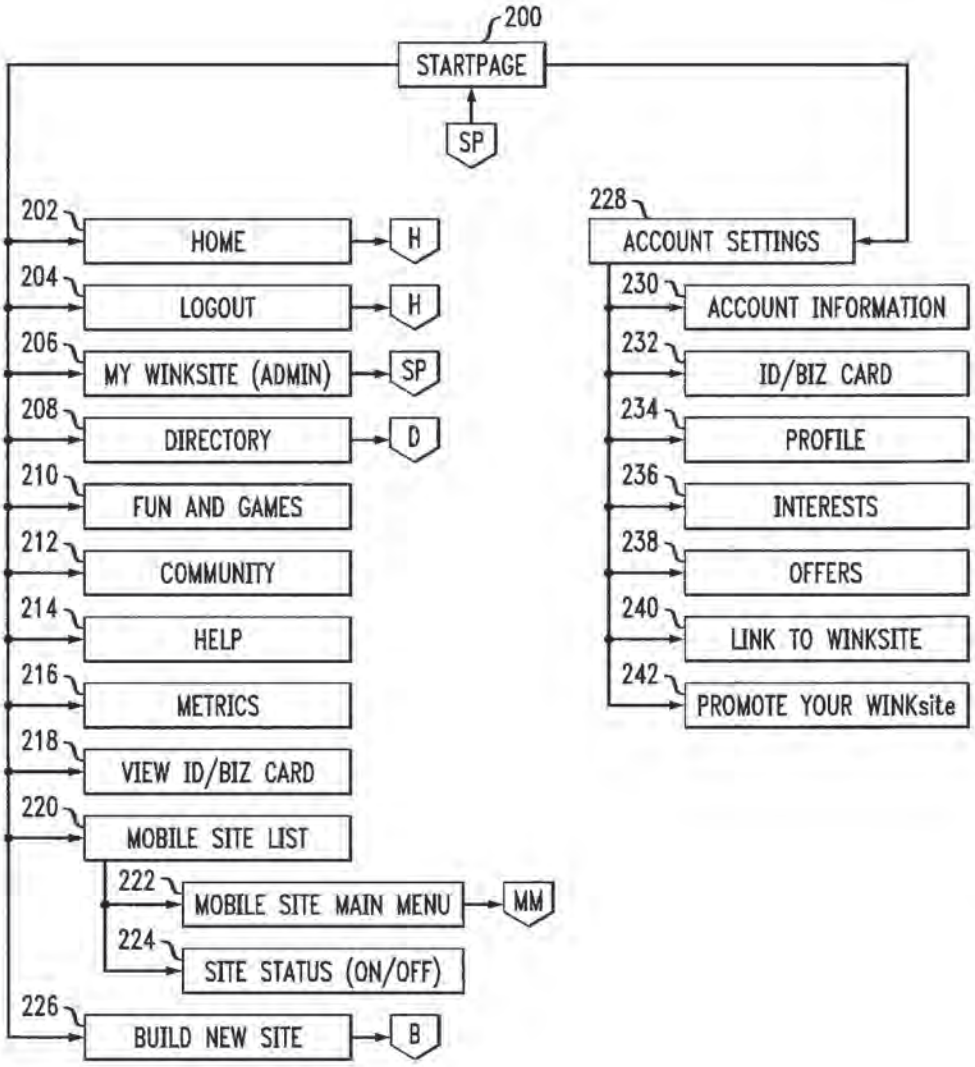

200
STARTPAGE
SP
202
HOME
H
204
LOGOUT
H
206
MY WINKSITE (ADMIN)
SP
208
DIRECTORY
D
210
FUN AND GAMES
212
COMMUNITY
214
HELP
216
METRICS
218
VIEW ID/BIZ CARD
220
MOBILE SITE LIST
222
MOBILE SITE MAIN MENU
MM
224
SITE STATUS (ON/OFF)
226
BUILD NEW SITE
B
228
ACCOUNT SETTINGS
230
ACCOUNT INFORMATION
232
ID/BIZ CARD
234
PROFILE
236
INTERESTS
238
OFFERS
240
LINK TO WINKSITE
242
PROMOTE YOUR WINKsite

FIG. 3

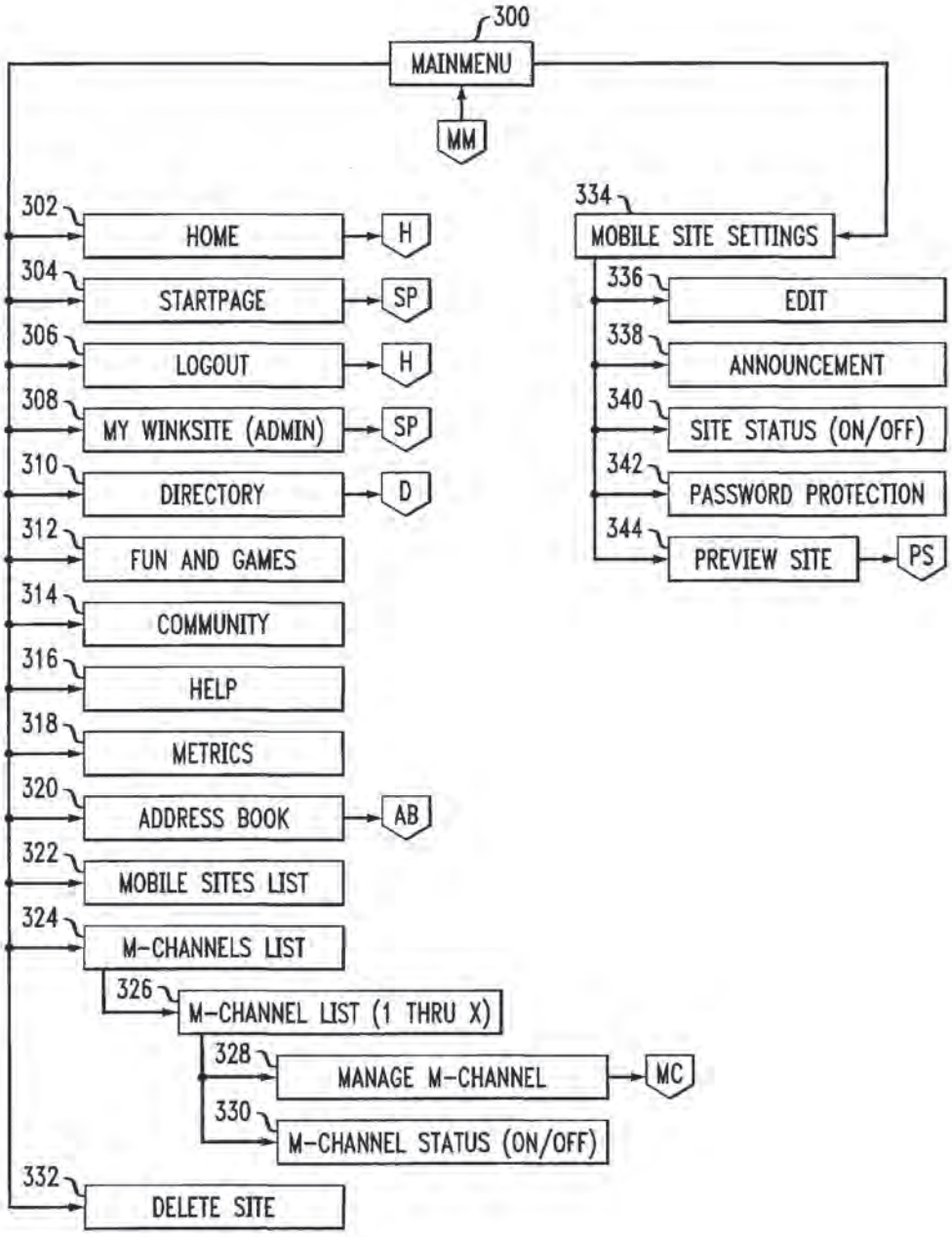

300
MAINMENU
MM
302
HOME
H
304
STARTPAGE
SP
306
LOGOUT
H
308
MY WINKSITE (ADMIN)
SP
310
DIRECTORY
D
312
FUN AND GAMES
314
COMMUNITY
316
HELP
318
METRICS
320
ADDRESS BOOK
AB
322
MOBILE SITES LIST
324
M-CHANNELS LIST
326
M-CHANNEL LIST (1 THRU X)
328
MANAGE M-CHANNEL
MC
330
M-CHANNEL STATUS (ON/OFF)
332
DELETE SITE
334
MOBILE SITE SETTINGS
336
EDIT
338
ANNOUNCEMENT
340
SITE STATUS (ON/OFF)
342
PASSWORD PROTECTION
344
PREVIEW SITE
PS

FIG. 4

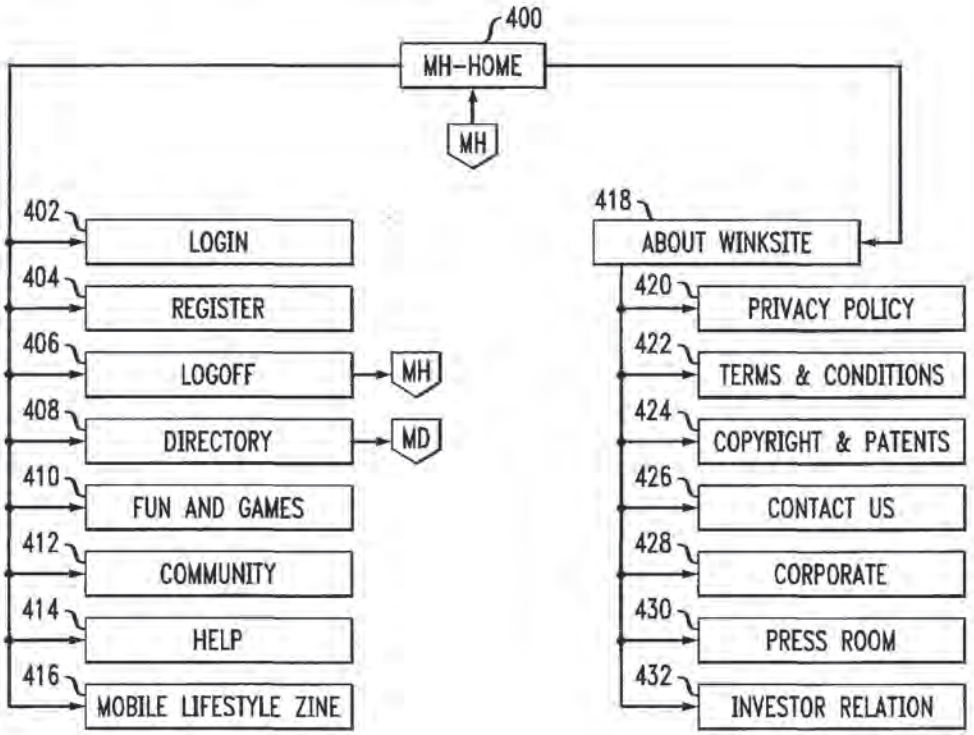
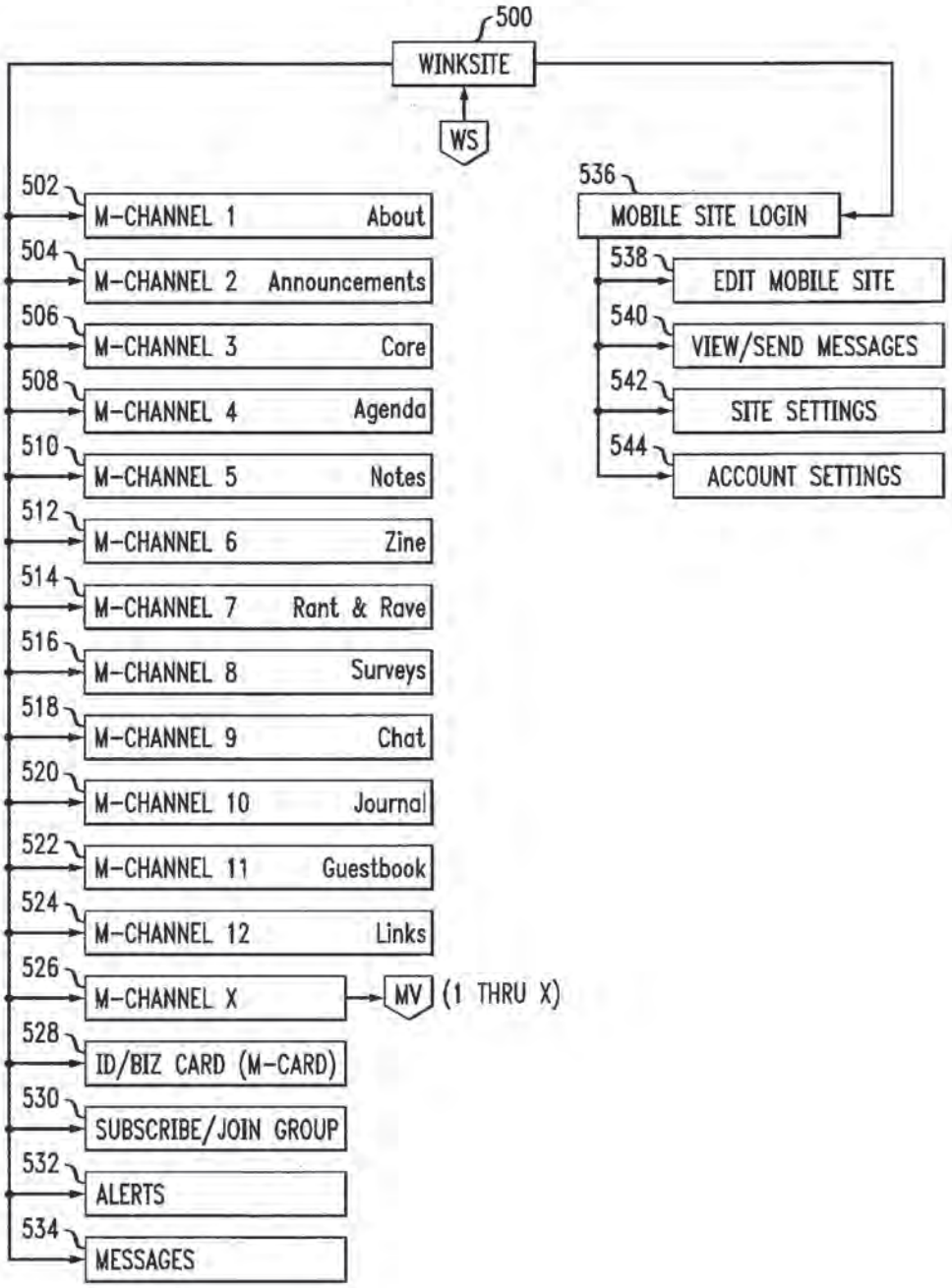

400
MH-HOME
MH
402
LOGIN
404
REGISTER
406
LOGOFF
MH
408
DIRECTORY
MD
410
FUN AND GAMES
412
COMMUNITY
414
HELP
416
MOBILE LIFESTYLE ZINE
418
ABOUT WINKSITE
420
PRIVACY POLICY
422
TERMS & CONDITIONS
424
COPYRIGHT & PATENTS
426
CONTACT US
428
CORPORATE
430
PRESS ROOM
432
INVESTOR RELATION

FIG. 5


500
WINKSITE
WS
502
M-CHANNEL 1 About
504
M-CHANNEL 2 Announcements
506
M-CHANNEL 3 Core
508
M-CHANNEL 4 Agenda
510
M-CHANNEL 5 Notes
512
M-CHANNEL 6 Zine
514
M-CHANNEL 7 Rant & Rave
516
M-CHANNEL 8 Surveys
518
M-CHANNEL 9 Chat
520
M-CHANNEL 10 Journal
522
M-CHANNEL 11 Guestbook
524
M-CHANNEL 12 Links
526
M-CHANNEL X
MV
(1 THRU X)
528
ID/BIZ CARD (M-CARD)
530
SUBSCRIBE/JOIN GROUP
532
ALERTS
534
MESSAGES
536
MOBILE SITE LOGIN
538
EDIT MOBILE SITE
540
VIEW/SEND MESSAGES
542
SITE SETTINGS
544
ACCOUNT SETTINGS

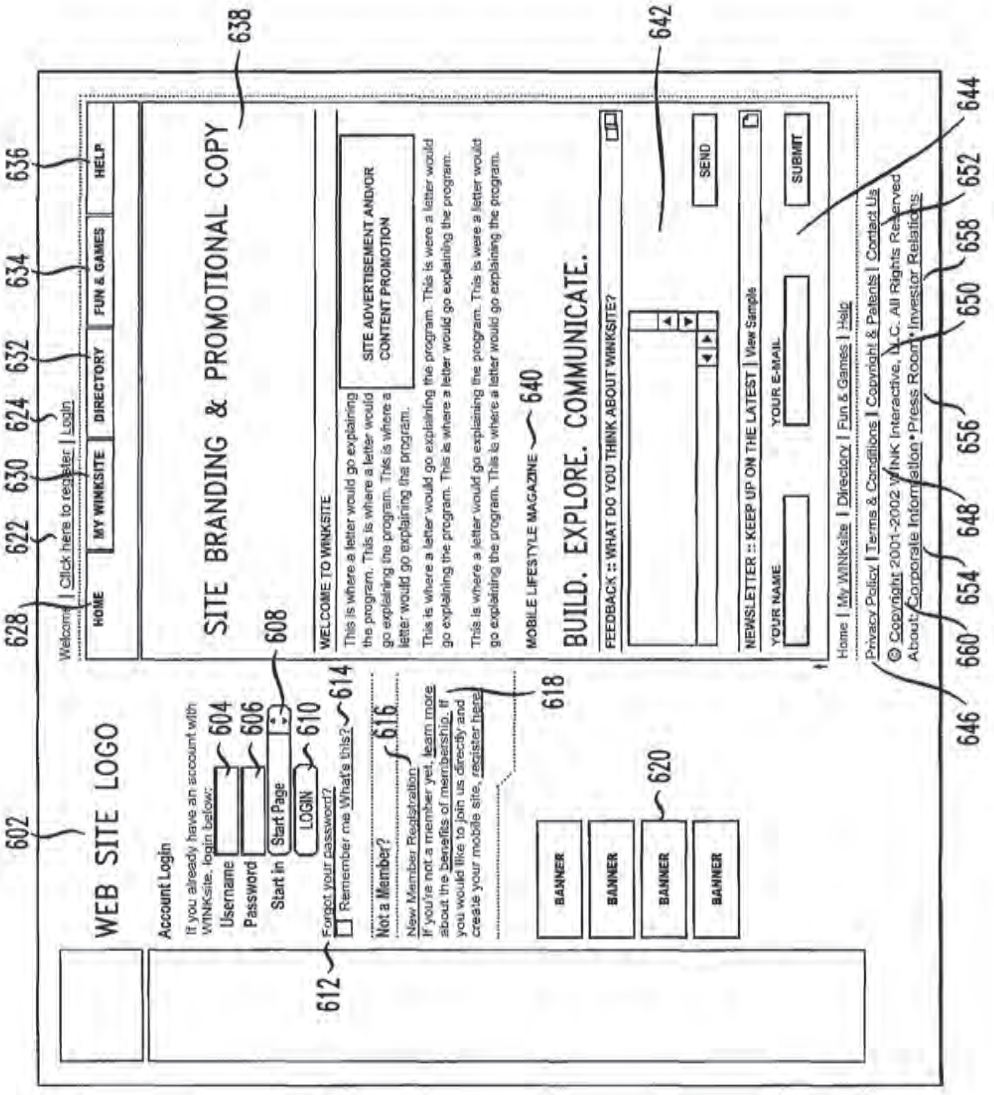

602
628
622
630
624
632
634
636
638
642
644
652
658
650
656
648
654
660
646
Welcome! | Click here to register | Login
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
WEB SITE LOGO
SITE BRANDING & PROMOTIONAL COPY
Account Login
If you already have an account with WINKsite, login below:
Username
Password
Start In
Start Page
LOGIN
604
606
608
610
Forget your password?
Remember me
What's this?
612
614
Not a Member?
616
New Member Registration
If you're not a member yet, learn more about the benefits of membership. If you would like to join us directly and create your mobile site, register here!
618
WELCOME TO WINKSITE
This is where a letter would go explaining the program. This is where a letter would go explaining the program. This is where a letter would go explaining the program.
This is where a letter would go explaining the program. This is where a letter would go explaining the program. This is where a letter would go explaining the program.
SITE ADVERTISEMENT AND/OR CONTENT PROMOTION
MOBILE LIFESTYLE MAGAZINE
640
BUILD. EXPLORE. COMMUNICATE.
FEEDBACK :: WHAT DO YOU THINK ABOUT WINKSITE?
SEND
NEWSLETTER :: KEEP UP ON THE LATEST | View Sample
YOUR NAME
YOUR E-MAIL
SUBMIT
BANNER
BANNER
BANNER
BANNER
620
Home | My WINKsite | Directory | Fun & Games | Help
Privacy Policy | Terms & Conditions | Copyright & Patents | Contact Us
© Copyright 2001-2002 yWINK Interactive, L.L.C. All Rights Reserved
About Corporate Information • Press Room • Investor Relations

FIG. 6

FIG. 7

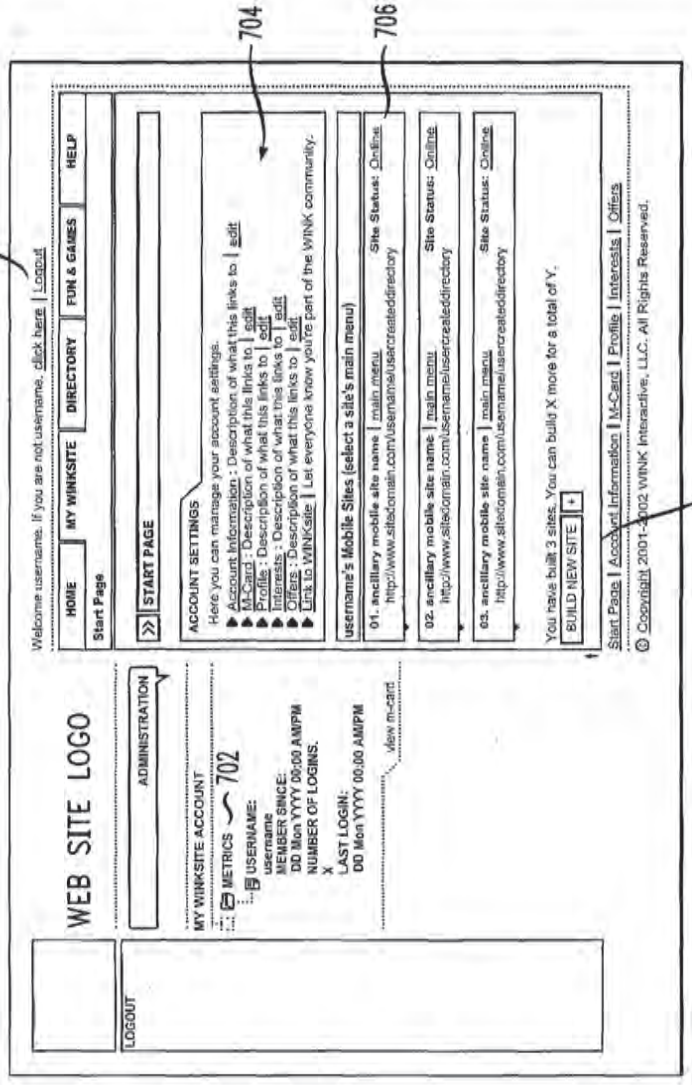

700
704
706
708
WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page
LOGOUT
ADMINISTRATION
START PAGE
MY WINKSITE ACCOUNT
METRICS
USERNAME:
username
MEMBER SINCE:
DD Mon YYYY 00:00 AM/PM
NUMBER OF LOGINS:
X
LAST LOGIN:
DD Mon YYYY 00:00 AM/PM
view m-card
ACCOUNT SETTINGS
Here you can manage your account settings.
Account Information : Description of what this links to | edit
M-Card : Description of what this links to | edit
Profile : Description of what this links to | edit
Interests : Description of what this links to | edit
Offers : Description of what this links to | edit
Link to WINKsite | Let everyone know you're part of the WINK community.
username's Mobile Sites (select a site's main menu)
01. ancillary mobile site name | main menu
Site Status: Online
http://www.sitedomain.com/username/usercreateddirectory
02. ancillary mobile site name | main menu
Site Status: Online
http://www.sitedomain.com/username/usercreateddirectory
03. ancillary mobile site name | main menu
Site Status: Online
http://www.sitedomain.com/username/usercreateddirectory
You have built 3 sites. You can build X more for a total of Y.
BUILD NEW SITE | +
Start Page | Account Information | M-Card | Profile | Interests | Offers
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 8

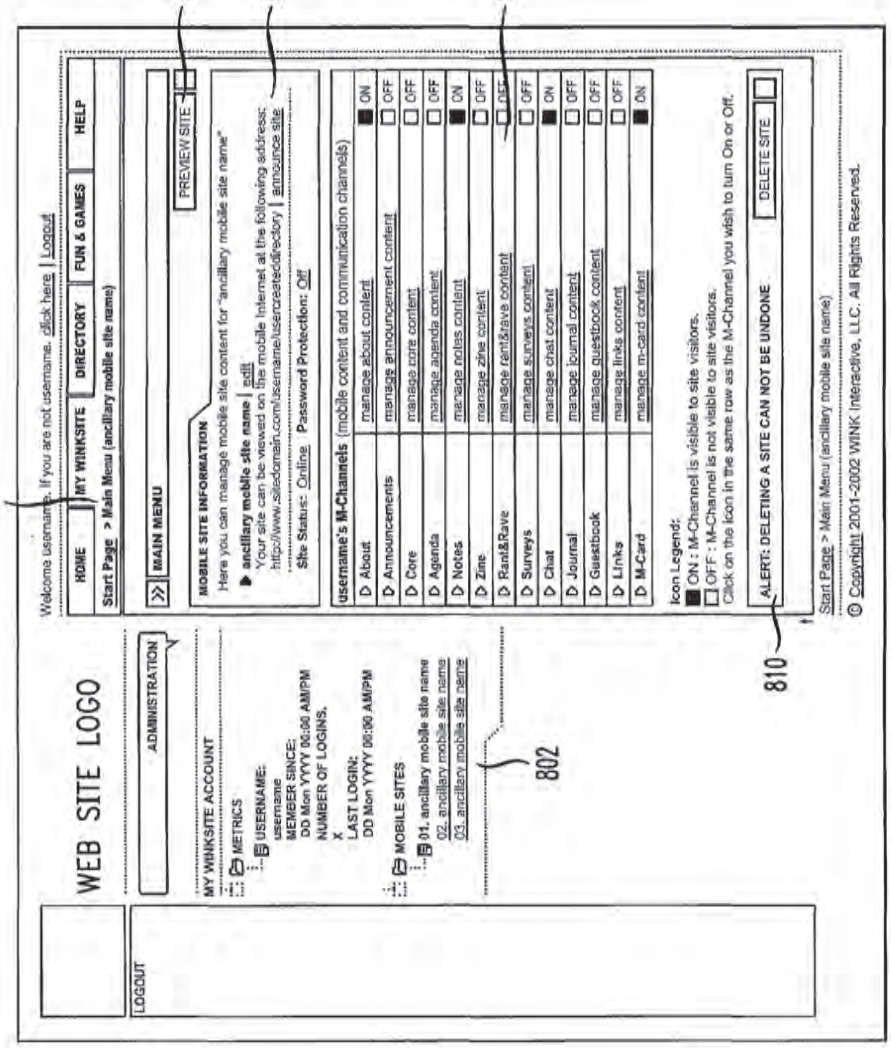

804
812
806
808
802
810
WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name)
LOGOUT
ADMINISTRATION
MY WINKSITE ACCOUNT
METRICS
USERNAME:
username
MEMBER SINCE:
DD Mon YYYY 00:00 AM/PM
NUMBER OF LOGINS:
X
LAST LOGIN:
DD Mon YYYY 00:00 AM/PM
MOBILE SITES
01. ancillary mobile site name
02. ancillary mobile site name
03. ancillary mobile site name
MAIN MENU
PREVIEW SITE
MOBILE SITE INFORMATION
Here you can manage mobile site content for "ancillary mobile site name"
ancillary mobile site name | edit
Your site can be viewed on the mobile Internet at the following address:
http://www.sitedomain.com/username/usercreatedirectory | announce site
Site Status: Online Password Protection: Off
username's M-Channels (mobile content and communication channels)
About | manage about content | ON
Announcements | manage announcement content | OFF
Core | manage core content | OFF
Agenda | manage agenda content | OFF
Notes | manage notes content | ON
Zine | manage zine content | OFF
Rant&Rave | manage rant&rave content | OFF
Surveys | manage surveys content | OFF
Chat | manage chat content | ON
Journal | manage journal content | OFF
Guestbook | manage guestbook content | OFF
Links | manage links content | OFF
M-Card | manage m-card content | ON
Icon Legend:
ON : M-Channel is visible to site visitors.
OFF : M-Channel is not visible to site visitors.
Click on the icon in the same row as the M-Channel you wish to turn On or Off.
ALERT: DELETING A SITE CAN NOT BE UNDONE
DELETE SITE
Start Page > Main Menu (ancillary mobile site name)
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 9a

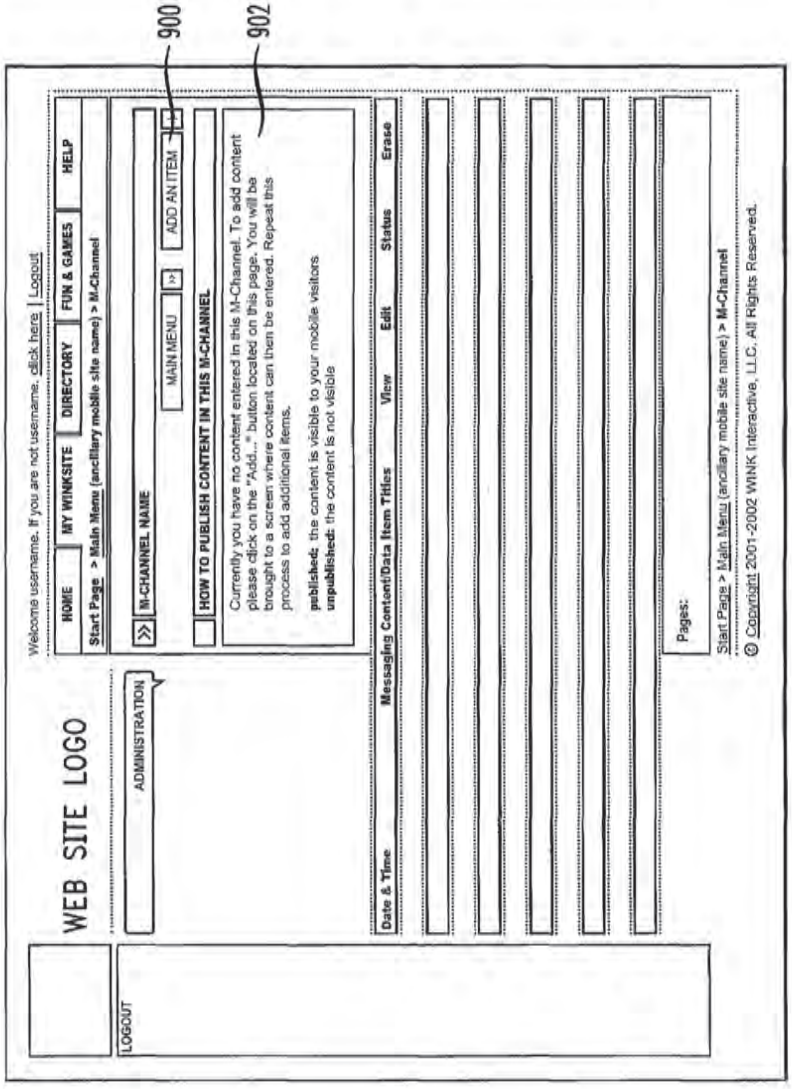

900
902
WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name) > M-Channel
LOGOUT
ADMINISTRATION
M-CHANNEL NAME
MAIN MENU
ADD AN ITEM
HOW TO PUBLISH CONTENT IN THIS M-CHANNEL
Currently you have no content entered in this M-Channel. To add content please click on the "Add..." button located on this page. You will be brought to a screen where content can then be entered. Repeat this process to add additional items.
published: the content is visible to your mobile visitors
unpublished: the content is not visible
Date & Time
Messaging Content/Data Item Titles
View
Edit
Status
Erase
Pages:
Start Page > Main Menu (ancillary mobile site name) > M-Channel
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 9b

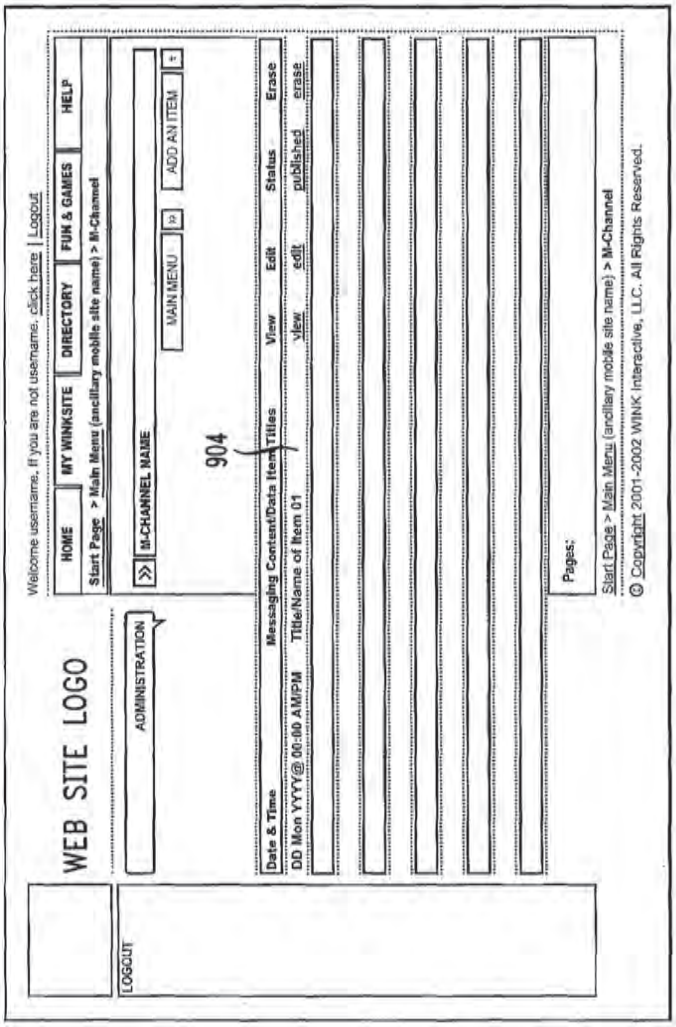

WEB SITE LOGO
Welcome username, if you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name) > M-Channel
LOGOUT
ADMINISTRATION
M-CHANNEL NAME
MAIN MENU
ADD AN ITEM
904
Date & Time
Messaging Content/Data Items
Titles
View
Edit
Status
Erase
DD Mon YYYY@ 06:00 AM/PM
Title/Name of Item 01
view
edit
published
erase
Pages:
Start Page > Main Menu (ancillary mobile site name) > M-Channel
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 10

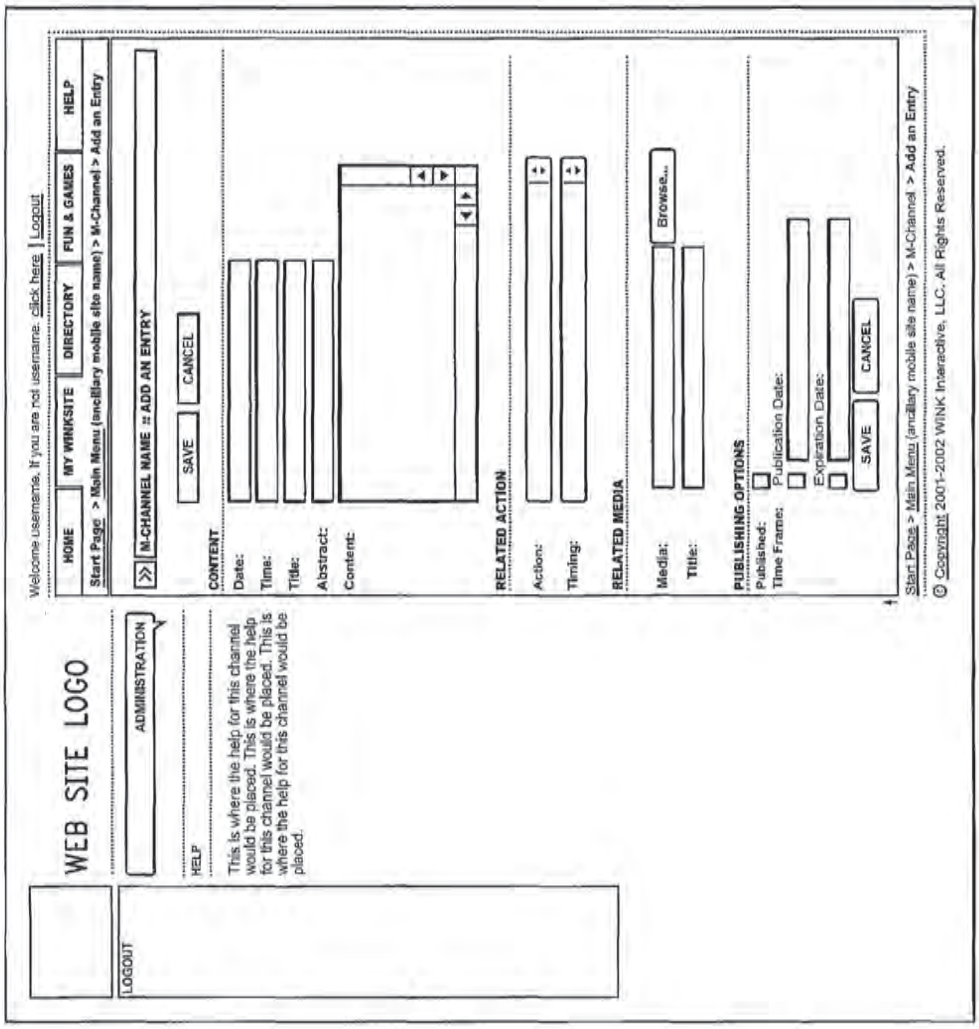
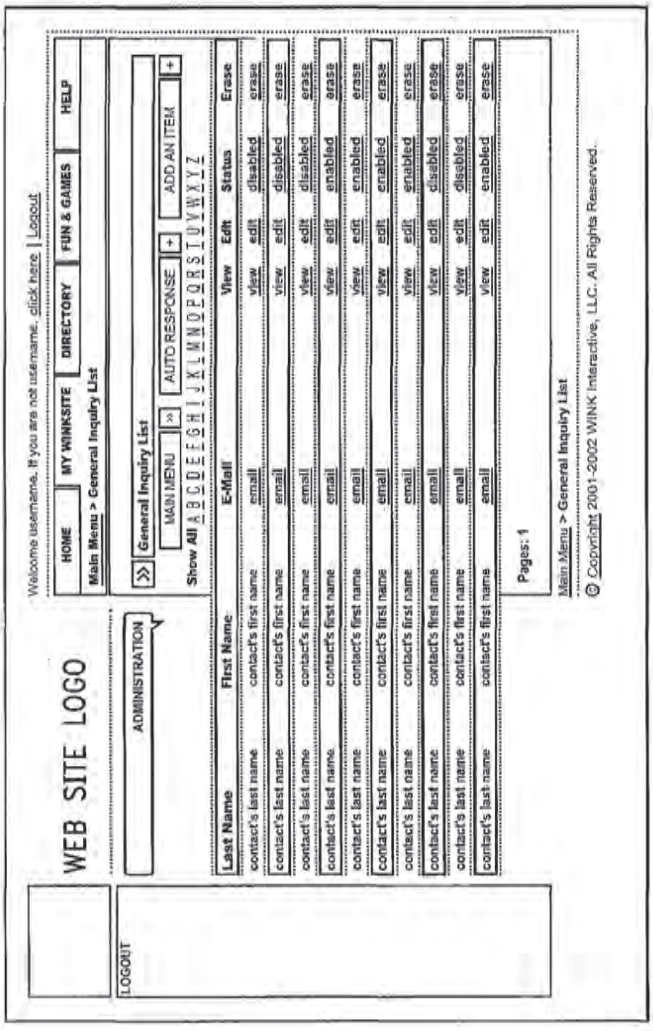

