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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		2018-02-06
	First Named Inventor	David Walker Harper	
	Art Unit	TBA	
	Examiner Name	TBA	
	Attorney Docket Number	1018-2 CON8	

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Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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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)	2018-02-06
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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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)	2018-02-06
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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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	
Filing Date	2018-02-06
First Named Inventor	David Walker Harper
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	1018-2 CON8

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).

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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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)	2018-02-06
Name/Print	Joseph B. Ryan	Registration Number	37922

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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2018-02-06
Name/Print	Joseph B. Ryan	Registration Number	37922

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Name/Print	Joseph B. Ryan	Registration Number	37922

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	1	6836466	B1	2004-12-28	Kant et al.	

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	1	20020133448	A1	2002-09-19	McGarry et al.	

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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.	☐
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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2018-02-06
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 CON8		
Filed as Small Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY FILING FEE (ELECTRONIC FILING)	4011	1	75	75
UTILITY SEARCH FEE	2111	1	330	330
UTILITY EXAMINATION FEE	2311	1	380	380
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 (\$)				785

Electronic Acknowledgement Receipt	
EFS ID:	31716354
Application Number:	15889781
International Application Number:	
Confirmation Number:	1070
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:	80167
Filer:	Joseph Bernard Ryan
Filer Authorized By:	
Attorney Docket Number:	1018-2 CON8
Receipt Date:	06-FEB-2018
Filing Date:	
Time Stamp:	15:58:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 785
RAM confirmation Number	020718INTEFSW16002600
Deposit Account	500762
Authorized User	Lisa Vulpis
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	Application Data Sheet	1018-2CON8_ADS.pdf	1675588	no	8
			e04d89f6aab6e0aef61ad989476bca27bfb96d3c		

Warnings:

Information:

This is not an USPTO supplied ADS fillable form

2		1018-2CON8_APP.pdf	200032	yes	31
			81cb75b0a509a76e1c809d01941aa5b7dfd08d37		

Multipart Description/PDF files in .zip description

Document Description		Start	End
Specification		1	26
Claims		27	30
Abstract		31	31

Warnings:

Information:

3	Drawings-only black and white line drawings	1018-2CON8_FIGS.pdf	4975373	no	48
			f803025a53d5639da903eb26feffe8ee88ba2c21		

Warnings:

Information:

4	Oath or Declaration filed	1018-2CON8_DEC.pdf	253132	no	3
			b9efcdbe0b247704e5a6c8de1330baf4889f97		

Warnings:

Information:

5	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS1.pdf	2139091	no	19
			bd1e4df2c1bac2df4cfb6e36163e2536d5954771		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
6	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS2.pdf	1420069	no	7
			69ef24077799265cb17c74c5ba5ecef648d59519		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
7	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS3.pdf	1389588	no	7
			2d02d73cd8b309aa02c16b90aea040d5aaf0bd55a		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
8	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS4.pdf	1333010	no	7
			ef3963a65a501d29e5c91d964085484052e60fc8		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
9	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS6.pdf	1102350	no	5
			f30e66659958e5e2d2ffc61bc1fedf21a620620f		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
10	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS.pdf	563220	no	3
			d6102fc68691e6b22d85ef6df947d06718e65f78		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					

11	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS5.pdf	1436769	no	7
			345b4a8709b9de3052530d5e1bccc8e3253dccc95		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
12	Fee Worksheet (SB06)	fee-info.pdf	35241	no	2
			d0c4904f7cea95081d5aeb3be2664a059ee05ef4		
Warnings:					
Information:					
Total Files Size (in bytes):			16523463		
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. <u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. <u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. <u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.					

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1018-2 CON8
		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						

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1018-2 CON8		
		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	nyoffice@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 CON8	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	48	Suggested Figure for Publication (if any)	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

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.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON8
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.			
Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	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, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim 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" field blank.

Prior Application Status	Pending	Remove			
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
	Continuation of	15448064	2017-03-02		
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15448064	Continuation of	14324698	2014-07-07	9619578	2017-04-11
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14324698	Continuation of	14175768	2014-02-07	8825801	2014-09-02
Prior Application Status	Patented	Remove			
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14175768	Continuation of	13364950	2012-02-02	8793336	2014-07-29
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

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number		1018-2 CON8	
		Application Number			
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS				

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 or 371(c) 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. 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(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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

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

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

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1018-2 CON8
		Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is 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 State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☒ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☒ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON8
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			
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	Engagelogic Corporation		
Mailing Address Information For Applicant:			
Address 1	34 E. Main Street, Suite 392		
Address 2			
City	Smithtown	State/Province	NY
Country	US	Postal Code	11787
Phone Number		Fax Number	
Email Address			
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 substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1018-2 CON8
		Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS		

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.

☐

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 Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Joseph B. Ryan/		Date (YYYY-MM-DD)	2018-02-06
First Name	Joseph B.	Last Name	Ryan	Registration Number
37922				

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	1018-2 CON8
		Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

5 **Related Application(s)**

 The present application is continuation of U.S. Patent Application Serial No. 15/448,064 filed March 2, 2017, which is a continuation of U.S. Patent Application Serial No. 14/324,698 filed July 7, 2014 and now issued as U.S. Patent No. 9,619,578, which is a continuation of U.S. Patent Application Serial No. 14/175,768 filed February 7, 2014 and
10 now issued as U.S. Patent No. 8,825,801, which is a continuation of U.S. Patent Application Serial No. 13/364,950 filed February 2, 2012 and now issued as U.S. Patent No. 8,793,336, 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.
15 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.

20 **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

25 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
30 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.

5 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
10 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
15 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
20 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
25 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.

30 **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.

5 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.

10 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.

15 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.

20 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.

25 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

30 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.

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.

5 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
10 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
15 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
20 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
25 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
30 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
5 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
10 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
15 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
20 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
25 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
30 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
5 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-
10 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
15 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
20 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
25 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
30 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
5 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
10 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
15 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
20 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
25 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
30 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.

- 5 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.

- 15 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.

- 25 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.

- 30 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.

5 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.

15 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.

30 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.

5 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 15 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 20 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, 25 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, 30 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.

5 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.

10 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
15 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
20 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.

25 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.

30 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
5 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,
10 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
15 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
20 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
25 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
30 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.

5 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.

10 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.

15 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.

25 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.

30 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.

5 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.

10 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
15 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
20 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
25 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
30 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
5 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,
10 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.
15 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
20 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
25 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
30 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.

5 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
10 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
15 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
20 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
25 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.

30 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.

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 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
5 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
10 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
15 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
20 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.

25 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
30 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 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
5 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
10 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
15 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
20 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
25 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
30 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 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

1018-2 CON8

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 manage personalized messaging content from any type of user device running any operating
5 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
 - 5 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
 - 10 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
 - 15 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
- 20 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:
 - 25 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.
- 30 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 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
10 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
15 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.

20

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
25 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.

30

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.

5 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.

10 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.

15 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
20 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
25 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;
30 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.

5

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:

10

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:

15

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

20

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
5 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
10 functionality of said at least one wireless network.

