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

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

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

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

Application Number	15889781
Filing Date	2018-02-06
First Named Inventor	David Walker Harper
Title	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility Over Wireless Communication Networks
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	1018-2 CON8

SIGNATURE of Applicant or Patent Practitioner

Signature	/Joseph B. Ryan/	Date (Optional)	2018-02-06
Name	Joseph B. Ryan	Registration Number	37922
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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

☑ *Total of 1 forms are submitted.

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

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

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

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

POWER OF ATTORNEY BY APPLICANT

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

Application Number	Filing Date

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

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

OR

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

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

☑ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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

Engagelogic Corporation

☐ Inventor or Joint Inventor (title not required below)

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

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

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

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

Signature		Date (Optional)	
Name	David W. Harper		
Title	President, Engagelogic Corporation		

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

☐ Total of forms are submitted.

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

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

Electronic Acknowledgement Receipt

EFS ID:	31717303
Application Number:	15889781
International Application Number:	
Confirmation Number:	1070
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	80167
Filer:	Joseph Bernard Ryan/Lisa Vulpis
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON8
Receipt Date:	06-FEB-2018
Filing Date:	
Time Stamp:	16:25:10
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	1018-2CON8_POA.pdf	674662 75a2d8f2b7c9244c9438c9d55f2506608811 5ee7	no	2

Warnings:

Information:	
Total Files Size (in bytes):	674662

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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
15/889,781	02/06/2018	2414	785	1018-2 CON8	20	3

CONFIRMATION NO. 1070

FILING RECEIPT

80167
Ryan, Mason & Lewis, LLP
48 South Service Road
Suite 100
Melville, NY 11747

OC000000098044892

Date Mailed: 03/15/2018

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)

Engagelogic Corporation, Smithtown, 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 15/448,064 03/02/2017 PAT 9922348
which is a CON of 14/324,698 07/07/2014 PAT 9619578
which is a CON of 14/175,768 02/07/2014 PAT 8825801
which is a CON of 13/364,950 02/02/2012 PAT 8793336
which is a CON of 13/027,519 02/15/2011 PAT 8135801
which is a CON of 12/548,928 08/27/2009 PAT 7908342
which is a CON of 10/464,526 06/18/2003 PAT 7599983
which claims benefit of 60/389,430 06/18/2002

Foreign Applications 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.

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 03/13/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/889,781**

Projected Publication Date: 06/21/2018

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.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/889,781

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*	x 50 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*	x 230 =	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	785		TOTAL	

APPLICATION AS AMENDED - PART II

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

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

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/889,781	02/06/2018	David Walker Harper	1018-2 CON8

CONFIRMATION NO. 1070

80167
Ryan, Mason & Lewis, LLP
48 South Service Road
Suite 100
Melville, NY 11747

PUBLICATION NOTICE



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

Publication No.US-2018-0174196-A1
Publication Date:06/21/2018

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 Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, 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 https://portal.uspto.gov/pair/PublicPair. 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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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

Application Number	15889781
Filing Date	2018-02-06
First Named Inventor	David W. Harper
Art Unit	3622
Examiner Name	Nathan C. Uber
Attorney Docket Number	1018-2 CON8

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	7668913	B1	2010-02-23	Underwood et al.	
	2	7640512	B1	2009-12-29	Appling	
	3	7590681	B1	2009-09-15	Chang et al.	
	4	6915328	B2	2005-07-05	Turnbull	
	5	6714778	B2	2004-03-30	Nykänen et al.	
	6	6519241	B1	2003-02-11	Theimer	
	7	6240360	B1	2001-05-29	Phelan	
	8	6112206		2000-08-29	Morris et al.	

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

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	20010034746	A1	2001-10-25	Tsakiris et al.	
	2	20010056460	A1	2001-12-27	Sahota et al.	
	3	20020101848	A1	2002-08-01	Lee et al.	

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

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	02/03243	WO	A1	2002-01-10			☐
	2	01/29573	WO	A2	2001-04-26			☐

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	S. CHEN ET AL., "WAP (Wireless Application Protocol)," http://www.tml.tkk.fi/Studies/Tik-110.300/1998/Essays/wap.html, November 20, 1998, 6 pages.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

	2	U.S. Patent Application Serial No. 09/651,796, filed in the name of John Underwood et al., on August 30, 2000, and entitled "Method and Apparatus for Generating a Web Site with Dynamic Content Data from an External Source Integrated Therein."	☐
	3	D. FENSEL, ET AL., "The Semantic Web and Its Languages, IEEE Intelligent Systems and Their Applications, November/December 2000, pp. 67-73	☐
	4	Y. DIMOPOULOS ET AL., "Information Integration and Computational Logic," https://arxiv.org/abs/cs/0106025, June 11, 2001, 53 pages.	☐
	5	G. K. DORAI ET AL., "Embedded Grammar Tags: Advancing Natural Language Interaction on the Web," IEEE Intelligent Systems, January/February 2002, pp. 48-53.	☐
	6	S. A. MCILRAITH ET AL., "Mobilizing the Semantic Web with DAML-Enabled Web Services," Proceedings of the Second International Conference on Semantic Web, 2001, 11 pages.	☐
	7	Declaration of Mark Crovella, Ph.D. In Support of Petition for Inter Partes Review of Claims 1, 4-5, 9-11, and 16-20 of U.S. Patent No. 7,908,342, IPR2018-01131, Filed May 31, 2018, 157 pages.	☐
	8	Declaration of Mark Crovella, Ph.D. In Support of Petition for Inter Partes Review of Claims 1-4, 6-8, and 12-15 of U.S. Patent No. 7,908,342, IPR2018-01132, Filed May 31, 2018, 156 pages.	☐
	9	Petition for Inter Partes Review of Claims 1, 4-5, 9-11, and 16-20 of U.S. Patent No. 7,908,342, IPR2018-01131, Filed May 31, 2018, 77 pages.	☐
	10	Petition for Inter Partes Review of Claims 1-4, 6-8, and 12-15 of U.S. Patent No. 7,908,342, IPR2018-01132, Filed May 31, 2018, 72 pages.	☐
	11	MICROSOFT CORPORATION, "Microsoft Computer Dictionary," 2002, Fifth Edition, pg. 564.	☐
If you wish to add additional non-patent literature document citation information please click the Add button			

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2018-07-06
Name/Print	Joseph B. Ryan	Registration Number	37922

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

Electronic Acknowledgement Receipt

EFS ID:	33109412
Application Number:	15889781
International Application Number:	
Confirmation Number:	1070
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	80167
Filer:	Joseph Bernard Ryan/Lisa Vulpis
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON8
Receipt Date:	06-JUL-2018
Filing Date:	06-FEB-2018
Time Stamp:	15:14:43
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	Foreign Reference	1018-2CON8_REF1F.pdf	2496122 962d393385a18fbb1d7bdb6452fcef8411cf8bf0	no	49

Warnings:

Information:					
2	Foreign Reference	1018-2CON8_REF2F.pdf	2050086 cd46c88f51b3983b70156c14967f9ded1f402994	no	45
Warnings:					
Information:					
3	Non Patent Literature	1018-2CON8_REF1N.pdf	657171 624be18a72dc5087449aa8ae0fe2752355af631f	no	6
Warnings:					
Information:					
4	Non Patent Literature	1018-2CON8_REF2N.pdf	9837684 f8c17caf2a02faa842b7f6e52cf8502c3d66528b	no	178
Warnings:					
Information:					
5	Non Patent Literature	1018-2CON8_REF3N.pdf	1112735 832c76863c4b706e7cfe41375430fd898ad9dc44	no	7
Warnings:					
Information:					
6	Non Patent Literature	1018-2CON8_REF4N.pdf	2918521 84e37a5dbaf8525aae935f124926c500400ceff8	no	53
Warnings:					
Information:					
7	Non Patent Literature	1018-2CON8_REF5N.pdf	1196876 343a90e71e25b8137c6395922175ff201ff8da03	no	6
Warnings:					
Information:					
8	Non Patent Literature	1018-2CON8_REF6N.pdf	1167749 d8a3f6887926306210cedcfa14b996abc32dc4a4	no	11
Warnings:					
Information:					

9	Non Patent Literature	1018-2CON8_REF7N.pdf	6811311 7ba2d528651b126a641ac473611ec6b1b46c2624	no	157
Warnings:					
Information:					
10	Non Patent Literature	1018-2CON8_REF8N.pdf	6728226 75253ce11f667edafb48586fa1bcb2763d082a55	no	156
Warnings:					
Information:					
11	Non Patent Literature	1018-2CON8_REF9N.pdf	3316814 a490e1e4a3c1e145153eefab19e0f1ce65cdee93	no	77
Warnings:					
Information:					
12	Non Patent Literature	1018-2CON8_REF10N.pdf	2991476 1c8ba52c45f730d19f84611e6e0348cafca579c2	no	72
Warnings:					
Information:					
13	Information Disclosure Statement (IDS) Form (SB08)	1018-2CON8_IDS.pdf	785438 d0c38e18ae9ddbf71ea9bb7f9c0b95f8781333e3	no	5
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
14	Non Patent Literature	1018-2CON8_REF11N.pdf	902304 f3647427b5e48812290dbf4c3953eead7673e74a	no	3
Warnings:					
Information:					
		Total Files Size (in bytes):	42972513		

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.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 January 2002 (10.01.2002)

PCT

(10) International Publication Number
WO 02/03243 A1

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

(21) International Application Number: PCT/AU01/00774

(22) International Filing Date: 29 June 2001 (29.06.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

PQ 8475	30 June 2000 (30.06.2000)	AU
PQ 8476	30 June 2000 (30.06.2000)	AU

(71) Applicant *(for all designated States except US)*: **WESTFIELD LIMITED** [AU/AU]; Level 24 Westfield Towers, 100 William Street, Sydney, NSW 2011 (AU).

(72) Inventors; and

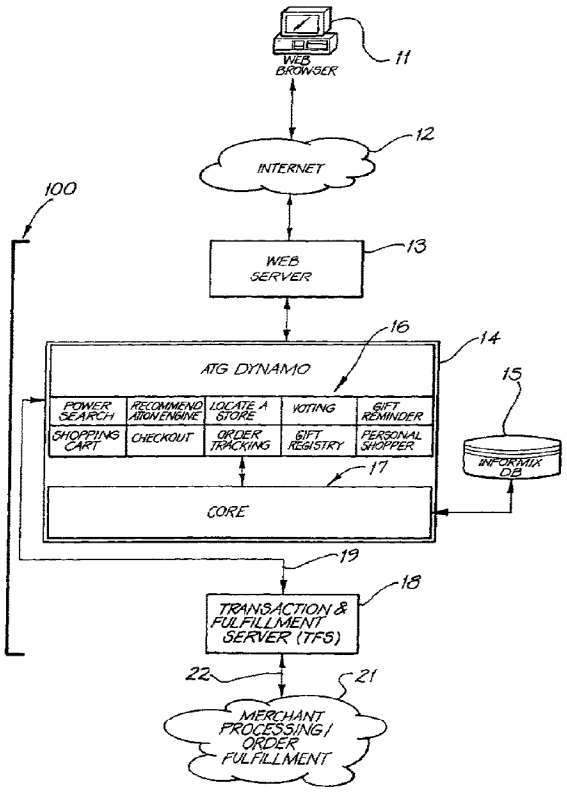
(75) Inventors/Applicants *(for US only)*: **AUSTIN, Daniel** [AU/AU]; Level 24 Westfield Towers, 100 William Street, Sydney, NSW 2011 (AU). **BUNGARD, Kevin** [AU/AU]; Level 24 Westfield Towers, 100 William Street, Sydney, NSW 2011 (AU). **HURST, Scott** [AU/AU]; Level 24 Westfield Towers, 100 William Street, Sydney, NSW 2011 (AU). **KEDZIER, Dana** [AU/AU]; Level 24 Westfield Towers, 100 William Street, Sydney, NSW 2011 (AU).

(74) Agent: **F B RICE & CO**; 605 Darling Street, Balmain, NSW 2041 (AU).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,

[Continued on next page]

(54) Title: INTEGRATION OF THIRD PARTY SITES INTO INTERNET MALL



(57) Abstract: A web site structure and a method of building a web site for an internet shopping mall in which a number of different and independent retailers are represented on web pages produced on the shopping mall site but under each retailers individual control. The web site is structured to provide seamless integration of resident and third party internet sites into a portal shopping site, while maintaining the integrity of the third party sites, and providing access to shopper service functions aggregated across and accessible from the resident and third party internet sites. The site also provides product and consumer profiling to provide an enhanced shopping experience, by matching product and consumer profiles when serving pages to a consumer. The web site also provides a transaction management system which manages an aggregated transaction and fulfilment workflow for a plurality of transactions of concurrent transactions.

WO 02/03243 A1

SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

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

Published:
— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A seamless integrated aggregated shopping site

Introduction

The present invention relates generally to the field of e-commerce and in particular the invention provides a web site structure and a method of building a web site for an internet shopping mall in which a number of different and independent retailers are represented on web pages produced on the shopping mall site but under each retailers individual control.

Background

Prior art web sites that linked different retail services were initially simply web pages with links through to independent retailer web sites, however this mechanism did not allow any aggregation of services at the mall site.

Subsequent improvements to such sites involved passing information between the Mall site and the retailer site to enable checkout functions to appear to be aggregated at the mall site but in fact the transaction details were sent back to the individual retailers who then performed the financial transactions with an appropriate bureau and arranged delivery. Such sites still did not provide any aggregation of services other than checkout services and provision of a pseudo-shopping cart to enable the purchaser to collect items from one or more retailers before completing the purchases. Further the building of the retailer site was done by the retailer and no integration of the pages of the Mall and retailer sites was possible.

Some more recent sites have been created which collect together retail services that would have previously been provided by different retailers (eg. Books and Hardware) and provided the services in different pseudo-stores on the "Mall" site but in effect the retail services were all provided by the one provider and the design and construction of the web pages of the individual pseudo-stores were all performed centrally by the mall site operator.

Throughout this specification the word "comprise", or variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated element, integer or step, or group of elements, integers or steps, but not the exclusion of any other element, integer or step, or group of elements, integers or steps.

Any description of prior art documents herein is not an admission that the documents form part of the common general knowledge of the relevant art in Australia.

Meta's Exhibit 1022
Page 00173

Summary of the invention

According to a first aspect the present invention consists in a method of building a web page on a first internet site operated by a first computer system where the page is an amalgamation of elements from at least two sources including a first and second source where the elements from the first source comprise elements common to a plurality of pages on the first internet site and the second source is a second computer system operating a second independent internet site, the page being defined by template components which specify format and data items defining detail in respective page elements, the method comprising the steps of:

a) when the page is requested by a user accessing the first internet site, obtaining a page-template component supplied from a template storage means on the first computer system, the first page-template component defining locations on the page for placement of data items from a first items database associated with the first internet site;

b) combining the first page-template component with a second page-template component supplied from a template component storage means on the second computer system, the second page-template component defining locations on the page for placement of data items from a second items database associated with the second internet site;

c) obtaining first data items associated with the first page-template component from the first database and inserting the first data items into the page at the locations defined by the first page-template component;

d) obtaining second data items associated with the second page-template component from the second database and inserting the second data items into the page at the locations defined by the second page-template component; and

e) providing the page to the user.

According to a second aspect, the present invention consists in a method of building a web page on an internet site where the page is an amalgamation of page defining elements including at least two template elements defining page format of respective page components of the web page and data items defining detail in respective page elements, the method comprising the steps of:

Meta's Exhibit 1022
Page 00174

a) when the page is requested by a user accessing the internet site, obtaining a page-template component supplied from a template storage means, the first page-template component defining locations on the page for placement of data items from a first items database associated with the internet site;

b) combining the first page-template component with a second page-template component supplied from a template component storage means, the second page-template component defining locations on the page for placement of data items from a second items database associated with an information provider other than the internet site;

c) obtaining first data items associated with the first page-template component from the first database and inserting the first data items into the page at the locations defined by the first page-template component;

d) obtaining second data items associated with the second page-template component from the second database and inserting the second data items into the page at the locations defined by the second page-template component; and

e) providing the page to the user.

According to a third aspect, the present invention consists in a telecommunication signal representing an internet web page image generated by a web site and comprising an amalgamation of at least two page components, the amalgamated page image being produced by the web site from a first page-template component and a second page-template component, the page-template components each defining locations on the page for placement of data items from respective databases associated with each template component.

Preferably the components which make up the signal are obtained as follows:

a) the first page-template component is supplied from a template storage means, the first page-template component defining locations on the page for placement of data items from a first items database;

b) the second page-template component is supplied from a template component storage means, the second page-template component defining locations on the page for placement of data items from a second items database;

c) the first data items associated with the first page-template component are obtained from the first database and one inserted into the page at the locations defined by the first page-template component;

d) the second data items associated with the second page-template component are obtained from the second database and are inserted into the page at the locations defined by the second page-template component.

In preferred embodiments of the invention, cache means are provided in the first computer system whereby, for pages that are requested often by users, the second page-template component is temporarily stored in the cache means, the second page-template component being retrieved from the cache if it is currently held in the cache and otherwise being retrieved from the template storage means in the second computer system. The cache means is preferably a pre-emptive cache whereby the pages are pre-fetched and periodically updated in anticipation of users requesting them, however it is also possible to use a non-pre-emptive cache in which case the second page-template component is temporarily stored in the cache means when the page is requested for a first time and is flushed from the cache if the page is not requested again within a period of time determined by the first computer system.

The second database is preferably located locally to the first computer system and is a copy of a third database held remotely of the first computer system, the second database being updated intermittently to reflect data changes that have occurred on the third data base.