WEB SITE LOGO
Welcome Username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name) > M-Channel > Add an Entry
LOGOUT
ADMINISTRATION
HELP
This is where the help for this channel would be placed. This is where the help for this channel would be placed. This is where the help for this channel would be placed.
M-CHANNEL NAME :: ADD AN ENTRY
SAVE
CANCEL
CONTENT
Date:
Time:
Title:
Abstract:
Content:
RELATED ACTION
Action:
Timing:
RELATED MEDIA
Media:
Browse...
Title:
PUBLISHING OPTIONS
Published:
Time Frame:
Publication Date:
Expiration Date:
SAVE
CANCEL
Start Page > Main Menu (ancillary mobile site name) > M-Channel > Add an Entry
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 11


WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Main Menu > General Inquiry List
ADMINISTRATION
LOGOUT
General Inquiry List
MAIN MENU
AUTO RESPONSE
ADD AN ITEM
Show All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Last Name
First Name
E-Mail
View
Edit
Status
Erase
contact's last name
contact's first name
email
view
edit
disabled
enabled
erase
Pages: 1
Main Menu > General Inquiry List
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

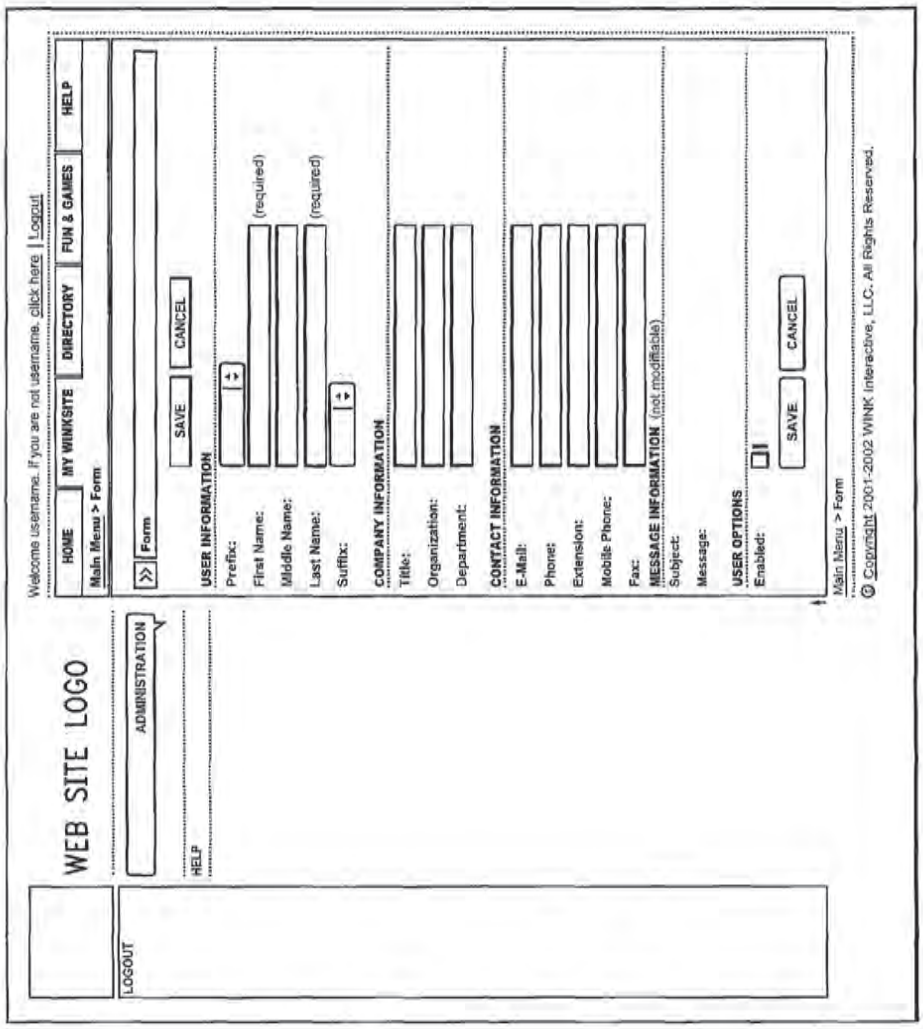

WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Main Menu > Form
LOGOUT
ADMINISTRATION
HELP
Form
SAVE
CANCEL
USER INFORMATION
Prefix:
First Name:
(required)
Middle Name:
Last Name:
(required)
Suffix:
COMPANY INFORMATION
Title:
Organization:
Department:
CONTACT INFORMATION
E-Mail:
Phone:
Extension:
Mobile Phone:
Fax:
MESSAGE INFORMATION (not modifiable)
Subject:
Message:
USER OPTIONS
Enabled:
SAVE
CANCEL
Main Menu > Form
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FIG. 12

FIG. 13

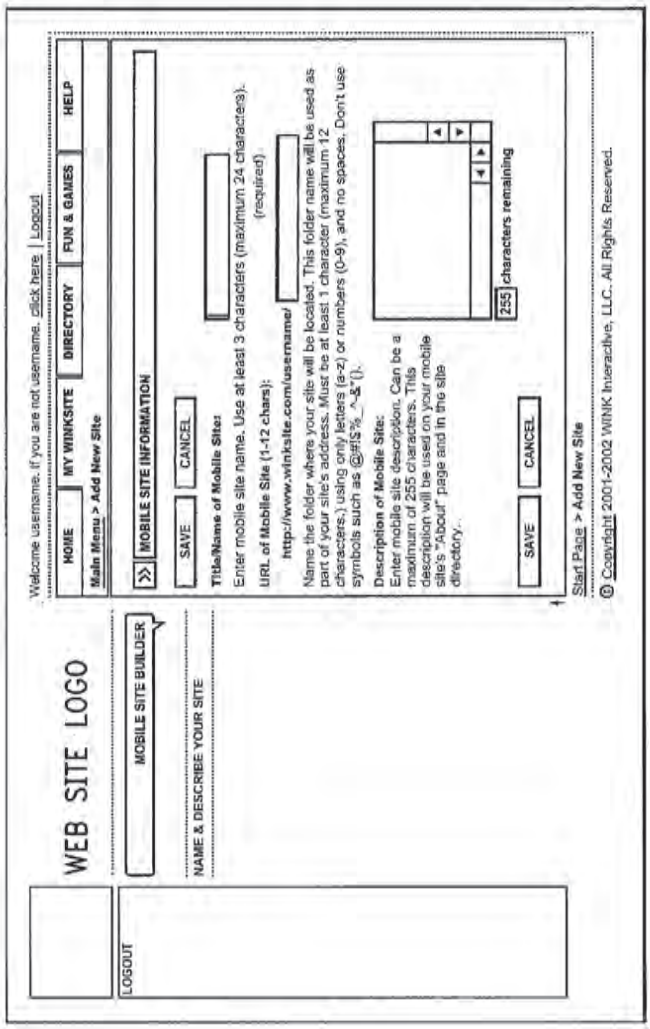

WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Main Menu > Add New Site
LOGOUT
MOBILE SITE BUILDER
NAME & DESCRIBE YOUR SITE
MOBILE SITE INFORMATION
SAVE
CANCEL
Title/Name of Mobile Site:
Enter mobile site name. Use at least 3 characters (maximum 24 characters).
URL of Mobile Site (1-12 chars):
(required)
http://www.winksite.com/username/
Name the folder where your site will be located. This folder name will be used as part of your site's address. Must be at least 1 character (maximum 12 characters.) using only letters (a-z) or numbers (0-9), and no spaces. Don't use symbols such as @#$%^_^&*().
Description of Mobile Site:
Enter mobile site description. Can be a maximum of 255 characters. This description will be used on your mobile site's "About" page and in the site directory.
255 characters remaining
SAVE
CANCEL
Start Page > Add New Site
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 14

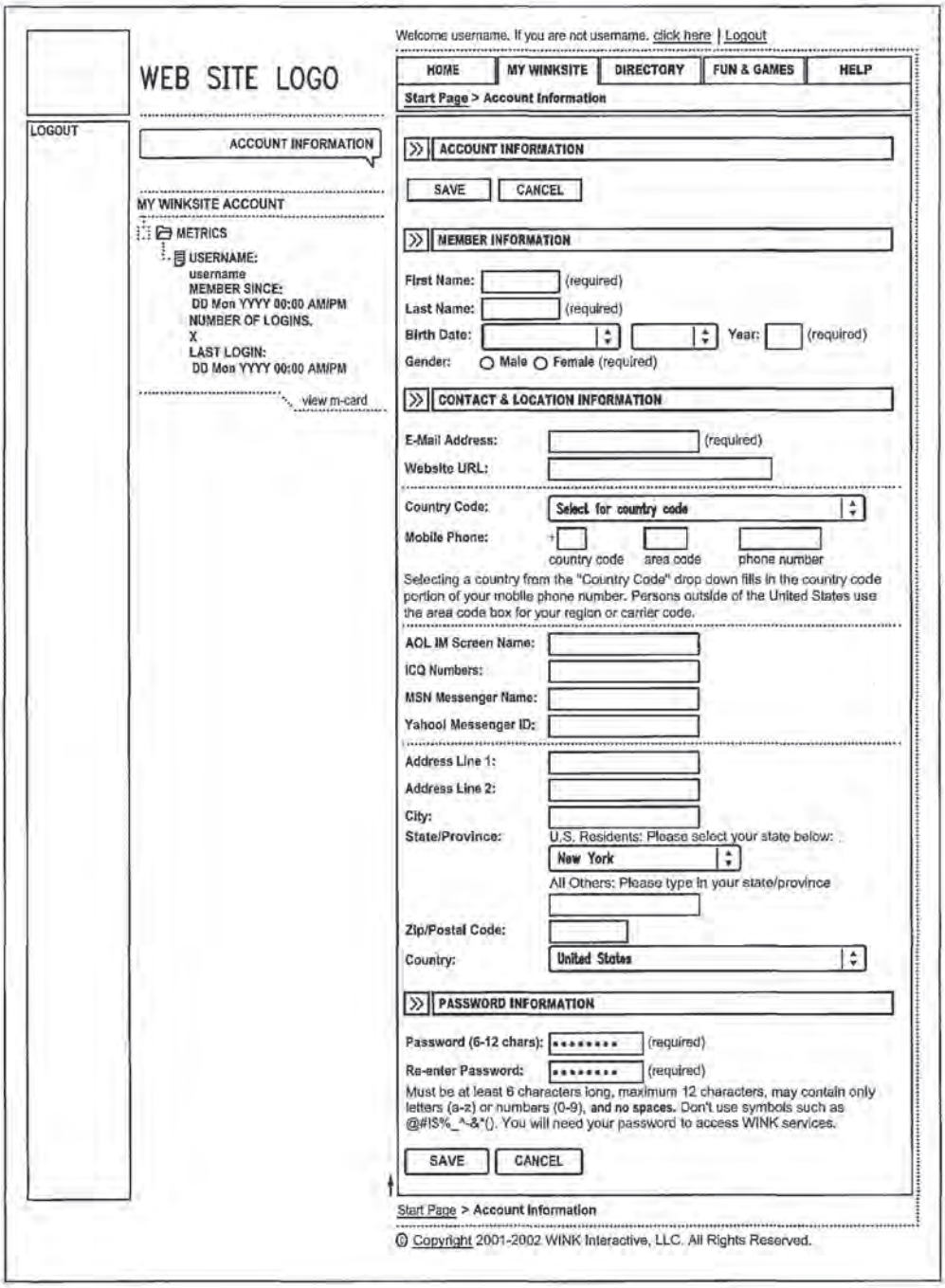
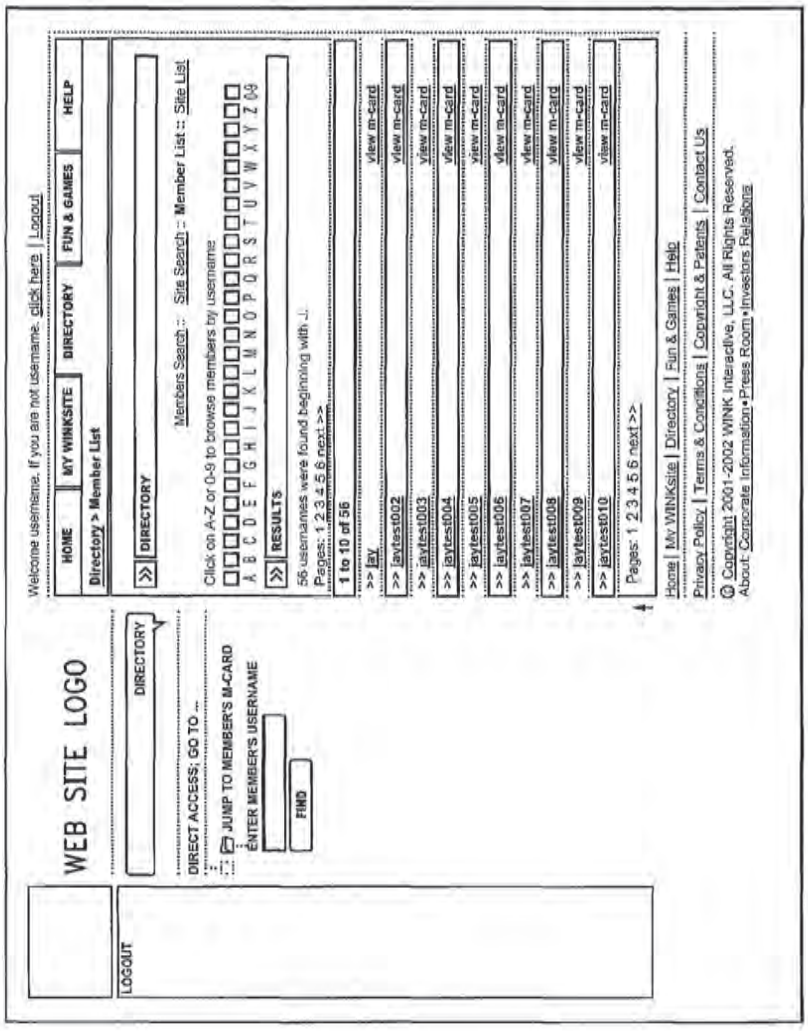

WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Account Information
LOGOUT
ACCOUNT INFORMATION
MY WINKSITE ACCOUNT
METRICS
USERNAME:
username
MEMBER SINCE:
DD Mon YYYY 00:00 AM/PM
NUMBER OF LOGINS:
X
LAST LOGIN:
DD Mon YYYY 00:00 AM/PM
view m-card
ACCOUNT INFORMATION
SAVE
CANCEL
MEMBER INFORMATION
First Name: (required)
Last Name: (required)
Birth Date: Year: (required)
Gender: Male Female (required)
CONTACT & LOCATION INFORMATION
E-Mail Address: (required)
Website URL:
Country Code: Select for country code
Mobile Phone: + country code area code phone number
Selecting a country from the "Country Code" drop down fills in the country code portion of your mobile phone number. Persons outside of the United States use the area code box for your region or carrier code.
AOL IM Screen Name:
ICQ Numbers:
MSN Messenger Name:
Yahoo! Messenger ID:
Address Line 1:
Address Line 2:
City:
State/Province: U.S. Residents: Please select your state below:
New York
All Others: Please type in your state/province
Zip/Postal Code:
Country: United States
PASSWORD INFORMATION
Password (6-12 chars): (required)
Re-enter Password: (required)
Must be at least 6 characters long, maximum 12 characters, may contain only letters (a-z) or numbers (0-9), and no spaces. Don't use symbols such as @#$%_^-&*(). You will need your password to access WINK services.
SAVE
CANCEL
Start Page > Account Information
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 15


WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
LOGOUT
DIRECTORY
DIRECT ACCESS; GO TO ...
JUMP TO MEMBER'S M-CARD
ENTER MEMBER'S USERNAME
FIND
Directory > Member List
DIRECTORY
Members Search :: Site Search :: Member List :: Site List
Click on A-Z or 0-9 to browse members by username
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0-9
RESULTS
56 usernames were found beginning with J.
Pages: 1 2 3 4 5 6 next >>
1 to 10 of 56
>> jay view m-card
>> jaytest002 view m-card
>> jaytest003 view m-card
>> jaytest004 view m-card
>> jaytest005 view m-card
>> jaytest006 view m-card
>> jaytest007 view m-card
>> jaytest008 view m-card
>> jaytest009 view m-card
>> jaytest010 view m-card
Pages: 1 2 3 4 5 6 next >>
Home | My WINKsite | Directory | Fun & Games | Help
Privacy Policy | Terms & Conditions | Copyright & Patents | Contact Us
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About: Corporate Information • Press Room • Investors Relations

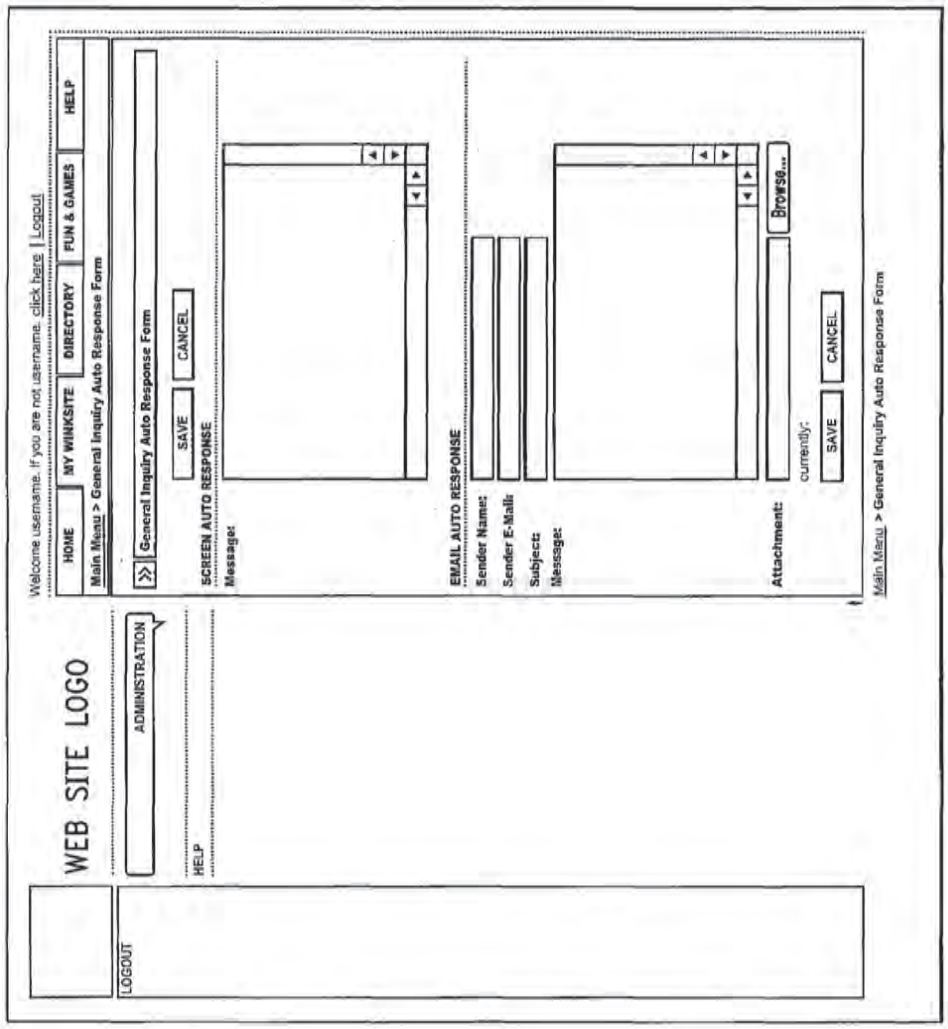

WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Main Menu > General Inquiry Auto Response Form
LOGOUT
ADMINISTRATION
HELP
General Inquiry Auto Response Form
SAVE
CANCEL
SCREEN AUTO RESPONSE
Message:
EMAIL AUTO RESPONSE
Sender Name:
Sender E-Mail:
Subject:
Message:
Attachment:
Browse...
currently:
SAVE
CANCEL
Main Menu > General Inquiry Auto Response Form

FIG. 16

FIG. 17a

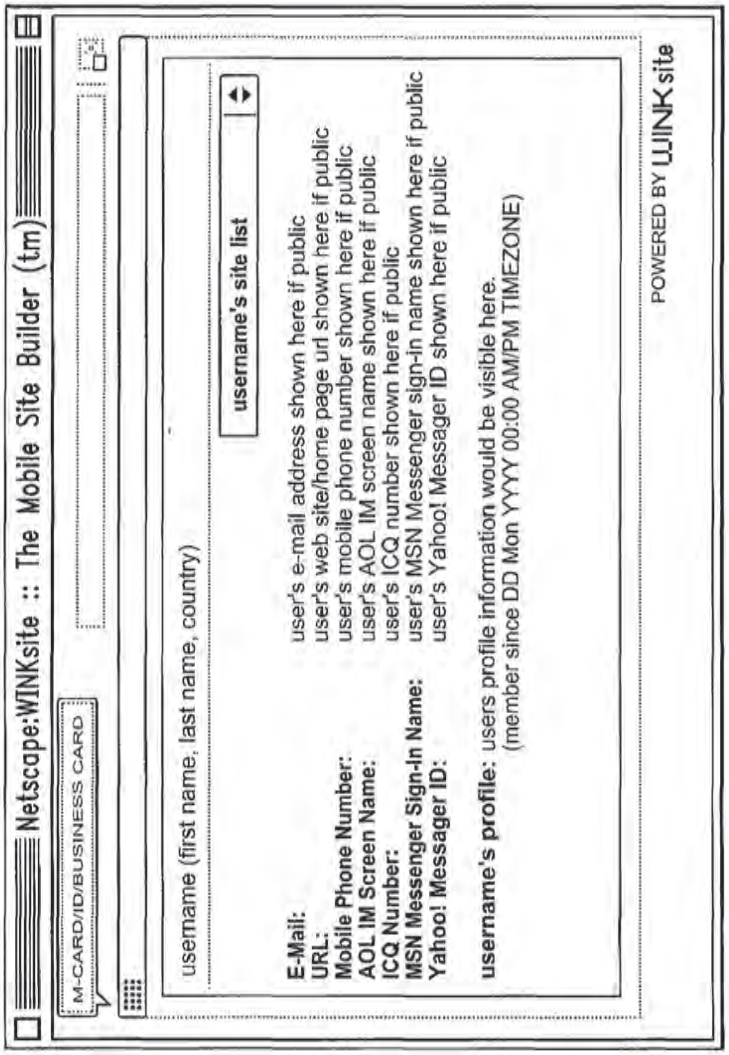

Netscape:WINKsite :: The Mobile Site Builder (tm)
M-CARD/ID/BUSINESS CARD
username (first name, last name, country)
username's site list
E-Mail: user's e-mail address shown here if public
URL: user's web site/home page url shown here if public
Mobile Phone Number: user's mobile phone number shown here if public
AOL IM Screen Name: user's AOL IM screen name shown here if public
ICQ Number: user's ICQ number shown here if public
MSN Messenger Sign-In Name: user's MSN Messenger sign-in name shown here if public
Yahoo! Messager ID: user's Yahoo! Messager ID shown here if public
username's profile: users profile information would be visible here.
(member since DD Mon YYYY 00:00 AM/PM TIMEZONE)
POWERED BY WINKsite

FIG. 17b

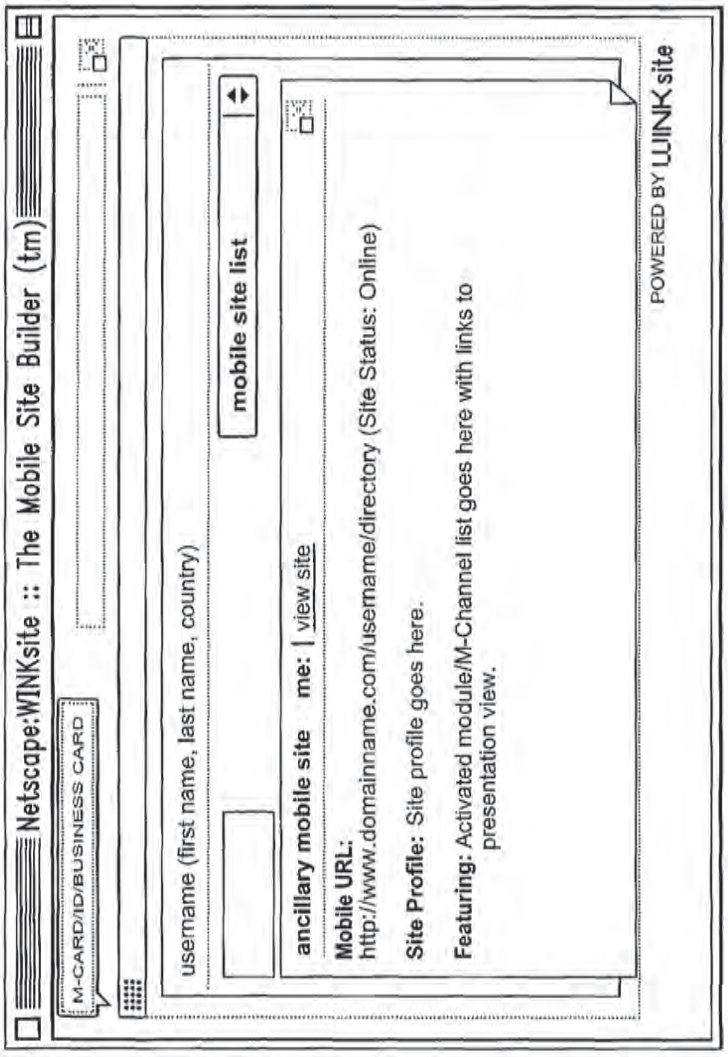

Netscape:WINKsite :: The Mobile Site Builder (tm)
M-CARD/ID/BUSINESS CARD
username (first name, last name, country)
mobile site list
ancillary mobile site me: | view site
Mobile URL:
http://www.domainname.com/username/directory (Site Status: Online)
Site Profile: Site profile goes here.
Featuring: Activated module/M-Channel list goes here with links to presentation view.
POWERED BY WINK site

FIG. 18

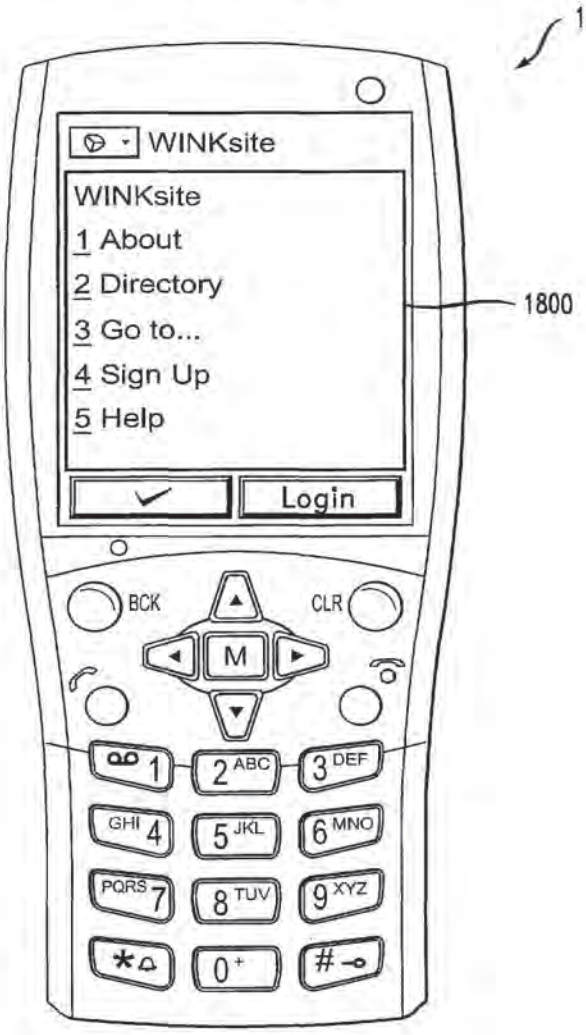

15-1
WINKsite
WINKsite
1 About
2 Directory
3 Go to...
4 Sign Up
5 Help
Login
1800
BCK
CLR
M
1
2 ABC
3 DEF
GHI 4
5 JKL
6 MNO
PQRS 7
8 TUV
9 XYZ
*
0 +
#

FIG. 19

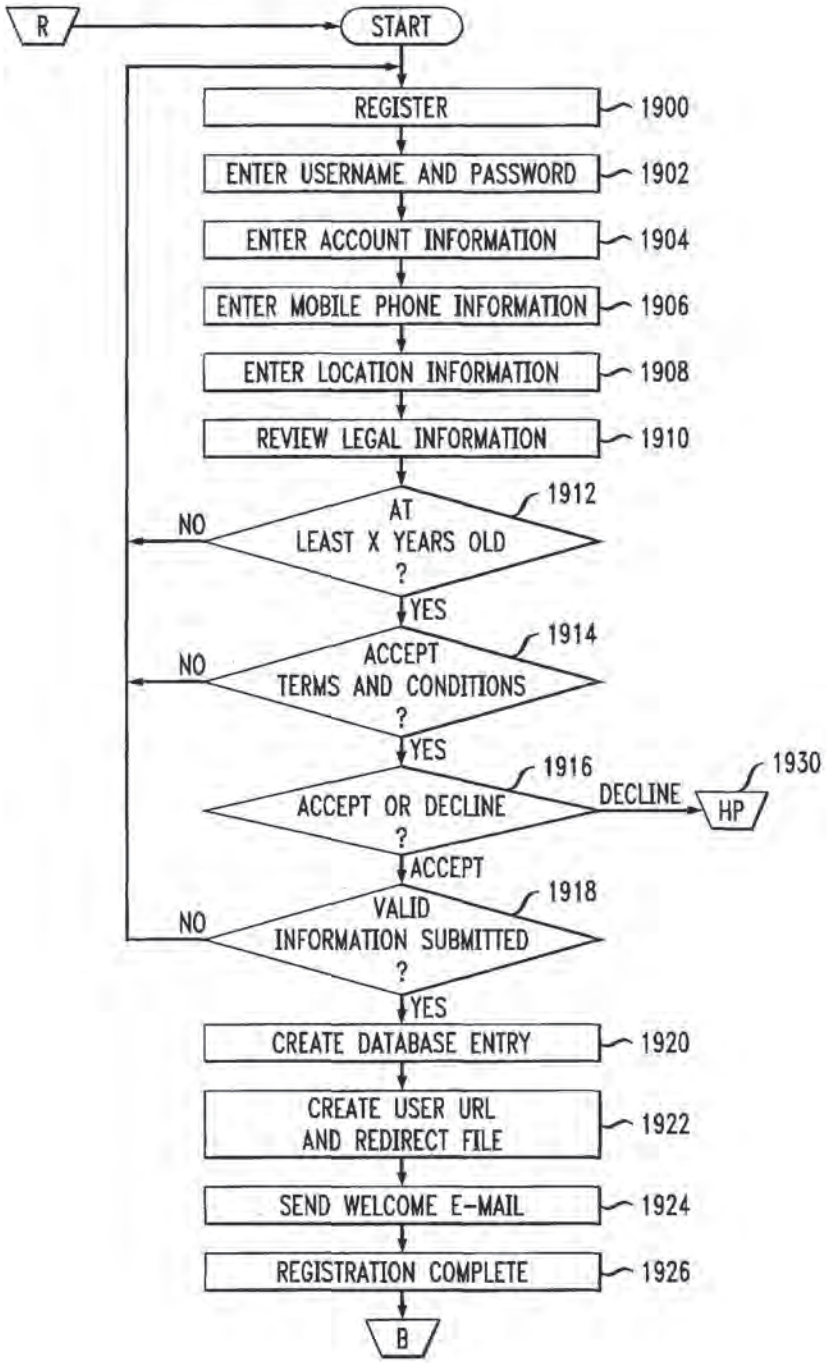

R
START
REGISTER
1900
ENTER USERNAME AND PASSWORD
1902
ENTER ACCOUNT INFORMATION
1904
ENTER MOBILE PHONE INFORMATION
1906
ENTER LOCATION INFORMATION
1908
REVIEW LEGAL INFORMATION
1910
AT LEAST X YEARS OLD ?
1912
NO
YES
ACCEPT TERMS AND CONDITIONS ?
1914
NO
YES
ACCEPT OR DECLINE ?
1916
DECLINE
1930
HP
ACCEPT
VALID INFORMATION SUBMITTED ?
1918
NO
YES
CREATE DATABASE ENTRY
1920
CREATE USER URL AND REDIRECT FILE
1922
SEND WELCOME E-MAIL
1924
REGISTRATION COMPLETE
1926
B

FIG. 20

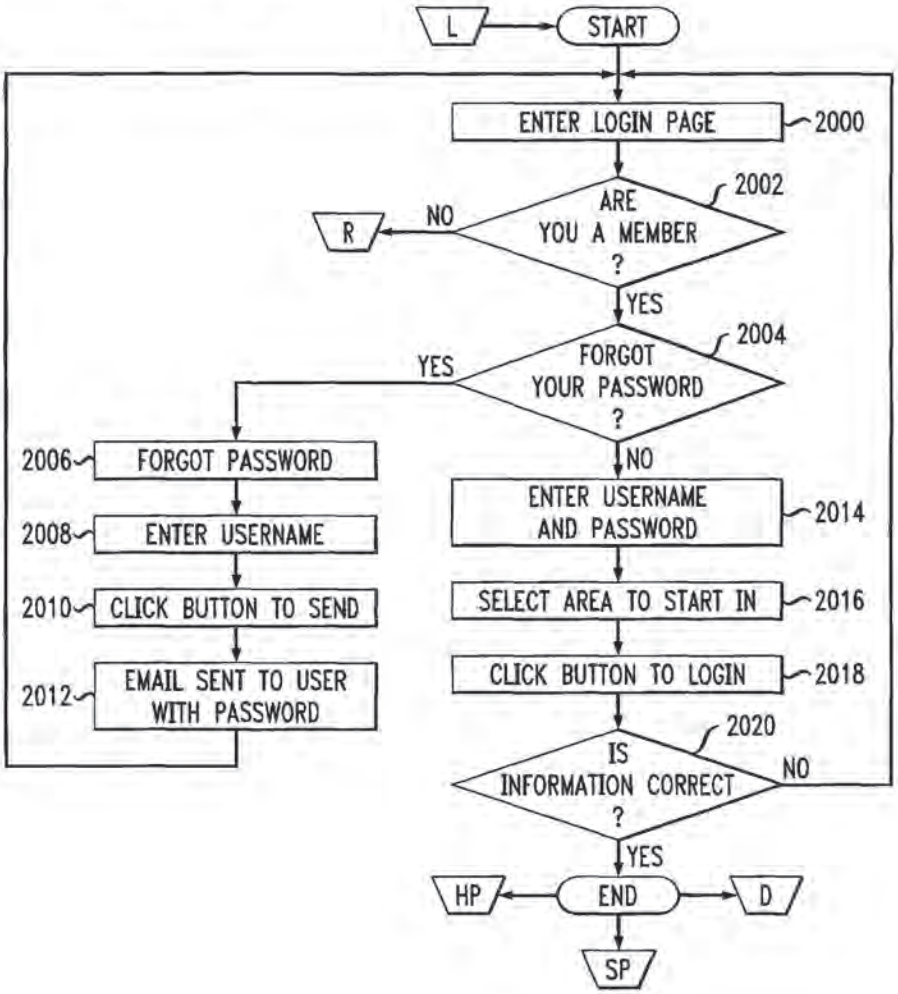

L
START
ENTER LOGIN PAGE
2000
ARE YOU A MEMBER ?
2002
NO
R
YES
FORGOT YOUR PASSWORD ?
2004
YES
NO
2006
FORGOT PASSWORD
2008
ENTER USERNAME
2010
CLICK BUTTON TO SEND
2012
EMAIL SENT TO USER WITH PASSWORD
ENTER USERNAME AND PASSWORD
2014
SELECT AREA TO START IN
2016
CLICK BUTTON TO LOGIN
2018
IS INFORMATION CORRECT ?
2020
NO
YES
HP
END
D
SP