1/48

FIG. 1A

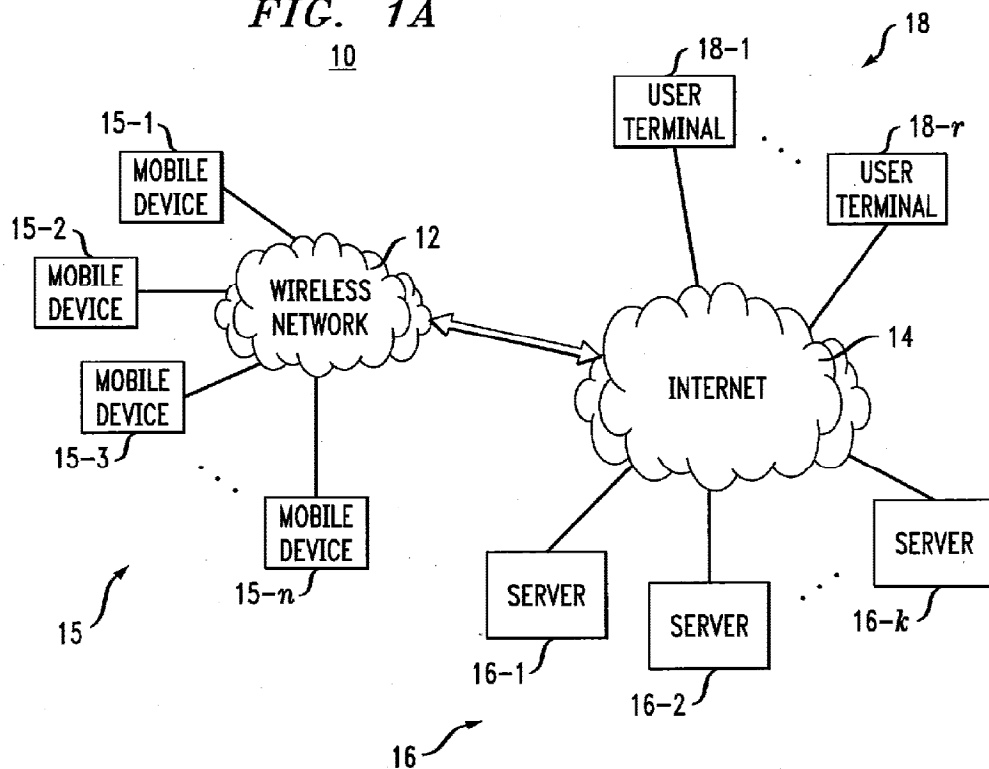
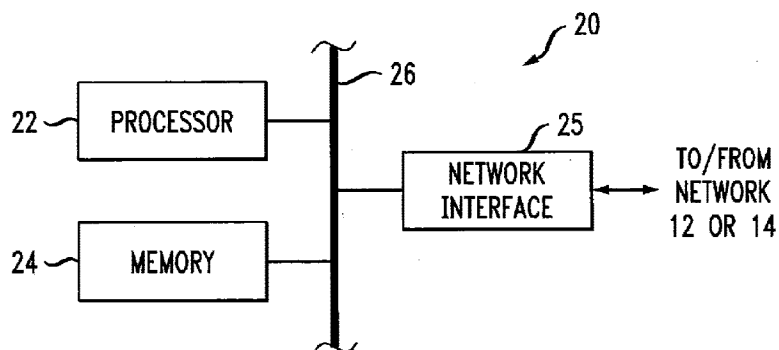
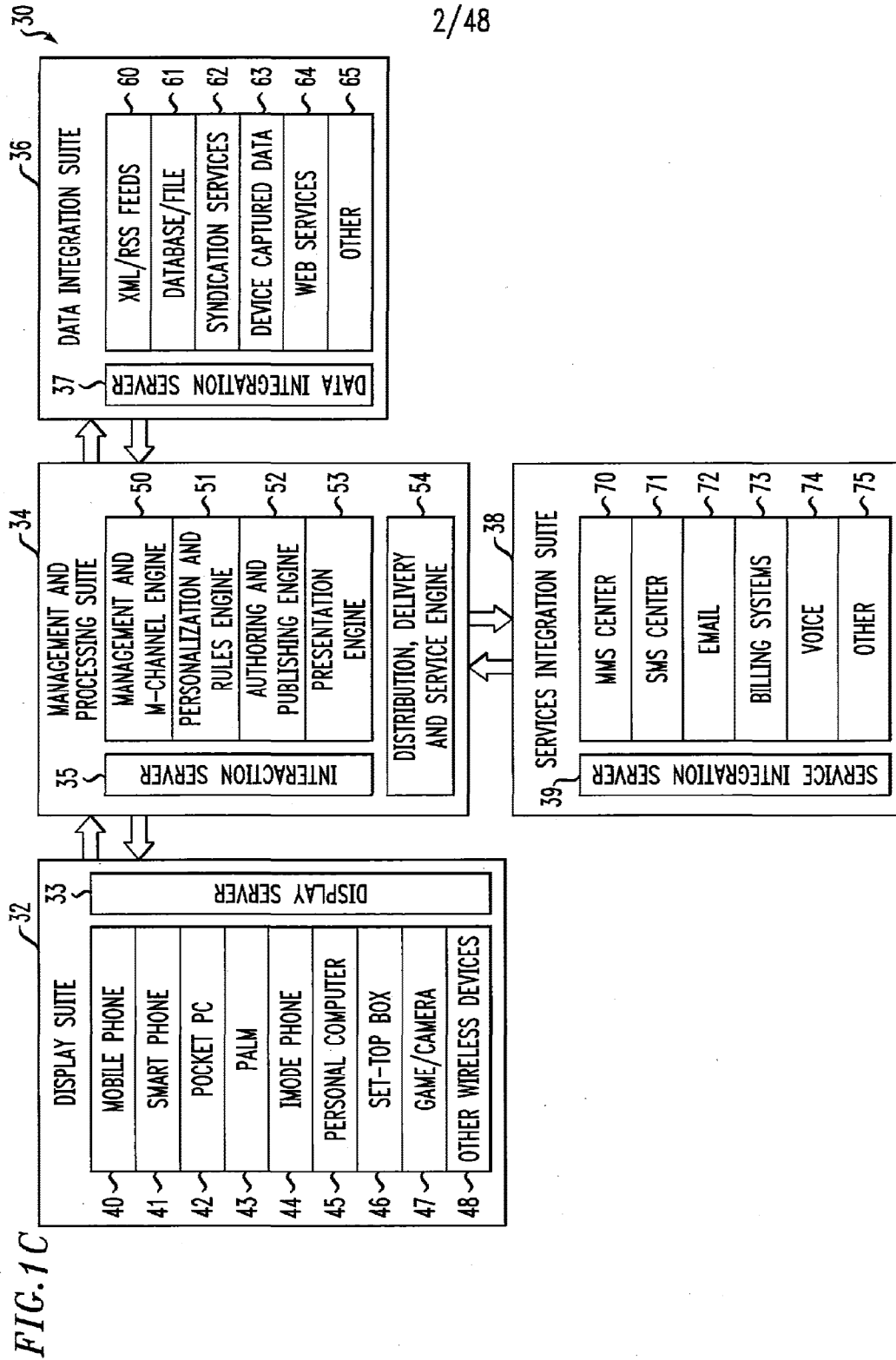


