Doc Code: TRACK1.REQ
Document Description: TrackOne Request

PTO/AIA/424 (03-13)

CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION UNDER 37 CFR 1.102(e) (Page 1 of 1)

First Named Inventor:	David W. Harper	Nonprovisional Application Number (if known):	
Title of Invention:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1), the prioritized examination fee set forth in 37 CFR 1.17(c), and if not already paid, the publication fee set forth in 37 CFR 1.18(d) have been filed with the request. The basic filing fee, search fee, examination fee, and any required excess claims and application size fees are filed with the request or have been already been paid.
2. The application contains or is amended to contain no more than four independent claims and no more than thirty total claims, and no multiple dependent claims.
3. The applicable box is checked below:

I. ☑ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.

---OR---

(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.

ii. The executed inventor's oath or declaration is filed with the application. (37 CFR 1.63 and 1.64)

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

i. A request for continued examination has been filed with, or prior to, this form.
ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature	/Joseph B. Ryan/	Date	February 7, 2014
Name (Print/Typed)	Joseph B. Ryan	Practitioner Registration Number	37,922

Note: *This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.**

☐ *Total of _____ forms are submitted.

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 CON4
	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

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Prefix	Given Name	Middle Name	Family Name	Suffix
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Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

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Prefix	Given Name	Middle Name	Family Name	Suffix
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Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

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Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
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Residence Information (Select One) ◉ US Residency ◯ Non US Residency ◯ Active US Military Service

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON4
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Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

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Postal Code	33606	**Country**	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	31825		
Email Address	jbr@rml-law.com	Add Email	Remove Email

Application Information:

Title of the Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS		
Attorney Docket Number	1018-2 CON4	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	48	**Suggested Figure for Publication (if any)**	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Customer Number	31825

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	13364950	2012-02-02
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13364950	Continuation of	13027519	2011-02-15
Prior Application Status	Patented		Remove

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

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

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

Foreign Priority Information:

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

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.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	1018-2 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

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

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

Authorization to Permit Access:

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

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

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

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

Applicant Information:

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

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 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Applicant 1

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

Clear

○ Assignee ○ Legal Representative under 35 U.S.C. 117 ○ Joint Inventor

○ Person to whom the inventor is obligated to assign. ○ Person who shows sufficient proprietary interest

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

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information For Applicant:

Address 1			
Address 2			
City		**State/Province**	
Country		Postal Code	
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 subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Assignee 1

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

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 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

If the Assignee or Non-Applicant Assignee is an Organization check here. ☒			
Organization Name	Wireless Ink Corporation		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	P.O. Box 261		
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City	East Islip	**State/Province**	NY
Country i	US	Postal Code	11730
Phone Number	631-750-2785	Fax Number	
Email Address	dharper@wirelessink.com		
Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.			

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.					
Signature	/Joseph B. Ryan/			Date (YYYY-MM-DD)	2014-02-07
First Name	Joseph B.	Last Name	Ryan	Registration Number	37922
Additional Signature may be generated within this form by selecting the Add button.					

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

Related Application(s)

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

Field of the Invention

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

Background of the Invention

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

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

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

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

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

Summary of the Invention

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

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

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

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

Brief Description of the Drawings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Detailed Description

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Claims

What is claimed is:

1. A method comprising:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

17. The method of claim 1 wherein the mobile information channel comprises a chat channel facilitating interaction between the first user and the plurality of additional users.

18. The method of claim 1 wherein the mobile information channel is associated with an entertainment-related entity.

19. The method of claim 18 wherein the entertainment-related entity comprises at least one of a television program, a movie and a music artist.

20. The method of claim 1 wherein the mobile information channel is associated with a mobile device application.

21. The method of claim 20 wherein the mobile device application comprises a personalized content application.

22. A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs for use in managing information content in a network-based communication system, wherein said executable program code when

executed by a processing element of the communication system implements the steps of the method of claim 1.

23. An apparatus comprising:

a processing element comprising a processor coupled to a memory;

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

the processing element being configured to:

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

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

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

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

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

24. The apparatus of claim 23 wherein the processing element comprises at least one server accessible over the Internet via a network interface.

25. A network-based communication system, comprising:

a plurality of servers configured to communicate over a network;

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

wherein said at least one server is configured to:

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

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

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

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

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

Abstract

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

FIG. 1A

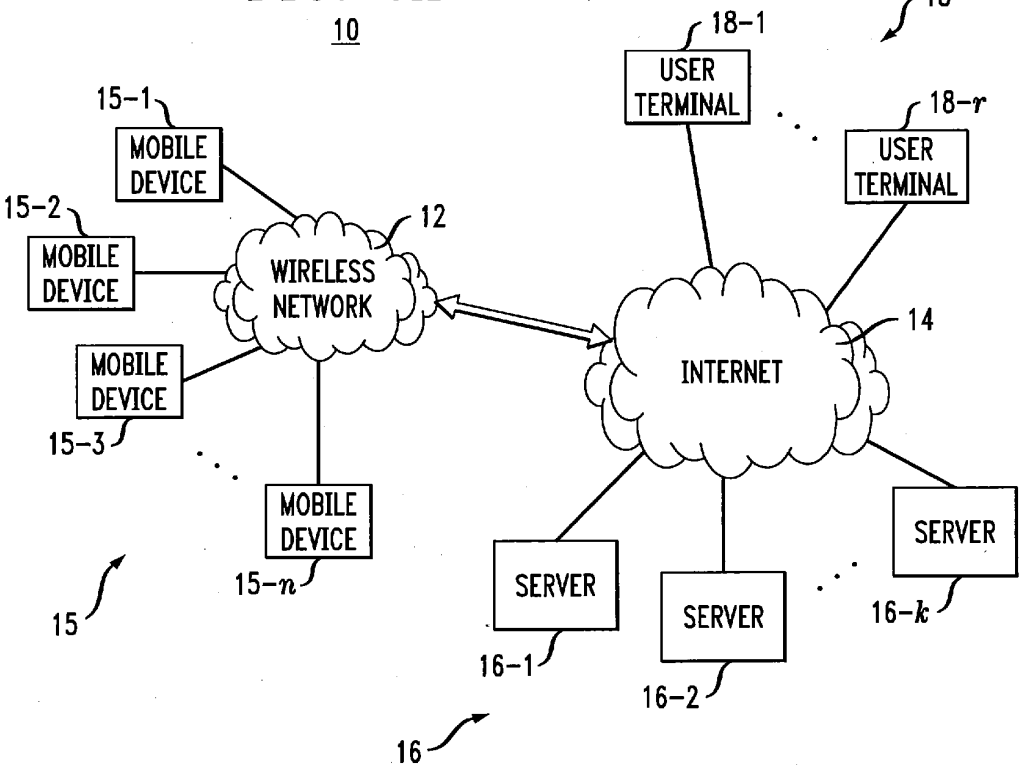
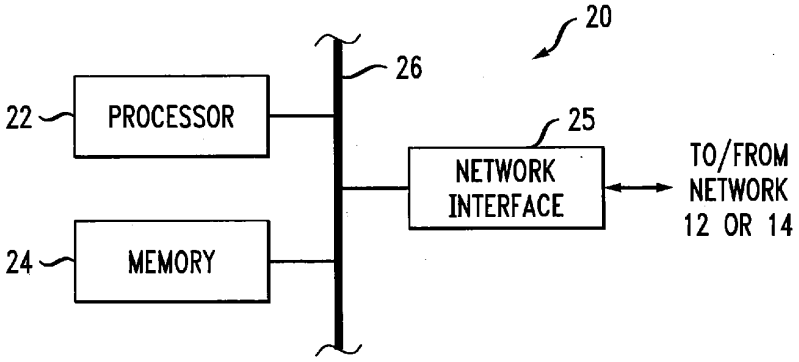

10
18
18-1
USER TERMINAL
18-r
USER TERMINAL
15-1
MOBILE DEVICE
15-2
MOBILE DEVICE
12
WIRELESS NETWORK
14
INTERNET
MOBILE DEVICE
15-3
MOBILE DEVICE
15-n
15
SERVER
16-1
SERVER
16-2
SERVER
16-k
16

FIG. 1B


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

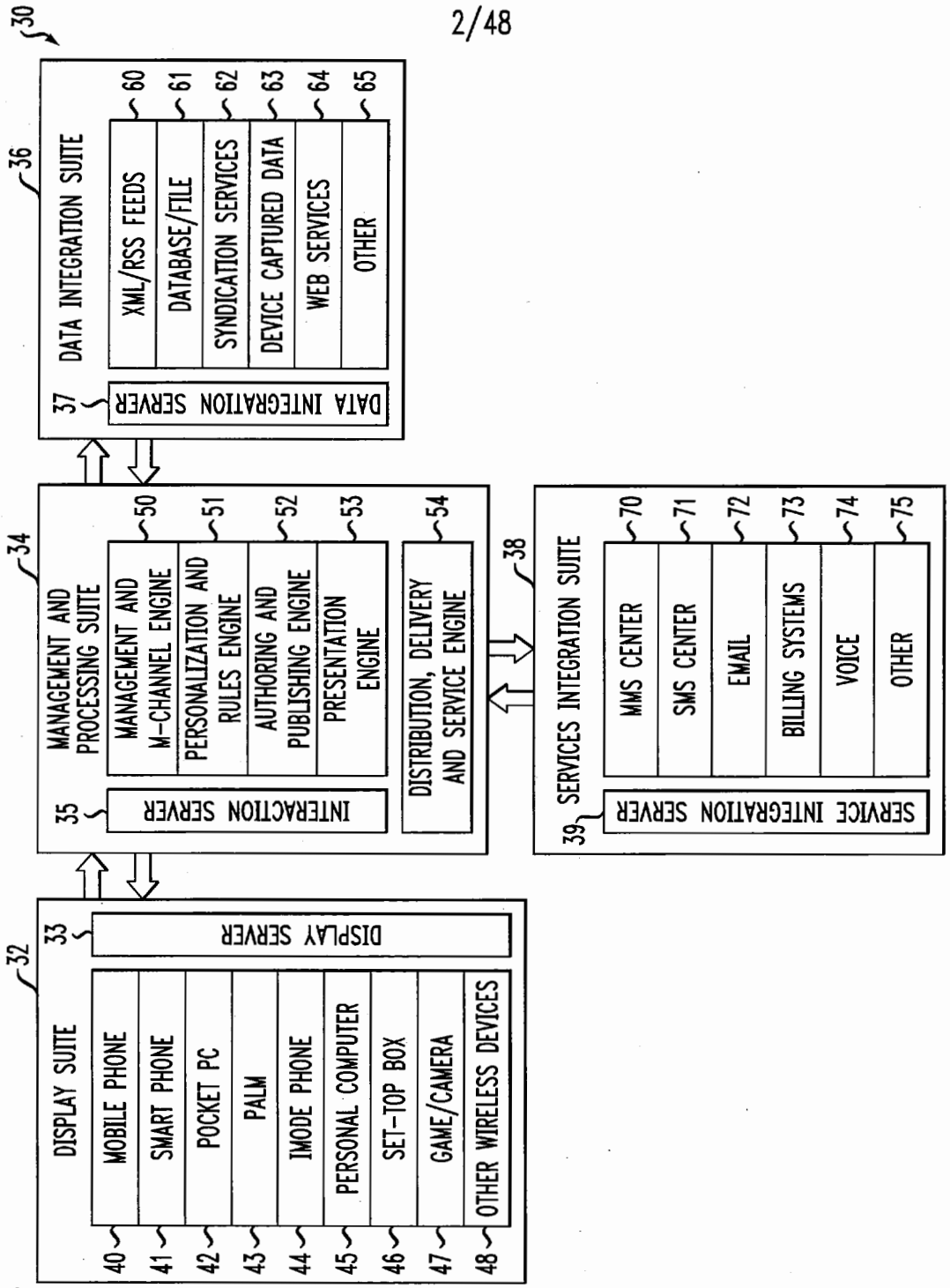

30
36
DATA INTEGRATION SUITE
37
DATA INTEGRATION SERVER
XML/RSS FEEDS
60
DATABASE/FILE
61
SYNDICATION SERVICES
62
DEVICE CAPTURED DATA
63
WEB SERVICES
64
OTHER
65
34
MANAGEMENT AND PROCESSING SUITE
35
INTERACTION SERVER
MANAGEMENT AND M-CHANNEL ENGINE
50
PERSONALIZATION AND RULES ENGINE
51
AUTHORING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

FIG. 1C

FIG. 1D

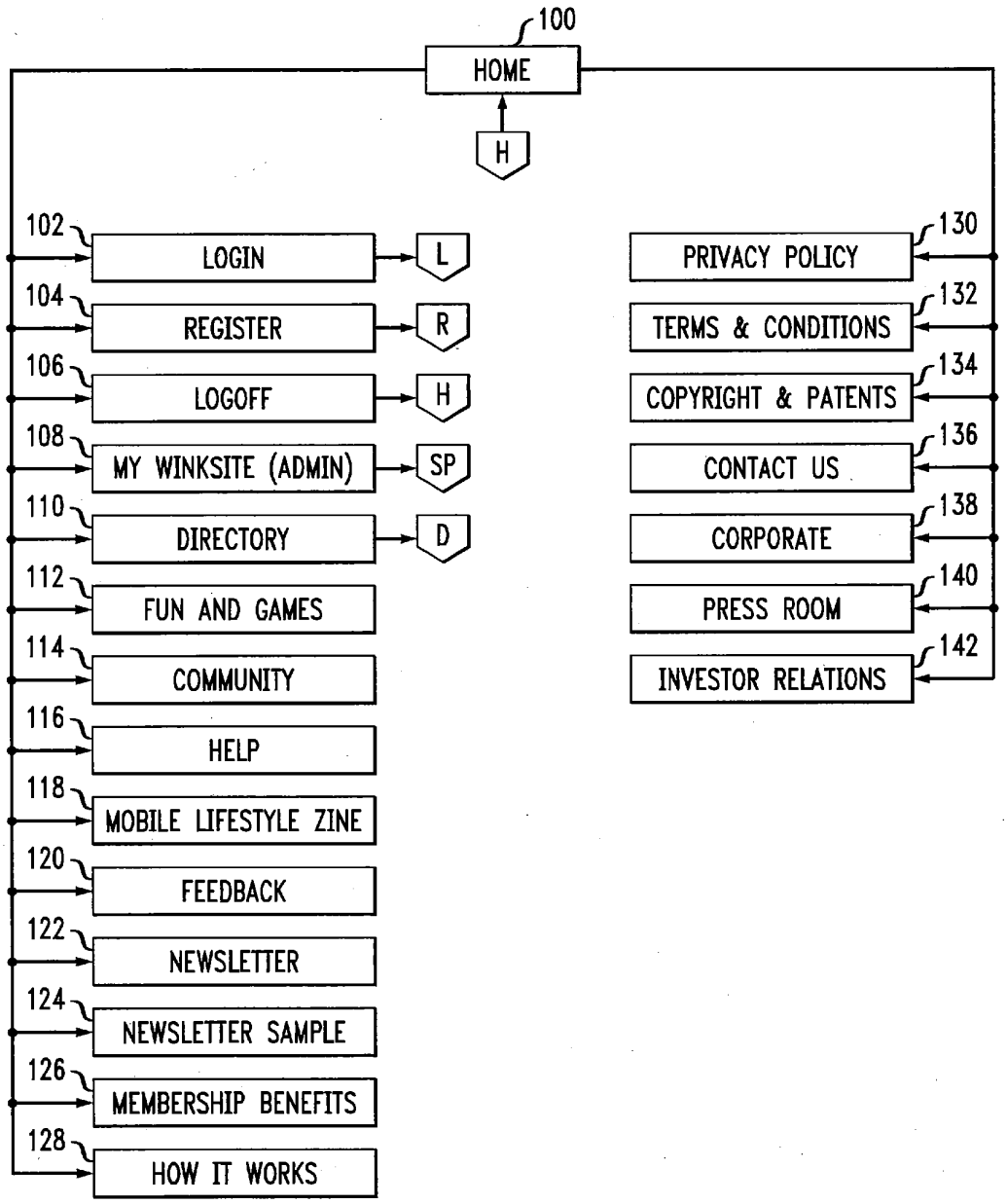

100
HOME
H
102
LOGIN
L
104
REGISTER
R
106
LOGOFF
H
108
MY WINKSITE (ADMIN)
SP
110
DIRECTORY
D
112
FUN AND GAMES
114
COMMUNITY
116
HELP
118
MOBILE LIFESTYLE ZINE
120
FEEDBACK
122
NEWSLETTER
124
NEWSLETTER SAMPLE
126
MEMBERSHIP BENEFITS
128
HOW IT WORKS
130
PRIVACY POLICY
132
TERMS & CONDITIONS
134
COPYRIGHT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

FIG. 2

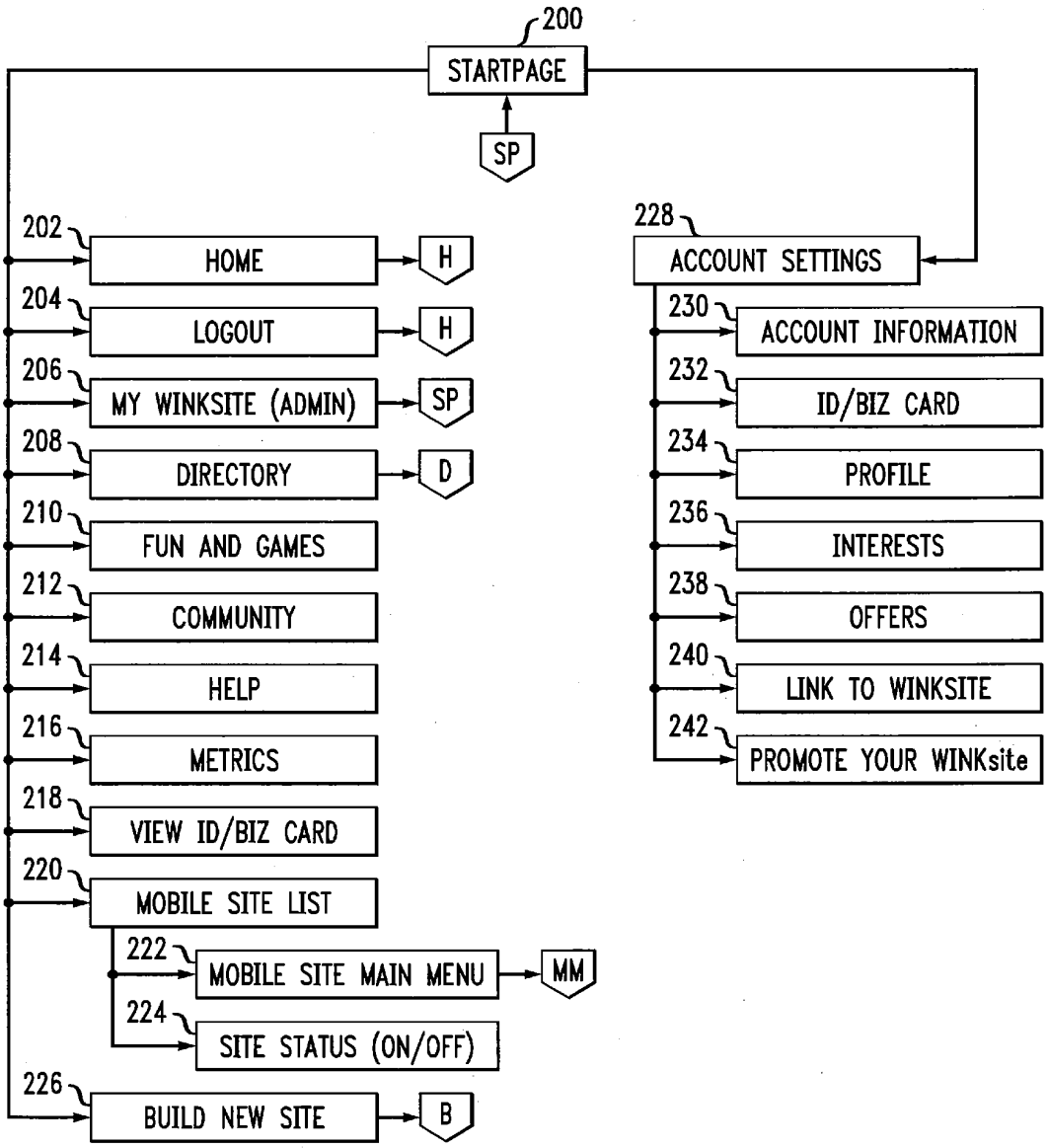

200
STARTPAGE
SP
202
HOME
H
204
LOGOUT
H
206
MY WINKSITE (ADMIN)
SP
208
DIRECTORY
D
210
FUN AND GAMES
212
COMMUNITY
214
HELP
216
METRICS
218
VIEW ID/BIZ CARD
220
MOBILE SITE LIST
222
MOBILE SITE MAIN MENU
MM
224
SITE STATUS (ON/OFF)
226
BUILD NEW SITE
B
228
ACCOUNT SETTINGS
230
ACCOUNT INFORMATION
232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

FIG. 3

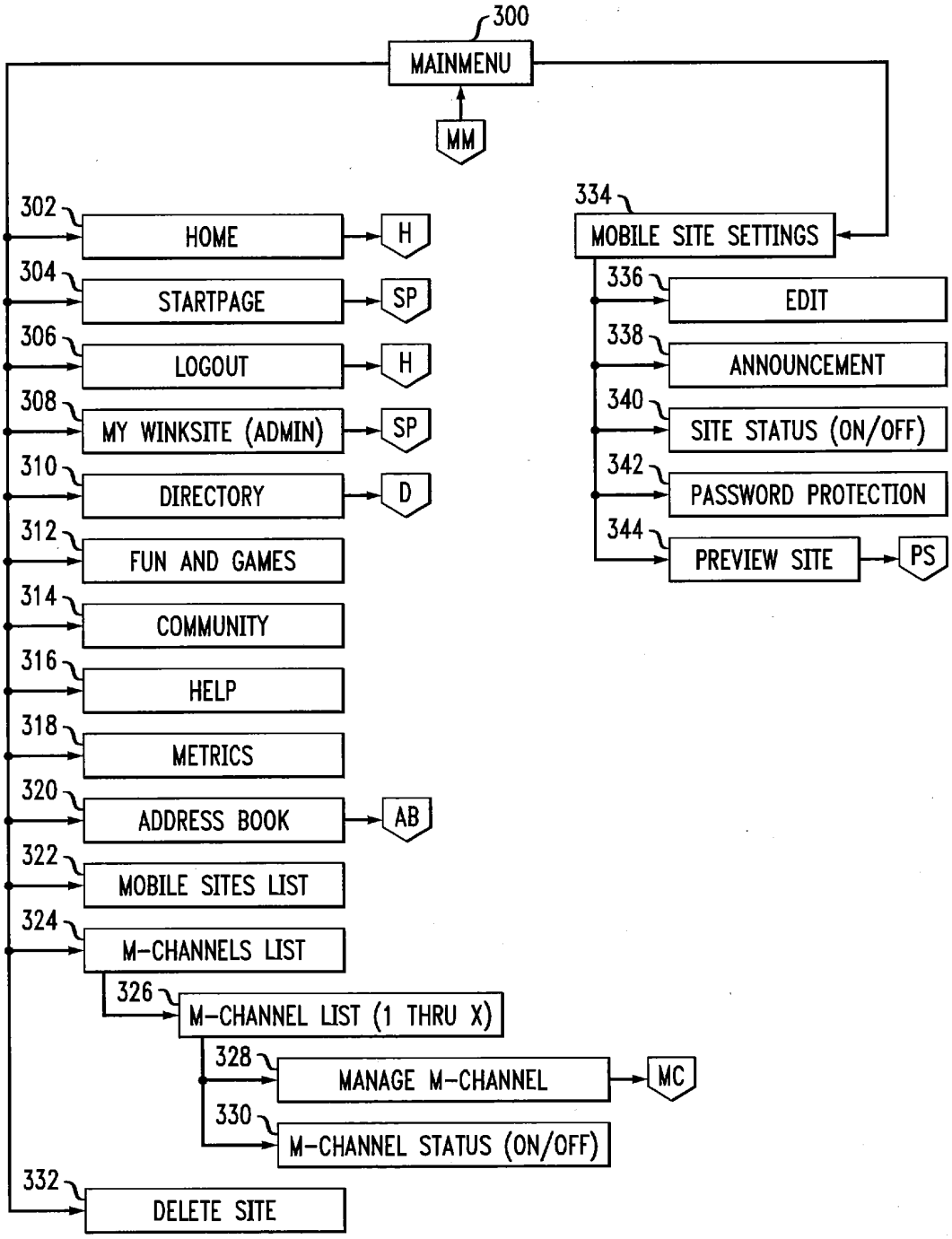

300
MAINMENU
MM
302
HOME
H
304
STARTPAGE
SP
306
LOGOUT
H
308
MY WINKSITE (ADMIN)
SP
310
DIRECTORY
D
312
FUN AND GAMES
314
COMMUNITY
316
HELP
318
METRICS
320
ADDRESS BOOK
AB
322
MOBILE SITES LIST
324
M-CHANNELS LIST
326
M-CHANNEL LIST (1 THRU X)
328
MANAGE M-CHANNEL
MC
330
M-CHANNEL STATUS (ON/OFF)
332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

FIG. 4

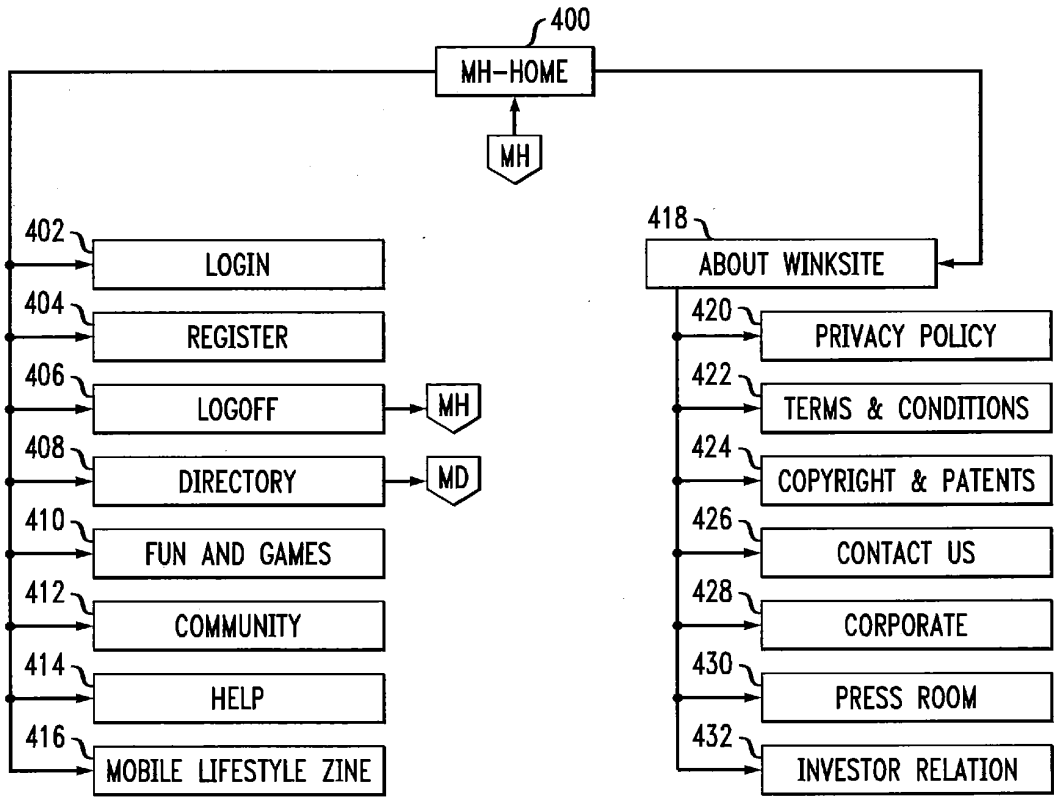
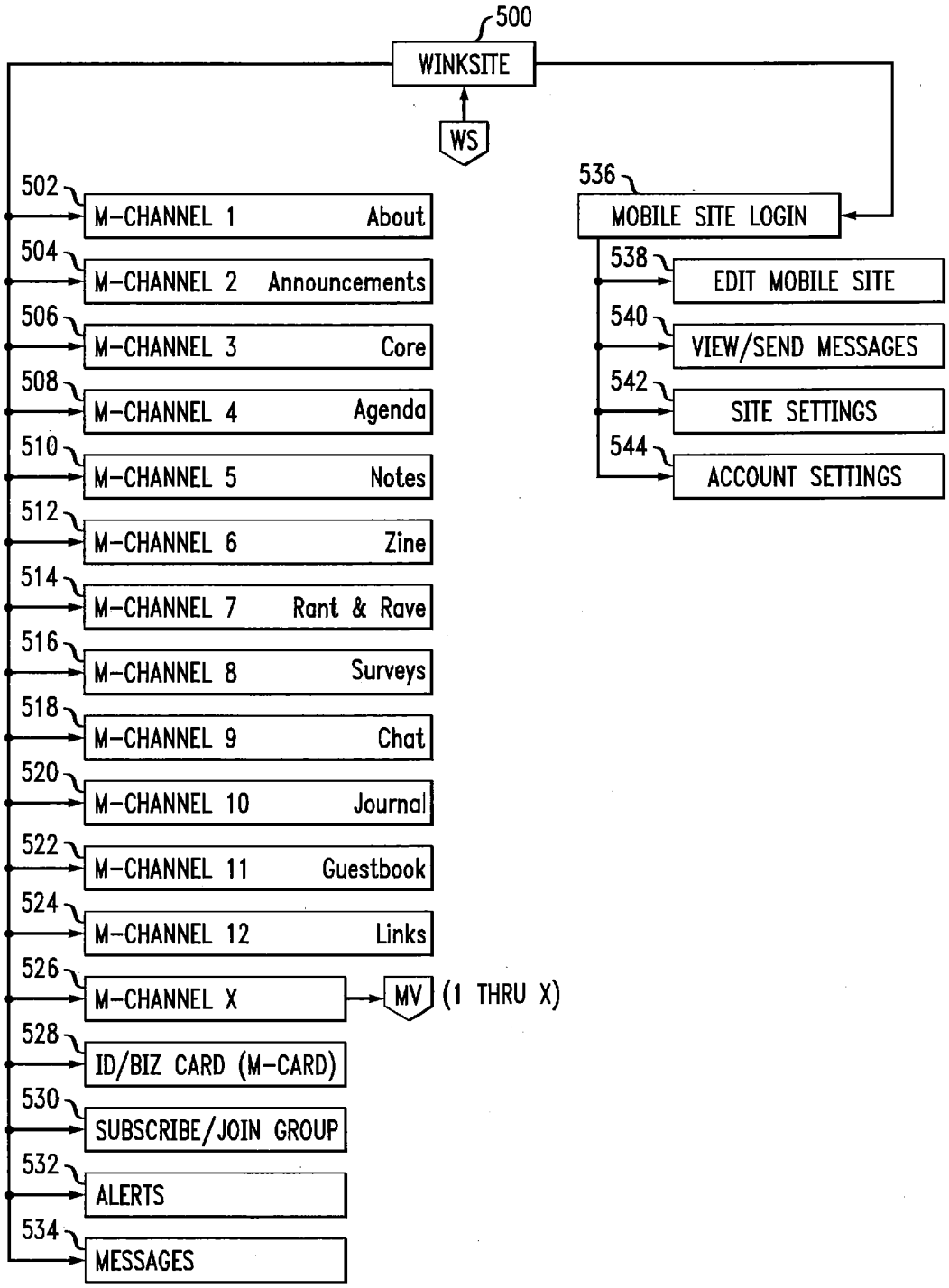
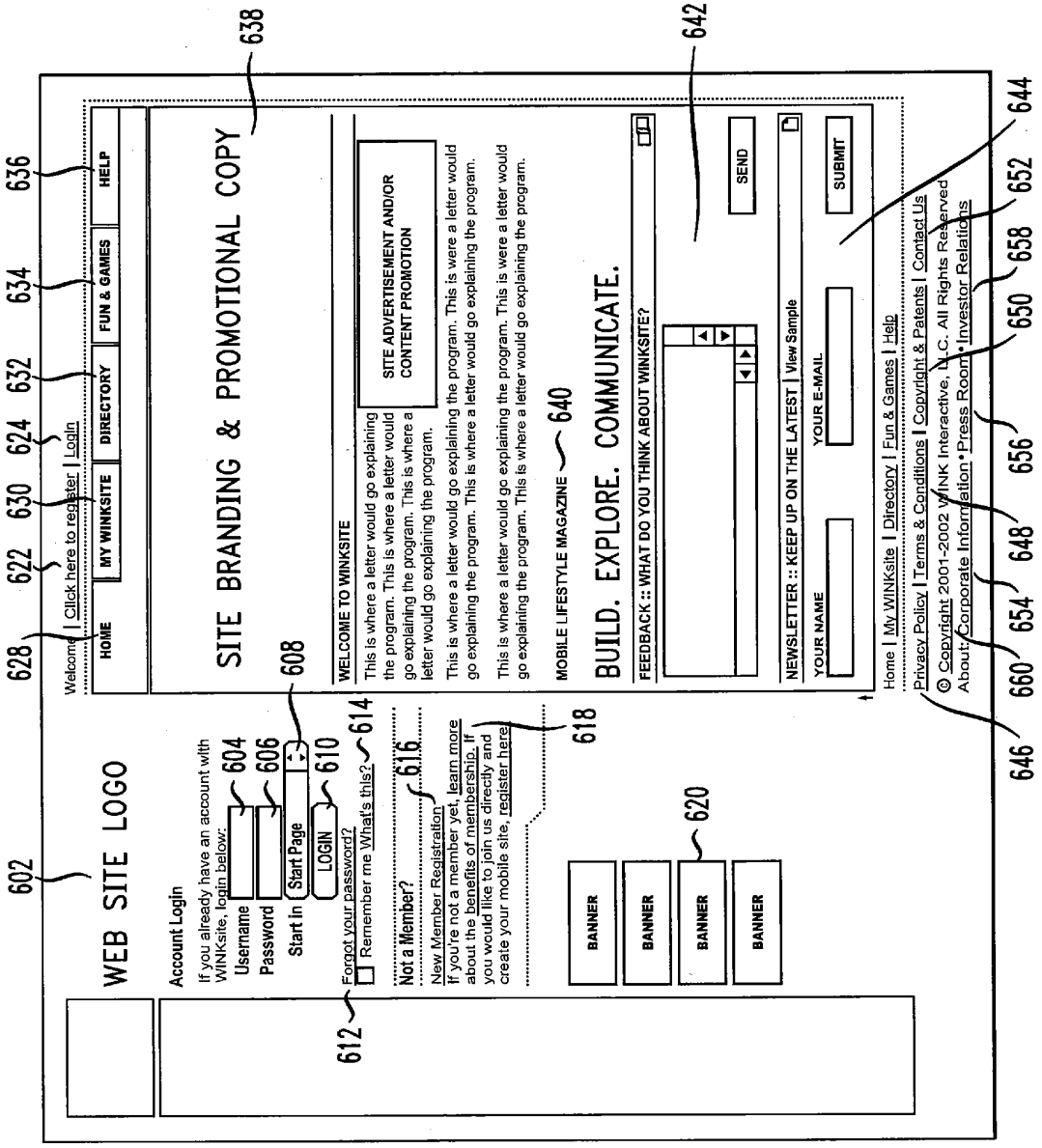