FIG. 21

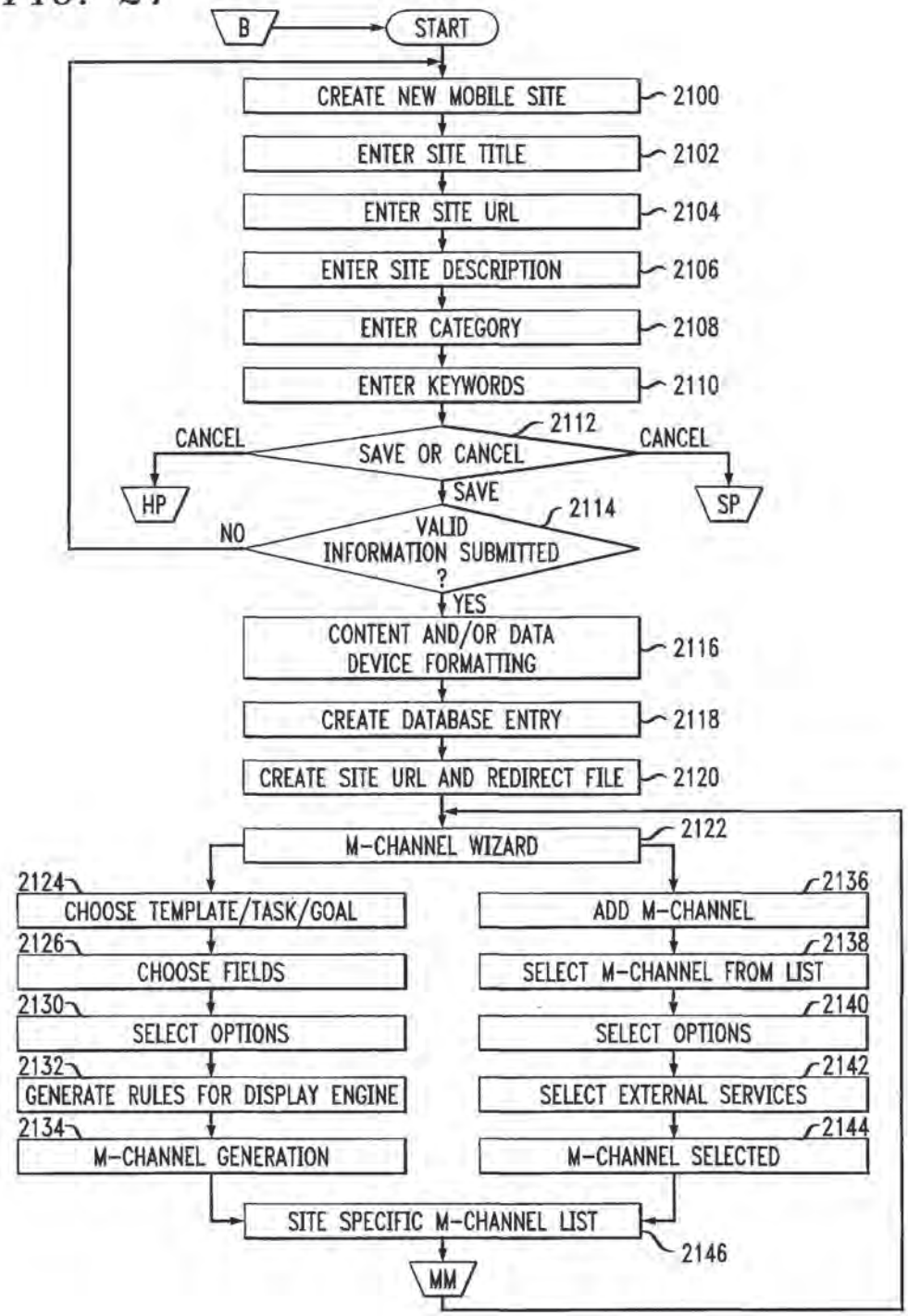

B
START
CREATE NEW MOBILE SITE
2100
ENTER SITE TITLE
2102
ENTER SITE URL
2104
ENTER SITE DESCRIPTION
2106
ENTER CATEGORY
2108
ENTER KEYWORDS
2110
2112
CANCEL
SAVE OR CANCEL
CANCEL
HP
SAVE
SP
2114
NO
VALID INFORMATION SUBMITTED ?
YES
CONTENT AND/OR DATA DEVICE FORMATTING
2116
CREATE DATABASE ENTRY
2118
CREATE SITE URL AND REDIRECT FILE
2120
M-CHANNEL WIZARD
2122
2124
CHOOSE TEMPLATE/TASK/GOAL
2126
CHOOSE FIELDS
2130
SELECT OPTIONS
2132
GENERATE RULES FOR DISPLAY ENGINE
2134
M-CHANNEL GENERATION
2136
ADD M-CHANNEL
2138
SELECT M-CHANNEL FROM LIST
2140
SELECT OPTIONS
2142
SELECT EXTERNAL SERVICES
2144
M-CHANNEL SELECTED
SITE SPECIFIC M-CHANNEL LIST
2146
MM

FIG. 22

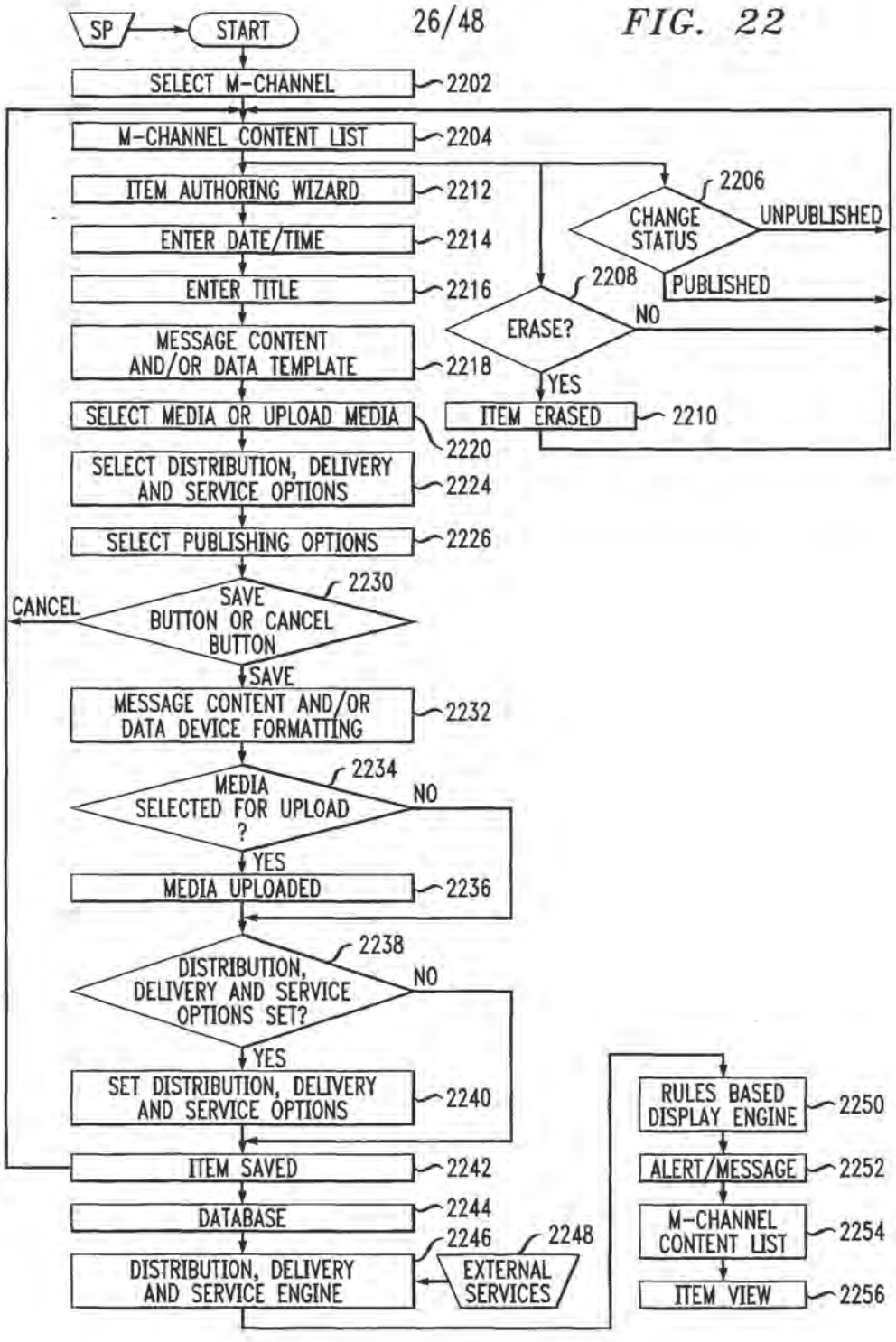

SP
START
SELECT M-CHANNEL
2202
M-CHANNEL CONTENT LIST
2204
ITEM AUTHORING WIZARD
2212
ENTER DATE/TIME
2214
ENTER TITLE
2216
MESSAGE CONTENT AND/OR DATA TEMPLATE
2218
SELECT MEDIA OR UPLOAD MEDIA
2220
SELECT DISTRIBUTION, DELIVERY AND SERVICE OPTIONS
2224
SELECT PUBLISHING OPTIONS
2226
SAVE BUTTON OR CANCEL BUTTON
2230
CANCEL
SAVE
MESSAGE CONTENT AND/OR DATA DEVICE FORMATTING
2232
MEDIA SELECTED FOR UPLOAD ?
2234
NO
YES
MEDIA UPLOADED
2236
DISTRIBUTION, DELIVERY AND SERVICE OPTIONS SET?
2238
NO
YES
SET DISTRIBUTION, DELIVERY AND SERVICE OPTIONS
2240
ITEM SAVED
2242
DATABASE
2244
DISTRIBUTION, DELIVERY AND SERVICE ENGINE
2246
EXTERNAL SERVICES
2248
CHANGE STATUS
2206
UNPUBLISHED
PUBLISHED
ERASE?
2208
NO
YES
ITEM ERASED
2210
RULES BASED DISPLAY ENGINE
2250
ALERT/MESSAGE
2252
M-CHANNEL CONTENT LIST
2254
ITEM VIEW
2256

FIG. 23

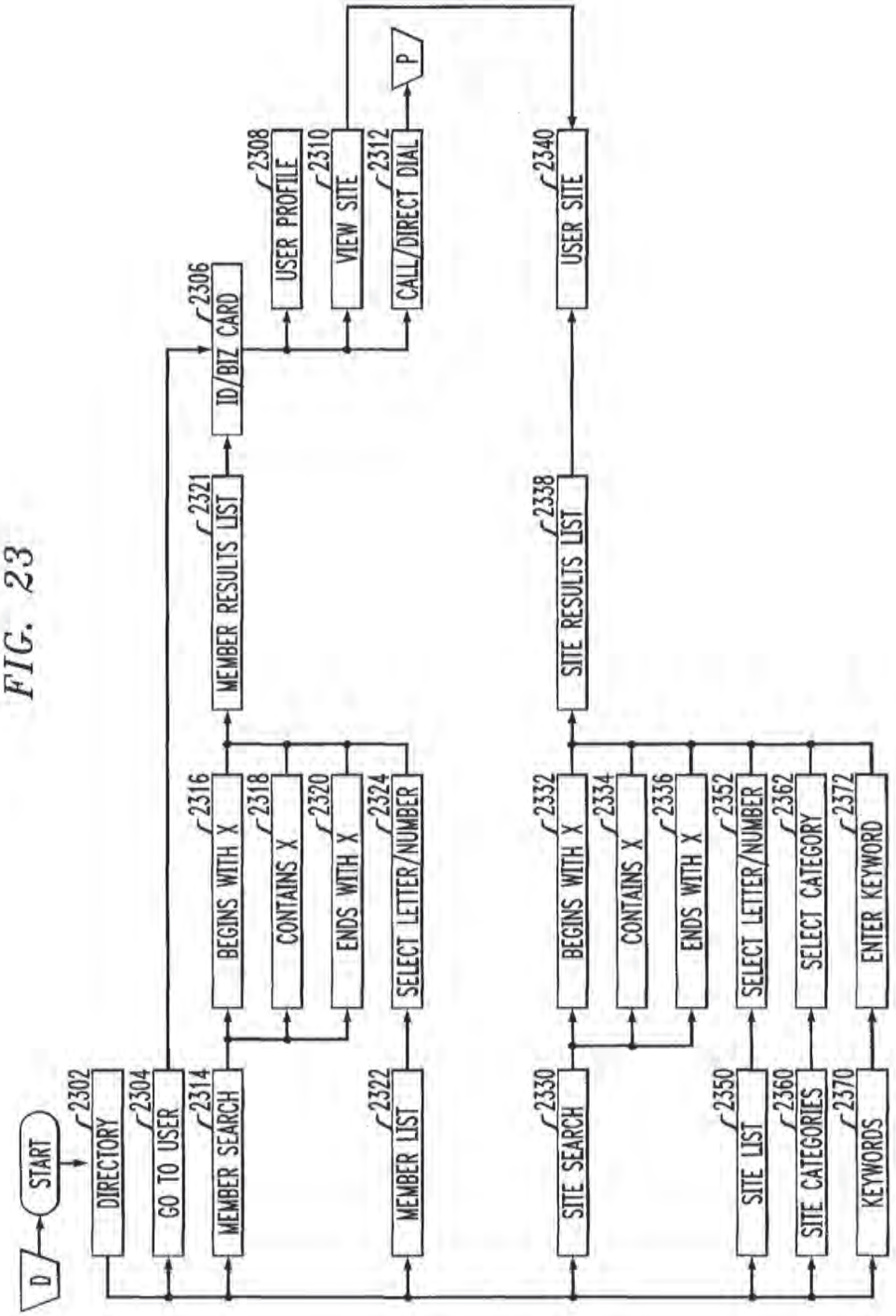

D
START
DIRECTORY
2302
GO TO USER
2304
MEMBER SEARCH
2314
BEGINS WITH X
2316
CONTAINS X
2318
ENDS WITH X
2320
SELECT LETTER/NUMBER
2324
MEMBER LIST
2322
MEMBER RESULTS LIST
2321
ID/BIZ CARD
2306
USER PROFILE
2308
VIEW SITE
2310
CALL/DIRECT DIAL
2312
P
SITE SEARCH
2330
BEGINS WITH X
2332
CONTAINS X
2334
ENDS WITH X
2336
SITE RESULTS LIST
2338
USER SITE
2340
SITE LIST
2350
SELECT LETTER/NUMBER
2352
SITE CATEGORIES
2360
SELECT CATEGORY
2362
KEYWORDS
2370
ENTER KEYWORD
2372

FIG. 24a


WINKsite
WINKsite
1 About (OK)
2 Directory (OK)
3 Go to... (OK)
4 Sign Up (OK)
5 Help (OK)
Login

FIG. 24b


WINKsite
ABOUT WINKsite
1 Description (OK)
2 Location (OK)
3 631-463-8083 (Call)
4 Version (OK)
5 Logo (OK)

WINK
WINKsite
DESCRIPTION
Description will go here.
Done
WINKsite
LOCATION
48 South Service Road
Suite 100
Melville, NY
11747
Done
WINKsite
VERSION
WINKsite V1.0
Done
WINKsite
The mobile site builder!
WINK site
Done

FIG. 24c


WINKsite
DIRECTORY
1 Member search (OK)
2 Site search (OK)
3 Member list (OK)
4 Site list (OK)
WINK

FIG. 24d


WINKsite
MEMBER SEARCH
1 Begins with (OK)
2 Contains (OK)
3 Ends with (OK)
----- DONE
WINKsite
MEMBER SEARCH
Begins with:/Contains:/Ends with:
Find
WINKsite
MEMBERS
B/C/E smith
1-9 of 134
1 Blacksmith (OK)
2 Smithsonian (OK)
...
8 Smith's World (OK)
9 Will Smith (OK)
More... (More)
----- Done
WINKsite
MEMBER LIST
1 0-9 (OK)
2 ABC (OK)
3 DEF (OK)
4 GHI (OK)
5 JKL (OK)
6 MNO (OK)
7 PQRS (OK)
8 TUV (OK)
9 WXYZ (OK)
----- Done
WINKsite
MEMBER LIST
1 A (OK)
2 B (OK)
3 C (OK)
----- Done
WINKsite
MEMBERS: A
1-9 of 26
1 Abe (OK)
2 Ace (OK)
...
8 Arvan (OK)
9 Astro (OK)
More... (More)
----- Done

FIG. 24e

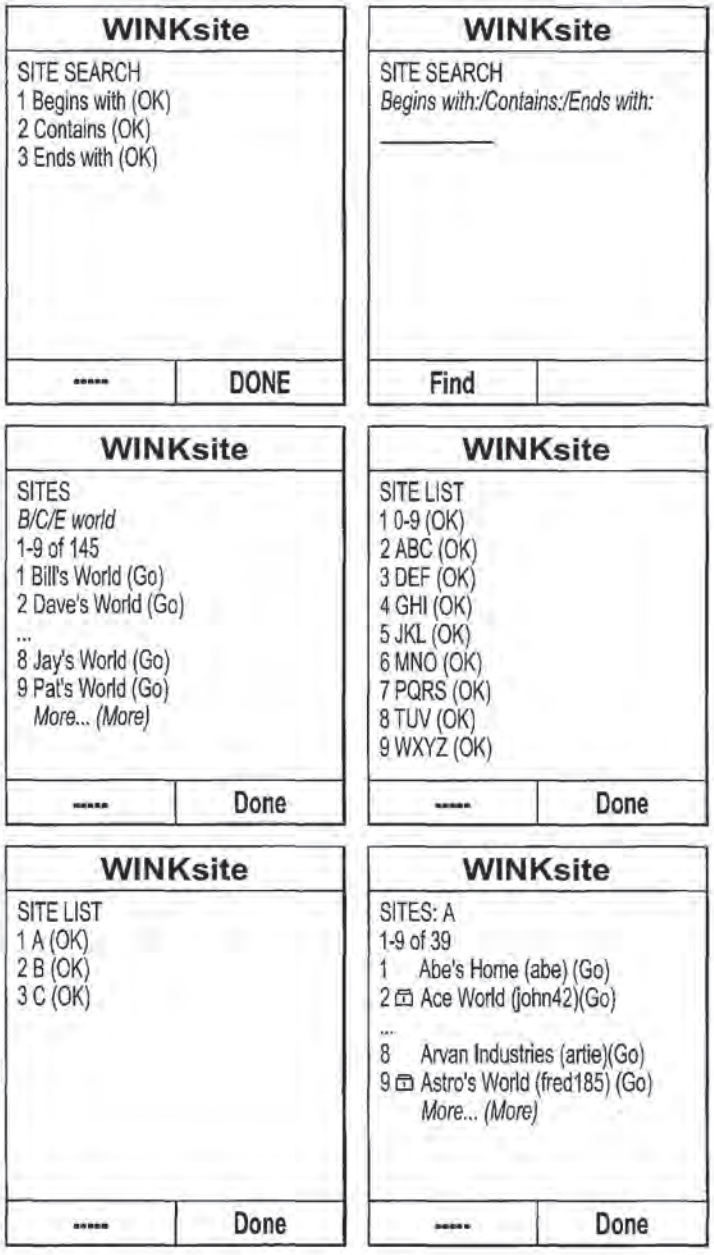

WINKsite
SITE SEARCH
1 Begins with (OK)
2 Contains (OK)
3 Ends with (OK)
----- DONE
WINKsite
SITE SEARCH
Begins with:/Contains:/Ends with:
Find
WINKsite
SITES
B/C/E world
1-9 of 145
1 Bill's World (Go)
2 Dave's World (Go)
...
8 Jay's World (Go)
9 Pat's World (Go)
More... (More)
----- Done
WINKsite
SITE LIST
1 0-9 (OK)
2 ABC (OK)
3 DEF (OK)
4 GHI (OK)
5 JKL (OK)
6 MNO (OK)
7 PQRS (OK)
8 TUV (OK)
9 WXYZ (OK)
----- Done
WINKsite
SITE LIST
1 A (OK)
2 B (OK)
3 C (OK)
----- Done
WINKsite
SITES: A
1-9 of 39
1 Abe's Home (abe) (Go)
2 Ace World (john42)(Go)
...
8 Arvan Industries (artie)(Go)
9 Astro's World (fred185) (Go)
More... (More)
----- Done

FIG. 24f

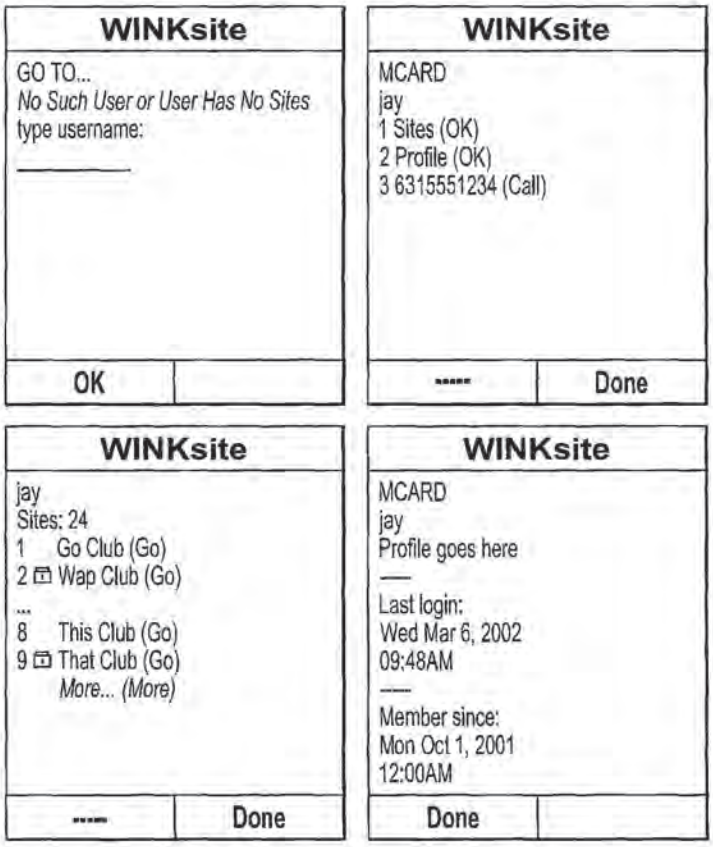


FIG. 24g



FIG. 25a



FIG. 25b



FIG. 25c

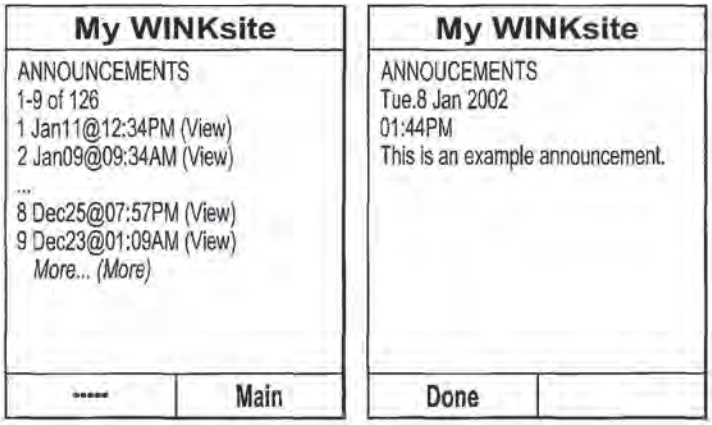


FIG. 25d

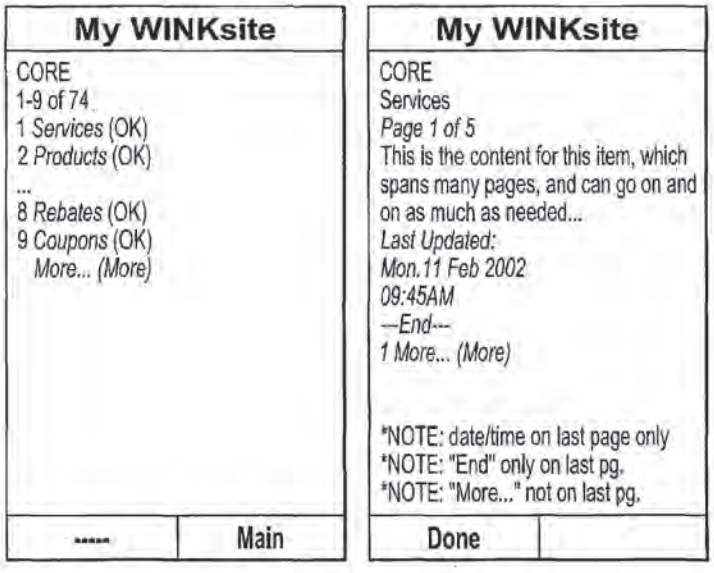


FIG. 25e

My WINKsite
AGENDA
1 Today:11
2 Tomorrow:4
3 Future:9
4 Past:23

Main
My WINKsite
AGENDA:TODAY/TM..RW/FUT../PAST
1-9 of 11
1 11Jan:Event A (OK)
2 07Jan:Event B (OK)
...
8 01Jan:Event H (OK)
9 25Dec:Event I (OK)
More... (More)

Done
My WINKsite
AGENDA:TODAY/TM..RW/FUT../PAST
Event Title A
Thu.21 Feb 2002
08:38PM
@ Event Location
Page 1 of 3
This is the content for this item, which spans many pages, and can go on and on as much as needed...
-- End --
1 More... (more)
*NOTE: title/dt/tm/loc only on 1st pg.
*NOTE: "End" only on last pg.
*NOTE: "More..." not on last pg.
Done

FIG. 25f

My WINKsite

ZINE
1-9 of 126
1 11Jan:My Issue Name A (OK)
2 09Jan:My Issue Name B (OK)
...
8 03Jan:My Issue Name H (OK)
9 30Dec:My Issue Name I (OK)
More... (More)

---- | Main

My WINKsite

ZINE
Mon.11 Jan,2002
My Issue Name A
10-18 of 23
1 My Article Title A (View)
2 My Article Title B (View)
...
8 My Article Title H (View)
9 My Article Title I (View)
More... (More)

---- | Done

My WINKsite

ZINE ARTICLE
My Article Title A
by Author
Page 1 of 3
This is the content for this item, which spans many pages, and can go on and on as much as needed...
—End—
1 More... (More)

*Note: title/author only on 1st pg.
*Note: "End" only on last pg.
*Note: "More..." not on last pg.

Done |

FIG. 25g

My WINKsite
NOTES
1-8 of 126
1 Add note (OK)
2 05Mar@11:30AM:Name A (View)
3 04Mar@02:15PM:Name B (View)
...
8 27Dec@04:32PM:Name G (View)
9 29Nov@3:13AM:Name H (View)
More... (More)

Main
My WINKsite
writing
please wait
My WINKsite
NOTES
Name A:
Note Content
Tue.5 Mar 2002
12:34PM
Skip/Done
Done/
My WINKsite
loading
please wait
My WINKsite
NOTES
Type name:
Type note:
Done
My WINKsite
Confirm logout
Yes
No

FIG. 25h

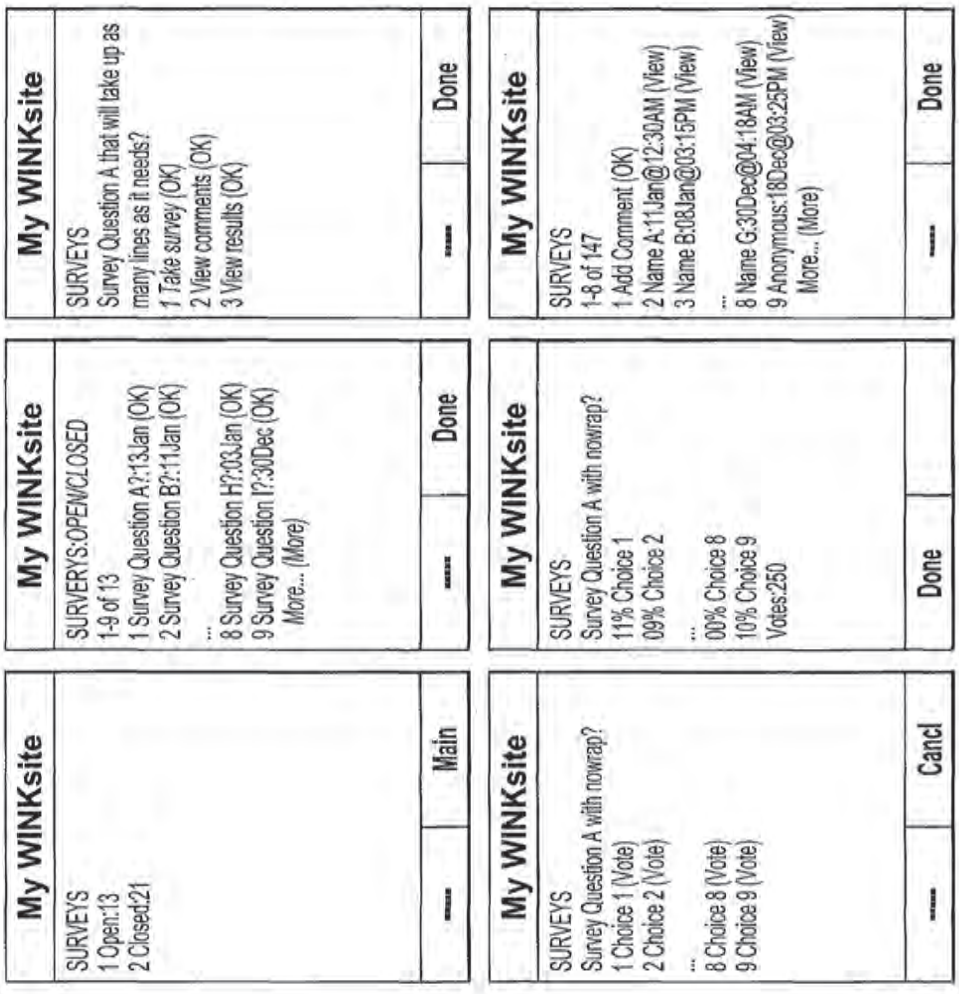
My WINKsite
RANT&RAVE
1-9 of 126
1 My Topic A:11Jan (OK)
2 My Topic B:06Jan (OK)
...
8 My Topic C:01Jan (OK)
9 My Topic D:29Dec (OK)
More... (More)

Main
My WINKsite
RANT&RAVE
My Topic
Fri.11 Jan 2002
1 View Comments (OK)
2 Add Comment (OK)

Done
My WINKsite
RANT&RAVE
1-8 of 147
1 Add Comment (OK)
2 Name A:11Jan@12:30AM (View)
3 Name B:08Jan@03:15PM (View)
...
8 Name G:30Dec@04:18AM (View)
9 Anonymous:18Dec@03:25PM (View)
More... (More)

Done
My WINKsite
RANT&RAVE
Name A:
Comment A
Mon.11 Jan 2002
02:18PM
Skip/Done
Done/
My WINKsite
RANT&RAVE
Type name:
Type comment:
OK
My WINKsite
writing
please wait
My WINKsite
loading
please wait

FIG. 25i


My WINKsite
SURVEYS
1 Open:13
2 Closed:21

Main
My WINKsite
SURVERYS:OPEN/CLOSED
1-9 of 13
1 Survey Question A?:13Jan (OK)
2 Survey Question B?:11Jan (OK)
...
8 Survey Question H?:03Jan (OK)
9 Survey Question I?:30Dec (OK)
More... (More)

Done
My WINKsite
SURVEYS
Survey Question A that will take up as many lines as it needs?
1 Take survey (OK)
2 View comments (OK)
3 View results (OK)

Done
My WINKsite
SURVEYS
Survey Question A with nowrap?
1 Choice 1 (Vote)
2 Choice 2 (Vote)
...
8 Choice 8 (Vote)
9 Choice 9 (Vote)

Cancl
My WINKsite
SURVEYS
Survey Question A with nowrap?
11% Choice 1
09% Choice 2
...
00% Choice 8
10% Choice 9
Votes:250
Done
My WINKsite
SURVEYS
1-8 of 147
1 Add Comment (OK)
2 Name A:11Jan@12:30AM (View)
3 Name B:08Jan@03:15PM (View)
...
8 Name G:30Dec@04:18AM (View)
9 Anonymous:18Dec@03:25PM (View)
More... (More)

Done

FIG. 25i cont.

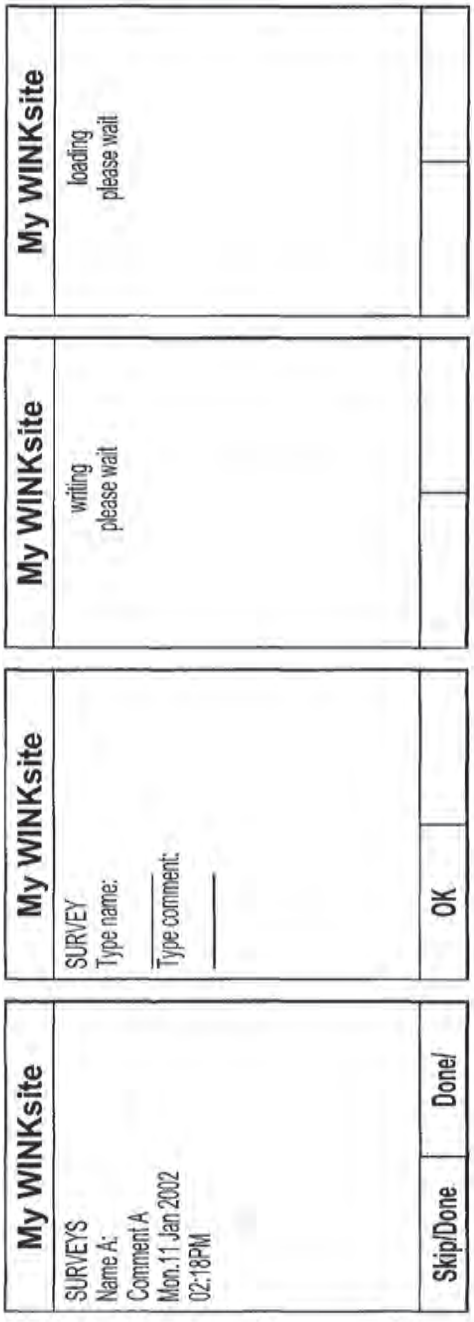
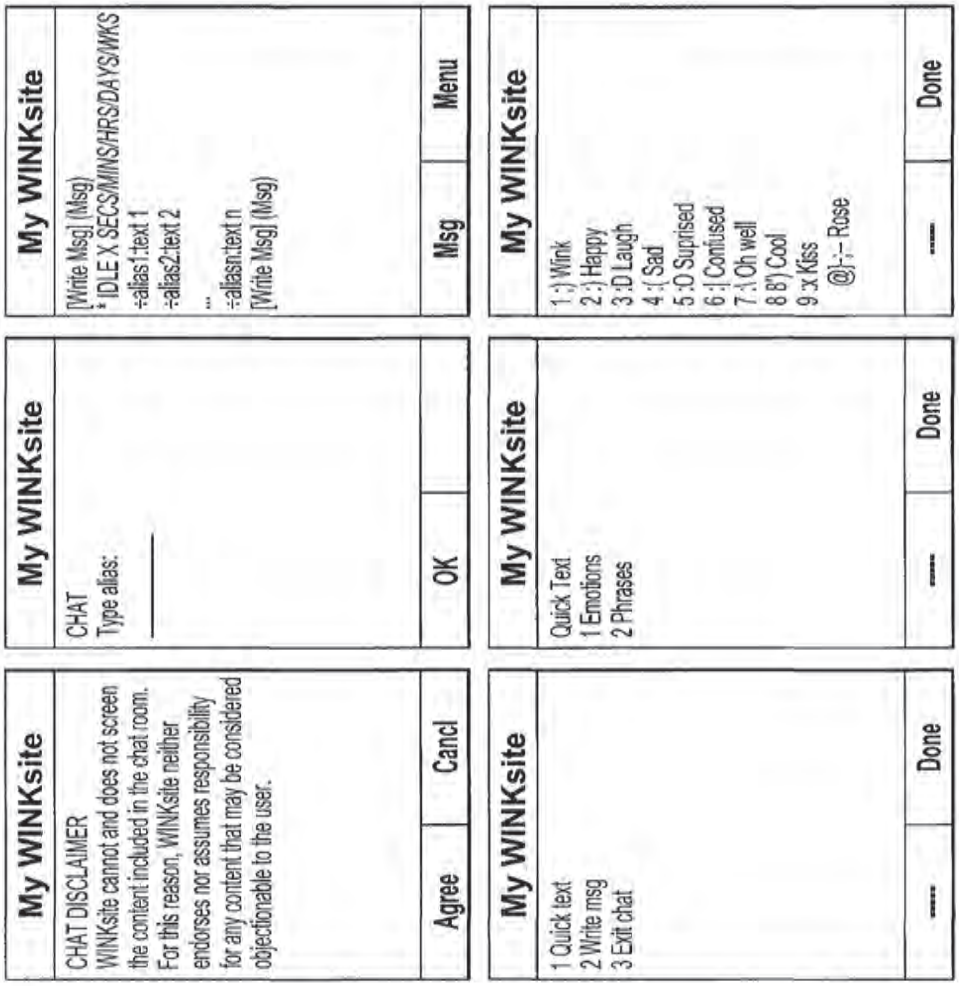

My WINKsite
SURVEYS
Name A:
Comment A
Mon.11 Jan 2002
02:18PM
Skip/Done
Done/
My WINKsite
SURVEY
Type name:
Type comment:
OK
My WINKsite
writing
please wait
My WINKsite
loading
please wait

FIG. 25j

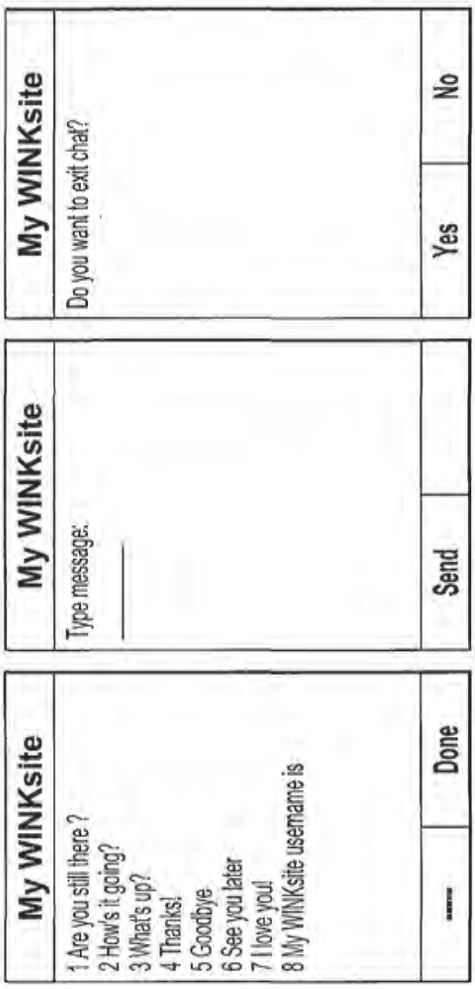

My WINKsite
CHAT DISCLAIMER
WINKsite cannot and does not screen the content included in the chat room. For this reason, WINKsite neither endorses nor assumes responsibility for any content that may be considered objectionable to the user.
Agree
Cancl
My WINKsite
CHAT
Type alias:
OK
My WINKsite
[Write Msg] (Msg)
' IDLE X SECS/MINS/HRS/DAYS/WKS
÷alias1:text 1
÷alias2:text 2
...
÷aliasn:text n
[Write Msg] (Msg)
Msg
Menu
My WINKsite
1 Quick text
2 Write msg
3 Exit chat

Done
My WINKsite
Quick Text
1 Emotions
2 Phrases

Done
My WINKsite
1 :) Wink
2 :} Happy
3 :D Laugh
4 :(Sad
5 :O Suprised
6 :| Confused
7 :\ Oh well
8 8') Cool
9 :x Kiss
@}-;-- Rose

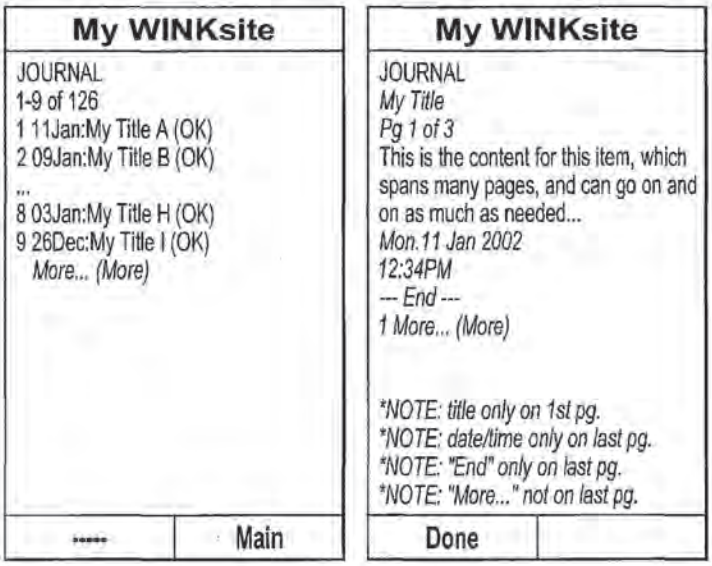
Done

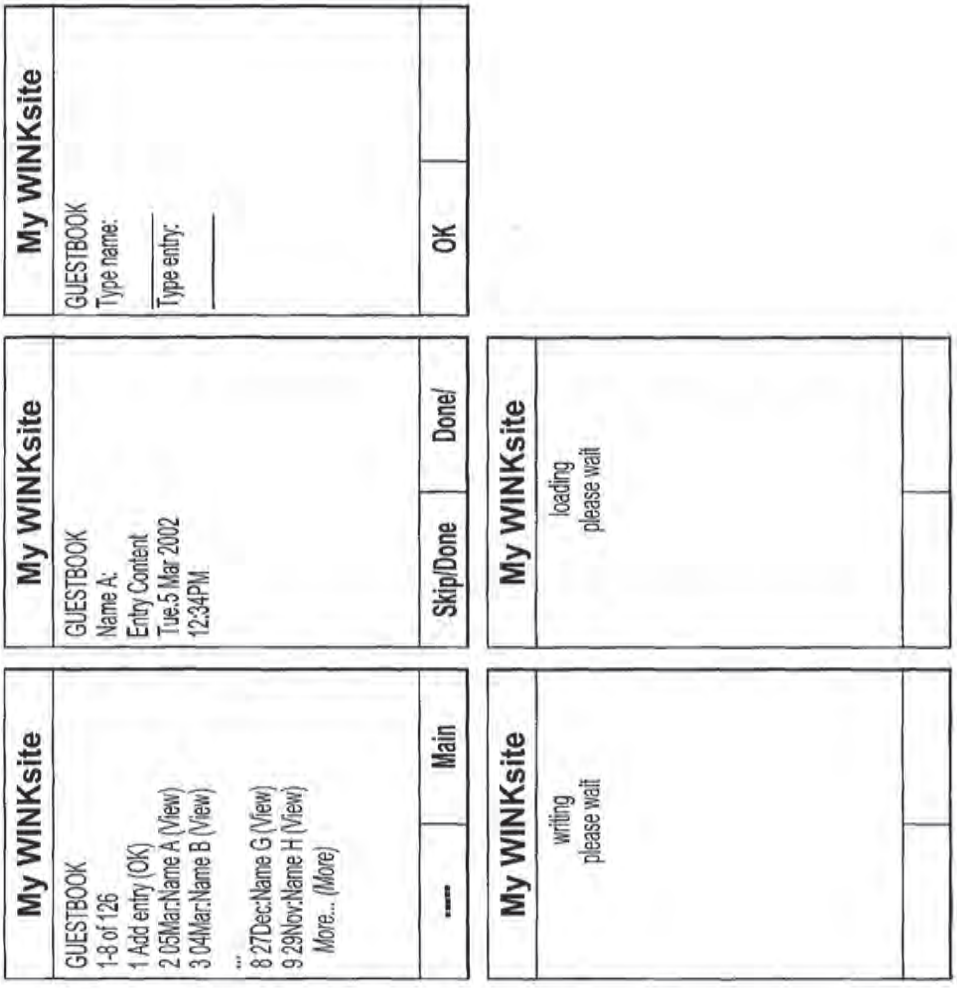
FIG. 25j cont.