FIG. 1B

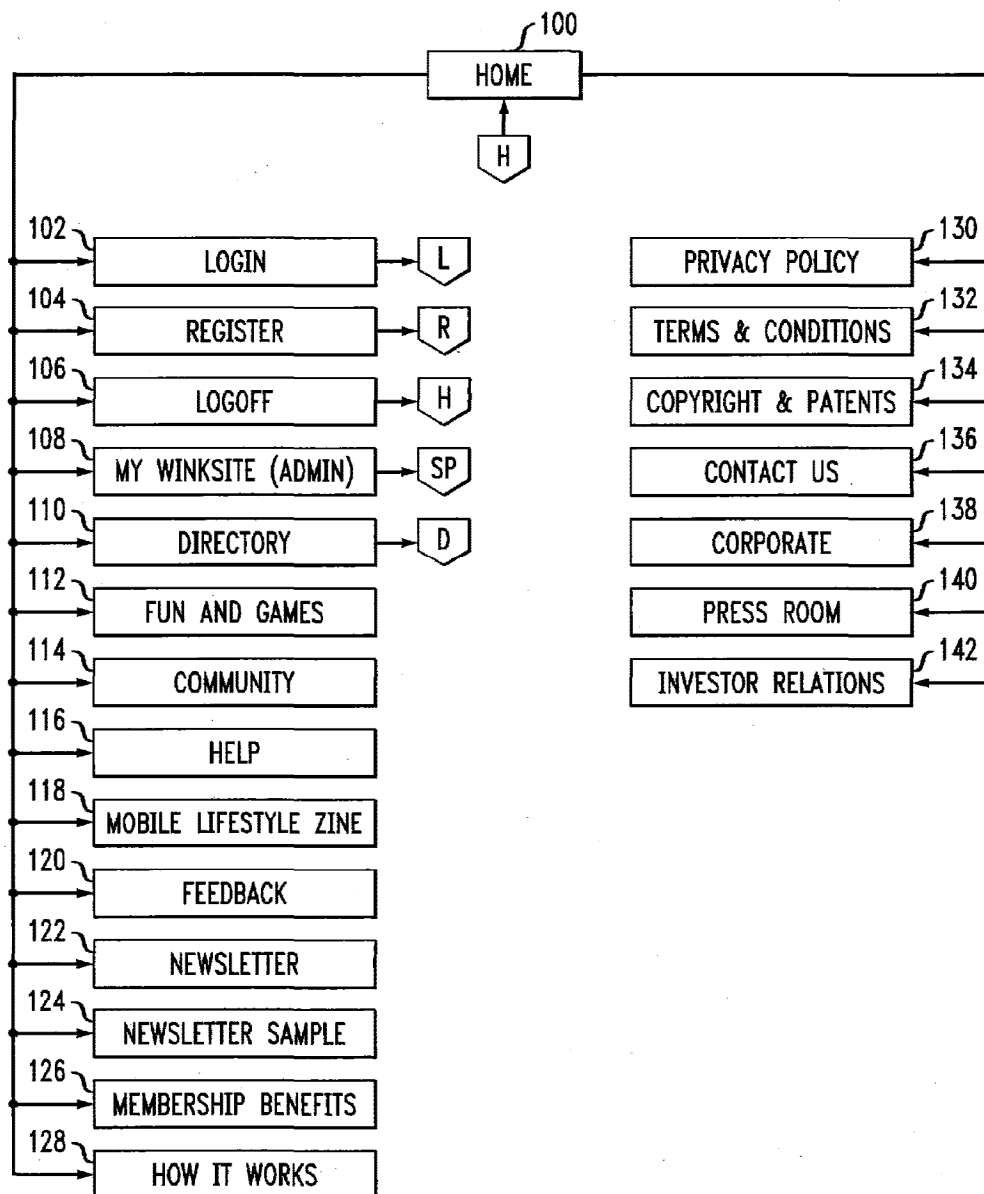


2/48



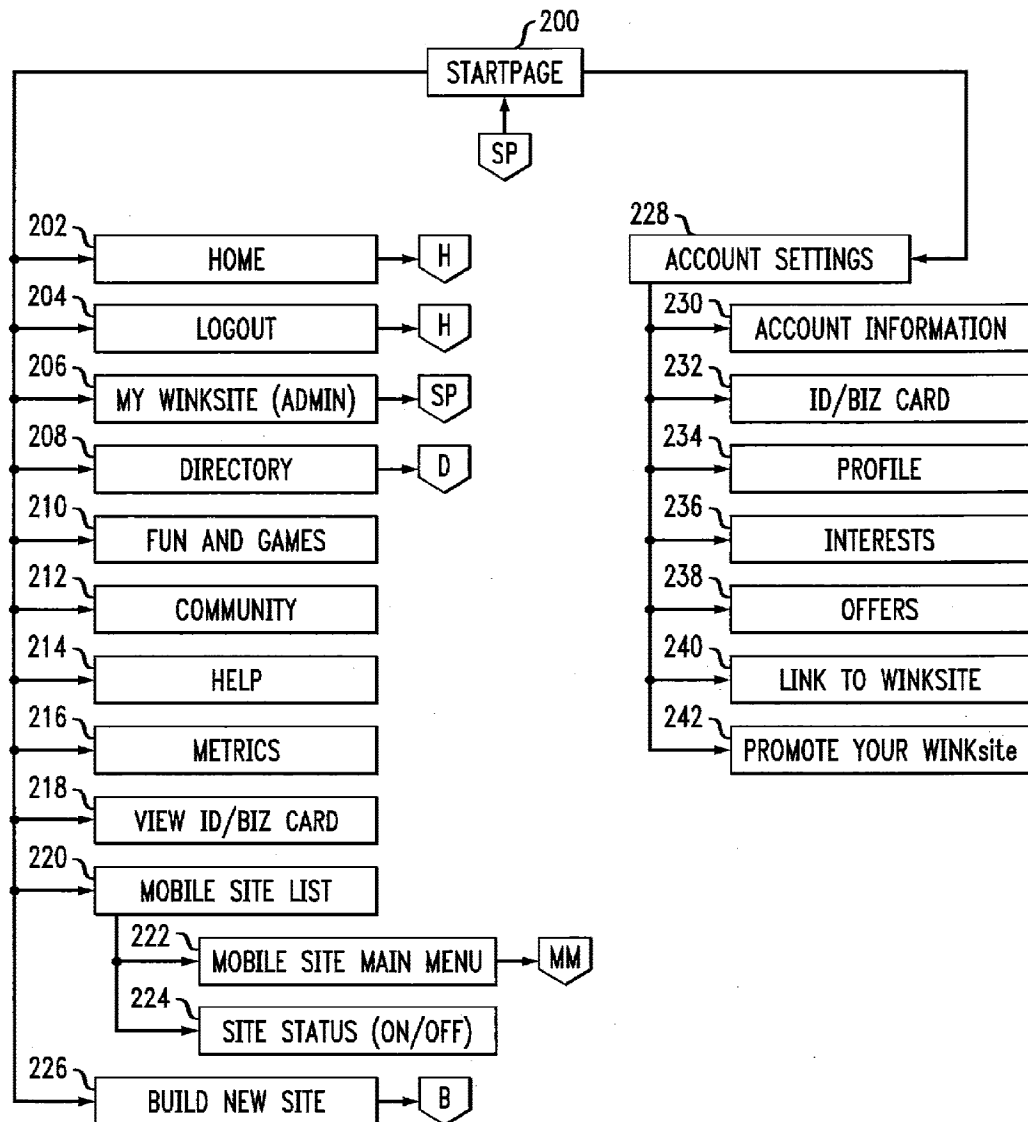
3/48

FIG. 1D



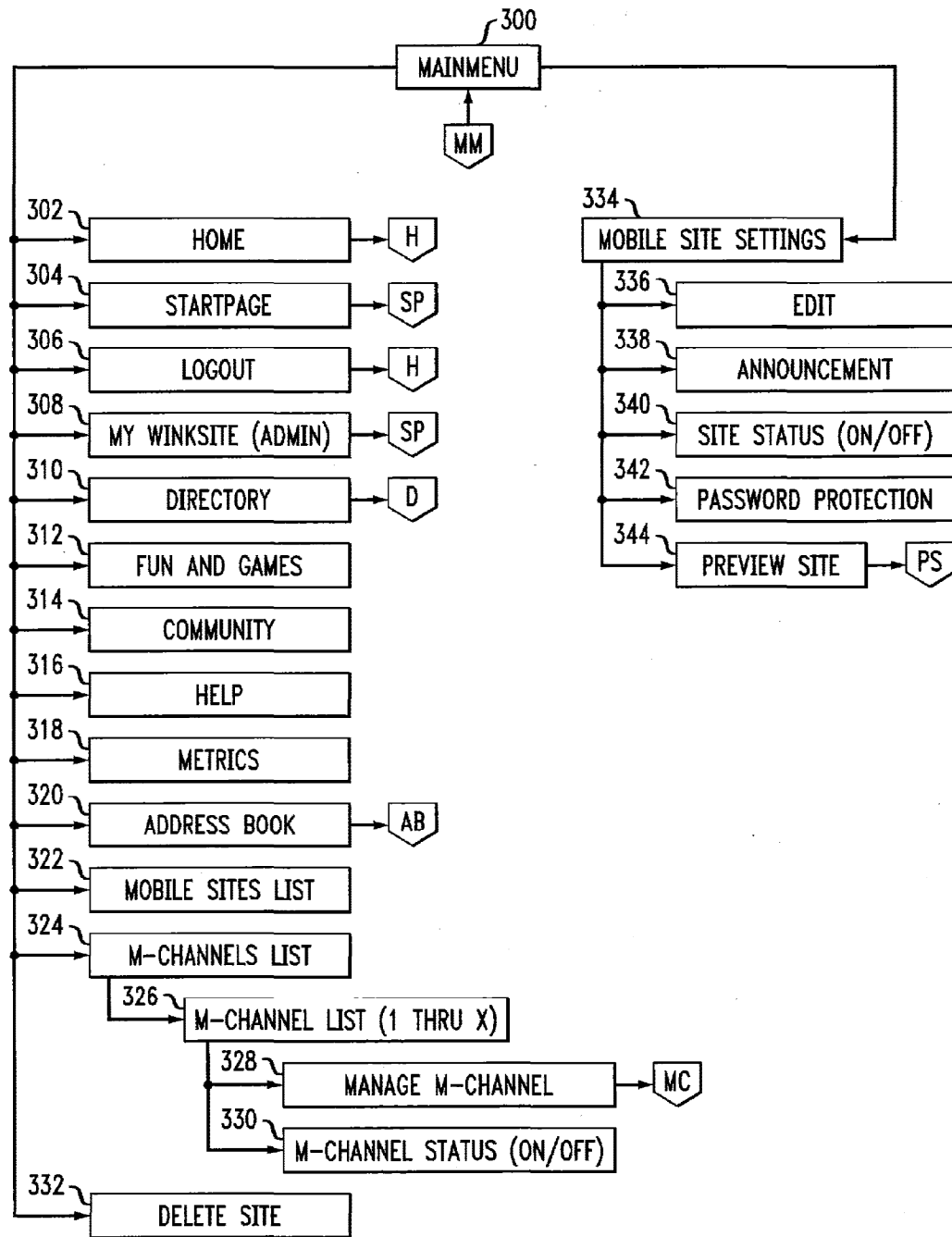
4/48

FIG. 2



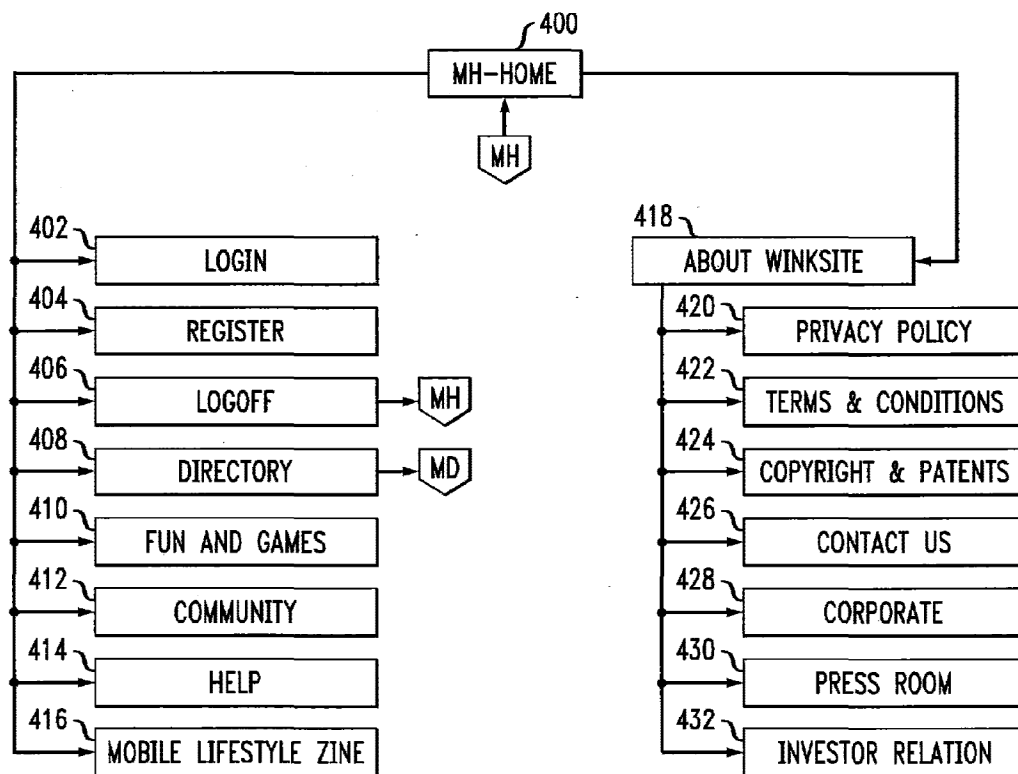
5/48

FIG. 3



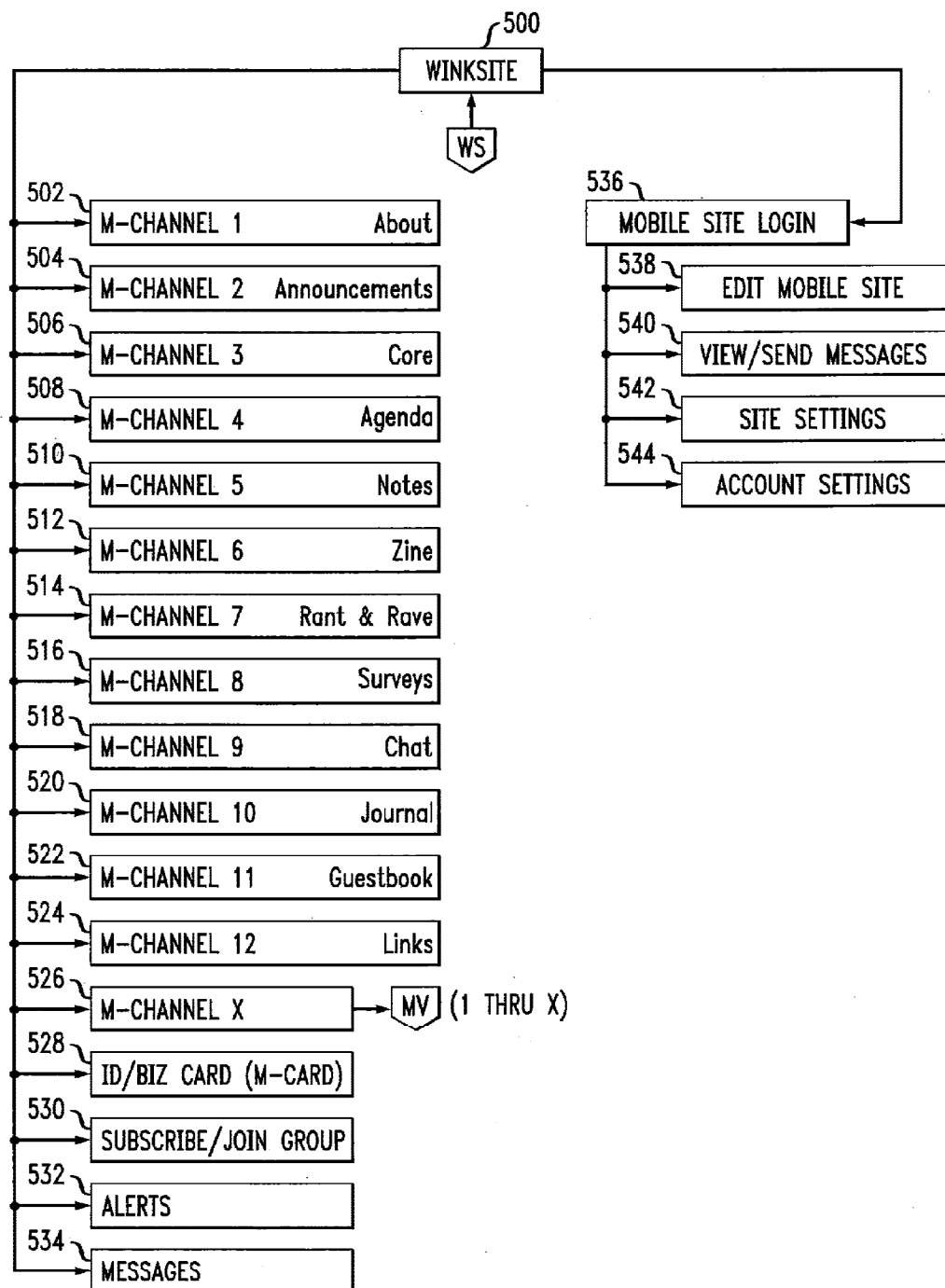
6/48

FIG. 4



7/48

FIG. 5



8/48

FIG. 6

The screenshot displays the WINKSITE homepage layout. At the top, a navigation bar includes links for HOME, MY WINKSITE, DIRECTORY, FUN & GAMES, and HELP. Below this, the main content area is divided into several sections. On the left, there is a 'WEB SITE LOGO' placeholder and an 'Account Login' section with fields for Username and Password, and buttons for 'Start in', 'LOGIN', and 'Remember me'. To the right of the login section is a 'WELCOME TO WINKSITE' message, followed by a 'SITE ADVERTISEMENT AND/OR CONTENT PROMOTION' box. Below these are sections for 'MOBILE LIFESTYLE MAGAZINE' and 'BUILD. EXPLORE. COMMUNICATE.' with a 'FEEDBACK' form. At the bottom right, there is a 'NEWSLETTER' sign-up form with fields for 'YOUR NAME' and 'YOUR E-MAIL', and a 'SUBMIT' button. The footer contains copyright information and links for 'Privacy Policy', 'Terms & Conditions', 'Copyright & Patents', 'Contact Us', 'About Corporate Information', 'Press Room', and 'Investor Relations'. Various reference numerals are placed throughout the image to identify specific elements: 602 for the logo, 604 for the username field, 606 for the password field, 610 for the login button, 612 for the forgot password link, 614 for the remember me checkbox, 616 for the not a member link, 618 for the banner area, 620 for the banner text, 638 for the site branding section, 642 for the feedback form, and 646, 660, 654, 648, 656, 650, 658, 652, 644 for the footer area.

602 WEB SITE LOGO

Account Login

If you already have an account with WINKSite, login below:

Username 604

Password 606

Start in 610

LOGIN 610

Remember me What's this? 614