400
MH-HOME
MH
402
LOGIN
404
REGISTER
406
LOGOFF
MH
408
DIRECTORY
MD
410
FUN AND GAMES
412
COMMUNITY
414
HELP
416
MOBILE LIFESTYLE ZINE
418
ABOUT WINKSITE
420
PRIVACY POLICY
422
TERMS & CONDITIONS
424
COPYRIGHT & PATENTS
426
CONTACT US
428
CORPORATE
430
PRESS ROOM
432
INVESTOR RELATION

FIG. 5


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


602
WEB SITE LOGO
Account Login
If you already have an account with WINKsite, login below:
Username
Password
Start In
Start Page
LOGIN
Forgot your password?
Remember me What's this?
Not a Member?
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
BANNER
BANNER
BANNER
Welcome | Click here to register | Login
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
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.
This is where a letter would go explaining the program. This is where a letter would go explaining the program. This is where a letter would go explaining the program.
This is where a letter would go explaining the program. This is where a letter would go explaining the program. This is where a letter would go explaining the program.
SITE ADVERTISEMENT AND/OR CONTENT PROMOTION
MOBILE LIFESTYLE MAGAZINE
BUILD. EXPLORE. COMMUNICATE.
FEEDBACK :: WHAT DO YOU THINK ABOUT WINKSITE?
SEND
NEWSLETTER :: KEEP UP ON THE LATEST | View Sample
YOUR NAME
YOUR E-MAIL
SUBMIT
Home | My WINKsite | Directory | Fun & Games | Help
Privacy Policy | Terms & Conditions | Copyright & Patents | Contact Us
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved
About Corporate Information • Press Room • Investor Relations
604
606
608
610
612
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618
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FIG. 6

FIG. 7

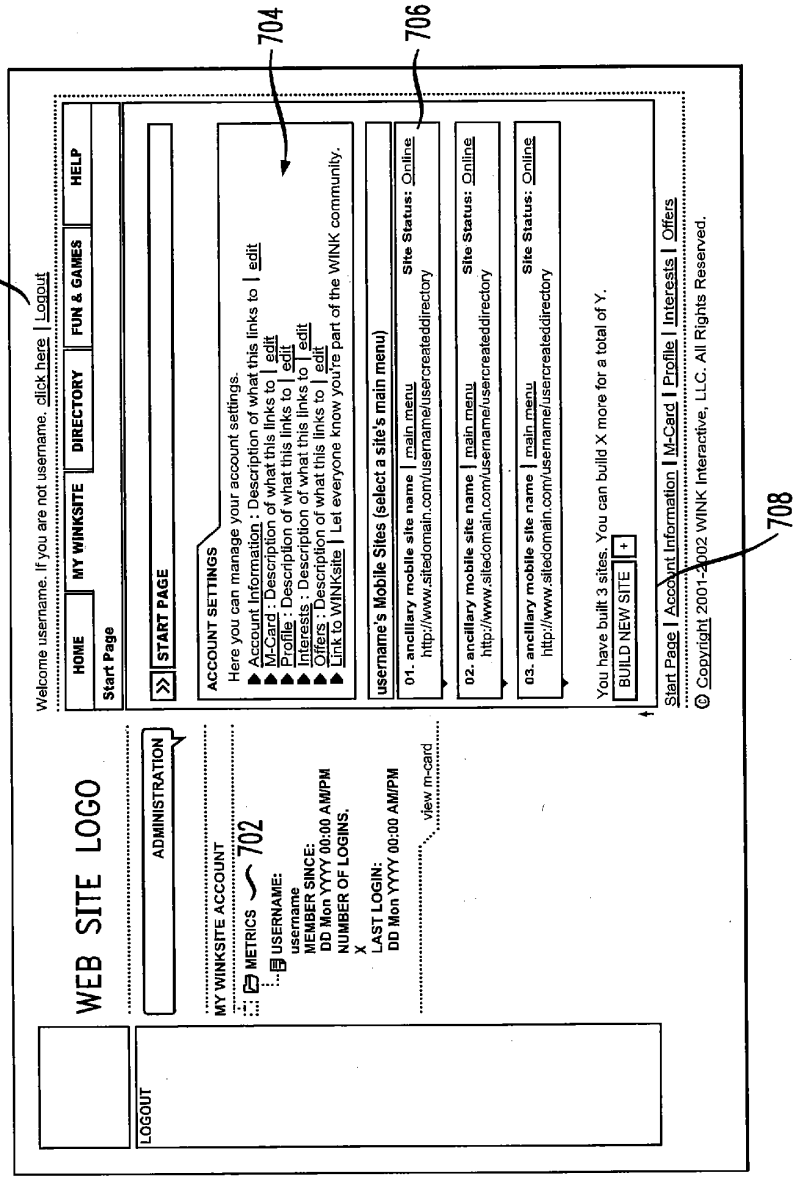
700
704
706
708
702
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page
START PAGE
ACCOUNT SETTINGS
Here you can manage your account settings.
Account Information : Description of what this links to | edit
M-Card : Description of what 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
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.
WEB SITE LOGO
ADMINISTRATION
LOGOUT
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

FIG. 8

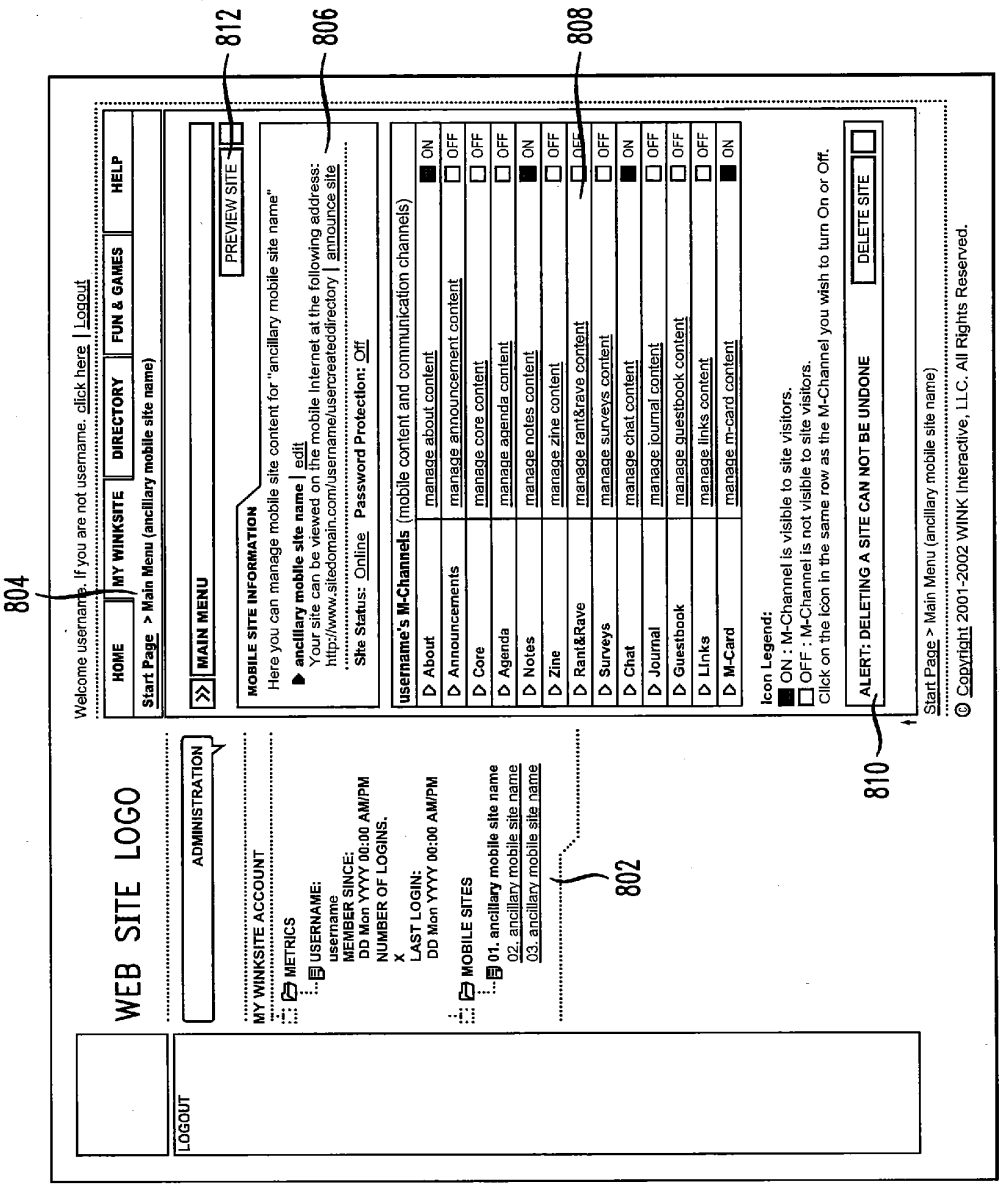
804
812
806
808
802
810
WEB SITE LOGO
Welcome username. If you are not username. click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name)
LOGOUT
ADMINISTRATION
MY WINKSITE ACCOUNT
METRICS
USERNAME:
username
MEMBER SINCE:
DD Mon YYYY 00:00 AM/PM
NUMBER OF LOGINS.
x
LAST LOGIN:
DD Mon YYYY 00:00 AM/PM
MOBILE SITES
01. ancillary mobile site name
02. ancillary mobile site name
03. ancillary mobile site name
MAIN MENU
PREVIEW SITE
MOBILE SITE INFORMATION
Here you can manage mobile site content for "ancillary mobile site name"
ancillary mobile site name | edit
Your site can be viewed on the mobile Internet at the following address:
http://www.sitedomain.com/username/usercreateddirectory | announce site
Site Status: Online Password Protection: Off
username's M-Channels (mobile content and communication channels)
About manage about content ON
Announcements manage announcement content OFF
Core manage core content OFF
Agenda manage agenda content OFF
Notes manage notes content ON
Zine manage zine content OFF
Rant&Rave manage rant&rave content OFF
Surveys manage surveys content OFF
Chat manage chat content ON
Journal manage journal content OFF
Guestbook manage questbook content OFF
Links manage links content OFF
M-Card manage m-card content ON
Icon Legend:
ON : M-Channel is visible to site visitors.
OFF : M-Channel is not visible to site visitors.
Click on the Icon in the same row as the M-Channel you wish to turn On or Off.
ALERT: DELETING A SITE CAN NOT BE UNDONE
DELETE SITE
Start Page > Main Menu (ancillary mobile site name)
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FIG. 9a

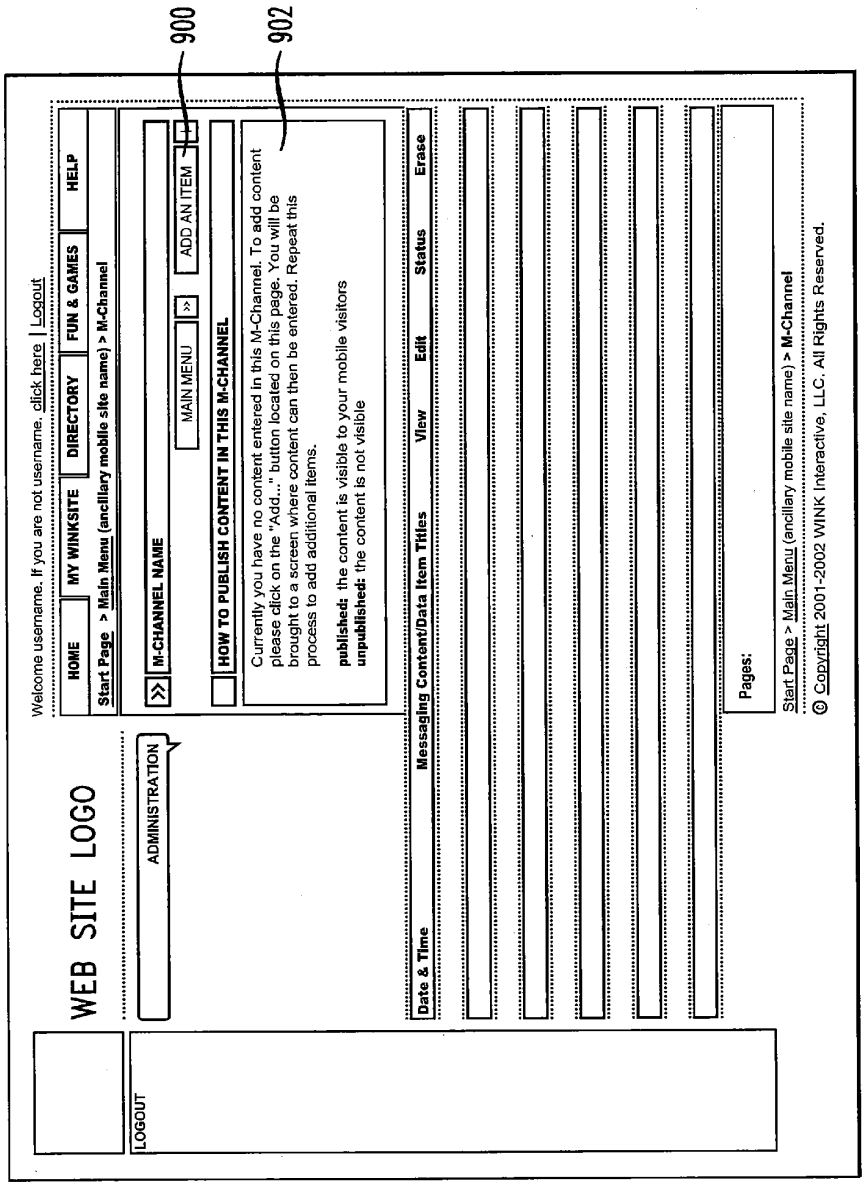
900
902
WEB SITE LOGO
LOGOUT
ADMINISTRATION
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name) > M-Channel
M-CHANNEL NAME
MAIN MENU
ADD AN ITEM
HOW TO PUBLISH CONTENT IN THIS M-CHANNEL
Currently you have no content entered in this M-Channel. To add content please click on the "Add..." button located on this page. You will be brought to a screen where content can then be entered. Repeat this process to add additional items.
published: the content is visible to your mobile visitors
unpublished: the content is not visible
Date & Time
Messaging Content/Data Item Titles
View
Edit
Status
Erase
Pages:
Start Page > Main Menu (ancillary mobile site name) > M-Channel
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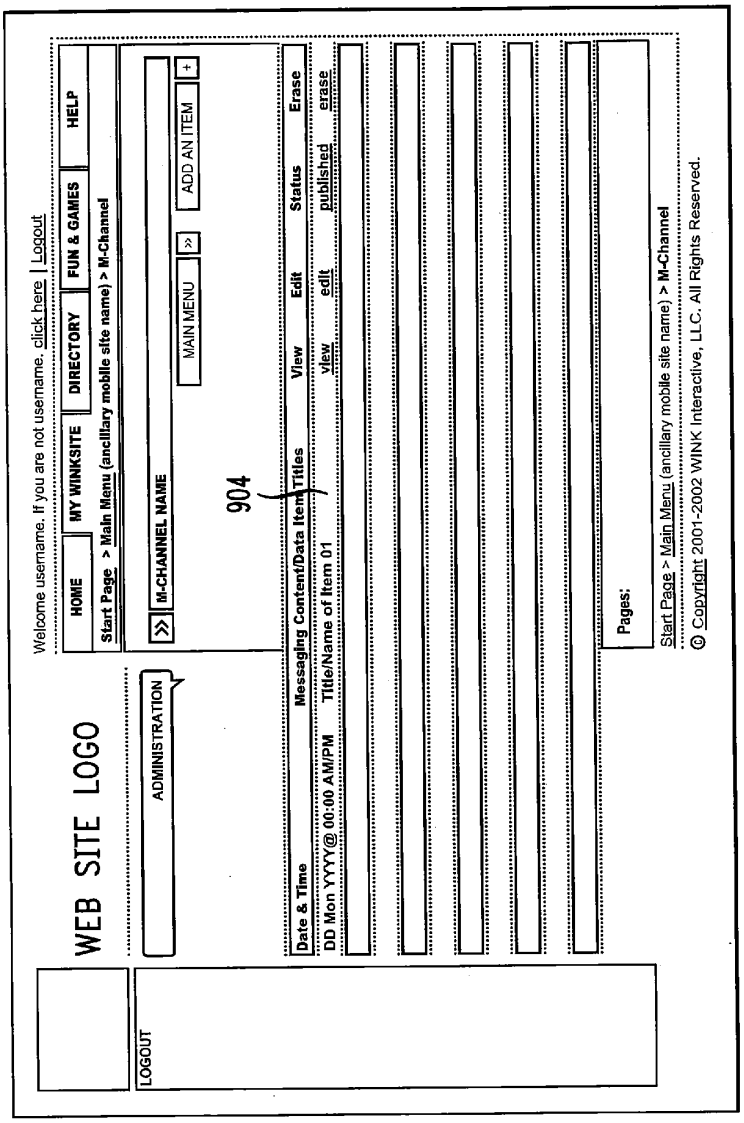
FIG. 9b


WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name) > M-Channel
LOGOUT
ADMINISTRATION
M-CHANNEL NAME
MAIN MENU
ADD AN ITEM
904
Messaging Content/Data Item Titles
Date & Time
View
Edit
Status
Erase
DD Mon YYYY@ 00:00 AM/PM
Title/Name of Item 01
view
edit
published
erase
Pages:
Start Page > Main Menu (ancillary mobile site name) > M-Channel
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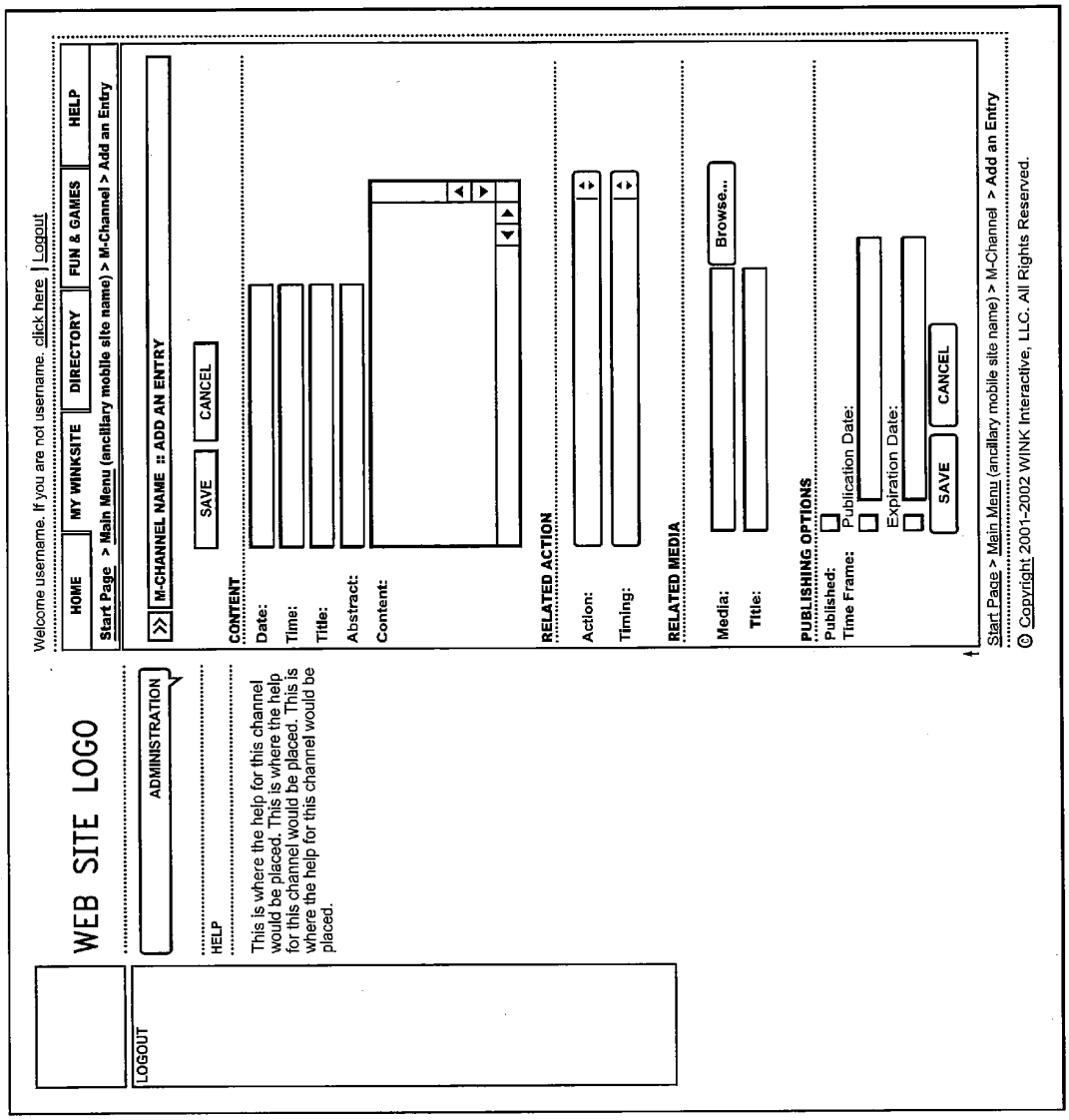
WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Start Page > Main Menu (ancillary mobile site name) > M-Channel > Add an Entry
LOGOUT
ADMINISTRATION
HELP
This is where the help for this channel would be placed. This is where the help for this channel would be placed. This is where the help for this channel would be placed.
M-CHANNEL NAME :: ADD AN ENTRY
SAVE
CANCEL
CONTENT
Date:
Time:
Title:
Abstract:
Content:
RELATED ACTION
Action:
Timing:
RELATED MEDIA
Media:
Browse...
Title:
PUBLISHING OPTIONS
Published:
Time Frame:
Publication Date:
Expiration Date:
SAVE
CANCEL
Start Page > Main Menu (ancillary mobile site name) > M-Channel > Add an Entry
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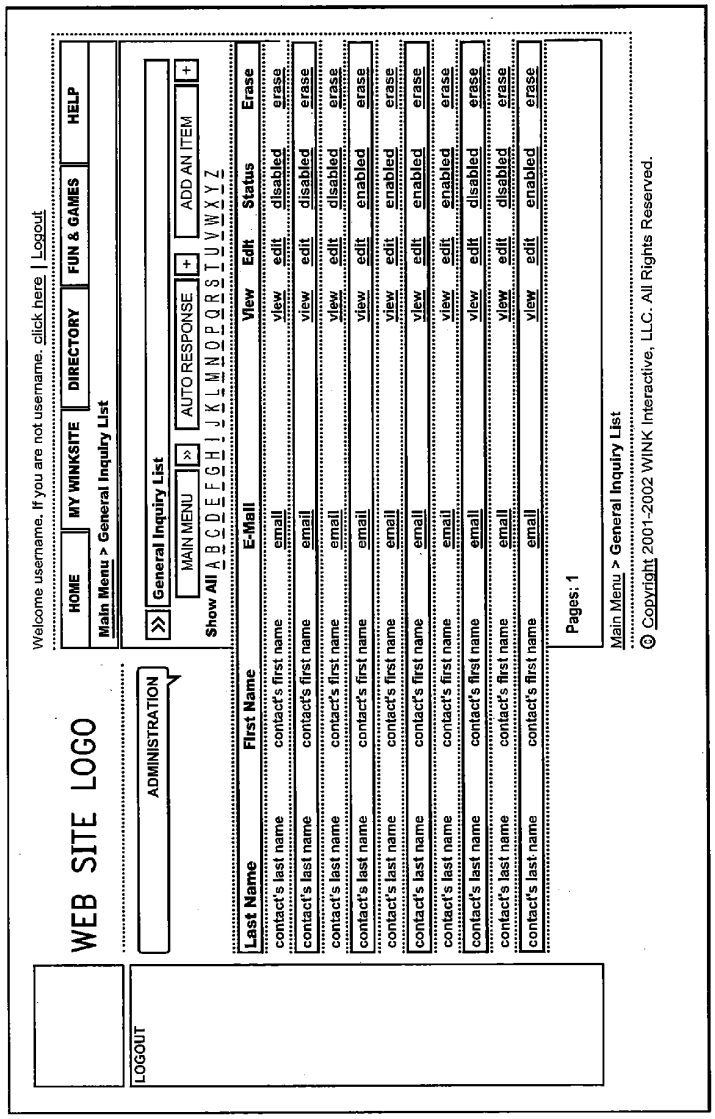
FIG. 10

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
LOGOUT
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
enabled
erase
Pages: 1
Main Menu > General Inquiry List
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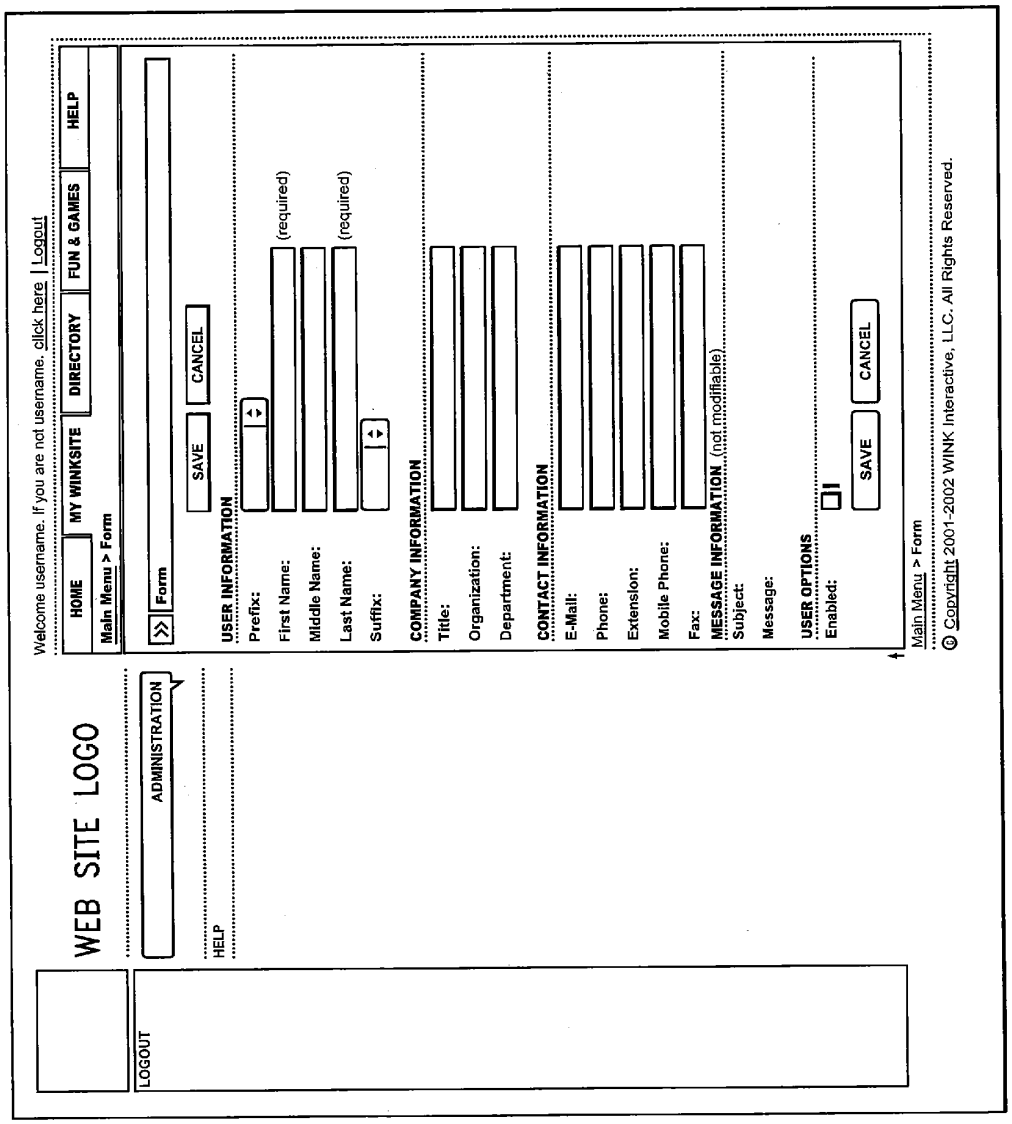
WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Main Menu > Form
LOGOUT
ADMINISTRATION
HELP
Form
SAVE
CANCEL
USER INFORMATION
Prefix:
First Name:
(required)
Middle Name:
Last Name:
(required)
Suffix:
COMPANY INFORMATION
Title:
Organization:
Department:
CONTACT INFORMATION
E-Mail:
Phone:
Extension:
Mobile Phone:
Fax:
MESSAGE INFORMATION (not modifiable)
Subject:
Message:
USER OPTIONS
Enabled:
SAVE
CANCEL
Main Menu > Form
© Copyright 2001-2002 WINK Interactive, LLC. All Rights Reserved.

FIG. 12

FIG. 13

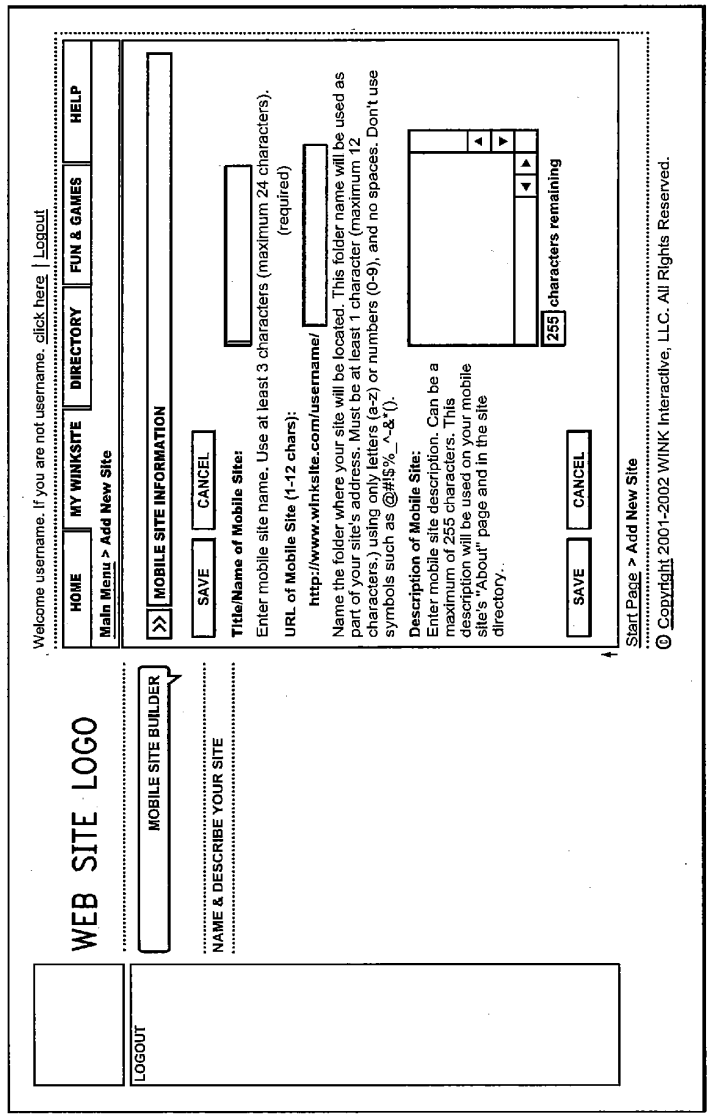
WEB SITE LOGO
Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Main Menu > Add New Site
LOGOUT
MOBILE SITE BUILDER
NAME & DESCRIBE YOUR SITE
MOBILE SITE INFORMATION
SAVE
CANCEL
Title/Name of Mobile Site:
Enter mobile site name. Use at least 3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

FIG. 14

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

WEB SITE LOGO

HOME | MY WINKSITE | DIRECTORY | FUN & GAMES | HELP

Start Page > Account Information

LOGOUT

ACCOUNT INFORMATION

MY WINKSITE ACCOUNT

METRICS

USERNAME:
username
MEMBER SINCE:
DD Mon YYYY 00:00 AM/PM
NUMBER OF LOGINS.
X
LAST LOGIN:
DD Mon YYYY 00:00 AM/PM

view m-card

ACCOUNT INFORMATION

SAVE CANCEL

MEMBER INFORMATION

First Name: (required)
Last Name: (required)
Birth Date: Year: (required)
Gender: Male Female (required)

CONTACT & LOCATION INFORMATION

E-Mail Address: (required)
Website URL:

Country Code: Select for country code
Mobile Phone: + country code area code phone number

Selecting a country from the "Country Code" drop down fills in the country code portion of your mobile phone number. Persons outside of the United States use the area code box for your region or carrier code.

AOL IM Screen Name:
ICQ Numbers:
MSN Messenger Name:
Yahoo! Messenger ID:

Address Line 1:
Address Line 2:
City:
State/Province: U.S. Residents: Please select your state below:
New York
All Others: Please type in your state/province
Zip/Postal Code:
Country: United States

PASSWORD INFORMATION

Password (6-12 chars): (required)
Re-enter Password: (required)

Must be at least 6 characters long, maximum 12 characters, may contain only letters (a-z) or numbers (0-9), and no spaces. Don't use symbols such as @#!$%_^-&*(). You will need your password to access WINK services.