My WINKsite
1 Are you still there ?
2 How's it going?
3 What's up?
4 Thanks!
5 Goodbye
6 See you later
7 I love you!
8 My WINKsite username is

Done
My WINKsite
Type message:
Send
My WINKsite
Do you want to exit chat?
Yes
No

FIG. 25k


My WINKsite
JOURNAL
1-9 of 126
1 11Jan:My Title A (OK)
2 09Jan:My Title B (OK)
...
8 03Jan:My Title H (OK)
9 26Dec:My Title I (OK)
More... (More)
Main
My WINKsite
JOURNAL
My Title
Pg 1 of 3
This is the content for this item, which spans many pages, and can go on and on as much as needed...
Mon.11 Jan 2002
12:34PM
--- End ---
1 More... (More)
*NOTE: title only on 1st pg.
*NOTE: date/time only on last pg.
*NOTE: "End" only on last pg.
*NOTE: "More..." not on last pg.
Done


My WINKsite
GUESTBOOK
1-8 of 126
1 Add entry (OK)
2 05Mar:Name A (View)
3 04Mar:Name B (View)
...
8 27Dec:Name G (View)
9 29Nov:Name H (View)
More... (More)

Main
My WINKsite
GUESTBOOK
Name A:
Entry Content
Tue.5 Mar 2002
12:34PM
Skip/Done
Done/
My WINKsite
GUESTBOOK
Type name:
Type entry:
OK
My WINKsite
writing
please wait
My WINKsite
loading
please wait

FIG. 25l

FIG. 25m

FIG. 25n

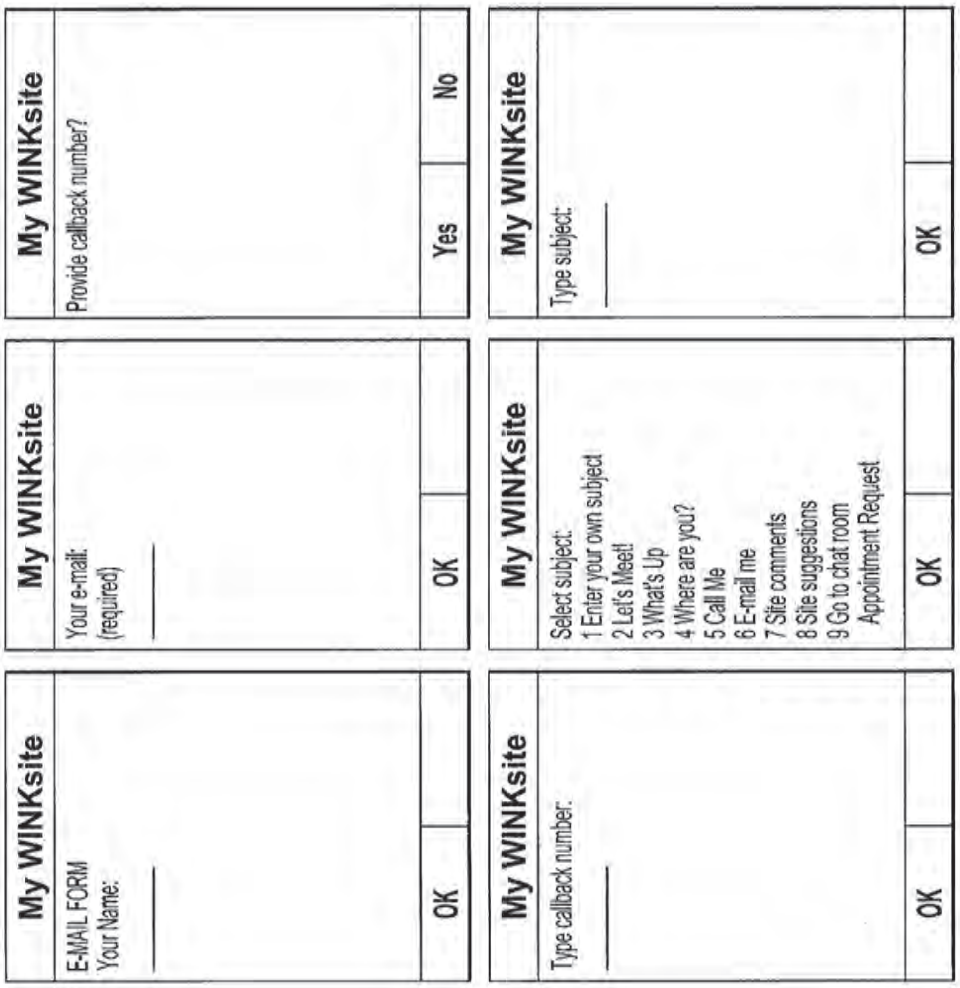
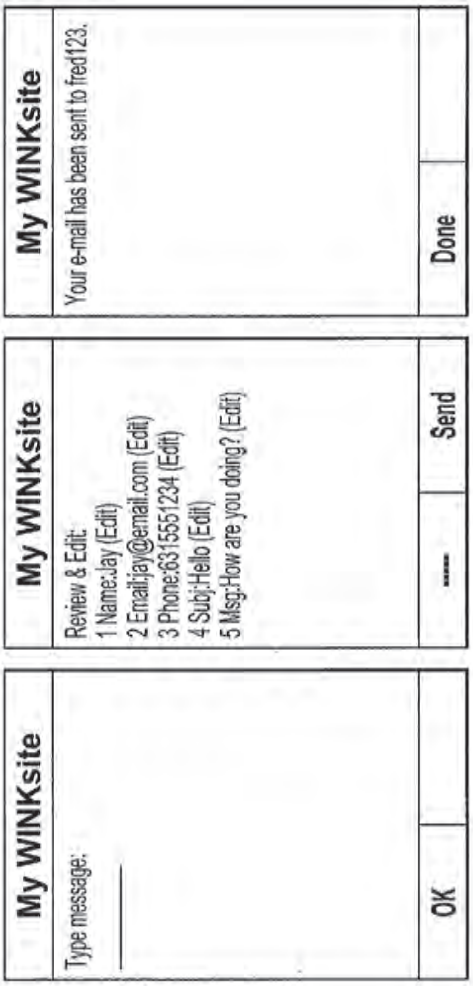

My WINKsite
E-MAIL FORM
Your Name:
OK
My WINKsite
Your e-mail:
(required)
OK
My WINKsite
Provide callback number?
Yes
No
My WINKsite
Type callback number:
OK
My WINKsite
Select subject:
1 Enter your own subject
2 Let's Meet!
3 What's Up
4 Where are you?
5 Call Me
6 E-mail me
7 Site comments
8 Site suggestions
9 Go to chat room
Appointment Request
OK
My WINKsite
Type subject:
OK

FIG. 25o

FIG. 25o cont.


My WINKsite
Type message:
OK
My WINKsite
Review & Edit:
1 Name:Jay (Edit)
2 Email:jay@email.com (Edit)
3 Phone:6315551234 (Edit)
4 Subj:Hello (Edit)
5 Msg:How are you doing? (Edit)

Send
My WINKsite
Your e-mail has been sent to fred123.
Done

Outside Counsel Docket No. 1018-2 CON5

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 or equivalent) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5. If the Power of Attorney by Applicant form is not accompanied by this transmittal form or an equivalent, the Power of Attorney will not be recognized in the application.

Application Number	14/324,698
Filing Date	2014-07-07
First Named Inventor	David Walker Harper
Title	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	1018-2 CON5

SIGNATURE of Applicant or Patent Practitioner

Signature	/Joseph B. Ryan/	Date	2014-07-07
Name	Joseph B. Ryan	Telephone	(631) 393-6155
Registration Number	37,922		

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

☐ *Total of _____ forms are submitted.

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

PTO/AIA/82B (07-13)
Approved for use through 11/30/2014. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☑ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 31825

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Wireless Ink Corporation

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☑ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ 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) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	/David Walker Harper/	Date (Optional)	July 7, 2014
Name	David Walker Harper		
Title	President		

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

☑ Total of 1 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.

Electronic Acknowledgement Receipt	
EFS ID:	19507859
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Anita Cocchiola
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CONS
Receipt Date:	07-JUL-2014
Filing Date:	
Time Stamp:	16:45:34
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	1018-2CONS_POA.pdf	327420	no	2
Warnings:					
Information:					

Total Files Size (in bytes):	327420

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 FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 14/324,698

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	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*	x 40 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2			TOTAL	730		TOTAL	

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($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
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))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
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))							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 found in the appropriate box in column 1.

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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
14/324,698	07/07/2014	2414	730	1018-2 CON5	20	3

CONFIRMATION NO. 6600

31825
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

FILING RECEIPT

OC000000069678589

Date Mailed: 07/21/2014

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

David Walker Harper, Bay Shore, NY;
Jason James Sabella, Coram, NY;
William Henry Munch, Tampa, FL;

Applicant(s)

Wireless Ink Corporation, East Islip, NY

Power of Attorney: The patent practitioners associated with Customer Number 31825

Domestic Priority data as claimed by applicant

This application is a CON of 14/175,768 02/07/2014
which is a CON of 13/364,950 02/02/2012 PAT 8793336
which is a CON of 13/027,519 02/15/2011 PAT 8135801
which is a CON of 12/548,928 08/27/2009 PAT 7908342
which is a CON of 10/464,526 06/18/2003 PAT 7599983
which claims benefit of 60/389,430 06/18/2002

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

If Required, Foreign Filing License Granted: 07/17/2014
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/324,698**
Projected Publication Date: 10/30/2014

Non-Publication Request: No

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

METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

Preliminary Class

370

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant:	Wireless Ink Corporation
Inventor(s):	David Walker Harper et al.
Docket No.:	1018-2 CON5
Serial No.:	14/324,698
Filing Date:	July 7, 2014
Group:	2414
Examiner:	Boris M. Pesin
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility over Wireless Communication Networks

---

PRELIMINARY AMENDMENT

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

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE CLAIMS

1-20. (Canceled)

21. (New) A method comprising:

providing an interface permitting designation of content, via a mobile device, for insertion into an application-based information channel via a mobile device; and

integrating the content and information associated with at least one wireless networking functionality of the mobile device into the application-based information channel.

22. (New) The method of claim 21 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises location information of the mobile device.

23. (New) The method of claim 21 wherein integrating the content and the information associated with said at least one wireless networking functionality of the mobile device comprises:

obtaining location information of the mobile device; and

inserting additional content into the application-based information channel based on the obtained location information.

24. (New) The method of claim 21 wherein integrating the content and the information associated with said at least one wireless networking functionality of the mobile device comprises:

obtaining product-identifying information over at least one wireless network; and

inserting additional content into the application-based information channel based on the obtained product-identifying information.

25. (New) The method of claim 24 wherein inserting the additional content into the application-based information channel based on the received product-identifying information comprises inserting information relating to at least one of product ordering and product purchase support.

26. (New) The method of claim 21 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises one of: location-based service information; one or more messaging actions implementable over a wireless network; and one or more collaboration actions implementable over the wireless network.

27. (New) The method of claim 21 further comprising providing, via the interface, one or more content integration options to the user.

28. (New) A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs, wherein said executable program code when executed by a processing element implements the steps of the method of claim 21.

29. (New) An apparatus comprising:

a processing element comprising a processor coupled to a memory;

the processing element providing at least a portion of an interface permitting designation of content, via a mobile device, for insertion into an application-based information channel; and

the processing element being configured to integrate the content and information associated with at least one wireless networking functionality of the mobile device into the application-based information channel.

30. (New) The apparatus of claim 29 wherein the processing element comprises at least one server accessible over the Internet via a network interface.

31. (New) A network-based communication system comprising a plurality of servers configured to communicate over a network, a given one of the servers comprising the apparatus of claim 29.

32. (New) A method comprising:

designating content, via a mobile device, for insertion into an application-based information channel; and

providing information associated with at least one wireless networking functionality of the mobile device for integration with the content into the application-based information channel.

33. (New) The method of 32 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises location information of the mobile device.

34. (New) The method of claim 32 wherein providing the information associated with said at least one wireless networking functionality of the mobile device comprises:

providing one or more content integration options to a user;

receiving user input selecting at least one of the content integration options; and

determining the information associated with said at least one wireless network functionality of the mobile device in accordance with the selected content integration options.

35. (New) The method of claim 32, wherein at least a portion of the content is obtained from a device-captured data source of the mobile device, the device-captured data source comprising a source of at least one of device-captured video data, device-captured audio data and device-captured location coordinates.

36. (New) A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs, wherein said executable program code when executed by a processing element implements the steps of the method of claim 32.

37. (New) A mobile device comprising:

a processing element comprising a processor coupled to a memory; and

a network interface;

the processing element being configured to:

designate content for insertion into an application-based information channel; and

provide information associated with at least one wireless networking functionality of the mobile device for integration with the content into the application-based information channel.

38. (New) The mobile device of claim 37 wherein the mobile device comprises one of a mobile telephone, a tablet computer and a camera.

39. (New) The mobile device of claim 37 wherein the mobile device comprises a global positioning system (GPS)-based navigational device.

40. (New) The mobile device of claim 37 wherein the mobile device comprises a watch or other timepiece.

41. (New) A method comprising:

providing an interface permitting a user to insert content, via a mobile device, into an application-based information channel; and

integrating the content and information associated with at least one wireless networking functionality of the mobile device into the application-based information channel.

42. (New) A method comprising:

accessing an interface using a mobile device;

providing content to at least one server for insertion into an application-based information channel using the interface; and

providing information associated with at least one wireless networking functionality of the mobile device to said at least one server responsive to user input.

REMARKS

The present application was filed on July 7, 2014 with claims 1-20. Claims 1-20 are canceled, and new claims 21-42 are added. Applicant submits that the amendments made herein do not add new matter.

Early and favorable consideration is respectfully solicited.

Respectfully submitted,

/Joseph B. Ryan/

Date: September 22, 2014

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Attorney for Applicant
Reg. No. 37,922
Ryan, Mason & Lewis, LLP
48 South Service Road, Suite 100
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(631) 393-6155

Electronic Patent Application Fee Transmittal	
Application Number:	14324698
Filing Date:	07-Jul-2014
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan/Nancy Crowe
Attorney Docket Number:	1018-2 CON5
Filed as Small Entity	

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Claims in excess of 20	2202	2	40	80
Independent Claims in Excess of 3	2201	3	210	630
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	710

Electronic Acknowledgement Receipt	
EFS ID:	20209041
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Nancy Crowe
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CONS
Receipt Date:	22-SEP-2014
Filing Date:	07-JUL-2014
Time Stamp:	17:19:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$710
RAM confirmation Number	4694
Deposit Account	500762
Authorized User	RYAN, JOSEPH B.
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 1.19 (Document supply fees) Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)	

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	Preliminary Amendment	1018-2CON5_PreliminaryAmendment_9-22-14.pdf	409184	no	6
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32323	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	441507		

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New Applications Under 35 U.S.C. 111
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National Stage of an International Application under 35 U.S.C. 371
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New International Application Filed with the USPTO as a Receiving Office
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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/324,698	Filing Date 07/07/2014	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT	09/22/2014	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 22	Minus	** 20	= 2	X $40 =	80
	Independent (37 CFR 1.16(h))	* 6	Minus	*** 3	= 3	X $210 =	630
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	710

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

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

LIE
/MARSHA RICHARDS/

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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Docket No. 1018-2 CON5

Outside Counsel Docket No. 1018-2 CON5

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

As the below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ The attached application, or
- ☑ United States application or PCT international application number 14/324,698 filed on July 7, 2014.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: David Walker Harper

Signature: 

Date: 9/25/2014

Docket No. 1018-2 CON5

Outside Counsel Docket No. 1018-2 CON5

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

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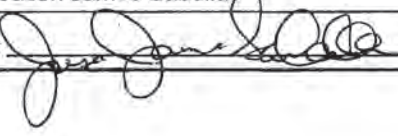
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LEGAL NAME OF INVENTOR

Inventor: Jason James Sabella Date: 9/25/2014

Signature: 

Docket No. 1018-2 CON5

Outside Counsel Docket No. 1018-2 CON5

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

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- ☑ United States application or PCT international application number 14/324,698 filed on July 7, 2014

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LEGAL NAME OF INVENTOR

Inventor: William Henry Munch Date: 10/1/14

Signature: _____

Electronic Acknowledgement Receipt	
EFS ID:	20326491
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/James Lyons
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON5
Receipt Date:	03-OCT-2014
Filing Date:	07-JUL-2014
Time Stamp:	16:14:07
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	Oath or Declaration filed	1018-2CON5_DEC_Harper.pdf	97551	no	1
Warnings:					
Information:					

2	Oath or Declaration filed	1018-2CON5_DEC_Sabella.pdf	97989	no	1
Warnings:					
Information:					
3	Oath or Declaration filed	1018-2CON5_DEC_Munch.pdf	63225	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	258765		

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National Stage of an International Application under 35 U.S.C. 371
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New International Application Filed with the USPTO as a Receiving Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5

CONFIRMATION NO. 6600

31825
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

PUBLICATION NOTICE

OC000000071817405

Title:METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

Publication No.US-2014-0325369-A1
Publication Date:10/30/2014

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The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

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

PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris M. Pesin
	Attorney Docket Number	1018-2 CON5

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					
If you wish to add additional U.S. Patent citation information please click the Add button.						

U.S.PATENT APPLICATION PUBLICATIONS						
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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FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐
If you wish to add additional Foreign Patent Document citation information please click the Add button								

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris M. Pesin
	Attorney Docket Number	1018-2 CON5

	1	Decision of the United States Court of Appeals for the Federal Circuit in Wireless Ink Corporation v. Google Inc. et al. and Wireless Ink Corporation v. Facebook Inc. et al., Nos. 2013-1683 and 2013-1684, 2 pages, July 16, 2014.	☐
	2	Decision of the Patent Trial and Appeal Board in Facebook, Inc., Requester v. Wireless Ink Corp., Patent Owner, Appeal No. 2014-007363, Reexamination Control No. 95/001,989, October 30, 2014, 15 pages.	☐
	3	Record of Oral Hearing Before the Patent Trial and Appeal Board in Facebook, Inc., Requester v. Wireless Ink Corp., Patent Owner, Appeal 2014-007363, Reexamination Control No. 95/001,989, October 1, 2014, 20 pages.	☐

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

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	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris M. Pesin
	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-11-21
Name/Print	Joseph B. Ryan	Registration Number	37922

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.**

Electronic Acknowledgement Receipt

EFS ID:	20782261
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Emmanuel Laurent
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON5
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Application Type:	Utility under 35 USC 111(a)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON5_IDS_11-24-14.pdf	324289	no	3
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2	Non Patent Literature	1018-2CON5_REF1n.pdf	113016 [illegible]	no	2
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(Not for submission under 37 CFR 1.99)

Application Number	14324698
Filing Date	2014-07-07
First Named Inventor	David Walker Harper
Art Unit	2172
Examiner Name	Boris Pesin
Attorney Docket Number	1018-2 CON5

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	2	5450344		1995-09-12	Woo et al.	
	3	5712679		1998-01-27	Coles	
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	Examiner Name	Boris Pesin
	Attorney Docket Number	1018-2 CON5

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	10	6914626	B2	2005-07-05	Squibbs	
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	1	20020087601	A1	2002-07-04	Anderson et al.	

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	Attorney Docket Number	1018-2 CON5

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	15	20040123131	A1	2004-06-24	Zacks et al.	

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	1	GB2249202	GB	A	1992-04-29			☐
	2	JP3910794	JP	B2	2007-04-25			☐

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	1	Corrected Opening Bnef for Appellant Wireless Ink Corporation filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, April 2, 2015, 141 pages.	☐

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	Examiner Name	Boris Pesin
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	Examiner Name	Boris Pesin
	Attorney Docket Number	1018-2 CON5

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☐ The 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	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2015-04-17
Name/Print	Joseph B. Ryan	Registration Number	37922

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(12) UK Patent Application (19) GB (11) 2 249 202 (13) A

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H4D D23X D235 D264 D550 D561 D576 D580 D584
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(56) Documents cited
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(58) Field of search
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INT CL[5] A63B, G06F
On-line database : W.P.I.

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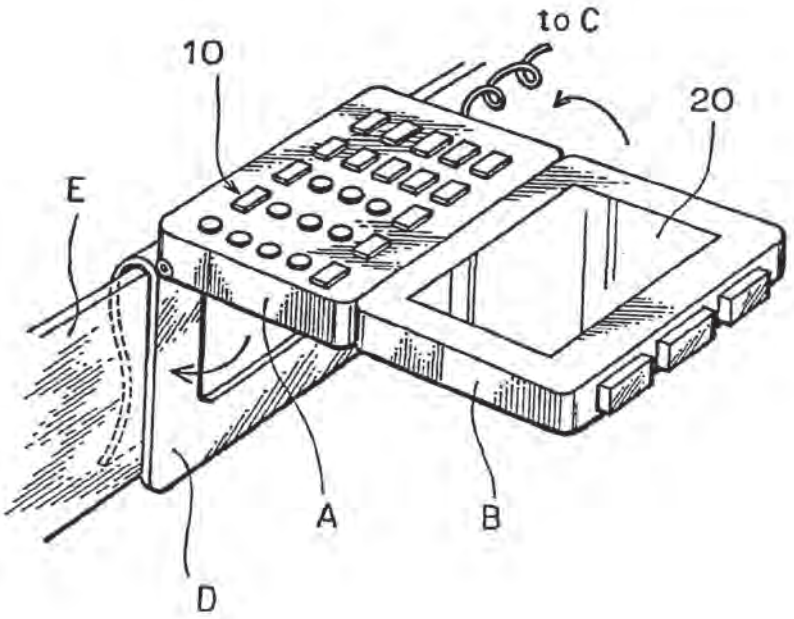
(74) Agent and/or Address for Service
Beresford & Co
2-5 Warwick Court, High Holborn, London, WC1R 5DJ, United Kingdom

(54) Golfing data recorder

(57) Data on golf play is recorded by apparatus carried by a player and comprised of an input unit A, B to be operated by the player at each place where a stroke is played, a global-positioning-satellite (GPS) receiver unit, and a unit for measuring the locations of the apparatus by means of the GPS receiver in response to operation of the input unit and for storing the location, score and club selection data. The data stored may be displayed at 20, or transferred to a base computer after the game for processing and display of the successive play locations superimposed over a simulated map of a golf course. The apparatus may be mounted on the player's belt E.

The GPS receiver may operate in conjunction with a fixed receiver at the clubhouse, to provide a differential positioning system of greater accuracy.

Fig.1



GB 2 249 202 A

Fig. 1

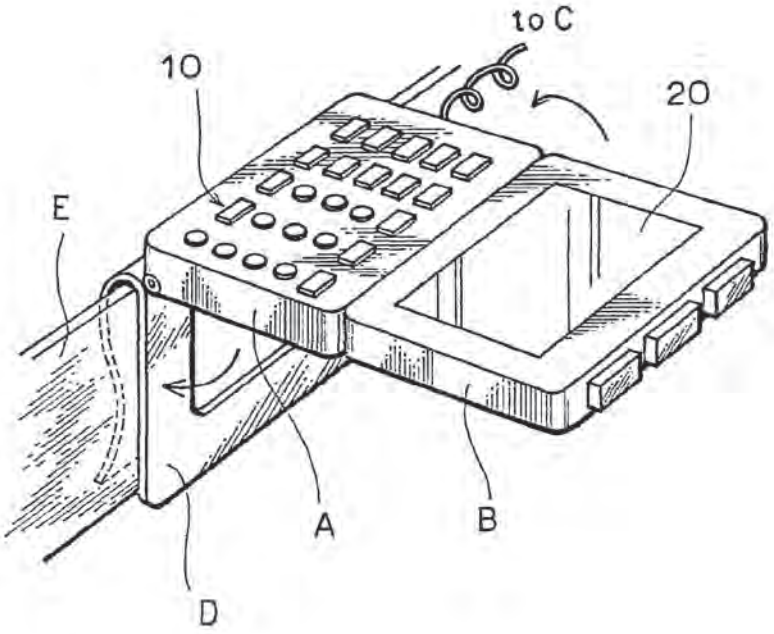


Fig. 2

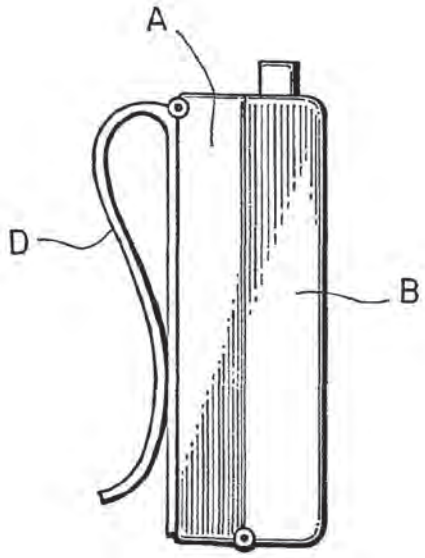


Fig. 3

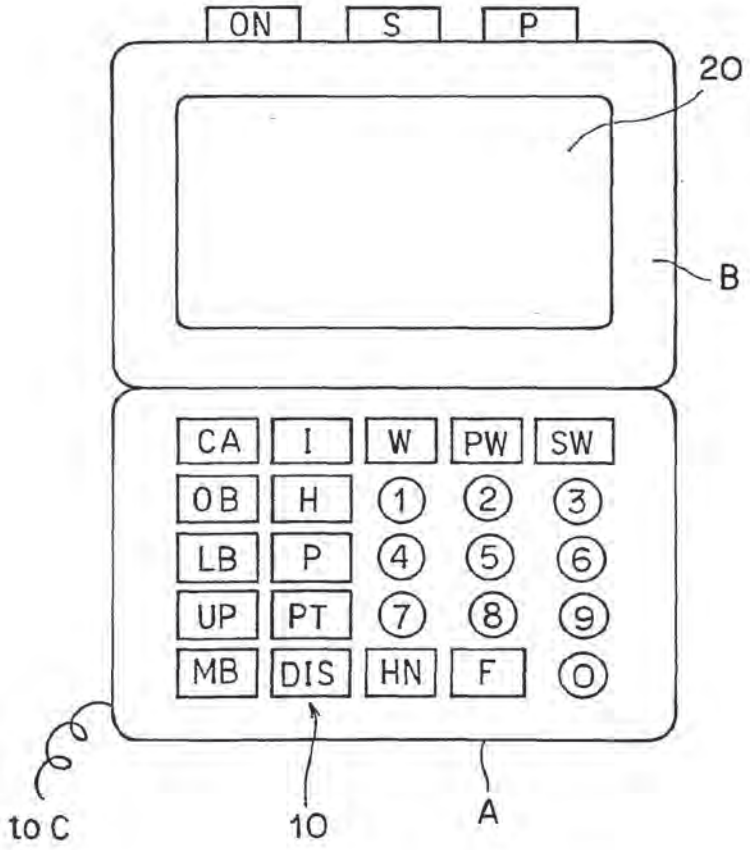
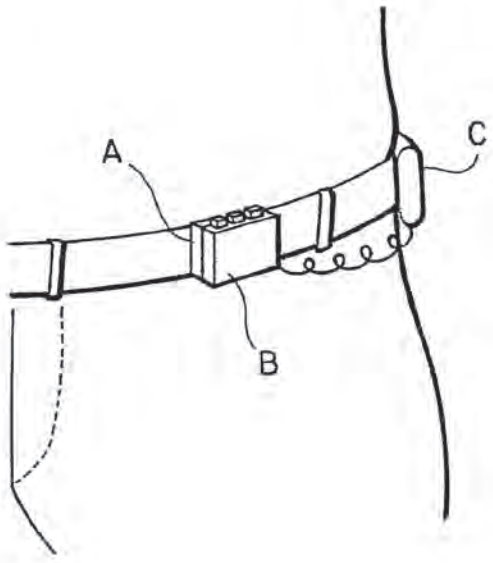


Fig. 4.



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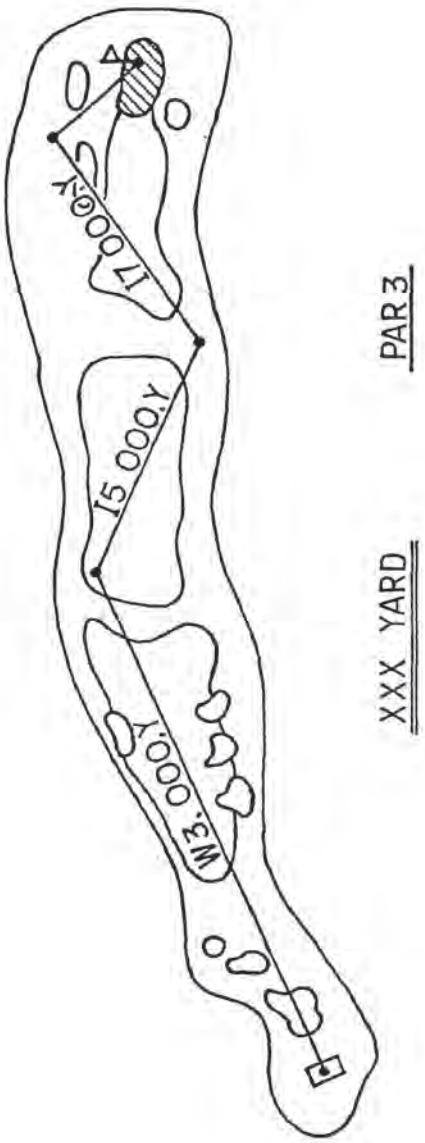
Fig. 5



10
OPERATION SECTOR (KEY, BUTTON)
30
LOCATION SECTOR (GPS RECEIVER)
40
MEMORY SECTOR
20
DISPLAY SECTOR (LCD PANEL)
50
COMPUTATION SECTOR

Fig. 6

7/10



XXX YARD PAR 3

Fig. 7

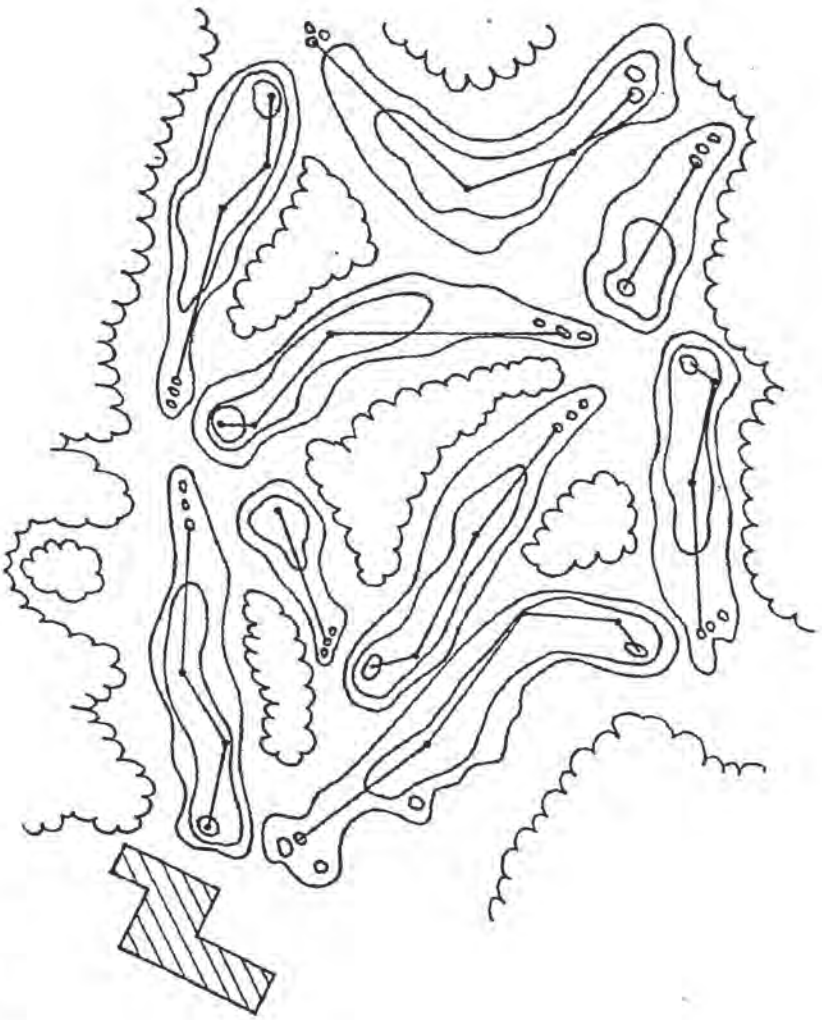


Fig. 8

Fig. 9

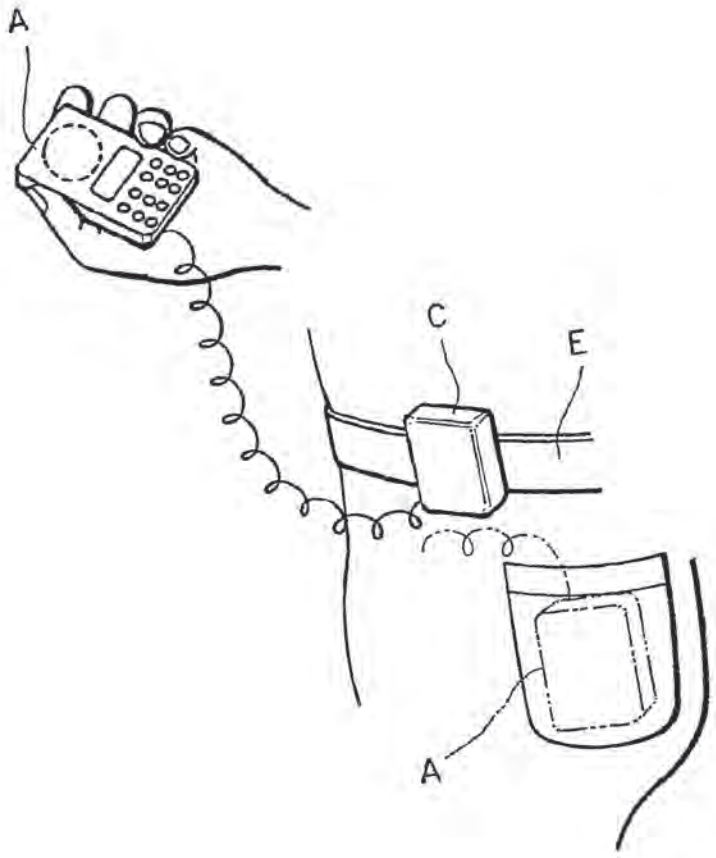
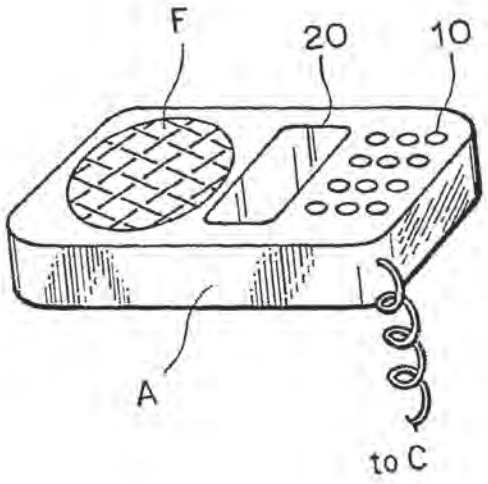


Fig.10



SPECIFICATION

TITLE OF THE INVENTION

APPARATUS FOR RECORDING DATA ON GOLF PLAY AND METHOD FOR DISPLAYING THE DATA

FIELD OF THE INVENTION

This invention relates to an apparatus for recording data on golf play to be carried by a golf player or caddy assistant and a method for displaying the same data or information therefrom with use of a suitble data processing installation.

DESCRIPTION OF THE RELATED ART

It has been conventionally well known that scores of a golf player are recorded into a paper card, but such scoring is nuisance, and if not assisted with other data, such a record does not make a good reference to evaluate his golfing technique, because the scores are much dependent on a golf course design; sometimes easy and sometimes hard to obtain a good result.

For the purpose of knowing a golfer's correct capability, it is customarily accepted advice to record, together with conventional scores, data on each carry distance of his shot as well as each location of his ball through the green to produce as an image a route map for his shots covering from a tee shot to a green. Further, the data on which numbered club or what identified club was used versus how long a carry distance was obtained makes

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advisable information to brush up the golfing technique.

SUMMARY OF THE INVENTION

This invention is intended to offer a gadget or apparatus for recording data on golf play which general golfers are enabled to conveniently handle while playing and by which he or she can store his shot history including a route map for each hole.

Other aspects of this invention are to offer an apparatus for recording a carry distance of his shot and such data in relation to a club used and for facilitating score countings, and summing up thereof, further to offer a method comprising displaying a route map of his shots in a superimposed form on a simulated map of each hole course on a display screen.

An aspect of this invention features a portable apparatus for recording data on golf play to be carried by a player, which comprises: an operation sector to be operated by the player at a place of a tee shot and at other places where a shot ball is located in a golf course; a GPS receiver; a measurement sector for measuring where the apparatus is present in response to each operative act on the operation sector; a memory sector for storing data on locations measured by the measurement sector.