Forgot your password? 612

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

BANNER 618

BANNER 618

BANNER 620

BANNER 620

638

SITE BRANDING & PROMOTIONAL COPY

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.

SITE ADVERTISEMENT AND/OR CONTENT PROMOTION

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.

MOBILE LIFESTYLE MAGAZINE 640

BUILD. EXPLORE. COMMUNICATE.

FEEDBACK :: WHAT DO YOU THINK ABOUT WINKSITE? 642

SEND

NEWSLETTER :: KEEP UP ON THE LATEST | View Sample

YOUR NAME

YOUR E-MAIL

SUBMIT

Home | My WINKSite | Directory | Fun & Games | Help

Privacy Policy | Terms & Conditions | Copyright & Patents | Contact Us

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About Corporate Information | Press Room | Investor Relations

646 660 654 648 656 650 658 652 644

9/48

FIG. 7

700

704

706

708

LOGOUT

WEB SITE LOGO

ADMINISTRATION

MY WINKSITE ACCOUNT

702

USERNAME: DD Mon YYYY 00:00 AM/PM

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

Welcome username. If you are not username, click here | Logout

HOME MY WINKSITE DIRECTORY FUN & GAMES HELP

Start Page

START PAGE

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

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10/48

FIG. 8

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11/48

FIG. 9a

LOGOUT

WEB SITE LOGO

ADMINISTRATION

Start Page > Main Menu (ancillary mobile site name) > M-Channel

HOME MY WINKSITE DIRECTORY FUN & GAMES HELP

Start Page > Main Menu (ancillary mobile site name) > M-Channel

M-CHANNEL NAME

900

MAIN MENU

ADD AN ITEM

902

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

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[illegible]

13/48

FIG. 10

LOGOUT

WEB SITE LOGO

ADMINISTRATION

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

M-CHANNEL NAME # ADD AN ENTRY

SAVE CANCEL

CONTENT

Date: Time: Title: Abstract: Content:

RELATED ACTION

Action: Timing:

RELATED MEDIA

Media: Title: Browse..