The second page-template component comprises a page template of the second internet site, and the first page-template component is a component used to add content relating to the shopping mall site, the first page-template component, when combined with the second page-template component forming a border along a side of an information carrying portion of the second page-template component and the second page-template component being resized if necessary to produce a page that fits within a page dimension specification of the first internet site.

The first page-template component defines layout of a first page component, and content relevant to the first page-template component is preferably defined by a first content database, which is separate from the first items database, the content of the first content database comprising at least

Meta's Exhibit 1022
Page 00176

one display element and the data items of the first items database providing details of the display elements provided from the first content database.

The second page-template component defines a layout of a second page component, and content relevant to the second page component is preferably defined by a second content database separate from the second items database, the content of the second content database comprising at least one display element and the data items of the second database providing details of the display elements provided from the second content database.

Alternatively it is also possible to define a page by having each of the page-template components define layout and content of a respective component of a page, where the content includes at least one display element and the data items of the first and second databases provide details of the display elements for the first and second page-template components respectively.

In yet another possible arrangement, each of the page-template components define only layout of a respective component of a page and the first and second items databases provide content items for each respective page component and data items for each respective content item.

According to a fourth aspect the present invention consists in a method for seamless integration of resident and third party internet sites into a portal shopping site, while maintaining the integrity of the third party sites, and providing access to shopper service functions aggregated across and accessible from the resident and third party internet sites, wherein a new shop site is integrated into the portal shopping site by the steps of:

a) amending a Shop Site Data Schema to reference retailer data relevant to the new shop site;

b) providing Shop Site HTML Pages for the new shop site;

c) positioning aggregated function tags in the Shop Site HTML pages to indicate the locations of portal shopping site functions to be included on the new shop site pages, the portal shopping site shopping site functions comprising aggregated shopper service functions and data linking functions which enable the specification of data identification means to link the retailer data to page elements of the new shop site pages;

d) when one of the new shop site pages is requested by a site visitor via an internet browser, fetching the Shop Site HTML pages from a page store

using an Aggregated Shop Build Engine, parsing the Shop Site HTML pages to interpret the aggregated function tags, executing code from a code base to insert the respective portal shopping site functions associated with the aggregated function tags into the page, whereby data relevant to each aggregated function tag is fetched from the data store, the Shop Site HTML pages are modified to substitute the fetched data for the relevant aggregated function tags, and the modified page is returned to the browser for display to the site visitor.

Preferably the data linking functions provide links to data required for variable display elements of the respective page, and in particular the data required may comprise stock data from a stock database, and/or image data from an image database.

Preferably also the aggregated shopper service functions comprise a plurality of functions each of which provides a link to at least one non-retailer page of the portal shopping site or at least one shopper service function. Some aggregated shopper service functions include:

a) a shopping cart function whereby a site visitor may gather one or more products intended to be purchased;

b) a checkout function whereby a site visitor may complete a purchase transaction in respect of any one or more products they wish to purchase;

c) an order tracking function whereby a site visitor may obtain a status of a delivery in respect of a purchase transaction previously completed;

d) a wish list function whereby a site visitor may record one or more products that they would like to purchase or receive as gifts in the future;

e) a wish gift registry whereby a site visitor who is an intended recipient of gifts at a planned celebration may record one or more products that they would like to receive as a gift in respect of the planned celebration, and a site visitor wishing to give a gift to the intended recipient may select a product from the products recorded by the intended recipient, purchase the product and have the purchased product delivered to the intended recipient;

f) a gift finder function whereby a site visitor may use a recommendation engine to recommend one or more products available via one of the shop sites of the portal shopping site for selection as a gift for another person;

g) a personal shopper function whereby a site visitor may use a recommendation engine to recommend one or more products available via

Meta's Exhibit 1022
Page 00178

one of the shop sites of the portal shopping site to assist the site visitor in choosing a product for purchase for their own use;

h) a Shop Together function whereby a site visitor may communicate with another site visitor while browsing the portal shopping site and its included integrated shop;

i) a Jump to shop function whereby a list of shop sites on the portal shopping site are provided to the site visitor and the site visitor may jump to a shop site by selecting the shop site from the list;

j) a shop finder function whereby an address of a physical shop of a retailer represented by a shop site on the portal shopping site is provided to the site visitor. Preferably, the shop finder function accepts a physical address from the site visitor and provides an address of a physical shop of the retailer which is the closest physical shop of the retailer to the physical address provided by the site visitor;

k) a dressing room function whereby a site visitor may view and compare products comprising clothing, foot ware jewellery or accessory items being considered for purchase;

l) a gift wrapping service function whereby a site visitor may request a product being purchased be gift wrapped prior to delivery. Preferably the gift wrapping service function offers to the site visitor a range of gift wrapping styles and options for the wrapping of the product.

In a particularly preferred embodiment, a power bar, comprising a panel displaying portal shopping site information, is appended to the Shop Site HTML page when building the modified page which is returned to the browser and at least a subset of the aggregated shopper service functions are provided within the power bar.

In the case where a new shop site is a resident shop site, the aggregated function tags preferably reference function data and retailer specific data held within databases resident on the computer systems hosting the portal shopping site.

In the case where a new shop site is a new shop site is an integrated shop site, the aggregated function tags preferably reference function data held within databases resident on the computer systems hosting the portal shopping site and retailer specific data held in databases resident on a site of the respective retailer remote from the computer systems hosting the portal shopping site.

Meta's Exhibit 1022
Page 00179

Preferably also, in the case of an integrated shop site, the aggregated function tags are Linked Site Meta Language components which specify retailer specific data and a network address of a server on which the data is resident and to allow recognition and interpretation of page elements of the third party site by the aggregated shop build engine.

The preferred method also includes the step of:

a) creating a Shop Site Definition File which maps site-specific features of a third party site to functionally equivalent features within the Portal Shopping Site; and

b) marking up a page of a third party site with tags which indicate locations of site-specific features of the third party site and map the respective features to functionally equivalent features within the Portal Shopping Site.

Preferably also, the Aggregated Shop Build Engine uses a proxy module to fetch target web pages dynamically from an existing third party shop site.

Brief Description of the Drawings

Embodiments of the invention will now be described by way of example with reference to the accompanying drawings in which:

Figure 1 is a high level block diagram of the overall structure of an Internet Shopping Mall according to the present invention;

Figure 2 is a block diagram showing the functional structure of an Internet Shopping Mall according to the present invention;

Figure 3 is a block diagram showing the integration structure of the Mall Site of Figures 1 and 2;

Figure 4 is a block diagram illustrating a shop building function within the Internet Shopping mall of Figures 1, 2 and 3;

Figure 5 is a block diagram illustrating a possible hardware configuration for the Internet Shopping Mall of Figures 1, 2, 3 and 4;

Figure 6 is a block diagram illustrating a possible logical configuration for the Internet Shopping Mall of Figures 1, 2, 3 and 4;

Figure 7 illustrates an example of a retailer webpage; and

Figure 8 is a workflow diagram for an auto-management system.

Detailed Description Of The Preferred Embodiment

In a preferred embodiment of the invention, an Internet Shopping Mall is provided, in which multiple retailers will be aggregated under the one banner of the Mall operator. This site includes a number of innovative functions including:

- Simple integration of Retailers from their existing Web Sites into the Mall Site.
- Merchandising facilities across all retailers, including search.
- Aggregated shopping cart with single transactions and fulfilment.

Internet Shopping Mall Architecture

Figure 1 illustrates the Internet Shopping Mall site architecture of the preferred embodiment. Users will be able to access the Internet Shopping Mall shopping functions via a web browser 11 and the Internet 12.

The Internet Shopping Mall of the present invention is preferably implemented around three major components:

1) The Internet Shopping Mall System (ISMS) 17; and
2) The Transaction and Fulfilment Server (TFS) 18; and
3) The Retailer Enablement Server (RES).

These three components interact to provide the full functionality required by an internet shopper.

The Internet Shopping Mall System (ISMS)

The public "face" of the internet shopping mall is the Internet Shopping Mall Server (ISMS). It is the job of the ISMS to present pages to shoppers, accept orders, and provide updates to shoppers of an orders progress. Pages will be served via a web server 13 connected to a Java based application server 14. The application server contains a common code library that control access to a JDBC (Java Database Connectivity) relational database. Also contained on the application server are the Customer Applications 16 that are built using the common services layer contained in the common code library.

In the preferred embodiment, the ISMS 17 provides the following databases:

- Product / SKU database (catalogue and stock details)
- Retailer database (participating retailer information)
- Shopper database (including user profile information)
- Content databases (including matching profiles)

In addition, the ISMS will provide the following required functionality:

- provide a means for the Customer Applications to access the database tables, and for committing and rolling back database transactions
- manage user profile information

Meta's Exhibit 1022
Page 00181

- manage the association of user profile information with products in the database
- house the business rule that decide which content will be displayed to which users based on profile information
- house the consumer applications that allow shoppers to organise products they are interested in, such as adding products to shopping carts, wish lists, gift registries or reminders.

The Transaction and Fulfilment Server (TFS)

For payments and orders, the Customer Applications will communicate with the Transaction and Fulfilment Server (TFS) 18. It is the job of the TFS to process orders, including payment, shipping, and "track and trace" of parcels in shipment. Communication with the TFS will be via XML messages 19 passed over a CORBA bus or using HTTP. In turn the TFS will communicate 22 with a bank and payment gateway for merchant payment processing, and communicate with either (a) a central warehouse; or (b) individual retailer stock points to perform order fulfilment 21.

As part of its functional requirements, the TFS contains a single database: the orders database. This database tracks the status of every order. The ISMS may query this database, via the TFS, on behalf of a shopper or retailer requesting the status of a particular order.

In the preferred embodiment, the TFS is also responsible for the following functionality:

- handle the transaction and fulfilment of orders.
- manage partially fulfilled orders.
- provide a HTTP/XML API for order management.
- provide a HTTP/XML API for committing and rolling back transactions on the order database.

The Retailer Enablement Server (RES)

The third feature of the preferred embodiment for an Internet Shopping Mall is the Retailer Enablement Server (RES). The job of the RES is to act as the coordinator between the shopper facing ISMS, the bank, warehouse and courier facing TFS, and the retailers who must fulfil the orders and respond to customer inquiries. In the preferred embodiment, the RES contains both an XML and HTTP based API to assist in direct integration with a retailer's legacy stock control or point of sale system, as well as a HTML based interface for those retailers wishing to defer integration.

Through either the API or the HTML "back office" system, the retailer will check orders, respond to customer enquiries, and update order status through to the TFS.

The RES is the mechanism by which a retailer is able to access all the pending orders for goods that it has received via the ISMS; update the status of such orders (eg "pending", "shipped", "delivered"); and respond to customer enquiries such as when ordered goods are out of stock.

In the preferred embodiment, the RES provides the following functionality:

- a HTTP/XML API to allow retailers to retrieve lists of pending orders and to update the status of orders
- provide an API and functioning back office system that utilises that API to allow retailers to update stock data, or integrate legacy systems into the ISMS stock database.

Internet Shopping Mall Integration

The Functional Structure of The Internet Shopping Mall site is illustrated in Figure 2 and the Integration Structure of the site is illustrated in Figure 3.

Shoppers

The shoppers 31 represent an important point of interface with the site 100. Their interaction with the site may be limited to a single point, the web server 13, and their connection method will usually be HTTP (or HTTP + SSL), plus SMTP. Alternatives may include wireless protocols such as WAP

Shoppers 31 will be able to transact on the site and use the advanced functionality with a basic web browser and without special plugins – however they will either need to have cookies enabled or the ISMS Application Server will need to embed a session identifier in the page URLs.

Retailers

Retailers 32 are preferably integrated on three levels (refer to Figure 4):

1. **database:**
   - stock control integration: connections with legacy stock control databases to maintain very up to date stock information on the Internet Shopping Mall site;
   - Point of Sale databases integration, for recording of purchase orders and managing fulfilment.

The integration point is with the RES.

2. **pages:** management of page templates to define the display of product and supporting pages. The integration point is with the ISMS.
3. **functionality:** integration with advanced retailer functionality currently offered on a retailer's existing web site beyond that already offered on the Internet Shopping Mall site.

In addition, retailers 32 may want to use a Content Management System accessed via the XML gateway 121 to define promotions, manage content on home pages (etc).

Retailer Stock Integration

The present invention addresses, inter alia, two crucial aspects of managing an internet shopping mall site. Both are concerned with retail "stock" or product data.

1. **Available stock information:** This involves maintaining accurate product information concerning available stock (ie what is available for sale via the ISMS), including price, availability and shipping times.
2. **Purchased stock information:** This involves maintaining accurate information concerning stock that has already been sold, including shipping details, whether the product must be ordered from a supplier (a "back order") and when it has been delivered.

The preferred embodiment encompasses the present invention by addressing these two points within the RES. The RES provides an interface for updating both available stock information and purchased stock information.

In the preferred embodiment, the RES provides an XML based API. The transport mechanism is SOAP, an HTTP based protocol that includes an XML encapsulation layer. The XML API addresses all stages of the product data lifecycle. The utilisation of SOAP as the preferred transport mechanism allows for relatively cheap, easy and open integration with legacy systems. The XML messages may be based on industry standards, or may be a proprietary standard that uses XSL to convert between the industry and proprietary standards. This allows very wide integration with legacy components.

The single RES API may be accessed by multiple retailer legacy systems, dealing with either point of sale, stock control or product catalogue information. The RES API can also allow integration directly with retail suppliers.

Meta's Exhibit 1022
Page 00184

However, not all retailers have sufficiently sophisticated systems to achieve this kind of integration. Other retailers may wish to defer investment in integration during difficult market periods or when IT resources are stretched. For this retailers, a separate "back office" system can be provided. The Back Office would essentially be a stand alone point of sale system, allowing retailers to updating product catalogue information (description, price, images); stock availability (stock on hand, shipping times); and order processing (order status, changes in order contents). The Back Office would utilise the RES API like any other point of sale or stock control system. In fact, the Back Office would be provided to retailers in source code form, or released under an open source license such as the GNU Public License.

The RES API allows for retailers to have their stock control information can be integrated at varying levels. In order of sophistication (and broad preference), they are:

1. **live:** A copy of the retailer's products database is kept on Internet Shopping Mall. Updates are maintained in real time, with retailer and web site updates being synchronised between databases.
2. **batch:** Same technical setup as live, however changes are 'batched' and processed at timed intervals (e.g. every hour).
3. **manual:** Retailer does not have their own stock control database, or wants to keep stock control separate. All stock is maintained manually using the RES Back Office.

Retailer HTML Page integration

The Retailers 32 on the Internet Shopping Mall will generally fall into different classes of e-commerce readiness. It should be noted that a retailer's web sophistication is independent of their stock control database sophistication (for example, a retailer with no existing site may nevertheless have very good stock control databases).

Depending on the retailer's satisfaction with their existing e-commerce site, or whether or not they have an existing e-commerce site at all, a retailer may chose to design new pages for their ISMS presence, or have their existing pages automatically fetched by the ISMS for presentation to the shopper. Through a retailer management centre 33 retailers 32 use a *page loader* to either (1) load new HTML pages for the Internet Shopping Mall site ("custom page template model"); (2) nominate URLs where Internet Shopping

Mall can load the required pages from their existing site ("reverse proxy template model"); or (3) a mix of 1 and 2.

To serve a page to a shopper 31, the page server 110 can follow a number of possible paths, however, essentially the differences generally relate to the source of information rather that the process.

The page server pulls information from several sources to build a single page as follows:

1. Page server receives a request from the application server for a page relating to a specific retailer, possibly including a request for information on a specific category (eg "men's shoes"), product, or both;
2. Page server identifies correct source for the relevant template, based on the template model (custom or reverse-proxy) that relates to that retailer, category and/or product. If the custom model is being used, fetches the template from the retailer's mall site template database 116. If the reverse-proxy model is being used, retrieves the template from the retailer's non-mall site template database 216 (usually, the retailers pre-existing e-commerce site). Commonly requested elements may be retrieved directly from a cache 112, no matter which model is being used;
3. Page server retrieves the retailer's product catalogue data held in the retailer's mall site stock database 111, which is updated from the retailer's non-mall stock database 211 on a regular basis. The page server then inserts the information into the relevant areas on the page, as indicated by the template code. If the reverse-proxy model is being used, additionally strips out content indicated by the retailer as not being relevant to the mall site, and inserts new content indicated by the retailer as being required for the mall site;
4. Page Server adds the mall site "power-bar" template or other mall defined templates which are retrieved from the mall site template database 117 (applies to all pages); and
5. The mall provided content, which is retrieved from the mall site content.

These components are assembled by the page server 111 to produce a composite page for serving to the shopper 31. Referring to Figure 5, an image of a retailer page as served to a user by the shopping mall site is illustrated by way of example. The page is divided into a retailer area 250 which occupies most of the screen and a mall site area 150 which occupies the upper and right hand edges. The retailer area is defined by a retailer page template

Meta's Exhibit 1022
Page 00186

which includes locaters to indicate insertion points for the page content. The page content may include a retailer's logo or banner 252, a number of other graphics or descriptive items 253 from the contents database 113 or 213 and stock information (such as price and availability) from the stock database 111. The shopping mall area 150 is merged with the retailer area by merging the respective templates. The mall area will include a variety of content including current news items 153 or, promotional items 153, navigational buttons 151 to allow the user to navigate around the mall and a house icon or banner 152 which are all obtained from the mall sites content database 114.

Retailer Advanced Functionality Integration

Many retailers 32 on the Internet Shopping Mall site 100 will not offer any functionality beyond that outlined below for the Internet Shopping Mall. However a small number of advanced retailers have specialised functionality. An advantage of the page integration mechanism described above is that it can cater for retailers with existing e-commerce sites that have advanced functionality (eg a computer reseller that allows a shopper to design and "build" their own computer based on custom requirements). This is achieved by using the "reverse proxy" method of fetching a page template described above.