SAVE CANCEL

Start Page > Account Information

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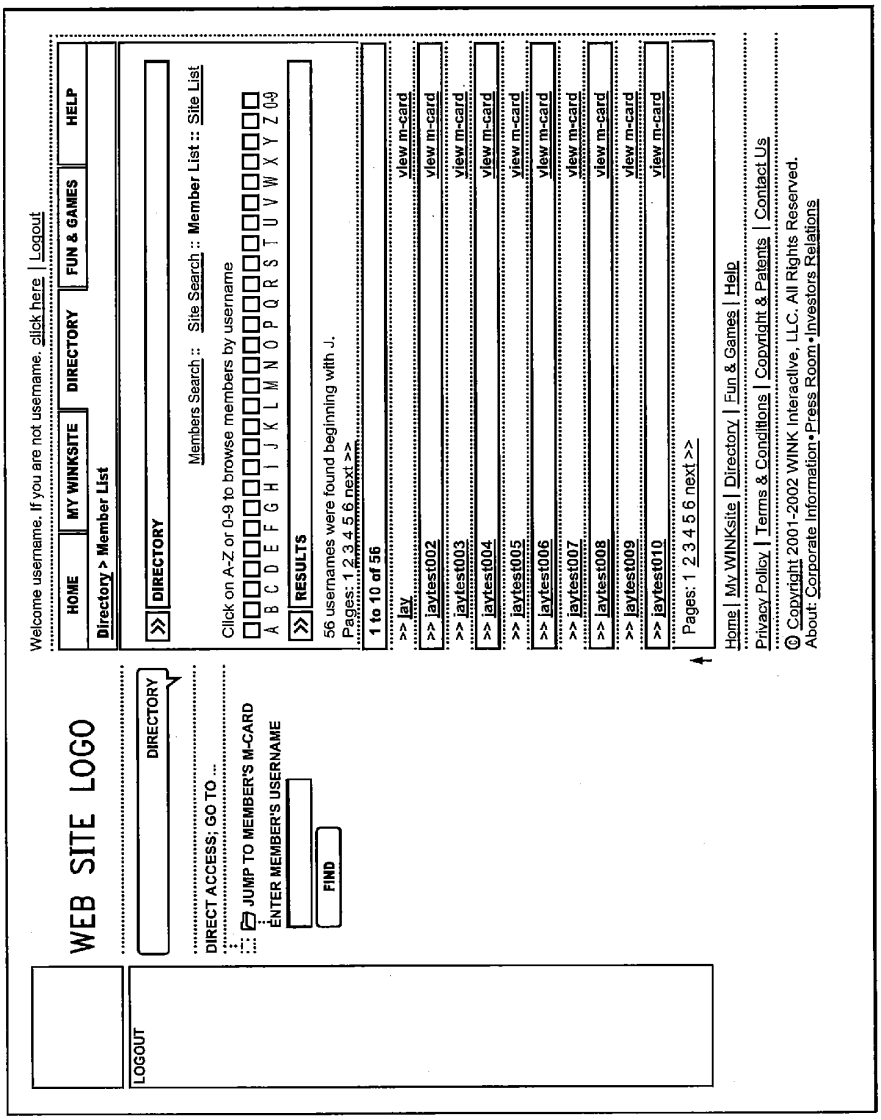
FIG. 15


Welcome username. If you are not username, click here | Logout
LOGOUT
WEB SITE LOGO
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
DIRECTORY
Directory > Member List
DIRECT ACCESS; GO TO ...
JUMP TO MEMBER'S M-CARD
ENTER MEMBER'S USERNAME
FIND
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
>> jaytest002
>> jaytest003
>> jaytest004
>> jaytest005
>> jaytest006
>> jaytest007
>> jaytest008
>> jaytest009
>> jaytest010
view m-card
Pages: 1 2 3 4 5 6 next >>
Home | My WINKsite | Directory | Fun & Games | Help
Privacy Policy | Terms & Conditions | Copyright & Patents | Contact Us
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About: Corporate Information•Press Room•Investors Relations

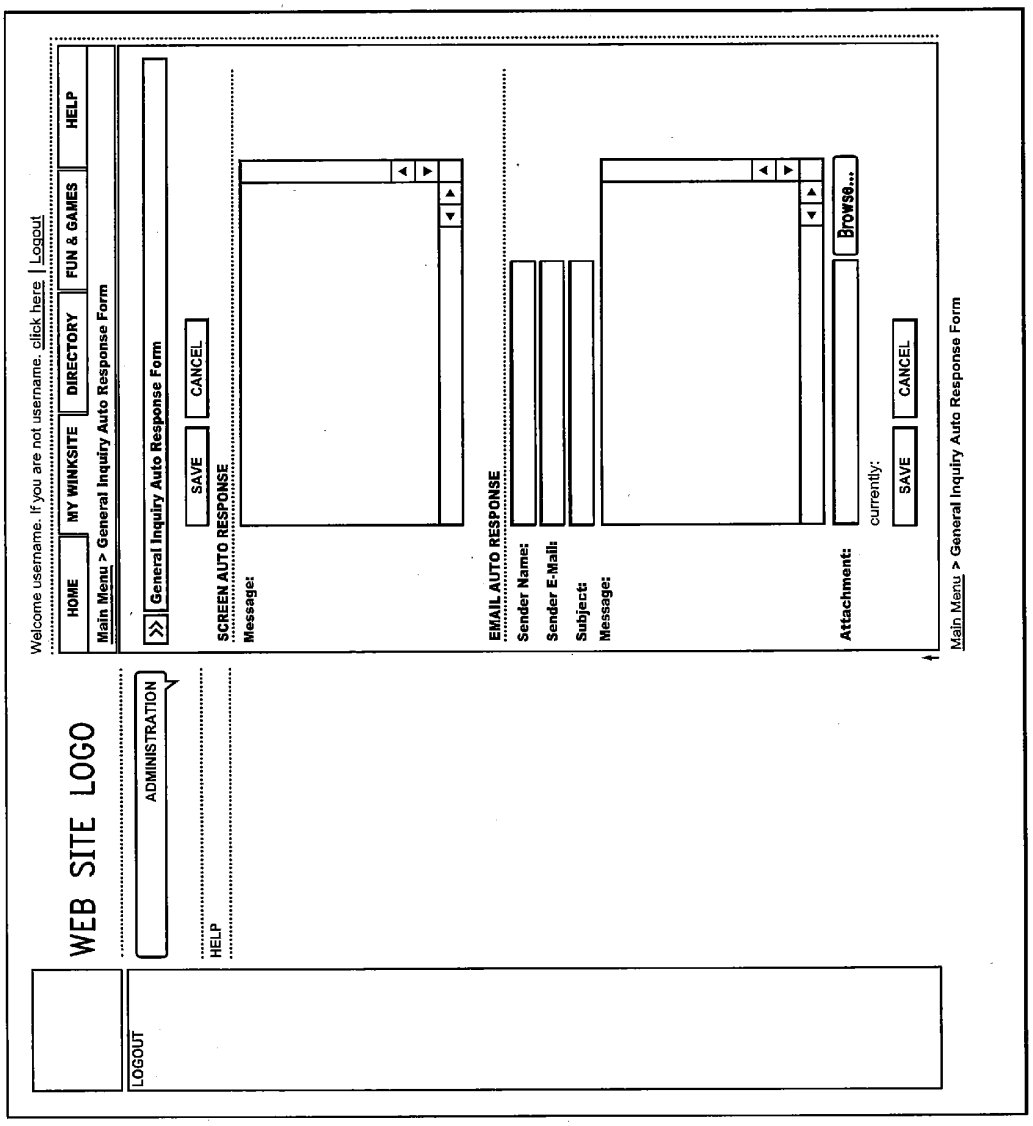

Welcome username. If you are not username, click here | Logout
HOME
MY WINKSITE
DIRECTORY
FUN & GAMES
HELP
Main Menu > General Inquiry Auto Response Form
WEB SITE LOGO
ADMINISTRATION
HELP
LOGOUT
General Inquiry Auto Response Form
SAVE
CANCEL
SCREEN AUTO RESPONSE
Message:
EMAIL AUTO RESPONSE
Sender Name: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

FIG. 16

FIG. 17a

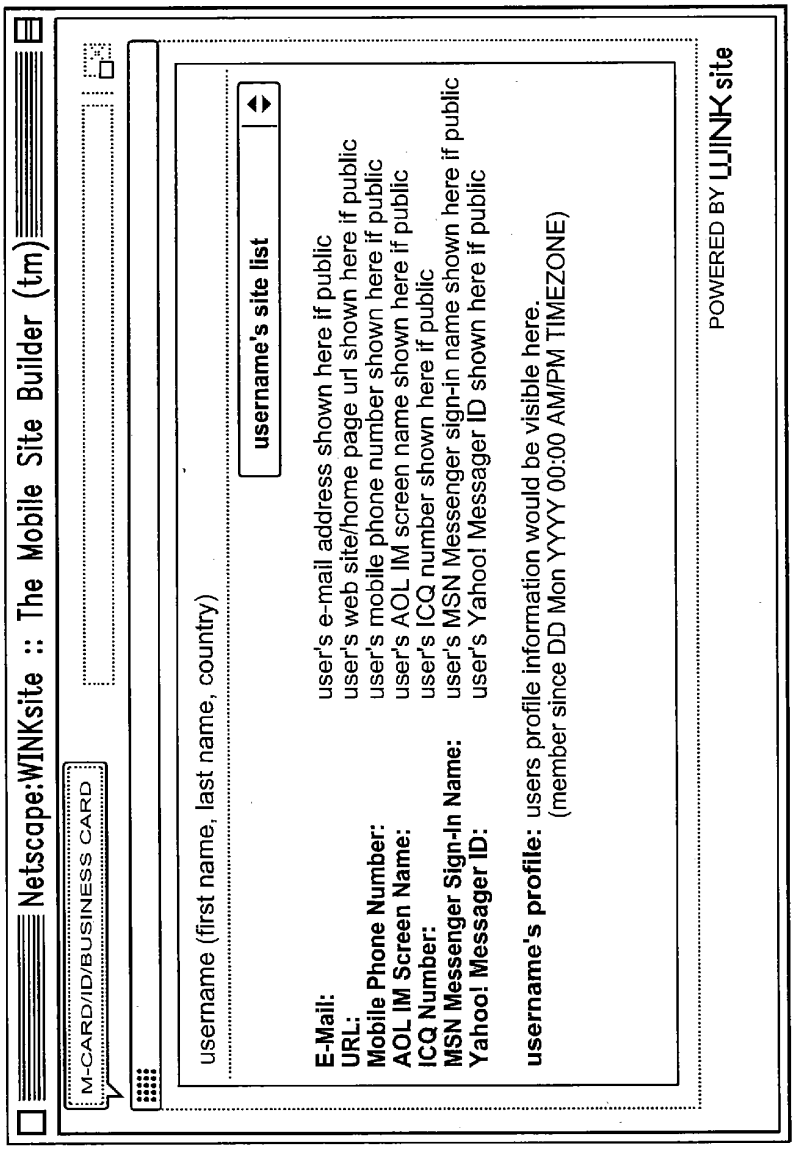

Netscape:WINKsite :: The Mobile Site Builder (tm)
M-CARD/ID/BUSINESS CARD
username (first name, last name, country)
username's site list
E-Mail:
URL:
Mobile Phone Number:
AOL IM Screen Name:
ICQ Number:
MSN Messenger Sign-In Name:
Yahoo! Messager ID:
user's e-mail address shown here if public
user's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

FIG. 17b

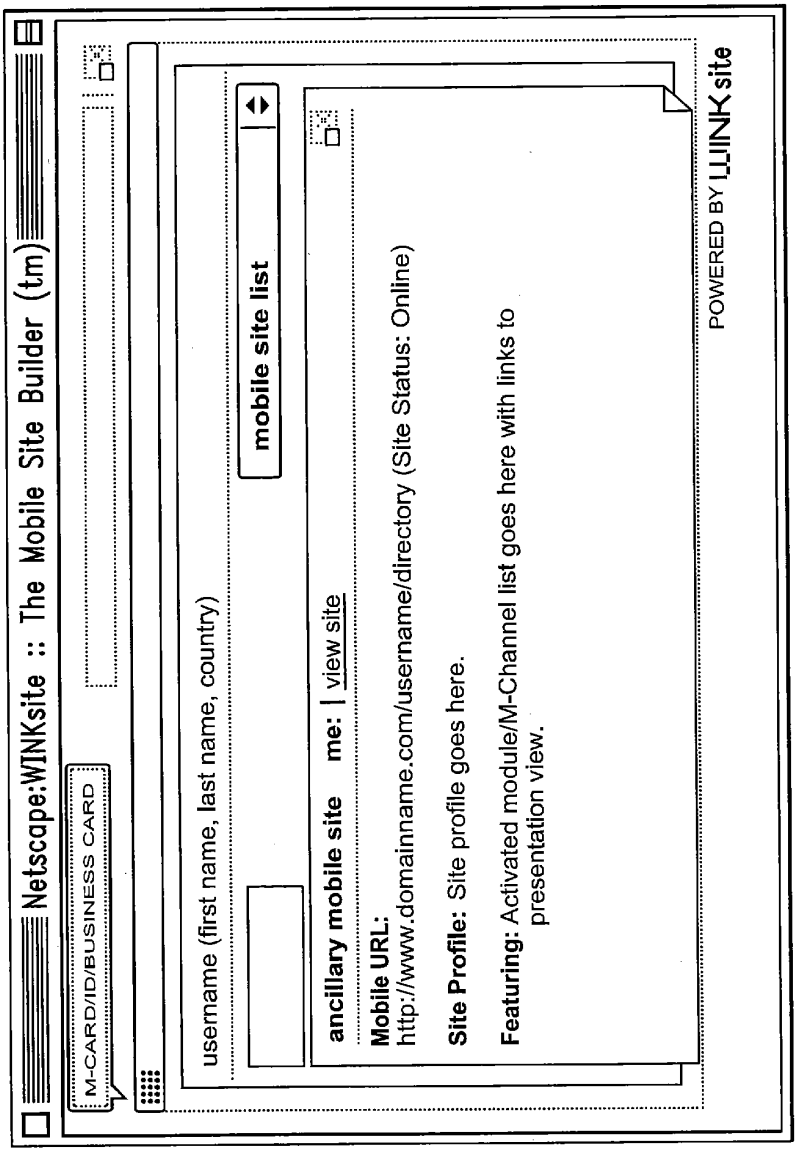

Netscape:WINKsite :: The Mobile Site Builder (tm)
M-CARD/ID/BUSINESS CARD
username (first name, last name, country)
mobile site list
ancillary mobile site
me: | view site
Mobile URL:
http://www.domainname.com/username/directory (Site Status: Online)
Site Profile: Site profile goes here.
Featuring: Activated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

FIG. 18

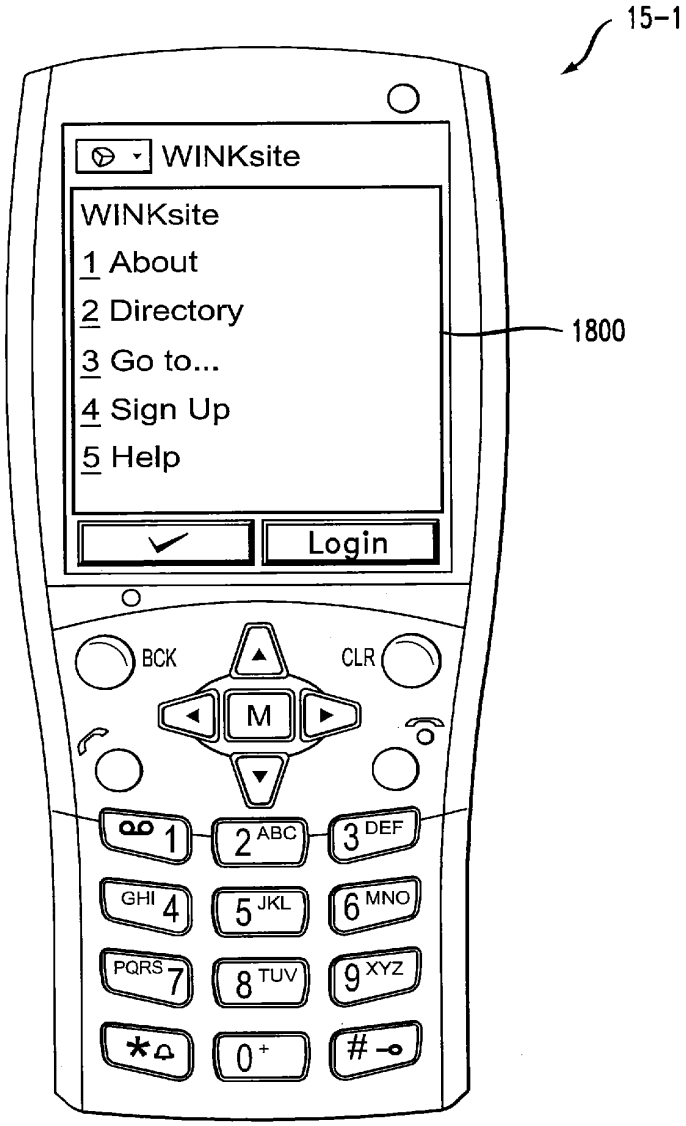

15-1
WINKsite
WINKsite
1 About
2 Directory
3 Go to...
4 Sign Up
5 Help
Login
1800
BCK
CLR
M
1
2 ABC
3 DEF
GHI 4
5 JKL
6 MNO
PQRS 7
8 TUV
9 XYZ
*
0 +
#

FIG. 19

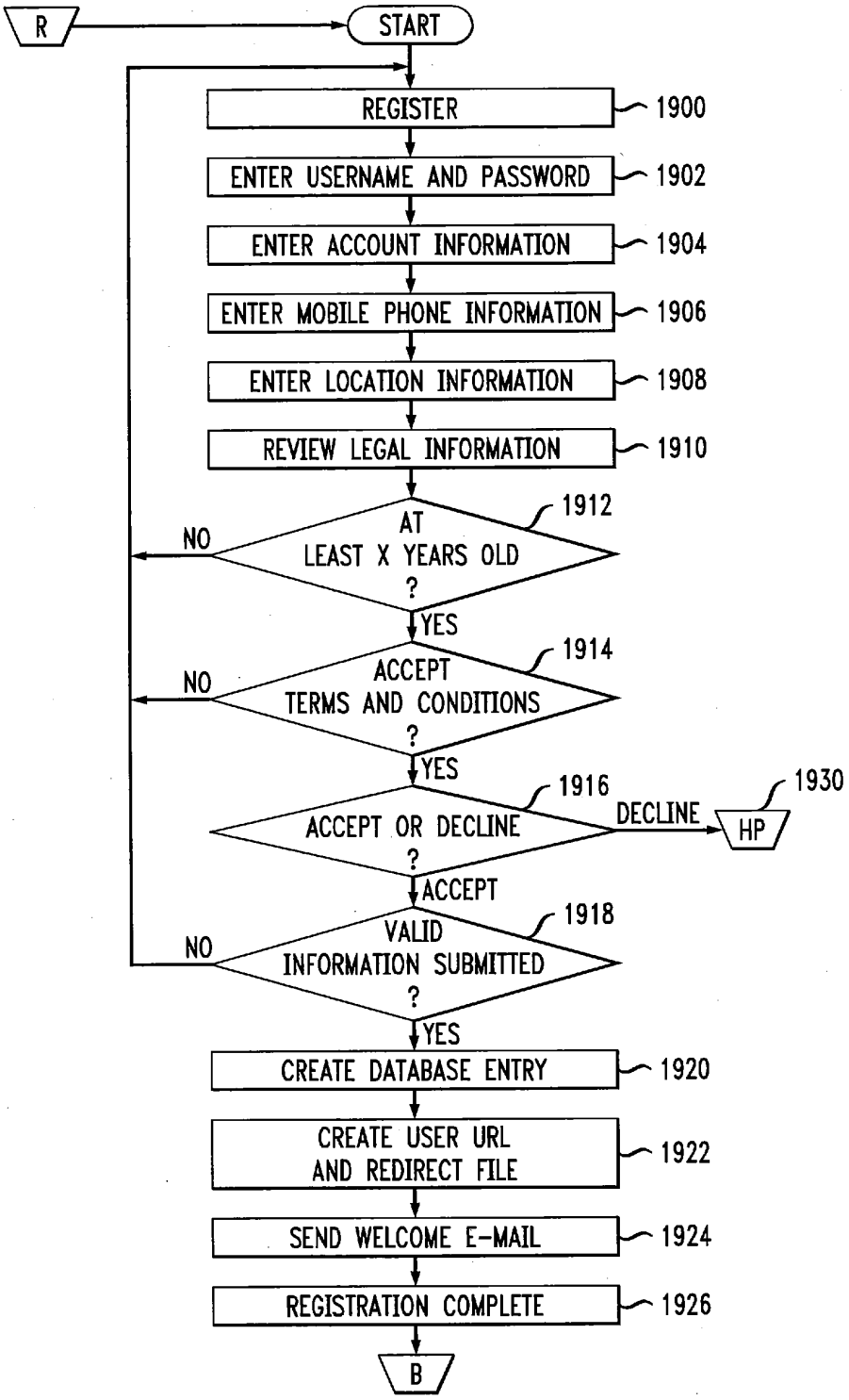

R
START
REGISTER
1900
ENTER USERNAME AND PASSWORD
1902
ENTER ACCOUNT INFORMATION
1904
ENTER MOBILE PHONE INFORMATION
1906
ENTER LOCATION INFORMATION
1908
REVIEW LEGAL INFORMATION
1910
AT LEAST X YEARS OLD ?
1912
NO
YES
ACCEPT TERMS AND CONDITIONS ?
1914
NO
YES
ACCEPT OR DECLINE ?
1916
DECLINE
HP
1930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

FIG. 20

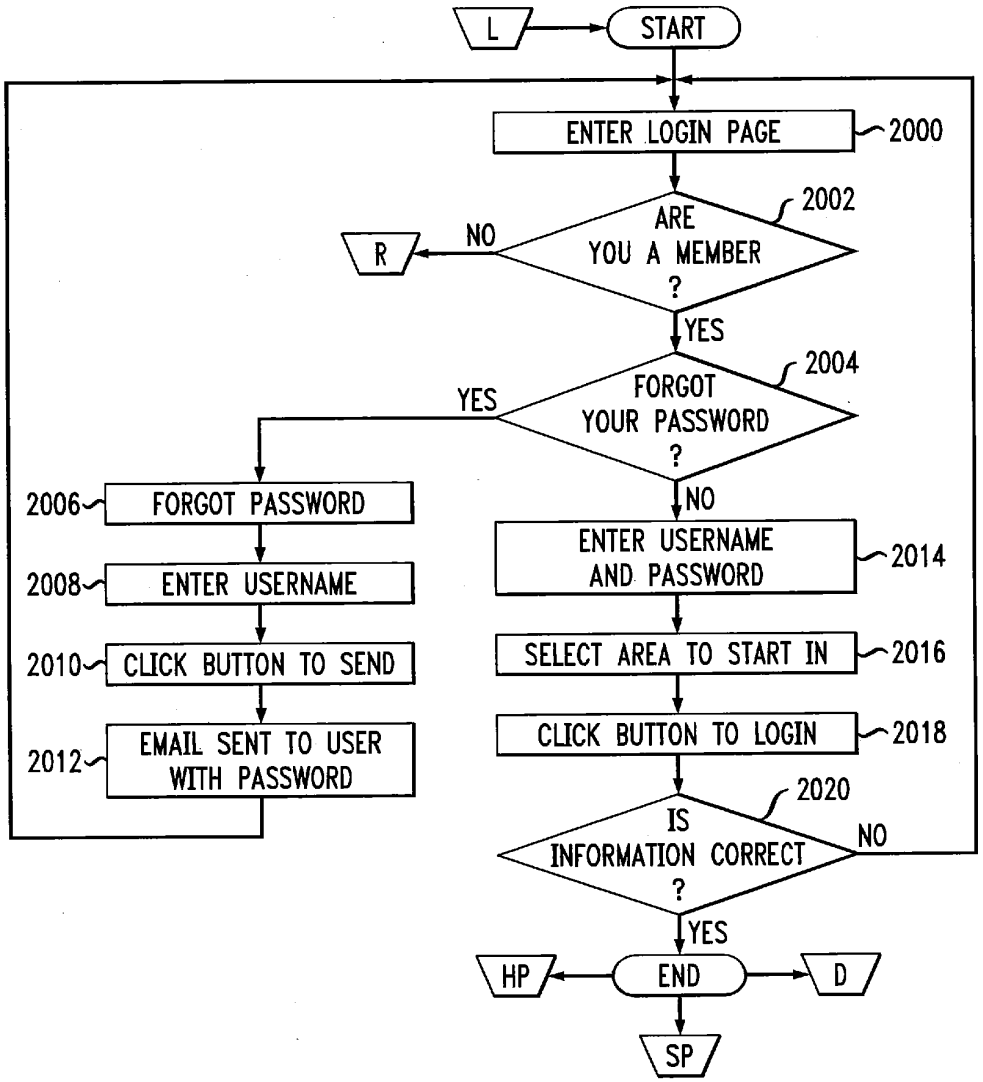

L
START
ENTER LOGIN PAGE
2000
ARE YOU A MEMBER ?
2002
NO
R
YES
FORGOT YOUR PASSWORD ?
2004
YES
NO
2006
FORGOT PASSWORD
2008
ENTER USERNAME
2010
CLICK BUTTON TO SEND
2012
EMAIL SENT TO USER WITH PASSWORD
ENTER USERNAME AND PASSWORD
2014
SELECT AREA TO START IN
2016
CLICK BUTTON TO LOGIN
2018
IS INFORMATION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

FIG. 21

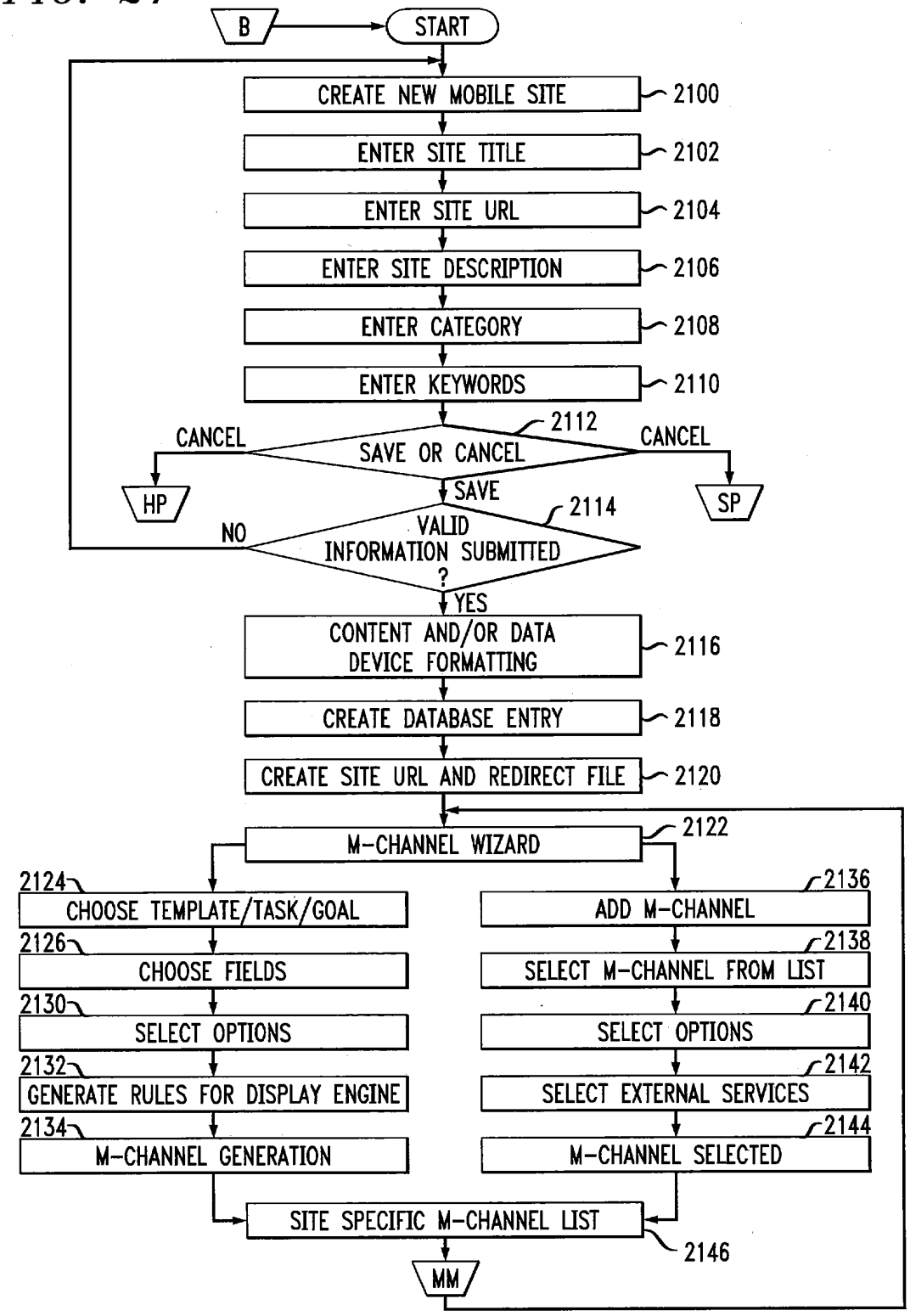

B
START
CREATE NEW MOBILE SITE
2100
ENTER SITE TITLE
2102
ENTER SITE URL
2104
ENTER SITE DESCRIPTION
2106
ENTER CATEGORY
2108
ENTER KEYWORDS
2110
2112
CANCEL
SAVE OR CANCEL
CANCEL
HP
SP
SAVE
2114
NO
VALID INFORMATION SUBMITTED ?
YES
CONTENT AND/OR DATA DEVICE FORMATTING
2116
CREATE DATABASE ENTRY
2118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

FIG. 22

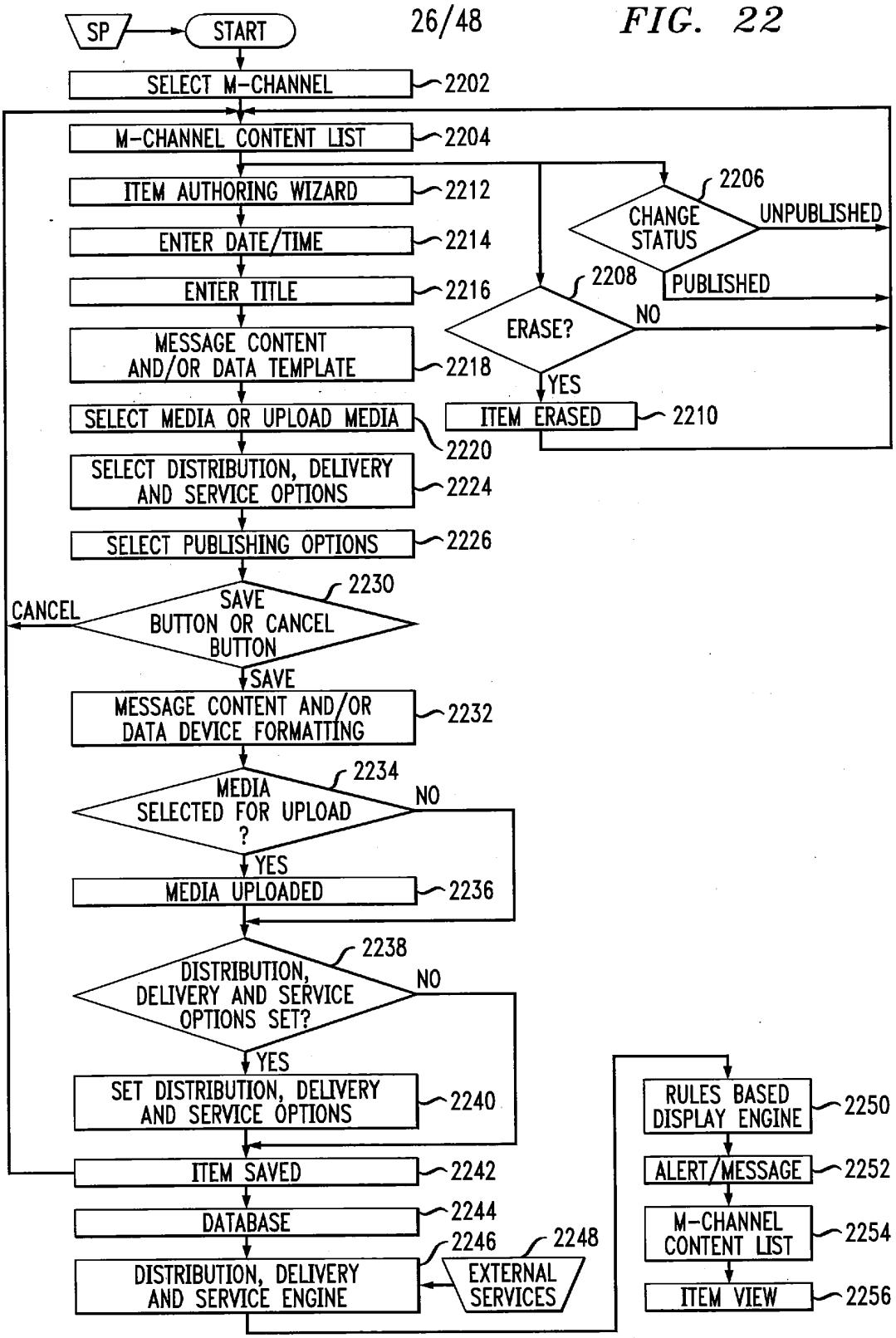

SP
START
SELECT M-CHANNEL
2202
M-CHANNEL CONTENT LIST
2204
ITEM AUTHORING WIZARD
2212
ENTER DATE/TIME
2214
ENTER TITLE
2216
MESSAGE CONTENT AND/OR DATA TEMPLATE
2218
SELECT MEDIA OR UPLOAD MEDIA
2220
SELECT DISTRIBUTION, DELIVERY AND SERVICE OPTIONS
2224
SELECT PUBLISHING OPTIONS
2226
SAVE BUTTON OR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