PUBLISHING OPTIONS

Published: Publication Date: Expiration Date: Time Frame:

SAVE CANCEL

Start Page > Main Menu (ancillary mobile site name) > M-Channel > Add an Entry

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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	
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	erase
contact's last name	contact's first name	email	view	edit	disabled	erase
contact's last name	contact's first name	email	view	edit	disabled	erase
contact's last name	contact's first name	email	view	edit	enabled	erase
contact's last name	contact's first name	email	view	edit	enabled	erase
contact's last name	contact's first name	email	view	edit	enabled	erase
contact's last name	contact's first name	email	view	edit	disabled	erase
contact's last name	contact's first name	email	view	edit	disabled	erase
contact's last name	contact's first name	email	view	edit	enabled	erase

Pages: 1

[Main Menu](#) > General Inquiry List

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15/48

FIG. 12

LCGOUT

WEB SITE LOGO

ADMINISTRATION

HELP

Welcome username. If you are not username, click here | Logout

HOME MY WINKSITE DIRECTORY FUN & GAMES HELP

Main Menu > Form

>> 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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16/48

FIG. 13

LOGOUT

WEB SITE LOGO

MOBILE SITE BUILDER

NAME & DESCRIBE YOUR SITE

Welcome username. If you are not username, [click here](#) | [Logout](#)

HOME

MY WINKSITE

DIRECTORY

FUN & GAMES

HELP

Main Menu > Add New Site

>> MOBILE SITE INFORMATION

SAVE CANCEL

Title/Name of Mobile Site:
Enter mobile site name. Use at least 3 characters (maximum 24 characters). (required)

URL of Mobile Site (1-12 chars):
<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.

SAVE CANCEL

255 characters remaining

Start Page > Add New Site

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17/48

FIG. 14

WEB SITE LOGO

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](#)

Welcome username. If you are not username, [click here](#) | [Logout](#)

HOME MY WINKSITE DIRECTORY FUN & GAMES HELP

Start Page > Account Information

>> 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

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18/48

FIG. 15

LOGOUT

WEB SITE LOGO

DIRECTORY

DIRECT ACCESS: GO TO ...

☐ JUMP TO MEMBER'S M-CARD

ENTER MEMBER'S USERNAME

FIND

Welcome username. If you are not username, [click here](#) | [Logout](#)

HOME

MY WINKSITE

DIRECTORY

FUN & GAMES

HELP

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

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About | Corporate Information | Press Room | Investors Relations

19/48

FIG. 16

The screenshot displays a web application interface. At the top left is a 'LOGOUT' button. Below it is a 'WEB SITE LOGO' placeholder. To the right of the logo is a 'HELP' button. The main navigation bar includes 'HOME', 'MY WINKSITE', 'DIRECTORY', 'FUN & GAMES', and 'HELP'. Below this is a breadcrumb trail: 'Main Menu > General Inquiry Auto Response Form'. The central content area is titled 'General Inquiry Auto Response Form' and contains three sections: 'SCREEN AUTO RESPONSE', 'EMAIL AUTO RESPONSE', and 'Attachment:'. Each section has a 'Message:' label and a large text input area. The 'EMAIL AUTO RESPONSE' section also includes fields for 'Sender Name:', 'Sender E-Mail:', and 'Subject:'. At the bottom of each section are 'SAVE' and 'CANCEL' buttons. A 'Brows...' button is located at the bottom right of the 'Attachment:' section. The footer contains the text 'Main Menu > General Inquiry Auto Response Form'.

Welcome username. If you are not username, [click here](#) | [Logout](#)

[HOME](#) [MY WINKSITE](#) [DIRECTORY](#) [FUN & GAMES](#) [HELP](#)

Main Menu > General Inquiry Auto Response Form

>> General Inquiry Auto Response Form

SCREEN AUTO RESPONSE

Message:

SAVE CANCEL

EMAIL AUTO RESPONSE

Sender Name:

Sender E-Mail:

Subject:

Message:

Attachment:

currently:

SAVE CANCEL

Brows...

Main Menu > General Inquiry Auto Response Form

20/48

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! Messenger ID: user's Yahoo! Messenger 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

21/48

FIG. 17b

The screenshot shows a Netscape browser window with the title bar "Netscape:WINKsite :: The Mobile Site Builder (tm)". The address bar contains "M-CARD/ID/BUSINESS CARD". The main content area is divided into several sections:

- A "username (first name, last name, country)" field with a "mobile site list" button to its right.
- An "ancillary mobile site" section with a "me: | view site" link.
- A "Mobile URL:" section with the text "http://www.domainname.com/username/directory (Site Status: Online)".
- A "Site Profile:" section with the text "Site profile goes here."
- A "Featuring:" section with the text "Activated module/M-Channel list goes here with links to presentation view."

At the bottom right of the window, it says "POWERED BY LINK site".

22/48

FIG. 18

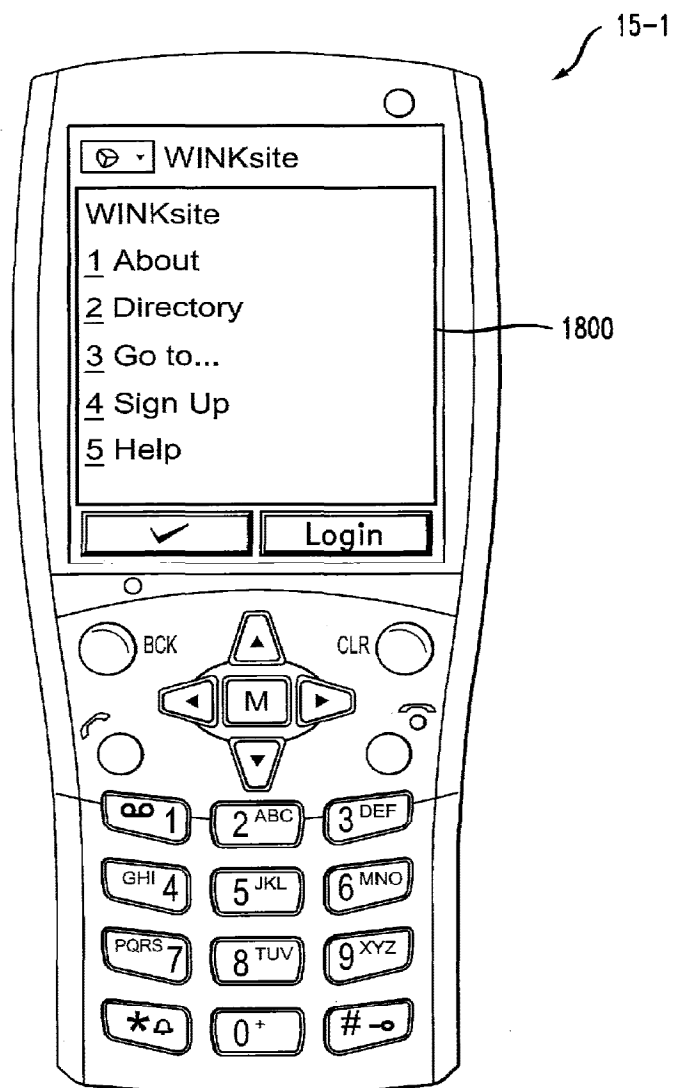
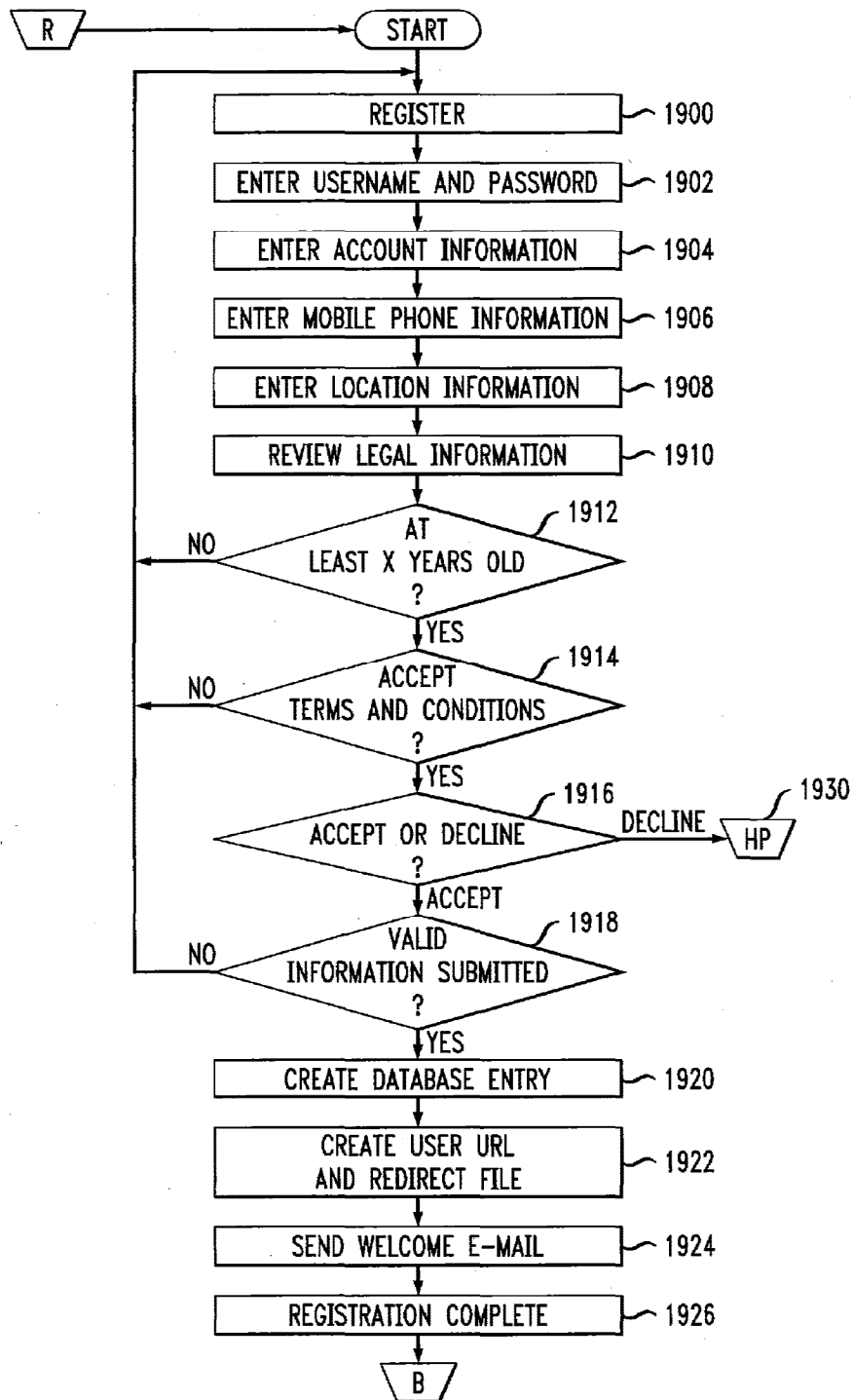