Payment Processing (Banks)

Integration with the banks or payment gateways 301 is required to facilitate shopper transactions through payments from credit card accounts to merchants 32.

The web server (ISMS) receives the initial transaction request from the shopper in aggregate form (ie contains the requested products across all retailers). The web server passes the transaction to the Transaction and Fulfilment Server (TFS) which disaggregates the transaction, processes the component parts, and passes status information back to the web server for further processing (e.g. displaying receipt numbers, reporting failed transactions, etc). Communication occurs via XML objects passed over a CORBA bus. Alternatively, an HTTP interface may be available, similar to the RES SOAP model.

The transaction module within the TFS is designed to be able to handle the numerous bank errors, service outages and rollbacks that will arise in a running system. The system can also handle multiple payment

Meta's Exhibit 1022
Page 00187

methods within the one aggregated transaction. This is achieved by the use of server-side e-wallets to hold multiple payment method information.

Process overview:

1. The shopper, after accumulating goods and services in their shopping cart and filling in their payment and delivery details, clicks Buy to complete the transaction.
2. The web server fetches the contents of the shopping basket from the session manager and formats an XML transaction request object. The object is passed to the TFS.
3. The TFS disaggregates the transaction. That is, it divides the transaction into merchants, calculates totals for each merchant, and loops through the merchants in a pre-defined order:
   a) for each merchant, pass a transaction request to the payment gateway;
   b) the payment gateway selects a transaction gateway 301 based on the preferred acquiring bank for that merchant. It is the payment gateway that contains the routing table for each merchant;
   c) the payment gateway is responsible for any immediate retries (e.g. due to connection timeout or broken link), possibly switching the transaction to a second (backup) acquiring bank 300 or gateway 301 if the first is not responding;
   d) the payment gateway returns the response from the transaction gateway 301 using a common XML response object.
4. After receiving final responses from all gateways, the TFS aggregates them into a new XML response object, and passes it back to the web server. The web server may need to initiate new transactions (e.g. with a different shopper credit card) but these are not distinguished from initial transactions and follow the same pattern.

Stock point Integration (Warehouse & Retailers)

The Internet Shopping Mall provides a central warehouse to facilitate most retailer fulfilment needs. In addition to the Internet Shopping Mall warehouse(s), some retailers will wish to fulfil orders out of existing facilities without holding stock at the Internet Shopping Mall warehouse. Cross-docking is therefore provided to facilitate aggregated delivery. In a cross-dock, a retailer sends their goods to the warehouse to be packed into the

same shipping parcels as a customer's other orders. The retailer saves on shipping costs, since they can send all their internet-ordered products to one location in one shipment. The customer also saves on shipping costs, since all their goods are shipped together.

After payment processing and retailer notification the TFS:

- **for retailers aggregating fulfilment with Internet Shopping Mall:** notify the warehouse (fulfilment partner 400) to pick, pack and ship.
- **for retailers performing their own fulfilment:** notify retailer (i.e. acting as fulfilment partner 400) of goods to ship and delivery details;
- **for both:** track the shipment from purchase to Proof Of Delivery (POD) by accepting updates from fulfilment providers 400 and third parties.

The architecture is very similar to that of the payment gateway 301, consisting of a pseudo-gateway which will route to the warehouse or retailer as appropriate (via the RES).

The fulfilment gateway 401 sends orders to the warehouse and allows fulfilment providers 400 and couriers to update the status of an order on its way to the shopper's delivery address(es). Aggregate orders are disaggregated and re-grouped by shipping address (since a single aggregate order can involve multiple delivery addresses). The gateway can feed information back through the retailer gateway to notify retailers of shipping status (e.g. return to retailer – no such address). The gateway also receives information back from the fulfilment providers to allow shoppers to query delivery status online.

Internet Shopping Mall Construction

Overview

The information below is intended to illustrate how the present invention may be used in the preferred embodiment to build an Internet Shopping Mall site that addresses limitations in the prior art.

System Modules

The system comprises the following modules:

- **Shopper Web Interface:** Specifies components visible to shoppers or supporting infrastructure. Consists of entry points (home pages); precincts; shop fronts, merchandising services and transaction services.
- **Back End Services:** Specifies supporting infrastructure not otherwise covered above, usually because it does not have an interface directly visible to users.

- **Back Office Services:** Management supporting services for both Internet Shopping Mall and the retailers. For example: promotion management, content management, reports.
- **Internet Shopping Mall Interface:** Interface components and supporting infrastructure for the Internet Shopping Mall Management Centre (WMC).
- **Retailer Interface:** Interface components and supporting infrastructure for the retailers and their Retailer Management Centre (RMC).
- **Transaction Fulfilment Server:** Components supporting the transaction and fulfilment server.

Shopper Web Interface

Entry into the Shopper Web Interface is via a series of electronic 'doorways' into the site – enhancing the basic catchment to encompass affiliate and partner relationships. All pages except the Main Page require a single click access to 'home'.

Internet Shopping Mall Main Page: The main page provides a primary entry to the site, featuring the most significant retailers, providing single click access to the key features and promoting high value elements.

The following functionality is associated with the Main Page:

1. Single click access to all the major precincts.
2. Single click access to each of the key site services (merchandising services and transaction support services).
3. Shop logos for retailers on the main page, which will rotate through the various available retailers dynamically. Retailer icons may be chosen at random, with the distribution being skewed based on popularity or license fees. Where a user is a repeat visitor and profiling information is available, retailers may be selected based on that user's profile.
4. Promotion space for some merchants, generated from the content management system (promotions subsystem).
5. Promotion space for Internet Shopping Mall and the site services.
6. The page may also include: voting spaces (to help build a user's profile, collect demographic information, etc); key news regarding Internet Shopping Mall physical centres; and a single large promotion space for a particular Internet Shopping Mall precinct (rotating through the various precincts at random).
7. Links to best-selling products and retailers.

Precincts: Precincts are a core merchandising component of the site, collecting retailers into areas of common interest to consumers and segmenting retailers to allow them to retain a point of difference. Retailers may appear in multiple precincts where relevant (indeed, they may appear in a number of different locations within a single precinct). The top level precincts may be chosen along different lines, for example:

- **Category:** Products and retailers grouped by category or subject matter. For example: fashion, health and beauty, food, home, gifts, SOHO, sports, toys, etc.
- **Event:** Products and retailers grouped by life stage event (e.g. birth, birthday, party, wedding, Christmas, etc).
- **Sale:** Collection of retailers and products currently on sale.
- **Centres:** Broken down by real-world mall. Each mall would contain the retailers who have a presence in that mall. Mall staff will also need to be able to add mall-specific content (e.g. current events at Miranda).

Core Precinct Requirements: Precincts share some common elements and structure. The following are goals and requirements that all precincts share.

Functionality that may be provided from the various Precincts includes:

1. Single click access to all the other major precincts and to the Internet Shopping Mall Main Page.
2. Single click access to each of the key site services.
3. Shop fronts for most significant retailers in precinct (only in precinct sub-categories).
4. Promotion and logo spaces for merchants and for Internet Shopping Mall services. Where retailers are listed in specific precincts, or have specific promotions, the capability to link to that specific area within the retailers site (and not just to the retailers home page).
5. Voting spaces, including feedback from previous surveys. Once a user has voted, the page should display aggregate results collected so far.
6. Key content relating to the particular precinct, pulled from the CMS.
7. List of precincts best-selling products and retailers.
8. Retailers may be listed in all precincts where they are relevant – as configured in the precincts database under the control of Internet Shopping Mall.

Meta's Exhibit 1022
Page 00191

9. Space for 'rotating' retailers, with the share of impressions based on popularity, user profile or fees paid.

Shops: The shops are the arrangements of all products, content and information relating to a particular retailer.

The functionality required to support Shops on the site are:

1. All shops should also have access to the common services in this section (e.g. gift registry) on a shop-wide scale.
2. All shop pages will contain the Internet Shopping Mall navigation bar, however the design of the rest of the page is entirely up to the retailer.
3. The minimum number of pages that may constitute a shop site is 4 or 5:
   - a main page (home page)
   - top-level category template
   - second-level category template (optional)
   - product template
   - an 'about us' page with contact information, return policy, etc.

The HTML pages define page structure – not content. In the preferred embodiment, the content is built dynamically from database sources (either the products database or CMS).

- The Internet Shopping Mall offers to retailers a service that utilises any investments they have already made in their web presence. The Internet Shopping Mall therefore reproduces only the HTML pages – leaving content and product data to be sourced from their databases via the retailer gateway and Internet Shopping Mall products database (which acts almost as a cache).
- The Mall of the present invention differs from previous attempts at mall design which shoe-horned retailers to fit into a particular template and page layout. The result was no branding or differentiating factors for retailers and a less than compelling experience for shoppers.

Search: The search facility provides rapid non-linear access to the site and allows shoppers to categorise the search by a variety of criteria.

- Useability research shows that users often resort to a search engine when it is not immediately apparent where they should proceed from a given page. In order to meet users requirements from a search engine, the preferred embodiment of the present invention would use thesauri and phonetic matching as well as freeform style search queries and use the inherently structured nature of the data to maximise relevance.

Meta's Exhibit 1022
Page 00192

Locate a Store: A service that allows shoppers to get the address and directions to the nearest outlet for a nominated retailer. This function provides accurate information (including map) on the location, and opening hours, of the nearest outlet of a given retailer, given a post code or suburb / state of the shopper.

Back End Services

Shop Build Engine: The shop builder allows retailers to build and maintain best-practice internet shops at significantly reduced cost by dynamically populating marked templates with product content.

The Shop Builder can support a scalable architecture for the site that can manage 400 retailers, by moving common functionality into a base engine and allowing the full retailer site to be built out of no more than a handful of templates by populating pages dynamically with database content. Dual-site generation facility is also supported, so that the shop build engine can build a Internet Shopping Mall integrated shop site as well as a 'neutral' shop site that does refer to Internet Shopping Mall but uses the same technical infrastructure to generate the site. The above is achieved without resorting to prior art templating techniques that homogenise retailers or restrict their design freedom beyond the requirements of the shop site specification. An overriding consideration of the Shop Builders that Pages must be built and returned to users quickly.

Shop Site Staging Area: The purpose of the Shop Site Staging Area (SSSA) is to provide a transition area for a retailer's web site design (HTML pages) to move to the Internet Shopping Mall Internet structure, format and architecture. It provides the retailer (or their web developer) a secure environment where they can:

- upload their web site;
- preview the uploaded web site (in HTML format);
- convert the web site to the Internet Shopping Mall format;
- preview their web site in the Internet Shopping Mall format.
- The SSSA also provides the environment for Internet Shopping Mall "mall" administrators to review and publish the web site to the live Internet Shopping Mall Internet mall.

Shop Site Construction

To provide a process to the retailer that applies minimal creative restriction in shop design while requiring no intervention from the retailer

(or Internet Shopping Mall) to move the shop design into the Internet Shopping Mall Internet format necessitates a number of guidelines.

Although the SSSA could be used as a development platform it is envisaged that the retailer's web developer will prefer to prototype and develop the web site on their own development environment.

Site Directory

The Internet Shopping Mall shop implementation is based upon a retailer defining templates for differing categories of products and templates for products within a category.

A key issue is to allow the web developer 500 and retailer 32 the freedom to organise and develop their site with no or minimal restrictions whilst being able to move the site into the Internet Shopping Mall format with no or little re-work.

To facilitate this process the web developer is required to define and implement the site category hierarchy in a web directory structure (there is potential to do this at various levels). Within each category directory would be a template (or pointer to a template) that would define how that category is to be displayed or how the products for that category are to be displayed.

An example is a web developer developing a site for a camping goods retailer that has level 1 categories of Tents, Clothes and Camping. Under Camping it had level 2 categories of Sleeping Bags, Tools, Cooking and Lights. Under Sleeping Bags it had level 3 categories of Mont, MacPac, Paddy Palin which were the companies that made sleeping bags. Under each of these brand names were listed their products.

The web developer 500 would create a web directory structure to mimic the category hierarchy:

eg. *web home*\paddypalin\camping\sleepingbags\mont. This directory structure will define the URL to each category and product ie. to list the sleeping bags at Paddy Palin the user will enter:

http://Internet Shopping Mall.com/paddypalin/camping/sleepingbags

In each of these directories held in the template database 116, would be the template (or pointer to the template) that defines how this category is to be displayed. In the case of the bottom most category then the template defines how the product is to be displayed.

The benefits of this approach are:

Meta's Exhibit 1022
Page 00194

- the web designer and retailer can easily define the hierarchy and of the site;
- the retailer can define different templates for categories at the same "level";
- the web designer can demonstrate a site to the retailer as it will be viewed in the Internet Shopping Mall (in their own environment or Internet Shopping Mall's);
- "hard coded" pages and hyperlinks (eg. help and about us pages) will still be resolved when placed in the Internet Shopping Mall environment (assuming relative addressing is used);
- no re-work is required to convert the site into the Internet Shopping Mall environment (assuming all guidelines are adhered to).

A detraction of this approach is the effort to construct and maintain a directory structure for retailers that have a large category hierarchy

Templates and dynamic data

Template files define the layout and style for presenting category or product information. A template file is an HTML file within the shop site that contains a Dynamic Data Stub (DDS).

A DDS is a placeholder that signals to the Internet Shopping Mall environment that content external to this page is to be inserted at this location (eg. from the CMS database 113, 114 or product database 111).

DDSs are supplied to web designers in the form of GIFs with guidelines on the syntax to be provided within the HTML to allow the Internet Shopping Mall environment to associate the GIF placeholder with the target data source.

The collection of DDS placeholders will be enhanced as web designers/retailers require differing interaction and presentation for their customers. Through plug-ins to popular web design environments (eg. Dreamweaver™), a DDS toolbox will allow the designer to quickly select and place the appropriate DDS placeholder prompting the designer for the DDS data source (if appropriate) and presentation requirements (eg. style, layout, colour etc.)

It is anticipated that the majority of templates will be a collection of HTML tables consisting of any number of DDS GIFs.

Site approval

When the retailer is satisfied with their site they will submit a request for Internet Shopping Mall to publish their site in the live mall. On internal approval to publish (copy) the site then the Internet Shopping Mall staff release the site in the live Internet Shopping Mall environment.

In essence, this act will copy the appropriate static HTML files and supporting images, and template lookup information from the SA pre-approval area to the live mall environment.

A "live" timestamp will be recorded for all site, category and static page activations.

Back Office Services

Content Management: The Content Management System (CMS) 101 is a service for both retailers and the Internet Shopping Mall to create and define content which is then dynamically 'plugged' into HTML pages prior to being sent to users. The CMS allows non-technical staff operating a client terminal 120 to quickly and easily create content for display in various parts of the retailer sites or Internet Shopping Mall precincts. The CMS is used to facilitate a dynamic and ever-changing content matrix to entice shoppers and encourage both purchases and repeat visits. It provides a single point of control to manage security issues relating to the introduction of content on the Internet Shopping Mall site.

The functions required to support the CMS are:

1. Authentication of retailer or Internet Shopping Mall staff member.
2. Create content either in HTML form, or allow the uploading of richer content objects (Flash files, images, sounds, QuickTime movies, etc).
3. Allow content to be time limited (e.g. only display from 1-Jan-00 to 2-Jan-00).
4. Allow content to be targeted to particular user profiles or triggered by events (e.g. viewing a particular product).

Just as retailer pages are populated with content from the products database 111 so too can they be populated with additional content from a content database 113, 114. The web developer may specify for example "top headline goes here" and the page builder will fetch the content from the content database 113, 114 and populate the HTML page with it. *Note* that the content can be from the retailer's private content database 113 or the mall

Meta's Exhibit 1022
Page 00196

operator's universal database 114. The mall operator may also have a content database for exclusive use in mall generated areas of the site.

Internet Shopping Mall Management Centre: The Internet Shopping Mall management centre allows Internet Shopping Mall to manage the centre and view key metrics. This function facilitates technical and non-technical Internet Shopping Mall staff managing all aspects of the Internet Shopping Mall site: content and promotions; preview and approval of shops and precincts; performance and merchandising metrics and billing. It also provides a single point of interface for centre management to facilitate security and auditing.

Most aspects of the operating of the Internet Shopping Mall site will be managed by business managers with no technical background. To best perform this role the ISMS management centre is organised around business functions, rather than reflect the underlying technology or architecture.

A major security threat comes from authorised staff members making unauthorised changes, or unauthorised staff members gaining any access at all. Most security compromises come from internal threats – therefore strong authentication, auditing and accountability are required to minimise risk.

1. The functions provided by the Internet Shopping Mall Management Centre interface are: Ability to preview and rebuild online shops and precincts.
2. Performance metrics for site, categories and shops and ability to generate reports.
3. Stock management tools to alter stock if needed.
4. Real-time monitoring of site traffic and sales by segment.
5. Promotions and direct marketing tools to manage campaigns.
6. Content management tools to manage other content requirements.
7. Order status information for all site orders.
8. Data mining centre to examine shopper, transaction and product information throughout the site and by category.
9. Billing information for the site.

Retailer Interface: The retailer interface consists of two parts: stock database integration (RES) and the Retailer Management Centre (RES Back Office).

Inventory and Product Database: This module provides integration of retailers existing stock and inventory control databases, or point of sales (POS) systems, to provide real-time or batch updates of Internet Shopping

Meta's Exhibit 1022
Page 00197

Mall's products database. This is provided using the RES, as described above.

E-commerce sites must present users with up to date stock information, including stock availability and expected shipping times if they are to add sufficient value to users to be worth using. This information must come from the retailer and must be updated as frequently as the data requires.

A major concern for a retailers operating on the Internet Shopping Mall site is cost, and a major goal of the project is to substantially reduce the cost of retailers wishing to operate online. Integration with existing systems allows retailers to leverage off existing investments in IT infrastructure and expertise and also ensures high quality data reaches the Internet Shopping Mall site.