FIG. 23

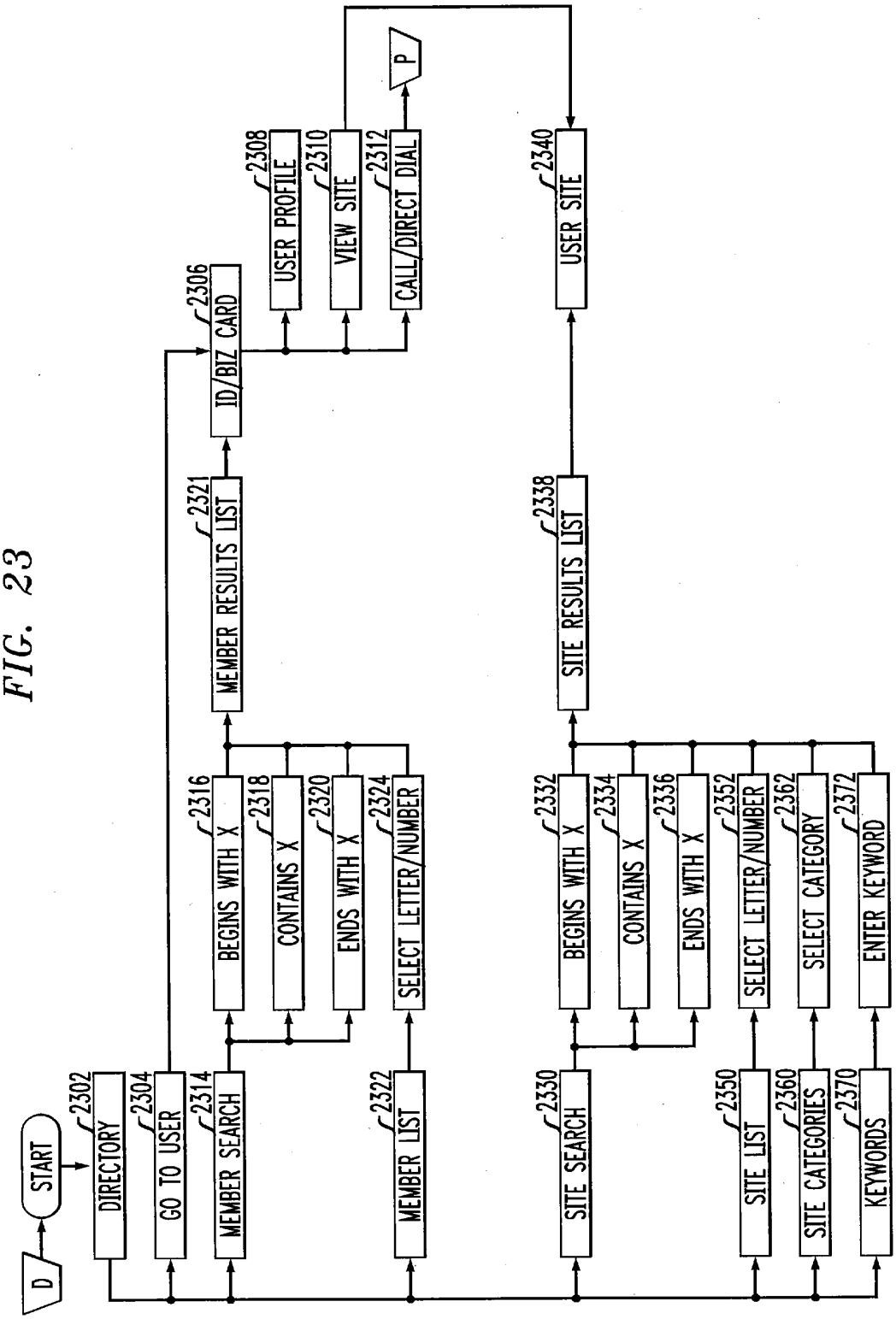
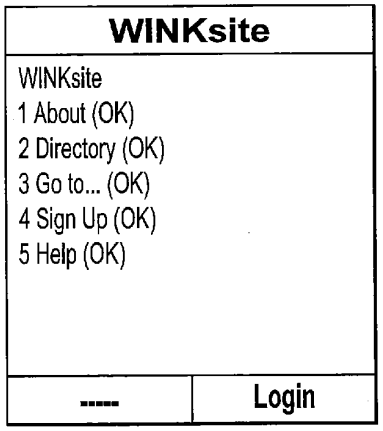
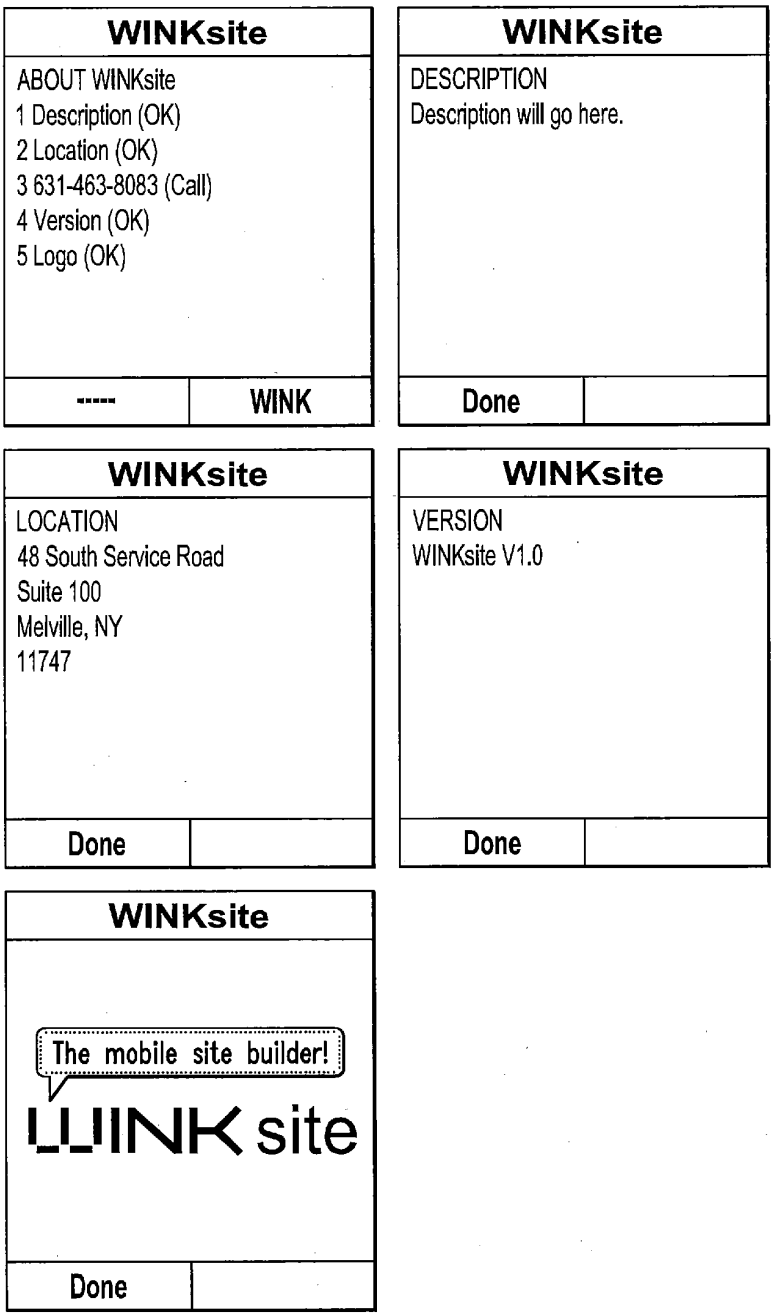

D
START
2302
DIRECTORY
2304
GO TO USER
2314
MEMBER SEARCH
2316
BEGINS WITH X
2318
CONTAINS X
2320
ENDS WITH X
2324
SELECT LETTER/NUMBER
2322
MEMBER LIST
2321
MEMBER RESULTS LIST
2306
ID/BIZ CARD
2308
USER PROFILE
2310
VIEW SITE
2312
CALL/DIRECT DIAL
P
2330
SITE SEARCH
2332
BEGINS WITH X
2334
CONTAINS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

FIG. 24a


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

Login

FIG. 24b


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

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

FIG. 24c

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

FIG. 24d

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

WINKsite
MEMBER SEARCH
Begins with:/Contains:/Ends with:
_____
Find

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

WINKsite
MEMBER LIST
1 0-9 (OK)
2 ABC (OK)
3 DEF (OK)
4 GHI (OK)
5 JKL (OK)
6 MNO (OK)
7 PQRS (OK)
8 TUV (OK)
9 WXYZ (OK)
----- | Done

WINKsite
MEMBER LIST
1 A (OK)
2 B (OK)
3 C (OK)
----- | Done

WINKsite
MEMBERS: A
1-9 of 26
1 Abe (OK)
2 Ace (OK)
...
8 Arvan (OK)
9 Astro (OK)
More... (More)
----- | Done

FIG. 24e

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

WINKsite
SITE SEARCH
Begins with:/Contains:/Ends with:
_____
Find

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

WINKsite
SITE LIST
1 0-9 (OK)
2 ABC (OK)
3 DEF (OK)
4 GHI (OK)
5 JKL (OK)
6 MNO (OK)
7 PQRS (OK)
8 TUV (OK)
9 WXYZ (OK)
----- | Done

WINKsite
SITE LIST
1 A (OK)
2 B (OK)
3 C (OK)
----- | Done

WINKsite
SITES: A
1-9 of 39
1 Abe's Home (abe) (Go)
2 Ace World (john42)(Go)
...
8 Arvan Industries (artie)(Go)
9 Astro's World (fred185) (Go)
More... (More)
----- | Done

FIG. 24f

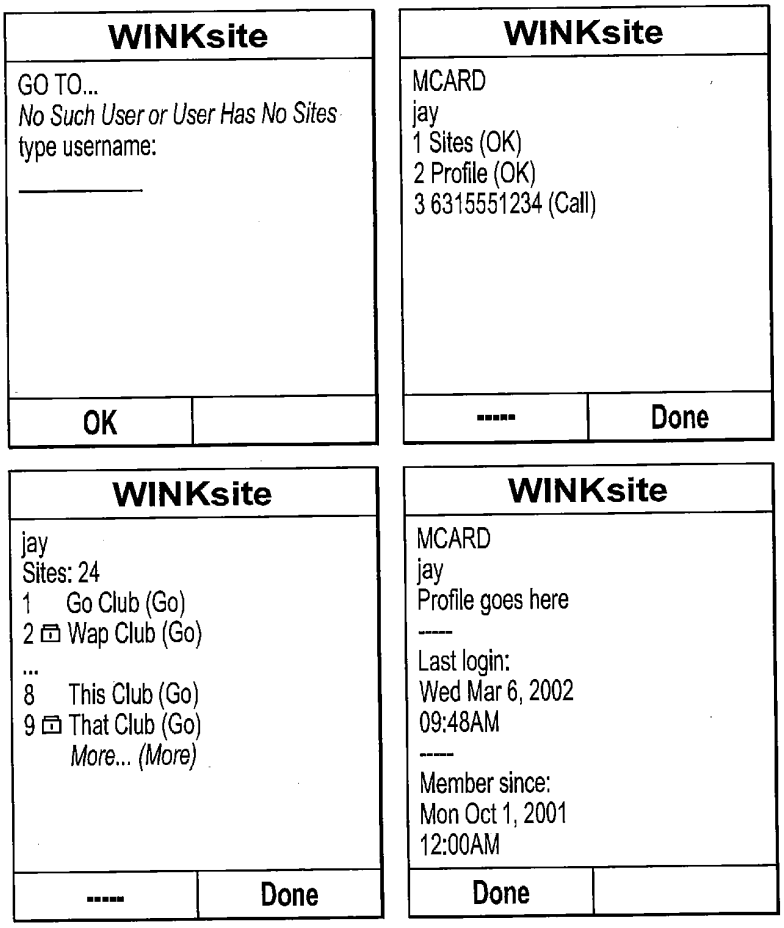


FIG. 24g

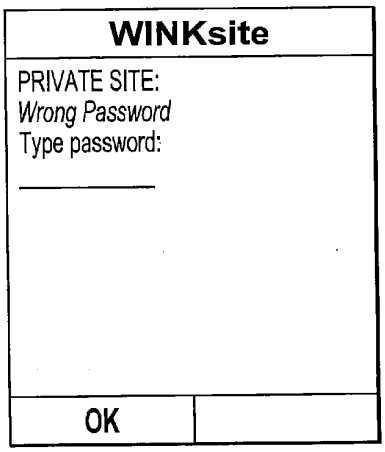


FIG. 25a

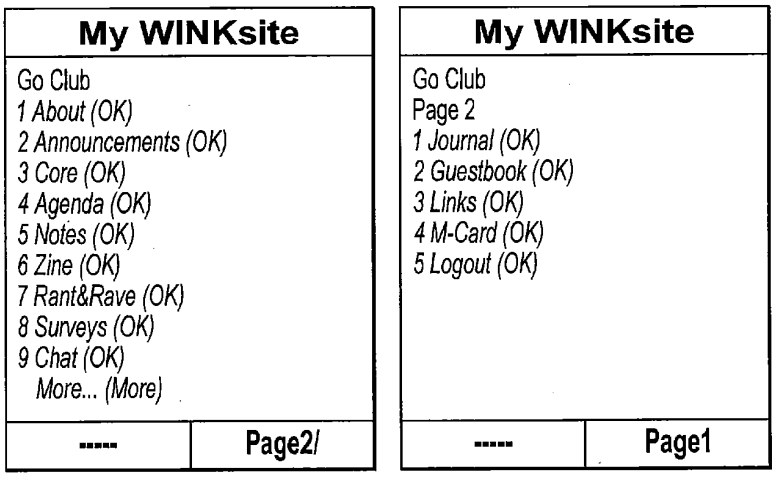


FIG. 25b

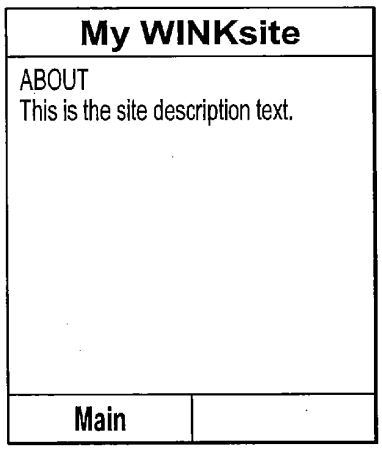


FIG. 25c

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)

----- | Main

My WINKsite

ANNOUCEMENTS
Tue.8 Jan 2002
01:44PM
This is an example announcement.

Done

FIG. 25d

My WINKsite

CORE
1-9 of 74
1 *Services* (OK)
2 *Products* (OK)
...
8 *Rebates* (OK)
9 *Coupons* (OK)
More... (More)

----- | Main

My WINKsite

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.

Done

FIG. 25e

My WINKsite

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

----- | Main

My WINKsite

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

----- | Done

My WINKsite

AGENDA:*TODAY/TM..RW/FUT../PAST*
Event Title A
Thu.21 Feb 2002
08:38PM
@ Event Location
Page 1 of 3
This is the content for this item, which spans many pages, and can go on and on as much as needed...
--- End ---
1 More... (more)

*NOTE: title/dt/tm/loc only on 1st pg.
*NOTE: "End" only on last pg.
*NOTE: "More..." not on last pg.

Done

FIG. 25f

My WINKsite

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

----- | Main

My WINKsite

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

----- | Done

My WINKsite

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

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

Done

FIG. 25g

My WINKsite

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

----- | Main

My WINKsite

NOTES
Name A:
Note Content
Tue.5 Mar 2002
12:34PM

Skip/Done | Done/

My WINKsite

NOTES
Type name:
_____
Type note:
_____

Done

My WINKsite

writing
please wait

My WINKsite

loading
please wait

My WINKsite

Confirm logout

Yes | No

FIG. 25h

My WINKsite

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

-----	Main

My WINKsite

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

-----	Done

My WINKsite

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

-----	Done

My WINKsite

RANT&RAVE
Name A:
Comment A
Mon.11 Jan 2002
02:18PM

Skip/Done	Done/

My WINKsite

RANT&RAVE
Type name:
_____
Type comment:
_____

OK	

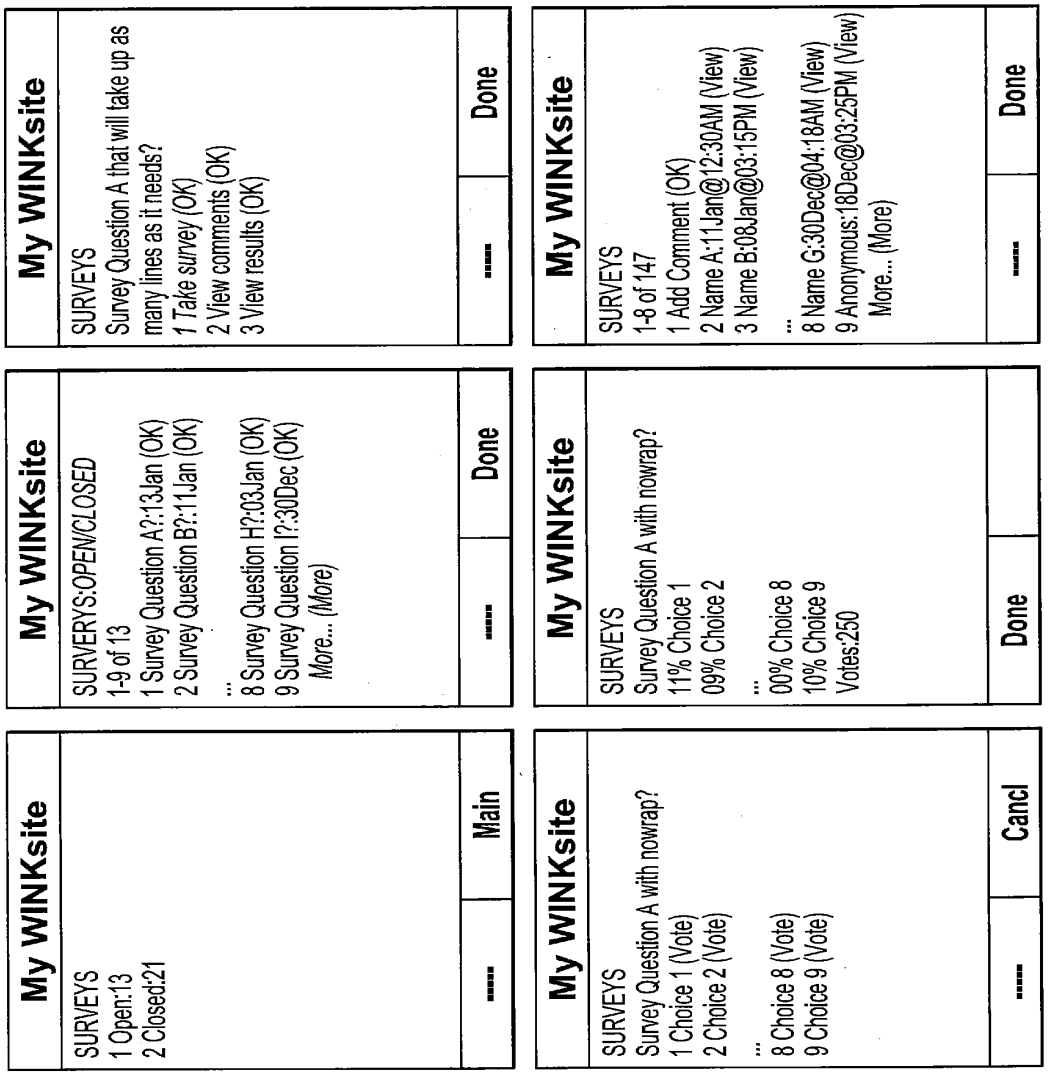
My WINKsite

writing
please wait

My WINKsite

loading
please wait

FIG. 25i


My WINKsite
SURVEYS
1 Open:13
2 Closed:21

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

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

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

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

Done

FIG. 25i cont.

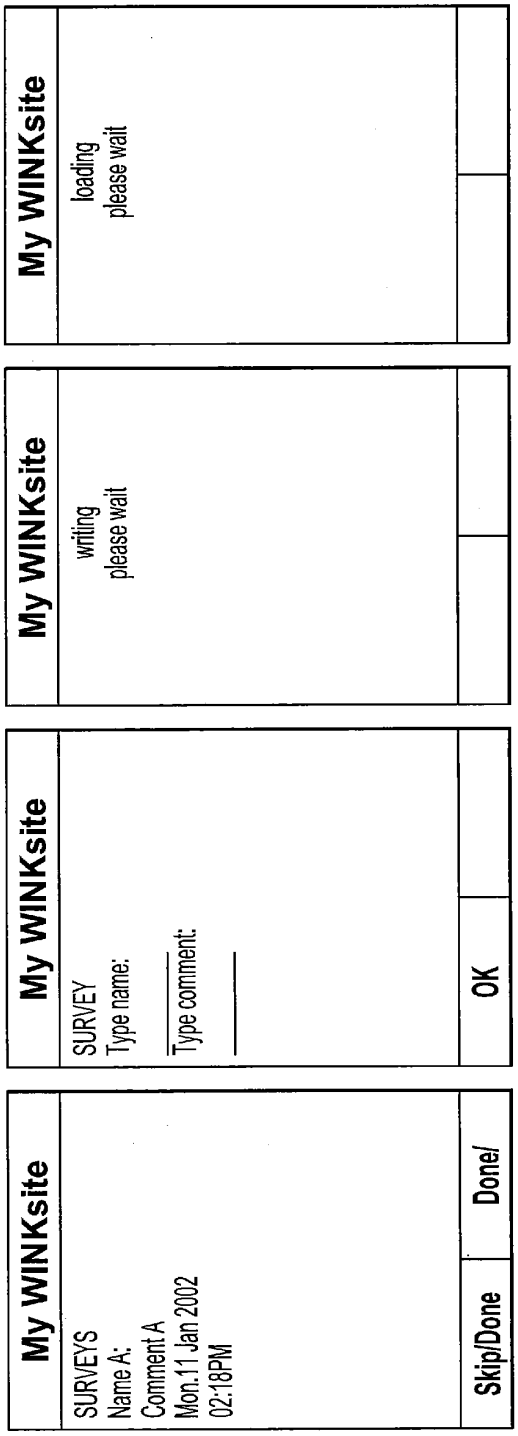

My WINKsite
SURVEYS
Name A:
Comment A
Mon.11 Jan 2002
02:18PM
Skip/Done
Done/
My WINKsite
SURVEY
Type name:
Type comment:
OK
My WINKsite
writing
please wait
My WINKsite
loading
please wait

FIG. 25j

My WINKsite

CHAT DISCLAIMER
WINKsite cannot and does not screen the content included in the chat room. For this reason, WINKsite neither endorses nor assumes responsibility for any content that may be considered objectionable to the user.

Agree	Cancl

My WINKsite

CHAT
Type alias:
_____

OK	

My WINKsite

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

Msg	Menu

My WINKsite

1 Quick text
2 Write msg
3 Exit chat

-----	Done

My WINKsite

Quick Text
1 Emotions
2 Phrases

-----	Done

My WINKsite

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

-----	Done

FIG. 25j cont.

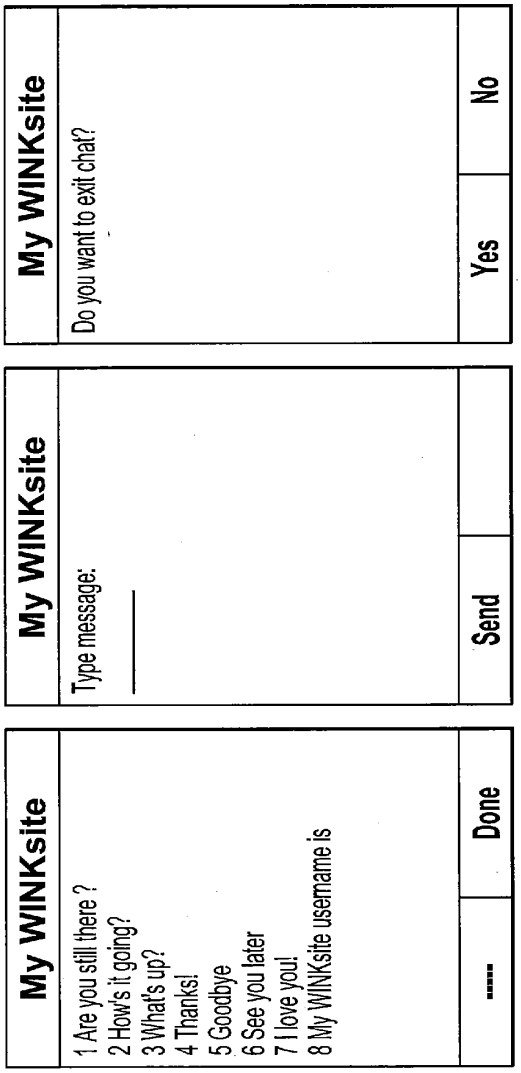

My WINKsite
1 Are you still there ?
2 How's it going?
3 What's up?
4 Thanks!
5 Goodbye
6 See you later
7 I love you!
8 My WINKsite username is
Done
My WINKsite
Type message:
Send
My WINKsite
Do you want to exit chat?
Yes
No

FIG. 25k

My WINKsite

JOURNAL
1-9 of 126
1 11Jan:My Title A (OK)
2 09Jan:My Title B (OK)
...
8 03Jan:My Title H (OK)
9 26Dec:My Title I (OK)
More... (More)

----- | Main

My WINKsite

JOURNAL
My Title
Pg 1 of 3
This is the content for this item, which spans many pages, and can go on and on as much as needed...
Mon.11 Jan 2002
12:34PM
--- End ---
1 More... (More)

**NOTE: title only on 1st pg.*
**NOTE: date/time only on last pg.*
**NOTE: "End" only on last pg.*
**NOTE: "More..." not on last pg.*

Done

FIG. 25l

My WINKsite

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

----	Main

My WINKsite

GUESTBOOK
Name A:
Entry Content
Tue.5 Mar 2002
12:34PM

Skip/Done	Done/

My WINKsite

GUESTBOOK
Type name:
_____
Type entry:
_____

OK	

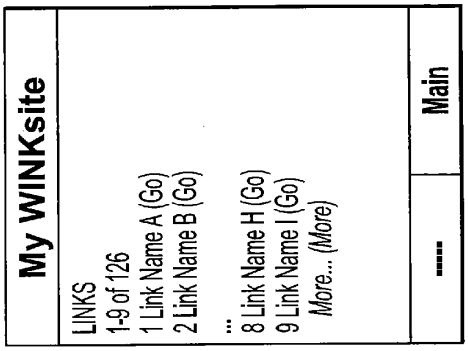
My WINKsite

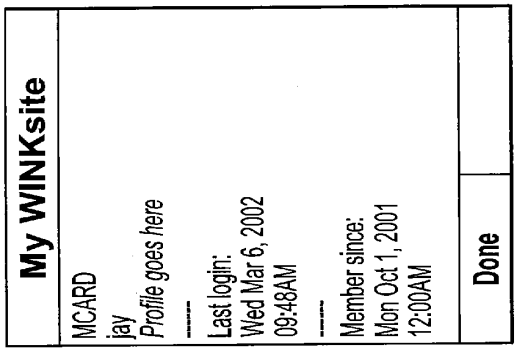
writing
please wait

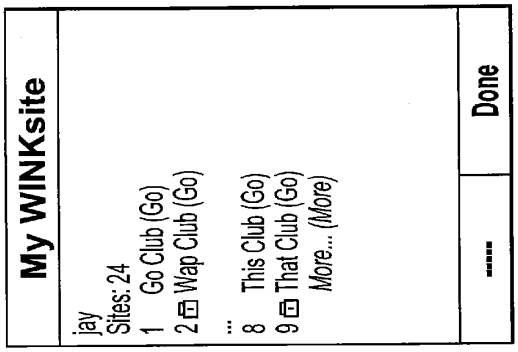
My WINKsite

loading
please wait

FIG. 25m







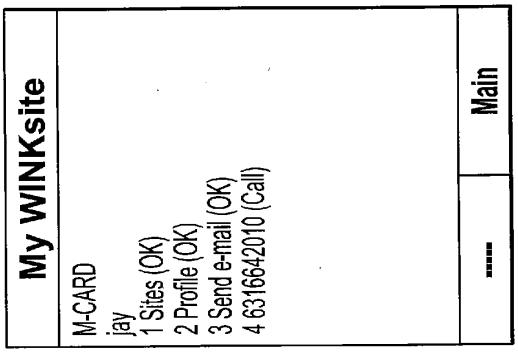


FIG. 25n

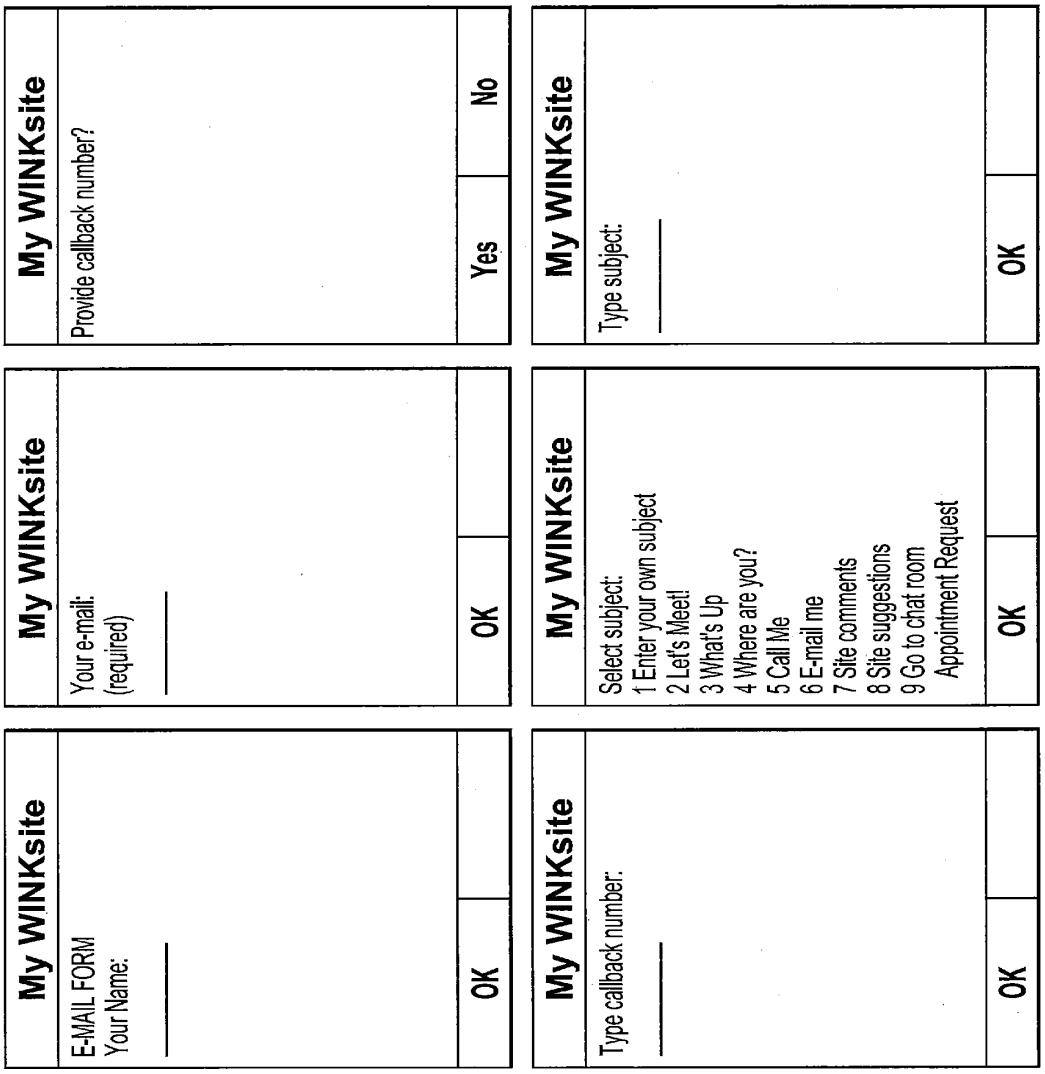
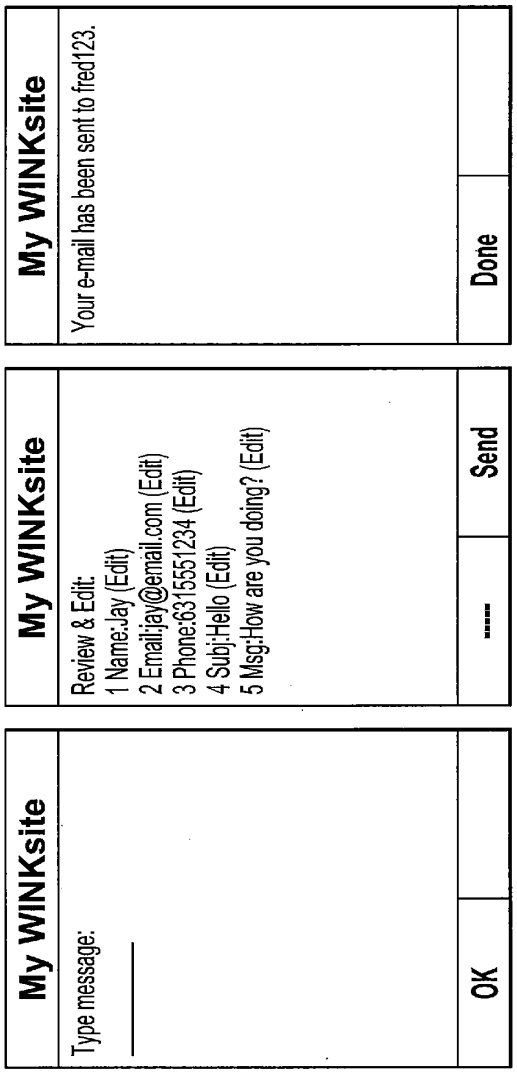

My WINKsite
E-MAIL FORM
Your Name:
OK
My WINKsite
Your e-mail:
(required)
OK
My WINKsite
Provide callback number?
Yes
No
My WINKsite
Type callback number:
OK
My WINKsite
Select subject:
1 Enter your own subject
2 Let's Meet!
3 What's Up
4 Where are you?
5 Call Me
6 E-mail me
7 Site comments
8 Site suggestions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

FIG. 25o

FIG. 25o cont.