FIG. 19 23/48



24/48

FIG. 20

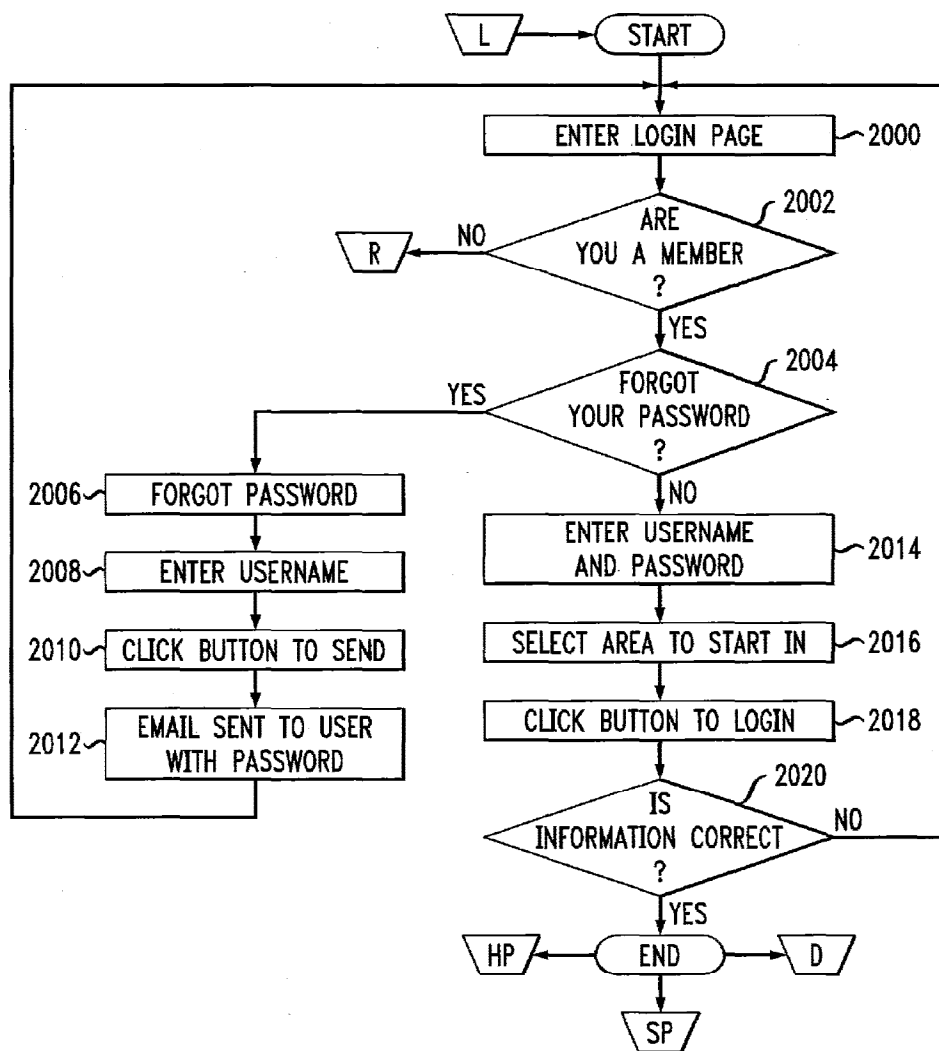
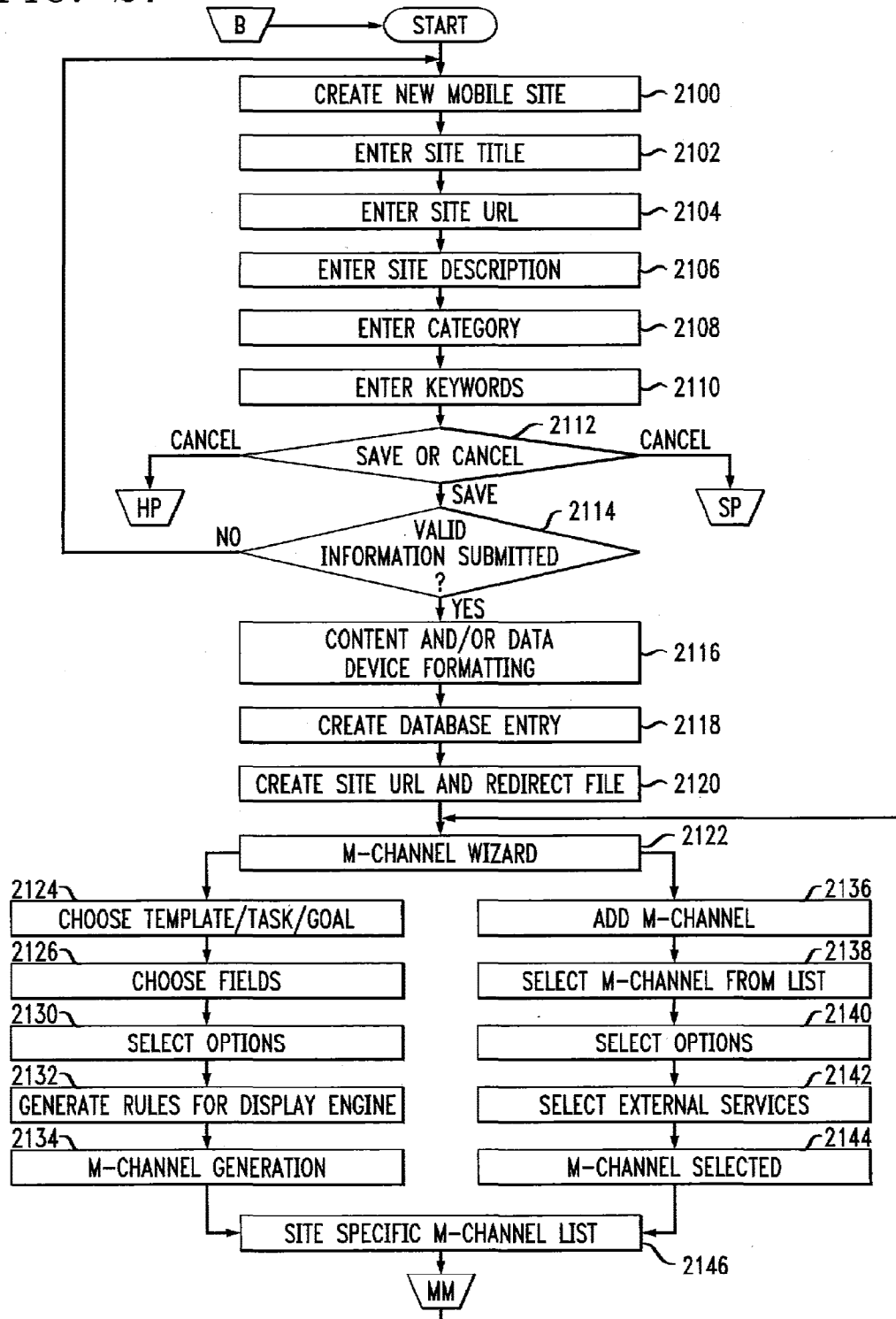