The Inventory and Product Database enables accurate collection of retailers products data (including stock levels) for use on the Internet Shopping Mall site to facilitate high quality, accurate and up to date stock information for consumers. This function adds value to retailers by integrating with their POS, minimising the retailers' overhead in conducting e-commerce and reducing their costs.

The Inventory and Product Database provides the following functions:

1. Facilitate an integration at a level that the retailer is comfortable with.
2. Accommodate full range of available retailer information, minimising the amount of 'normalisation' that must occur to accommodate the retailers legacy systems.
3. Stock information must be updated either when (1) the retailer makes a sale and takes the stock from the same area that online sales are filled from; or (2) a sale occurs on the Internet Shopping Mall site.
4. Internet Shopping Mall stock records may be updated from multiple sources: e.g. retailer POS system, inventory control system, agency system.

Stock Management (RES Back Office): The stock management service allows retailers to update and manage their stock levels in their Internet Shopping Mall internet shops.

E-commerce sites must present users with up to date stock information, including stock availability and expected shipping times if they are to add sufficient value to users to be worth using. This information must

Meta's Exhibit 1022
Page 00198

come from the retailer and must be updated as frequently as the data requires.

By allowing integration with existing systems the stock management service again allows retailers to leverage off existing investments in IT infrastructure and expertise and also ensures high quality data reaches the Internet Shopping Mall site.

The stock management service provides a facility for retailers to create, edit and delete SKUs and fill-in gaps in their product profiles and information. Information includes stock levels, with notification of when stock falls below the alert level.

The stock management service also provides a stock and inventory management system for those retailers lacking a sufficiently sophisticated POS system.

The stock management service provides the following functions to the retailer:

1. Ability to add / remove and edit product content.
2. Access to stock level history over recent period.
3. Email-based notification of low-stock levels.
4. Ability to define profiles for products matching shopper and event profiles.
5. The typical operation of the stock management service is as follows:
6. Retailers log on to the RMC and access the Stock Management screen. The screen lists all categories and SKUs and allows retailers to create, edit or delete SKUs.
7. Retailers can view stock whose stock level has fallen below the alert level, sort stock by sales volume or other criteria.
8. Retailers can upload new content, such as product images, or edit any part of the stock information.

It will be appreciated by persons skilled in the art that numerous variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive.

CLAIMS:

1. A method of building a web page on a first internet site operated by a first computer system where the page is an amalgamation of elements from at least two sources including a first and second source where the elements from the first source comprise elements common to a plurality of pages on the first internet site and the second source is a second computer system operating a second independent internet site, the page being defined by template components which specify format and data items defining detail in respective page elements, the method comprising the steps of:

a) when the page is requested by a user accessing the first internet site, obtaining a page-template component supplied from a template storage means on the first computer system, the first page-template component defining locations on the page for placement of data items from a first items database associated with the first internet site;

b) combining the first page-template component with a second page-template component supplied from a template component storage means on the second computer system, the second page-template component defining locations on the page for placement of data items from a second items database associated with the second internet site;

c) obtaining first data items associated with the first page-template component from the first database and inserting the first data items into the page at the locations defined by the first page-template component;

d) obtaining second data items associated with the second page-template component from the second database and inserting the second data items into the page at the locations defined by the second page-template component; and

e) providing the page to the user.

2. The method as claimed in claim 1, wherein cache means are provided in the first computer system whereby, for pages that are requested often by users, the second page-template component is temporarily stored in the cache means, the second page-template component being retrieved from the cache if it is currently held in the cache and otherwise being retrieved from the template storage means in the second computer system.

3. The method as claimed in claim 2, wherein the cache means is a pre-emptive cache whereby the pages are pre-fetched and periodically updated in anticipation of users requesting them.

Meta's Exhibit 1022
Page 00200

4. The method as claimed in claim 2, wherein the second page-template component is temporarily stored in the cache means when the page is requested for a first time and is flushed from the cache if the page is not requested again within a period of time determined by the first computer system.

5. The method of Claim 1, 2, 3 or 4, wherein the second database is located locally to the first computer system and is a copy of a third database held remotely of the first computer system, the second database being updated intermittently to reflect data changes that have occurred on the third data base.

6. The method of Claim 1, 2, 3, 4 or 5, wherein the second page-template component comprises a page template of the second internet site.

7. The method of Claim 6, wherein the first page-template component, when combined with the second page-template component forms a border along a side of an information carrying portion of the second page-template component and the second page-template component is resized if necessary to produce a page that fits within a page dimension specification of the first internet site.

8. The method as claimed in any one of the preceding claims, wherein the first page-template component defines layout of a first page component, and content relevant to the first page-template component is defined by a first content database, which is separate from the first items database, the content of the first content database comprising at least one display element and the data items of the first items database providing details of the display elements provided from the first content database.

9. The method as claimed in any one of the preceding claims, wherein the second page-template component defines a layout of a second page component, and content relevant to the second page component is defined by a second content database separate from the second items database, the content of the second content database comprising at least one display element and the data items of the second database providing details of the display elements provided from the second content database.

10. The method as claimed in any one of claims 1 to 7, wherein each of the page-template components define layout and content of a respective component of a page, the content comprising at least one display element and the data items of the first and second databases provide details of the

Meta's Exhibit 1022
Page 00201

display elements for the first and second page-template components respectively.

11. The method as claimed in any one of claims 1 to 7, wherein each of the page-template components define only layout of a respective component of a page and the first and second items databases provide content items for each respective page component and data items for each respective content item.

12. A method of building a web page on an internet site where the page is an amalgamation of page defining elements including at least two template elements defining page format of respective page components of the web page and data items defining detail in respective page elements, the method comprising the steps of:

a) when the page is requested by a user accessing the internet site, obtaining a page-template component supplied from a template storage means, the first page-template component defining locations on the page for placement of data items from a first items database associated with the internet site;

b) combining the first page-template component with a second page-template component supplied from a template component storage means, the second page-template component defining locations on the page for placement of data items from a second items database associated with an information provider other than the internet site;

c) obtaining first data items associated with the first page-template component from the first database and inserting the first data items into the page at the locations defined by the first page-template component;

d) obtaining second data items associated with the second page-template component from the second database and inserting the second data items into the page at the locations defined by the second page-template component; and

e) providing the page to the user.

13. The method as claimed in claim 12, wherein cache means are provided at the internet site whereby, for pages that are requested often by users, the second page-template component is temporarily stored in the cache means, the second page-template component being retrieved from the cache if it is currently held in the cache and otherwise being retrieved from the template storage means in the second computer system.

Meta's Exhibit 1022
Page 00202

14. The method as claimed in claim 13, wherein the cache means is a pre-emptive cache whereby the page templates are pre-fetched and periodically updated in anticipation of users requesting them.

15. The method as claimed in claim 13, wherein the second page-template component is temporarily stored in the cache means when the page is requested for a first time and is flushed from the cache if the page is not requested again within a period of time determined by the first computer system.

16. The method of Claim 12, 13, 14, or 15, wherein the second database is located locally to the first computer system and is a copy of a third database held remotely of the first computer system, the second database being updated intermittently to reflect data changes that have occurred on the third data base.

17. The method of claim 12, 13,14, 15 or 16, wherein the first page-template component, when combined with the second page-template component forms a border along a side of an information carrying portion of the second page-template component and the second page-template component is resized if necessary to produce a page that fits within a page dimension specification of the first internet site.

18. The method of claim 17, wherein the first page-template component defines layout of a first page component, and content relevant to the first page-template component is defined by a first content database, which is separate from the first items database, the content of the first content database which is separate from the first items database, comprising at least one display element and the data items of the first items database providing details of the display elements provided from the first content database.

19. The method as claimed in any one of claims 12 to 18, wherein the second page-template component defines a layout of a second page component, and content relevant to the second page component is defined by a second content database separate from the second items database, the content of the second content database comprising at least one display element and the data items of the second database providing details of the display elements provided from the second content database.

20. The method as claimed in any one of claims 12 to 19, wherein each of the page-template components define layout and content of a respective component of a page, the content comprising at least one display element

Meta's Exhibit 1022
Page 00203

and the data items of the first and second databases provide details of the display elements for the first and second page-template components respectively.

21. The method as claimed in any one of claims 12 to 20, wherein each of the page-template components define only layout of a respective component of a page and the first and second items databases provide content items for each respective page component and data items for each respective content item.

22. A telecommunication signal representing an internet web page image generated by a web site and comprising an amalgamation of at least two page components, the amalgamated page image being produced by the web site from a first page-template component and a second page-template component, the page-template components each defining locations on the page for placement of data items from respective databases associated with each template component.

23. The signal of claim 22, wherein:

a) the first page-template component is supplied from a template storage means, the first page-template component defining locations on the page for placement of data items from a first items database;

b) the second page-template component is supplied from a template component storage means, the second page-template component defining locations on the page for placement of data items from a second items database;

c) the first data items associated with the first page-template component are obtained from the first database and one inserted into the page at the locations defined by the first page-template component;

d) the second data items associated with the second page-template component are obtained from the second database and are inserted into the page at the locations defined by the second page-template component.

24. The signal as claimed in claim 22, or 23 wherein cache means are provided at the web site whereby, for pages that are requested often by users, the second page-template component is temporarily stored in the cache means, the second page-template component being retrieved from the cache if it is currently held in the cache and otherwise being retrieved from the template storage means in the second computer system.

Meta's Exhibit 1022
Page 00204

25. The signal as claimed in claim 24, wherein the cache means is a pre-emptive cache whereby the page templates are pre-fetched and periodically updated in anticipation of users requesting them.

26. The signal as claimed in claim 24, wherein the second page-template component is temporarily stored in the cache means when the page is requested for a first time and is flushed from the cache if the page is not requested again within a period of time determined by the first computer system.

27. The signal as claimed in claim 23, 24, 25 or 26, wherein the first page-template component is held locally to the web site and the second page-template component is held on a computer system remote from the web site.

28. The signal remote computer system as claimed in claim 23, 24, 25, 26, or 27, wherein the second database is located locally to the first computer system and is a copy of a third database held remotely of the first computer system, the second database being updated intermittently to reflect data changes that have occurred on the third data base.

29. The signal as claimed in any one of claims 23 to 28, wherein the second page-template component comprises a page template of a second internet site.

30. The signal as claimed in any one of claims 23 to 29, wherein the first page-template component, when combined with the second page-template component forms a border along a side of an information carrying portion of the second page-template component and the second page-template component is resized if necessary to produce a page that fits within a page dimension specification of the first web site.

31. The signal as claimed in any one of claims 23 to 30, wherein the first page-template component defines layout of a first page component, and content relevant to the first page-template component is defined by a first content database, which is separate from the first items database, the content of the first content database comprising at least one display element and the data items of the first items database providing details of the display elements provided from the first content database.

32. The signal as claimed in any one of claims 23 to 31, wherein the second page-template component defines a layout of a second page component, and content relevant to the second page component is defined by a second content database separate from the second items database, the

Meta's Exhibit 1022
Page 00205

content of the second content database comprising at least one display element and the data items of the second database providing details of the display elements provided from the second content database.

33. The signal as claimed in any one of claims 23 to 32, wherein each of the page-template components define layout and content of a respective component of a page, the content comprising at least one display element and the data items of the first and second databases provide details of the display elements for the first and second page-template components respectively.

34. A method for seamless integration of resident and third party internet sites into a portal shopping site, while maintaining the integrity of the third party sites, and providing access to shopper service functions aggregated across and accessible from the resident and third party internet sites, wherein a new shop site is integrated into the portal shopping site by the steps of:

a) amending a Shop Site Data Schema to reference retailer data relevant to the new shop site;

b) providing Shop Site HTML Pages for the new shop site;

c) positioning aggregated function tags in the Shop Site HTML pages to indicate the locations of portal shopping site functions to be included on the new shop site pages, the portal shopping site shopping site functions comprising aggregated shopper service functions and data linking functions which enable the specification of data identification means to link the retailer data to page elements of the new shop site pages;

d) when one of the new shop site pages is requested by a site visitor via an internet browser, fetching the Shop Site HTML pages from a page store using an Aggregated Shop Build Engine, parsing the Shop Site HTML pages to interpret the aggregated function tags, executing code from a code base to insert the respective portal shopping site functions associated with the aggregated function tags into the page, whereby data relevant to each aggregated function tag is fetched from the data store, the Shop Site HTML pages are modified to substitute the fetched data for the relevant aggregated function tags , and the modified page is returned to the browser for display to the site visitor.

35. The method of claim 34 wherein the data linking functions provide links to data required for variable display elements of the respective page.

Meta's Exhibit 1022
Page 00206

36. The method of claim 35 wherein the data required for variable display elements of the respective page comprises stock data from a stock database.

37. The method of claim 35 or 36 wherein the data required for variable display elements of the respective page comprises image data from an image database.

38. The method as claimed in any one of claims 34 to 37 wherein the aggregated shopper service functions comprise a plurality of functions each of which provides a link to at least one non-retailer page of the portal shopping site or at least one shopper service function.

39. The method as claimed in 38 wherein the aggregated shopper service functions include a shopping cart function whereby a site visitor may gather one or more products intended to be purchased.

40. The method as claimed in 38 wherein the aggregated shopper service functions include a checkout function whereby a site visitor may complete a purchase transaction in respect of any one or more products they wish to purchase.

41. The method as claimed in 38 wherein the aggregated shopper service functions include an order tracking function whereby a site visitor may obtain a status of a delivery in respect of a purchase transaction previously completed.

42. The method as claimed in 38 wherein the aggregated shopper service functions include a wish list function whereby a site visitor may record one or more products that they would like to purchase or receive as gifts in the future.

43. The method as claimed in 38 wherein the aggregated shopper service functions include a wish gift registry whereby a site visitor who is an intended recipient of gifts at a planned celebration may record one or more products that they would like to receive as a gift in respect of the planned celebration, and a site visitor wishing to give a gift to the intended recipient may select a product from the products recorded by the intended recipient, purchase the product and have the purchased product delivered to the intended recipient.

44. The method as claimed in 38 wherein the aggregated shopper service functions include a gift finder function whereby a site visitor may use a recommendation engine to recommend one or more products available via

Meta's Exhibit 1022
Page 00207

one of the shop sites of the portal shopping site for selection as a gift for another person.

45. The method as claimed in 38 wherein the aggregated shopper service functions include a personal shopper function whereby a site visitor may use a recommendation engine to recommend one or more products available via one of the shop sites of the portal shopping site to assist the site visitor in choosing a product for purchase for their own use.

46. The method as claimed in 38 wherein the aggregated shopper service functions include a Shop Together function whereby a site visitor may communicate with another site visitor while browsing the portal shopping site and its included integrated shop sites.

47. The method as claimed in 38 wherein the aggregated shopper service functions include a Jump to shop function whereby a list of shop sites on the portal shopping site are provided to the site visitor and the site visitor may jump to a shop site by selecting the shop site from the list.

48. The method as claimed in 38 wherein the aggregated shopper service functions include a shop finder function whereby a an address of a physical shop of a retailer represented by a shop site on the portal shopping site is provided to the site visitor.

49. The method as claimed in 48 wherein the shop finder function accepts a physical address from the site visitor and provides an address of a physical shop of the retailer which is the closest physical shop of the retailer to the physical address provided by the site visitor.

50. The method as claimed in 38 wherein the aggregated shopper service functions include a dressing room function whereby a site visitor may view and compare products comprising clothing, foot ware jewellery or accessory items being considered for purchase.

51. The method as claimed in 38 wherein the aggregated shopper service functions include a gift wrapping service function whereby a site visitor may request a product being purchased be gift wrapped prior to delivery.

52. The method as claimed in 51 wherein the gift wrapping service function offers to the site visitor a range of gift wrapping styles and options for the wrapping of the product.

53. The method as claimed in 38 wherein the a power bar comprising a panel displaying portal shopping site information is appended to the Shop Site IITML page when building the modified page which is returned to the

Meta's Exhibit 1022
Page 00208

browser and at least a subset of the aggregated shopper service functions are provided within the power bar.

54. The method as claimed in any one of claims 34 to 53 wherein the new shop site is a resident shop site and the aggregated function tags reference function data and retailer specific data held within databases resident on the computer systems hosting the portal shopping site.

55. The method as claimed in any one of claims 34 to 53 wherein the new shop site is an integrated shop site and the aggregated function tags reference function data held within databases resident on the computer systems hosting the portal shopping site and retailer specific data held in databases resident on a site of the respective retailer remote from the computer systems hosting the portal shopping site.

56. The method of claim 55 wherein the aggregated function tags are Linked Site Meta Language components which specify retailer specific data and a network address of a server on which the data is resident and to allow recognition and interpretation of page elements of the third party site by the aggregated shop build engine.

57. The method of claim 55 or 56 further including the step of creating a Shop Site Definition File which maps site-specific features of a third party site to functionally equivalent features within the Portal Shopping Site.

58. The method of claim 55 or 56 further including the step of marking up a page of a third party site with tags which indicate locations of site-specific features of the third party site and map the respective features to functionally equivalent features within the Portal Shopping Site.

59. The method of claim 55, 56, 57, or 58 wherein the Aggregated Shop Build Engine uses a proxy module to fetch target web pages dynamically from an existing third party shop site.