Therein the apparatus of the invention enables finding a carry distance of a shot based on the data which is prestored in the memory sector and the same sector will store the result, and the operation sector enables storing the data on which club is used,

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thereby the relationship of the club used with a carry distance will be recorded. Further operation sector will store the scores, thereby conventional manual writing of scores into a paper card is replaced by electronic means and such data is enabled to display on the screen. The GPS receiver which defines the location sector is desirably a system for locating a place by differential navigation system.

Another aspect of this invention features a method of display which comprises: reading out data on locations stored in the memory sector of the apparatus; and joining such locations to image a route map which will be displayed in a superimposed form on a simulated map of the golf course concerned. Therein the data on carry distances and/or on the clubs used are enabled to be displayed together with the route map mentioned above.

The term "GPS" stands for the navigation system with use of Global Positioning Satellites, which system is today available any time to locate a position of a receiver. This invention features that the apparatus including the GPS receiver is carried by a golf player or caddy assistant or anybody who serves to the player while walking around the course, and he is meant to input the locations of the tee shots and of the locations where his shot ball is found in the golf course, by which inputs the basis for imaging the route map is built up.

It is to be noted here that, in the present invention, another electronic and communications installtion including a GPS stationary

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receiver is meant to be set up on the roof of a club house, for example, to assist the job of location by a navigation system, that is, by the differential navigation system for improvement in measurements. In addition, during a passage which a golfer would take, there are a number of points to be made the datum or standard points, for example, places for tee shots, and places for hole out. measurements at such places enable corrections, by which further improvement in the accuracy are obtained. Consequently, with use of such a simple portable GPS receiver as a moving station, it is certainly allowed to build up a route map for his ball.

Herein, the art of trajectography, a kind of differential navigation system, has a higher accuracy (plus/minus about 0.5 meter) than an ordinary differential navigation system (plus/minus about 2 meters). The use of the trajectography reduces a possible error distance and hence more advantage.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 shows a perspective view of key portions of an embodied apparatus for recording data on golf play.

Fig. 2 shows a side view of key portions of the same apparatus.

Fig. 3 shows a plan view of key portions of the same apparatus.

Fig. 4 shows a perspective view of the apparatus in whole when carried at the waist belt of a person.

Fig. 5 shows a perspective view of another antenna when carried at the waist belt of a person.

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Fig. 6 shows a block diagram to explain the internal construction of the apparatus.

Fig. 7 shows a record prepared by a method of the present invention.

Fig. 8 shows another record with the same concept as above.

Fig. 9 shows a perspective view of another example of the apparatus in whole when carried at the waist belt of a person.

Fig. 10 shows key portions of the apparatus with the same concept as in Fig. 9.

These drawings are presented to illustrate the invention, and therefore these should not be construed as limiting the invention.

DESCRIPTION OF THE EMBODIMENT(S)

Below, the invention will be described on embodiment(s) with reference to the drawings.

A preferred embodiment of the present invention has, as Figs. 1 to 4 show, an input panel A and a cover B which is linked by a hinge, and an apparatus body C which is connected by a wire to the input panel A. The panel A may be carried at a belt of a golfer by a hook which is provided on the back side of the panel A, and it is closed with the cover B when the panel A is out of use.

On the input panel A, there are numeral keys or ten keys and additionaly, four club designation keys; I (iron clubs), W (wood clubs), PW (pitching club), SW (sand wedge), and seven other data input keys each to designate; OB (out of bound), LB (lost ball), UP

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(unplayable), H (hazard), P (penalty), PT (puttings), MB (membership number), DIS (display of the record), HN (hole number), F (finish), C (cancel). These define input means 10 together with three other keys which will be noted later.

On the cover B provided are a liquid crystal dispaly (LCD) panel 20 as a display means, and three keys as noted above to input which number of tee start-hole in (ON), shot (S) to denote how many shots, penalty (P) to denote how many penalty.

The apparatus body C connected to the input panel A contains a GPS receiver, micro-computer, IC memory, and antenna. The GPS receiver is of the differential navigation system to perform locations. The antenna is of helical type, but in the case of microstrip type, the antenna F may be of external equipment type as Fig. 5 shows.

The differential navigation system means a system which includes another stationary receiver station in addition to an outstanding moving receiver station. Therein, a stationary station and a moving station or portable receiver will receive waves from the same satellites and in the meantime, the stationary receiver will inevitably produce some errors, but the stationary receiver error can be determined and by cancelation or correction of such error from the moving receiver data in deciding locations of the moving receiver, the accuracy is improved. Therein, the stationary station as noted above is desirably the type of having an equal or a higher accuracy than the moving one and is desirably set up, for example, on the top of the club house, and it is desirably operated to

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receive location data during the time covering the golf play and to store data on the stationary one, which will make the background date. And after finished the play, with use of the data stored in the stationary one through treatment of software, errors found at the stationary are canceled or corrected from the data measured by the moving one to the most accurate data. In the post treatment as noted above, the data that were measured at known points, for example, places of tee shots, places of green holes, helps to further correction.

The component units contained in the apparatus body C; GPS receiver, microcomputer, and IC memory, provides functionally the system of location sector 30, memory sector 40, and computation sector 50 as shown in Fig. 6. Therein, through input operations by keys or pushbuttons, various data are sent to the location sector 30 and memory sector 40. The computation sector 50 will compute with use of the data stored in the memory sector 40, of which results will be sent to the memory sector 40. And therefrom the data will be, according to call-out instructions, displayed in the LCD panel 20 as function of the display sector. Below, further details involved will be described.

A golfer who comes to a tee shot place at each hole is meant to start the inputs by pushing the key of tee start-hole in, by which the location of the tee shot is measured and the data thereof is stored. He is also meant to input the hole number. After the tee shot, he is meant to input when he comes to the location of his

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ball in the golf course. Then, each time he inputs a location of his ball, data on these locations and carry distances are memorized and computed, and displayed, with shot countings. And Identity of the clubs used is meant to be input as necessary.

As noted before, the data on carry distances will be further corrected when the data is post-treated with use of the computer installation connected with the stationary receiving station installed in the club house.

After the green-on, the golfer is meant to input the shot key at the location of putting each time or to push the key of tee start-hole in and threafter to input the number of puttings after the hole out. The input of the putting count is done by pushing a numeral key after the key of putting count. Then, GPS receivers normally available as portable type are hardly enabled of discriminating different places on a green, therefore only putting counts will persist although the shot key was pushed.

When an out of bound, lost ball or another penalty case takes place, he is meant to use appropriate keys or shot count equivalent to the penalty.

Scores input are all stored, which may be reviewed by displaying on the LCD panel 20 as desired. The information according to the inventive idea on the method aspect in this invention, that is, display of the outcome will be present after the finish of golf play as will be noted below.

After the play is finished, in the club house or at the place where

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the stationary installation is set up, the data stored in the portable apparatus is sent a computer accompanying to the stationary receiver for post treating and editing of the data to convert them to further information. The data sent includes the hole numbers, route of shots, carry distances, scores, identity of clubs, penalty counts, putting counts. The computer is meant to correct the data as noted before and to prepare an image of a route map for each hole which is displayed on a screen attached to the computer as shown in Fig. 7, wherein the route of shots is superimposed on a simulated hole map and as required, carry distances and identity of the clubs are numerically displayed. Further through computer operation, a simulated bird-eye-view map covering the whole holes with the ball routes is prepared and displayed as shown in Fig. 8, wherein weather data; wind, rain, are imparted as required. Further a score table, ranking table in a competition, and correlation between a club used and wind nature may be prepared, wherein players' handicaps can be taken into acount in preparation of the competition list.

The data or information thus prepard are stored in an auxiliary memory sector, which will be used for the purpose of deciding handicaps of players, average performance for a season or through a year to serve to players.

The embodiment(s) as noted above is not limitative, but illustrative. For example, design of the apparatus, layout of the

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operation sector, process of treating the data may be changed to suit convenience in case. Fig. 9 shows a perspective view of another embodiment of the present invention, and Fig. 10 shows key portions of the same in enlarged view.

Referring to this embodiment, the apparatus comprises the operation panel A and the apparatus body C. The operation panel A is meant to be connected to the body C which is fastened to a belt E of a golfer and it is carried with placed in a pocket while inoperative. This operation panel A icludes, in addition to the operation sector 10, the LCD display panel 20, and antenna F. This type of apparatus has more freedom with the operation panel A, easier operation, and easier to change a position and/or a direction of the antenna F when put in the receiving status. Thereby, avoidance of possible obstruction by other persons or trees nearby may be performed. Further, such modification is allowable as installing antennas singly in the operation panel A and the body C so as to receive the navigation message from the satellites by the antenna A and to use the antenna C as location measurements.

Use of the apparatus and method of the present invention permits, without making trouble in playing golf, recording of routes of golfers's balls with aid of a GPS receiver, and the records thus obtained facilitates golfers to have a chance of reviewing their level or defects and thereby to improve their technique, wherein they are entitled to know real carry distance under various conditions and correlation of clubs used to carry distances, and

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they can stock such information. Further manual writing into a conventional paper card is replaced by electronic memorization of such data, which will dispense with the paper cards.

Use of the visual display produced by the present invention gives strong impression to golfers who are enabled to understand their technique so objective together with other conditions which were difficult to be taken into consideration quantitatively. Speaking from the management of a golf course, they need not use the location system by use of the GPS receiver, which lessens their initial installation cost, and they can offer better service by use of the system to customer playhers.

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CLAIM

What is claimed is:

1. An apparatus for recording data on golf play to be carried by a player himself, which comprises:

an operation sector to be operated by the player at a place of tee shot and at each place where his shot ball is located;

a GPS receiver unit;

a measurement sector for measuring a location of the apparatus by the GPS receiver in response to each operative act on the operation sector;

a memory sector for storing a location the data measured by the measurement sector.

2. An apparatus as claimed in claim 1, wherein the apparatus further comprises a computer sector for computing a carry distance of the ball based on the data stored in the memory sector.

3. An apparatus as claimed in claim 1, wherein the data stored in the memory sector further comprises a score played, and/or an identity of a club used.

4. An apparatus as claimed in claim 1, wherein the apparatus further comprises a display sector which displays the data stored in the memory sector.

5. An apparatus as claimed in claim 1, wherein the GPS receiver uses a location system which conforms to differential navigation system.

6. A method for displaying data on golf play, which comprises:

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inputting data on golf play with use of an apparatus which is defined and comprised of;

an operation sector to be operated by the player at a place of tee shot and at each place where his shot ball is located;

a GPS receiver unit;

a measurement sector for measuring a location of the apparatus by the GPS receiver in response to each operative act on the operation sector;

a memory sector for storing a location the data measured by the measurement sector;

reading out the data on locations of a golf ball from the memory sector of the apparatus;

and connecting the ball locations to produce a route map for the ball; and

displaying said route map in superimposed manner over a simulated map of a golf course.

7. A method for displaying data on golf play as claimed in claim 6, which comprises displaying a carry distance of a hit ball computed from the location data and/or identity of a club used, together with the route map for the ball, in superimposed manner over the simulated map of the golf course.

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8. Apparatus substantially as hereinbefore described with reference to and as shown in the accompanying drawings.

9. A method of displaying data on golf play substantially as hereinbefore described with reference to the accompanying drawings.

Patents Act 1977
Examiner's report to the Comptroller under Section 17 (The Search Report)

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Category (see over)	Identity of document and relevant passages	Relevant to claim(s)
A	WO 88/00487 A1 (TRANSCONTINENTAL CART) see whole document	1-9
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Category	Identity of document and relevant passages	Relevant to claim(s)

Categories of documents

X: Document indicating lack of novelty or of inventive step.

Y: Document indicating lack of inventive step if combined with one or more other documents of the same category.

A: Document indicating technological background and/or state of the art.

P: Document published on or after the declared priority date but before the filing date of the present application.

E: Patent document published on or after, but with priority date earlier than, the filing date of the present application.

&: Member of the same patent family, corresponding document.

Databases: The UK Patent Office database comprises classified collections of GB, EP, WO and US patent specifications as outlined periodically in the Official Journal (Patents). The on-line databases considered for search are also listed periodically in the Official Journal (Patents).

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VIDEO RETRIEVAL FILE PREPARING METHOD, HOMEPAGE UPDATING METHOD AND VIDEO RETRIEVING METHOD

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- cooperative:

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Abstract of JP2002152637 (A)

PROBLEM TO BE SOLVED: To provide a video retrieving method capable of easily retrieving a video. SOLUTION: A CPU reads record data Dr (S1) and prepares a video index file Fi (S2). The CPU next converts the photographing location data of the video index file Fi into photographing place name data (S3) and sorts a record (S4). Then, the CPU prepares an HTML file HMp for a place name index (S5), and further prepares an HTML file HMt for a data and time index (S6). The CPU next uploads a video retrieval file Fs and each video data Dv to a server 6 (S7).

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(54)【発明の名称】映像検索ファイル作成方法およびホームページ更新方法

(57)【特許請求の範囲】

【請求項1】

被写体を撮影して得た映像データ、撮影日時を示す撮影日時データ、および撮影場所を示す撮影位置データの組を一つの記録データとし、複数の前記記録データに基づいて、前記各映像データを検索するための映像検索ファイルを作成する映像検索ファイル作成方法であって、

前記各映像データの格納場所を各々特定して、各格納場所を示す各映像リンクデータを生成し、

前記各撮影位置データを、撮影地名を示す各撮影地名データに変換し、

前記各記録データ、前記各映像リンクデータ、前記各撮影地名データに基づいて、データ項目として、撮影位置、撮影地名、撮影日時、および映像データの格納場所を含むレコードを複数、備えた基礎ファイルを生成し、

前記基礎ファイルに基づいて、重複のないように前記撮影地名データを特定し、特定された各撮影地名データを予め用意した地名テンプレートデータに書き込んで地名ファイルを生成し、

予め用意した日時テンプレートデータを用いて、前記地名ファイルに書き込まれた前記各撮影地名データに一対一に対応して、各日時ファイルを生成するとともに、生成された各日時ファイルと前記各撮影地名データとを関連付ける各日時リンクデータを前記地名ファイルに書き込み、

前記基礎ファイルを参照して、リンク元の撮影地名データに対応する一または複数の前

記撮影日時データをリンク先の前記日時ファイルに書き込み、
前記基礎ファイルを参照して、前記日時ファイルに書き込まれた一または複数の前記撮影日時データに各々対応する前記映像リンクデータを前記日時ファイルに書き込み、
前記地名ファイルと複数の前記日時ファイルとを備えた前記映像検索ファイルを作成する
ことを特徴とする映像検索ファイル作成方法。
【請求項2】
前記撮影位置データは撮影位置を緯度経度で表したものであり、緯度経度を示す位置データと地名を示す地名データとを対応付けて記憶したテーブルを参照して、前記各撮影位置データを前記各撮影地名データに変換することを特徴とする請求項１に記載の映像検索ファイル作成方法。
【請求項3】
前記地名ファイル、前記地名テンプレートデータ、前記日時テンプレートデータおよび前記日時ファイルは、ＨＴＭＬ形式で記述されていることを特徴とする請求項１に記載の映像検索ファイル作成方法。
【請求項1】
被写体を撮影して得た映像データ、撮影日時を示す撮影日時データ、および撮影場所を示す撮影位置データの組を一つの記録データとし、複数の前記記録データに基づいて、前記各映像データを検索するための映像検索ファイルを作成する映像検索ファイル作成方法であって、
前記各映像データの格納場所を各々特定して、各格納場所を示す各映像リンクデータを生成し、
前記各撮影位置データに基づいて、地図上に各アイコンを表示すべき座標を示す各表示座標データを生成し、
前記各記録データ、前記各映像リンクデータ、前記各表示座標データに基づいて、データ項目として、撮影位置、表示座標、および映像データの格納場所を含むレコードを前記記録データの数だけ備えた基礎ファイルを生成し、
前記地図を表示させるために予め用意した地図データと、前記各表示座標データとに基づいて、前記各表示座標データの指示する各座標位置に前記各アイコンを前記地図と重ねて表示させる地図ファイルを生成し、
予め用意した日時テンプレートデータを用いて、前記各アイコンに一対一に対応して各日時ファイルを生成するとともに、生成された各日時ファイルと前記各アイコンとを関連付ける各日時リンクデータを前記地図ファイルに書き込み、
前記基礎ファイルを参照して、リンク元のアイコンに対応する一または複数の前記撮影日時データをリンク先の前記日時ファイルに書き込み、
前記基礎ファイルを参照して、前記日時ファイルに書き込まれた一または複数の前記撮影日時データに各々対応する前記映像リンクデータを前記日時ファイルに書き込み、
前記地図ファイルと複数の前記日時ファイルとを備えた前記映像検索ファイルを作成する
ことを特徴とする映像検索ファイル作成方法。
【請求項5】
前記各撮影位置データを前記地図上の各座標を示す各座標データに変換し、
前記各座標データの示す各座標が予め定められたどの領域に含まれるかを特定し、
同一領域内に一個の撮影位置データがある場合には、当該撮影位置データを表示座標データとする一方、同一領域内に複数の座標データが含まれる場合には、当該複数の座標データに基づいてそれらを代表する代表座標データを生成し、代表座標データを前記表示座標データとする
ことを特徴とする請求項４に記載の映像検索ファイル作成方法。
【請求項6】
前記地図ファイル、前記日時テンプレートデータおよび前記日時ファイルは、ＨＴＭＬ

形式で記述されていることを特徴とする請求項４に記載の映像検索ファイル作成方法。
【請求項7】
前記撮影位置データおよび前記撮影日時データは、撮影時におけるＧＰＳ衛星からの電波を復調して得たものであることを特徴とする請求項１または４に記載の映像検索ファイル作成方法。
【請求項8】
映像検索ファイルと映像データとを含むホームページデータを更新するホームページ更新方法であって、
請求項１または４に記載した映像検索ファイル作成方法によって、前記映像検索ファイルを生成し、
前記各記録データから抽出した前記各映像データと前記映像検索ファイルとを通信網を介してサーバにアップロードする
ことを特徴とするホームページ更新方法。

【発明の詳細な説明】
【０００１】
【発明の属する技術分野】
本発明は、映像の検索が容易にできる映像検索方法、映像検索ファイル作成方法、およびこの方法によって作成された映像検索ファイルを含むホームページ更新方法に関する。
【０００２】
【従来の技術】
近年、ビデオ一体型カメラは、撮影した映像をデジタル化して記録再生できるようになっている。くわえて、ビデオ一体型カメラをパーソナルコンピュータに接続して、ビデオ一体型カメラで再生した映像データをパーソナルコンピュータに取り込んで、デジタル的に映像を編集する技術が普及しつつある。
【０００３】
【発明が解決しようとする課題】
ところで、映像データの編集作業では、素材となる複数の映像データの中から所望の映像データを選び出してある映像データと他の映像データを継ぐ処理を繰り返し、一つの作品を完成させている。この編集作業において最も時間がかかるのが映像データを検索する工程である。
【０００４】
しかしながら、従来、記録媒体に記録した映像を検索するには、利用者が、いつ頃、どこで撮影した映像かを思い出し、テープケースの背表紙に記載された日時、場所から該当しそうな記録媒体を選び出し、選び出した記録媒体をデジタルビデオ再生装置に装填して、利用者がその内容を順次再生させながら、求める映像をさがさねばならなかった。特に、業務用の映像については、その記録媒体の数は膨大であり、検索にかかる作業者の負担が大きいという問題があった。
【０００５】
この発明は上述した事情に鑑みてなされ、映像の検索が容易にできる映像検索方法および映像検索ファイル作成方法、ならびに映像検索ファイルを用いたホームページ更新方法を提供することを目的としている。
【０００６】
【課題を解決するための手段】
上記課題を解決するために、請求項１に記載の発明にあっては、被写体を撮影して得た映像データ、撮影日時を示す撮影日時データ、および撮影場所を示す撮影位置データの組を一つの記録データとし、複数の前記記録データに基づいて、前記各映像データを検索するための映像検索ファイルを作成する映像検索ファイル作成方法であって、前記各映像データの格納場所を各々特定して、各格納場所を示す各映像リンクデータを生成し、前記各撮影位置データを、撮影地名を示す各撮影地名データに変換し、前記各記録データ、前記各映像リンクデータ、前記各撮影地名データに基づいて、データ項目として、撮影位置、撮

影地名、撮影日時、および映像データの格納場所を含むレコードを複数、備えた基礎ファイルを生成し、前記基礎ファイルに基づいて、重複のないように前記撮影地名データを特定し、特定された各撮影地名データを予め用意した地名テンプレートデータに書き込んで地名ファイルを生成し、予め用意した日時テンプレートデータを用いて、前記地名ファイルに書き込まれた前記各撮影地名データに一対一に対応して、各日時ファイルを生成するとともに、生成された各日時ファイルと前記各撮影地名データとを関連付ける各日時リンクデータを前記地名ファイルに書き込み、前記基礎ファイルを参照して、リンク元の撮影地名データに対応する一または複数の前記撮影日時データをリンク先の前記日時ファイルに書き込み、前記基礎ファイルを参照して、前記日時ファイルに書き込まれた一または複数の前記撮影日時データに各々対応する前記映像リンクデータを前記日時ファイルに書き込み、前記地名ファイルと複数の前記日時ファイルとを備えた前記映像検索ファイルを作成することを特徴とする。

【０００７】

また、請求項２に記載の発明にあっては、前記撮影位置データは撮影位置を緯度経度で表したものであり、緯度経度を示す位置データと地名を示す地名データとを対応付けて記憶したテーブルを参照して、前記各撮影位置データを前記各撮影地名データに変換することを特徴とする。

また、請求項３に記載の発明にあっては、前記地名ファイル、前記地名テンプレートデータ、前記日時テンプレートデータおよび前記日時ファイルは、ＨＴＭＬ形式で記述されていることを特徴とする請求項１に記載の映像検索ファイル作成方法。

【０００８】

また、請求項４に記載の発明にあっては、被写体を撮影して得た映像データ、撮影日時を示す撮影日時データ、および撮影場所を示す撮影位置データの組を一つの記録データとし、複数の前記記録データに基づいて、前記各映像データを検索するための映像検索ファイルを作成する映像検索ファイル作成方法であって、前記各映像データの格納場所を各々特定して、各格納場所を示す各映像リンクデータを生成し、前記各撮影位置データに基づいて、地図上に各アイコンを表示すべき座標を示す各表示座標データを生成し、前記各記録データ、前記各映像リンクデータ、前記各表示座標データに基づいて、データ項目として、撮影位置、表示座標、および映像データの格納場所を含むレコードを前記記録データの数だけ備えた基礎ファイルを生成し、前記地図を表示させるために予め用意した地図データと、前記各表示座標データとに基づいて、前記各表示座標データの指示する各座標位置に前記各アイコンを前記地図と重ねて表示させる地図ファイルを生成し、予め用意した日時テンプレートデータを用いて、前記各アイコンに一対一に対応して各日時ファイルを生成するとともに、生成された各日時ファイルと前記各アイコンとを関連付ける各日時リンクデータを前記地図ファイルに書き込み、前記基礎ファイルを参照して、リンク元のアイコンに対応する一または複数の前記撮影日時データをリンク先の前記日時ファイルに書き込み、前記基礎ファイルを参照して、前記日時ファイルに書き込まれた一または複数の前記撮影日時データに各々対応する前記映像リンクデータを前記日時ファイルに書き込み、前記地図ファイルと複数の前記日時ファイルとを備えた前記映像検索ファイルを作成することを特徴とする。

【０００９】

また、請求項５に記載の発明にあっては、前記各撮影位置データを前記地図上の各座標を示す各座標データに変換し、前記各座標データの示す各座標が予め定められたどの領域に含まれるかを特定し、同一領域内に一個の撮影位置データがある場合には、当該撮影位置データを表示座標データとする一方、同一領域内に複数の座標データが含まれる場合には、当該複数の座標データに基づいてそれらを代表する代表座標データを生成し、代表座標データを前記表示座標データとすることを特徴とする。

また、請求項６に記載の発明にあっては、前記地図ファイル、前記日時テンプレートデータおよび前記日時ファイルは、ＨＴＭＬ形式で記述されていることを特徴とする。

【００１０】

また、請求項７に記載の発明にあっては、前記撮影位置データおよび前記撮影日時データは、撮影時におけるＧＰＳ衛星からの電波を復調して得たものであることを特徴とする。

また、請求項８に記載の発明にあっては、映像検索ファイルと映像データとを含むホームページデータを更新するホームページ更新方法であって、請求項１または４に記載した映像検索ファイル作成方法によって、前記映像検索ファイルを生成し、前記各記録データから抽出した前記各映像データと前記映像検索ファイルとを通信網を介してサーバにアップロードすることを特徴とする。

【００１３】

【発明の実施の形態】

次に、本発明の実施の形態について説明する。

１．第１実施形態

１－１：第１実施形態の構成

１－１－１：映像検索システムの全体構成

図１は、本実施形態における映像検索システムの全体構成の一例を示すブロック図である。同図に示すように、映像検索システムは、ビデオ一体型カメラ１、パーソナルコンピュータ（以下、ＰＣという）２、および複数のＧＰＳ(global positioning system)衛星３１、３２、…を備えている。

【００１４】

まず、ＧＰＳ衛星３１、３２、…は、各々衛星原子時計を備え、この衛星原子時計に基づいて現在の日時を示す日時データＤｔを生成し、これを所定の変調方式で変調した電波を地上に向けてそれぞれ送信する。地上にあるＧＰＳ受信機は、複数のＧＰＳ衛星３１、３２、…から電波を同時に受信し、受信電波を復調して複数の日時データＤｔを取得する。各ＧＰＳ受信機は、時計を内蔵し、この時計から現在の日時ｎｔを知ることができる。各ＧＰＳ受信機は、ＧＰＳ衛星３１、３２、…からの電波を受信し、該受信したときの日時ｎｔと、各日時データＤｔが指示する日時との差分に基づいて各ＧＰＳ衛星３１、３２、…までの距離を推量する。これらの距離を所定の計算式に代入することによって、ＧＰＳ受信機は、現在の緯度経度を知ることができる。

【００１５】

次に、ビデオ一体型カメラ１は、ＧＰＳ衛星３１、３２、…からの電波の受信を行うＧＰＳ受信機１ａや撮影ボタン１ｂを備えている。このＧＰＳ受信機１ａは上述したＧＰＳ受信機に相当する。ＧＰＳ受信機１ａは、算出した緯度経度を位置データＤｐとして、任意に選択した１つの日時データＤｔとともに出力する。また、ビデオ一体型カメラ１は、被写体を撮像して得た映像データＤｖを記録し、必要に応じてこれを再生する。この際、ビデオ一体型カメラ１は、ＧＰＳ受信機１ａが出力する位置データＤｐを撮影場所を示す撮影位置データＤｐｓとして、日時データＤｔを撮影日時を示す撮影日時データＤｔｓとして、映像データＤｖとともに記録媒体２６に記録する。

【００１６】

また、図示の状態では、ビデオ一体型カメラ１は、ＰＣ２と有線にて接続されているが、利用者が、ビデオ一体型カメラ１をＰＣ２から切り離して自由に持ち歩くこともできる。

【００１７】

次に、ＰＣ２は、ビデオ一体型カメラ１から映像データＤｖとともに撮影位置データＤｐｓおよび撮影日時データＤｔｓを読み込み、この映像データＤｖを編集したり、あるいは、映像データＤｖを検索するための各種ＨＴＭＬファイルを作成する。ビデオ一体型カメラ１の利用者は、ＰＣ２を用いて映像データＤｖを含むホームページデータを生成し、これを後述するサーバ６にアップロードすることができる。

【００１８】

さらに、映像検索システムは、インターネット４、サーバ６、およびＰＣ５を備えている。まず、インターネット４は、世界規模の通信ネットワークであり、ＰＣ２、サーバ６、およびＰＣ５と接続されている。

【００１９】
次に、サーバ６は、外部からアクセス可能な記憶部を有している。また、サーバ６は、ＰＣ２からのアップロードによりホームページデータを取得し、取得したホームページデータを記憶部に記憶する。これにより、ホームページデータは、インターネット４を介して公開される。
【００２０】
次に、ＰＣ５は、ブラウザ機能を有しており、インターネット４を介してサーバ６にアクセス可能である。このＰＣ５によって第三者は、ホームページデータを取得し、このデータに基づいてホームページを閲覧することができる。
【００２１】
くわえて、映像検索システムは、ゲートウェイ装置（以下、ＧＷという）７、移動体通信網８、複数の無線基地局９１、９２、…、および複数の携帯電話機１０１、１０２、…を備えている。
【００２２】
まず、ＧＷ７は、インターネット４と移動体通信網８とに接続され、両者間でデータを相互にやり取りする。移動体通信網８は、移動端末用の通信ネットワークであり、複数の無線基地局９１、９２、…と接続される。各無線基地局９１、９２、…は、複数の携帯電話機１０１、１０２、…との間に無線リンクを形成する。各携帯電話機１０１、１０２、…は、通話機能にくわえてブラウザ機能も有している。したがって、各携帯電話機１０１、１０２、…は、無線基地局９１、９２、…、移動体通信網８、ＧＷ７、およびインターネット４を介してサーバ６にアクセス可能である。
【００２３】
１－１－２：ビデオ一体型カメラの構成
次に、ビデオ一体型カメラ１の詳細な構成について説明する。図２は、ビデオ一体型カメラ１の電気的構成の一例を示すブロック図である。同図に示すように、ビデオ一体型カメラ１は、ＧＰＳ受信機１ａ、撮像部２３、キー入力部２４、記録再生部２５、記録媒体２６、制御部２７、表示部２８、およびインターフェース部２９を備える。
【００２４】
ＧＰＳ受信機１ａはＧＰＳアンテナ２１およびＧＰＳ処理部２２を備えている。ＧＰＳアンテナ２１は、ＧＰＳ衛星31、32、…からの電波の受信を行う。
【００２５】
ＧＰＳ処理部２２は、ＧＰＳアンテナ２１から出力される変調信号を復調して各日時データＤｔを得る。ＧＰＳ処理部２２は、これらの日時データＤｔから１つを任意に選択して撮影日時データＤｔｓとして出力する。また、ＧＰＳ処理部２２は、時計回路を内蔵している（図示略）。そして、ＧＰＳ処理部２２は、時計回路によって示される現在の日時と、各ＧＰＳ衛星31, 32,…からの電波を受信して得た各日時データＤｔの示す日時との差分に基づいて、緯度経度を算出し、これを撮影位置データＤｐｓとして出力する。
【００２６】
次に、撮像部２３は、レンズ、絞り、ＣＣＤ撮像素子等を備えている（図示略）。ＣＣＤ撮像素子はレンズを通して撮像面に結像される光を光電変換して映像信号Ｓｖを生成し、映像信号Ｓｖを制御部２７および記録再生部２５に出力する。
【００２７】
次に、キー入力部２４は、撮影ボタン１ｂ、撮影する映像等を表示部２８に表示するための表示キー、記録した映像を再生するための再生キー等を備える。また、キー入力部２４は、各種キーの操作に応じた操作信号Ｓｓを生成し、制御部２７に出力する。これにより、制御部２７はどのキーが操作されたかを検知することができる。
【００２８】
次に、記録再生部２５は、制御信号ＣＴＬによって制御される。制御信号ＣＴＬは後述する制御部２７で生成される。制御信号ＣＴＬは、記録再生部２５に対して、記録動作または再生動作を行うよう指示する。制御信号ＣＴＬが記録動作を指示するとき、記録再生部

２５は映像信号Ｓｖをアナログ信号からデジタル信号に変換して映像データＤｖを生成する。さらに、記録再生部２５は、記録データＤｒを生成し、これを後述する記録媒体２６に記録する。

【００２９】

図３は、記録データＤｒのフォーマットを示す図である。同図に示すように、記録データＤｒは、映像データＤｖ、撮影位置データＤｐｓ、および撮影日時データＤｔｓから構成される。映像データＤｖと、撮影位置データＤｐｓおよび撮影日時データＤｔｓとの位置関係は、どちらが先であろうと関連づけられていればかまわないが、この例では、映像データＤｖの後に、撮影位置データＤｐｓおよび撮影日時データＤｔｓが付加されている。

【００３０】

制御信号ＣＴＬが再生動作を指示するとき、記録再生部２５は、記録媒体２６に記録した記録データＤｒを再生し、再生した記録データＤｒをインターフェース部２９に出力する。また、記録再生部２５は、再生された記録データＤｒをＤ／Ａ変換して映像信号Ｓｖを生成し、これを表示部２８に出力する。

【００３１】

次に、記録媒体２６は、磁気テープ、ディスク、メモリカード等、デジタルデータを記憶できるものであればいかなるものであってもよいが、この例では、磁気テープを用いるものとする。

【００３２】

次に、制御部２７は、操作信号Ｓｓや制御指令信号Ｓｃに基づいて各構成部分を制御する制御信号ＣＴＬ等を生成する。制御指令信号Ｓｃは再生、早送り、あるいは巻戻しといった動作を指示する。この制御指令信号Ｓｃは、ＰＣ２によって生成されインタフェース部２９を介して制御部２７に供給される。換言すれば、ＰＣ２からビデオ一体型カメラ１をリモートコントロールできるようになっている。

【００３３】

次に、表示部２８は、液晶ディスプレイ等の表示装置である。また、表示部２８は、制御信号ＣＴＬが記録動作を指示する場合には撮像部２３からの映像信号Ｓｖを選択して画像を表示する一方、制御信号ＣＴＬが再生動作を指示する場合には記録再生部２５からの映像信号Ｓｖを選択して画像を表示する。

【００３４】

次に、インターフェース部２９は、外部とのインターフェースとして機能する。このインターフェース部２９によって、記録データＤｒがＰＣ２に対して送信される。

【００３５】

１－１－３：パーソナルコンピュータの構成

次に、ＰＣ２の詳細な構成について説明する。図４は、ＰＣ２の電気的構成の一例を示すブロック図である。同図に示すように、ＰＣ２は、ＣＰＵ３５、ＲＯＭ３６、ＲＡＭ３７、操作部３１、表示部３２、通信部３３、記憶手段３４およびシステムバス３８を備える。

【００３６】

ＣＰＵ３５は、各構成部分とシステムバス３８を介して接続されており、各構成部分を制御する。ＲＯＭ３６には、ブートプログラムが記憶されている。ＲＡＭ３７は、ＣＰＵ３５がプログラムを実行する際の作業領域として機能する。通信部３３は、外部とのインターフェースとして機能する。この通信部３３によって、ビデオ一体型カメラ１から送信される記録データＤｒがＰＣ２に取り込まれる。また、通信部３３は、インターネット４を介してサーバ６と接続され、サーバ６との間でデータ通信を行う。

【００３７】

記憶手段３４は、ハードディスク等から構成される。記憶手段３４の記憶領域は、論理的に階層構造を持つように管理されている。ここでは、階層の一単位をフォルダと呼ぶことにする。各フォルダには、取り込まれた記録データＤｒ、映像検索プログラム等の各種プログラム、映像インデックスファイルＦｉ、マッピングテーブルＭＴ、および映像検索ソ

ァイルＦｓが記憶される。

【００３８】

まず、映像検索プログラムは、記録データＤｒとマッピングテーブルＭＴとに基づいて、映像検索ファイルＦｓを生成するためのプログラムである。この映像検索ファイルＦｓを生成する過程において、映像インデックスファイルＦｉが生成される。

【００３９】

次に、図５は、映像インデックスファイルＦｉの記憶内容の一例を示す説明図である。この図に示すように、映像インデックスファイルＦｉは、複数のレコードｒ１、ｒ２，ｒ３…を含んでおり、各レコードｒ１、ｒ２，ｒ３…は、ディレクトリ、ファイル名、撮影位置、撮影地名、および撮影日時の各データ項目を含んでいる。レコードによって各データ項目は相互に関連付けられている。ここで、ディレクトリは、記録データＤｒの格納場所を示すアドレスである。ファイル名は、個々の記録データＤｒを識別するために自動的に付与する名前である。

【００４０】

また、映像インデックスファイルＦｉの撮影位置の欄には撮影位置データＤｐｓが記憶され、撮影日時の欄には撮影日時データＤｔｓが記憶され、くわえて、撮影地名の欄には後述する撮影地名データＤｎｓが記憶される。

【００４１】

次に、図６は、マッピングテーブルＭＴの記憶内容の一例を示す説明図である。この図に示すようにマッピングテーブルＭＴは、複数のレコードＲ１、Ｒ２、Ｒ３…を含んでおり、各レコードＲ１、Ｒ２、Ｒ３…は、位置データＤｐと地名データＤｎとを含んでいる。位置データＤｐは緯度経度を示す一方、地名データＤｎは市町村名を示す。各レコードＲ１、Ｒ２、Ｒ３…によって地名データＤｎと位置データＤｐが対応付けられることになる。したがって、マッピングテーブルＭＴを参照すれば、位置データＤｐから地名データＤｎを知ることができる。

【００４２】

ところで、ある地名の指し示す領域は広がりを持っている。このため、ある地名データＤｎは複数の位置データＤｐに対応することが多い。図６に示す例では、位置データＤｐ１およびＤｐ２が地名データＤｎ１に対応する一方、位置データＤｐ３がＤｎ２に対応している。

【００４３】

次に、映像検索ファイルＦｓは、映像の検索に用いるものであり、ＨＴＭＬ(hypertext markup language)で記述されている。図７は映像検索ファイルＦｓのファイル構造と映像データＤｖとの関係の一例を示す説明図である。この図に示すように、映像検索ファイルＦｓは、１個の地名インデックス用ＨＴＭＬファイルＨＭｐと、複数の日時インデックス用ＨＴＭＬファイルＨＭｔ１、ＨＭｔ２、…を含んでいる。

【００４４】

地名インデックス用ＨＴＭＬファイルＨＭｐには、各日時インデックス用ＨＴＭＬファイルＨＭｔ１、ＨＭｔ２、…を指し示すリンク定義が書き込まれている。また、各日時インデックス用ＨＴＭＬファイルＨＭｔ１、ＨＭｔ２、…には、各映像データＤｖを指し示すリンク定義が書き込まれている。

【００４５】

１－２：第１実施形態の動作

次に、映像検索システムの動作について説明する。

【００４６】

１－２－１：撮影時

まず、利用者がビデオ一体型カメラ１を用いて、被写体を撮影するときの動作を説明する。利用者はビデオ一体型カメラ１のレンズを被写体の方向に向けて撮影ボタン１ｂを押下すると、このことを示す操作信号Ｓｓが制御部２７に供給される。制御部２７は記録再生部２５に対して記録開始を指示する制御信号ＣＴＬを出力する一方、ＧＰＳ受信機１ａに

対して撮影位置・日時を取得する指令を送る。この後、記録再生部２５は映像データＤｖを記録媒体２６に記録する。

【００４７】

一方、ＧＰＳ受信機１ａはＧＰＳ衛星31、32、…からの送信電波を受信して復調する。そして、ＧＰＳ受信機１ａは、受信した複数の日時データＤｔの示す各日時と時計回路の示す日時とに基づいて撮影位置データＤｐｓおよび撮影日時データＤｔｓを生成し、これを出力する。この撮影位置データＤｐｓおよび撮影日時データＤｔｓは、撮影ボタン１ｂの押下に起因して生成されるものであるから、撮影位置データＤｐｓは撮影場所を指示する一方、撮影日時データＤｔｓは撮影日時を指示するものとなる。この後、記録再生部２５は、撮影位置データＤｐｓおよび撮影日時データＤｔｓを内部レジスタに一旦格納する。そして、撮影終了を示す制御信号ＣＴＬが供給されると、記録再生部２５は、映像データＤｖの記録を終了し、これに続けて撮影位置データＤｐｓおよび撮影日時データＤｔｓを記録媒体２６に記録する。