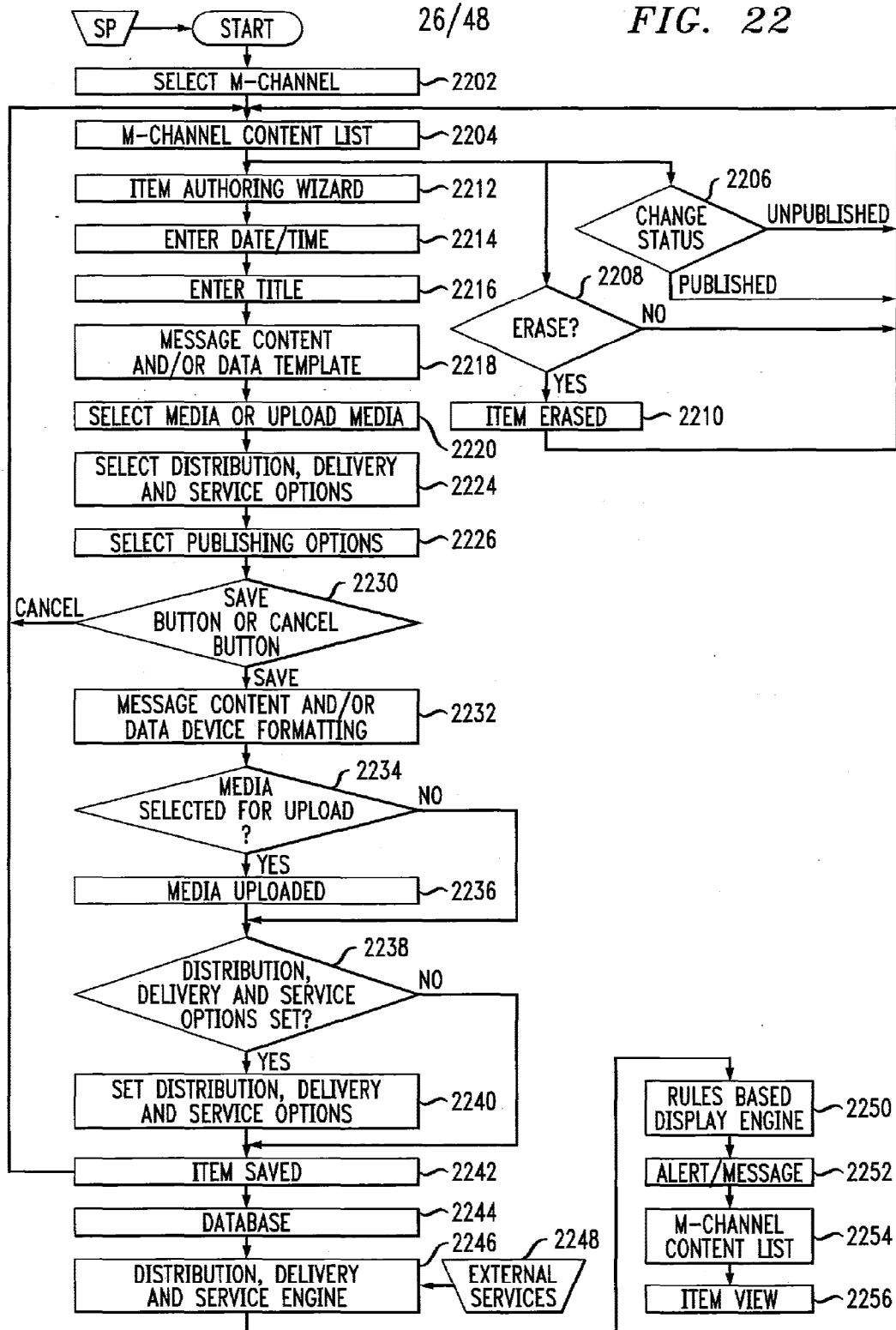
FIG. 21

25/48



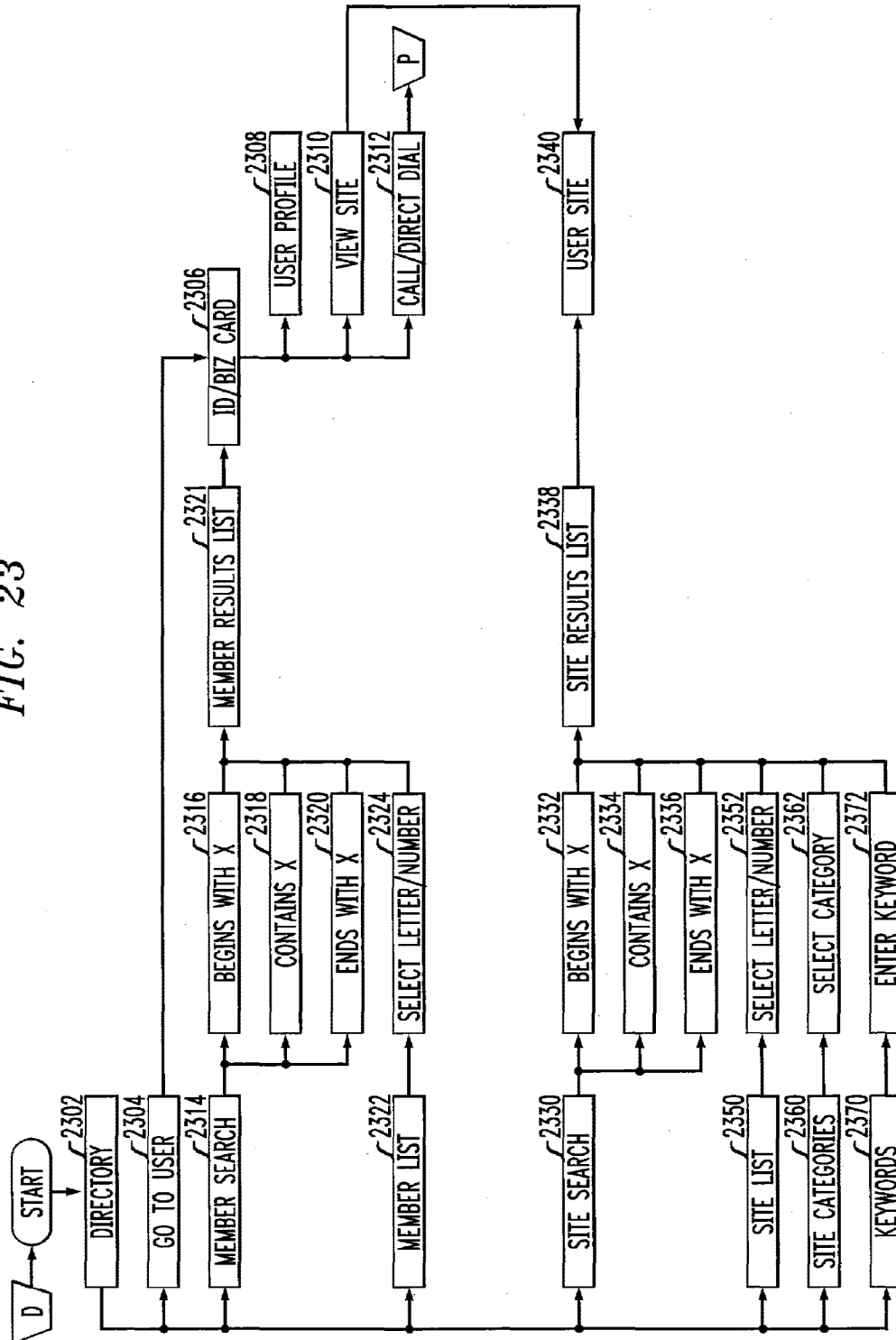
26/48

FIG. 22



27/48

FIG. 23



28/48

FIG. 24a

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

29/48

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	

30/48

FIG. 24c

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

31/48

FIG. 24d

WINKsite	
MEMBER SEARCH 1 Begins with (OK) 2 Contains (OK) 3 Ends with (OK)	
-----	DONE