Meta's Exhibit 1022
Page 00209

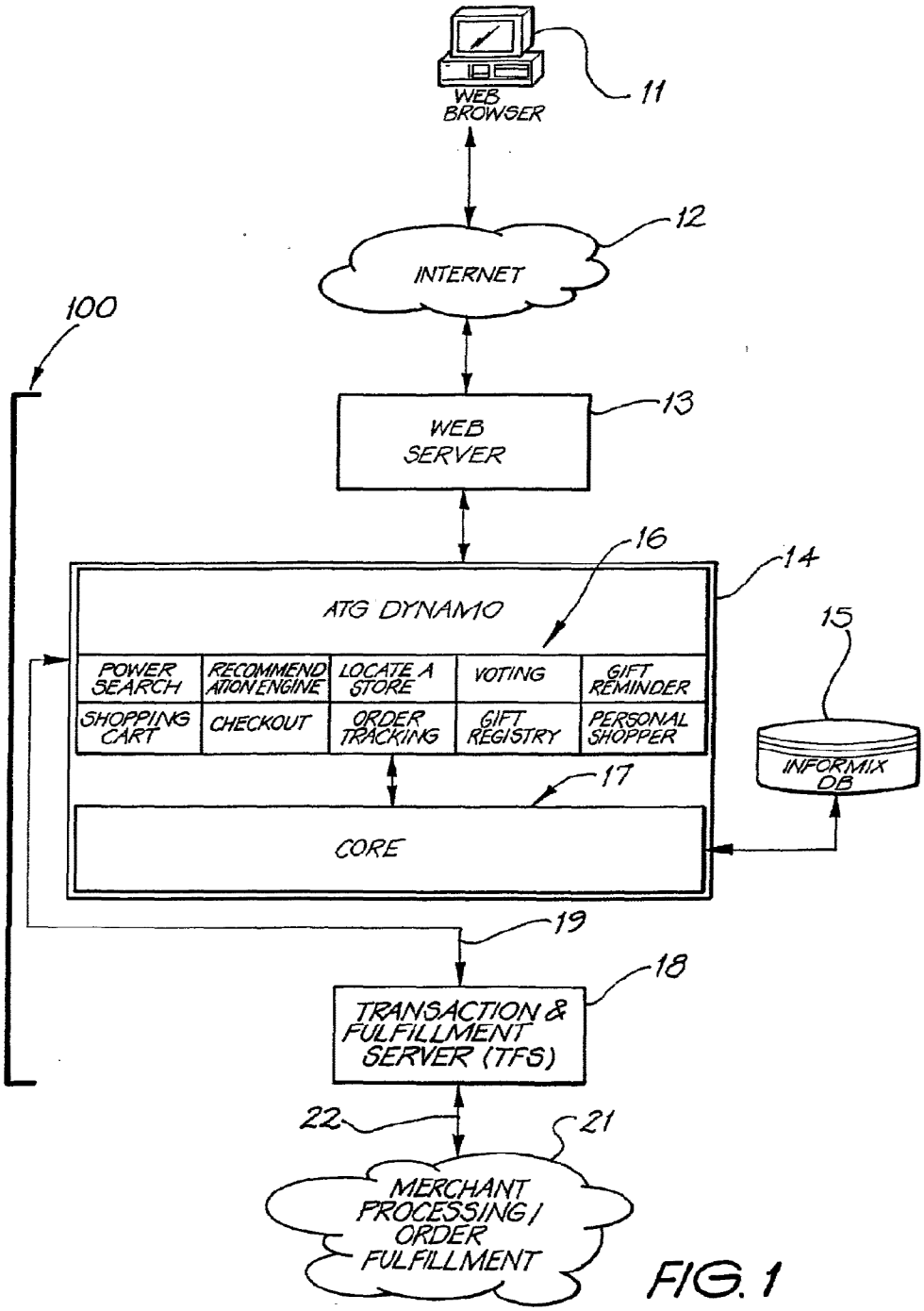


FIG. 1

Meta's Exhibit 1022
Page 00210

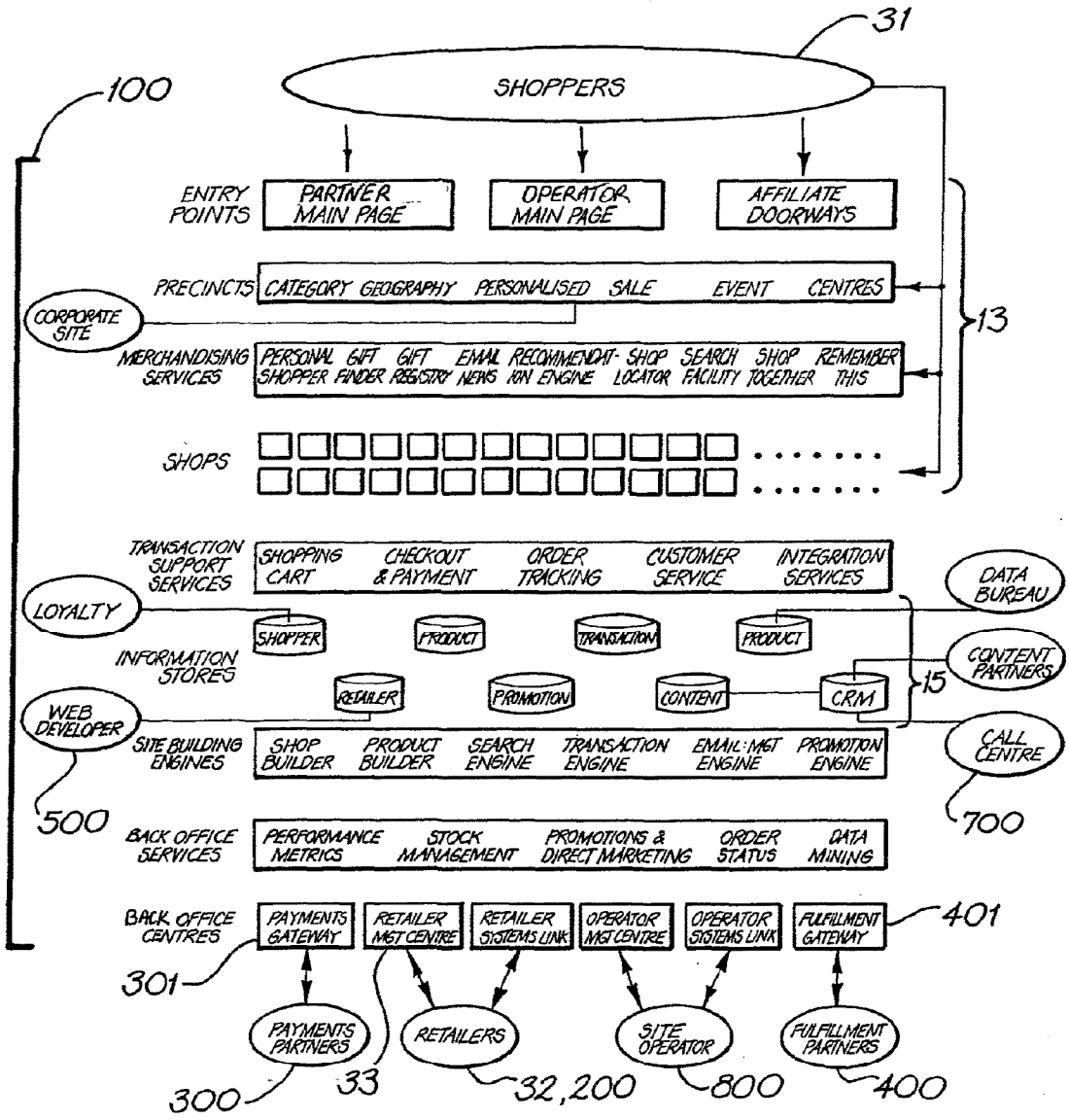


FIG. 2

Meta's Exhibit 1022
Page 00211

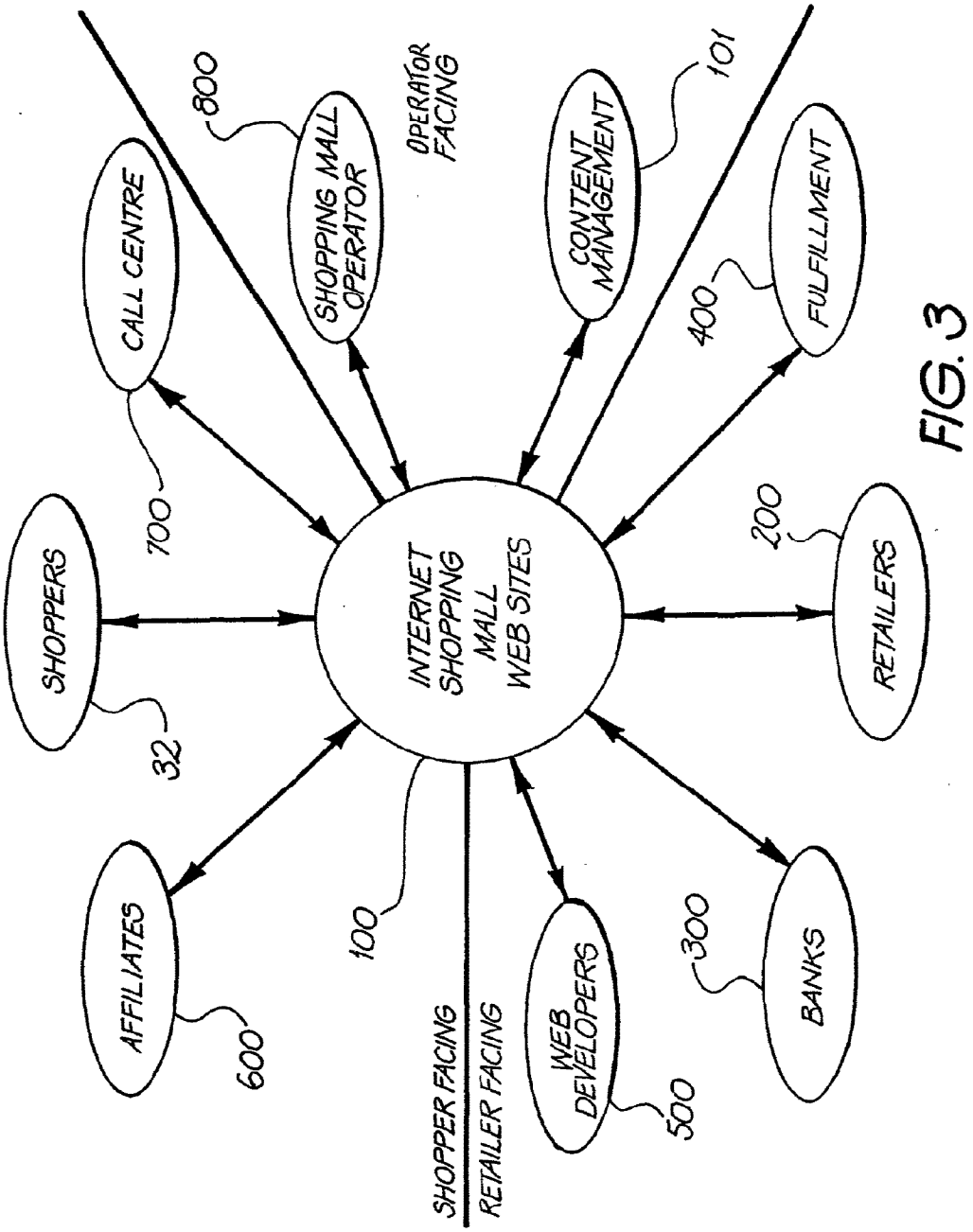


FIG. 3

Meta's Exhibit 1022
Page 00212

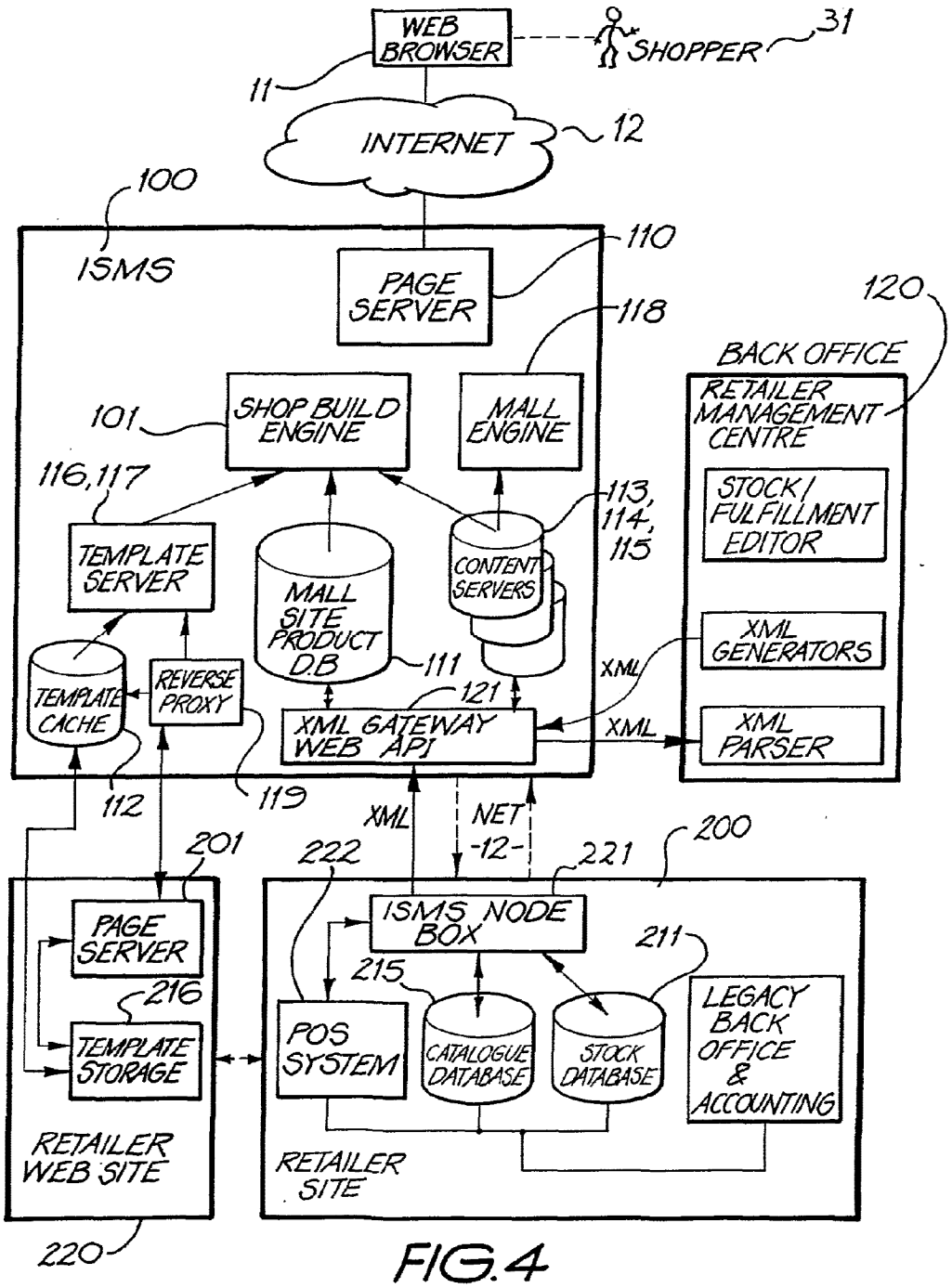


FIG.4

Meta's Exhibit 1022
Page 00213

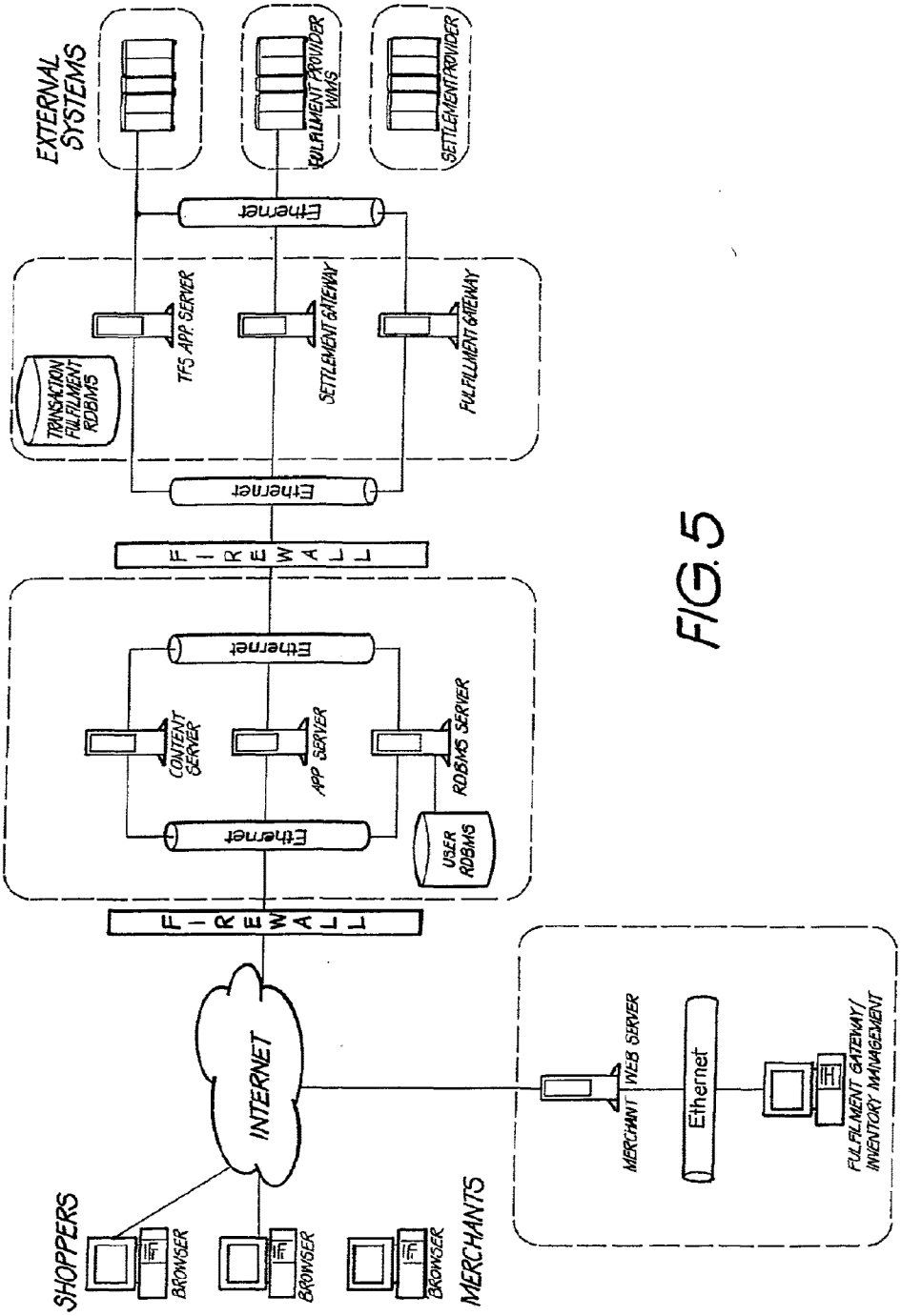


FIG. 5

Meta's Exhibit 1022
Page 00214

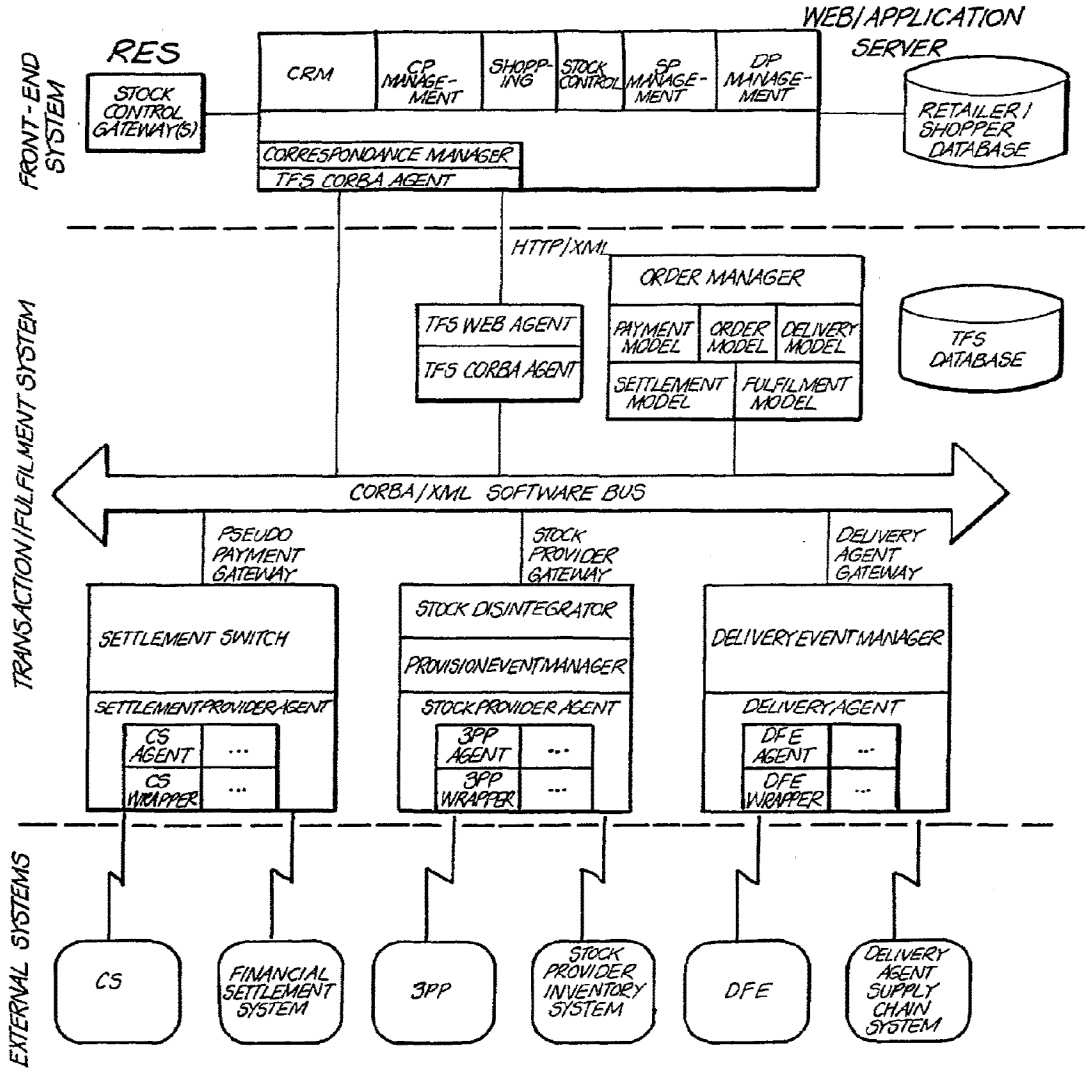


FIG. 6

Meta's Exhibit 1022
Page 00215

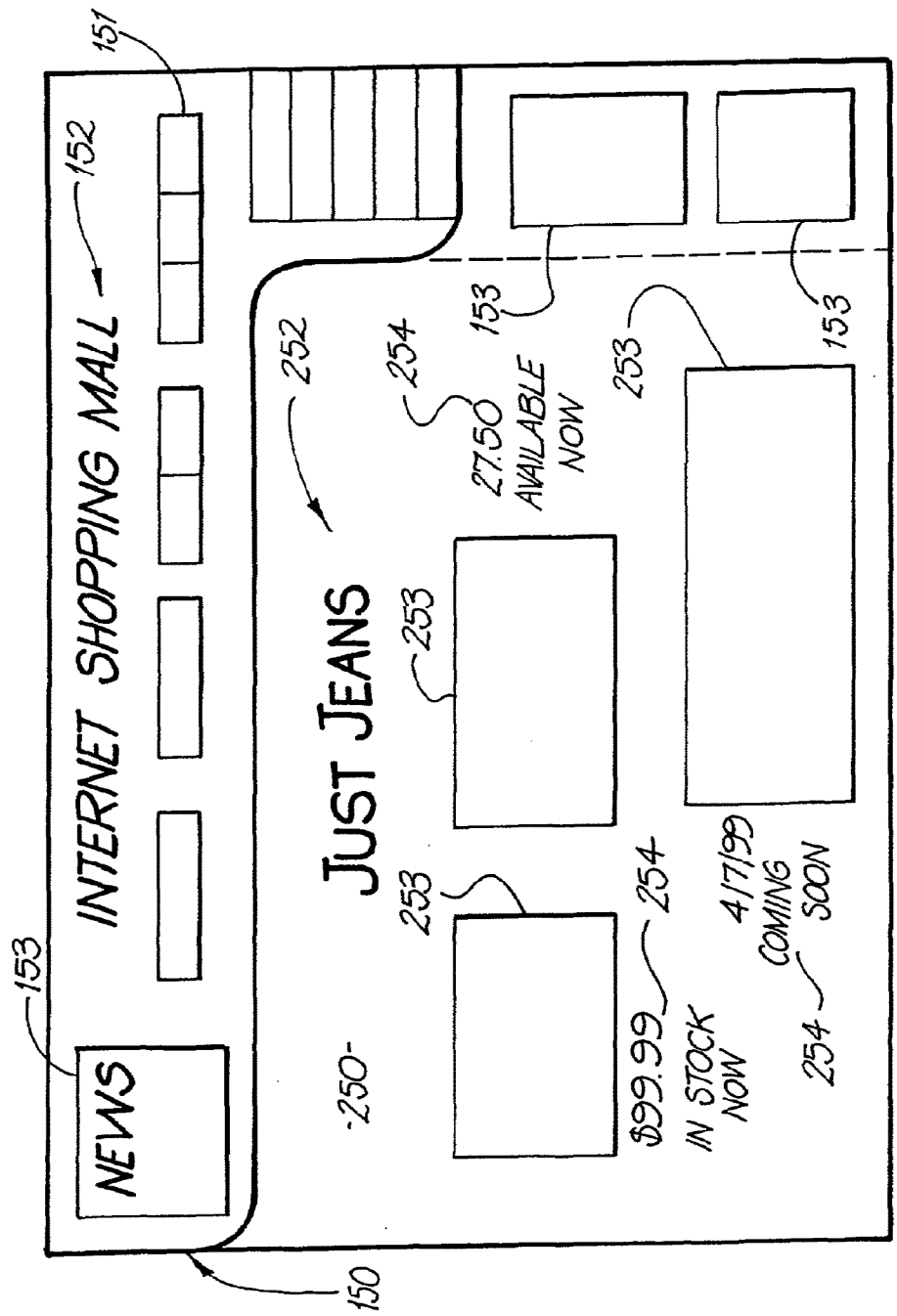


FIG. 7

Meta's Exhibit 1022
Page 00216

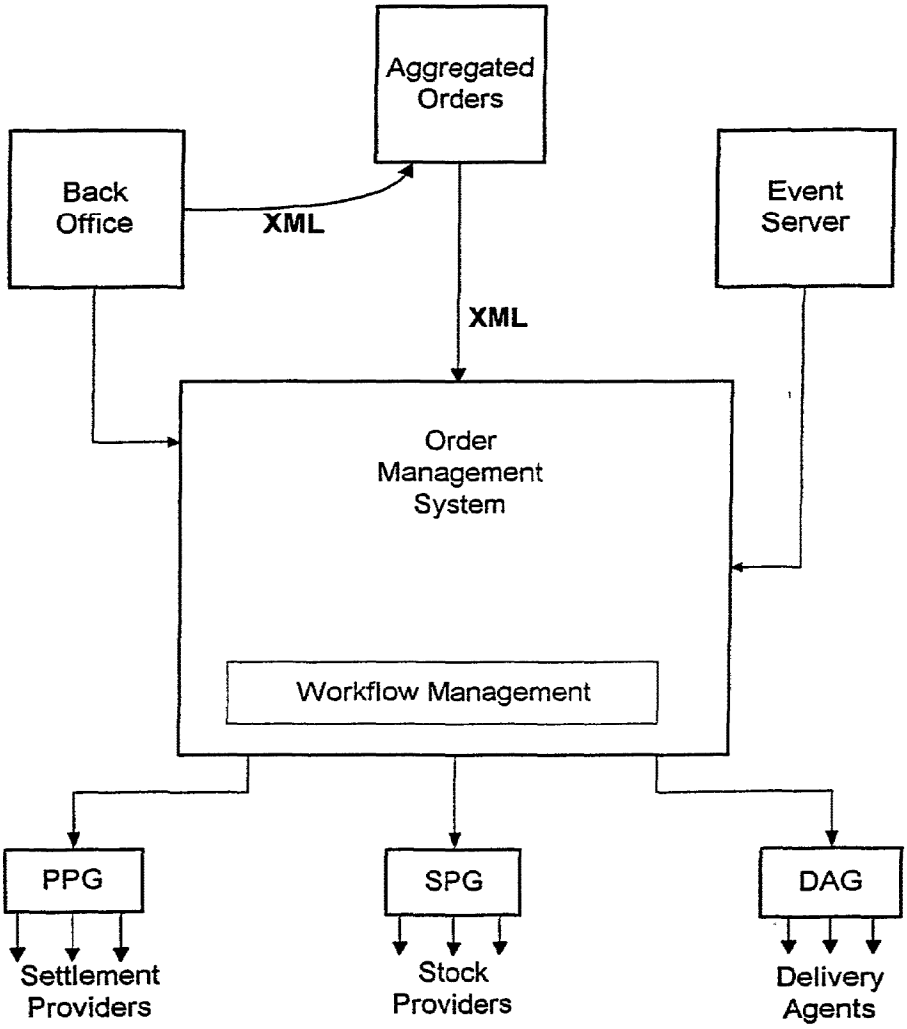


FIG. 8

Meta's Exhibit 1022
Page 00217

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU01/00774

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. [7]: G06F 17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC: G06F, H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WPAT, USPTO.
Example keywords: web/internet/online/network, template, page/site, mall/shop/commerc/purchas

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	WO 00/70511 (KCS Australia Pty. Ltd.) 23 November 2000.	1-61
P, A	WO 00/57314 (Atomicweb) 28 September 2000.	1-61
A	US 6026433 (D'Arlach et al.) 15 February 2000.	1-61
A	US 5897622 (Blinn et al.) 27 April 1999.	1-61
A	GB 2324896 (Mitel Corporation) 4 November 1998.	1-61

☐ Further documents are listed in the continuation of Box C ☒ See patent family annex

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 September 2001	21 SEPTEMBER 2001
Name and mailing address of the ISA/AU	Authorized officer
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	SEAN APPLEGATE Telephone No : (02) 6283 2207

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/AU01/00774

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	200070511	AU	200045250		
WO	200057314	AU	200039188		
US	6026433	NONE			
US	5897622	NONE			
GB	2324896	CA	2231980	US	5940834

END OF ANNEX

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
26 April 2001 (26.04.2001)

PCT

(10) International Publication Number
WO 01/29573 A2

(51) International Patent Classification[7]: G01S

(21) International Application Number: PCT/US00/27270

(22) International Filing Date: 4 October 2000 (04.10.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/160,326 19 October 1999 (19.10.1999) US

(71) Applicant *(for all designated States except US)*: AMERICAN CALCAR INC. [US/US]; Suite 105, 3511 Silverside Road, Wilmington, DE 19810 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **OBRADOVICH, Michael, L.** [US/US]; 1904 Aveneda Salvador, San Clemente, CA 92672 (US). **PIRTLE, John, D.** [US/US]; 29262 Hazelbell, Silverado, CA 92676 (US). **SCHEBESCH, Steven, W.** [US/US]; 23411 Summerfield #42J, Aliso Viejo, CA 92656 (US).

(74) Agent: YIP, Alex, L.; Kaye, Scholer, Fierman, Hays & Handler, LLP, 425 Park Avenue, New York, NY 10022 (US).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

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

Published:
— *Without international search report and to be republished upon receipt of that report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 01/29573 A2

(54) Title: TECHNIQUE FOR EFFECTIVE NAVIGATION BASED ON USER PREFERENCES

(57) Abstract: In a navigation device in accordance with the invention, user profiles may be stored and used to navigate a user who may be driving in a vehicle, on foot, or in other mode of transportation. Each user profile corresponds to one of the user's personae. For example, the user business profile corresponding to the user's business persona may be different from the user personal profile corresponding to the user's personal persona. For instance, the user business profile may include fine dining type restaurants for business meetings while the user personal profile may instead include fast-food type restaurants for personal dining. The inventive navigation device provides the user with a navigated route, together with information concerning the favorite facilities and events surrounding the navigated route, which satisfy the preferences in a selected user profile. In accordance with an aspect of the invention, blockages may also be established using the device to avoid selected areas, e.g., high crime areas, in the navigated route, or to block transmission of selected information concerning, e.g., uninteresting facilities and events, to the inventive navigation device.