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

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

SUPPLEMENTAL DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below next to my name.
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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

the specification of which is attached hereto, unless the following box is checked, in which case the specification:

X was filed on February 15, 2011 as United States Application Number or PCT International Application Number 13/027,519 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.
I hereby claim foreign priority benefits under 35 U.S.C. § 119(a) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified, by checking the box, any foreign application for patent or inventor's certificate, or PCT International Application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s) Priority Not Claimed

(Application Number)	(Country)	(Day/Month/Year Filed)	
(Application Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

(Application Number)	(Filing Date)
60/389,430	June 18, 2002

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application Number)	(Filing Date)	(Status--patented, pending, abandoned)
12/548,928	August 27, 2009	Patented
10/464,526	June 18, 2003	Patented

I hereby appoint Practitioners associated with Customer No.:

31825

as my Attorneys with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

All written communications are to be addressed to:

Customer No. 31825
Ryan, Mason & Lewis, LLP
90 Forest Avenue
Locust Valley, New York 11560

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

Full name of the first inventor: David Walker Harper	
Inventor's signature: >	**Date: >** 9/21/2011
Residence: Bay Shore, New York	**Citizenship: United States of America**
Post Office Address: 37 19th Avenue, Bay Shore, NY 11706	

Full name of the second inventor: Jason James Sabella	
Inventor's signature: >	**Date: >** 9/21/2011
Residence: Coram, New York	**Citizenship: United States of America**
Post Office Address: 1803 Townehouse Drive, Coram, NY 11727	

Attorney Docket Number: 1018-2 CON2

[illegible]	
[illegible]	Date
[illegible]	Citizenship: United States of America
[illegible] Avenue, Tampa, FL 33606	

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below next to my name.
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

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

the specification of which is attached hereto, unless the following box is checked, in which case the specification:

X was filed on June 18, 2003 as United States Application Number or PCT International Application Number 10/464,526 and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.
I hereby claim foreign priority benefits under 35 U.S.C. § 119(a) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified, by checking the box, any foreign application for patent or inventor's certificate, or PCT International Application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s) Priority Not Claimed

(Application Number)	(Country)	(Day/Month/Year Filed)	
		/ /	
		/ /	

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

(Application Number)	(Filing Date)
60/389,430	June 18, 2002

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application Number)	(Filing Date)	(Status--patented, pending, abandoned)

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Joseph B. Ryan	**Reg. No. 37,922**
Kevin M. Mason	**Reg. No. 36,597**
William E. Lewis	**Reg. No. 39,274**
Robert J. Mauri	**Reg. No. 41,180**
Wayne L. Ellenbogen	**Reg. No. 43,602**
Michael J. Chang	**Reg. No. 46,611**
Robert W. Griffith	**Reg. No. 48,956**

Please address all telephone calls to **Joseph B. Ryan** at telephone number: **(516) 759-7517**
Please address all correspondence to:

Ryan, Mason & Lewis, LLP
90 Forest Avenue
Locust Valley, New York 11560

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

Full name of the first inventor: David Walker Harper	
Inventor's signature: >	**Date: >** 8/6/03
Residence: Bay Shore, New York	**Citizenship: United States of America**
Post Office Address: 37 19th Avenue, Bay Shore, New York 11706	

Full name of second inventor: Jason James Sabella	
Inventor's signature: >	**Date: >** 8/6/03
Residence: Coram, New York	**Citizenship: United States of America**
Post Office Address: 100 Villa D'Est Drive, Apt. A3, Coram, New York 11727	

Full name of third inventor: William Henry Munch	
Inventor's signature: >	**Date: >** 8/6/03
Residence: Huntington, New York	**Citizenship: United States of America**
Post Office Address: 136 Nassau Road, Huntington, New York 11743	

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 CON4

Filed as Small Entity

Track I Prioritized Examination - Nonprovisional Application under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	70	70
Utility Search Fee	2111	1	300	300
Utility Examination Fee	2311	1	360	360
Request for Prioritized Examination	2817	1	2000	2000
Pages:				
Claims:				
Claims in excess of 20	2202	5	40	200
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Publ. Fee- Early, Voluntary, or Normal	1504	1	0	0
PROCESSING FEE, EXCEPT PROV. APPLS.	2830	1	70	70
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**3000**

Electronic Acknowledgement Receipt

EFS ID:	18151922
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan
Filer Authorized By:	
Attorney Docket Number:	1018-2 CON4
Receipt Date:	07-FEB-2014
Filing Date:	
Time Stamp:	18:07:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$3000
RAM confirmation Number	4952
Deposit Account	500762
Authorized User	RYAN, JOSEPH B.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)

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

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

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	TrackOne Request	1018-2CON4_Request.pdf	196966 38e3dbfbd13068e9a43a17557ca75671e084ac5a	no	1
Warnings:					
Information:					
2	Application Data Sheet	1018-2CON4_ADS.pdf	1059075 6728f987e5ddee9c9a729f85154a0f1da8e4f4d5	no	6
Warnings:					
Information:					
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

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	45	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN458-UKN464, UKN477-UKN479, UKN481-UKN483, UKN485-UKN492, UKN495, UKN496, UKN498, UKN501-UKN548, UKN559-UKN565, UKN567-UKN572, UKN574-UKN600, UKN602-UKN609, UKN611-UKN648, UKN650-UKN718, UKN720-UKN890, UKN892-UKN896, UKN898, UKN900-1009, UKN1011-1051 and UKN1053-UKN1097.	☐
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	49	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1889-UKN2723.	☐
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CERTIFICATION STATEMENT

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

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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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)	2014-02-21
Name/Print	Joseph B. Ryan	Registration Number	37922

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☐ See attached certification statement.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

CERTIFICATION STATEMENT

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☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-02-21
Name/Print	Joseph B. Ryan	Registration Number	37922

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Electronic Acknowledgement Receipt

EFS ID:	18268091
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/James Lyons
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON4
Receipt Date:	21-FEB-2014
Filing Date:	
Time Stamp:	15:32:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON4_IDS1.pdf	2542803 292b70b4c0ae9ffd11c39328588693bccaa1e516	no	19

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	1	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN3301-UKN3399.	☐
	2	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS9 containing documents numbered UKN3476-UKN3550.	☐
	3	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS10 containing documents numbered UKN3551-UKN3584, UKN3592-UKN3597, UKN3600, UKN3602-UKN3609, UKN3611, UKN3613, UKN3614, UKN3616, UKN3620, UKN3622, UKN3623, UKN3625, UKN3627, UKN3629-UKN3642, UKN3644-UKN3657, UKN3659 and UKN3660.	☐
	4	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of training documents titled UKNT1 containing documents numbered UKN3662, UKN3663, UKN3665, UKN3667-UKN3672, UKN3674, UKN3675, UKN3677, UKN3679 and UKN3680.	☐
	5	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN458-UKN464, UKN477-UKN479, UKN481-UKN483, UKN485-UKN492, UKN495, UKN496, UKN498, UKN501-UKN548, UKN559-UKN565, UKN567-UKN572, UKN574-UKN600, UKN602-UKN609, UKN611-UKN648, UKN650-UKN718, UKN720-UKN890, UKN892-UKN896, UKN898, UKN900-1009, UKN1011-1051 and UKN1053-UKN1097.	☐
	6	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1099-UKN1196, UKN1198, UKN1200-UKN1306, UKN1308-UKN1311, UKN1314, UKN1316-UKN1339, UKN1341-UKN1344, UKN1347, UKN1349-UKN1359, UKN1380-UKN1383, UKN1385-UKN1388, UKN1391 and UKN1393-UKN1420.	☐
	7	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN1422-UKN1425, UKN1429-UKN1444, UKN1447-UKN1708, UKN1710-UKN1714, UKN1716, UKN1718-UKN1741, UKN1743-UKN1745 and UKN1748-UKN1753.	☐
	8	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of training documents titled UKNT1 containing documents numbered UKN3662, UKN3663, UKN3665, UKN3667-UKN3672, UKN3674, UKN3675, UKN3677, UKN3679 and UKN3680.	☐
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	12	R. HOEG, "Virtual Accordian Clubs from Yahoo!(Minnesota Accordion Club)," posted on the Internet through Usenet on December 1, 1998, copy pulled from google Groups (http://groups.google.com/group/rec.music.makers. squeezebox/msg/bad62e373462c6a6).	☐
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	47	S. HOCHSTETLER ET AL., "Introducing Tivoli Personalized Services Manager 1.1," IBM Redbooks, June 2001, 340 pages.	☐

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EXAMINER SIGNATURE

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	1	"AOL on Pocketnet-alt.cellular," Google Groups, at http://groups.google.com/group/alt.cellular/browse_thread/7ee068aee823a48c/411, 2 pages.	☐
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	11	M. KUSZPA, "room33 With My WAP Page," Maciej Kuszpa on Mobile Social Networks and Mobile Learning, 5 pages.	☐

EFS Web 2.1.17

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

	12	"room33.com Product Information," Ciao! from bing, 2 pages.	☐
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	22	N. SWARTZ, "Talkin' About Generation Y," Connected Planet, October 15, 2000, at http://connectedplanetonline.com/wireless/mag/wireless_talkin_generation/ on April 21, 2010, 3 pages.	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

	23	Bolt.com, "Info," archived at http://web.archive.org/web/20011203081541/www.bolt.com/info/default.asp	☐
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	25	Transcript of Claim Construction Hearing, Wireless Ink Corporation v. Facebook, Inc., Case No. 10-CV-1841 (PKC), S. D.N.Y., Oct. 21, 2010, 75 pages.	☐
	26	Memorandum and Order, Wireless Ink Corporation v. Facebook, Inc., Case No. 10-CV-1841 (PKC), S.D.N.Y., May 26, 2011, 29 pages.	☐
	27	Excerpt of Facebook's Response to Wireless Ink's Interrogatory No. 9, Wireless Ink Corporation v. Facebook, Inc., Case No. 10-CV-1841 (PKC), S.D.N.Y., June 22, 2011, pp. 29-36.	☐
	28	Exhibit A of Facebook's Response to Wireless Ink's Interrogatory No. 9, Wireless Ink Corporation v. Facebook, Inc., Case No. 10-CV-1841 (PKC), S.D.N.Y., June 22, 2011, 6 pages.	☐
	29	Excerpt of Google's Response to Wireless Ink's Interrogatory No. 9, Wireless Ink Corporation v. Facebook, Inc., Case No. 10-CV-1841 (PKC), S.D.N.Y., June 22, 2011, pp. 20-32.	☐
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	31	Amended Answer of Defendant MySpace, Inc., Wireless Ink Corporation v. Facebook, Inc., Case No. 11-CV-1751 (PKC), Document No. 42-1, S.D.N.Y., June 8, 2011, pp. 1-9.	☐
	32	K. MALY ET AL., "Personalized Portal for Wireless Devices," included as Exhibit B of Amended Answer of Defendant MySpace, Inc., Wireless Ink Corporation v. Facebook, Inc., Case No. 11-CV-1751 (PKC), Document No. 42-3, S.D.N. Y., June 8, 2011, 3 pages.	☐
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	Filing Date	2014-02-07
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	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

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

EFS Web 2.1.17

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-02-21
Name/Print	Joseph B. Ryan	Registration Number	37922

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

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/175,768	02/07/2014	2414	930	1018-2 CON4	25	3

CONFIRMATION NO. 5913

FILING RECEIPT

OC000000066802320

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

Date Mailed: 02/27/2014

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

Inventor(s)

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

Applicant(s)

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

Assignment For Published Patent Application

Wireless Ink Corporation, East Islip, NY

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

Domestic Priority data as claimed by applicant

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

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

If Required, Foreign Filing License Granted: 02/25/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/175,768**

Projected Publication Date: To Be Determined - pending completion of Corrected Papers

Non-Publication Request: No

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

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

Preliminary Class

370

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
14/175,768

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	25 minus 20 =	* 5	x 40 =	200	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	930		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

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

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4

CONFIRMATION NO. 5913

FORMALITIES LETTER

OC000000066802321

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

Date Mailed: 02/27/2014

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

An application number and filing date have been accorded to this application. The application is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given TWO MONTHS from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- A substitute specification in compliance with 37 CFR 1.52, 1.121(b)(3), and 1.125, is required. The substitute specification must be submitted with markings and be accompanied by a clean version (without markings) as set forth in 37 CFR 1.125(c) and a statement that the substitute specification contains no new matter (see 37 CFR 1.125(b)). The specification, claims, and/or abstract page(s) submitted is not acceptable and cannot be scanned or properly stored because:
  - The application contains drawings, but the specification does not contain a brief description of the several views of the drawings as required by 37 CFR 1.74 and 37 CFR 1.77(b)(9).
- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
  - More than one figure is present and each figure is not labeled "Fig." with a consecutive Arabic numeral (1, 2, etc.) or an Arabic numeral and capital letter in the English alphabet (A, B, etc.)(see 37 CFR 1.84(u)(1)). See Figure(s) 17, 24, 25. A brief description of the several views of the drawings (see 37 CFR 1.74) should be added or amended to correspond to the corrected numbering of the figures. See also 37 CFR 1.77(b)(9).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

Items Required To Avoid Processing Delays:

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

A new inventor's oath or declaration that identifies this application (e.g., by Application Number and filing date) is required. The inventor's oath or declaration does not comply with 37 CFR 1.63 in that it:

- does not state that the above-identified application was made or authorized to be made by the person executing the oath or declaration.

  David Walker Harper
  Jason James Sabella
  William Henry Munch

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web, including a copy of this Notice and selecting the document description "Applicant response to Pre-Exam Formalities Notice". https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant: David Walker Harper et al.
Docket No.: 1018-2 CON4
Serial No.: 14/175,768
Filing Date: February 7, 2014
Group: 2414
Examiner: TBD

Title: Method, Apparatus and System for Management of Information Content for Enhanced Accessibility over Wireless Communication Networks

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RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

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

Sir:

In response to the Notice to File Corrected Application Papers, Applicant hereby submits the following:

(1) Substitute Specification under 37 C.F.R. §1.125

(a) Copy of the "Marked-Up" Substitute Specification under 37 C.F.R. §1.125(c);

(b) Copy of the "Clean" Substitute Specification under 37 C.F.R. §1.125(c);

(2) Instruction to Amend by Substitute Specification under 37 C.F.R. §1.121(3)(i) ; and

(a) Statement under 37 C.F.R. §1.125(b).

In response to the Notice to File Corrected Application Papers dated February 27, 2014, Applicant submits herewith a "Marked-Up" and a "Clean" version of a Substitute Specification in accordance with 37 C.F.R. §1.125. Furthermore, Applicant requests that the "Clean" version of the Substitute Specification replace the Specification filed on February 7, 014, under 37 C.F.R. §1.121(b)(3)(i).

In accordance with 37 C.F.R. §1.125(c), the "Marked-Up" Substitute Specification is submitted with markings showing all the changes relative to the immediate prior version of the Specification of record. Namely, the "Marked-Up" Substitute Specification indicates that the Specification, as filed on March 14, 2013, has been amended to include a brief description of Figure 17b and Figures 24a through 25o. Additionally, in accordance with 37 C.F.R. §1.125(c), a "Clean" version of the Substitute Specification, with the aforementioned amendment, accompanies the "Marked-Up" version of the Substitute Specification.

Applicant further asserts, under 37 C.F.R. §1.125(b), that no new matter has been added to the "Clean" or "Marked-Up" versions of the Substitute Specification.

Applicant believes that this amendment places this application in condition for examination.

Respectfully submitted,

/Joseph B. Ryan/

Date: March 21, 2014

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Attachment(s):
"Marked-Up" version of the Substitute Specification
"Clean" version of the Substitute Specification

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

Related Application(s)

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

Field of the Invention

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

Background of the Invention

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

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

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

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

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

Summary of the Invention

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

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

In accordance with another aspect of the invention, an apparatus comprises a processing element comprising a processor coupled to a memory. The processing element provides at least a portion of an interface permitting a first user to control activation of a mobile

information channel through which the first user can share access to content with a plurality of additional users. The processing element is configured to activate the mobile information channel responsive to input received from the first user via the interface, insert content provided by the first user into the mobile information channel, receive additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network, insert at least a portion of the additional content into the mobile information channel, and integrate into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

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

Brief Description of the Drawings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Detailed Description

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

FIG. 1A shows an example network-based communication system 10 configured in accordance with an illustrative embodiment of the invention. The system 10 includes a wireless network 12 coupled to the Internet 14, a set of mobile devices 15, a set of servers 16 and a set of user terminals 18. More specifically, mobile devices 15-1, . . . 15-*n* are coupled to the wireless network 12, while servers 16-1, . . . 16-*k* and user terminals 18-1, . . . 18-*r* are coupled to the Internet 14. The numbers *n*, *k*, and *r* are purely arbitrary, provided for simplicity and

clarity of illustration only, and in a given implementation of this illustrative embodiment can take on any desired value. Also, alternative embodiments of the invention need not include the particular system elements shown, and may include other elements of a type and configuration known to those skilled in the art, in place of or in addition to the particular elements shown.

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

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

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

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

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

player or other type of audio player, a pager, a watch or other timepiece, a camera, a portable game player, etc.

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

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

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

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

In accordance with one aspect of the invention, the system 10 in the illustrative embodiment provides at least one content management site accessible to a system user. The user may be a user associated with one of the mobile devices 15, or any other system user. The content management site may be supported by one or more of the servers 16, and may be accessed by the user over Internet 14 via one of the user terminals 18. The content management

site permits the user to enter information in accordance with a specified format comprising a plurality of selectable mobile information channels each corresponding to an information category. The mobile information channels are also referred to as "M-channels" herein, and will be described in greater detail below. The entered information is processed to generate a mobile web site comprising information content that is accessible via one or more of the mobile devices 15 over the wireless network 12 of the system 10. The information content of the mobile site is preferably configured such that a persistent version thereof is accessible via the one or more mobile devices 15 over the wireless network 12.

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

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

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

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

over the wireless network. Other types of information associated with wireless networking functionalities may also or alternatively be used.

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

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

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

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

A given mobile site in accordance with the invention can be generated for a group comprising multiple members having a common interest. For example, a mobile site may be generated for a family, a group of friends, a club, a sports team, a business, a sales force, a civic group, a fan group, a political party, a campaign, a charity, or any other type of multi-member organization. Such a site may be used for efficient dissemination of relevant information to group members via the wireless network 12. For example, the site can be used to generate messages, using instant messaging (IM), SMS, MMS, pages, emails, voice-over-IP (VoIP) calls, cellular telephone calls, or any other suitable messaging format, that are sent to organization members over the wireless network. Such a message from a given member of the organization can direct other members to access the mobile site to obtain additional information regarding events, news, cancellations, reschedulings, updates, polls, special requests, etc. Organization members can easily and efficiently post information and generate messages to other members so as to facilitate collaboration and other types of interaction.

A given mobile site, also by way of example, may be associated with an event, and information identifying the event and its associated mobile site may be transmitted via the wireless network 12 to mobile devices of one or more users that are determined to be likely to have an interest in the subject matter of the event. The event may be a movie, a concert, a sporting event, a political rally, a contest, a promotion, particular goods or services being

offered for sale by a vendor at certain prices or on certain conditions, etc. Such interested users may be determined, for example, by comparing generalized demographic data associated with the event with personal demographic data previously stored for the system users, or utilizing other marketing data based techniques. A mobile site of this type is especially useful for implementing follow-up marketing actions, user registration, etc.

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

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

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

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

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

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

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

The above-noted M-channels will now be described in greater detail. As mentioned previously, M-channels are utilized at the content management site of the illustrative embodiment to facilitate the generation of mobile sites and the management of associated content. More specifically, the M-channels allow unsophisticated users to easily and efficiently author message data or other types of information content to be made accessible via a collaborative workspace, a data mailbox, a collaborative community, or other type of mobile site or portion thereof generated or otherwise managed in the system 10. Features such as task,

action, event, location, delivery or collaborative enabling of specified M-channel content may be specified along with access methods, automatic generation of wirelessly accessible navigation menus, content presentation views, etc.

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

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

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

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

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

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

data integration server 37, and a services integration suite 38 associated with a services integration server 39. Each of the servers 33, 35, 37 and 39 may comprise one or more of the servers 16 or other elements shown in FIG. 1A, or suitable portions or combinations thereof.

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

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

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

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

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

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

the integration of information associated with these wireless networking functionalities with the content of the mobile site generated via the content management site.

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

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

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

The content management site may be viewed as being part of a mobile communications publishing platform provided by the system 10 of FIG. 1A. This platform integrates aspects of wireless network functionality with mobile site content generation, thereby facilitating user interaction via the mobile devices 15. The content management site in the illustrative embodiment is designed to generate and otherwise manage dynamic, time-sensitive, task-oriented mobile sites, including wireless collaborative workspaces and communities. The content management site allows content such as data, media, multimedia, messages, news, features, events, polls, competitions and advertising to be rapidly created, entered into the system, and then subsequently syndicated, distributed, shared, collaborated with or acted upon by users of mobile devices.

By utilizing the content management site, system users can create one or more personal or business mobile sites with various sets of features, and then share such sites via the mobile Internet or other wireless network with friends, family, colleagues, or other groups of any type. The content management site makes it simple for unsophisticated users to upload, enter, create,

syndicate, distribute or otherwise manage content that is important to them, in a manner that allows such content to be accessed, shared, and acted upon from a mobile device.

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

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

A registration process is preferably provided in order to allow users to establish an account with the system. Such a process can be initiated by activation of the hyperlink associated with block 104. Previously-registered users can login to their accounts by activating the hyperlink associated with block 102. Details of the registration and login processes associated with respective blocks 104 and 102 will be described below in conjunction with the respective flow diagrams of FIGS. 19 and 20.

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

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

Block 106 in FIG. 1D represents a display region containing a link to an optional logoff process. The logoff process enables a registered user who has previously logged in to activate a control so as to redirect his or her browser to the non-customized version of home page 100.

This feature is useful, for example, in a situation in which multiple users share the same personal computer or other terminal. More specifically, a given registered user who has logged in may, without turning off the computer or closing its Internet connection, and even without closing the browser or pointing it to another URL, conceal and prevent further access to his or her account information while also enabling another registered or unregistered user to access the home page 100.

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

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

An example of a preference feature that may be made available only to registered users is an address book feature. This feature can be accessed by activating the link associated with block 320 in FIG. 3. Such a feature allows the names, email addresses, mobile telephone numbers and other contact information of potential message recipients to be recorded and then easily selected when a message is to be sent.

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

If any of the other individuals are not registered users, then an attempt may be made to obtain an email address for each of those other non-registered users. For any such non-registered users for which an email address is obtained, an email message may be sent

containing a link, along with appropriate explanatory text, to the site registration process to be described in conjunction with FIG. 19. After completing the registration process, the individual will be given the option of accepting or declining the information sharing proposal.

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

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

Yet another preference feature that may be made available to registered users is an ability to post one or more messages on a "community bulletin board" that is accessible to both registered and non-registered users. This feature allows non-registered users to become aware of the messages posted by registered users, thereby encouraging further registrations and increasing use of the site.

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

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

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

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

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

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

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

mobile sites associated with that user, and a link 708 allowing the user to build a new mobile site.

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

FIG. 8 shows an example of a main menu page of the content management site for managing a given mobile site associated with a system user. This main menu page screenshot may be viewed as corresponding generally to the main menu page 300 schematically shown in FIG. 3. The main menu page in this example includes information 802 identifying user account information and the particular mobile sites associated with that user, page navigational links 804, mobile site information 806 associated with a selected one of the mobile sites associated with the user, M-channel information 808, and a delete site field 810.

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

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

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

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

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

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

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

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

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

FIG. 21 shows an example process for creating a mobile site using the content management site. This process may be accessed, for example, upon completion of the registration process, or upon activation of the link associated with block 226 of FIG. 2. After initiation of the mobile site creation process in step 2100, the user is prompted in step 2102 to

enter a site title, in step 2104 to enter a site URL, in 2106 to enter a site description, in step 2108 to enter a category, and in step 2110 to enter keywords. Steps 2102 to 2110 should be viewed as examples of the type of information a registered user could be asked to enter in order to create the mobile site, but a given mobile site in accordance with the invention can of course be created using other types of information.

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

Step 2122 represents the start of an M-channel selection wizard. From the M-channel selection wizard step, the user can choose a template, task and/or goal in step 2124, choose appropriate fields in step 2126, and select desired options in step 2130. At this point, the process generates the appropriate rules for the display engine in step 2132, and then activates or otherwise generates one or more M-channels for the mobile site in step 2134. The result is a site specific M-channel list as indicated in step 2146, an example of which was previously described in conjunction with the screenshot of FIG. 8. Supplementary to this portion of the process, the user is also provided with an opportunity in steps 2136, 2138, 2140, 2142 and 2144 of FIG. 21 to add additional M-channels, options, external services, and the like to the mobile site. Any such added elements are taken into account in generating the site specific M-channel list in step 2146. At the completion of step 2146, the process returns to the main menu (MM), from which the M-channel wizard step 2122 can again be initiated to further modify the previously-created mobile site.

Turning now to FIG. 22, an example process for content authoring at the content management site is shown. The user in step 2202 selects a particular M-channel for which the content is to be authored. Step 2204 generates an M-channel content list, and step 2206 allows the status of the various content items to be changed from published to unpublished and vice-versa. Steps 2208 and 2210 allow content items on the M-channel content list to be erased. From the M-channel content list generated in step 2204, an item authoring wizard may be

initiated in step 2212. This wizard facilitates the authoring of a content item by prompting the user to enter date and time in step 2214, to enter a title in step 2216, to enter message content, data template or both in step 2218, to select or upload media in step 2220, to select distribution, delivery and service options in step 2224, and to select publishing options in step 2226.

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

Step 2230 determines if a save button or a cancel button has been activated. Activation of the cancel button returns the process to the M-channel content list in step 2204. Activation of the save button causes formatting of the message content and/or data device in step 2232. Step 2234 determines if media has been selected for upload. If so, the selected media is uploaded in step 2236. In any case, step 2238 then determines if distribution, delivery and service options have been set. A positive determination results in the setting of the distribution, delivery and service options in step 2240. The process then proceeds to step 2242, in which the generated content item and its associated settings are saved, preferably by storage in a database or other memory or storage device of the system, as indicated at 2244. The process then returns to the M-channel content list in step 2202.

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

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

It is also possible from the directory step 2302 to initiate a site search in step 2330, which may include specifying in steps 2332, 2334 and 2336 the respective beginning, containing or ending parameters of the desired site. This leads to a site results list in step 2338 that can be used to retrieve one or more user mobile sites in step 2340. Other mobile site directory functions include generation of a site list in step 2350, leading to user selection of a letter and/or a number in step 2352, generation of site categories in step 2360, leading to user selection of a category in step 2362, and generation of keywords in step 2370, leading to user entry of a particular keyword or keywords in step 2372. Each of these functions results in generation of a site results list in step 2338, from which a user mobile site can be accessed in step 2340.

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

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

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

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

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

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

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

Claims

What is claimed is:

1. A method comprising:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

17. The method of claim 1 wherein the mobile information channel comprises a chat channel facilitating interaction between the first user and the plurality of additional users.

18. The method of claim 1 wherein the mobile information channel is associated with an entertainment-related entity.

19. The method of claim 18 wherein the entertainment-related entity comprises at least one of a television program, a movie and a music artist.

20. The method of claim 1 wherein the mobile information channel is associated with a mobile device application.

21. The method of claim 20 wherein the mobile device application comprises a personalized content application.

22. A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs for use in managing information content in a network-based communication system, wherein said executable program code when executed

by a processing element of the communication system implements the steps of the method of claim 1.

23. An apparatus comprising:

a processing element comprising a processor coupled to a memory;

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

the processing element being configured to:

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

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

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

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

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

24. The apparatus of claim 23 wherein the processing element comprises at least one server accessible over the Internet via a network interface.

25. A network-based communication system, comprising:

a plurality of servers configured to communicate over a network;

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

wherein said at least one server is configured to:

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

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

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

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

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

Abstract

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

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

Related Application(s)

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

Field of the Invention

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

Background of the Invention

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

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

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

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

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

Summary of the Invention

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

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

In accordance with another aspect of the invention, an apparatus comprises a processing element comprising a processor coupled to a memory. The processing element provides at least a portion of an interface permitting a first user to control activation of a mobile

information channel through which the first user can share access to content with a plurality of additional users. The processing element is configured to activate the mobile information channel responsive to input received from the first user via the interface, insert content provided by the first user into the mobile information channel, receive additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network, insert at least a portion of the additional content into the mobile information channel, and integrate into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

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

Brief Description of the Drawings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Detailed Description

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

FIG. 1A shows an example network-based communication system 10 configured in accordance with an illustrative embodiment of the invention. The system 10 includes a wireless network 12 coupled to the Internet 14, a set of mobile devices 15, a set of servers 16 and a set of user terminals 18. More specifically, mobile devices 15-1, . . . 15-*n* are coupled to the wireless network 12, while servers 16-1, . . . 16-*k* and user terminals 18-1, . . . 18-*r* are coupled to the Internet 14. The numbers *n*, *k*, and *r* are purely arbitrary, provided for simplicity and

clarity of illustration only, and in a given implementation of this illustrative embodiment can take on any desired value. Also, alternative embodiments of the invention need not include the particular system elements shown, and may include other elements of a type and configuration known to those skilled in the art, in place of or in addition to the particular elements shown.

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

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

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

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

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

player or other type of audio player, a pager, a watch or other timepiece, a camera, a portable game player, etc.

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

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

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

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

In accordance with one aspect of the invention, the system 10 in the illustrative embodiment provides at least one content management site accessible to a system user. The user may be a user associated with one of the mobile devices 15, or any other system user. The content management site may be supported by one or more of the servers 16, and may be accessed by the user over Internet 14 via one of the user terminals 18. The content management

site permits the user to enter information in accordance with a specified format comprising a plurality of selectable mobile information channels each corresponding to an information category. The mobile information channels are also referred to as "M-channels" herein, and will be described in greater detail below. The entered information is processed to generate a mobile web site comprising information content that is accessible via one or more of the mobile devices 15 over the wireless network 12 of the system 10. The information content of the mobile site is preferably configured such that a persistent version thereof is accessible via the one or more mobile devices 15 over the wireless network 12.

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

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

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

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

over the wireless network. Other types of information associated with wireless networking functionalities may also or alternatively be used.

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

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

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

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

A given mobile site in accordance with the invention can be generated for a group comprising multiple members having a common interest. For example, a mobile site may be generated for a family, a group of friends, a club, a sports team, a business, a sales force, a civic group, a fan group, a political party, a campaign, a charity, or any other type of multi-member organization. Such a site may be used for efficient dissemination of relevant information to group members via the wireless network 12. For example, the site can be used to generate messages, using instant messaging (IM), SMS, MMS, pages, emails, voice-over-IP (VoIP) calls, cellular telephone calls, or any other suitable messaging format, that are sent to organization members over the wireless network. Such a message from a given member of the organization can direct other members to access the mobile site to obtain additional information regarding events, news, cancellations, reschedulings, updates, polls, special requests, etc. Organization members can easily and efficiently post information and generate messages to other members so as to facilitate collaboration and other types of interaction.

A given mobile site, also by way of example, may be associated with an event, and information identifying the event and its associated mobile site may be transmitted via the wireless network 12 to mobile devices of one or more users that are determined to be likely to have an interest in the subject matter of the event. The event may be a movie, a concert, a sporting event, a political rally, a contest, a promotion, particular goods or services being

offered for sale by a vendor at certain prices or on certain conditions, etc. Such interested users may be determined, for example, by comparing generalized demographic data associated with the event with personal demographic data previously stored for the system users, or utilizing other marketing data based techniques. A mobile site of this type is especially useful for implementing follow-up marketing actions, user registration, etc.

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

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

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

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

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

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

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

The above-noted M-channels will now be described in greater detail. As mentioned previously, M-channels are utilized at the content management site of the illustrative embodiment to facilitate the generation of mobile sites and the management of associated content. More specifically, the M-channels allow unsophisticated users to easily and efficiently author message data or other types of information content to be made accessible via a collaborative workspace, a data mailbox, a collaborative community, or other type of mobile site or portion thereof generated or otherwise managed in the system 10. Features such as task,

action, event, location, delivery or collaborative enabling of specified M-channel content may be specified along with access methods, automatic generation of wirelessly accessible navigation menus, content presentation views, etc.

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

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

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

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

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

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

data integration server 37, and a services integration suite 38 associated with a services integration server 39. Each of the servers 33, 35, 37 and 39 may comprise one or more of the servers 16 or other elements shown in FIG. 1A, or suitable portions or combinations thereof.

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

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

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

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

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

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

the integration of information associated with these wireless networking functionalities with the content of the mobile site generated via the content management site.

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

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

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

The content management site may be viewed as being part of a mobile communications publishing platform provided by the system 10 of FIG. 1A. This platform integrates aspects of wireless network functionality with mobile site content generation, thereby facilitating user interaction via the mobile devices 15. The content management site in the illustrative embodiment is designed to generate and otherwise manage dynamic, time-sensitive, task-oriented mobile sites, including wireless collaborative workspaces and communities. The content management site allows content such as data, media, multimedia, messages, news, features, events, polls, competitions and advertising to be rapidly created, entered into the system, and then subsequently syndicated, distributed, shared, collaborated with or acted upon by users of mobile devices.

By utilizing the content management site, system users can create one or more personal or business mobile sites with various sets of features, and then share such sites via the mobile Internet or other wireless network with friends, family, colleagues, or other groups of any type. The content management site makes it simple for unsophisticated users to upload, enter, create,

syndicate, distribute or otherwise manage content that is important to them, in a manner that allows such content to be accessed, shared, and acted upon from a mobile device.

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

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

A registration process is preferably provided in order to allow users to establish an account with the system. Such a process can be initiated by activation of the hyperlink associated with block 104. Previously-registered users can login to their accounts by activating the hyperlink associated with block 102. Details of the registration and login processes associated with respective blocks 104 and 102 will be described below in conjunction with the respective flow diagrams of FIGS. 19 and 20.

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

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

Block 106 in FIG. 1D represents a display region containing a link to an optional logoff process. The logoff process enables a registered user who has previously logged in to activate a control so as to redirect his or her browser to the non-customized version of home page 100.

This feature is useful, for example, in a situation in which multiple users share the same personal computer or other terminal. More specifically, a given registered user who has logged in may, without turning off the computer or closing its Internet connection, and even without closing the browser or pointing it to another URL, conceal and prevent further access to his or her account information while also enabling another registered or unregistered user to access the home page 100.

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

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

An example of a preference feature that may be made available only to registered users is an address book feature. This feature can be accessed by activating the link associated with block 320 in FIG. 3. Such a feature allows the names, email addresses, mobile telephone numbers and other contact information of potential message recipients to be recorded and then easily selected when a message is to be sent.

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

If any of the other individuals are not registered users, then an attempt may be made to obtain an email address for each of those other non-registered users. For any such non-registered users for which an email address is obtained, an email message may be sent

containing a link, along with appropriate explanatory text, to the site registration process to be described in conjunction with FIG. 19. After completing the registration process, the individual will be given the option of accepting or declining the information sharing proposal.

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

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

Yet another preference feature that may be made available to registered users is an ability to post one or more messages on a "community bulletin board" that is accessible to both registered and non-registered users. This feature allows non-registered users to become aware of the messages posted by registered users, thereby encouraging further registrations and increasing use of the site.

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

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

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

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

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

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

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

mobile sites associated with that user, and a link 708 allowing the user to build a new mobile site.

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

FIG. 8 shows an example of a main menu page of the content management site for managing a given mobile site associated with a system user. This main menu page screenshot may be viewed as corresponding generally to the main menu page 300 schematically shown in FIG. 3. The main menu page in this example includes information 802 identifying user account information and the particular mobile sites associated with that user, page navigational links 804, mobile site information 806 associated with a selected one of the mobile sites associated with the user, M-channel information 808, and a delete site field 810.

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

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

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

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

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

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

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

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

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

FIG. 21 shows an example process for creating a mobile site using the content management site. This process may be accessed, for example, upon completion of the registration process, or upon activation of the link associated with block 226 of FIG. 2. After initiation of the mobile site creation process in step 2100, the user is prompted in step 2102 to

enter a site title, in step 2104 to enter a site URL, in 2106 to enter a site description, in step 2108 to enter a category, and in step 2110 to enter keywords. Steps 2102 to 2110 should be viewed as examples of the type of information a registered user could be asked to enter in order to create the mobile site, but a given mobile site in accordance with the invention can of course be created using other types of information.

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

Step 2122 represents the start of an M-channel selection wizard. From the M-channel selection wizard step, the user can choose a template, task and/or goal in step 2124, choose appropriate fields in step 2126, and select desired options in step 2130. At this point, the process generates the appropriate rules for the display engine in step 2132, and then activates or otherwise generates one or more M-channels for the mobile site in step 2134. The result is a site specific M-channel list as indicated in step 2146, an example of which was previously described in conjunction with the screenshot of FIG. 8. Supplementary to this portion of the process, the user is also provided with an opportunity in steps 2136, 2138, 2140, 2142 and 2144 of FIG. 21 to add additional M-channels, options, external services, and the like to the mobile site. Any such added elements are taken into account in generating the site specific M-channel list in step 2146. At the completion of step 2146, the process returns to the main menu (MM), from which the M-channel wizard step 2122 can again be initiated to further modify the previously-created mobile site.

Turning now to FIG. 22, an example process for content authoring at the content management site is shown. The user in step 2202 selects a particular M-channel for which the content is to be authored. Step 2204 generates an M-channel content list, and step 2206 allows the status of the various content items to be changed from published to unpublished and vice-versa. Steps 2208 and 2210 allow content items on the M-channel content list to be erased. From the M-channel content list generated in step 2204, an item authoring wizard may be

initiated in step 2212. This wizard facilitates the authoring of a content item by prompting the user to enter date and time in step 2214, to enter a title in step 2216, to enter message content, data template or both in step 2218, to select or upload media in step 2220, to select distribution, delivery and service options in step 2224, and to select publishing options in step 2226.

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

Step 2230 determines if a save button or a cancel button has been activated. Activation of the cancel button returns the process to the M-channel content list in step 2204. Activation of the save button causes formatting of the message content and/or data device in step 2232. Step 2234 determines if media has been selected for upload. If so, the selected media is uploaded in step 2236. In any case, step 2238 then determines if distribution, delivery and service options have been set. A positive determination results in the setting of the distribution, delivery and service options in step 2240. The process then proceeds to step 2242, in which the generated content item and its associated settings are saved, preferably by storage in a database or other memory or storage device of the system, as indicated at 2244. The process then returns to the M-channel content list in step 2202.

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

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

It is also possible from the directory step 2302 to initiate a site search in step 2330, which may include specifying in steps 2332, 2334 and 2336 the respective beginning, containing or ending parameters of the desired site. This leads to a site results list in step 2338 that can be used to retrieve one or more user mobile sites in step 2340. Other mobile site directory functions include generation of a site list in step 2350, leading to user selection of a letter and/or a number in step 2352, generation of site categories in step 2360, leading to user selection of a category in step 2362, and generation of keywords in step 2370, leading to user entry of a particular keyword or keywords in step 2372. Each of these functions results in generation of a site results list in step 2338, from which a user mobile site can be accessed in step 2340.

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

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

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

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

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

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

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

Claims

What is claimed is:

1. A method comprising:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

17. The method of claim 1 wherein the mobile information channel comprises a chat channel facilitating interaction between the first user and the plurality of additional users.

18. The method of claim 1 wherein the mobile information channel is associated with an entertainment-related entity.

19. The method of claim 18 wherein the entertainment-related entity comprises at least one of a television program, a movie and a music artist.