【００４８】

例えば、利用者が日時ｔ１、緯度経度ｘ１，ｙ１において第１回目の撮影を行い、日時ｔ２、緯度経度ｘ２，ｙ２において第２回目の撮影を行い、さらに、日時ｔ３、緯度経度ｘ３，ｙ３において第３回目の撮影を行ったとする。この場合、記録媒体２６の記録内容は、図８に示すものとなる。この図において、映像データＤｖ１、Ｄｖ２およびＤｖ３は、第１回撮影、第２回撮影、および第３回撮影に各々対応するものである。また、撮影位置データＤｐｓ１、Ｄｐｓ２、およびＤｐｓ３は緯度経度ｘ１，ｙ１、ｘ２，ｙ２、およびｘ３，ｙ３を示す。さらに、撮影日時データＤｔｓ１、Ｄｔｓ２およびＤｔｓ３は日時ｔ１、ｔ２およびｔ３を各々示す。

以下、この記録媒体２６から記録データＤｒ１、Ｄｒ２、およびＤｒ３を再生する場合を一例として説明する。

【００４９】

１　２　２：映像検索ファイルの作成

次に、ビデオ一体型カメラ１をＰＣ２に接続して、映像検索ファイルＦｓを生成する処理について説明する。図９は、映像検索ファイルＦｓの生成処理におけるＣＰＵ３５の動作例を示すフローチャートである。

【００５０】

ユーザが操作部３１を操作して、映像検索プログラムを起動すると、ＣＰＵ３５は映像検索プログラムを実行する。まず、ＣＰＵ３５は、ビデオ一体型カメラ１から記録データＤｒ１、Ｄｒ２、およびＤｒ３を読み込み、読み込んだ記録データＤｒ１、Ｄｒ２、およびＤｒ３を記憶手段３４の異なるフォルダに各々記憶する（ステップＳ１）。この際、ＣＰＵ３５は、各映像データＤｖ１、Ｄｖ２、Ｄｖ３に対してファイル名を予め定められた規則に従って付与する。この例では、各映像データＤｖ１、Ｄｖ２、Ｄｖ３にｆ１、ｆ２、ｆ３といったファイル名を付与するものとする。

【００５１】

次に、ＣＰＵ３５は、映像インデックスファイルＦｉを作成する（ステップＳ２）。図１０は、映像インデックスファイルＦｉを生成する過程を示した説明図である。ＣＰＵ３５は、まず、記録データＤｒ１をフォルダから読み出し、レコードｒ１を生成し、映像インデックスファイルＦｉに書き込む。同様に記録データＤｒ２に基づいてレコードｒ２を生成し映像インデックスファイルＦｉに書き込み、これに続いて、記録データＤｒ３に基づいてレコードｒ３を生成し映像インデックスファイルＦｉに書き込む。

【００５２】

したがって、映像インデックスファイルＦｉの記憶内容は図９に示すように状態Ａ→状態Ｂ→状態Ｃといったように変化する。但し、ステップ２の処理が終了した時点では、映像インデックスファイルＦｉの撮影地名の欄は、空白となっている（状態Ｃ）。

【００５３】

次に、ＣＰＵ３５は、図６に示すステップＳ３に処理を進め、マッピングテーブルＭＴを

参照して地名変換を行う（ステップＳ３）。具体的にいえば、ＣＰＵ３５は、映像インデックスファイルＦｉ（図１０に示す状態Ｃ）のレコードｒ１から撮影位置データＤｐｓ１を読み出し、撮影位置データＤｐｓ１に基づいてマッピングテーブルＭＴを参照する。撮影位置データＤｐｓ１は緯度経度ｘ１ｙ１を示すので、ＣＰＵ３５はマッピングテーブルＭＴから地名データＤｎ１を読み出すことになる（図６参照）。この後、ＣＰＵ３５は、地名データＤｎ１を撮影地名データＤｎｓ１として、レコードｒ１の撮影地名の欄に書き込む。この結果、映像インデックスファイルＦｉの記憶内容は図１１に示す状態Ｄとなる。

【００５４】

次に、ＣＰＵ３５は、この映像インデックスファイルＦｉから撮影位置データＤｐｓ２を読み出して同様の処理を施す。この結果、映像インデックスファイルＦｉの記憶内容は図１１に示す状態Ｅとなる。さらに、ＣＰＵ３５は、状態Ｅの映像インデックスファイルＦｉから撮影位置データＤｐｓ３を読み出して同様の処理を施す。この結果、映像インデックスファイルＦｉの記憶内容は図１０に示す状態Ｆとなる。

【００５５】

次に、ＣＰＵ３５は、映像インデックスファイルＦｉのレコードをソートする（ステップＳ４）。より詳しくいうと、まず、ＣＰＵ３５は、撮影地名をキーにして映像インデックスファイルＦｉのレコードをソートする。これにより、地名のあいうえお順にレコードが並び変わる。次に、ＣＰＵ３５は、同一の地名を有するレコードを日時をキーにしてさらにソートする。これにより、同一の地名を有するレコードが、日時の昇順に、すなわち過去から未来の順に並び変わる。

【００５６】

例えば、地名Ｃ２が「赤坂」であり、地名Ｃ１が「四谷」であるとすれば、地名をキーとするソートによって映像インデックスファイルＦｉの記憶内容は図１１に示す状態Ｇに遷移する。また、日時ｔ１が２０００年１１月１日１０：００であり、日時ｔ２が２０００年１月１日１７：００であり、日時ｔ３が２０００年２月２日９：００であるとすれば、日時をキーとしたソートによって映像インデックスファイルＦｉの記憶内容は図１１に示す状態Ｈに遷移する。以下の説明では、映像インデックスファイルＦｉの記憶内容が最終的に状態Ｈになっているものとする。

【００５７】

次に、ＣＰＵ３５は、地名インデックス用ＨＴＭＬファイルＨＭｐをＲＡＭ３７上に作成し、これを記憶手段３４に記憶する（ステップＳ５）。図１２は、ＣＰＵ３５のステップＳ５における処理を示すフローチャートである。

【００５８】

まず、ＣＰＵ３５は、映像インデックスファイルＦｉの先頭レコードから撮影地名データＤｎｓを抽出する（ステップＳａ１）。この例では、映像インデックスファイルＦｉの先頭レコードはレコードｒ３であるから、撮影地名データＤｎｓ２が抽出されることになる。

【００５９】

次に、ＣＰＵ３５は、予め用意された地名テンプレートファイルに、抽出した撮影地名データＤｎｓを書き込む（ステップＳａ２）。地名テンプレートファイルは、地名インデックス用ＨＴＭＬファイルＨＭｐを生成するために用いる雛形であり、複数の撮影地名データＤｎｓを書き込めるようになっている。

【００６０】

次に、ＣＰＵ３５は、映像インデックスファイルＦｉの次のレコードから撮影地名データＤｎｓを抽出する（ステップＳａ３）。この例では、レコードｒ２から撮影地名データＤｎｓ１が抽出されることになる。

【００６１】

次に、ＣＰＵ３５は、抽出した撮影地名データＤｎｓが既に地名テンプレートファイルに書き込んだ撮影地名データＤｎｓと不一致であるか否かを判定する（ステップＳａ４）。

不一致の場合には、ＣＰＵ３５は、抽出した撮影地名データＤｎｓを地名テンプレートファイルに書き込む（ステップＳａ５）。一方、一致する場合には、後述するステップＳａ６に進む。この例では、地名テンプレートファイルには撮影地名データＤｎｓ２が書き込まれている一方、撮影地名データＤｎｓ１が抽出されるから、ＣＰＵ３５は、撮影地名データＤｎｓ１を地名テンプレートファイルに書き込む。

【００６２】

次に、ＣＰＵ３５は、総てのレコードについて処理を行ったか否かを判定し（ステップＳａ６）、処理が行われていないレコードがある場合には、ステップＳａ３に戻りステップＳａ３からステップＳａ６までの処理を繰り返す。そして、総てのレコードについて処理が終了すると、撮影地名データＤｎｓが書き込まれた地名テンプレートファイルにファイル名を付与して地名インデックス用ＨＴＭＬファイルＨＭｐとして記憶手段３４に記憶する（ステップＳａ７）。

【００６３】

この例では、処理がステップＳａ５からステップＳａ６に進んだ時点では、レコードｒ１について処理が終了していないので、ＣＰＵ３５は、処理をステップＳａ３に戻す。この場合、ＣＰＵ３５は、レコードｒ１から撮影地名データＤｎｓ１を抽出する。しかし、撮影地名データＤｎｓ１は既に地名テンプレートファイルに書き込まれているから、ＣＰＵ３５は、処理をステップＳａ６に進める。この例のレコードは、レコードｒ１、ｒ２、およびｒ３であるから、ＣＰＵ３５は、総てのレコードについて処理が終了したと判定する。この結果、撮影地名データＤｎｓ１およびＤｎｓ２が書き込まれた地名インデックス用ＨＴＭＬファイルＨＭｐが生成される。

【００６４】

次に、ＣＰＵ３５は、ＨＴＭＬファイルＨＭｐに含まれる各撮影地名データＤｎｓに対応して日時インデックス用ＨＴＭＬファイルＨＭｔを各々作成し、ＨＴＭＬファイルＨＭｐに含まれる各撮影地名データＤｎｓと各日時インデックス用ＨＴＭＬファイルＨＭｔをハイパーリンクさせる（ステップＳ６）。本明細書におけるハイパーリンクとは、ＨＴＭＬファイルからＨＴＭＬファイルへ、あるいはＨＴＭＬファイルから映像データＤｖへジャンプするためのリンク定義をジャンプ元のＨＴＭＬファイルに書き込むことをいう。また、リンク定義とはリンク先のアドレスであり、リンク先のファイルやデータが格納されているディレクトリとファイル名とを含んでいる。

【００６５】

図１３は、ＣＰＵ３５のステップＳ６における処理を示すフローチャートである。まず、ＣＰＵ３５は、映像インデックスファイルＦｉの先頭レコードから撮影地名データＤｎｓを抽出する（ステップＳｂ１）。この例では、映像インデックスファイルＦｉの先頭レコードはレコードｒ３であるから、撮影地名データＤｎｓ２が抽出されることになる。

【００６６】

次に、ＣＰＵ３５は、映像インデックスファイルＦｉの各レコードを順にサーチし、ステップＳｂ１で抽出した撮影地名データＤｎｓと同一の撮影地名データＤｎｓを有するレコードを特定し、特定したレコードから撮影日時データＤｔｓを抽出する（ステップＳｂ２）。この例では、撮影地名データＤｎｓ２が含まれるレコードはレコードｒ３のみであるから、撮影日時データＤｔｓ３のみが抽出される。

【００６７】

次に、ＣＰＵ３５は、予め用意された日時テンプレートファイルに、抽出した撮影日時データＤｔｓを抽出した順に書き込む（ステップＳｂ３）。日時テンプレートファイルは、日時インデックス用ＨＴＭＬファイルＨＭｔを生成するために用いる雛形であり、予め複数の撮影日時データＤｔｓを書き込めるようになっている。この例では、撮影日時データＤｔｓ３が日時テンプレートファイルに書き込まれる。

【００６８】

次に、ＣＰＵ３５は、映像インデックスファイルＦｉを参照して、日時テンプレートファイルに書き込んだ撮影日時データＤｔｓに対応する映像データＤｖのリンク定義を日時テ

ンプレートファイルにさらに書き込んで日時インデックス用ＨＴＭＬファイルＨＭｔを生成する（ステップＳｂ４）。映像データＤｖのリンク定義は、ディレクトリとファイル名からなる。この例では、ＣＰＵ３５が撮影日時データＤｔｓ３に対応するリンク定義「ｄ３／ｆ３」を書き込むことにより、最初の日時インデックス用ＨＴＭＬファイルＨＭｔ１が生成される。

【００６９】

次に、ＣＰＵ３５は、生成した日時インデックス用ＨＴＭＬファイルＨＭｔにファイル名を付与して、記憶手段３４の所定ディレクトリに記憶する（ステップＳｂ５）。この例では、日時インデックス用ＨＴＭＬファイルＨＭｔ１にファイル名「ｈｍｔ１」を付与し、これをディレクトリ「ｄｉｒ１」に記憶するものとする。

【００７０】

次に、ＣＰＵ３５は、地名インデックス用ＨＴＭＬファイルＨＭｐに、ステップＳｂ５で生成した日時インデックス用ＨＴＭＬファイルＨＭｔのリンク定義を書き込む（ステップＳｂ６）。この例では、撮影地名データＤｎｓ２に対応してリンク定義「ｄｉｒ１／ｈｍｔ１」が地名インデックス用ＨＴＭＬファイルＨＭｐに書き込まれる。

【００７１】

次に、ＣＰＵ３５は、映像インデックスファイルＦｉをその先頭レコードからサーチする（ステップＳｂ７）。次に、ＣＰＵ３５は、未処理の撮影地名データＤｎｓが検出されたか否かを判定する（ステップＳｂ８）。未処理の撮影地名データＤｎｓが検出された場合には、ＣＰＵ３５は、処理をステップＳｂ２に進め、ステップＳｂ２からステップＳｂ８までの処理を繰り返す。そして、総ての撮影地名データＤｎｓについて日時インデックス用ＨＴＭＬファイルＨＭｔの生成処理が終了すると、ＣＰＵ３５は、ステップＳ６の処理を終了する。

【００７２】

この例では、処理がステップＳｂ８に進んだ時点で、撮影地名データＤｎｓ２については未処理であるので、別の日時インデックス用ＨＴＭＬファイルＨＭｔ２が生成されることになる。日時インデックス用ＨＴＭＬファイルＨＭｔ２には、撮影日時データＤｔｓ２およびＤｔｓ１が書き込まれている。さらに日時インデックス用ＨＴＭＬファイルＨＭｔ２には、映像データＤｖ２へのリンク定義ｄ２／ｆ２が撮影日時データＤｔｓ２に対応して、映像データＤｖ１へのリンク定義ｄ１／ｆ１が撮影日時データＤｔｓ１に対応して各々書き込まれている。

【００７３】

このようにして、ＣＰＵ３５は、ステップＳ７までの処理で、地名インデックス用ＨＴＭＬファイルＨＭｐと、日時インデックス用ＨＴＭＬファイルＨＭｔ１およびＨＭｔ２からなる映像検索ファイルＦｓを生成することができる。

【００７４】

次に、ＣＰＵ３５は、処理を図９に示すステップＳ７に進め、映像検索ファイルＦｓと各映像データＤｖとをインターネット４を介してサーバ６にアップロードする。

【００７５】

１－２－３：ホームページの閲覧

次に、ＰＣ５や携帯電話機１０１、１０２、…によるホームページの閲覧について説明する。上述したようにサーバ６には、映像検索ファイルＦｓと各映像データＤｖとが記憶されている。ここでは、携帯電話機１０１がサーバ６にアクセスする場合を一例として説明する。

【００７６】

まず、携帯電話機１０１からサーバ６にアクセスすると、携帯電話機１０１の表示部には図１４に示すメインメニュー画面が表示される。利用者がメインメニュー画面において、携帯電話機１０１の操作ボタンを操作して、「東京の風景」を選択すると、地名インデックス用ＨＴＭＬファイルＨＭｐがサーバ６から読み出され、当該ファイルが携帯電話機１０１に配信される。

【００７７】
この場合、携帯電話機１０１の表示部には、図１５に示す地名選択画面が表示される。上述したように地名インデックス用ＨＴＭＬファイルＨＭｐには、撮影地名データＤｎｓ２およびＤｎｓ１が書き込まれており、撮影地名データＤｎｓ２は「赤坂」、撮影地名データＤｎｓ１は「四谷」を指示するものであるから、地名選択画面の選択ボタンＸ１には「赤坂」と表示される一方、選択ボタンＸ２には「四谷」が表示される。これにより、携帯電話機１０１の利用者は、地名に基づく選択が促される。
【００７８】
次に、携帯電話機１０１の利用者が、その操作部を操作して選択ボタンＸ２をクリックしたとすると、サーバ６から日時インデックス用ＨＴＭＬファイルＨＭｔ２が読み出され、当該ファイルが携帯電話機１０１に配信される。この場合、携帯電話機１０１の表示部には、図１６に示す日時選択画面が表示される。上述したように日時インデックス用ＨＴＭＬファイルＨＭｔ２には、撮影日時データＤｔｓ２およびＤｔｓ１が書き込まれており、撮影日時データＤｔｓ２は「２０００年１月１日１７：００」を指示し、撮影日時データＤｔｓ１は「２０００年１１月１日１０：００」を指示するものであるから、日時選択画面の選択ボタンＹ１には「２０００年１月１日１７：００」と表示される一方、選択ボタンＹ２には「２０００年１１月１日１０：００」が表示される。これにより、携帯電話機１０１の利用者は、日時に基づく選択が促される。
【００７９】
次に、携帯電話機１０１の利用者が、その操作部を操作して選択ボタンＹ１をクリックしたとすると、サーバ６から映像データＤｖ２が読み出され、当該データが携帯電話機１０１に配信される。この場合、携帯電話機１０１の表示部には、２０００年１月１日１７：００に赤坂で撮影した映像が表示されることになる。
【００８０】
ここでは、携帯電話機１０１、１０２、…からの映像検索を一例として説明したが、ＰＣ５やＰＣ２からサーバ６にアクセスする場合にも同様に映像検索を行うことができる。さらに、ＰＣ２はその記憶手段３４に映像検索ファイルＦｓと各映像データＤｖを記憶しているから、サーバ６にアクセスすることなく、映像検索を行うことが可能である。
【００８１】
このように本実施形態においては、各映像データＤｖを、一つの地名インデックス用ＨＴＭＬファイルＨＭｐと一または複数の日時インデックス用ＨＴＭＬファイルＨＭｔを用いて、各映像データＤｖを整理・分類したので、所望の映像データＤｖを容易に検索して呼び出すことができる。すなわち、一または複数の地名インデックスと、ある地名インデックスに対応する一または複数の日時インデックスを併用することにより、映像データＤｖの検索を階層的に行うことが可能となる。
【００８２】
さらに、本実施形態によれば、利用者が映像検索プログラムを起動するだけで、ＰＣ２は映像検索ファイルＦｓを自動的に作成し映像検索ファイルＦｓと各映像データＤｖを自動的にサーバ６にアップロードするから、コンピュータの知識に乏しい者でも、映像検索ツールを作成することができ、くわえて、簡単にホームページを作成することが可能となる。
【００８３】
１－３：第１実施形態の変形例
上述した第１実施形態においては、さらに以下の変形が可能である。
本実施形態においては、地名インデックスから所望の地名の表示部分をクリックすると、当該地名に対応する日時インデックスが表示されるが、所望の地名の表示部分をクリックすると対応する日時が表示されたドロップダウンリストが開き、その中から所望の日時の表示部分を操作部３１によって選択するようにしてもよい。この場合、例えば、地名インデックスにおいて、地名ｃ１の表示部分が選択されると、日時ｔ１、ｔ２が表示されたドロップダウンリストが開き、その中から日時ｔ１が選択されると日時データＤｔ１がＣＧ

１（common gateway interface）へ受け渡されるように地名インデックス用ＨＴＭＬファイルＨＭｐに記述しておく。ＣＧＩが、映像インデックスファイルＦｉを参照し、撮影日時データＤｔｓ１に対応したｄ１／ｆ１に格納された映像データＤｖ１を呼び出して表示させるようにする。

【００８４】

２．第２実施形態

次に、本発明の第２実施形態について説明する。上述した第１実施形態の映像検索システムでは、ＰＣ２において映像検索ファイルＦｓの一部として地名インデックス用ＨＴＭＬファイルＨＭｐを生成した。この地名インデックス用ＨＴＭＬファイルＨＭｐは、図に示すように撮影地名をテキストで表示するように記述されていた。第２実施形態の映像検索システムは、地名インデックス用ＨＴＭＬファイルＨＭｐの代わりに地図上で撮影地点を表示する撮影地点インデックス用ＨＴＭＬファイルＨＭｐ’を用いるものである。

【００８５】

２－１：第２実施形態の構成

第２実施形態の映像検索システムは、映像検索プログラムの内容、およびＰＣ２の記憶手段３４にマッピングテーブルＭＴの代わりに予め地図ファイルＦｃが記憶されている点、および映像インデックスファイルＦｉの代わりに映像インデックスファイルＦｉ’を用いる点を除いて、図１に示す第１実施形態の映像検索システムと同様に構成されている。

【００８６】

地図ファイルＦｃは、地図を表示するための画像データであり、この例ではビットマップ形式のデータとなっている。

図１７は映像インデックスファイルＦｉ’の記憶内容を示す説明図である。この映像インデックスファイルＦｉ’は複数のレコードを含んでいる。各レコードは、ディレクトリ、ファイル名、撮影位置、撮影座標、および撮影日時の各データ項目を含んでいる。ここで、撮影座標の欄には、後述する座標データＤｐｓ’または、中心座標データＤｃｓが書き込まれる。すなわち、第２実施形態の映像インデックスファイルＦｉ’の記憶内容は、撮影地名の欄の代わりに撮影座標の欄が設けられている点を除いて、図に示す第１実施形態の映像インデックスファイルＦｉの記憶内容と同様である。

【００８７】

２－２：第２実施形態の動作

この映像検索システムにおいて撮影時の動作は第１実施形態と同様であるので、ここでは説明を省略し、映像検索ファイルＦｓを生成とホームページの閲覧について、以下、説明する。

【００８８】

２－２－１：映像検索ファイルＦｓの生成

ビデオ一体型カメラ１をＰＣ２に接続して、映像検索ファイルＦｓを生成する処理について説明する。図１８は、映像検索ファイルＦｓの生成処理におけるＣＰＵ３５の動作例を示すフローチャートである。なお、この例では、第１実施形態と同様に、図８に示す記録内容の記録媒体２６をビデオ一体型カメラ１で再生して、記録データＤｒ１、Ｄｒ２、およびＤｒ３をビデオ一体型カメラ１からＰＣ２へ読み込むものとする。

【００８９】

利用者が操作部３１を操作して、映像検索プログラムを起動すると、ＣＰＵ３５は映像検索プログラムを実行する。ステップＳ１１およびステップＳ１２の処理は、第１実施形態で説明したステップＳ１およびステップＳ２（図９参照）と同様であるので、ここでは説明を省略する。ステップＳ１２が終了した時点で映像インデックスファイルＦｉ’の記憶内容は、図１９に示す状態Ａとなっている。

【００９０】

次に、ＣＰＵ３５は、映像インデックスファイルＦｉ’の総てのレコードから撮影位置データＤｐｓを読み出す（ステップＳ１３）。この例では、レコードｒ１から撮影位置データＤｐｓ１、レコードｒ２から撮影位置データＤｐｓ２、さらにレコードｒ３から撮影位

置データＤｐｓ３が読み出されることになる。
【００９１】
次に、ＣＰＵ３５は、読み出した各撮影位置データＤｐｓを各座標データＤｐｓ'に変換し、これらを映像インデックスファイルＦｉ'に書き込む（ステップＳ１４）。座標データＤｐｓ'は地図ファイルＦｃによって表示される地図上の座標を示すものである。撮影位置データＤｐｓは緯度経度を数値で示すものであるから、予め定められた演算式に撮影位置データＤｐｓを代入することによって、座標データＤｐｓ'を算出することができる。ＣＰＵ３５は、ステップＳ１４において、この演算処理を実行する。
【００９２】
この例では、撮影位置データＤｐｓ１、Ｄｐｓ２、およびＤｐｓ３が、座標データＤｐｓ１'、Ｄｐｓ２'、およびＤｐｓ３'に変換されるものとする。また、各座標データＤｐｓ１'、Ｄｐｓ２'、およびＤｐｓ３'は、座標(x1',y1')、(x2',y2')、および(x3',y3')を各々指示するものとする。この場合、ステップＳ１４が終了した時点で映像インデックスファイルＦｉ'の記憶内容は図１９に示す状態Ｂとなる。
【００９３】
次に、ＣＰＵ３５は、地図を縦１００ｍ・横１００ｍの各エリアに分割したとき、各座標データＤｐｓ'の示す各座標が同一エリアに含まれるか否かを判定する（ステップＳ１５）。具体的には、第１に、ＣＰＵ３５は、各座標データＤｐｓ'の示すＸ座標、Ｙ座標を予め定められた基準値で除算して商を各々算出する。基準値は地図上の１００ｍに相当する値である。
【００９４】
第２に、ＣＰＵ３５は、Ｘ座標の商とＹ座標の商との組からなるエリアデータＤａｓを生成し、各エリアデータＤａｓを各座標データＤｐｓ'に対応付ける。エリアデータＤａｓによって、対応する座標データＤｐｓ'がどのエリアに属するかが判る。例えば、あるエリアデータＤａｓが、Ｘ座標の商＝０、Ｙ座標の商＝２を示しているならば、対応する座標データＤｐｓ'の指示する座標は、地図上で横１番目、縦３番目のエリアに含まれることになる。
第３に、ＣＰＵ３５は、対応するエリアデータＤａｓが相互に一致する座標データＤｐｓ'があるか否かを判定する。
【００９５】
次に、ＣＰＵ３５は、同一エリアに属する各座標データＤｐｓ'に基づいて、それらの中心座標を示す中心座標データＤｃｓを算出する。この例においては、座標データＤｐｓ１'およびＤｐｓ２'が同一エリアに属するものとする。この場合、中心座標データＤｃｓは、Ｘ＝(x1'+x2')/2、Ｙ＝(y1'+y2')/2を指示する。
【００９６】
次に、ＣＰＵ３５は、映像インデックスファイルＦｉ'に書き込まれている各座標データＤｐｓ'のうち、中心座標データＤｃｓに対応するものを中心座標データＤｃｓに置換する（ステップＳ１６）。この例では、上述したステップＳ１６において、座標データＤｐｓ１'およびＤｐｓ２'について中心座標データＤｃｓを生成したので、ステップＳ１６が終了した時点で映像インデックスファイルＦｉ'の記憶内容は図１９に示す状態Ｃとなる。
【００９７】
次に、ＣＰＵ３５は、地図ファイルＦｃ、映像インデックスファイルＦｉ'およびアイコンデータＤｉに基づいて、地図に重ねてアイコンを表示させる撮影地点インデックス用ＨＴＭＬファイルＨＭｐ'を生成する（ステップＳ１７）。具体的には、ＣＰＵ３５は、映像インデックスファイルＦｉ'の撮影地点の欄に書き込まれている座標データＤｐｓ'および中心座標データＤｃｓの指示する各座標にアイコンデータＤｉを各々関連づける。アイコンデータＤｉは具象化された図形を表示させるための画像データであって、ビットマップ形式で記述されている。この例では、映像インデックスファイルＦｉ'に１個の中心座標データＤｃｓと１個の座標データＤｐｓ３'が書き込まれているので、２個のアイコン

を地図上に表示させることになる。

【００９８】

次に、ＣＰＵ３５は、各アイコンデータＤｉに対応する日時インデックス用ＨＴＭＬファイルＨＭｔを生成し、撮影地点インデックス用ＨＴＭＬファイルＨＭｐ’にリンク定義を書き込む（ステップＳ１８）。日時インデックス用ＨＴＭＬファイルＨＭｔの内容は、リンク先がアイコンデータＤｉであるか撮影地名データＤｎｓであるかの相違を除いて、第１実施形態と同様であるので、ここでは説明を省略する。この例では、第１実施形態と同様に日時インデックス用ＨＴＭＬファイルＨＭｔ１およびＨＭｔ２が生成されることになる。こうして、撮影地点インデックス用ＨＴＭＬファイルＨＭｐ’と日時インデックス用ＨＴＭＬファイルＨＭｔ１およびＨＭｔ２とを備えた映像検索ファイルＦｓが生成される。

【００９９】

次に、ＣＰＵ３５は、映像検索ファイルＦｓと各映像データＤｖとをインターネット４を介してサーバ６にアップロードする（ステップＳ１９）。

【０１００】

２－２－２：ホームページの閲覧

次に、ＰＣ５や携帯電話機１０１、１０２、…によるホームページの閲覧について説明する。ここでは、第１実施形態と同様に携帯電話機１０１がサーバ６にアクセスする場合を一例として説明する。

【０１０１】

まず、携帯電話機１０１からサーバ６にアクセスすると、携帯電話機１０１の表示部に図１４に示すメインメニュー画面が表示される。次に、利用者が携帯電話機１０１の操作ボタンを操作して、「東京の風景」を選択すると、撮影地点インデックス用ＨＴＭＬファイルＨＭｐ’がサーバ６から読み出され、当該ファイルが携帯電話機１０１に配信される。

【０１０２】

この場合、携帯電話機１０１の表示部には、図２０に示す撮影地点選択画面が表示される。この撮影地点選択画面には、地図に重ねて撮影地点を示すアイコンＡ１およびＡ２が表示されている。これにより、携帯電話機１０１の利用者は、地図上のアイコンに基づく選択が促される。なお、この例では、アイコンＡ１およびＡ２が日時インデックス用ＨＴＭＬファイルＨＭｔ１およびＨＭｔ２に各々対応しているものとする。

【０１０３】

次に、携帯電話機１０１の利用者が、その操作部を操作してアイコンＡ２クリックしたとすると、サーバ６から日時インデックス用ＨＴＭＬファイルＨＭｔ２が読み出され、当該ファイルが携帯電話機１０１に配信される。この場合、携帯電話機１０１の表示部には、図１６に示す日時選択画面が表示される。これにより、携帯電話機１０１の利用者は、日時に基づく選択が促される。

【０１０４】

次に、携帯電話機１０１の利用者が、その操作部を操作して選択ボタンＹ２をクリックしたとすると、サーバ６から映像データＤｖ２が読み出され、当該データが携帯電話機１０１に配信される。この場合、携帯電話機１０１の表示部には、対応する映像が表示されることになる。

【０１０５】

このように本実施形態においては、各映像データＤｖを、一つの撮影地点インデックス用ＨＴＭＬファイルＨＭｐ’と一または複数の日時インデックス用ＨＴＭＬファイルＨＭｔを用いて、各映像データＤｖを整理・分類したので、所望の映像データＤｖを容易に検索して呼び出すことができる。

【０１０６】

また、利用者が、地図上に表示されているアイコンの内、所望のものをクリックすると、その位置で撮影がされた日時からなる日時インデックスがさらに表示され、その中から所望の日時をクリックすると、当該位置で当該日時に撮影された映像を閲覧することができ

る。したがって、例えば、観光案内所において、地図が表示されているホームページを閲覧する場合、旅行者が各観光名所に表示されたアイコンの内、所望のものをクリックすると、日時インデックスがさらに表示され、その中から閲覧時の季節に近い日時をクリックすると、当該観光名所の当該季節の紹介映像が閲覧できるといったことも可能である。

【０１０７】

くわえて、本実施形態によれば、所定のエリア内に複数の撮影地点がある場合にこれらを統合して一つのアイコンを表示するようにしたので、地図上にアイコンが乱立して地図が見にくくなるといったことがなく、利用者が映像を容易に検索し易い環境を提供することができる。

【０１０８】

２－３：第２実施形態の変形例

上述した第２実施形態においては、地図上にアイコンを表示させるが、地図をメッシュ状に区切り、各エリアを該当するファイルに対応付けておき、あるエリアがクリックされると、該当するファイルへジャンプさせるようにしてもよい。

【０１０９】

３．発明のその他の態様

なお、上述した各実施形態においては、撮影ボタン１ｂが押下される時に映像データＤｖに対する撮影位置データＤｐｓおよび撮影日時データＤｔｓの記録を行うが、撮影ボタン１ｂが押しつづけられている場合、所定の時間間隔で撮影位置データＤｐｓおよび撮影日時データＤｔｓの記録を自動的に行うようにしてもよい。このようにすることで、例えば、交通機関で移動しながら撮影を継続する場合等に、移動経路上の各ポイントに該当する映像をハイパーリンクさせることができる。

【０１１０】

また、上述した各実施形態においては、本発明をデジタル方式のビデオ一体型カメラが扱う動画像データに対して適用したが、デジタルカメラが扱う静止画データに対して適用するようにしてもよい。

【０１１１】

また、上述した各実施形態においては、撮影位置データＤｐｓおよび撮影日時データＤｔｓを映像データＤｖの後に付加して記録するが、電子すかしの技法等で映像データＤｖに対して埋め込んでもよい。要するに、映像データＤｖと撮影位置データＤｐｓおよび撮影日時データＤｔｓとを関連付けて記録すればよい。

【０１１２】

また、上述した各実施形態においては、ビデオ一体型カメラ１とＰＣ２とが有線で接続されているが、両者間に無線リンクを形成するようにしてもよい。あるいは、記録媒体２６のみをビデオ一体型カメラ１から取り外して、ＰＣ２へ装填させるようにしてもよい。

【０１１３】

また、上述した各実施形態においては、サーバ６に対するアップロードは自動的に行われるが、サーバ６に格納されたホームページデータを更新するか否かを利用者に選択させるようにしてもよい。

【０１１４】

また、上述した各実施形態においては、ビデオ一体型カメラ１にＧＰＳ機能を搭載しているが、ビデオ一体型カメラ１もしくはデジタルカメラの機能とＧＰＳ機能とを搭載した携帯電話機、ＰＨＳ（登録商標）、ＰＤＡ(personal digital assistants)、もしくはモバイルコンピュータ等の移動通信端末をビデオ一体型カメラ１の代わりに用いるようにしてもよい。あるいは、携帯電話機やＰＨＳは、ビデオ一体型カメラ１もしくはデジタルカメラの機能のみを搭載し、位置は、無線基地局91、92、・・・から受信した基地局１Ｄによって把握するようにしてもよい。

【０１１５】

また、上述した各実施形態においては、映像データＤｖとともに記録するものは撮影位置データＤｐｓおよび撮影日時データＤｔｓであるが、さらに、被写体の方位すなわち撮影

方向を示すデータを含ませるようにしてもよい。この場合、ビデオ一体型カメラ１にさらに方位センサを具備させ、レンズを被写体に向けることにより、被写体の方位を測定する。さらに、該方位センサが測定した方位を示すデータを取得し、撮影位置データＤｐｓおよび撮影日時データＤｔｓと併せて記録編集する。このようにすれば、利用者は、いつ、どの地点から、どちらの方向を撮影した映像かという観点で、映像を検索することができる。

【０１１６】

さらに、距離センサをレンズの近傍にレンズと同一の方向を向く状態で具備させ、レンズを通してみた被写体までの距離を測定するようにしてもよい。そして、距離センサが測定した距離と、方位センサが測定した方位によって、ビデオ一体型カメラ１から被写体までの緯度方向の距離と経度方向の距離とを測定し、これらにビデオ一体型カメラ１の緯度経度を加算することにより、被写体の位置を測定し、これを示すデータを撮影位置データＤｐｓおよび撮影日時データＤｔｓと併せて記録編集する。このようにすれば、利用者は、いつ、どの地点を撮影した映像かという観点で、映像を検索することができる。

【０１１７】

また、上述した各実施形態においては、映像データＤｖを撮影位置データＤｐｓおよび撮影日時データＤｔｓにハイパーリンクさせているが、これを撮影位置データＤｐｓのみにハイパーリンクさせたり、撮影日時データＤｔｓのみにハイパーリンクさせるようにしてもよい。

【０１１８】

また、上述した各実施形態においては、撮影日時データＤｔｓをＧＰＳ衛星３１、３２、…が生成する日時データＤｔに基づいて得ているが、ＧＰＳ受信機１ａに内蔵する時計回路から取得するようにしてもよい。

【０１１９】

【発明の効果】

以上のように本発明の映像検索ファイル作成方法によれば、地名と撮影日時の階層構造によって映像を容易に検索できる映像検索ファイルを人手によらず自動的に作成することができる。また、そのような映像検索ファイルをホームページデータの一部として自動的にサーバにアップロードできる。さらに、本発明の映像検索方法によれば、映像を地名と撮影日時の階層構造によって簡単検索したり、地図上のアイコンを選択し、さらに撮影日時を選択するだけで所望の映像を表示させることができる。

【図面の簡単な説明】

【図１】　本発明の第１実施形態に係る映像検索システムの全体構成を示すブロック図である。

【図２】　ビデオ一体型カメラ１の電気的構成の一例を示すブロック図である。

【図３】　記録データＤｒのデータフォーマットの一例を示す説明図である。

【図４】　ＰＣ２の電気的構成の一例を示すブロック図である。

【図５】　映像インデックスファイルＦｉの記憶内容の一例を示す説明図である。

【図６】　マッピングテーブルＭＴの記憶内容の一例を示す説明図である。

【図７】　映像検索ファイルＦｓのファイル構造と映像データＤｖの関係を示す説明図である。

【図８】　記録媒体２６の記録内容の一例を示す説明図である。

【図９】　映像検索ファイルＦｓの生成処理におけるＣＰＵ３５の動作例を示すフローチャートである。

【図１０】　ＣＰＵ３５が映像インデックスファイルＦｉを生成する過程を示した説明図である。

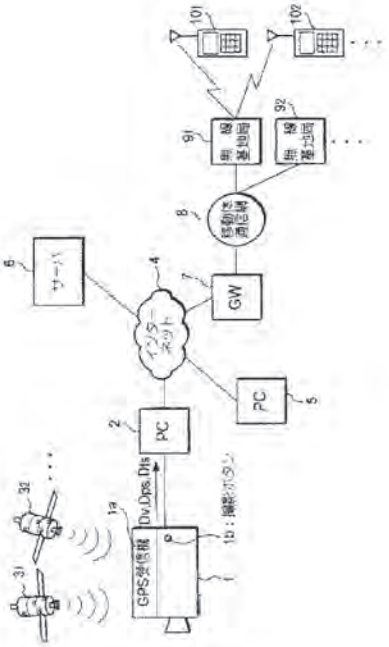
【図１１】　ＣＰＵ３５が映像インデックスファイルＦｉを生成する過程を示した説明図である。

【図１２】　ＣＰＵ３５のステップＳ５における処理を示すフローチャートである。

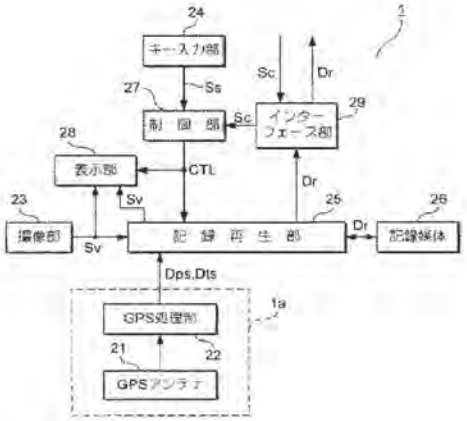
【図１３】　ＣＰＵ３５のステップＳ６における処理を示すフローチャートである。

【図１４】　ホームページのメインメニュー画面の一例を示す図である。
【図１５】　ホームページの地名選択画面の一例を示す図である。
【図１６】　ホームページの撮影日時選択画面の一例を示す図である。
【図１７】　第２実施形態に用いる映像インデックスファイルＦｉ'の記憶内容を示す説明図である。
【図１８】　同実施形態における映像検索ファイルＦｓの生成処理におけるＣＰＵ３５の動作例を示すフローチャートである。
【図１９】　ＣＰＵ３５が映像インデックスファイルＦｉ'を生成する過程を示した説明図である。
【図２０】　ホームページの撮影地点選択画面の一例を示す図である。
【符号の説明】
１…ビデオ一体型カメラ、１ａ…ＧＰＳ受信機、２…ＰＣ、３１、３２…ＧＰＳ衛星、４…インターネット、５…ＰＣ、６…サーバ、７…ＧＷ、８…移動体通信網、９１、９２…無線基地局、１０１、１０２…携帯電話機、２１…ＧＰＳアンテナ、２２…ＧＰＳ処理部、３５…ＣＰＵ、Ｄｖ…映像データ、Ｄｐ…位置データ、Ｄｔｓ…撮影日時データ、Ｄｎｓ…撮影地名データ、Ｄｒ…記録データ、Ｓｖ…映像信号、Ｆｉ，Ｆｉ'…映像インデックスファイル、ＨＭｐ…地名インデックス用ＨＴＭＬファイル、ＨＭｔ…日時インデックス用ＨＴＭＬファイル、ＨＭｐ'…撮影地点インデックス用ＨＴＭＬファイル。