RPX CORPORATION - IPR2018-01132, Ex. 1021, p. 1 of 45

Description

TECHNIQUE FOR EFFECTIVE NAVIGATION BASED ON USER PREFERENCES

Field of the Invention

The invention relates to a navigation technique, and more particularly to a technique for navigation subject to user preferences.

Background of the Invention

Recently, navigation systems based on global positioning system (GPS) technology were developed for use in an automobile. Such navigation systems are capable of receiving signals from a constellation of satellites which is part of the GPS. Based on the received signals, one such navigation system identifies the automobile's location, e.g., in latitude and longitude. The navigation system also detects the automobile's speed and direction. With geographic information stored in an on-board computer in the automobile, the navigation system is capable of audio-visually communicating to a user instructions for reaching a given destination.

Similarly, a GPS navigation device in hand-held form enables a user carrying the device to monitor his/her planned route leading to a given destination. Nowadays, in general, hand-held devices for information organization and communications are popular and have been proliferating. For example, use of cellular phones for communications is ubiquitous. Use of personal data assistants (PDAs), e.g., PALM type hand-held devices, is equally ubiquitous for organizing personal information including meeting schedules, telephone listing, address information, etc. More recently, hand-held communicators emerged which have cellular communication and modem facilities integrated into a PDA, thereby enabling a user

to communicate data in a wireless manner, e.g., to send and receive email, and to upload and download information from websites via the Internet.

Summary of the Invention

Traditionally, a navigation device, e.g., a GPS navigation system used in an automobile, provides a user with directions to a given destination. The navigation typically provides the shortest navigated route in terms of distance to the given destination. However, we have expanded the concept of the traditional navigation to broadly include providing a navigated route subject to user preferences, together with information concerning facilities and events surrounding the navigated route for the user's convenience. The navigated route is selected to satisfy a trip's purpose. Such a trip's purpose may be (1) to reach a given destination as in prior art, and/or (2) to perform certain tasks enroute or at the destination, which may include purchasing business supplies, shopping for gifts, dining, obtaining entertainments, etc. To realize (2), the navigator arrangement in accordance with the invention allows for storage of user profiles including user preferences such as preferred types of restaurants, shops, entertainments, etc.

In accordance with an aspect of the invention, each user profile corresponds to one of the user's personae. For example, the user business profile corresponding to the user's business persona may be different from the user personal profile corresponding to his/her personal persona. For instance, the user business profile may include fine-dining type restaurants for business meetings while the user personal profile may instead include fast-food type restaurants for personal dining. Thus, the navigator arrangement in accordance

with the invention provides a navigated route, together with information concerning the favorite facilities and events surrounding the navigated route, which satisfy the preferences in a selected user profile.

In accordance with another aspect of the invention, the user can adopt a second person's profile for a trip's purpose particular to that second person, thereby temporarily assuming the second person's persona to achieve such a trip's purpose.