20. The method of claim 1 wherein the mobile information channel is associated with a mobile device application.

21. The method of claim 20 wherein the mobile device application comprises a personalized content application.

22. A non-transitory computer-readable storage medium having embodied therein executable code of one or more software programs for use in managing information content in a network-based communication system, wherein said executable program code when executed

by a processing element of the communication system implements the steps of the method of claim 1.

23. An apparatus comprising:

a processing element comprising a processor coupled to a memory;

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

the processing element being configured to:

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

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

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

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

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

24. The apparatus of claim 23 wherein the processing element comprises at least one server accessible over the Internet via a network interface.

25. A network-based communication system, comprising:

a plurality of servers configured to communicate over a network;

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

wherein said at least one server is configured to:

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

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

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

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

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

Abstract

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

Electronic Acknowledgement Receipt

EFS ID:	18546926
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Anita Cocchiola
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON4
Receipt Date:	21-MAR-2014
Filing Date:	07-FEB-2014
Time Stamp:	12:50:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Applicant Response to Pre-Exam Formalities Notice	1018-2CON4_Response.pdf	209600 c0ba6fd0ebdb80db491d8e0c0fe066ad716ed65a	no	2

Warnings:

Information:

2	Specification	1018-2CON4_CleanSpec.pdf	5441844 419e59c662de1d0d9c6c329cb9f5c293eafeeae3	no	31
Warnings:					
Information:					
3	Specification	1018-2CON4_MarkedUpSpec.pdf	5437592 585bf1a83b5ff2cb9520e7ddc2d875021e4a1771	no	31
Warnings:					
Information:					
			Total Files Size (in bytes):	11089036	

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
14/175,768

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	70		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	300		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	360		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	25 minus 20 =	* 5	x 40 =	200	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x 210 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	930		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/175,768	02/07/2014	2414	930	1018-2 CON4	25	3

CONFIRMATION NO. 5913

UPDATED FILING RECEIPT

OC000000067335285

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

Date Mailed: 03/25/2014

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

Inventor(s)

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

Applicant(s)

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

Assignment For Published Patent Application

Wireless Ink Corporation, East Islip, NY

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

Domestic Priority data as claimed by applicant

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

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

If Required, Foreign Filing License Granted: 02/25/2014

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/175,768**

Projected Publication Date: 07/03/2014

Non-Publication Request: No

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

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

Preliminary Class

370

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

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4

CONFIRMATION NO. 5913

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

NOTICE

OC000000067335286

Date Mailed: 03/25/2014

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

A new inventor's oath or declaration that identifies this application (e.g., by Application Number and filing date) is required. The inventor's oath or declaration does not comply with 37 CFR 1.63 in that it:

- does not state that the above-identified application was made or authorized to be made by the person executing the oath or declaration.
  - David Walker Harper
  - Jason James Sabella
  - William Henry Munch

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MAR 27 2014
OFFICE OF PETITIONS

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

Doc Code: TRACK1.GRANT

Decision Granting Request for Prioritized Examination (Track I or After RCE)	Application No.: 14/175,768

1. THE REQUEST FILED February 7, 2014 IS **GRANTED.**

The above-identified application has met the requirements for prioritized examination

A. ☒ for an original nonprovisional application (Track I).
B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;
B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;
C. filing a **request for continued examination**;
D. filing a notice of appeal;
E. filing a request for suspension of action;
F. mailing of a notice of allowance;
G. mailing of a final Office action;
H. completion of examination as defined in 37 CFR 41.102; or
I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to Brian W. Brown at 571-272-5338.

/Brian W. Brown/
[*Signature*]

Petitions Examiner, Office of Petitions
(Title)

U.S. Patent and Trademark Office
PTO-2298 (Rev. 02-2012)

Docket No. 1018-2 CON4

Outside Counsel Docket No. 1018-2 CON4

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

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

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

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

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

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

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

WARNING:

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

LEGAL NAME OF INVENTOR

Inventor: David Walker Harper

Date: 3/27/2014

Signature:

Docket No. 1018-2 CON4

Outside Counsel Docket No. 1018-2 CON4

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

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

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This declaration is directed to:

☐ The attached application, or

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

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

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

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LEGAL NAME OF INVENTOR

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

Signature: Jason James Sabella

Docket No. 1018-2 CON4

Outside Counsel Docket No. 1018-2 CON4

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

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

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

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

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

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

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LEGAL NAME OF INVENTOR

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

Signature:

Electronic Acknowledgement Receipt

EFS ID:	18731508
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan
Filer Authorized By:	
Attorney Docket Number:	1018-2 CON4
Receipt Date:	10-APR-2014
Filing Date:	07-FEB-2014
Time Stamp:	16:46:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	1018-2CON4_DEC.pdf	467326 9558601ac7e98f12d4ca113d070b63c1a326b0fe	no	3

Warnings:

Information:

Total Files Size (in bytes):	467326

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
14/175,768	07 February, 2014	HARPER ET AL.	1018-2 CON4

		EXAMINER	
RYAN, MASON & LEWIS, LLP 48 South Service Road Suite 100 Melville, NY 11747		JUDE JEAN GILLES	
		ART UNIT	PAPER
		2447	20140514

DATE MAILED:

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

Commissioner for Patents

EAST seach file for for non-final office action completed 05/13/2014 is herein attached.

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447

PTO-90C (Rev.04-03)

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"8135801".pn.	US-PGPUB; USPAT	OR	ON	2014/05/13 08:49
S2	1	"7908342".pn.	US-PGPUB; USPAT	OR	ON	2014/05/13 09:00
S3	1	"7599983".pn.	US-PGPUB; USPAT	OR	ON	2014/05/13 09:03
S4	27110	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber))	US-PGPUB; USPAT	OR	ON	2014/05/13 09:05
S5	9	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber)) near30 shar$3 adj4 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 09:06
S6	2	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber)) near30 shar$3 adj4 access$3 near30 ((other plurality additional) adj4 (user member participant subscriber))	US-PGPUB; USPAT	OR	ON	2014/05/13 09:07
S7	4769	mobile adj4 (information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:15
S8	24	S7 and S4	US-PGPUB; USPAT	OR	ON	2014/05/13 09:15
S9	0	S7 same S4	US-PGPUB; USPAT	OR	ON	2014/05/13 09:15
S10	24	S7 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/05/13 09:27
S11	199	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:27
S12	1	(first initial primary) adj4 (user member participant subscriber) same mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:28
S13	30	(first initial primary) adj4 (user member participant subscriber) and mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:29
S14	2	shar$3 adj4 access$3 same (first initial primary) adj4 (user member participant subscriber) and mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:29
S15	199	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:30

S16	1	mobile adj4 (information data content) adj4 channel near20 (user adj4 interfac$3) same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:30
S17	22984	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless0 adj4 information data content) adj4 channel)	US-PGPUB; USPAT	OR	ON	2014/05/13 09:32
S18	18894	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:32
S20	0	S4 and (integrat$3 insert$3 combin$3 activat$ provid$3) adj5 portion near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:33
S21	1	S7 and (integrat$3 insert$3 combin$3 activat$ provid$3) adj5 portion near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:33
S22	2	mobile adj4 (information data content) adj4 channel same wireless adj4 network same user adj4 interfac$3	US-PGPUB; USPAT	OR	ON	2014/05/13 09:34
S24	10	mobile adj4 (information data content) adj4 channel same wireless adj4 network and access$3 adj5 shar$3 same user	US-PGPUB; USPAT	OR	ON	2014/05/13 09:35
S25	54376	((709/217) or (709/203) or (709/204) or (709/232) or (709/200) or (709/224) or (709/250) or (709/248) or (709/223) or (709/228) or (709/229) or (455/8) or (455/9) or (455/10) or (370/400) or (370/410) or (370/413) or (715/743) or (715/736)).CCLS.	USPAT; USOCR	OR	OFF	2014/05/13 09:37
S26	7	S25 and S11	USPAT	OR	OFF	2014/05/13 09:37
S27	617	S25 and S17	USPAT	OR	OFF	2014/05/13 09:37
S28	617	S25 and S17	US-PGPUB; USPAT	OR	OFF	2014/05/13 09:37
S29	7	S25 and S11	US-PGPUB; USPAT	OR	OFF	2014/05/13 09:38
S30	175	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (wireless adj3 ink adj3 corporation).asn.)	US-PGPUB; USPAT	OR	ON	2014/05/13 09:41
S31	6	S30 and S7	US-PGPUB; USPAT	OR	ON	2014/05/13 09:41
S32	26	mobile adj4 (information data content) adj4 channel same wireless adj4 network and access$3 adj5 shar$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:27
S33	26	S32 AND ((H04W64/00 OR H04W4/02 OR H04W60/04 OR H04W64/003 OR H04W28/06 OR H04W4/00 OR H04W8/20 OR H04W52/0216 OR H04W52/0219 OR H04W72/121 OR H04W72/1247 OR H04W76/046 OR H04W28/04 OR H04W28/22 OR H04W52/08 OR H04W52/36 OR H04W52/50 OR H04W74/085 OR H04W72/005 OR H04W72/042 OR H04W8/08 OR H04W48/14 OR H04W72/044 OR H04W72/0486 OR H04W72/10 OR	US-PGPUB; USPAT	OR	ON	2014/05/13 11:29

		H04W74/02 OR H04L12/18 OR H04L12/1827 OR H04L12/1859 OR H04L12/189 OR H04L12/5895 OR H04L29/06 OR H04L51/38 OR H04L67/04 OR H04L67/14 OR H04L67/18 OR H04L69/329 OR H04L1/0071 OR H04L1/0075 OR H04L1/08 OR H04L1/1877 OR H04L29/06027).CPC.)				
S34	199	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 11:29
S35	100	(integrat$3 insert$3 combin$3 activat$ provid$3) adj5 portion near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 11:38
S36	0	mobile adj4 (information data content) adj4 channel same wireless adj4 network same shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:41
S37	19	mobile adj4 (information data content) adj4 channel and wireless adj4 network same shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:41
S38	99	mobile adj4 (information data content) adj4 channel and wireless adj4 network and shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:41
S39	8	mobile adj4 (information data content) adj4 channel and wireless adj4 network and user near30 shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:42
S40	21	S38 AND ((H04L12/189 OR H04W72/005).CPC.)	US-PGPUB; USPAT	OR	ON	2014/05/13 11:45

5/13/2014 9:17:34 PM
C:\Users\jjeangilles\Documents\EAST\Workspaces\14175768.wsp

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4	5913

31825 7590 05/15/2014
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER
JEAN GILLES, JUDE

ART UNIT	PAPER NUMBER
2447	

MAIL DATE	DELIVERY MODE
05/15/2014	PAPER

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

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

PTOL-90A (Rev. 04/07)

Office Action Summary	Application No. 14/175,768	Applicant(s) HARPER ET AL.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *03/21/2014*.

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

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

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

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

Disposition of Claims*

5)☒ Claim(s) *1-25* is/are pending in the application.

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

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-25* is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *02/21/2014*.

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

4) ☐ Other: _____.

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

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 02/21/2014 was filed in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the claims at issue are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the reference application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO internet Web site contains terminal disclaimer forms which may be used. Please visit http://www.uspto.gov/forms/. The filing date of the application will determine what form should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to http://www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

4. Claims 1-25 are rejected on the ground of nonstatutory double patenting over claims 1-20 of U.S. Patent No. 8135801 B2 since the claims, if allowed, would improperly extend the “right to exclude” already granted in the patent.

The subject matter claimed in the instant application is disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter. Claims 1-25 are rejected.

Conclusion

5. ***This action is made Non-Final***. Any inquiry concerning this communication or earlier communications from examiner should be directed to Jude Jean-Gilles whose telephone number is (571) 272-3914. The examiner can normally be reached on Monday-Thursday and every other Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonya Dollinger, can be reached on (571) 272-4170. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3301.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-0800.

/Jude J Jean-Gilles/

Primary Examiner, Art Unit 2443

May 13, 2014

Notice of References Cited	Application/Control No. 14/175,768	Applicant(s)/Patent Under Reexamination HARPER ET AL.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-8,135,801	03-2012	Harper et al.	709/217
*	B	US-6,760,046	07-2004	l'Anson et al.	715/746
*	C	US-2011/0138297	06-2011	Harper et al.	715/743
*	D	US-6,760,046	07-2004	l'Anson et al.	715/746
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

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

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

U.S.PATENTS

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

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

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

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JJ/

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	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

	1	"Blah! - The Company," http:// www.blah.com/corporate/company/index.htm, 1 page, 2003.	☐
	2	"About Upoc," http:// www.upoc.com/about.jsp, 1 page, 2002.	☐
	3	"Homestead - Your Complete Web Site Building & Hosting Solution," http:// www.homesteatd.com, 2 pages, 2003.	☐

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EXAMINER SIGNATURE

Examiner Signature	/Jude Jean Gilles/ (05/13/2014)	Date Considered	

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

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

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

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	Examiner Name	TBA
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CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-02-21
Name/Print	Joseph B. Ryan	Registration Number	37922

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

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

PTO/SB/08a (01-10)
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U.S.PATENTS

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	Attorney Docket Number	1018-2 CON4

	1	I. VOS ET AL., "The Essential Guide to Mobile Business," 2002, pp. 215-218, Prentice Hall PTR, Upper Saddle River, New Jersey.	☐
	2	N. WHITFIELD, "The Official AOL UK Handbook Version 6.0," 2001, pp. 241-416 and 484-571, Capstone Publishing Limited, Oxford, United Kingdom.	☐
	3	Phone.com, "Enabling the Wireless Internet: Why You Should Develop Applications Using the Phone.com WAP Solution," January 2000, 12 pages.	☐
	4	Phone.com, "Understanding Security on The Wireless Internet: How WAP Security is Enabling Wireless E-commerce Applications for Today and Tomorrow," January 2000, 12 pages.	☐
	5	GURUbooks.com, "Join the Wireless Web Revolution with...Yahoo!," Mobile Guru Series, 2001, 10 pages.	☐
	6	A. NEIBAUER, "How to Do Everything with Yahoo!," 2000, pp. 115-180, Osborne/McGraw-Hill, Berkeley California.	☐
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	8	T. STAUFFER, "How to Do Everything with Your iMAC Third Edition," 2001, pp. 355-369 and 371-380, Osborne/ McGraw-Hill, Berkeley California.	☐
	9	D. POGUE, "Mac OS 9: The Missing Manual," 2000, pp. 243-256, Pogue Press/O'Reilly & Associates, Inc, United States of America.	☐
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	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON4

	12	G. STEINBERG, "Mac OS X Little Black Book," 2001, pp. 395-417, The Coriolis Group, Scottsdale, Arizona.	☐
	13	D. RITTNER, "The iMac Book Second Edition," pp. 341-373, The Coriolis Group, Scottsdale, Arizona.	☐
	14	I. STEINER, "Serving Up the Wireless Web: Content to Go," ONLINE Magazine, September 2001, at http://www.onlinemag.net/ol2001/steiner9_01.html, 10 pages.	☐
	15	R. RASKIN, "All AOL, All the Time," USA Today, July 17, 2001, at http://ww.usatoday.com/life/cyber/ccarch/2001-07-07-raskin.htm, 3 pages.	☐
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	22	D. NEEDLE, "A Portal for Portables: SmartRay Lets You Transfer E-mail and Other Info Across Mobile Devices," PCWorld, November 9, 1999, at http://www.pcworld.com/article/13699/a_portal_for_portables.html, 3 pages.	☐

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	24	PR NEWSWIRE, "First Personalized Portal for WAP and Internet Phones Launched by SmartRay Network," November 3, 1999, at http://www.thefreelibrary.com/First+Personalized+Portal+for+WAP+and+Internet+Phon..., 4 pages.	☐
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	28	PR NEWSWIRE EUROPE, "room33 Introduces Advanced Suite of Mobile Internet Applications for GSM, GPRS and UMTS," http://www.prnewswire.co.uk/cgi/news/release?id=62656, 2 pages.	☐
	29	H. DENKER, "WAP Under Construction," Connect, August 2, 2001, 10 pages (including translation and Certification Statement).	☐
	30	"Smart.ray.com Signs with 7 Carriers," Business and Industry RCR Radio Communications Report, July 10, 2000, 1 page, Vol. 19 No. 28.	☐
	31	BUSINESS WIRE, "AvantGo Teams with Yahoo! To Deliver Content and Services to Mobile Devices," June 1, 2000, 2 pages.	☐
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CERTIFICATION STATEMENT

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☐ See attached certification statement.

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

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Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-02-21
Name/Print	Joseph B. Ryan	Registration Number	37922

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

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

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

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Examiner Signature	/Jude Jean Gilles/ (05/13/2014)	Date Considered	

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	14175768	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

CPC- SEARCHED		
Symbol	**Date**	**Examiner**
G06F 15/16	5/13/2014	JG

CPC COMBINATION SETS - SEARCHED		
Symbol	**Date**	**Examiner**
(H04L12/189 OR H04W72/005).CPC.	5/6/2014	JG

US CLASSIFICATION SEARCHED			
Class	**Subclass**	**Date**	**Examiner**
709	217, 203, 204, 232	5/13/2014	JG

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
EAST text and claim search; NPLs	5/13/2014	JG

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**

	/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447

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

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

CLAIM		DATE								
Final	Original	05/13/2014								
	1	✓								
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Doc description: Information Disclosure Statement (IDS) Filed

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	1	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN3301-UKN3399.	☐
	2	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS9 containing documents numbered UKN3476-UKN3550.	☐
	3	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files titled UKNS10 containing documents numbered UKN3551-UKN3584, UKN3592-UKN3597, UKN3600, UKN3602-UKN3609, UKN3611, UKN3613, UKN3614, UKN3616, UKN3620, UKN3622, UKN3623, UKN3625, UKN3627, UKN3629-UKN3642, UKN3644-UKN3657, UKN3659 and UKN3660.	☐
	4	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of training documents titled UKNT1 containing documents numbered UKN3662, UKN3663, UKN3665, UKN3667-UKN3672, UKN3674, UKN3675, UKN3677, UKN3679 and UKN3680.	☐
	5	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of source code files containing documents numbered UKN458-UKN464, UKN477-UKN479, UKN481-UKN483, UKN485-UKN492, UKN495, UKN496, UKN498, UKN501-UKN548, UKN559-UKN565, UKN567-UKN572, UKN574-UKN600, UKN602-UKN609, UKN611-UKN648, UKN650-UKN718, UKN720-UKN890, UKN892-UKN896, UKN898, UKN900-1009, UKN1011-1051 and UKN1053-UKN1097.	☐
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	11	A.M. AGBOATWALLA ET AL., U.S. Provisional Patent Application No. 60/340,405, Filed December 13, 2001.	☐

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	23	J.P. MYSORE ET AL., "A Reconfigurable Stream Orchestration Framework for Mobile Users," Proceedings of the Third International Conference on Mobile Data Management (MDM '02), Singapore, August 2002, 8 pages.	☐
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	25	J. FREIRE ET AL., "Web Services and Information Delivery for Diverse Environments," Proceedings of the Very Large Data Bases (VLDB) Workshop on Technologies for E-Services, Cairo, Egypt, September 2000, 16 pages.	☐
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	41	V. ANUPAM ET AL., "Personalizing the Web Using Site Descriptions," Proceedings of the Tenth International Workshop on Database and Expert Systems Applications, Florence, Italy, 1999, 7 pages.	☐
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	43	P. BELLAVISTA ET AL., "A Mobile Agent Infrastructure for Terminal, User and Resource Mobility," 2000 IEEE/IFIP Network Operations and Management Symposium (NOMS), Honolulu, Hawaii, April 2000, 14 pages.	☐
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	45	M. WAGNER ET AL., "A Roadmap to Advanced Personalization of Mobile Services," Proceedings of the 10th International Conference on Cooperative Information Systems (CoopIS 2002), Irvine, California, 2002, 5 pages.	☐
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	47	S. HOCHSTETLER ET AL., "Introducing Tivoli Personalized Services Manager 1.1," IBM Redbooks, June 2001, 340 pages.	☐

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

I hereby appoint:

■ Practitioners associated with Customer Number: 31825

OR

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

Name	Registration Number	Name	Registration Number

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

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

■ The address associated with Customer Number: 31825

OR

Firm or Individual Name			
Address			
City		State	Zip
Country			
Telephone		Email	

Assignee Name and Address: Wireless Ink Corporation
P.O. Box 261
East Islip, New York 11730-0261

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

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

Signature	/David Walker Harper/	Date	May 19, 2014
Name	David Walker Harper	Telephone	
Title	President		

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

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

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: Wireless Ink Corporation

Application No./Patent No.: 14/175,768 Filed/Issue Date: February 7, 2014

Titled: Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks

Wireless Ink Corporation, a Corporation

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

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

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

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

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

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

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

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

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

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

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

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

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

1. From: David Walker Harper, Jason James Sabella and William Henry Munch To: Wireless Ink, LLC

The document was recorded in the United States Patent and Trademark Office at Reel 014467, Frame 0755, or for which a copy thereof is attached.

2. From: Wireless Ink, LLC To: Wireless Ink Corporation

The document was recorded in the United States Patent and Trademark Office at Reel 022929, Frame 0848, or for which a copy thereof is attached.

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

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

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

STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

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

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

4. From: _____ To: _____

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

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

5. From: _____ To: _____

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

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

6. From: _____ To: _____

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

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

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

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

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

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

/Joseph B. Ryan/	May 19, 2014
Signature	Date
Joseph B. Ryan	37,922
Printed or Typed Name	Title or Registration Number

[Page 2 of 2]

Electronic Acknowledgement Receipt

EFS ID:	19067303
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Anita Cocchiola
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON4
Receipt Date:	19-MAY-2014
Filing Date:	07-FEB-2014
Time Stamp:	16:04:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	1018-2CON4_TRL.pdf	101940 6d829cfd10ebd644fbc88b504ef2891e9a1f7a86	no	1

Warnings:

Information:

2	Application Data Sheet	1018-2CON4_ADS.pdf	1031569 45f72f974e96d687cd1560185b957b3b472ad0ba	no	6
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Power of Attorney	1018-2CON4_POA.pdf	169031 d18cd230f51e1fe40040e5093060065305dc0711	no	1
Warnings:					
Information:					
4	Assignee showing of ownership per 37 CFR 3.73.	1018-2CON4_37CFR373.pdf	305543 ba7f5f289fc21ad8c1c6d60327d100a50fff3733	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1608083		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant(s):	David Walker Harper et al.
Docket No.:	1018-2 CON4
Serial No.:	14/175,768
Filing Date:	February 7, 2014
Group:	2447
Examiner:	Jude Jean Gilles
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks

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REQUEST TO CHANGE APPLICANT INFORMATION UNDER 1.46(c)

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

Sir:

Submitted herewith is a Corrected Application Data Sheet with mark-ups to show the changes to the Applicant information. Also submitted is a Power of Attorney and Statement Under 37 CFR 3.73(c) relating to the above-referenced patent application.

In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Deposit Account No. 50-0762**.

Respectfully submitted,

/Joseph B. Ryan/

Date: May 19, 2014

Joseph B. Ryan
Attorney for Applicant
Reg. No. 37,922
Ryan, Mason & Lewis, LLP
48 South Service Road, Suite 100
Melville, NY 11747
(631) 393-6155

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 CON4
	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 i	US

Mailing Address of Inventor:

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

Mailing Address of Inventor:

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

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 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

City	Tampa	State/Province	FL	Country of Residence	US

Mailing Address of Inventor:

Address 1	481 Severn Avenue		
Address 2			
City	Tampa	**State/Province**	FL
Postal Code	33606	**Country**	US

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	31825		
Email Address	jbr@rml-law.com	Add Email	Remove Email

Application Information:

Title of the Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS		
Attorney Docket Number	1018-2 CON4	**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	48	**Suggested Figure for Publication (if any)**	

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

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

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

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 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Customer Number	31825

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	13364950	2012-02-02
Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13364950	Continuation of	13027519	2011-02-15
Prior Application Status	Patented		Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13027519	Continuation of	12548928	2009-08-27	7908342	2011-03-15
Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
12548928	Continuation of	10464526	2003-06-18	7599983	2009-10-06
Prior Application Status	Expired				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)		
10464526	Claims benefit of provisional	60389430	2002-06-18		

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

Foreign Priority Information:

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

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.

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 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

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

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

Authorization to Permit Access:

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

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

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

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

Applicant Information:

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

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 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Applicant 1

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

Clear

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

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

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. ☒

Organization Name	Wireless Ink Corporation		
Mailing Address Information For Applicant:			
Address 1	P.O. Box 261		
Address 2			
City	East Islip	**State/Province**	NY
Country[i]	US	Postal Code	11730-0261
Phone Number	631-750-2785	Fax Number	
Email Address	dharper@wirelessink.com		

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

Assignee Information including Non-Applicant Assignee Information:

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

Assignee 1

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

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

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 CON4
	Application Number	
Title of Invention	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS	

Organization Name	~~Wireless Ink Corporation~~		
Mailing Address Information For Assignee including Non-Applicant Assignee:			
Address 1	~~P.O. Box 261~~		
Address 2			
City	~~East Islip~~	**State/Province**	~~NY~~
Country i	~~US~~	Postal Code	~~11730~~
Phone Number	~~631-750-2785~~	Fax Number	
Email Address	~~dharper@wirelessink.com~~		

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

Signature:

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

Signature	/Joseph B. Ryan/			Date (YYYY-MM-DD)	2014-05-19
First Name	Joseph B.	Last Name	Ryan	Registration Number	37922

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

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.**

PTO/AIA/26 (04-14)
Approved for use through 07/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 1018-2 CON4

In re Application of: David Walker Harper et al.

Application No.: 14/175,768

Filed: February 7, 2014

For: Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks

The applicant, Wireless Ink Corporation, owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 8,135,801 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

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

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

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

2. ☑ The undersigned is an attorney or agent of record. Reg. No. 37,922

/Joseph B. Ryan/	May 19, 2014
Signature	Date

Joseph B. Ryan
Typed or printed name

Attorney	631-393-6155
Title	Telephone Number

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

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.321. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Electronic Patent Application Fee Transmittal

Application Number:	14175768
Filing Date:	07-Feb-2014
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan/Anita Cocchiola
Attorney Docket Number:	1018-2 CON4

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Statutory or Terminal Disclaimer	1814	1	160	160
		Total in USD ($)		**160**

Electronic Acknowledgement Receipt

EFS ID:	19067521
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Anita Cocchiola
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON4
Receipt Date:	19-MAY-2014
Filing Date:	07-FEB-2014
Time Stamp:	16:12:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$160
RAM confirmation Number	3033
Deposit Account	500762
Authorized User	RYAN, JOSEPH B.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

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

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

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)					

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	1018-2CON4_Response.pdf	263052 5be23b535eb8069ea28059bf892dac7ef96100d0	no	3
Warnings:					
Information:					
2	Terminal Disclaimer Filed	1018-2CON4_TerminalDisclaimer.pdf	183014 ea208cd0700b469e09430ce920950014eea9e012	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30552 9efdc7eb41c4c84d70757b144a8b57cc29fb53f2	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	476618		

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>
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<u>National Stage of an International Application under 35 U.S.C. 371</u>
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<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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant:	Wireless Ink Corporation
Inventor(s):	David Walker Harper et al.
Docket No.:	1018-2 CON4
Serial No.:	14/175,768
Filing Date:	February 7, 2014
Group:	2447
Examiner:	Jude Jean Gilles
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks

RESPONSE TO OFFICE ACTION

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

Sir:

In response to the outstanding non-final Office Action dated May 15, 2014, Applicant respectfully requests reconsideration of the above-identified application in view of the remarks herein.

REMARKS

The present application was filed on February 7, 2014 with claims 1-25, including independent claims 1, 23 and 25. The present application is continuation of U.S. Patent Application Serial No. 13/364,950 filed February 2, 2012, which is a continuation of U.S. Patent Application Serial No. 13/027,519 filed February 15, 2011, which is a continuation of U.S. Patent Application Serial No. 12/548,928 filed August 27, 2009 and now issued as U.S. Patent No. 7,908,342, which is a continuation of U.S. Patent Application Serial No. 10/464,526 filed June 18, 2003 and now issued as U.S. Patent No. 7,599,983, which claims the priority of U.S. Provisional Application Serial No. 60/389,430 filed June 18, 2002.

Claim 1-25 are rejected on the ground of nonstatutory double patenting over claims 1-20 of U.S. Patent No. 8,135,801 (hereinafter "the '801 patent").

Applicant notes that the '801 patent is under reexamination, and that the claims of the '801 patent have been amended during the reexamination.

With regard to the nonstatutory double patenting rejection, Applicant respectfully traverses on the ground that claims 1-25 of the present application are patentably distinct from claims 1-20 of the '801 patent. For example, claim 1 of the present application recites, *inter alia*, "integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one network." Claim 1 of the '801 patent does not recite such a feature.

Notwithstanding the above traversal, Applicant has chosen to file herewith a terminal disclaimer under 37 C.F.R. §1.321 solely in order to expedite prosecution of the present application. Withdrawal of the nonstatutory double patenting rejection is therefore respectfully requested.

In view of the foregoing, Applicant respectfully asserts that the claims are in condition for allowance, and requests withdrawal of the pending rejection.

Respectfully submitted,

/Joseph B. Ryan/

Date: May 19, 2014

Joseph B. Ryan
Attorney for Applicant
Reg. No. 37,922
Ryan, Mason & Lewis, LLP
48 South Service Road, Suite 100
Melville, NY 11747
(631) 393-6155

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	14/175,768	HARPER ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : May 19, 2014	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

Henry D Jefferson

U.S. Patent and Trademark Office

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/175,768	02/07/2014	2447	930	1018-2 CON4	25	3

CONFIRMATION NO. 5913

REPLACEMENT FILING RECEIPT

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

OC000000068580312

Date Mailed: 05/23/2014

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

Inventor(s)

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

Applicant(s)

Wireless Ink Corporation, East Islip, NY

Assignment For Published Patent Application

Wireless Ink Corporation, East Islip, NY

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

Domestic Priority data as claimed by applicant

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

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

If Required, Foreign Filing License Granted: 02/25/2014
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/175,768**

Projected Publication Date: 07/03/2014

Non-Publication Request: No

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

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

Preliminary Class

709

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

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

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

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

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

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

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4

CONFIRMATION NO. 5913

POA ACCEPTANCE LETTER

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

OC000000068580311

Date Mailed: 05/23/2014

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/19/2014.

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

/ddinh/

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

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6879965	B2	2005-04-12	Fung et al.	
	2	7158625	B2	2007-01-02	Casaccia	
	3	7277927	B2	2007-10-02	Rensin et al.	
	4	6807574	B1	2004-10-19	Partovi et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

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

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FOREIGN PATENT DOCUMENTS

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

	1							☐

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NON-PATENT LITERATURE DOCUMENTS

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

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

EFS Web 2.1.17

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-01
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.**

EFS Web 2.1.17

Electronic Patent Application Fee Transmittal

Application Number:	14175768
Filing Date:	07-Feb-2014
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON4

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
		Total in USD ($)		**90**

Electronic Acknowledgement Receipt

EFS ID:	19467968
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan
Filer Authorized By:	
Attorney Docket Number:	1018-2 CON4
Receipt Date:	01-JUL-2014
Filing Date:	07-FEB-2014
Time Stamp:	15:07:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$90
RAM confirmation Number	1433
Deposit Account	500762
Authorized User	RYAN, JOSEPH B.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON4_SUPPIDS.pdf	300486 bfeddf60bff69534ddc06a81b0258d0498d987b6	no	3
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
2	Fee Worksheet (SB06)	fee-info.pdf	30710 92ab6e07b97a8b8a863fa2ca46ede7f5b1a0b8a9	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	331196		

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New Applications Under 35 U.S.C. 111
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National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4

CONFIRMATION NO. 5913

PUBLICATION NOTICE

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

OC000000069404724

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

Publication No.US-2014-0189521-A1
Publication Date:07/03/2014

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

31825 7590 07/07/2014
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER
JEAN GILLES, JUDE

ART UNIT	PAPER NUMBER
2447	

DATE MAILED: 07/07/2014

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4	5913

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

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	10/07/2014

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

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

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

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

31825 7590 07/07/2014
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4	5913

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

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	10/07/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
JEAN GILLES, JUDE	2447	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1_____
2_____
3_____

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

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

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

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

4a. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): (**Please first reapply any previously paid issue fee shown above**)

❑ A check is enclosed.

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

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

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

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4	5913

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Suite 100
Melville, NY 11747

EXAMINER
JEAN GILLES, JUDE

ART UNIT	PAPER NUMBER
2447	

DATE MAILED: 07/07/2014

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

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

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

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

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

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

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

Privacy Act Statement

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

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

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

Notice of Allowability	Application No. 14/175,768	Applicant(s) HARPER ET AL.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	AIA (First Inventor to File) Status No

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

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

1. ☒ This communication is responsive to *03/21/2014*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-25*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov .
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

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

   * Certified copies not received: _____.

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

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

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

Attachment(s)

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

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447

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

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: The closest prior art of record, Lynn et al. U.S. Gheah, US 7003546 does not teach or suggest in detail : "…*activating the mobile information channel responsive to input received from the first user via the interface; inserting content provided by the first user into the mobile information channel; receiving additional content relating to the mobile information channel from one or more of said additional users via one or more respective mobile devices associated with at least one wireless network; inserting at least a portion of the additional content into the mobile information channel; and integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network…*" in combination with all the elements of each independent claim as filed by Applicant on 03/21/2014. The claim has been considered persuasive, in light of its limitations, as well as enabling portions of the specification.

2. The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Allowed Claims

3. Claims *1-25 are allowed.*

Conclusion

4. Any inquiry concerning this communication or earlier communications from examiner should be directed to Jude Jean-Gilles whose telephone number is (571) 272-3914. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Hwang, can be reached on (571) 272-4026. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3301. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-0800. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)?