WINKsite	
MEMBER SEARCH <i>Begins with:/Contains:/Ends with:</i> _____	
Find	

WINKsite	
MEMBERS <i>B/C/E smith</i> 1-9 of 134 1 Blacksmith (OK) 2 Smithsonian (OK) ... 8 Smith's World (OK) 9 Will Smith (OK) <i>More... (More)</i>	
-----	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) <i>More... (More)</i>	
-----	Done

32/48

FIG. 24e

WINKsite	
SITE SEARCH 1 Begins with (OK) 2 Contains (OK) 3 Ends with (OK)	
-----	DONE

WINKsite	
SITE SEARCH <i>Begins with:/Contains:/Ends with:</i> _____	
Find	

WINKsite	
SITES <i>B/C/E world</i> 1-9 of 145 1 Bill's World (Go) 2 Dave's World (Go) ... 8 Jay's World (Go) 9 Pat's World (Go) <i>More... (More)</i>	
-----	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) <i>More... (More)</i>	
-----	Done

33/48

FIG. 24f

WINKsite	
GO TO... <i>No Such User or User Has No Sites</i> type username: 	
OK	

WINKsite	
MCARD jay 1 Sites (OK) 2 Profile (OK) 3 6315551234 (Call)	
-----	Done

WINKsite	
jay Sites: 24 1 Go Club (Go) 2 ☐ Wap Club (Go) ... 8 This Club (Go) 9 ☐ That Club (Go) More... (More)	
-----	Done

WINKsite	
MCARD jay Profile goes here --- Last login: Wed Mar 6, 2002 09:48AM --- Member since: Mon Oct 1, 2001 12:00AM	
Done	

FIG. 24g

WINKsite	
PRIVATE SITE: <i>Wrong Password</i> Type password: 	
OK	

34/48

FIG. 25a

My WINKsite		My WINKsite	
Go Club 1 About (OK) 2 Announcements (OK) 3 Core (OK) 4 Agenda (OK) 5 Notes (OK) 6 Zine (OK) 7 Rant&Rave (OK) 8 Surveys (OK) 9 Chat (OK) More... (More)		Go Club Page 2 1 Journal (OK) 2 Guestbook (OK) 3 Links (OK) 4 M-Card (OK) 5 Logout (OK)	
----	Page2/	----	Page1

FIG. 25b

My WINKsite	
ABOUT This is the site description text.	
Main	

35/48

FIG. 25c

My WINKsite		My WINKsite	
ANNOUNCEMENTS 1-9 of 126 1 Jan11@12:34PM (View) 2 Jan09@09:34AM (View) ... 8 Dec25@07:57PM (View) 9 Dec23@01:09AM (View) More... (More)		ANNOUNCEMENTS Tue.8 Jan 2002 01:44PM This is an example announcement.	
-----	Main	Done	

FIG. 25d

My WINKsite		My WINKsite	
CORE 1-9 of 74 1 Services (OK) 2 Products (OK) ... 8 Rebates (OK) 9 Coupons (OK) More... (More)		CORE Services Page 1 of 5 This is the content for this item, which spans many pages, and can go on and on as much as needed... Last Updated: Mon.11 Feb 2002 09:45AM ---End--- 1 More... (More) *NOTE: date/time on last page only *NOTE: "End" only on last pg. *NOTE: "More..." not on last pg.	
-----	Main	Done	

36/48

FIG. 25e

My WINKsite	My WINKsite	My WINKsite
AGENDA 1 Today:11 2 Tomorrow:4 3 Future:9 4 Past:23	AGENDA: TODAY/TM...RW/FUT...PAST 1-9 of 11 11Jan: Event A (OK) 207Jan: Event B (OK) ... 801Jan: Event H (OK) 925Dec: Event I (OK) More... (More)	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
Main	Done	

FIG. 25f

My WINKsite		Done
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.		

My WINKsite		Done
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)		

My WINKsite		Main
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)		

38/48

My WINKsite NOTES Type name: Type note:	Done
My WINKsite Confirm logout	YesNo
My WINKsite NOTES Name A: Note Content Tue.5 Mar 2002 12:34PM	Skip/DoneDone/
My WINKsite loading please wait	
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	

FIG. 25g

39/48

FIG. 25h

My WINKsite	My WINKsite	My WINKsite	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)	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)	RANT&RAVE My Topic Fri:11 Jan 2002 1 View Comments (OK) 2 Add Comment (OK)	RANT&RAVE Name A: Comment A Mon:11 Jan 2002 02:18PM
-----	-----	-----	Skip/Done
Main	Done	Done	Done/

My WINKsite	My WINKsite
RANT&RAVE Type name: Type comment:	loading please wait
OK	

40/48

FIG. 25i

My WINKsite SURVEYS 1 Open:13 2 Closed:21	My WINKsite SURVEYS: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)	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)
----	----	----
Main	Done	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)	My WINKsite SURVEYS Survey Question A with nowrap? 11% Choice 1 09% Choice 2 ... 00% Choice 8 10% Choice 9 Votes:250	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	----
Cancell	Done	Done

FIG. 25i cont.

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

42/48

My WINKsite

CHAT
Type alias:

OK

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.

AgreeCancel

My WINKsite

[Write Msg] (Msg)
* IDLE X SECS/MINS/HR/DAYS/WKS
=>alias1:text 1
=>alias2:text 2
...
=>aliasn:text n
[Write Msg] (Msg)

MsgMenu

My WINKsite

Quick Text
1 Emotions
2 Phrases

Done

My WINKsite

1 Quick text
2 Write msg
3 Exit chat

Done

My WINKsite

1 :) Wink
2 :) Happy
3 :D Laugh
4 :(Sad
5 :O Surprised
6 :| Confused
7 :| Oh well
8 8) Cool
9 x Kiss
@} :- Rose

Done

FIG. 25j

43/48

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

44/48

FIG. 25k

My WINKsite		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)		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.	
-----	Main	Done	

45/48

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

FIG. 251

FIG. 25m

My WINKsite	
LINKS	
1-9 of 126	
1 Link Name A (Go)	
2 Link Name B (Go)	
...	
8 Link Name H (Go)	
9 Link Name I (Go)	
More... (More)	
-----	Main

FIG. 25n

My WINKsite	
M-CARD	
jay	
1 Sites (OK)	
2 Profile (OK)	
3 Send e-mail (OK)	
4 6316642010 (Call)	
-----	Main

My WINKsite	
jay	
Sites: 24	
1 Go Club (Go)	
2 Wap Club (Go)	
...	
8 This Club (Go)	
9 That Club (Go)	
More.. (More)	
-----	Done

My WINKsite	
M-CARD	
jay	
Profile goes here	

Last login:	
Wed Mar 6, 2002	
09:48AM	

Member since:	
Mon Oct 1, 2001	
12:00AM	
-----	Done

My WINKsite E-MAIL FORM Your Name: _____	My WINKsite Your e-mail: (required) _____	My WINKsite Provide callback number?
OK	OK	Yes No

My WINKsite Type callback number: _____	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	My WINKsite Type subject: _____
OK	OK	OK

FIG. 250

FIG. 250 cont.

My WINKsite		
Type message:		
OK		

My WINKsite		
Review & Edit: 1 Name: Jay (Edit) 2 Email: jay@email.com (Edit) 3 Phone: 631 555 1234 (Edit) 4 Subj: Hello (Edit) 5 Msg: How are you doing? (Edit)		
Send		

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

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.

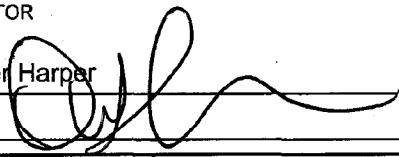
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

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

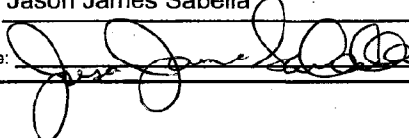
Signature: 

Date: 9/25/2014

Docket No. 1018-2 CON5

Outside Counsel Docket No. 1018-2 CON5

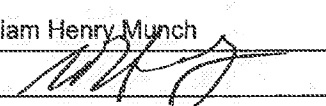
**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
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 <u>14/324,698</u> filed on <u>July 7, 2014</u> 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: <u>Jason James Sabella</u> Date: <u>9/25/2014</u> 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)**

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 <u>14/324,698</u>	
filed on <u>July 7, 2014</u>	
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: <u>William Henry Munch</u>	Date: <u>10/1/14</u>
Signature: <u></u>	