In accordance with yet another aspect of the invention, the actual navigated route selected by the inventive navigator arrangement may depend on the mode of transportation specified by the user. For example, driving and walking are two different modes of transportation. The selected route for driving may be very different from that for walking, even though they may accomplish the same trip's purpose. The routes from which the inventive navigator arrangement selects for driving have to be passable by an automobile, which exclude, e.g., foot bridges, and walk paths through buildings, parks, fields, forests, etc. On the other hand, the routes from which the inventive navigator arrangement selects for walking have to be safe to pedestrians, which exclude, e.g., highways, freeways, etc.

In accordance with still yet another aspect of the invention, the actual route selected by the inventive navigator arrangement may also depend on external conditions, e.g., traffic, weather and road conditions. Thus, based on the information concerning such external conditions received from, say, a server via the Internet, the inventive navigator arrangement selects the most time-efficient route, e.g., one that requires the least travel time, to accomplish the trip's purpose despite any adverse traffic, weather and road conditions.

In accordance with a further aspect of the invention, a user may prescribe one or more roadblocks specifying certain prohibited areas or paths from which the route selected by the inventive navigator arrangement deviates. For example, it may be sensible to place roadblocks around high crime areas especially when the user is new in town and unfamiliar with those areas. A roadblock may be permanent or temporary. For example, a temporary roadblock may be placed on certain streets where a parade is held which lasts for several hours. Similar to a roadblock, a blockade may be imposed to block transmission of certain information to the inventive navigator arrangement which concerns, e.g., uninteresting facilities or events.

Brief Description of the Drawing

Further aspects, features and advantages of the invention will become apparent from the following detailed description taken in conjunction with the accompanying drawing showing an illustrative embodiment of the invention, in which:

Fig. 1 is a block diagram of a navigator arrangement in accordance with the invention;

Fig. 2 illustrates a registration page shown on a display in the arrangement of Fig. 1;

Fig. 3 illustrates a profile setting page shown on the display;

Fig. 4 illustrates the format of a user record stored in a memory of the arrangement of Fig. 1;

Fig. 5 illustrates a setup where the arrangement of Fig. 1 communicates with a remote server through a communications network;

Fig. 6 illustrates a personal favorite list shown on the display;

Fig. 7 illustrates preset profiles shown on the

display;

Fig. 8 illustrates a navigation page shown on the display;

Fig. 9 illustrates a directions page shown on the display;

Fig. 10 is a flow chart depicting a navigation process based on certain information in the record of Fig. 4;

Fig. 11 illustrates a map viewer page shown on the display;

Fig. 12 illustrates a restaurant page shown on the display;

Fig. 13 illustrates a restaurant menu page shown on the display; and

Fig. 14 illustrates an inquiry page where a user is presented a choice of blockades in accordance with the invention.

Detailed Description

Fig. 1 illustrates navigator arrangement 100 embodying the principles of the invention for navigation subject to user preferences. Navigator arrangement 100 in this instance is realized as a hand-held device, which may be "docked" or connected to another device or system to enhance its functionality, which may include a terminal, workstation, computer system, or an automobile system described, e.g., in U.S. Patent No. 6,009,355 issued to Obradovich et al. on December 28, 1999.

As shown in Fig. 1, navigator arrangement 100 includes processor 103, memory 108, display driver 111, display 113, user interface 115, external interfaces 117, GPS receiver 119, communication unit 120. Memory 108 is used to store software and data for processor 103 to carry out various operations of arrangement 100. In this instance, the stored software includes a navigator

browser similar to the well known NETSCAPE NAVIGATOR or MICROSOFT INTERNET EXPLORER web browser for browsing information provided, e.g., by servers connected to the Internet. In particular, the navigator browser works compatibly with the standard hypertext transfer protocol (HTTP), hypertext markup language (HTML), virtual reality markup language (VRML), graphics interchange format (GIF), JAVA applets, etc.

Display 113 may include a conventional liquid crystal display (LCD). Through display driver 111, processor 103 controls the display of text and graphics on display 113 in a predetermined format. User interface 115 may comprise conventional audio circuitry including a microphone and speaker for the user to communicate with arrangement 100 via audio media. User interface 115 may also comprise an indicator device, e.g., a mouse, touchpad, roller ball, or a combination thereof, which enables a user to move a cursor on display 113 and to, e.g., point and click at a displayed option or an icon to select same. In addition, interface 115 may incorporate well-known touch-screen circuitry (not shown). With this circuitry, the user can interact with processor 103, e.g., using a finger or a stylus to touch the surface of display 113 which is tactile-sensitive. Processor 103 receives from the touch screen circuitry a signal identifying the location on display 113 where it has been touched. If such a location matches the predetermined location of one of displayed options or icons, processor 103 determines that the option or icon has been selected. Otherwise, a cursor is placed at the touched location on display 113, prompting for an input from the user.

The user input may be realized using a virtual keyboard shown on display 113 also provided by the touch-screen circuitry. In a well known manner, characters are input by touching the corresponding keys on the virtual

keyboard. Alternatively, processor 103 may be programmed to recognize handwritten characters, and may receive through the touch-screen circuitry images of characters drawn by the user on display 113. Any recognized characters corresponding to the drawn images then become the user input. Still alternatively, through one of external interfaces 117, arrangement 100 can be connected to a keyboard device or a personal computer (PC) having a keyboard for user input.

However, we have recognized that the traditional ways of inputting data to a hand-held device are inefficient. For example, user input by drawn images of characters is often susceptible to inaccurate character recognition by the device, thus requiring repeated input of the same characters, which is frustrating. Limited by the size of a display in a hand-held device, a virtual keyboard does not afford much room to each character key thereon. As a result, data entry using the virtual keyboard is also error prone. Inputting data to a hand-held device using a physical keyboard connected thereto is undesirable because of the bulkiness of the keyboard, which defeats the purpose of having the hand-held device for its easy transportability in the first place.

However, navigator arrangement 100 is designed pursuant to an object to minimize data entry by the user. To the extent possible, databases in arrangement 100 are pre-populated with data, which the user may edit to satisfy his/her needs. In addition, arrangement 100 allows for downloading of data from a remote source to supplement and update the databases in arrangement 100, and to provide thereto just-in-time information, including, e.g., latest traffic, weather, map and other information. To that end, transceiver 121 in communication unit 120 includes, e.g., cellular telephone

circuitry for transmitting and receiving information via a wireless communications network, e.g., the well known advanced mobile phone service (AMPS) network, digital AMPS network, personal communications service (PCS) network, global system for mobile communications (GSM) network, etc. Modem 123 is used for modulating and demodulating carriers carrying the information through data channels, e.g., cellular digital packet data (CDPD) channels, in the wireless communications network.

Traditionally, a navigation device, e.g., a GPS navigation system used in an automobile, provides a user with directions to a given destination. The navigation typically provides the shortest navigated route in terms of distance to the given destination. However, we have expanded the concept of the traditional navigation to broadly include providing a navigated route subject to user preferences, together with information concerning facilities and events surrounding the navigated route for the user's convenience. The navigated route is selected to satisfy a trip's purpose. Such a trip's purpose may be (1) to reach a given destination as in prior art, and/or (2) to perform certain tasks enroute or at the destination, which may include purchasing business supplies, shopping for gifts, dining, obtaining entertainments, etc. To realize (2), navigator arrangement 100 in accordance with the invention allows for storage of user profiles including user preferences such as preferred types of restaurants, shops, entertainments, etc.

In accordance with an aspect of the invention, each user profile corresponds to one of the user's personae. For example, the user business profile corresponding to the user's business persona may be different from the user personal profile corresponding to his/her personal persona. For instance, the user

business profile may include fine-dining type restaurants for business meetings while the user personal profile may instead include fast-food type restaurants for personal dining. Other profiles may include a vacation profile which corresponds to the user's vacation persona and may include a different set of preferred restaurants, shops, entertainments, etc.

In accordance with another aspect of the invention, the user can adopt a second person's profile for a certain trip's purpose, thereby temporarily assuming the second person's persona, especially when arrangement 100 is shared by more than one person. For example, where a husband and wife share the use of arrangement 100, the husband may utilize the wife's profile in arrangement 100 to shop for a gift for the wife's birthday. Based on the profile corresponding to the wife's personal persona, arrangement 100 provides a navigated route, together with information concerning the wife's personal favorite shops surrounding the route. Of course, each user's profiles may be protected against uninvited intruders. In that case, access to the profiles may require verification of a personal identification number (PIN) or password, or other well known secure access measures. Profiles may also be imported or downloaded into arrangement 100 from an external source or from another arrangement similar to arrangement 100.

Thus, in accordance with the invention, arrangement 100 provides a navigated route, together with information concerning the favorite facilities and events surrounding the navigated route, which satisfy the preferences in a selected user profile. In this instance, such information comes from an external source, e.g., a server connected to the Internet, and is communicated to arrangement 100 through communication

unit 120.

In accordance with another aspect of the invention, the actual navigated route selected by arrangement 100 may depend on the mode of transportation specified by the user. For example, driving and walking are two different modes of transportation. The selected route for driving may be very different from that for walking, even though they may accomplish the same trip's purpose. The routes from which arrangement 100 selects for driving have to be passable by an automobile, which exclude, e.g., foot bridges, and walk paths through buildings, parks, fields, forests, etc. On the other hand, the routes from which arrangement 100 selects for walking have to be safe to pedestrians, which exclude, e.g., highways, freeways, etc.

In accordance with yet another aspect of the invention, the actual route selected by arrangement 100 may also depend on external conditions, e.g., traffic, weather and road conditions. Thus, based on the information concerning such external conditions received from, say, a server via the Internet, arrangement 100 selects the most time-efficient route, e.g., one that requires the least travel time, to accomplish the trip's purpose despite any adverse traffic, weather and road conditions.

In accordance with still yet another aspect of the invention, a user may prescribe one or more roadblocks specifying certain prohibited areas or paths from which the route selected by arrangement 100 deviates. For example, it may be sensible to place roadblocks around high crime areas especially when the user is new in town and unfamiliar with those areas. A roadblock may be permanent or temporary. For example, a temporary roadblock may be placed on certain streets where a parade is held which lasts for several hours.

Similar to a roadblock, a blockade may be imposed to block transmission of certain information to arrangement 100 which concerns, e.g., uninteresting facilities or events.

When a user initially utilizes arrangement 100 for navigation in accordance with the invention, the navigator browser in arrangement 100 opens a REGISTRATION page on display 113. Fig. 2 illustrates such a REGISTRATION page where the user is prompted for entering his/her personal data, e.g., his/her name, age, sex, marital status, occupation, city, education, religion and number of children.

After the entry of the personal data, the navigator browser opens a PROFILE SETTING page on display 113. Fig. 3 illustrates such a PROFILE SETTING page for the user to set up a profile corresponding to one of his/her personae. The user here is afforded a choice of "business", "personal" and "vacation" personae in box 203. By way of example, the user in this instance wants to set up a "personal" profile which includes preferences of the user while on personal travel (as opposed to business travel or vacation travel). Thus, the user may use a stylus to touch the "personal" option (as opposed to the "business" or "vacation" option) in box 203 on display 113 to select the option.

In addition, the user is prompted to select preferences in different categories to be included in his/her personal profile. For example, these categories may comprise MUSIC category 205, ENTERTAINMENT category 207, SHOPPING category 209, RECREATION category 211, SPORTS category 213, RESTAURANTS category 215 and SERVICES category 217. In this instance, the user selects COUNTRY option 231, and JAZZ option 235 in MUSIC category 205 for his/her music preferences. Similarly, the user may also select any options in other categories

for inclusion in his/her personal profile. Each selected option is illustratively indicated by a check mark at the option. Other profiles such as a business profile and vacation profile may be similarly set up.

Continuing the above example, after setting up his/her personal profile, the user selects SUBMIT option 241. In response, processor 103 in Fig. 1 obtains from GPS receiver 119 data concerning the GPS coordinates of the current location of arrangement 100. Based on the signals from a constellation of satellites which form part of the GPS, receiver 119 in a well known manner determines the GPS coordinates in question. Processor 103 then creates a record associated with the user. Fig. 4 illustrates the format of such a record (denoted 400) created by processor 103 in memory 108. Record 400 comprises section 503 containing the aforementioned personal data including, among others, the user's name which identifies record 400. Section 505 contains any business profile set up by the user. Section 507 in this instance contains the personal profile described above. Section 509 contains any vacation profile set up by the user. Section 511 contains the aforementioned GPS data indicating the current location of arrangement 100. Section 513 contains map and related information, based on which processor 103 is capable of generating maps which correspond to different modes of transportation, e.g., by automobile, on foot or by rail. Such map and related information also includes identities of facilities and events, and the GPS coordinates identifying the locations of such facilities and events on the maps. Section 515 contains business favorites which are determined based on the personal data in section 503, business profile in section 505 and GPS data in section 511. Similarly, section 517 contains personal favorites which are determined based on the personal data

in section 503, personal profile in section 507 and GPS data in section 511; and section 519 contains vacation favorites which are determined based on the personal data in section 503, vacation profile in section 509 and GPS data in section 511. It should be noted at this point that the information in sections 513, 515, 517 and 519 is provided by a navigation server connected to the Internet.

Continuing the above example, processor 103 in this instance causes the navigator browser in arrangement 100 to generate a request to the navigation server for the map and related information in section 513 and personal favorites in section 517. This request contains the personal data in section 503, personal profile in section 507, GPS data in section 511, a pre-assigned Internet protocol (IP) address for identifying the browser as the request originator, and a predetermined uniform resource locator (URL) identifying the navigation server on the Internet. It should be noted that the GPS data in section 511 is refreshed continually and in particular each time immediately before a request is sent to the navigation server to reflect the most current location of arrangement 100. The request is formatted in accordance with the requisite protocols including the well known transmission control protocol/Internet protocol (TCP/IP) in this instance.

Referring to Fig. 5, processor 103 causes communication unit 120 in navigator arrangement 100 to establish a dial-up connection through wireless communications network 613 to access server 622 maintained by an Internet service provider (ISP). The aforementioned request is then transmitted to access server 622 through the established connection. Upon receipt of the request, based on the URL therein, access server 622 routes the request to navigation server 630

identified by the URL. It should be noted at this point that server 622 may not be the only access server on the Internet serving arrangement 100 and the like. It will be appreciated that more access servers similar to server 622 are geographically distributed for effective communications with arrangement 100 and the like.

Navigation server 630 which may be a host computer provides the navigation service in accordance with the invention. Among other things, server 630 receives data from different sources and maintains numerous databases therein including a map database, a weather database, a traffic database, a road-condition database, a subscriber database, a non-subscriber database, etc.

The map database provides data concerning maps covering various geographic areas. Each map includes layers corresponding to different modes of transportation. For example, a first map layer corresponds to travel by automobile; a second map layer corresponds to travel on foot; a third map layer corresponds to travel by rail; etc. The map layers can be combined to facilitate travel by more than one mode of transportation. Buildings, locations, streets, roadways and the like in the map layers are defined and identified in the database by their GPS coordinates.

The weather database contains data concerning weather conditions in various geographic areas, which is collected and updated by server 630 from time to time using such systems as the United States satellite systems, Delta radars, local area radars, etc. The data concerning the weather conditions is stored in the weather database according to the GPS coordinates defining the areas affected by the weather conditions, respectively. As such, each weather condition is readily mapped to the area defined by the corresponding GPS

coordinates in the map layers.

Similarly, the traffic and road-condition databases each contain data concerning traffic and road conditions, which is updated and derived by server 630 from official traffic and road-condition reports furnished by local departments of transportation, and from data provided by well known radar systems such as line-of-sight radars, and Doppler radars each with terrain following capabilities, to sense surrounding traffic and road conditions. The data concerning the traffic conditions (road conditions) is stored in the traffic (road-condition) database according to the GPS coordinates defining the areas affected by the traffic conditions (road conditions), respectively. As such, each traffic condition (road condition) is readily mapped to the area defined by the corresponding GPS coordinates in the map layers.

The subscriber database in server 630 contains data concerning commercial facilities and events, e.g., department stores, gas stations, concerts, etc., which subscribe to the navigation service. With payment of a subscription fee, the subscribers may appear in the map layers for promotional purposes. The identities of the subscribers are stored in the subscriber database according to the GPS coordinates of the locations of such subscribers, along with other information concerning their address, contact phone number, web URL, business hours, advertisement, promotion, directory, etc.

The non-subscriber database in server 630 contains data concerning public facilities (e.g., parks, hospitals and rest stops) and civic and charity events which are selected to appear in the map layer without payment of a subscription fee. The identities of such non-subscribers are stored in the non-subscriber database according to the GPS coordinates of their locations,

along with other information concerning their address, contact phone number, web URL, charity or civic functions, etc.

Continuing the above example, upon receiving the request from arrangement 100, based on the personal data, personal profile and GPS data therein, server 630 determines the user's personal favorites as requested, e.g., favorite personal facilities and events, within a limited navigation coverage, e.g., defined by a predetermined radius from the GPS coordinates identified by the GPS data. Such favorite facilities and events may be selected from the above-described subscriber and non-subscriber databases. In addition, based on the map, weather, traffic, road-condition, subscriber and non-subscriber databases, server 630 provides the requested map and related information, which concerns (i) the map layers affording the limited navigation coverage, (ii) the weather, traffic and road conditions relevant to the coverage, (iii) the subscribers and non-subscribers appear in the coverage, and (iv) a time stamp indicating when the map and related information is provided. Since even with the same navigation coverage, the weather, traffic and road conditions in (ii) vary with time. As such, the map and related information is time-sensitive and thus includes the time stamp in (iv) to ensure its just-in-time provision.

Server 630 then transmits a response which contains (a) the IP address of the navigator browser in arrangement 100 to which the response is destined, (b) the personal favorite facilities and events just determined, and the GPS coordinates thereof, and (c) the map and related information, in accordance with the predetermined protocols. Upon receiving the response, processor 103 in arrangement 100 causes the received (b) and (c) to be stored in sections 517 and 513 of record

400, respectively.