/Jude J Jean-Gilles/

Primary Examiner, Art Unit 2447

June 30, 2014

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14175768	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

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

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

CLAIM		DATE								
Final	Original	05/13/2014								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
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	18	✓								
	19	✓								
	20	✓								
	21	✓								
	22	✓								
	23	✓								
	24	✓								
	25	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14175768	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

CPC- SEARCHED		
Symbol	**Date**	**Examiner**
G06F 15/16	5/13/2014	JG

CPC COMBINATION SETS - SEARCHED		
Symbol	**Date**	**Examiner**
(H04L12/189 OR H04W72/005).CPC.	5/6/2014	JG

US CLASSIFICATION SEARCHED			
Class	**Subclass**	**Date**	**Examiner**
709	217, 203, 204, 232	5/13/2014	JG

SEARCH NOTES		
Search Notes	**Date**	**Examiner**
EAST text and claim search; NPLs	5/13/2014	JG
EAST text and claim search; NPLs	6/30/2014	JG

INTERFERENCE SEARCH			
US Class/ CPC Symbol	**US Subclass / CPC Group**	**Date**	**Examiner**
709	217, 203, 204, 232, 200, 224, 250, 248, 223, 228, and 229	6/30/2014	JG
455	8, 9, and 10	6/30/2014	JG
370	400, 410, and 736	6/30/2014	JG
715	743, and 736	6/30/2014	JG

	/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"8135801".pn.	US-PGPUB; USPAT	OR	ON	2014/05/13 08:49
S2	1	"7908342".pn.	US-PGPUB; USPAT	OR	ON	2014/05/13 09:00
S3	1	"7599983".pn.	US-PGPUB; USPAT	OR	ON	2014/05/13 09:03
S4	27110	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber))	US-PGPUB; USPAT	OR	ON	2014/05/13 09:05
S5	9	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber)) near30 shar$3 adj4 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 09:06
S6	2	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber)) near30 shar$3 adj4 access$3 near30 ((other plurality additional) adj4 (user member participant subscriber))	US-PGPUB; USPAT	OR	ON	2014/05/13 09:07
S7	4769	mobile adj4 (information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:15
S8	24	S7 and S4	US-PGPUB; USPAT	OR	ON	2014/05/13 09:15
S9	0	S7 same S4	US-PGPUB; USPAT	OR	ON	2014/05/13 09:15
S10	24	S7 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/05/13 09:27
S11	199	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:27
S12	1	(first initial primary) adj4 (user member participant subscriber) same mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:28
S13	30	(first initial primary) adj4 (user member participant subscriber) and mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:29
S14	2	shar$3 adj4 access$3 same (first initial primary) adj4 (user member participant subscriber) and mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:29
S15	199	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:30

S16	1	mobile adj4 (information data content) adj4 channel near20 (user adj4 interfac$3) same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 09:30
S17	22984	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless0 adj4 information data content) adj4 channel)	US-PGPUB; USPAT	OR	ON	2014/05/13 09:32
S18	18894	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:32
S20	0	S4 and (integrat$3 insert$3 combin$3 activat$ provid$3) adj5 portion near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:33
S21	1	S7 and (integrat$3 insert$3 combin$3 activat$ provid$3) adj5 portion near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 09:33
S22	2	mobile adj4 (information data content) adj4 channel same wireless adj4 network same user adj4 interfac$3	US-PGPUB; USPAT	OR	ON	2014/05/13 09:34
S24	10	mobile adj4 (information data content) adj4 channel same wireless adj4 network and access$3 adj5 shar$3 same user	US-PGPUB; USPAT	OR	ON	2014/05/13 09:35
S25	54376	((709/217) or (709/203) or (709/204) or (709/232) or (709/200) or (709/224) or (709/250) or (709/248) or (709/223) or (709/228) or (709/229) or (455/8) or (455/9) or (455/10) or (370/400) or (370/410) or (370/413) or (715/743) or (715/736)).CCLS.	USPAT; USOCR	OR	OFF	2014/05/13 09:37
S26	7	S25 and S11	USPAT	OR	OFF	2014/05/13 09:37
S27	617	S25 and S17	USPAT	OR	OFF	2014/05/13 09:37
S28	617	S25 and S17	US-PGPUB; USPAT	OR	OFF	2014/05/13 09:37
S29	7	S25 and S11	US-PGPUB; USPAT	OR	OFF	2014/05/13 09:38
S30	175	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (wireless adj3 ink adj3 corporation).asn.)	US-PGPUB; USPAT	OR	ON	2014/05/13 09:41
S31	6	S30 and S7	US-PGPUB; USPAT	OR	ON	2014/05/13 09:41
S32	26	mobile adj4 (information data content) adj4 channel same wireless adj4 network and access$3 adj5 shar$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:27
S33	26	S32 AND ((H04W64/00 OR H04W4/02 OR H04W60/04 OR H04W64/003 OR H04W28/06 OR H04W4/00 OR H04W8/20 OR H04W52/0216 OR H04W52/0219 OR H04W72/121 OR H04W72/1247 OR H04W76/046 OR H04W28/04 OR H04W28/22 OR H04W52/08 OR H04W52/36 OR H04W52/50 OR H04W74/085 OR H04W72/005 OR H04W72/042 OR H04W8/08 OR H04W48/14 OR H04W72/044 OR H04W72/0486 OR H04W72/10 OR	US-PGPUB; USPAT	OR	ON	2014/05/13 11:29

		H04W74/02 OR H04L12/18 OR H04L12/1827 OR H04L12/1859 OR H04L12/189 OR H04L12/5895 OR H04L29/06 OR H04L51/38 OR H04L67/04 OR H04L67/14 OR H04L67/18 OR H04L69/329 OR H04L1/0071 OR H04L1/0075 OR H04L1/08 OR H04L1/1877 OR H04L29/06027).CPC.)				
S34	199	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/05/13 11:29
S35	100	(integrat$3 insert$3 combin$3 activat$ provid$3) adj5 portion near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/05/13 11:38
S36	0	mobile adj4 (information data content) adj4 channel same wireless adj4 network same shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:41
S37	19	mobile adj4 (information data content) adj4 channel and wireless adj4 network same shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:41
S38	99	mobile adj4 (information data content) adj4 channel and wireless adj4 network and shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:41
S39	8	mobile adj4 (information data content) adj4 channel and wireless adj4 network and user near30 shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2014/05/13 11:42
S40	21	S38 AND ((H04L12/189 OR H04W72/005).CPC.)	US-PGPUB; USPAT	OR	ON	2014/05/13 11:45

5/13/2014 9:20:02 PM
C:\Users\jjeangilles\Documents\EAST\Workspaces\14175768.wsp

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BIB DATA SHEET

CONFIRMATION NO. 5913

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/175,768	02/07/2014 RULE	709	2447	1018-2 CON4

APPLICANTS
Wireless Ink Corporation, East Islip, NY, Assignee (with 37 CFR 1.172 Interest);

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

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

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

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** SMALL ENTITY **
02/25/2014

Foreign Priority claimed	☐ Yes ☑ No		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☑ No	☐ Met after Allowance				
Verified and Acknowledged	/JUDE JEAN GILLES/ Examiner's Signature	JG Initials	NY	48	25	3

ADDRESS
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747
UNITED STATES

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

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

BIB (Rev. 05/07).

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14175768	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

CPC						
Symbol					**Type**	**Version**
G06F		3	/	0484	I	2013-01-01
H04L		67	/	04	F	2013-01-01
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CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
			/					
			/					

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 25	
/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447 (Primary Examiner)	06/30/2014 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1A

U.S. Patent and Trademark Office

Part of Paper No. 20140630

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14175768	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION									
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED				
709	217	G	0	6	F	15 / 16 (2006.01.01)					

CROSS REFERENCE(S)					
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
709	203	204	232	224	248
715	743	736			
455	8	9	10		

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	25	
/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447	06/30/2014	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1A

U.S. Patent and Trademark Office

Part of Paper No. 20140630

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14175768	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

☒ **Claims renumbered in the same order as presented by applicant** ☐ **CPA** ☒ **T.D.** ☐ **R.1.47**

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		17												
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	11														
	12														
	13														
	14														
	15														
	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 25	
/JUDE JEAN GILLES/ Primary Examiner.Art Unit 2447 (Primary Examiner)	06/30/2014 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 1A

U.S. Patent and Trademark Office

Part of Paper No. 20140630

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
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Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

31825 7590 07/07/2014
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4	5913

TITLE OF INVENTION: METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0	$0	$480	10/07/2014

EXAMINER	ART UNIT	CLASS-SUBCLASS
JEAN GILLES, JUDE	2447	709-217000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Ryan, Mason & Lewis, LLP
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Wireless Ink Corporation
(B) RESIDENCE: (CITY and STATE OR COUNTRY): East Islip, NY

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☒ Payment by credit card. Form PTO-2038 is attached.
- ☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 50-0762 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29 — NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27 — NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status. — NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Joseph B. Ryan/ Date July 7, 2014

Typed or printed name Joseph B. Ryan Registration No. 37,922

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant:	Wireless Ink Corporation
Inventor(s):	David Walker Harper et al.
Docket No.:	1018-2 CON4
Serial No.:	14/175,768
Filing Date:	February 7, 2014
Group:	2447
Examiner:	Jude Jean Gilles
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks

AMENDMENT AFTER ALLOWANCE UNDER 37 C.F.R. §1.312

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant respectfully requests amendment of the above-identified application as follows prior to issuance.

IN THE SPECIFICATION

Please replace the paragraph beginning on page 4, line 16 with the following amended paragraph:

FIGS. 24a ~~and~~ through 25o show typical illustrative examples of mobile site screens generated at a mobile device in the system of FIG. 1A.

REMARKS

Claims 1-25 of the above-identified application were allowed in a Notice of Allowance dated July 7, 2014.

This paper presents an amendment under 37 C.F.R. § 1.312 to correct a typographical error in the specification. No new matter is added by this amendment, and no further search or consideration is required.

Applicant respectfully requests that the amendment made herein be entered in accordance with 37 C.F.R. § 1.312 under the Examiner's authority as specified in MPEP § 714.16.

Respectfully submitted,

/Joseph B. Ryan/

Date: July 7, 2014

Joseph B. Ryan
Attorney for Applicant
Reg. No. 37,922
Ryan, Mason & Lewis, LLP
48 South Service Road, Suite 100
Melville, NY 11747
(631) 393-6155

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant:	Wireless Ink Corporation
Inventor(s):	David Walker Harper et al.
Docket No.:	1018-2 CON4
Serial No.:	14/175,768
Filing Date:	February 7, 2014
Group:	2447
Examiner:	Jude Jean Gilles
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following remarks are submitted in response to the Examiner's Statement of Reasons for Allowance included in the Notice of Allowability dated July 7, 2014 in the above-identified application.

REMARKS

Applicant has reviewed the Examiner's Statement of Reasons for Allowance (hereinafter "Statement") given on pages 2-3 of the Notice of Allowability.

Applicant expressly traverses the Statement to the extent that any portion thereof is intended or has the effect of limiting the scope of the allowed claims. Applicant further traverses the Statement to the extent that any portion thereof implies that all reasons for patentability of the allowed claims are fully enumerated.

In the Statement at, for example, page 2, second paragraph, the Examiner characterizes a certain prior art reference as being the "closest prior art." Applicant does not necessarily concur in this characterization.

Also, the Examiner paraphrases certain limitations of the independent claims and characterizes the prior art of record as failing to disclose the paraphrased limitations of the independent claims. See the Statement at, for example, page 2, second paragraph. Applicant agrees with the Examiner to the extent that the prior art of record fails to disclose all of the limitations of the independent claims. To the extent that concessions in the Statement that the prior art of record fails to disclose certain paraphrased limitations of the independent claims may be interpreted as implying that other limitations of the claims are conventional or otherwise fail to distinguish these claims over the prior art, Applicant respectfully traverses.

Applicant respectfully requests that the above comments be made of record and placed into the application file pursuant to 37 CFR 1.104(e).

Respectfully submitted,

/Joseph B. Ryan/

Date: July 7, 2014

Joseph B. Ryan
Attorney for Applicant
Reg. No. 37,922
Ryan, Mason & Lewis, LLP
48 South Service Road, Suite 100
Melville, NY 11747
(631) 393-6155

Electronic Patent Application Fee Transmittal

Application Number:	14175768
Filing Date:	07-Feb-2014
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan/Anita Cocchiola
Attorney Docket Number:	1018-2 CON4

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Utility Appl Issue Fee	2501	1	480	480
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	**480**

Electronic Acknowledgement Receipt

EFS ID:	19506381
Application Number:	14175768
International Application Number:	
Confirmation Number:	5913
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Anita Cocchiola
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON4
Receipt Date:	07-JUL-2014
Filing Date:	07-FEB-2014
Time Stamp:	15:55:17
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$480
RAM confirmation Number	2546
Deposit Account	500762
Authorized User	RYAN, JOSEPH B.

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	1018-2CON4_IF.pdf	213834 2657d3f4c675aba0c0e6ceb346f2ca72dae6a156	no	1
Warnings:					
Information:					
2	Amendment after Notice of Allowance (Rule 312)	1018-2CON4_312Amendment.pdf	180847 bbf0e8e93ac3f65166707f724bfd321e886971b9	no	3
Warnings:					
Information:					
3	Post Allowance Communication - Incoming	1018-2CON4_Comments.pdf	206769 eb51cc629d04a0c698f2143965a0da4ce7296a8f	no	2
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30641 96e9a2cdbe678aa255fec5ef8cb9ecc41a4df640	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	632091		

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.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6879965	B2	2005-04-12	Fung et al.	
	2	7158625	B2	2007-01-02	Casaccia	
	3	7277927	B2	2007-10-02	Rensin et al.	
	4	6807574	B1	2004-10-19	Partovi et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JJ/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/Jude Jean Gilles/ (07/25/2014)	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JJ/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-01
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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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/175,768	02/07/2014	David Walker Harper	1018-2 CON4	5913

31825 7590 07/29/2014
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER
JEAN GILLES, JUDE

ART UNIT	PAPER NUMBER
2447	

MAIL DATE	DELIVERY MODE
07/29/2014	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

Response to Rule 312 Communication	Application No.	Applicant(s)
	14/175,768	HARPER ET AL.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

1. ☒ The amendment filed on *01 July 2014* under 37 CFR 1.312 has been considered, and has been:

a) ☒ entered.

b) ☒ entered as directed to matters of form not affecting the scope of the invention.

c) ☐ disapproved because the amendment was filed after the payment of the issue fee.
Any amendment filed after the date the issue fee is paid must be accompanied by a petition under 37 CFR 1.313(c)(1) and the required fee to withdraw the application from issue.

d) ☐ disapproved. See explanation below.

e) ☐ entered in part. See explanation below.

1-Information Disclosure Statement (IDS) Form (SB08) filed on 07/01/2014 has been considered and entered by the Examiner.
2. A.N.A filed on 07/07/2014 regarding minor amendment of the specification and post allowance communication filed 07/07/2014 with remarks on Notice of allowability have been considered and entered by the Examiner.

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6879965	B2	2005-04-12	Fung et al.	
	2	7158625	B2	2007-01-02	Casaccia	
	3	7277927	B2	2007-10-02	Rensin et al.	
	4	6807574	B1	2004-10-19	Partovi et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]¡	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

	1							☐

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/Jude Jean Gilles/ (07/25/2014)	Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JJ/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	14175768
	Filing Date	2014-02-07
	First Named Inventor	David Walker Harper
	Art Unit	2447
	Examiner Name	Jude Jean Gilles
	Attorney Docket Number	1018-2 CON4

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2014-07-01
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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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant: Wireless Ink Corporation
Inventor(s): David Walker Harper et al.
Docket No.: 1018-2 CON4
Serial No.: 14/175,768
Filing Date: February 7, 2014
Group: 2447
Examiner: Jude Jean Gilles

Title: Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks

---

AMENDMENT AFTER ALLOWANCE UNDER 37 C.F.R. §1.312

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant respectfully requests amendment of the above-identified application as follows prior to issuance.

2. A.N.A filed on 07/07/2014 regarding minor amendment of the specification and post allowance communication filed 07/07/2014 with remarks on Notice of allowability have been considered and entered by the Examiner.

/Jude Jean Gilles/ (07/25/2014)

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/175,768	09/02/2014	8825801	1018-2 CON4	5913

31825 7590 08/13/2014
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

David Walker Harper, Bay Shore, NY;
Wireless Ink Corporation, East Islip, NY, Assignee (with 37 CFR 1.172 Interest);
Jason James Sabella, Coram, NY;
William Henry Munch, Tampa, FL;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

IR103 (Rev. 10/09)

Trials@uspto.gov
571-272-7822

Paper 11
Entered: June 11, 2024

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

META PLATFORMS, INC.,
Petitioner,

v.

MOBILE DATA TECHNOLOGIES LLC,
Patent Owner.

IPR2024-00247
Patent 8,825,801 B2

Before CHRISTOPHER M. KAISER, KEVIN C. TROCK, and SCOTT B. HOWARD, *Administrative Patent Judges*.

HOWARD, *Administrative Patent Judge*.

DECISION
Granting Institution of *Inter Partes* Review
35 U.S.C. § 314

I. INTRODUCTION

A. Background and Summary

Meta Platforms, Inc. ("Petitioner") filed a Petition (Paper 2, "Pet.") requesting *inter partes* review of claims 1–25 ("the challenged claims") of U.S. Patent No 8,825,801 B2 (Ex. 1001, "the '801 patent"). Mobile Data Technologies LLC ("Patent Owner") filed a Preliminary Response (Paper 6, "Prelim. Resp."). With our authorization, Petitioner filed a Reply to the Preliminary Response (Paper 8, "Pet. Prelim. Reply") and Patent Owner filed a Preliminary Sur-reply (Paper 10, "PO Prelim. Sur-reply").

We have authority, acting on the designation of the Director, to determine whether to institute an *inter partes* review under 35 U.S.C. § 314 and 37 C.F.R. § 42.4(a). *Inter partes* review may not be instituted unless "the information presented in the petition filed under [35 U.S.C.] section 311 and any response filed under [35 U.S.C.] section 313 shows that there is a reasonable likelihood that the petitioner would prevail with respect to at least 1 of the claims challenged in the petition." 35 U.S.C. § 314(a) (2018). "When instituting *inter partes* review, the Board will authorize the review to proceed on all of the challenged claims and on all grounds of unpatentability asserted for each claim." 37 C.F.R. § 42.108(a) (2023).

For the reasons set forth below, upon considering the briefing and the evidence of record, we determine that the information presented in the Petition establishes a reasonable likelihood that Petitioner will prevail with respect to at least one of the challenged claims, and we institute *inter partes* review on all of the challenged claims based on all of the grounds identified in the Petition.

B. Real Parties in Interest

Petitioner identifies itself as the real party in interest. Pet. 1.

Patent Owner identifies itself as the real party in interest. Paper 5, 1[1] (Patent Owner's Mandatory Notices).

C. Related Matters

The parties identify the following district court proceeding as a related matter: *Mobile Data Technologies LLC v. Meta Platforms, Inc.*, Case No. 7:22-cv-00244-ADA-DTG (W.D. Tex.). Pet. 1; Paper 5, 1.

D. The '801 Patent

The '801 patent is titled "Method, Apparatus and System for Management of Information Content for Enhanced Accessibility over Wireless Communication Networks" and is directed "to techniques for information content management in" "network-based communication systems." Ex. 1001, code (54), 1:24–26.

The '801 patent observes that "[o]ne of the most rapidly expanding aspects of wireless networking involves the access to information content over wireless networks via web-enabled mobile devices," but notes the challenge 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." Ex. 1001, 1:30–45. For 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." *Id.* at 1:50–53. The '801 patent thus recognizes a need "for improved techniques for managing information content in a manner that overcomes" the shortcomings of conventional techniques. *Id.* at 2:1–4. The

[1] Patent Owner did not paginate its Mandatory Notices. All citations are based on the page after the title page being page 1.

'801 patent provides "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." *Id.* at 2:8–12.

Figure 1A is reproduced below.

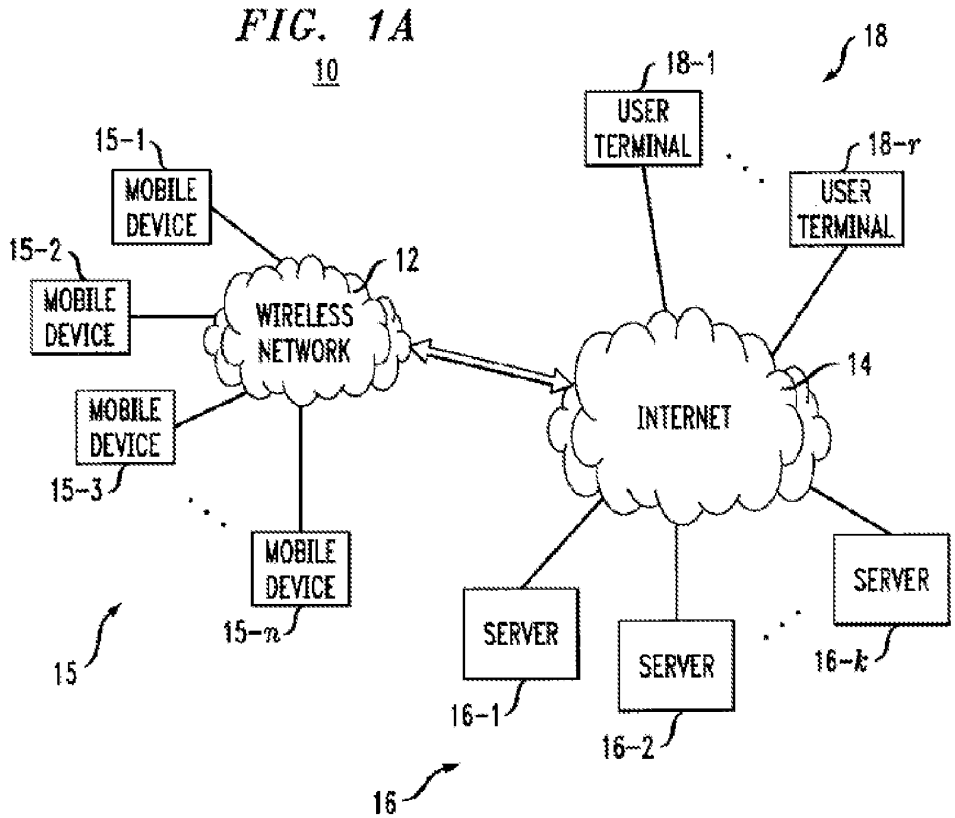

Figure 1A "is a block diagram of an example network-based communication system." Ex. 1001, 3:3–5. As shown in in Figure 1A, network-based communication system 10 includes wireless network 12 and Internet 14. Ex. 1001, 4:13–14. System 10 further includes mobile devices 15 and user terminals 18, generally referred to as user devices, connected to network 12 and Internet 14, respectively, and servers 16 coupled to Internet 14. *Id.* at

3:56–61, 4:3–4. In system 10, one of servers 16 may support a content management site accessible by mobile devices 15 or user terminals 18. *Id.* at 5:18–41. In particular, a "content management site permits the user to enter information in accordance with a specified format comprising a plurality of selectable mobile information channels each corresponding to an information category," where such channels are "referred to as 'M-channels.'" *Id.* at 5:25–29.

Further, a content management site may be used to create a mobile site accessible by mobile devices 15, and the information content of a mobile site "may be configured so as to integrate therewith information associated with at least one wireless networking functionality of the wireless network 12." Ex. 1001, 5:38–41, 5:63–66. For example, the wireless networking functionality information may be determined based on parameters of M-channels, such as "information specifying at least one messaging action implementable over the wireless network," or "information specifying at least one location-based service action implementable over the wireless network." *Id.* at 5:67–6:8. "M-channels are utilized at the content management site . . . to facilitate the generation of mobile sites and the management of associated content," and "allow unsophisticated users to easily and efficiently author message data or other types of information content to be made accessible . . . ." *Id.* at 8:14–20. The configuration of M-channels varies according to the implementation, "depending on factors such as the particular wireless networking functionalities available in the system." *Id.* at 8:28–32.

Figure 8 is reproduced below.

FIG. 8

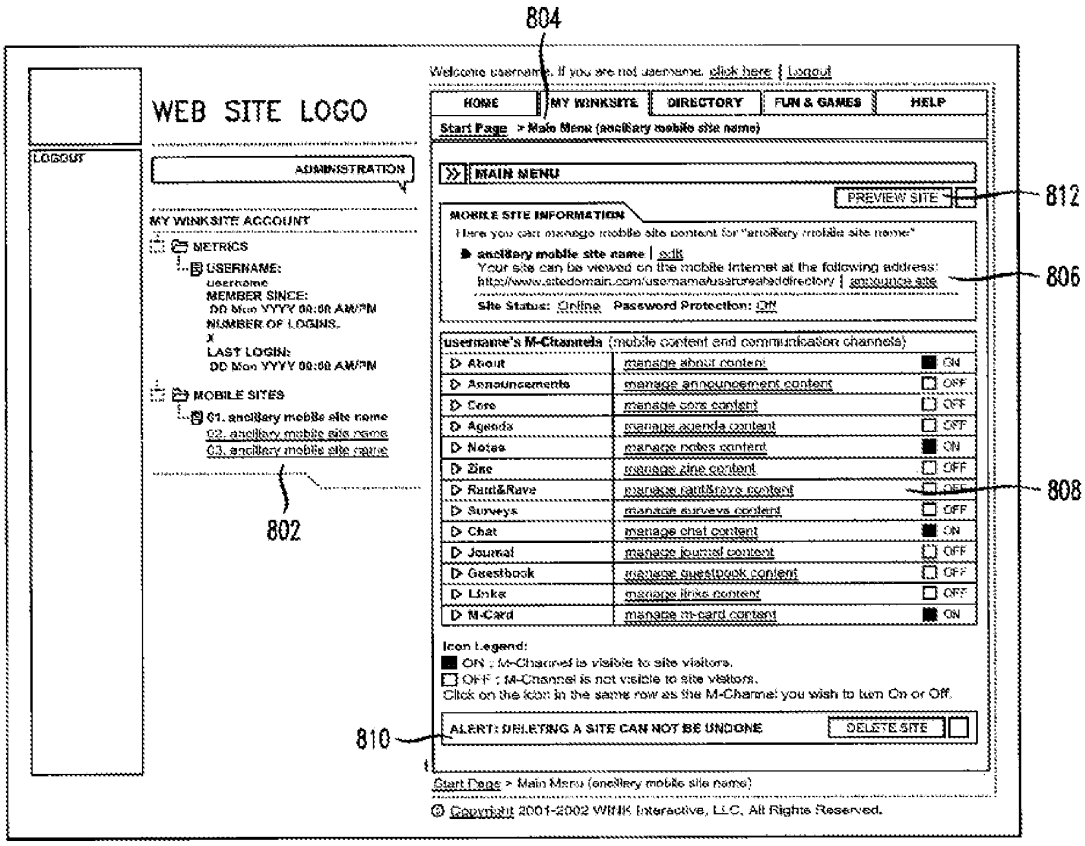

Figure 8 illustrates a "main menu page of the content management site for managing a given mobile site associated with a system user." Ex. 1001, 13:42–44; *see also id.* at 3:19–21 (Figure 8 is a "screenshot[] of [an] illustrative site page[] associated with a content management site in the system of Fig[ure] 1A."). As shown in Figure 8, the main menu page "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, [and] M-channel information 808." *Id.* at 13:46–52. "[A] user selects a particular M-channel by activating the

corresponding link 808," and authors content through a subordinate user interface. *Id.* at 14:12–20; *see also id.* at 13:53–14:8.

E. Illustrative Claim

Claims 1, 23, and 25 of the '801 patent are independent claims. Claim 1 is illustrative and is reproduced below.

> 1. A method comprising:
>
> [1a] 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;
>
> [1b] activating the mobile information channel responsive to input received from the first user via the interface;
>
> [1c] inserting content provided by the first user into the mobile information channel;
>
> [1d] 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;
>
> [1e] inserting at least a portion of the additional content into the mobile information channel; and
>
> [1f] integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

Ex. 1001, 18:57–19:7; *see also* Pet. i-ii (adding limitation identifiers).

F. Prior Art and Asserted Grounds

Petitioner asserts that claims 1–25 would have been unpatentable on the following grounds:

Claim(s) Challenged	35 U.S.C. §[2]	Reference(s)/Basis
1–25	103(a)	Neibauer,[3] Miller,[4] Cheng,[5] Squibbs[6]
1–25	103(a)	Neibauer, Miller, Cheng, Squibbs, Harvey[7]

Petitioner relies on the testimony of Vijay K. Madisetti, Ph.D. (Ex. 1002). Patent Owner relies on the testimony of Kevin C. Almeroth, Ph.D. (Ex. 2001).

II. ANALYSIS

A. Legal Standards

In *Graham v. John Deere Co. of Kansas City*, 383 U.S. 1 (1966), the Supreme Court set out a framework for assessing obviousness under 35 U.S.C. § 103 that requires consideration of four factors: (1) the "level of ordinary skill in the pertinent art," (2) the "scope and content of the prior art," (3) the "differences between the prior art and the claims at issue," and (4) if in evidence, "secondary considerations" of non-obviousness, such as "commercial success, long-felt but unsolved needs, failure of others, etc." *Id.* at 17–18. "While the sequence of these questions might be reordered in

---

[2] The Leahy-Smith America Invents Act ("AIA") included revisions to 35 U.S.C. § 103 that became effective on March 16, 2013. Petitioner applies the pre-AIA version. *See* Pet. 10 ("Pre-AIA law applies to the challenged claims, and each reference cited in the grounds listed in **Part III.B** qualifies as prior art.").

[3] Neibauer, A. R. (2000). *How to do everything with yahoo!* Osborne/McGraw-Hill (Ex. 1003). (Ex. 1003).

[4] WO 00/17775 A2, published Mar. 30, 2000 (Ex. 1004).

[5] US 7,574,486 B1, issued Aug. 11, 2009 (Ex. 1005)

[6] US 2001/0015759 A1, published Aug. 23, 2001 (Ex. 1011).

[7] US 6,487,583 B1, issued Nov. 26, 2002 (Ex. 1010).

any particular case," *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398, 407 (2007), the U.S. Court of Appeals for the Federal Circuit has repeatedly emphasized that "it is error to reach a conclusion of obviousness until all those factors are considered," *WBIP, LLC v. Kohler Co.*, 829 F.3d 1317, 1328 (Fed. Cir. 2016). Because Patent Owner does not address objective evidence of non-obviousness, we focus solely on the first three *Graham* factors.

B. Level of Ordinary Skill in the Art

The level of ordinary skill in the pertinent art at the time of the invention is a factor in how we construe patent claims. *See Phillips v. AWH Corp.*, 415 F.3d 1303, 1312–13 (Fed. Cir. 2005) (en banc). It is also one of the factors we consider when determining whether a patent claim is obvious over the prior art. *See Graham*, 383 U.S. at 17–18.

Factors pertinent to a determination of the level of ordinary skill in the art include "(1) the educational level of the inventor; (2) type of problems encountered in the art; (3) prior art solutions to those problems; (4) rapidity with which innovations are made; (5) sophistication of the technology; and (6) educational level of active workers in the field." *Envtl. Designs, Ltd. v. Union Oil Co. of Cal.*, 713 F.2d 693, 696–697 (Fed. Cir. 1983) (citing *Orthopedic Equip. Co. v. All Orthopedic Appliances, Inc.*, 707 F.2d 1376, 1381–82 (Fed. Cir. 1983)). "Not all such factors may be present in every case, and one or more of these or other factors may predominate in a particular case." *Id.*

Dr. Madisetti argues that a person having ordinary skill in the art would have had "a bachelor's degree in electrical engineering, computer science, or similar field, with two years of experience in developing and implementing network-based computer systems that interact with mobile

devices, such as systems for storing and retrieving information over the Internet or communicating using the Web using wireless mobile devices." Pet. 5–6 (citing Ex. 1002 ¶¶ 14–18).

At this stage of the proceeding, Patent Owner "applies Petitioner's characterization of a [person having ordinary skill in the art]." Prelim. Resp. 19 (citing Ex. 2001 ¶¶ 42–44).

For purposes of this Decision, we adopt Petitioner's formulation of a person having ordinary skill in the art, which is consistent with the invention claimed in the '801 patent.[8]

C. Claim Construction

We apply the same claim construction standard used in the federal courts, in other words, the claim construction standard that would be used to construe the claim in a civil action under 35 U.S.C. § 282(b), which is articulated in *Phillips*. *See* 37 C.F.R. § 42.100(b). Under the *Phillips* standard, the "words of a claim 'are generally given their ordinary and customary meaning,'" which "is the meaning that the term would have to a person of ordinary skill in the art in question at the time of the invention, i.e., as of the effective filing date of the patent application." *Phillips*, 415 F.3d at 1312–13.

[8] If Patent Owner disagrees with this formulation of the level of skill in the art, it must raise that disagreement in its Response. If a different level of skill would affect the outcome in this case, the parties must brief that issue as well. The failure of Patent Owner to describe how a different level of skill in the art is determinative will be a forfeiture of that argument. If there is a dispute regarding the level of ordinary skill in the art, then the parties are also encouraged to submit evidence, other than conclusory expert testimony, that supports their position.

"Petitioner does not believe express claim construction is necessary at this time." Pet. 8. Petitioner also discusses various claim construction arguments made in the district court proceeding. *See id.* at 27–28, 67.

At this stage, Patent Owner agrees with Petitioner that "no express constructions are required," and further agrees "that the ordinary and customary meanings of the claim terms apply." Prelim. Resp. 19.

For the purposes of this Decision, we need not expressly construe any claim terms.[9] *See Nidec Motor Corp. v. Zhongshan Broad Ocean Motor Co.*, 868 F.3d 1013, 1017 (Fed. Cir. 2017) (noting that "we need only construe terms 'that are in controversy, and only to the extent necessary to resolve the controversy'" (quoting *Vivid Techs., Inc. v. Am. Sci. & Eng'g, Inc.*, 200 F.3d 795, 803 (Fed. Cir. 1999))).

D. Discretionary Denial — 325(d)

1. Legal Standard

Patent Owner argues that we should exercise our discretion to deny institution of trial under 35 U.S.C. § 325(d). Prelim. Resp. 3–17. Under § 325(d), we have discretion to deny a petition that presents the same or substantially the same prior art or arguments as previously presented to the Office. In evaluating whether the factual predicate under § 325(d) is met,

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[9] If either party intends to further argue claim construction at trial, including what is the plain and ordinary meaning of a term, they should do so in a clearly designated section of their briefing so as to expressly identify such arguments. *See, e.g.*, 37 C.F.R. § 42.104(b)(3) (content of petition); *see also* Patent Trial and Appeal Board Consolidated Trial Practice Guide (CTPG), 84 Fed. Reg. 64,280, at 46, 48–45 (Nov. 2019) (available at https://www.uspto.gov/TrialPracticeGuideConsolidated). Claim construction arguments should not be relegated to patentability arguments on the facts. Failure to do so will result in forfeiture of all implicit claim construction arguments.

we consider a number of non-exclusive factors, as set forth in *Becton, Dickinson & Co. v. B. Braun Melsungen AG*, IPR2017-01586, Paper 8 at 17–18 (PTAB Dec. 15, 2017) (Institution Decision) (precedential as to Section III.C.5, first paragraph) ("*Becton Dickinson* factors"):

> (a) the similarities and material differences between the asserted art and the prior art involved during examination;
>
> (b) the cumulative nature of the asserted art and the prior art evaluated during examination;
>
> (c) the extent to which the asserted art was evaluated during examination, including whether the prior art was the basis for rejection;
>
> (d) the extent of the overlap between the arguments made during examination and the manner in which Petitioner relies on the prior art or Patent Owner distinguishes the prior art;
>
> (e) whether Petitioner has pointed out sufficiently how the Examiner erred in its evaluation of the asserted prior art; and
>
> (f) the extent to which additional evidence and facts presented in the Petition warrant reconsideration of the prior art or arguments.

Becton, Dickinson, IPR2017-01586, Paper 8 at 17–18.

In performing an analysis under § 325(d), the Board uses the following two-part framework:

> (1) whether the same or substantially the same art previously was presented to the Office or whether the same or substantially the same arguments previously were presented to the Office; and (2) if either condition of first part of the framework is satisfied, whether the petitioner has demonstrated that the Office erred in a manner material to the patentability of challenged claims. . . . If, after review of [*Becton Dickinson*] factors (a), (b), and (d), it is determined that the same or substantially the same art or arguments previously were presented to the Office, then factors (c), (e), and (f) relate to whether the petitioner has demonstrated a material error by the Office.