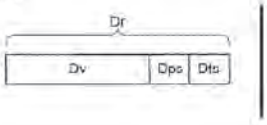
【図1】



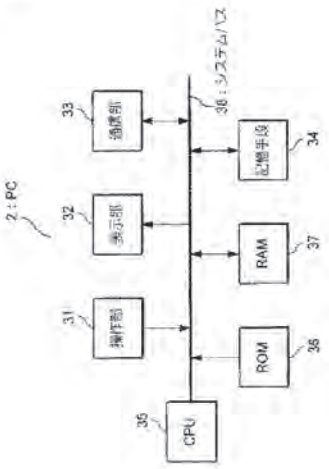
【図2】



【図3】



【図4】



【図5】

Fi

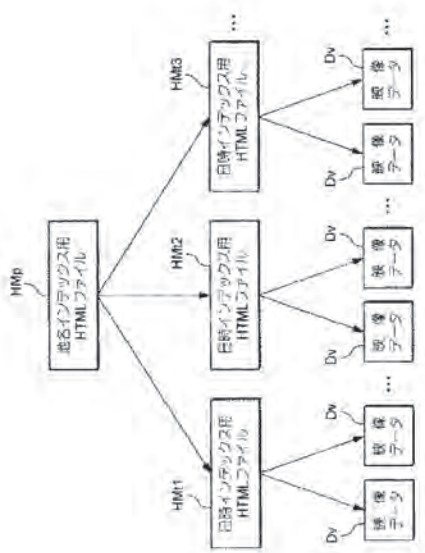
ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d1	f1	Dps1	Dns1	Dts1	r1
d2	f2	Dps2	Dns1	Dts2	r2
d3	f3	Dps3	Dns2	Dts3	r3
⋮	⋮	⋮	⋮	⋮	⋮

【図6】

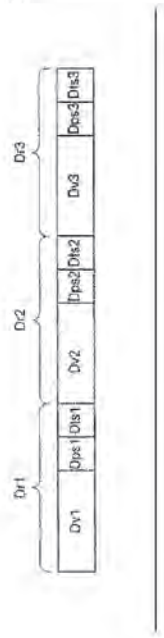
MT

位置	地名	
Dp1(x1,y1)	Dn1(c1)	R1
Dp2(x2,y2)	Dn1(c1)	R2
Dp3(x3,y3)	Dn2(c2)	R3
⋮	⋮	⋮

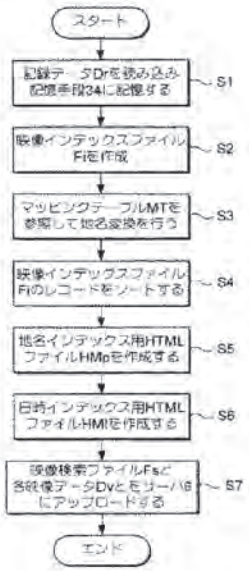
【図7】



【図8】



【図9】



【図10】

状態A

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d1	f1	Dps1(x1,y1)		Dts1(t1)	r1

状態B

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d1	f1	Dps1(x1,y1)		Dts1(t1)	r1
d2	f2	Dps2(x2,y2)		Dts2(t2)	r2

状態C

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d1	f1	Dps1(x1,y1)		Dts1(t1)	r1
d2	f2	Dps2(x2,y2)		Dts2(t2)	r2
d3	f3	Dps3(x3,y3)		Dts3(t3)	r3

【図11】

状態D

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d1	f1	Dps1(x1,y1)	Dns1(C1)	Dts1(t1)	r1
d2	f2	Dps2(x2,y2)		Dts2(t2)	r2
d3	f3	Dps3(x3,y3)		Dts3(t3)	r3

状態E

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d1	f1	Dps1(x1,y1)	Dns1(C1)	Dts1(t1)	r1
d2	f2	Dps2(x2,y2)	Dns1(C1)	Dts2(t2)	r2
d3	f3	Dps3(x3,y3)		Dts3(t3)	r3

状態F

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d1	f1	Dps1(x1,y1)	Dns1(C1)	Dts1(t1)	r1
d2	f2	Dps2(x2,y2)	Dns1(C1)	Dts2(t2)	r2
d3	f3	Dps3(x3,y3)	Dns2(C2)	Dts3(t3)	r3

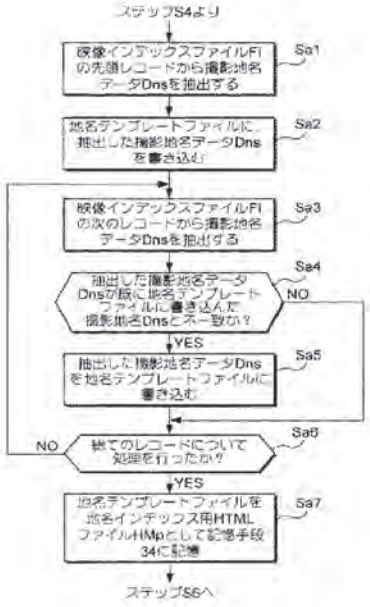
状態G

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d3	f3	Dps3(x3,y3)	Dns2(C2)	Dts3(t3)	r3
d1	f1	Dps1(x1,y1)	Dns1(C1)	Dts1(t1)	r1
d2	f2	Dps2(x2,y2)	Dns1(C1)	Dts2(t2)	r2

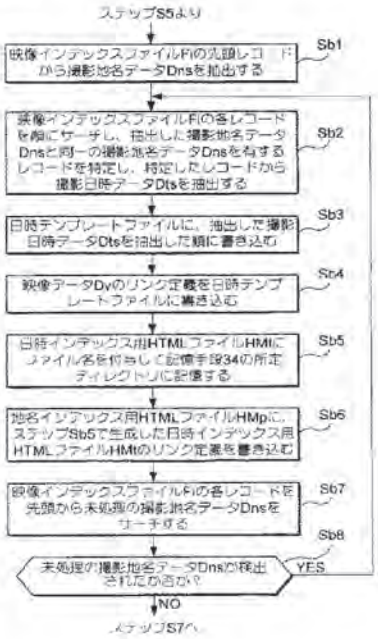
状態H

ディレクトリ	ファイル名	撮影位置	撮影地名	撮影日時	
d3	f3	Dps3(x3,y3)	Dns2(C2)	Dts3(t3)	r3
d2	f2	Dps2(x2,y2)	Dns1(C1)	Dts2(t2)	r2
d1	f1	Dps1(x1,y1)	Dns1(C1)	Dts1(t1)	r1

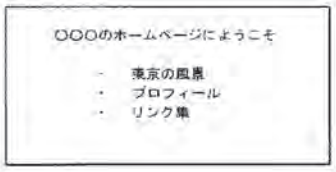
【図12】



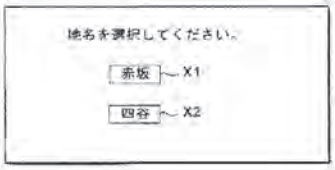
【図13】



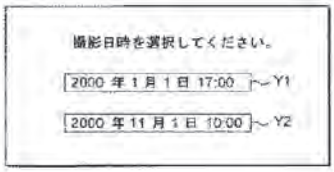
【図14】



【図15】



【図16】



【図17】

Fi

ディレクトリ	ファイル名	撮影位置	撮影座標	撮影日時	
d1	f1	Dps1	Dns1'／Dcs	Dts1	r1
d2	f2	Dps2	Dns2'／Dcs	Dts2	r2
d3	f3	Dps3	Dns3'／Dcs	Dts3	r3
⋮	⋮	⋮	⋮	⋮	⋮

【図18】



【図19】

状態A

ディレクトリ	ファイル名	撮影位置	撮影座標	撮影日時
d1	f1	Dps1(x1,y1)		Dts1(t1)
d2	f2	Dps2(x2,y2)		Dts2(t2)
d3	f3	Dps3(x3,y3)		Dts3(t3)

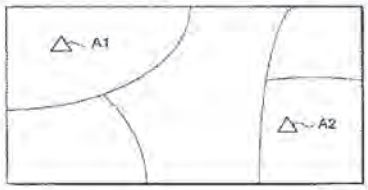
状態B

ディレクトリ	ファイル名	撮影位置	撮影座標	撮影日時
d1	f1	Dps1(x1,y1)	Dps1'(x1',y1')	Dts1(t1)
d2	f2	Dps2(x2,y2)	Dps2'(x2',y2')	Dts2(t2)
d3	f3	Dps3(x3,y3)	Dps3'(x3',y3')	Dts3(t3)

状態C

ディレクトリ	ファイル名	撮影位置	撮影座標	撮影日時
d1	f1	Dps1(x1,y1)	Dcs	Dts1(t1)
d2	f2	Dps2(x2,y2)	Dcs	Dts2(t2)
d3	f3	Dps3(x3,y3)	Dps3'(x3',y3')	Dts3(t3)

【図20】



（２４）映像検索ファイル作成方法およびホームページ更新方法

(51)Int.Cl.　　F I
　　Ｇ０６Ｆ　17/30　　２３０Ｚ
　　Ｇ０６Ｆ　17/30　　３２０Ａ
　　Ｇ０６Ｆ　17/30　　３８０Ｆ

審査官　加藤　恵一

(56)参考文献　特開平１１－０２７６０９（ＪＰ，Ａ）
　　特開平０８　２６３６２２（ＪＰ，Ａ）
　　特開平０９－３２２１０９（ＪＰ，Ａ）

(58)調査した分野(Int.Cl.，ＤＢ名)
　　H04N　5/76-5/956
　　G06F　12/00,17/30

Electronic Acknowledgement Receipt	
EFS ID:	22097300
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/James Lyons
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CONS
Receipt Date:	17-APR-2015
Filing Date:	07-JUL-2014
Time Stamp:	15:56:16
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	Information Disclosure Statement (IDS) Form (SB08)	1018-2CONS_IDS.pdf	69183	no	6
Warnings:					
Information:					

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2	Non Patent Literature	1018-2CON5_REF1N.pdf	21106532	no	141
Warnings:					
Information:					
3	Foreign Reference	1018-2CON5_REF1F.pdf	576200	no	27
Warnings:					
Information:					
4	Foreign Reference	1018-2CON5_REF2F.pdf	1357337	no	25
Warnings:					
Information:					
		Total Files Size (in bytes):	23109252		

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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.

PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	14324698
Filing Date	2014-07-07
First Named Inventor	David Walker Harper
Art Unit	2172
Examiner Name	Boris Pesin
Attorney Docket Number	1018-2 CON5

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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U.S.PATENT APPLICATION PUBLICATIONS

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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FOREIGN PATENT DOCUMENTS

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

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NON-PATENT LITERATURE DOCUMENTS

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris Pesin
	Attorney Docket Number	1018-2 CON5

	1	Brief of Appellee Facebook, Inc., filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, May 14, 2015, 54 pages.	☐
	2	Reply Brief for Appellant Wireless Ink Corporation, filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, May 29, 2015, 35 pages.	☐
	3	Audio Recording of the Oral Argument in Wireless Ink Corporation v. Facebook, Inc., No. 2015-1299, before the United States Court of Appeals for the Federal Circuit, October 7, 2015, available at: http://www.cafc.uscourts.gov/oral-argument-recordings/search/audio.html?title=&field_case_number_value=15-1299&field_date_value2%5Bvalue%5D%5Bdate%5D=2015-10-07.	☐
	4	Decision of the United States Court of Appeals for the Federal Circuit in Wireless Ink Corporation v. Facebook, Inc., No. 2015-1299, October 9, 2015, 2 pages.	☐

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Examiner Signature		Date Considered	

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris Pesin
	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2015-10-19
Name/Print	Joseph B. Ryan	Registration Number	37922

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.**

Electronic Acknowledgement Receipt	
EFS ID:	23819139
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
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Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CONS
Receipt Date:	19-OCT-2015
Filing Date:	07-JUL-2014
Time Stamp:	12:44:11
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) Form (SB08)	1018-2CONS_IDS.pdf	62120	no	3
Warnings:					
Information:					

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2	Non Patent Literature	1018-2CON5_REF4N.PDF	76413	no	2
Warnings:					
Information:					
3	Non Patent Literature	1018-2CON5_REF1N.pdf	629612	no	54
Warnings:					
Information:					
4	Non Patent Literature	1018-2CON5_REF2N.pdf	374716	no	35
Warnings:					
Information:					
		Total Files Size (in bytes):	1142861		

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PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	14324698
Filing Date	2014-07-07
First Named Inventor	David Walker Harper
Art Unit	2141
Examiner Name	Parmanand D. Patel
Attorney Docket Number	1018-2 CON5

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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FOREIGN PATENT DOCUMENTS

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

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

NON-PATENT LITERATURE DOCUMENTS

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2141
	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

	1	YAHOO! INC., "Yahoo! Clubs: Members' Guide Help," available at http://web.archive.org/web/19990508083127/http://help.yahoo.com/help/clubs/cmemb/, archived May 8, 1999, 1 page.	☐
	2	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help," available at http://web.archive.org/web/20010417055544/http://help.yahoo.com/help/clubs/cmemb, archived April 17, 2001, 1 page.	☐
	3	YAHOO! INC., "Yahoo! Clubs: Members' Guide: Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/19990508114903/http://help.yahoo.com/help/clubs/cmemb/cmemb-07.html, archived May 8, 1999, 1 page.	☐
	4	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/20010413162015/http://help.yahoo.com/help/us/clubs/cmemb/cmemb-07.html, archived April 13, 2001, 1 page.	☐
	5	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help," available at http://web.archive.org/web/19981202150201/http://help.yahoo.com/help/clubs/cfound/, archived December 2, 1998, 1 page.	☐
	6	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help," available at http://web.archive.org/web/20010331090631/http://help.yahoo.com/help/clubs/cfound, archived March 31, 2001, 1 page.	☐
	7	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Creating a Club'," available at http://web.archive.org/web/19981203045133/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived December 3, 1998, 1 page.	☐
	8	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Creating a Club'," available at http://web.archive.org/web/20010331093528/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived March 31, 2001, 1 page.	☐
	9	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/19981205214559/http://help.yahoo.com/help/clubs/cfound/cfound-01.html, archived December 5, 1998, 1 page.	☐
	10	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/20010331094343/http://help.yahoo.com/help/us/clubs/cfound/cfound-01.html, archived March 31, 2001, 1 page.	☐
	11	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Deleting a Member'," available at http://web.archive.org/web/19981205221807/http://help.yahoo.com/help/clubs/cfound/cfound-05.html, archived December 5, 1998, 1 page.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	David Walker Harper
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	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

	12	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Deleting a Member'," available at http://web.archive.org/web/20010413165744/http://help.yahoo.com/help/us/clubs/cfound/cfound-05.html, archived April 13, 2001, 1 page.	☐
	13	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/19990418010954/http://help.yahoo.com/help/clubs/clubs-06.html, archived April 18, 1999, 1 page.	☐
	14	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010331073311/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived March 31, 2001, 1 page.	☐
	15	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010413155804/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived April 13, 2001, 1 page.	☐
	16	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'How Do I Join a Club?'," available at http://web.archive.org/web/19990127221107/http://help.yahoo.com/help/clubs/clubs-04.html, archived January 27, 1999, 1 page.	☐
	17	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'How Do I Join a Club?'," available at http://web.archive.org/web/20010413121150/http://help.yahoo.com/help/us/clubs/clubs-04.html, archived April 13, 2001, 1 page.	☐
	18	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'What's the Difference Between a Listed and an Unlisted Club?'," available at http://web.archive.org/web/19981201045331/http://help.yahoo.com/help/clubs/clubs-03.html, archived December 1, 1998, 1 page.	☐
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	20	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'What's the Difference Between a Founder and a Member?'," available at http://web.archive.org/web/19990127231400/http://help.yahoo.com/help/clubs/clubs-05.html, archived January 27, 1999, 1 page.	☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2141
	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

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

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	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2016-03-29
Name/Print	Joseph B. Ryan	Registration Number	37922

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.**

Electronic Acknowledgement Receipt	
EFS ID:	25331890
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/James Lyons
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON5
Receipt Date:	29-MAR-2016
Filing Date:	07-JUL-2014
Time Stamp:	14:32:55
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) Form (SB08)	1018-2CON5_IDS.pdf	63865	no	5

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Information:					
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4	Non Patent Literature	1018-2CON5_REF3N.pdf	139408	no	1
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5	Non Patent Literature	1018-2CON5_REF4N.pdf	158805	no	1
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6	Non Patent Literature	1018-2CON5_REF5N.pdf	125771	no	1
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7	Non Patent Literature	1018-2CON5_REF6N.pdf	223678	no	1
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8	Non Patent Literature	1018-2CON5_REF7N.pdf	223917	no	1
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18	Non Patent Literature	1018-2CON5_REF17N.pdf	374691 f85dd090631b0f39f802aa5ddaf819f0f4c0a 0c81	no	1
Warnings:					
Information:					
19	Non Patent Literature	1018-2CON5_REF18N.pdf	307198 f97ee6ed5a921f620a92875c27320a0a80 c331	no	1

Warnings:					
Information:					
20	Non Patent Literature	1018-2CON5_REF19N.pdf	396188	no	1
Warnings:					
Information:					
21	Non Patent Literature	1018-2CON5_REF20N.pdf	217730	no	1
Warnings:					
Information:					
		Total Files Size (in bytes):	5186925		

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.
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5	6600

31825 7590 07/18/2016
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JEAN GILLES, JUDE	

ART UNIT	PAPER NUMBER
2447	

NOTIFICATION DATE	DELIVERY MODE
07/18/2016	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):

nyoffice@rml-law.com
jbr@rml-law.com
wel@rml-law.com

Office Action Summary	Application No. 14/324,698	Applicant(s) HARPER ET AL.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS 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 09/22/2014.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) 1-42 is/are pending in the application.

5a) Of the above claim(s) 1-20 is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) 21-42 is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

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

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date See Continuation Sheet.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

4) ☐ Other: _____.

Continuation of Attachment(s) 2). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :07/07/2014, 11/24/2014, 04/17/2015, 10/19/2015, and 03/29/2016.

1. The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

This Office Action is in reply to communication filed on 09/22/2014. Claimed priority

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 07/07/2014, 11/24/2014, 04/17/2015, 10/19/2015, and 03/29/2016 were filed on or after the mailing date of the original on 07/07/2014. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of pre-AIA 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 –
>
> (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 21-42 are rejected under pre-AIA 35 U.S.C. 102(a)(2) as being anticipated by Brandrud US 20010027422 A1.

5. Regarding claims 21-42, Brandrud teaches:

21. (New) A method comprising:

providing an interface permitting designation of content, via a mobile device, for insertion into an application-based information channel via a mobile device (figs. 1-2; abstract; par. 0032-0033); and

integrating the content and information associated with at least one wireless networking functionality of the mobile device into the application-based information channel (abstract, fig. 2; par. 0032-0033, 0058; 0010).

22. (New) The method of claim 21 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises location information of the mobile device (par. 0021 and 00 0029).

23. (New) The method of claim 21 wherein integrating the content and the information associated with said at least one wireless networking functionality of the mobile device comprises:
obtaining location information of the mobile device (par. 0021 and 0029); and

inserting additional content into the application-based information channel based on the obtained location information (abstract, fig. 2; par. 0032-0033, 0058; 0010).

24. (New) The method of claim 21 wherein integrating the content and the information associated with said at least one wireless networking functionality of the mobile device comprises:
obtaining product-identifying information over at least one wireless network; and inserting additional content into the application-based information channel based on the obtained product-identifying information (abstract, fig. 2; par. 0029, 0032-0033,0044, 0058; 0010).

25. (New) The method of claim 24 wherein inserting the additional content into the application-based information channel based on the received product-identifying information comprises inserting information relating to at least one of product ordering and product purchase
support (0012, 0044, and abstract).

26. (New) The method of claim 21 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises one of: location-based service information; one or more messaging actions implementable over a wireless network; and
one or more collaboration actions implementable over the wireless network (abstract, 0021, and 0035).

27. (New) The method of claim 21 further comprising providing, via the interface, one or more content integration options to the user (0035).

28. (New) A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs, wherein said executable program code when
executed by a processing element implements the steps of the method of claim 21 (fig. 3).

29. (New) An apparatus comprising:
a processing element comprising a processor coupled to a memory (figs. 1-2);

the processing element providing at least a portion of an interface permitting designation of content, via a mobile device, for insertion into an application-based information channel; and
the processing element being configured to integrate the content and information associated

with at least one wireless networking functionality of the mobile device into the application-based

information channel (abstract, figs. 1-2; par. 0029, 0032-0033, 0044, 0058; 0010).

30. (New) The apparatus of claim 29 wherein the processing element comprises at least one server accessible over the Internet via a network interface (fig. 2).

31. (New) A network-based communication system comprising a plurality of servers configured to communicate over a network, a given one of the servers comprising the apparatus of claim 29 (fig. 2).

32. (New) A method comprising:

designating content, via a mobile device, for insertion into an application-based information channel; and providing information associated with at least one wireless networking functionality of the mobile device for integration with the content into the application-based information channel (abstract, fig. 2; par. 0029, 0032-0033,0044, 0058; 0010).

33. (New) The method of 32 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises location information of the mobile device(par. 0021 and 0029).

34. (New) The method of claim 32 wherein providing the information associated with said

at least one wireless networking functionality of the mobile device comprises:
providing one or more content integration options to a user; receiving user input selecting at least one of the content integration options; and determining the information associated with said at least one wireless network functionality of the mobile device in accordance with the selected content integration options (abstract, fig. 2; par. 0029, 0032-0033,0044, 0058; 0010).

35. (New) The method of claim 32, wherein at least a portion of the content is obtained from a device-captured data source of the mobile device, the device-captured data source comprising a source of at least one of device-captured video data, device-captured audio data and device-captured location coordinates (abstract, fig. 2; par. 0029, 0032-0033,0044, 0058; 0010).

36. (New) A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs, wherein said executable program code when
executed by a processing element implements the steps of the method of claim 32 (abstract, fig. 2; par. 0029, 0032-0033,0044, 0058; 0010).

37. (New) A mobile device comprising:

a processing element comprising a processor coupled to a memory; and
a network interface; the processing element being configured to: designate content for insertion into an application-based information channel; and provide information associated with at least one wireless networking functionality of the mobile device for integration with the content into the application-based information channel (abstract, figs. 1-2; par. 0029, 0032-0033, 0044, 0058; 0010).

38. (New) The mobile device of claim 37 wherein the mobile device comprises one of a mobile telephone, a tablet computer and a camera (Cell device 1).

39. (New) The mobile device of claim 37 wherein the mobile device comprises a global positioning system (GPS)-based navigational device (Cell device 1).

40. (New) The mobile device of claim 37 wherein the mobile device comprises a watch or other timepiece (cell device 1).

41. (New) A method comprising:

providing an interface permitting a user to insert content, via a mobile device, into an application-based information channel; and integrating the content and information associated with at least one wireless networking functionality of the mobile device into the application-based information channel (abstract, figs. 1-2; par. 0029, 0032-0033,0044, 0058; 0010).

42. (New) A method comprising:

accessing an interface using a mobile device; providing content to at least one server for insertion into an application-based information channel using the interface; and providing information associated with at least one wireless networking functionality of the mobile device to said at least one server responsive to user input (abstract, figs. 1-2; par. 0029, 0032-0033,0044, 0058; 0010).

Double Patenting

6. 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 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); *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 nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For

more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

7. Claims 21-22 are rejected on the ground of nonstatutory double patenting over claims 1-25 of U.S. Patent No. 8825801 B2 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter.

Conclusion

8. This action is made Non-Final. Any inquiry concerning this communication or earlier communications from examiner should be directed to Jude Jean-Gilles whose telephone number is (571) 272-3914. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Hwang, can be reached on (571) 272-4036. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3301. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-0800.

/Jude J Jean-Gilles/

Primary Examiner, Art Unit 2447

Notice of References Cited	Application/Control No. 14/324,698	Applicant(s)/Patent Under Reexamination HARPER ET AL.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
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	G	US-				
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	K	US-				
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FOREIGN PATENT DOCUMENTS

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	R					
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	T					

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*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.

PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	
	Filing Date	
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

U.S.PATENTS						
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J./

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	Application Number	
	Filing Date	
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

	1	I. VOS ET AL., "The Essential Guide to Mobile Business," 2002, pp. 215-218, Prentice Hall PTR, Upper Saddle River, New Jersey.	☐
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	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

EXAMINER SIGNATURE			
Examiner Signature	/Jude Jean Gilles/	Date Considered	07/11/2016

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

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

The above non-patent literature documents and foreign references have been previously submitted in the parent case, Serial No. 13/364,950 in Information Disclosure Statements on December 27, 2013, October 14, 2012, October 10, 2012, May 29, 2012, March 13, 2012, March 7, 2012, March 6, 2012, March 5, 2012, and February 2, 2012.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-07
Name/Print	Joseph B. Ryan	Registration Number	37922

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

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

PTO/SB/08a (01-10)
Approved for use through 07/31/2012, OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris M. Pesin
	Attorney Docket Number	1018-2 CON5

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					
If you wish to add additional U.S. Patent citation information please click the Add button.						

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					
If you wish to add additional U.S. Published Application citation information please click the Add button.						

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐
If you wish to add additional Foreign Patent Document citation information please click the Add button								

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

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	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris M. Pesin
	Attorney Docket Number	1018-2 CON5

	1	Decision of the United States Court of Appeals for the Federal Circuit in Wireless Ink Corporation v. Google Inc. et al. and Wireless Ink Corporation v. Facebook Inc. et al., Nos. 2013-1683 and 2013-1684, 2 pages, July 16, 2014.	☐
	2	Decision of the Patent Trial and Appeal Board in Facebook, Inc., Requester v. Wireless Ink Corp., Patent Owner, Appeal No. 2014-007363, Reexamination Control No. 95/001,989, October 30, 2014, 15 pages.	☐
	3	Record of Oral Hearing Before the Patent Trial and Appeal Board in Facebook, Inc., Requester v. Wireless Ink Corp., Patent Owner, Appeal 2014-007363, Reexamination Control No. 95/001,989, October 1, 2014, 20 pages.	☐

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Examiner Signature	/Jude Jean Gilles/	Date Considered	07/11/2016

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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-11-21
Name/Print	Joseph B. Ryan	Registration Number	37922

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J./

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(integrat$3 insert$3) adj5 appplication same (Wireless mobile) adj4 (device apparatus computer node client server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:40
L2	22344	integrat$3 near20 (wireless mobile)adj7 (apparatus device functionality) same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:42
L3	17157	integrat$3 near7 (wireless mobile)adj7 (apparatus device functionality) same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:42
L4	25501	integrat$3 near7 application same (wireless mobile)adj7 (apparatus device functionality)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:43
L5	6493	integrat$3 near7 application near10 (wireless mobile)adj7 (apparatus device functionality)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:43
L6	10274	integrat$3 near7 application near10 (wireless mobile)adj7 (apparatus device server client node phone computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:44
L7	26	integrat$3 near7 application near10 (wireless mobile)adj7 (apparatus device server client node phone computer) same (application near10 channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:45
L8	0	"20010027422" and (mobile same applicatin same channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:46
L9	1	"20010027422" and (mobile same application same channel)	US-PGPUB; USPAT;	OR	ON	2016/07/11 11:46

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L10	1	"20010027422" and (channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:54
L11	1	"20010027422" and (mobile same application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:55
L12	42371	(mobile same application same channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:55
L13	10916	(mobile near30 application near40 channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:56
L14	1	"20010027422" and application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:16
L15	2	"20010027422" and locat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:21
L16	1	"20010027422" and locat$3 same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:31
L17	0	"20010027422" and locat$3 same application same content	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:31
L18	0	"20010027422" and locat$3 same application same information	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:31
L19	0	"20010027422" and locat$3 same application same data	US-PGPUB; USPAT;	OR	ON	2016/07/11 12:31

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L20	0	"20010027422" and locat$3 same application same data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:33
L21	1	"20010027422" and locat$3 same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:33
L22	2	(data information content) near7 (link$3 connect$3 associat$3) near10 (wireless adj3 mobile) near7 application-based adj4 information adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:35
L23	2	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application-based adj4 information adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:35
L24	2	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application near10 information adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:36
L25	2	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application near10 (information data content) adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:36
L26	15	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application near10 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:37
L27	0	"20010027422" and identif$4 same network same wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:41
L28	0	"20010027422" and identif$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:41
L29	1	"20010027422" and network same wireless	US-PGPUB; USPAT;	OR	ON	2016/07/11 12:41

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L30	2	"20010027422" and (buy$3 purcha$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:43
L31	0	"20010027422" and messag$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:44
L32	0	"20010027422" and report$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:44
L33	2	"20010027422" and mobile same locat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:45
L34	1	"20010027422" and mobile same interfac$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:47
L35	2	"20010027422" and time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:55
L36	2	"20010027422" and time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:55
L37	2	"20010027422" and time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:56
S1	65107	interfac$3 near10 (content data information) adj7 (choice select$3 designation pick$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:34
S2	97569	interfac$3 near10 (content data information) adj7 (choice select$3	US-PGPUB; USPAT;	OR	ON	2016/07/11 00:35

		designation pick$3) mear40 (insert$3 includ$3)same application near5 channel	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S3	67647	interfac$3 near10 (content data information) adj7 (choice select$3 designation pick$3) mear40 (insert$3 includ$3)same application near5 channel same mobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:35
S4	8012	integrat$3 near20 wireless adj7 (apparatus device functionality) same mobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:36
S5	215	integrat$3 near20 wireless adj7 (apparatus device functionality) same mobile same channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:36
S6	35	integrat$3 near20 wireless adj7 (apparatus device functionality) same mobile same (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:37
S7	103	integrat$3 near20 wireless adj7 (apparatus device functionality) same (mobile wireless) adj5 (device apparatus phone computer) same (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:38
S8	320	integrat$3 near20 (wireless mobile)adj7 (apparatus device functionality) same (mobile wireless) adj5 (device apparatus phone computer) same (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:39
S9	2	integrat$3 near20 (wireless mobile)adj7 (apparatus device functionality) same (mobile wireless) adj5 (device apparatus phone computer) same application adj7 (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:39

7/ 11/ 2016 1:48:02 PM
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14324698	HARPER ET AL.
	Examiner	Art Unit
	JUDE JEAN GILLES	2447

✓	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	07/11/2016								
	1	-								
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	34	✓								
	35	✓								
	36	✓								

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CLAIM		DATE								
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	37	✓								
	38	✓								
	39	✓								
	40	✓								
	41	✓								
	42	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	JUDE JEAN GILLES	2447

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	738, and 234	7/11/2016	JG

SEARCH NOTES		
Search Notes	Date	Examiner
EAST text and claim search; NPLs	7/11/2016	JG

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

	/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447

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

PTO/SB/08a (01-10)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	Examiner Name	Boris Pesin
	Attorney Docket Number	1018-2 CON5

U.S.PATENTS

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U.S.PATENT APPLICATION PUBLICATIONS

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FOREIGN PATENT DOCUMENTS

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	1							☐

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NON-PATENT LITERATURE DOCUMENTS

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

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	Attorney Docket Number	1018-2 CON5

	1	Brief of Appellee Facebook, Inc., filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, May 14, 2015, 54 pages.	☐
	2	Reply Brief for Appellant Wireless Ink Corporation, filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, May 29, 2015, 35 pages.	☐
	3	Audio Recording of the Oral Argument in Wireless Ink Corporation v. Facebook, Inc., No. 2015-1299, before the United States Court of Appeals for the Federal Circuit, October 7, 2015, available at: http://www.cafc.uscourts.gov/oral-argument-recordings/search/audio.html?title=&field_case_number_value=15-1299&field_date_value2%5Bvalue%5D%5Bdate%5D=2015-10-07.	☐
	4	Decision of the United States Court of Appeals for the Federal Circuit in Wireless Ink Corporation v. Facebook, Inc., No. 2015-1299, October 9, 2015, 2 pages.	☐

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Examiner Signature	/Jude Jean Gilles/	Date Considered	07/11/2016

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris Pesin
	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2015-10-19
Name/Print	Joseph B. Ryan	Registration Number	37922

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

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	Application Number	
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	First Named Inventor	David Walker Harper
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	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON5

U.S.PATENTS						
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	1	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN3301-UKN3399.	☐
	2	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS9 containing documents numbered UKN3476-UKN3550.	☐
	3	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS10 containing documents numbered UKN3551-UKN3584, UKN3592-UKN3597, UKN3600, UKN3602-UKN3609, UKN3611, UKN3613, UKN3614, UKN3616, UKN3620, UKN3622, UKN3623, UKN3625, UKN3627, UKN3629-UKN3642, UKN3644-UKN3657, UKN3659 and UKN3660.	☐
	4	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of training documents titled UKNT1 containing documents numbered UKN3662, UKN3663, UKN3665, UKN3667-UKN3672, UKN3674, UKN3675, UKN3677, UKN3679 and UKN3680.	☐
	5	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN458-UKN464, UKN477-UKN479, UKN481-UKN483, UKN485-UKN492, UKN495, UKN496, UKN498, UKN501-UKN548, UKN559-UKN565, UKN567-UKN572, UKN574-UKN600, UKN602-UKN609, UKN611-UKN648, UKN650-UKN718, UKN720-UKN890, UKN892-UKN896, UKN898, UKN900-1009, UKN1011-1051 and UKN1053-UKN1097.	☐
	6	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1099-UKN1196, UKN1198, UKN1200-UKN1306, UKN1308-UKN1311, UKN1314, UKN1316-UKN1339, UKN1341-UKN1344, UKN1347, UKN1349-UKN1359, UKN1380-UKN1383, UKN1385-UKN1388, UKN1391 and UKN1393-UKN1420.	☐
	7	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1422-UKN1425, UKN1429-UKN1444, UKN1447-UKN1708, UKN1710-UKN1714, UKN1716, UKN1718-UKN1741, UKN1743-UKN1745 and UKN1748-UKN1753.	☐
	8	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of training documents titled UKNT1 containing documents numbered UKN3662, UKN3663, UKN3665, UKN3667-UKN3672, UKN3674, UKN3675, UKN3677, UKN3679 and UKN3680.	☐
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	12	R. HOEG, "Virtual Accordian Clubs from Yahoo!(Minnesota Accordion Club)," posted on the Internet through Usenet on December 1, 1998, copy pulled from google Groups (http://groups.google.com/group/rec.music.makers.squeezebox/msg/bad62e373462c6a6).	☐
	13	D. FOX ET AL., "Web Publisher's Construction Kit with HTML 3.2, pp. cover page, copyright page15-16, The Waite Group, Inc., Corte Madera, California.	☐
	14	A. FREEDMAN, The Computer Glossary: The Complete Illustrated Dictionary, 2001, pp. cover page, copyright page, 437-438, 9th edition, AMACOM American Management Association, New York, New York.	☐
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	17	Copyright Recordation, "Yahoo! for Dummies," http://cocatalog.loc.gov/, United States Copyright Office.	☐
	18	K. MALY ET AL., "Personalized Portal for Wireless Devices," Old Dominion Univeristy Dept. of Computer Science Technical Report TR_2000_07, Nov. 7, 2000, 9 pages.	☐
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	23	J.P. MYSORE ET AL., "A Reconfigurable Stream Orchestration Framework for Mobile Users," Proceedings of the Third International Conference on Mobile Data Management (MDM '02), Singapore, August 2002, 8 pages.	☐
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	25	J. FREIRE ET AL., "Web Services and Information Delivery for Diverse Environments," Proceedings of the Very Large Data Bases (VLDB) Workshop on Technologies for E-Services, Cairo, Egypt, September 2000, 16 pages.	☐
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	37	C. HILLEBRAND ET AL, "Mobile Communities - Extending Online Communities into the Real World," Proceeding of Mobile and Collaborative Business 2002, Germany, 2002, 12 pages.	☐
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	41	V. ANUPAM ET AL., "Personalizing the Web Using Site Descriptions," Proceedings of the Tenth International Workshop on Database and Expert Systems Applications, Florence, Italy, 1999, 7 pages.	☐
	42	R. BARTA ET AL., "Syndication with JML," Proceedings of the 2000 ACM Symposium on Applied Computing (SAC '00), March 2000, pp. 962-970 vol. 2, Como ,Italy.	☐
	43	P. BELLAVISTA ET AL., "A Mobile Agent Infrastructure for Terminal, User and Resource Mobility," 2000 IEEE/IFIP Network Operations and Management Symposium (NOMS), Honolulu, Hawaii, April 2000, 14 pages.	☐
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	Attorney Docket Number	1018-2 CON5

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

EXAMINER SIGNATURE

Examiner Signature	/Jude Jean Gilles/	Date Considered	07/11/2016

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

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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-07
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U.S.PATENTS						
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	1	6691158	B1	2004-02-10	Douvikas et al.	
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CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-07
Name/Print	Joseph B. Ryan	Registration Number	37922

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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

Application Number	14324698
Filing Date	2014-07-07
First Named Inventor	David Walker Harper
Art Unit	2172
Examiner Name	Boris Pesin
Attorney Docket Number	1018-2 CON5

U.S.PATENTS						
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	5267042		1993-11-30	Tsuchiya et al.	
	2	5450344		1995-09-12	Woo et al.	
	3	5712679		1998-01-27	Coles	
	4	5768640		1998-06-16	Takahashi et al.	
	5	5902347		1999-05-11	Backman et al.	
	6	6282362	B1	2001-08-28	Murphy et al.	
	7	6462778	B1	2002-10-08	Abram et al.	
	8	6525768	B2	2003-02-25	Obradovich	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2172
	Examiner Name	Boris Pesin
	Attorney Docket Number	1018-2 CON5

	9	6594347	B1	2003-07-15	Calder et al.	
	10	6914626	B2	2005-07-05	Squibbs	
	11	6943825	B2	2005-09-13	Silvester	
	12	7016899	B1	2006-03-21	Stern et al.	
	13	7191220	B2	2007-03-13	Ohwa	
	14	7444156	B2	2008-10-28	Boss et al.	
	15	7526718	B2	2009-04-28	Samadani et al.	
	16	7535492	B2	2009-05-19	Kahn et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS

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	20020087601	A1	2002-07-04	Anderson et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J./

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	First Named Inventor	David Walker Harper
	Art Unit	2172
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	Attorney Docket Number	1018-2 CON5

	2	20020094787	A1	2002-07-18	Avnet et al.	
	3	20020180764	A1	2002-12-05	Gilbert et al.	
	4	20030063770	A1	2003-04-03	Svendsen et al.	
	5	20030184793	A1	2003-10-02	Pineau	
	6	20110296326	A1	2011-12-01	Reid et al.	
	7	20010015756	A1	2001-08-23	Wilcock et al.	
	8	20020044690	A1	2002-04-18	Burgess	
	9	20020047798	A1	2002-04-25	Platt	
	10	20020047895	A1	2002-04-25	Bernardo et al.	
	11	20020060246	A1	2002-05-23	Gobburu et al.	
	12	20020154213	A1	2002-10-24	Sibyama et al.	