Advanced Bionics, LLC v. MED-EL Elektromedizinische Geräte GmbH, IPR2019-01469, Paper 6 at 8, 10 (PTAB Feb. 13, 2020) (Institution Decision) (precedential) (footnote omitted). Consequently, we first turn to an analysis of *Becton Dickinson* factors (a), (b), and (d) to determine whether the same or substantially the same art previously was presented to the Office or whether the same or substantially the same arguments previously were presented to the Office.

2. Part One of the Advanced Bionics *Analysis*

Becton Dickinson factors (a), (b), and (d) require us to determine, respectively: (a) "the similarities and material differences between the asserted art and the prior art involved during examination;" (b) "the cumulative nature of the asserted art and the prior art evaluated during examination," and (d) "the extent of the overlap between the arguments made during examination and the manner in which Petitioner relies on the prior art or Patent Owner distinguishes the prior art." *Becton, Dickinson*, IPR2017-01586, Paper 8 at 17.

Patent Owner argues that "Petitioner correctly acknowledges that [Neibauer and Cheng] were considered and made of record by the Examiner." Prelim. Resp. 6. Patent Owner further argues that Squibbs, Miller, and Harvey are "substantially similar to art previously before the Examiner." *Id.* at 8. In particular, Patent Owner argues that the pertinent functionality of Miller relied on by Petitioner, namely, "creat[ing] a web-based community and specify[ing] the specific features (e.g. message board, etc.) to include," is disclosed in Agboatwalla,[10] "which was before the Examiner." *Id.* at 8. Patent Owner further argues that the other references

[10] US 7,802,207 B2, issued September 21, 2010 (Ex. 2003).

the Petitioner relies on were substantially the same as prior art the Office previously considered. *Id.* at 9–11.

Petitioner argues that although Neibauer and Cheng were considered during prosecution, they were only mentioned in an Information Disclosure Statement and were "among hundreds of prior art references cited during prosecution." Pet. 4. Petitioner further argues that the Office "cited and relied on both Neibauer and Cheng in the successful reexamination of [U.S. Patent No. 8,135,801] patent (to which the present '801 patent was terminally disclaimed) which resulted in cancellation of all claims." Pet. 5; *see also* Pet. Prelim. Reply 1–2.

Petitioner further argues that neither Squibbs, Miller, nor Harvey were presented during prosecution. Pet. 3. Petitioner further argues that those references are not substantially the same as prior art considered by the Office. Pet. Prelim. Reply 2–3.

We disagree with Patent Owner that all of the references Petitioner is relying on are the same or substantially the same as references that were before the Office. In particular, there is no dispute that Miller was not considered by the Office. *See* Prelim. Resp. 6–13; Ex. 1001, code (56). Further, we do not agree with Patent Owner that Miller is substantially the same as Agboatwalla. Specifically, Petitioner relies on Miller for being able to select different types of communication tools for a group:

> Miller discloses a number of web-based forms that allow the user to (among other things) specify a name and description for the environment (Fig. 13B) identify the members of the environment (Fig. 13C, 14A-C), and select the various communication features (e.g. bulletin board, etc.) that will be available for members (Fig. 16). (Miller, 0045:12-0046:27.) *With respect to the selection of communications features, Miller discloses a user interface for allowing the user to select (from a list) the*

> *particular features that will be included in the collaborative environment.* (Miller, Fig. 16, 0047:31-0048:9, 0042:29-32 ("The group creator selects from among these functions, preferably by way of an easy-to-use web browser interface, and these choices are stored in a database and associated with the group members.").) These selections are then used in creating the environment or group. (Miller, 0043:3-6 ("In step 1104, the environment is created… to permit the group members to activate the functions selected for the group."); EX1002, ¶96.)

Pet. 18–19 (emphasis added).[11] We have reviewed the section of Agboatwalla to which Patent Owner directs us (Ex. 2003, 2:32–50) and do not see substantially the same functionality. Although Agboatwalla describes a user being able to select what content may be viewed (*see id.*), Patent Owner does not direct us to, and we do not see, Miller's teaching of selecting different types of communication pathways that may be selected for a group. Accordingly, Miller is not substantially the same as Agboatwalla.

3. Conclusion

Based on our consideration of *Becton Dickinson* factors (a), (b), and (d), we find that the same or substantially the same art or arguments were not previously presented to the Office. Thus, our analysis ends at this point, and we need not proceed to part two of the *Advanced Bionics* framework. *See Advanced Bionics*, IPR2019-01469, Paper 6 at 8. We therefore decline to exercise our discretion to deny institution based on 35 U.S.C. § 325(d).

[11] References to Miller are to Petitioner's pagination in the exhibit, for consistency with the Petition.

E. Neibauer, Miller, Cheng, and Squibbs

Petitioner argues that claims 1–25 would have been obvious over Neibauer, Miller, Cheng, and Squibbs. Pet. 3, 11–44. Based on the current record, we are sufficiently persuaded that Petitioner has established a reasonable likelihood of prevailing on this asserted obviousness ground with respect to at least claim 1.

1. Overview of Neibauer

Neibauer describes a feature of the Yahoo! Web site called Yahoo! Clubs, which is "a group of Yahoo! members who share a common interest," and which "has its own message board and chat room, as well as places to share photographs, news, addresses, and links." Ex. 1003, 473.[12] According to Neibauer, there are official, listed, and unlisted clubs hosted by Yahoo!. *Id.* Official clubs are created by Yahoo!, listed clubs are open to all Yahoo! members, and unlisted clubs are private clubs, and only "members who were invited to join may join the club and be able to access it." *Id.* A founder can create a club "to share information privately," and "can invite others to join, delete members, control the contents of photo albums, and customize the photo and messages on the club's home page." *Id.* at 480.

[12] References to Neibauer are to the original page numbers, for consistency with the Petition.

Neibauer Figure 21-13, reproduced below, illustrates a club page.

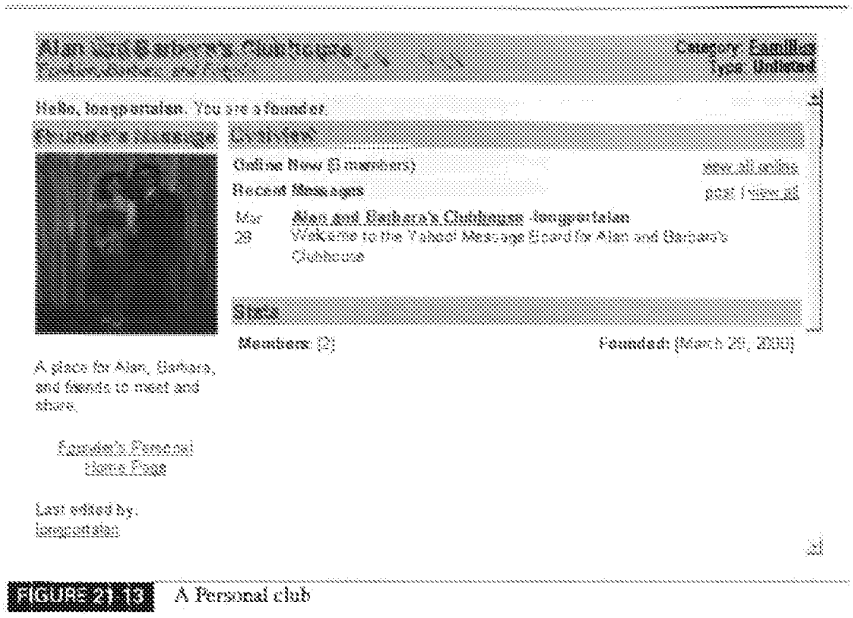


FIGURE 21-13 A Personal club

Figure 21-13 is an illustration of a personal club page. Ex. 1003, 482–83. According to Neibauer, it "contains all of the elements found on other club pages." *Id.* Club members may use a private message board to post messages or comment on other messages, as well as access a private chat area that provides for voice-chat and text-only chat. *Id.* at 477, 479. Club members may also share photographs organized in group or personal albums. *Id.* at 477.

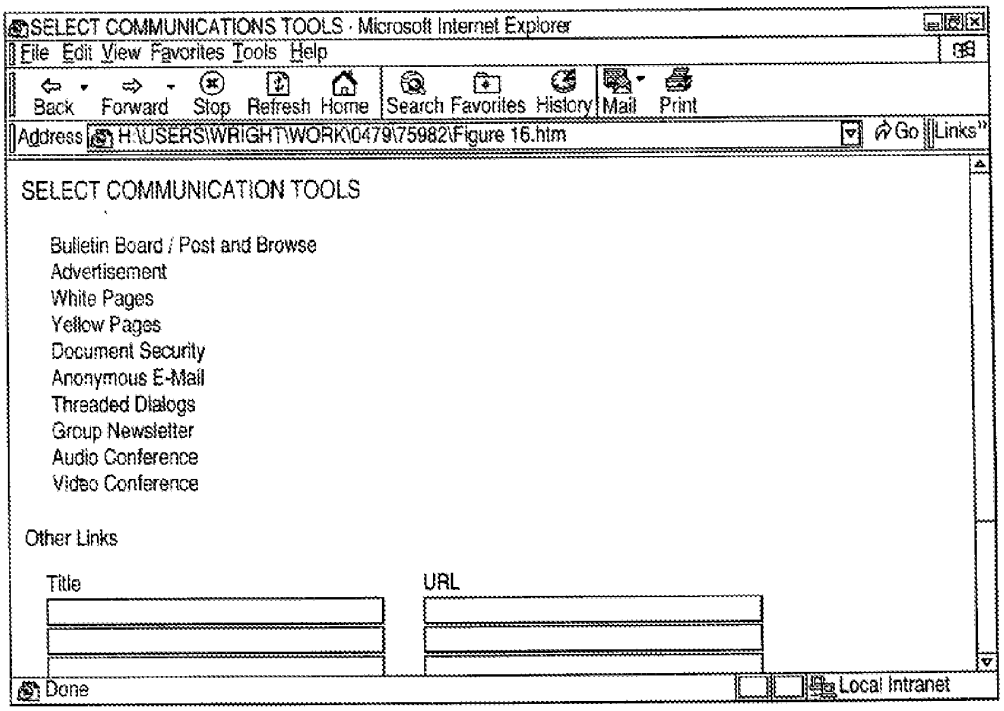
Neibauer further describes a product called Yahoo! Mobile that "lets you get many Yahoo! Services on mobile devices." Ex. 1003, 166. Within the Yahoo Mobile! product, a "Yahoo! To Go option lets you set up your mobile device and Yahoo! so that they work together, as well as specify the content that will be sent to your device." *Id.* at 167. For example, the Yahoo! On Your PDA feature "lets you set up to browse Yahoo! using a custom menu from the Web browser on your PDA." *Id.* at 171.

2. Overview of Miller

Miller is titled "User-Defined Dynamic Collaboration Environments" and relates to "[a] collaborative system and method [that] allows members of a group to collaborate on a project such as a bid or proposal." Ex. 1004, codes (54), (57). In an embodiment concerning "a dynamic collaborative environment, a user can define a group and a virtual private network environment including user-selected tools that facilitate communication, research, analysis, and electronic transactions within the group." *Id.* at code (57). In particular, a group creator selects group members either by selecting from a list, by invitation, or by solicitation through advertising, and selects functions available to the group "preferably by way of an easy-to-use web browser interface." *Id.* at 41:12–42:32. In addition to the selected functions, a "group creator can specify links to other web-based or network-based applications that are not included in the list by specifying a web site address, executable file location, or the like" or "define shared data libraries that will be accessible to group members." *Id.* at 42:32–43:2. Once the environment is created, "group members collaborate and communicate with one another using the facilities and resources (e.g., shared data) available to group members." *Id.* at 43:13–14.

Miller Figure 16 is reproduced below.

FIG. 16



Miller Figure 16 shows an exemplary "user interface for selecting communication tools to be made available to group members." Ex. 1004, 47:31–32. A screen that is "presented to the user creating the environment after the group has been identified and its members selected" may include communication tools such as:

> a bulletin board service; advertisements; white pages (e.g., a listing of members, their e-mail addresses, telephone numbers, and the like); yellow pages (e.g., a listing of services or companies represented by group members, with promotional and contact information); document security (e.g., shared access secure document storage services); anonymous e-mail (described above with respect to the first embodiment); threaded dialogs; a group newsletter creation tool; videoconferencing; and even other user-provided applications that can be specified by name and location (e.g., URL).

Id. at 47:32–48:9.

3. Overview of Cheng

Cheng is titled "Web Page Content Translator" and relates to "reformatting web content into a format readable on one or more mobile devices." Ex. 1005, codes (54), (57).

Cheng Figure 1 is reproduced below.

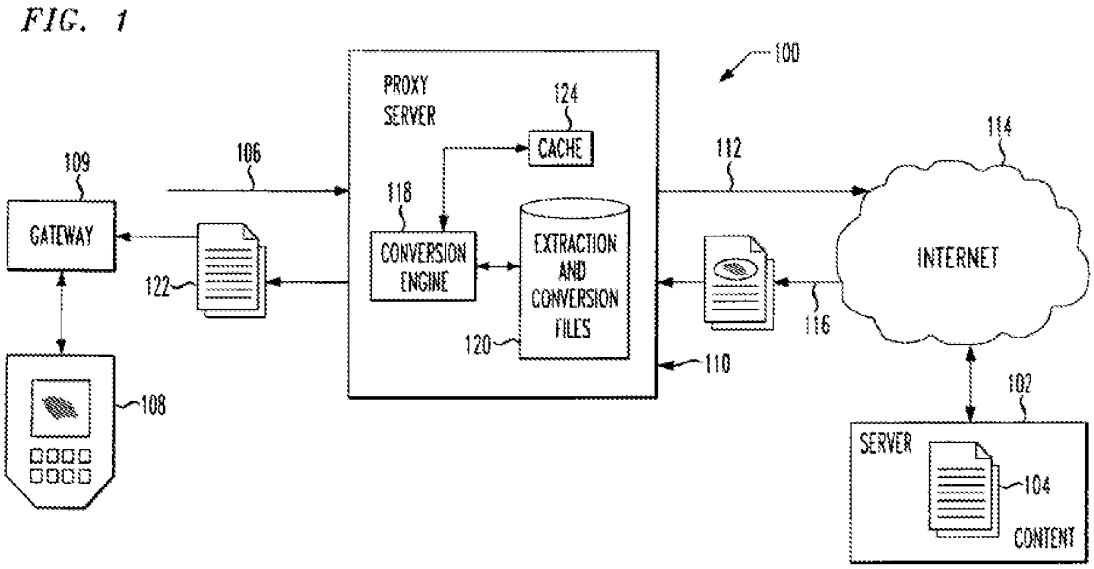


Figure 1 illustrates "a representative simplified block diagram of a mobile device, a proxy server, and a content server." Ex. 1005, 2:57–60. Specifically, architecture 100 includes proxy server 110, which "reformats/converts web content 104 on an origin web server 102 into a format 122 readable on any mobile device 108." *Id.* at 3:21–25. "Upon a request 106 from a mobile device 108 for a given web page 104 . . . the process for providing a reformatted/converted and extracted web page 104 begins." *Id.* at 3:58–63. If "the requested page 104 resides at the server 102, the proxy server 110 makes a request 112 for the page." *Id.* at 3:65–67. Proxy server 110 and server 102 are connected via network 114, which may be the Internet. *Id.* at 4:1–2. Server 102 returns web page 104 to proxy

server, where "web page 104 is typically an HTML file with references to any component .wav, .mov, and/or Joint Photographic Experts Group (JPEG) files." *Id.* at 4:8–13. Conversion engine 118 in proxy server 110 "accesses a predefined extraction and conversion file associated with the mobile device 108 and/or web page 104," and "uses the expressions defined therein" to perform designated operations on, for example, HTML code in web page 104. *Id.* at 4:17–21, 5:42–46. Reformatted web page 122 is then transmitted to mobile device 108. *Id.* at 5:46–49.

4. Overview of Squibbs

Squibbs is titled "Location-Informed Camera" and relates to "a camera which can obtain location data about its current location and associate it with image recordings." Ex. 1011, code (54), ¶ 1. Specifically, Squibbs describes a photo system with a digital camera that includes location determining means, such as a GPS receiver, for generating digital photos that are stamped with location data indicating the location where the photo was taken. *Id.* ¶ 31. "Other data may also be associated with each photo, such as a timestamp, a camera ID, and a user ID," which is referred to as photo metadata. *Id.* Photos and their metadata may be downloaded to a computer where an "album program enables user to catalogue, manage and view their photos through a map-based interface, the photos being represented on a displayed map by a marker indicating the location they were taken." *Id.* ¶¶ 31–32.

In an embodiment where a digital camera does not have location determining means, a cell phone that can ascertain its location may be used for obtaining location information. *See* Ex. 1011 ¶¶ 95–98. The digital camera may obtain location data from the cell phone and associate it with a last-taken photo (*id.* ¶ 99), or, alternatively, a photo may be associated with

location data by uploading photo image data through the cell phone to a network store of a service system, during or after which location data is obtained from the cell phone or from a location server and then associated with the photo image data (*id.* ¶ 101, Fig. 11).

5. Analysis of Claim 1

a) The Undisputed Preamble

The preamble of claim 1 recites "[a] method." Ex. 1001, 18:57. Petitioner argues that Neibauer teaches the preamble of claim 1. *See* Pet. 11–12.

After reviewing Petitioner's arguments and information regarding the preamble, including the Madisetti Declaration, which are not addressed by Patent Owner at this stage (*see* Prelim. Resp.), we are persuaded that Petitioner sufficiently demonstrates, for purposes of this Decision, that Neibauer teaches the preamble of claim 1.[13]

b) Limitation 1a

Claim 1 further recites "[1a] 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." Ex. 1001, 18: 58–61. For the reasons set forth below, we are sufficiently persuaded by Petitioner's argument and evidence that the combination of Neibauer and Miller teach limitation 1a. *See* Pet. 12–20.[14]

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[13] Because Petitioner has sufficiently shown that the prior art teaches the preamble, we need not determine at this time whether the preamble is limiting. *See Nidec*, 868 F.3d at 1017.

[14] Petitioner also presents alternative theories as to how the combination of Neibauer, Cheng, and Miller teaches limitation 1a. *See* Pet. 20–26. For example, Petitioner relies on the features of Yahoo! Mobile "to the extent

continued on the next page

Neibauer teaches a web-based interface, shown in Figure 21-12, that can be used by a founder (first user) to create a new Yahoo! Club. Ex. 1003, 480–81; Ex. 1002 ¶¶52, 86–88. Figure 21-12 is reproduced below.

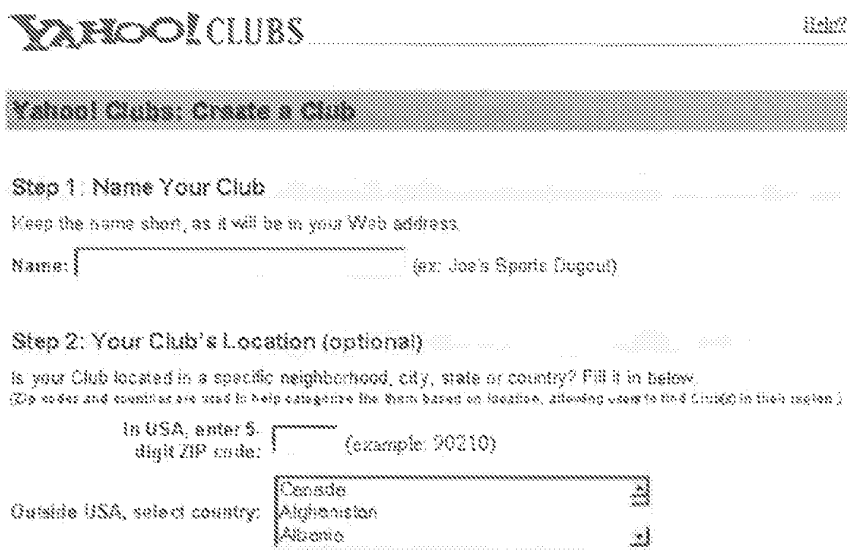

FIGURE 21-12 Creating a club

Ex. 1003, 481. Figure 21-12 shows the interface used to create a Yahoo! Club. *Id.* The Yahoo! Club is created when the user enters the necessary information and selects a "Yes! I accept." Ex. 1003, 481; Ex. 1002 ¶ 87. In other words, Neibauer teaches providing a first interface shown in Figure

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mobile device were construed as requiring a handheld device." *Id.* at 20–21. As another example, Petitioner argues that "[i]nformation channels that are '**mobile**' would also have been obvious over Neibauer and in further view of Cheng." *Id.* at 22. As yet another alternative, Petitioner presents arguments based on claim constructions that were proposed in the pending district court litigation. *See* Pet. 26–29. Because we are sufficiently persuaded that the combination of Neibauer (without Yahoo! Mobile) and Miller teaches limitation 1a, we do not address Petitioner's alternative arguments that further rely on Cheng.

21-12 (an interface) that is a person to create a Yahoo! Club. *See* Ex. 1002 ¶ 87.

Neibauer also teaches various ways that users of a Yahoo! Club can share content. *See* Ex. 1002 ¶¶ 89–92. For example, a Yahoo! Club can include a message board which "can be compared to a bulletin board on an office wall. It's a place to leave messages to others and to read their replies." Ex. 1003, 468; *see also id.* 469–71, 477; Ex. 1002 ¶ 89. Another example is a chat feature, club chat, which allows Yahoo! Club members to engage in real-time communications. Ex. 1003, 479; Ex. 1002 ¶ 90. A third example is the ability the share photographs with other Yahoo! Club members. Ex. 1003, 477–78; Ex. 1002 ¶ 91. Each of the Yahoo! Club features above allow users to share content, such as messages or photographs, with other club members. *See* Ex. 1002 ¶ 92. Stated differently, Neibauer teaches various ways "through which the first user can share access to content with a plurality of additional users," as recited in claim 1. *See id.*

Additionally, based on the current record, a person having ordinary skill in the art would have understood that the various Yahoo! Club features described above are examples of "information channels" as recited in the '801 patent. *See* Ex. 1002 ¶ 93. According to the '801 patent, a mobile information channel or M-channel "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." Ex. 1001, 8:11–23. Examples of M-channels includes a "discussion forum," "chat," and "photo blog." *Id.* at 8:33–44. Those features are the same or substantially the same

as Yahoo! Club message board, chat, and photo sharing features, described in Neibauer. Ex. 1002 ¶ 93.

Based on the current record, it would have been obvious to a person having ordinary skill in the art to use the features of the Yahoo! Club (information channels) with a mobile device, thus using a "mobile information channel" as recited in claim 1. *See* Ex. 1002 ¶ 101. A person having ordinary skill in the art would have known that a person could use a conventional computer, such as a laptop computer, to run a web browser to visit pages on the internet, such as Yahoo!, including Yahoo! Clubs. *Id.* Because the '801 patent describes a laptop computer as a "mobile device," (Ex. 1001, 4:38–42), the "information channels" described in the previous paragraph are "mobile information channels" as recited in claim 1 when used with a laptop computer (Ex. 1002 ¶ 101).

Based on the current record, the combination of Neibauer and Miller teaches "control[ling] activation of a mobile information channel," as recited in claim 1. As discussed above, the first user can create a Yahoo! Club by supplying the necessary information and selecting "Yes! I accept." Neibauer is silent on whether the user can select which specific mobile information channels are associated with the Yahoo! Club. However, Miller teaches a similar collaborative web-based system in which the group's creator can use an interface to choose specific communication pathways to allow:

> *FIG. 16 shows one possible user interface for selecting communication tools to be made available to group members.* This screen can be presented to the user creating the environment after the group has been identified and its members selected. It is contemplated that a variety of communication tools can be provided, including a bulletin board service; advertisements; white pages (e.g., a listing of members, their e-mail addresses, telephone numbers, and the like); yellow pages (e.g., a listing of

> services or companies represented by group members, with promotional and contact information); document security (e.g., shared access secure document storage services); anonymous e-mail (described above with respect to the first embodiment); threaded dialogs; a group newsletter creation tool; videoconferencing; and even other user-provided applications that can be specified by name an location (e.g., URL).

Ex. 1004, 47:31–48:10 (emphasis added); *see also id.* at 42:29–32 ("The group creator selects from among these functions, preferably by way of an easy-to-use web browser interface, and these choices are stored in a database and associated with the group members."); Ex. 1002 ¶ 96. The combination of Miller's teaching of selecting different methods of communication with Neibauer's teaching of Yahoo! Clubs would allow the founder to select specific mobile information channels for the group to use. *See* Ex. 1002 ¶¶ 95–100.

Based on the current record, a person having ordinary skill in the art would have combined those teachings in the manner described above. *See* Ex. 1002 ¶¶ 97–100. Specifically, a person having ordinary skill in the art would have combined Miller's ability to select communication channels with Neibauer's Yahoo! Club in order "to enhance the flexibility and customizability of clubs in Neibauer." *Id.* ¶ 99. This would allow the founder to eliminate certain features that "may not have been particularly useful or desirable for some clubs." *Id.* Additionally, a person having ordinary skill in the art would have had a reasonable expectation of success. *See id.* ¶ 100.

Accordingly, the combination of Neibauer and Miller teaches limitation 1a.

Patent Owner argues that aside from mapping the limitations identified above to disclosure in Neibauer, "Petitioner does not provide any

additional explanation for how the information is ***shared with a plurality of users*** as the limitations are arranged in the claim." Prelim. Resp. 28. Specifically, Patent Owner argues that "Neibauer is devoid of such functionality as it is focused only on the limited read-only functionality of mobile access to traditional websites," and that there is no evidence the Yahoo! Clubs functionality Petitioner relies upon "could have been supported by users accessing the services on a mobile device." *Id.* (citing Ex. 2001 ¶¶ 54–57). According to Patent Owner, Neibauer's disclosure of the Yahoo! Mobile and Yahoo! To Go functionalities do not cure this deficiency. *Id.* at 28–29. Importantly, Patent Owner argues, these functionalities are "limited to a user's one-way access and viewing of information originating with the Yahoo! Software platform," and there is no evidence they "would have allowed mobile users to actually post content" associated with Yahoo! Club features. *Id.* (citing Ex. 2001 ¶ 58); *see also id.* at 29 (citing Ex. 2001 ¶¶ 59–62, 65–66).

We do not agree with Patent Owner's argument. First, as discussed above, based on the current record, Neibauer discusses ways that members of Yahoo! Clubs can interact using the club message board, chat, and photo sharing features. For example, the club messages feature allows users to post and read messages posted by other members. Ex. 1003, 469–71, 477; Ex. 1002 ¶ 89. Similarly, the club chat feature allows users club members to send private messages to each other, another type of interaction. Ex. 1003, 479; Ex. 1002 ¶ 90. And the photo sharing feature allows users to post photographs and view the photographs posted by other users. Ex. 1003, 477; Ex. 1002 ¶ 91.

Second, although not explicitly stated in the Preliminary Response, based on the cited testimony of Dr. Almeroth, it appears that Patent Owner's

primary issue is the lack of a teaching in Neibauer that connects the features of Yahoo! Clubs with Yahoo! Mobile. *See* Ex. 2001 ¶¶ 54–66. However, as discussed above, we do not rely on Petitioner's alternative arguments directed to handheld devices using Yahoo! Mobile. Instead, as discussed above, we focus on the use of laptop computers and Yahoo! Clubs. Patent Owner does not address that combination. *See* Prelim. Resp. 25–30.

Patent Owner further argues that Cheng does not cure the deficiencies of Neibauer because "Cheng is explicitly designed for one-way data transfer in response to a request from a mobile client." Prelim. Resp. 29 (citing Ex. 2001 ¶¶ 75–76, 80). In particular, Patent Owner argues that Cheng fails to teach the persistent connections between a client and server typically present for uploading data to a server. *Id.* (citing Ex. 2001 ¶ 86).

Similarly, Patent Owner argues that Petitioner's combination of Neibauer and Cheng relies on a "basic fallacy" in which "mobile devices available at the time of the invention were capable of receiving and displaying complex websites such as those shown in Neibauer at all, much less capable of supporting the internal functionality needed for the interactive features of" Yahoo! Clubs. Prelim. Resp. 31. Patent Owner asserts that Petitioner fails to provide "evidence that a [person having ordinary skill in the art] actually ***could*** have achieved such a combination," and that "Petitioner's arguments that a [person having ordinary skill in the art] ***would*** have sought to do so amount to nothing more than anachronistic, impermissible hindsight." *Id.*; *see also id.* at 31–40 (detailed discussion).

Patent Owner's arguments relating to Cheng are inapposite. As discussed above, for limitation 1a, we rely on Petitioner's argument based on Neibauer and Miller and do not rely on the alternative argument based on the combination of Neibauer, Miller, and Cheng. *See* Pet. 21 (explaining that

Cheng is an alternative argument: "Information channels that are 'mobile' *would also have been* obvious over Neibauer and in further view of Cheng." (emphasis added) (emphasis in original omitted)). Even if we agreed with Patent Owner's arguments regarding Cheng, that agreement would have no impact on our preliminary determination based on Neibauer and Miller.[15]

c) Undisputed Limitation 1b

Claim 1 further recites "[1b] activating the mobile information channel responsive to input received from the first user via the interface." Ex. 1001, 18:62–63. Petitioner argues Neibauer teaches that limitation. *See* Pet. 29

After reviewing Petitioner's arguments and information regarding the limitations identified immediately above, including the Madisetti Declaration, which are not addressed by Patent Owner at this stage (*see* Prelim. Resp.), we are persuaded that Petitioner sufficiently demonstrates, for purposes of this Decision, that Neibauer teaches limitation 1b.

d) Limitation 1c and 1d

Claim 1 further recites "[1c] inserting content provided by the first user into the mobile information channel; [1d] 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." Ex. 1001, 18:64–19:2. Petitioner argues that the combination of Neibauer and Cheng teaches the limitations. *See* Pet. 30–34. For the reasons set forth below, we are sufficiently persuaded by Petitioner's arguments.

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[15] Patent Owner does not set forth any argument challenging Petitioner's rationale to combine Neibauer and Miller. *See* Prelim. Resp. 30-40.

Neibauer describes how a club member, which can include the founder (first user) can leave a message on the message board. *See* Ex. 1003, 470–72; Ex. 1002 ¶¶ 119–120, 123. Similarly, the club founder could add a photograph or send a private message using the chat feature. Ex. 1003, 477–79; Ex. 1002 ¶¶ 121–122. Based on the current record, a person having ordinary skill in the art would have understood that the message (content) would have been "'insert[ed] . . . into the mobile information channel,' as it would have been available through" the club message board, photo sharing feature, and chat. Ex. 1002 ¶ 120–123 (emphasis omitted).

Similarly, based on the current record, a person having ordinary skill in the art would also understand that a club member besides the founder (one or more of said additional users) would be able to add additional content (messages, photographs, or chats) that would be received by the club members. Ex. 1002 ¶ 124. It also would have been obvious to a person having ordinary skill in the art that an additional user using a mobile device, such as a laptop, would have used a well-known wireless network, such as GSM, to connect with the internet to add and receive the content. Ex. 1002 ¶ 125; *see also* Ex. 1003, 171 (describing how a mobile device could use a GSM phone modem); Ex. 1004, 2:4–7 ("[T]he present invention provides a system, method, and medium that extracts a portion of web page content and reformats the extracted content for delivery to one or more wireless devices."), 5:33 (mobile device 108 can include "a cellular telephone")).

Accordingly, the combination of Neibauer and Cheng teaches limitations 1b and 1c.

Patent Owner relies on the same arguments discussed above for limitation 1a. That is, Patent Owner's argument are focused on the specific

implementations of the references and an explanation as to what a person having ordinary skill in the art (1) would not have been able to use the feature of Yahoo! Clubs with Yahoo! Mobile and (2) how the specific implementation of Cheng could not be combined with Yahoo! Clubs. *See* Prelim. Resp.

As it relates to "inserting comments" in limitation 1c and "receiving additional comments," we do not agree with Patent Owner's arguments for the same reasons discussed above with regard to limitation 1a.

As it relates to "at least one wireless network," although Patent Owner raises arguments as to why a person having ordinary skill in the art would not have combined the Yahoo! Clubs of Neibauer with the specific implementations of Yahoo Mobile! and Cheng, Patent Owner does not rebut Petitioner's evidence regarding using a well-known cellular communication platform such a GSM with mobile devices such as a laptop, which we find persuasive. *See* Prelim Resp. 25–42.[16]

e) Undisputed Limitations 1e and 1f

Claim 1 also recites

> [1e] inserting at least a portion of the additional content into the mobile information channel; and
>
> [1f] integrating into the mobile information channel information associated with at least one wireless networking functionality of said at least one wireless network.

Ex. 1001, 19:3–7. Petitioner argues that the combination of Neibauer and Squibbs teaches these limitations and that a person having ordinary skill in

[16] To the extent Patent Owner argues that such a combination would not have been obvious to a person having ordinary skill in the art, Patent Owner must explicitly do so in the Response or forfeit the argument.

the art would have combined the references with a reasonable expectation of success. *See* Pet. 34–44.

After reviewing Petitioner's arguments and information regarding the limitations identified immediately above, including the Madisetti Declaration, which are not addressed by Patent Owner at this stage (*see* Prelim. Resp.), we are persuaded that Petitioner sufficiently demonstrates, for purposes of this Decision, that the combination of Neibauer and Squibbs teaches each of these limitations.

f) Conclusion Regarding Claim 1

Based on the current record, there is a reasonable likelihood that Petitioner will prevail in demonstrating that claim 1 is unpatentable as obvious in view of Neibauer, Miller, Cheng, and Squibbs.

6. Analysis of Claims 2–25

Because Petitioner demonstrates a reasonable likelihood of success in proving that at least one claim of the '801 patent is unpatentable, we institute on all grounds and all claims raised in the Petition. *See* 37 C.F.R. § 42.108(a). Therefore, at this stage of the proceeding, it is not necessary for us to provide an assessment of every challenge raised by Petitioner, especially, as in this case, when Patent Owner does not separately argue those claims. Those challenges, in our view, are best left for trial after full development of the record.

F. Remaining Ground

Petitioner also challenges the patentability of claims 1–25 based on the addition of Harvey to the combination discussed above. *See* Pet. 3, 67–70. Patent Owner does not separately address the merits of Petitioner's prior art challenge including Harvey. *See* Prelim. Resp. 40–41.

Because Petitioner meets the threshold for institution by demonstrating a reasonable likelihood that at least claim 1 is unpatentable as obvious, we need not decide whether Petitioner's other challenge demonstrates the same. This challenge, in our view, is best left for trial after full development of the record.

III. CONCLUSION

Following 35 U.S.C. § 314, we have determined that the totality of the information presented at this stage shows there is a reasonable likelihood that Petitioner would prevail with respect to at least one of the claims challenged in the Petition, and we institute on all grounds raised and all claims challenged in the Petition. Additionally, we decline to exercise our discretion under § 325(d) to deny institution.

Our factual findings, conclusions of law, and determinations at this stage of the proceeding are preliminary, and based on the evidentiary record developed thus far. This is not a final decision as to the patentability of claims for which *inter partes* review is instituted. Our final decision will be based on the record as fully developed during trial.

IV. ORDER

In consideration of the foregoing, it is hereby

ORDERED that, pursuant to 35 U.S.C. § 314(a), an *inter partes* review is instituted for claims 1–25 of the '801 patent on the unpatentability grounds asserted in the Petition; and

FURTHER ORDERED that pursuant to 35 U.S.C. § 314(c) and 37 C.F.R. § 42.4, notice is hereby given of the institution of a trial, which commences on the entry date of this Decision.

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