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	Filing Date	2014-07-07
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	Attorney Docket Number	1018-2 CON5

	13	20030156208	A1	2003-08-21	Obradovich	
	14	20030202104	A1	2003-10-30	Werner	
	15	20040123131	A1	2004-06-24	Zacks et al.	

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

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	GB2249202	GB	A	1992-04-29			☐
	2	JP3910794	JP	B2	2007-04-25			☐

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

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Corrected Opening Bnef for Appellant Wireless Ink Corporation filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, April 2, 2015, 141 pages.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/Jude Jean Gilles/	Date Considered	07/11/2016

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J./

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	Attorney Docket Number	1018-2 CON5

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

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Application Number	14324698
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First Named Inventor	David Walker Harper
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Examiner Name	Boris Pesin
Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2015-04-17
Name/Print	Joseph B. Ryan	Registration Number	37922

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J./

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5	6600

31825 7590 08/15/2016
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JEAN GILLES, JUDE	

ART UNIT	PAPER NUMBER
2447	

NOTIFICATION DATE	DELIVERY MODE
08/15/2016	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):

nyoffice@rml-law.com
jbr@rml-law.com
wel@rml-law.com

Applicant-Initiated Interview Summary	Application No.	Applicant(s)	
	14/324,698	HARPER ET AL.	
	Examiner	Art Unit	
	JUDE JEAN GILLES	2447	

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

(1) *JUDE JEAN GILLES*. (3)_____.

(2) *PATRICK MURAY*. (4)_____.

Date of Interview: *10 August 2016*.

Type: ☒ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☐ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☒102 ☐103 ☐Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: *21*.

Identification of prior art discussed: *Brandrud US 20010027422 A1* .

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

Participants discussed the applicants' invention in light of the proposed amendments and arguments regarding claim 21. The participants agreed that the amendments to claim 21 appear to overcome the cited prior art. Examiners made suggestion on further amendment to the claim to clarify the claim language and possibly advance prosecution. A terminal disclaimer will be filed timely to overcome the double patenting rejections. No final agreement is reached.The discussed amendments to claim 21 will require further search and/or consideration upon filing a formal response.

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☒ Attachment

/JUDE JEAN GILLES/ Primary Examiner, Art Unit 2447	

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.

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	14324698
Filing Date	07-Jul-2014
First Named Inventor	David Harper
Attorney Docket Number	1018-2 CON5
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
Wireless Ink Corporation	100%

The owner(s) with percent interest listed above 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 of prior patent number(s)

8825801

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 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.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ◉ Small Entity ○ Micro Entity ○ Regular Undiscounted 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.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number 69188 ○ A sole inventor ○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ○ A joint inventor; all of whom are signing this request	
Signature	/Patrick G. Murray/
Name	Patrick G Murray

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	14324698
Filing Date:	07-Jul-2014
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Patrick G. Murray
Attorney Docket Number:	1018-2 CON5

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Statutory or Terminal Disclaimer	2814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	160

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 14324698

Filing Date: 07-Jul-2014

Applicant/Patent under Reexamination: Harper et al.

Electronic Terminal Disclaimer filed on September 14, 2016

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	26921748
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Patrick G. Murray
Filer Authorized By:	
Attorney Docket Number:	1018-2 CON5
Receipt Date:	14-SEP-2016
Filing Date:	07-JUL-2014
Time Stamp:	13:31:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$160
RAM confirmation Number	10214
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Electronic Terminal Disclaimer-Filed	eTerminal-Disclaimer.pdf	33632 [illegible]	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30863 [illegible]	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64495		

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/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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(Not for submission under 37 CFR 1.99)

Application Number	14324698
Filing Date	2014-07-07
First Named Inventor	David Walker Harper
Art Unit	2447
Examiner Name	Jude Jean Gilles
Attorney Docket Number	1018-2 CON5

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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

FOREIGN PATENT DOCUMENTS

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

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

NON-PATENT LITERATURE DOCUMENTS

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON5

	1	JIM LYNCH, "Netscape Moves in on Microsoft", PC Magazine, December 15, 1998, pages 60-61.	☐

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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.

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	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2016-09-14
Name/Print	Joseph B. Ryan	Registration Number	37922

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.**

Electronic Patent Application Fee Transmittal	
Application Number:	14324698
Filing Date:	07-Jul-2014
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan/Nancy Crowe
Attorney Docket Number:	1018-2 CON5
Filed as Large Entity	
Filing Fees for **Utility under 35 USC 111(a)**	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt	
EFS ID:	26927525
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Nancy Crowe
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON5
Receipt Date:	14-SEP-2016
Filing Date:	07-JUL-2014
Time Stamp:	17:06:59
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$180
RAM confirmation Number	4147
Deposit Account	500762
Authorized User	RYAN, JOSEPH B.
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 CFR 1.16 (National application filing, search, and examination fees) Charge any Additional Fees required under 37 CFR 1.17 (Patent application and reexamination processing fees)	

Charge any Additional Fees required under 37 CFR 1.19 (Document supply fees)

Charge any Additional Fees required under 37 CFR 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 CFR 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	Amendment/Req. Reconsideration-After Non-Final Reject	1018-2CON5_AM1.pdf	99351 [illegible]	no	9
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON5_IDS.pdf	59641 [illegible]	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Non Patent Literature	1018-2CON5_REF1N.pdf	649317 [illegible]	no	2
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	31378 [illegible]	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	839687		

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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant:	Wireless Ink Corporation
Inventor(s):	David Walker Harper et al.
Docket No.:	1018-2 CON5
Serial No.:	14/324,698
Filing Date:	July 7, 2014
Group:	2447
Examiner:	Jude Jean Gilles
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility over Wireless Communication Networks

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AMENDMENT AND RESPONSE TO OFFICE ACTION

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

Sir:

In response to the non-final Office Action dated July 18, 2016, Applicant respectfully requests reconsideration of the above-identified application in view of the amendments and remarks herein.

IN THE CLAIMS

1-20. (Canceled)

21. (Currently amended) A method comprising:

providing a[[n]] first interface permitting designation of at least one content item, via a mobile device, for insertion into an application-based information channel ~~via a mobile device~~, the at least one content item comprising media data captured by the mobile device; and

integrating the at least one content item and information associated with at least one wireless networking functionality of the mobile device to generate at least one integrated content item; and

inserting the at least one integrated content item into the application-based information channel, the application-based information channel providing a second interface wherein two or more users share access to a plurality of content items including the at least one integrated content item.

22. (Previously presented) The method of claim 21 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises location information of the mobile device.

23. (Currently amended) The method of claim 21 wherein integrating the at least one content item and the information associated with said at least one wireless networking functionality of the mobile device comprises:

obtaining location information of the mobile device; ~~and~~

identifying ~~inserting~~ additional content ~~into the application-based information channel~~ based on the obtained location information; and

generating the at least one integrated content item by combining the at least one content item with the additional content.

24. (Currently amended) The method of claim 21 wherein integrating the at least one content item and the information associated with said at least one wireless networking functionality of the mobile device comprises:

obtaining product-identifying information over at least one wireless network; and

identifying ~~inserting~~ additional content ~~into the application based information channel~~ based on the obtained product-identifying information; and

generating the at least one integrated content item by combining the at least one content item with the additional content.

25. (Currently amended) The method of claim 24 wherein ~~inserting~~ the additional content ~~into the application based information channel based on the received product identifying information~~ comprises ~~inserting~~ information relating to at least one of product ordering and product purchase support.

26. (Previously presented) The method of claim 21 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises one of: location-based service information; one or more messaging actions implementable over a wireless network; and one or more collaboration actions implementable over the wireless network.

27. (Currently amended) The method of claim 21 further comprising providing, via the first interface, one or more content integration options to the user.

28. (Previously presented) A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs, wherein said executable program code when executed by a processing element implements the steps of the method of claim 21.

29. (Currently amended) An apparatus comprising:

a processing element comprising a processor coupled to a memory;

the processing element providing at least a portion of a[[n]] first interface permitting designation of at least one content item, via a mobile device, for insertion into an application-based information channel, the at least one content item comprising media data captured by the mobile device; and

the processing element being configured:

to integrate the at least one content item and information associated with at least one wireless networking functionality of the mobile device to generate at least one integrated content item; and

to insert the at least one integrated content item into the application-based information channel, the application-based information channel providing a second interface wherein two or more users share access to a plurality of content items including the at least one integrated content item.

30. (Previously presented) The apparatus of claim 29 wherein the processing element comprises at least one server accessible over the Internet via a network interface.

31. (Previously presented) A network-based communication system comprising a plurality of servers configured to communicate over a network, a given one of the servers comprising the apparatus of claim 29.

32. (Currently amended) A method comprising:

designating at least one content item, via a mobile device, for insertion into an application-based information channel, the at least one content item comprising media data captured by the mobile device; and

providing information associated with at least one wireless networking functionality of the mobile device for integration with the at least one content item;

wherein the at least one content item and the information associated with said at least one wireless networking functionality of the mobile device are integrated to generate at least one integrated content item; and

wherein the at least one integrated content item is inserted into the application-based information channel, the application based information channel providing an interface wherein two or more users share access to a plurality of content items including the at least one integrated content item.

33. (Previously presented) The method of 32 wherein the information associated with said at least one wireless networking functionality of the mobile device comprises location information of the mobile device.

34. (Previously presented) The method of claim 32 wherein providing the information associated with said at least one wireless networking functionality of the mobile device comprises:

providing one or more content integration options to a user;

receiving user input selecting at least one of the content integration options; and

determining the information associated with said at least one wireless network functionality of the mobile device in accordance with the selected content integration options.

35. (Currently amended) The method of claim 32, wherein ~~at least a portion of the content is obtained from a device-captured data source of the mobile device, the device-captured data source comprising a source of~~ the at least one content item comprises at least one of device-captured video data, device-captured audio data and device-captured ~~location coordinates~~ image data.

36. (Previously presented) A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs, wherein said executable program code when executed by a processing element implements the steps of the method of claim 32.

37. (Currently amended) A mobile device comprising:

a processing element comprising a processor coupled to a memory; and

a network interface;

the processing element being configured to:

designate at least one content item for insertion into an application-based information channel, the at least one content item comprising media data captured by the mobile device; and

provide information associated with at least one wireless networking functionality of the mobile device for integration with the at least one content item;

wherein the at least one content item and the information associated with said at least one wireless networking functionality of the mobile device are integrated to generate at least one integrated content item; and

wherein the at least one integrated content item is inserted into the application-based information channel, the application-based information channel providing an interface wherein two or more users share access to a plurality of content items including the at least one integrated content item.

38. (Previously presented) The mobile device of claim 37 wherein the mobile device comprises one of a mobile telephone, a tablet computer and a camera.

39. (Previously presented) The mobile device of claim 37 wherein the mobile device comprises a global positioning system (GPS)-based navigational device.

40. (Previously presented) The mobile device of claim 37 wherein the mobile device comprises a watch or other timepiece.

41. (Currently amended) A method comprising:

providing a[[n]] first interface on a mobile device permitting a user to ~~insert~~ designate at least one content item for insertion~~, via a mobile device,~~ into an application-based information channel, the at least one content item comprising media data captured by the mobile device; ~~and~~

~~providing integrating the content and~~ wherein information associated with at least one wireless networking functionality of the mobile device is integrated with the at least one content item to generate at least one integrated content item; and

wherein the at least one integrated content item is inserted into the application-based information channel, the application-based information channel providing a second interface wherein two or more users share access to a plurality of content items including the at least one integrated content item.

42. (Currently amended) A method comprising:

accessing a[[n]] first interface using a mobile device;

providing at least one content item to at least one server for insertion into an application-based information channel using the first interface, the at least one content item comprising media data captured by the mobile device; and

providing information associated with at least one wireless networking functionality of the mobile device to said at least one server responsive to user input;

wherein the at least one content item and the information associated with said at least one wireless networking functionality of the mobile device are integrated to generate at least one integrated content item; and

wherein the at least one integrated content item is inserted into the application-based information channel, the application-based information channel providing a second interface wherein two or more users share access to a plurality of content items including the at least one integrated content item.

REMARKS

The present application was filed on July 7, 2014 with claims 1-20. In a preliminary amendment, claims 1-20 were canceled and claims 21-42 were added. The present application claims the priority of U.S. Provisional Application Serial No. 60/389,430, filed June 18, 2002 through a number of continuation applications.

Claims 21-42 are rejected under pre-AIA 35 U.S.C. §102 as being anticipated by U.S. Patent Application Publication No. 2001/0027422 (hereinafter "Brandrud").

Claims 21 and 22 are rejected on the ground of nonstatutory double patenting over claims 1-25 of U.S. Patent No. 8,825,801 (hereinafter "the '801 patent").

As an initial matter, Applicant thanks the Examiner for the courtesies extended during a telephone interview conducted on August 10, 2016. During the interview, the §102 rejection was discussed along with possible amendments to the claims.

With regard to the nonstatutory double patenting rejection, Applicant respectfully traverses and submits that claims 21 and 22 of the present application are patentably distinct from claims 1-25 of the '801 patent. Notwithstanding this traversal, Applicant has chosen to file herewith a terminal disclaimer under 37 C.F.R. §1.321 solely in order to expedite prosecution of the present application. Withdrawal of the nonstatutory double patenting rejection is therefore respectfully requested.

Applicant traverses the §102 rejection of the claims and submits that Brandrud fails to disclose all of the limitations of the claims arranged as recited in the claims. Notwithstanding this traversal, Applicant has chosen to amend the claims solely in order to clarify the claimed subject matter.

Independent claim 21, for example, is amended to recite providing a first interface permitting designation of at least one content item, via a mobile device, for insertion into an application-based information channel, the at least one content item comprising media data captured by the mobile device, integrating the at least one content item and information associated with at least one wireless networking functionality of the mobile device to generate at least one integrated content item, and inserting the at least one integrated content item into the application-based information channel, the application-based information channel providing a second interface

wherein two or more users share access to a plurality of content items including the at least one integrated content item. These amendments are supported throughout the specification at, for example, page 8, lines 1-12, page 8, line 26 to page 11, line 27, page 13, lines 1-14 and page 25, lines 16-24. Similar amendments which are similarly supported have been made to the remaining independent claims, and various dependent claims are amended so as to conform to the amendments made to the independent claims.

Applicant respectfully submits that Brandrud fails to disclose at least the newly-added features of the independent claims. During the August 10, 2016 telephone interview, the Examiner indicated that the amendments made herein would overcome the current ground of rejection and likely lead to allowance of the present application.

The dependent claims are believed to be patentable at least by virtue of their respective dependencies from the independent claims. The dependent claims are also believed to recite separately patentable subject matter.

In view of the above, Applicant respectfully submits that the claims are in condition for allowance, and respectfully requests withdrawal of the present rejections.

Respectfully submitted,

/Joseph B. Ryan/

Date: September 14, 2016

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Reg. No. 37,922
Ryan, Mason & Lewis, LLP
48 South Service Road, Suite 100
Melville, NY 11747
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PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 14/324,698	Filing Date 07/07/2014	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT 09/14/2016

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 22	Minus	** 22	= 0	X $40 =	0
Independent (37 CFR 1.16(h))	* 6	Minus	*** 6	= 0	X $210 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

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

LIE
/LAMONT MCLAUCHLIN/

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31825 7590 12/06/2016
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JEAN GILLES, JUDE	
ART UNIT	PAPER NUMBER
2447	

DATE MAILED: 12/06/2016

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5	6600

TITLE OF INVENTION: METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	03/06/2017

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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Meta's Exhibit 1022
Page 00349

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

31825 7590 12/06/2016
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5	6600

TITLE OF INVENTION: METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	03/06/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
JEAN GILLES, JUDE	2447	715-738000

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

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

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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

Meta's Exhibit 1022
Page 00350

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5	6600

31825 7590 12/06/2016
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JEAN GILLES, JUDE	

ART UNIT	PAPER NUMBER
2447	

DATE MAILED: 12/06/2016

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

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

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

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

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

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

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

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
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.

Notice of Allowability	Application No. 14/324,698	Applicant(s) HARPER ET AL.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	AIA (First Inventor to File) Status No

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

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

1. ☒ This communication is responsive to *09/14/2016*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *21-42*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

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

   * Certified copies not received: _____.

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

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

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

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 09/14/2016
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ ,
5. ☐ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447

Meta's Exhibit 1022
Page 00353

1. The present application is being examined under the pre-AIA first to invent provisions.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 09/14/2016 was filed after the mailing date of the original application on 07/07/2014. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: the closest prior art of record, Brandrud US 2001/0027422 A1, does not teach nor suggest in detail of a system/method comprising"*...integrating the at least one content item and information associated with at least one wireless networking functionality of the mobile device to generate at least one integrated content item; and inserting the at least one integrated content item into the application-based information channel, the application-based information channel providing a second interface wherein two or more users share access to a plurality of content items including the at least one integrated content item.*" in combination with all the elements of each independent claim as filed by Applicant on 09/14/2016. The claim has been considered persuasive, in light of its limitations, as well as enabling portions of the specification.

4. The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Cancelled Claims

5. Claims 1-20 have been cancelled without prejudice or disclaimer.

Allowed Claims

6. Claims 21-42 are allowed; renumbered 1-21.

Conclusion

7. Any inquiry concerning this communication or earlier communications from examiner should be directed to Jude Jean-Gilles whose telephone number is (571) 272-3914. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Hwang, can be reached on (571) 272-4026. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3301. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-0800. 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)?

/JUDE JEAN GILLES/

Primary Examiner, Art Unit 2447

November 27, 2016

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14324698	HARPER ET AL.
	Examiner	Art Unit
	JUDE JEAN GILLES	2447

CPC							
Symbol						Type	Version
G06F		17	/	30905		F	2013-01-01
G06Q		30	/	02		I	2013-01-01
H04L		12	/	18		I	2013-01-01
H04L		12	/	1827		I	2013-01-01
H04L		12	/	1859		I	2013-01-01
H04L		12	/	189		A	2013-01-01
H04L		12	/	5895		I	2013-01-01
H04L		29	/	06		I	2013-01-01
H04L		51	/	38		I	2013-01-01
H04W		4	/	00		A	2013-01-01
H04W		8	/	20		A	2013-01-01
H04W		28	/	06		A	2013-01-01
H04L		67	/	14		I	2013-01-01
H04L		67	/	04		I	2013-01-01
H04L		67	/	18		I	2013-01-01
H04L		69	/	329		A	2013-01-01
G06F		3	/	0484		I	2013-01-01
G06F		3	/	0481		I	2013-01-01
H04L		41	/	22		I	2013-01-01
H04W		8	/	00		I	2013-01-01
G06F		17	/	30896		I	2013-01-01
H04L		67	/	02		I	2013-01-01
H04L		67	/	10		I	2013-01-01
H04L		67	/	42		I	2013-01-01

CPC Combination Sets							
Symbol					Type	Set	Ranking	Version
			/					
			/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	21	
/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447	11/28/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14324698	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 21	
/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447 (Primary Examiner)	11/28/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1A

U.S. Patent and Trademark Office

Part of Paper No. 20161128

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14324698	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION	
CLASS	SUBCLASS	CLAIMED	NON-CLAIMED
715	738	G 06 F 15 / 16 (2006.01.01)	
		G 06 F 3 / 0484 (2013.01.01)	

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
715	736	743	205		
709	217	203	204	224	232
725	87	44	87		

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	21	
/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447	11/28/2016	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14324698	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

☐ 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		17	13	33										
	2		18	14	34										
	3		19	15	35										
	4		20	16	36										
	5	1	21	17	37										
	6	2	22	18	38										
	7	3	23	19	39										
	8	4	24	20	40										
	9	5	25	21	41										
	10	6	26	22	42										
	11	7	27												
	12	8	28												
	13	9	29												
	14	10	30												
	15	11	31												
	16	12	32												

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 21	
/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447 (Primary Examiner)	11/28/2016 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1A

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BIB DATA SHEET

CONFIRMATION NO. 6600

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/324,698	07/07/2014 RULE	715	2447	1018-2 CON5

APPLICANTS
Wireless Ink Corporation, East Islip, NY;

INVENTORS
David Walker Harper, Bay Shore, NY;
Jason James Sabella, Coram, NY;
William Henry Munch, Tampa, FL;

**** CONTINUING DATA ***************************
This application is a CON of 14/175,768 02/07/2014 PAT 8825801
which is a CON of 13/364,950 02/02/2012 PAT 8793336
which is a CON of 13/027,519 02/15/2011 PAT 8135801
which is a CON of 12/548,928 08/27/2009 PAT 7908342
which is a CON of 10/464,526 06/18/2003 PAT 7599983
which claims benefit of 60/389,430 06/18/2002

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

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** ** SMALL ENTITY ****
07/17/2014

Foreign Priority claimed	35 USC 119(a-d) conditions met	Verified and Acknowledged	Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ Yes ☑ No	☐ Yes ☑ No	/JUDE JEAN GILLES/ Examiner's Signature	☐ JG Initials	NY	48	20	3

ADDRESS
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747
UNITED STATES

TITLE
METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

FILING FEE RECEIVED		
1440	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

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	826	integrat$3 near20 (wireless mobile)adj7 content adj5 (item resource content video text data information audio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 01:48
L2	44453	(wireless mobile)adj7 content adj5 (item resource content video text data information audio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 01:49
L3	1413	(insert$3 integrat$3) near20 (wireless mobile)adj7 content adj5 (item resource content video text data information audio)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 01:50
L4	53	((insert$3 integrat$3) near20 (wireless mobile)adj7 content adj5 (item resource content video text data information audio)) and shar$3 adj3 access$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 01:50
L5	6	((insert$3 integrat$3) near20 (wireless mobile)adj7 content adj5 (item resource content video text data information audio)) same shar$3 adj3 access$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 01:50
L6	5	channel same ((insert$3 integrat$3) near20 (wireless mobile)adj7 content adj5 (item resource content video text data information audio)) same shar$3 adj3 access$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 01:51
L7	91840	((709/217) or (709/203) or (709/204) or (709/224) or (709/232) or (709/248) or (709/230) or (725/97) or (725/44) or (725/87) or (715/738) or (715/736) or (715/743) or (715/205)).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2016/11/28 01:56
L8	71	7 and 1	US-PGPUB; USPAT	OR	ON	2016/11/28 01:56
S1	65107	interfac$3 near10 (content data information) adj7 (choice select$3 designation pick$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:34

S2	97569	interfac$3 near10 (content data information) adj7 (choice select$3 designation pick$3) mear40 (insert$3 includ$3)same application near5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:35
S3	67647	interfac$3 near10 (content data information) adj7 (choice select$3 designation pick$3) mear40 (insert$3 includ$3)same application near5 channel same mobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:35
S4	8012	integrat$3 near20 wireless adj7 (apparatus device functionality) same mobile	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:36
S5	215	integrat$3 near20 wireless adj7 (apparatus device functionality) same mobile same channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:36
S6	35	integrat$3 near20 wireless adj7 (apparatus device functionality) same mobile same (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:37
S7	103	integrat$3 near20 wireless adj7 (apparatus device functionality) same (mobile wireless) adj5 (device apparatus phone computer) same (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:38
S8	320	integrat$3 near20 (wireless mobile)adj7 (apparatus device functionality) same (mobile wireless) adj5 (device apparatus phone computer) same (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:39
S9	2	integrat$3 near20 (wireless mobile)adj7 (apparatus device functionality) same (mobile wireless) adj5 (device apparatus phone computer) same application adj7 (information data content) adj5 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 00:39
S10	0	(integrat$3 insert$3) adj5 appplication same (Wireless mobile) adj4 (device apparatus computer node client server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:40
S11	22344	integrat$3 near20 (wireless mobile)adj7 (apparatus device functionality) same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:42

S12	17157	integrat$3 near7 (wireless mobile)adj7 (apparatus device functionality) same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:42
S13	25501	integrat$3 near7 application same (wireless mobile)adj7 (apparatus device functionality)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:43
S14	6493	integrat$3 near7 application near10 (wireless mobile)adj7 (apparatus device functionality)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:43
S15	10274	integrat$3 near7 application near10 (wireless mobile)adj7 (apparatus device server client node phone computer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:44
S16	26	integrat$3 near7 application near10 (wireless mobile)adj7 (apparatus device server client node phone computer) same (application near10 channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 10:45
S17	0	"20010027422" and (mobile same applicatin same channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:46
S18	1	"20010027422" and (mobile same application same channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:46
S19	1	"20010027422" and (channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:54
S20	1	"20010027422" and (mobile same application)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:55
S21	42371	(mobile same application same channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:55

S22	10916	(mobile near30 application near40 channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 11:56
S23	1	"20010027422" and application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:16
S24	2	"20010027422" and locat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:21
S25	1	"20010027422" and locat$3 same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:31
S26	0	"20010027422" and locat$3 same application same content	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:31
S27	0	"20010027422" and locat$3 same application same information	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:31
S28	0	"20010027422" and locat$3 same application same data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:31
S29	0	"20010027422" and locat$3 same application same data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:33
S30	1	"20010027422" and locat$3 same application	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:33
S31	2	(data information content) near7 (link$3 connect$3 associat$3) near10 (wireless adj3 mobile) near7 application-based adj4 information adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:35

S32	2	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application-based adj4 information adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:35
S33	2	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application near10 information adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:36
S34	2	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application near10 (information data content) adj4 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:36
S35	15	(data information content) near7 (link$3 connect$3 associat$3) same (wireless adj3 mobile) near7 application near10 channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:37
S36	0	"20010027422" and identif$4 same network same wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:41
S37	0	"20010027422" and identif$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:41
S38	1	"20010027422" and network same wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:41
S39	2	"20010027422" and (buy$3 purcha$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:43
S40	0	"20010027422" and messag$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:44
S41	0	"20010027422" and report$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:44

S42	2	"20010027422" and mobile same locat$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:45
S43	1	"20010027422" and mobile same interfac$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:47
S44	2	"20010027422" and time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:55
S45	2	"20010027422" and time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:55
S46	2	"20010027422" and time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/07/11 12:56
S47	6	"8825801" .pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:19
S48	6	"8825801".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:19
S49	111	content adj4 integrat$4 near5 wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:27
S50	4	generat$3 near10 content adj4 integrat$4 near5 wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:27
S51	418	generat$3 near10 content adj4 integrat$4 near5 (item resource media data information audio video)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:28

S52	0	generat$3 near10 content adj4 integrat$4 near5 (item resource media data information audio video) same woreless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:28
S53	16	generat$3 near10 content adj4 integrat$4 near5 (item resource media data information audio video) same wireless	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:28
S54	2	"7599983".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2016/11/28 00:37

11/ 28/ 2016 1:58:59 AM
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14324698	HARPER ET AL.
	Examiner	Art Unit
	JUDE JEAN GILLES	2447

✓	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	07/11/2016	11/28/2016							
	1	-	-							
	2	-	-							
	3	-	-							
	4	-	-							
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12	32	✓	=							
13	33	✓	=							
14	34	✓	=							
15	35	✓	=							
16	36	✓	=							

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17	37	✓	=							
18	38	✓	=							
19	39	✓	=							
20	40	✓	=							
21	41	✓	=							
22	42	✓	=							

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	14324698
Filing Date	2014-07-07
First Named Inventor	David Walker Harper
Art Unit	2447
Examiner Name	Jude Jean Gilles
Attorney Docket Number	1018-2 CON5

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]

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	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON5

/J.J./	1	JIM LYNCH, "Netscape Moves in on Microsoft", PC Magazine, December 15, 1998, pages 60-61.	☐

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EXAMINER SIGNATURE

Examiner Signature	/Jude Jean Gilles/	Date Considered	11/28/2016

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

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	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2016-09-14
Name/Print	Joseph B. Ryan	Registration Number	37922

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

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	Examiner	Art Unit
	JUDE JEAN GILLES	2447

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
715	738, and 234	7/11/2016	JG

SEARCH NOTES		
Search Notes	Date	Examiner
EAST text and claim search; NPLs	7/11/2016	JG
EAST text and claim search; NPLs	11/27/2016	JG

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
709	217, 203, 204, 224, 232, 248, and 230	11/27/2016	JG
715	738, 736, 743, and 205	11/27/2016	JG
725	97, 44, and 87	11/27/2016	JG

	/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447

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

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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	Art Unit	2141
	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

U.S.PATENTS

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	1	YAHOO! INC., "Yahoo! Clubs: Members' Guide Help," available at http://web.archive.org/web/19990508083127/http://help.yahoo.com/help/clubs/cmemb/, archived May 8, 1999, 1 page.	☐
	2	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help," available at http://web.archive.org/web/20010417055544/http://help.yahoo.com/help/clubs/cmemb, archived April 17, 2001, 1 page.	☐
	3	YAHOO! INC., "Yahoo! Clubs: Members' Guide: Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/19990508114903/http://help.yahoo.com/help/clubs/cmemb/cmemb-07.html, archived May 8, 1999, 1 page.	☐
	4	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/20010413162015/http://help.yahoo.com/help/us/clubs/cmemb/cmemb-07.html, archived April 13, 2001, 1 page.	☐
	5	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help," available at http://web.archive.org/web/19981202150201/http://help.yahoo.com/help/clubs/cfound/, archived December 2, 1998, 1 page.	☐
	6	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help," available at http://web.archive.org/web/20010331090631/http://help.yahoo.com/help/clubs/cfound, archived March 31, 2001, 1 page.	☐
	7	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Creating a Club'," available at http://web.archive.org/web/19981203045133/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived December 3, 1998, 1 page.	☐
	8	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Creating a Club'," available at http://web.archive.org/web/20010331093528/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived March 31, 2001, 1 page.	☐
	9	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/19981205214559/http://help.yahoo.com/help/clubs/cfound/cfound-01.html, archived December 5, 1998, 1 page.	☐
	10	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/20010331094343/http://help.yahoo.com/help/us/clubs/cfound/cfound-01.html, archived March 31, 2001, 1 page.	☐
	11	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Deleting a Member'," available at http://web.archive.org/web/19981205221807/http://help.yahoo.com/help/clubs/cfound/cfound-05.html, archived December 5, 1998, 1 page.	☐

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	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

	12	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Deleting a Member'," available at http://web.archive.org/web/20010413165744/http://help.yahoo.com/help/us/clubs/cfound/cfound-05.html, archived April 13, 2001, 1 page.	☐
	13	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/19990418010954/http://help.yahoo.com/help/clubs/clubs-06.html, archived April 18, 1999, 1 page.	☐
	14	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010331073311/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived March 31, 2001, 1 page.	☐
	15	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010413155804/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived April 13, 2001, 1 page.	☐
	16	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'How Do I Join a Club?'," available at http://web.archive.org/web/19990127221107/http://help.yahoo.com/help/clubs/clubs-04.html, archived January 27, 1999, 1 page.	☐
	17	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'How Do I Join a Club?'," available at http://web.archive.org/web/20010413121150/http://help.yahoo.com/help/us/clubs/clubs-04.html, archived April 13, 2001, 1 page.	☐
	18	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'What's the Difference Between a Listed and an Unlisted Club?'," available at http://web.archive.org/web/19981201045331/http://help.yahoo.com/help/clubs/clubs-03.html, archived December 1, 1998, 1 page.	☐
	19	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'What's the Difference Between a Listed and an Unlisted Club?'," available at http://web.archive.org/web/20010331071614/http://help.yahoo.com/help/us/clubs/clubs-03.html, archived March 31, 2001, 1 page.	☐
	20	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'What's the Difference Between a Founder and a Member?'," available at http://web.archive.org/web/19990127231400/http://help.yahoo.com/help/clubs/clubs-05.html, archived January 27, 1999, 1 page.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/JUDE JEAN GILLES/	Date Considered	01/11/2017

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2141
	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

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

EFS Web 2.1.17

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	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2141
	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2016-03-29
Name/Print	Joseph B. Ryan	Registration Number	37922

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

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UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5	6600

31825 7590 01/19/2017
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JEAN GILLES, JUDE	

ART UNIT	PAPER NUMBER
2447	

NOTIFICATION DATE	DELIVERY MODE
01/19/2017	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):

nyoffice@rml-law.com
jbr@rml-law.com
wel@rml-law.com

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
14/324,698	07 July, 2014	HARPER ET AL.	1018-2 CON5

RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JUDE JEAN GILLES	
ART UNIT	PAPER
2447	20170110

DATE MAILED:

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

Commissioner for Patents

Information Disclosure Statement filed on 03/09/2016 has been considered and entered by the examiner.

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447

PTO-90C (Rev.04-03)

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

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14324698
	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2141
	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

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

FOREIGN PATENT DOCUMENTS

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

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

NON-PATENT LITERATURE DOCUMENTS

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

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	1018-2 CON5

	1	YAHOO! INC., "Yahoo! Clubs: Members' Guide Help," available at http://web.archive.org/web/19990508083127/http://help.yahoo.com/help/clubs/cmemb/, archived May 8, 1999, 1 page.	☐
	2	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help," available at http://web.archive.org/web/20010417055544/http://help.yahoo.com/help/clubs/cmemb, archived April 17, 2001, 1 page.	☐
	3	YAHOO! INC., "Yahoo! Clubs: Members' Guide: Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/19990508114903/http://help.yahoo.com/help/clubs/cmemb/cmemb-07.html, archived May 8, 1999, 1 page.	☐
	4	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/20010413162015/http://help.yahoo.com/help/us/clubs/cmemb/cmemb-07.html, archived April 13, 2001, 1 page.	☐
	5	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help," available at http://web.archive.org/web/19981202150201/http://help.yahoo.com/help/clubs/cfound/, archived December 2, 1998, 1 page.	☐
	6	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help," available at http://web.archive.org/web/20010331090631/http://help.yahoo.com/help/clubs/cfound, archived March 31, 2001, 1 page.	☐
	7	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Creating a Club'," available at http://web.archive.org/web/19981203045133/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived December 3, 1998, 1 page.	☐
	8	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Creating a Club'," available at http://web.archive.org/web/20010331093528/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived March 31, 2001, 1 page.	☐
	9	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/19981205214559/http://help.yahoo.com/help/clubs/cfound/cfound-01.html, archived December 5, 1998, 1 page.	☐
	10	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/20010331094343/http://help.yahoo.com/help/us/clubs/cfound/cfound-01.html, archived March 31, 2001, 1 page.	☐
	11	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Deleting a Member'," available at http://web.archive.org/web/19981205221807/http://help.yahoo.com/help/clubs/cfound/cfound-05.html, archived December 5, 1998, 1 page.	☐

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	12	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Deleting a Member'," available at http://web.archive.org/web/20010413165744/http://help.yahoo.com/help/us/clubs/cfound/cfound-05.html, archived April 13, 2001, 1 page.	☐
	13	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/19990418010954/http://help.yahoo.com/help/clubs/clubs-06.html, archived April 18, 1999, 1 page.	☐
	14	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010331073311/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived March 31, 2001, 1 page.	☐
	15	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010413155804/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived April 13, 2001, 1 page.	☐
	16	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'How Do I Join a Club?'," available at http://web.archive.org/web/19990127221107/http://help.yahoo.com/help/clubs/clubs-04.html, archived January 27, 1999, 1 page.	☐
	17	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'How Do I Join a Club?'," available at http://web.archive.org/web/20010413121150/http://help.yahoo.com/help/us/clubs/clubs-04.html, archived April 13, 2001, 1 page.	☐
	18	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'What's the Difference Between a Listed and an Unlisted Club?'," available at http://web.archive.org/web/19981201045331/http://help.yahoo.com/help/clubs/clubs-03.html, archived December 1, 1998, 1 page.	☐
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Examiner Signature	/JUDE JEAN GILLES/	Date Considered	01/11/2017

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EFS Web 2.1.17

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	Filing Date	2014-07-07
	First Named Inventor	David Walker Harper
	Art Unit	2141
	Examiner Name	Parmanand D. Patel
	Attorney Docket Number	1018-2 CON5

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2016-03-29
Name/Print	Joseph B. Ryan	Registration Number	37922

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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)

31825 7590 12/06/2016
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

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

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/324,698	07/07/2014	David Walker Harper	1018-2 CON5	6600

TITLE OF INVENTION: METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	03/06/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
JEAN GILLES, JUDE	2447	715-738000

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 Ryan, Mason & Lewis, 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: Engagelogic Corporation
(B) RESIDENCE: (CITY and STATE OR COUNTRY): Smithtown, New York

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

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

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☒ Payment by credit card. Form PTO-2038 is attached.
- ☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 50-0762 (enclose an extra copy of this form).

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

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

Authorized Signature /Joseph B. Ryan/ Date March 2, 2017
Typed or printed name Joseph B. Ryan Registration No. 37,922

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

Electronic Patent Application Fee Transmittal

Application Number:	14324698
Filing Date:	07-Jul-2014
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan/Nancy Crowe
Attorney Docket Number:	1018-2 CON5

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	480	480

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	480

Electronic Acknowledgement Receipt	
EFS ID:	28519522
Application Number:	14324698
International Application Number:	
Confirmation Number:	6600
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Nancy Crowe
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON5
Receipt Date:	02-MAR-2017
Filing Date:	07-JUL-2014
Time Stamp:	16:57:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$480
RAM confirmation Number	030317INTEFSW16585500
Deposit Account	500762
Authorized User	Nancy Crowe
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 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	Post Allowance Communication - Incoming	1018-2CON5_CMTS.pdf	68434 [illegible]	no	2
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	1018-2CON5_IF.pdf	103444 [illegible]	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	31119 [illegible]	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	202997		

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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Wireless Ink Corporation
Inventor(s):	David Walker Harper et al
Docket No.:	1018-2 CON5
Serial No.:	14/324,698
Filing Date:	July 7, 2014
Group:	2447
Examiner:	Jude Jean Gilles
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility over Wireless Communication Networks

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COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

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

Sir:

The following remarks are submitted in response to the Examiner's Statement of Reasons for Allowance included in the Notice of Allowability dated December 6, 2016, in the above-identified application.

REMARKS

Applicant has reviewed the Examiner's Statement of Reasons for Allowance (hereinafter "Statement") given on pages 2-3 of the Notice of Allowability.

Applicant expressly traverses the Statement to the extent that any portion thereof is intended to or has the effect of limiting the scope of the allowed claims. Applicant further traverses the Statement to the extent that any portion thereof implies that all the reasons for patentability of the allowed claims are fully enumerated.

In the Statement, the Examiner characterizes certain prior art references as being the "closest" prior art. Additionally, the Examiner characterizes certain prior art references as providing particular teachings. Applicant does not necessarily concur in these characterizations.

In the Statement, the Examiner further characterizes certain prior art references as failing to disclose certain limitations of the claims. To the extent that such concessions may be interpreted as implying that other limitations of the claims are conventional or otherwise fail to distinguish over the prior art, Applicant respectfully traverses.

Applicant respectfully requests that the above comments be made of record and placed into the application file pursuant to 37 CFR 1.104(e).

Respectfully submitted,

/Joseph B. Ryan/

Date: March 2, 2017

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/324,698	04/11/2017	9619578	1018-2 CON5	6600

31825 7590 03/22/2017

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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 315 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):

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