When the content of section 517 is modified, as is in this case, the resulting list of personal favorites is automatically displayed for the user's review. Fig. 6 illustrates such a personal favorite list (denoted 651) shown on display 113 which includes, e.g., "Home Depot," "Wells Fargo," "Vons," "Chevron," "Jack in the Box," ....

It should be noted at this point that the personal favorites selected by server 630 may vary with the GPS data identifying the current location of arrangement 100, even though the personal data and personal profile remain the same. This stems from the fact that the selected favorite facilities and events may be limited to certain areas. When such facilities or events are outside the current navigation coverage, they are either eliminated or substituted by server 630 with similar facilities or events, in accordance with predetermined program instructions in server 630. For example, "Jack in the Box" which is a popular fast food restaurant in California but unavailable in New York may be substituted with "Wendy's" when the navigation coverage includes New York. In addition, server 630 may add to the personal favorite list those facilities and events which satisfy the personal data and personal profile, and which would otherwise be unavailable had it not been the current navigation coverage. Advantageously, when a user travels from one navigation coverage to another, based on the same personal data and personal profile and the current personal favorite list, server 630 can "clone" personal favorite lists which correspond to different navigation coverages. Similarly, server 630 can clone business favorite lists corresponding to different navigation coverages based on the same personal data and business profile and the current business favorite list, and vacation favorite

lists corresponding to different navigation coverages based on the same personal data and vacation profile and the current vacation favorite list. Thus, with arrangement 100, the user's lifestyle is maintained as much as possible despite traveling from place to place.

List 651 in Fig. 6 tends to be overinclusive. The user is afforded EDIT option 653 to modify the list to satisfy his/her needs. For example, to delete an item in list 651, the item is selected, followed by a selection of EDIT option 653. Processor 103 overwrites the content of section 517 of record 400 with the resulting list of personal favorites.

As mentioned before, the user may sometimes want to adopt another person's profile for a certain trip's purpose, e.g., buying a gift for that person. Thus, the user is also afforded preset profiles in arrangement 100, from which the user may select. Such preset profiles may be accessed by selecting PRESET PROFILE option 239 on the PROFILE SETTING page of Fig. 3. Fig. 7 illustrates preset Profiles 1 through 6 corresponding to profiles of a typical "Man," "Woman," "Business Man," "Business Woman," "Senior Citizen," and "Teenager." For example, the user may be a female and want to buy a gift for a man in a business setting. In that case, the user may want to view the preferences in Profile 3 of a business man using VIEW option 703, and may select such a profile using SELECT option 705, thereby assuming a man's business persona. After such a selection, a list of favorites corresponding to Profile 3 would be downloaded from navigation server 630 for the user's review in a manner described above. The user may then get a gift idea from the favorite list, and request arrangement 100 to navigate her to a selected favorite facility to buy the gift.

It should be noted that the user may also start

with one or more of preset profiles in Fig. 7, which the user may edit to become his/her business, personal and/or vacation profile described above.

Referring back to Fig. 6, after the business, personal and/or vacation favorite list is established, the user may select NAVIGATE option 657 for navigation by arrangement 100 in accordance with the invention. Upon such a selection by the user, the navigator browser in arrangement 100 opens a NAVIGATION page on display 113. Fig. 8 illustrates the NAVIGATION page where the user is prompted to select the mode of transportation (e.g., "By Automobile," "On Foot," or "By Rail" in box 803), and the list of favorites (e.g., "Personal," "Business" or "Vacation" favorites in box 807) used during the current navigation episode.

By way of example, the user in this instance is on a personal road trip and thus selects "By Automobile" as the mode of transportation, and "Personal" as the favorite list used. In response, the navigator browser opens a DIRECTIONS page on display 113. Fig. 9 illustrates such a DIRECTIONS page where the user is prompted to enter an origination address at query 903, where the navigation starts. In this instance, the user adopts the default response to query 903 which is the location identified by the GPS data in section 511 of record 400. Otherwise, the user may enter a different origination address. The user is also prompted to enter a destination address at query 905. The user in this instance enters a home address as the destination address. To avoid re-entering the same address in the future, the user may select LOCATIONS option 910 to save the address. In that case, the user is prompted to assign an icon, e.g., icon 915, and a designation, e.g., "HOME," to the home address. Thus, in the future, the user may select icon 915 in location box 907 to retrieve

the corresponding home address in response to query 903 or 905. Similarly, in location box 907 icon 909 corresponds to a previously saved address of a delicatessen; and icon 911 corresponds to a previously saved address of a fitness center.

Alternatively, addresses in locations box 907 may be saved by clicking at icons elsewhere and duplicating same in box 907. For example, icon 913 in location box 907 corresponding to a Wells Fargo bank address results from clicking at icon 1103e in favorites box 1103 (described below with Fig. 11) and duplicating same in box 907.

After learning the origination address and destination address responsive to queries 903 and 905, respectively, processor 103 analyzes the map and related information stored in section 513 of record 400. Specifically, processor 103 determines whether the navigation coverage based on the map layer corresponding to automobile travel in this instance, includes the origination and destination addresses, and whether the stored map and related information is fresh, as indicated at step 1003 in Fig. 10. If the navigation coverage includes the origination and destination addresses in question, and the period elapsed from the time stamp of the stored map and related information does not exceed a predetermined period (i.e., the stored map and related information is fresh), based on such map and related information, processor 103 at step 1006 selects the route from the origination address to the destination address which is the most time-efficient, i.e., fastest by automobile in this instance, taking into account the relevant weather, traffic, and road conditions along the selected route, together with any roadblocks set up by the user in a manner to be described. Such a selection process is achieved by analyzing the portion of the map

and related information concerning the weather, traffic and road conditions and roadblocks in the navigation coverage, and involves predictions concerning the effects of such conditions on the automobile travel along the selected route at different points in time. At step 1009, processor 103 causes turn-by-turn instructions 917 concerning the selected route to be shown on the DIRECTIONS page.

Otherwise, if the stored map and related information does not cover the origination and/or destination address in question, and/or if the map and related information is not fresh, processor 103 at step 1013 establishes a communication connection to navigation server 630. At step 1016, processor 103 causes a transmission of a request for fresh map and related information for an appropriate navigation coverage through the established connection. This request contains, among other things, the personal favorites in section 517, personal data in section 503 and personal profile in section 507 of record 400, in addition to the origination and destination address information. In response to such a request, navigation server 630 prepares new map and related information for the coverage from at least the origination address to the destination address. In addition, based on the new map and related information, the received personal favorite list, personal data and personal profile, server 630 "clones" a personal favorite list from the received list. As discussed before, this cloned list may be different from the received list to reflect any geographic differences between the previous and current navigation coverages. At step 1019, processor 103 receives from server 630 the new map and related information and cloned personal favorite list. Processor 103 at step 1021 stores them in sections 513 and 517 of record 400, respectively. Again,

the user is afforded a chance to edit the cloned personal favorite list in a manner described before. Processor 103 then proceeds to step 1006 described above.

Referring back to Fig. 9, the user in this instance may rely on turn-by-turn instructions 917 to reach home by automobile. If arrangement 100 is "docked" or connected to the aforementioned automobile system, the turn-by-turn instructions would be communicated by the automobile system via audio media to the user when the automobile traversing the navigated route approaches each turn.

In addition, the user is afforded VIEW option 919 to view an image of a map including the navigated route. Upon selection of option 919, the navigator browser opens a MAP VIEWER page on display 113. Fig. 11 illustrates such a MAP VIEWER page including map 1101 which corresponds to automobile travel. Map 1101 is also derived from the map and related information currently stored in section 513 of record 400. The navigated route (denoted 1102) for which instructions 917 are given is highlighted on the MAP VIEWER page, with preselected icon 1107 indicating the origination address previously entered, and icon 915 described above indicating the destination address previously entered.

In addition, favorites box 1103 on the MAP VIEWER page lists the personal favorites currently stored in section 517 of record 400. The icons which are associated with such personal favorites are populated on map 1101 to indicate the locations of such personal favorites. For example, icon 1103a in box 1103 associated with the personal favorite "Chevron" is also shown on map 1101 to indicate its location thereon. Icon 1103b in box 1103 associated with "Vons" is also shown on map 1101 to indicate its location thereon. Icon 1103c in box 1103 associated with "Comp USA" is also shown on map

1101 to indicate its location thereon. Icon 1103d in box 1103 associated with "Kmart" is also shown on map 1101 to indicate its location thereon. Icon 1103e in box 1103 associated with "Wells Fargo" is also shown on map 1101 to indicate its location thereon.

Scene box 1105 lists "scenic" facilities and events which may serve as landmarks along the navigated route, as the icons associated with such scenic facilities and events are also populated on map 1101. Some scenic facilities and events may be important to the user such as a rest stop indicated by icon 1105a, or "McDonald's" indicated by icon 1105b in case the user is hungry when traveling along the navigated route which is not close to any of his/her favorite restaurants in this instance. Some scenic facilities and events may be of marginal interest to the user such as the "Charity Walkathon" indicated by icon 1105c. If indeed the user decides to adopt any scenic facility or event as one of his/her favorites, the user may use an indicator device to click at the icon associated with the scenic facility or event in either box 1105 or map 1101 and drag same into box 1103. For example, if after trying McDonald's Restaurant indicated by icon 1105b, the user decides to add the restaurant to his/her favorite list, he/she may then click at icon 1105b in either box 1105 or map 1101 and drag same into box 1103 to effect such an addition.

In this instance, the user is afforded PHONE option 1109 to contact personnel of any listed facilities or events by phone. For example, a selection by the user of icon 1105b, followed by a selection of telephone option 1109, causes processor 103 to look up, from the map and related information stored in section 513 of record 400, the phone number of McDonald's Restaurant associated with icon 1105b. Processor 103 then causes transceiver 121 to place a voice call to McDonald's

Restaurant using the phone number just looked up. Accordingly, the user may talk to the personnel of the restaurant over the phone connection.

Alternatively, the user is afforded INFO option 1111 to obtain further information regarding any listed facilities or events. For example, a selection by the user of icon 1105b, followed by a selection of INFO option 1111, causes processor 103 to access the stored map and related information in section 513 for video and sound clips, graphics and textual information concerning McDonald's restaurant associated therewith. In this instance, the processor 103 causes user interface 115 to announce, "Welcome to McDonald's," and/or the navigator browser to play a commercial of McDonald's Restaurant based on the video and sound clips. The navigator browser then opens a MCDONALD'S RESTAURANT page on display 113.

Fig. 12 illustrates the MCDONALD'S RESTAURANT page containing directions to McDonald's Restaurant associated with icon 1105b, and information concerning the restaurant service hours, phone number, facility, any promotion, etc.
NAVIGATE key 1205, BACK key 1209, RESTAURANT WEBSITE key 1213 and RESTAURANT MENU key 1215 are also provided on the RESTAURANT page. A selection of NAVIGATE key 1205 causes processor 103 to provide the user with a DIRECTIONS page similar to Fig. 9 described before, including turn-by-turn instructions to the restaurant.

A selection of BACK key 1209 enables the user to return to the previous page, i.e., the MAP VIEWER page. Key 1213 represents a hyperlink to the website of the restaurant. Thus, a selection of key 1213 causes the navigator browser to open the restaurant home page on display 113. In addition, a selection of key 1215 enables the user to access the RESTAURANT MENU page,

which is illustrated in Fig. 13.

As shown in Fig. 13, the RESTAURANT MENU page enumerates types of food and beverages served in the restaurant. Each food and beverage entry may be highlighted by selecting same. The user may order ahead the highlighted food and beverages by selecting ORDER key 1305. Upon selection of key 1305, the navigator browser causes the order information to be transmitted through Internet 650 to a restaurant server at a predetermined URL for processing the order. Thus, the resulting order awaits the user's arrival at the restaurant.

Referring back to Fig. 11, the user is also afforded BLOCK option 1113, whereby the user can prevent or limit the appearance of certain subscribers and non-subscribers in navigation by arrangement 100. For example, a selection by the user of icon 1105b, followed by a selection of BLOCK option 1113, causes the navigator browser to send to server 630 a request for blocking transmission of information concerning McDonald's Restaurant to arrangement 100. Upon receiving such a request, server 630 returns to the navigator browser an INQUIRY page, which the browser then opens on display 113.

Fig. 14 illustrates such an INQUIRY page where the user is afforded a choice of a PERMANENT BLOCKADE and a TEMPORARY BLOCKADE. In this instance, a selection by the user of the PERMANENT BLOCKADE causes a permanent prevention of transmission of information concerning any McDonald's Restaurant in the world to arrangement 100. An alternative selection of the TEMPORARY BLOCKADE needs to be accompanied by a specification of a time period during which the blockade is effective. For example, the user may have grown tired of McDonald's food and thus may want to use the TEMPORARY BLOCKADE to prevent transmission of information concerning any McDonald's

Restaurant in the world to arrangement 100 for a specified period.

Any blockade choice by the user is communicated by the navigator browser in arrangement 100 to server 630. The latter stores the blockade choice in a record identified by the IP address of the navigator browser. In each subsequent navigation episode, server 630 transmits to the navigator browser information concerning subscribers and non-subscribers in a selective manner, reflecting any blockade choice stored in the associated record.

Similarly, the user is afforded ROADBLOCK option 1115 to preclude certain roadways or areas from navigation consideration by arrangement 100 as the roadways may be hazardous for driving and the areas may have a high crime rate. For example, to set up roadblocks, after selecting ROADBLOCK option 1115, the user may use a stylus to trace any roadway or define any area on display 113 to be excluded from the navigation consideration. In this instance, the user chooses to block a portion of the Ortega Highway denoted 1131 and indicated by crosses thereon, and area 1133 shown shaded in Fig. 11. In response, the navigator browser may open an inquiry page similar to Fig. 14 where the user may specify whether each roadblock is a permanent blockade or temporary blockade. Processor 103 stores the user's choices of blockade and the GPS coordinates defining road portion 1131 and area 1133 in section 513 of record 400. Based on such stored information, processor 103 accordingly selects routes circumventing road portion 1131 and area 1133 in navigation.

The user is also afforded DELETE option 1117 to remove certain displayed items in the MAP VIEWER page. For example, a selection by the user of icon 1105b, followed by a selection of DELETE option 1117 causes a

deletion of icon 1105b from both box 1105 and map 1101, along with any information associated therewith.

The foregoing merely illustrates the principles of the invention. It will thus be appreciated that those skilled in the art will be able to devise numerous other arrangements which embody the principles of the invention and are thus within its spirit and scope.

For example, navigator arrangement 100 is disclosed herein in a form in which various functions are performed by discrete functional blocks. However, any one or more of these functions could equally well be embodied in an arrangement in which the functions of any one or more of those blocks or indeed, all of the functions thereof, are realized, for example, by one or more appropriately programmed processors.

Claims

1. Navigation apparatus comprising:

a memory for storing at least one profile, the at least one profile including preferences;

a device for providing data identifying a location of the apparatus, favorites being determined based on the data and the preferences in the at least one profile;

an interface for receiving a navigation request; and

a processor responsive to the navigation request for providing navigation information which includes information concerning at least one of the favorites.

2. The apparatus of claim 1 wherein the at least one profile includes a personal profile which contains preferences relating to personal activities.

3. The apparatus of claim 1 wherein the at least one profile includes a business profile which contains preferences relating to business activities.

4. The apparatus of claim 1 wherein the at least one profile includes a vacation profile which contains preferences relating to vacation activities.

5. The apparatus of claim 1 wherein the at least one profile includes a preset profile which allows for editing.

6. The apparatus of claim 1 wherein the favorites concern selected facilities.

7. The apparatus of claim 6 wherein the selected facilities include selected restaurants.

8. The apparatus of claim 1 wherein the favorites concern selected events.

9. The apparatus of claim 1 wherein the navigation information also includes information concerning a navigated route and a geographic relation of the at least one of the favorites to the navigated route.

10. The apparatus of claim 1 wherein the data includes global positioning system (GPS) based data.

11. The apparatus of claim 1 comprising a hand-held device.

12. Navigation apparatus comprising:

a device for providing data concerning a location of the apparatus;

an interface for selecting a mode of transportation; and

a processor for providing map related information based on the data and a selected mode of transportation.

13. The apparatus of claim 12 wherein the selected mode of transportation includes walking.

14. The apparatus of claim 12 wherein the selected mode of transportation includes transportation by vehicle.

15. The apparatus of claim 12 wherein the selected mode of transportation includes public transportation.

16. The apparatus of claim 12 wherein the map related information includes information concerning traffic conditions.

17. The apparatus of claim 12 wherein the map related information includes information concerning road conditions.

18. The apparatus of claim 12 wherein the map related information includes information concerning weather conditions.

19. The apparatus of claim 12 wherein the map related information is organized according to GPS coordinates.

20. Apparatus for receiving a navigation request comprising:

a memory for storing at least one profile including preferences;

a device for providing data indicating a location of the apparatus,

an interface for providing navigation information, the navigation information including a set of favorites which is identified based on the preferences and the location of the apparatus; and

a processor responsive to the navigation request for determining based on the data whether the location of the apparatus is outside a predetermined range of a current location of the apparatus, the interface providing navigation information which includes a second set of favorites when it is determined that the location of the apparatus is outside the predetermined range of the current location of the apparatus, the second set of favorites being identified based on the preferences and the current location of the apparatus.

21. Navigation apparatus comprising:

a first interface for receiving a request for map

related information concerning an area;

a second interface responsive to the request for providing the map related information, the map related information including data concerning at least one of facilities and events in the area, the data being received from an external source; and

a processor for providing an option to avoid receipt of data concerning the at least one of the facilities and events.

22. The apparatus of claim 21 wherein the option includes an option to avoid the receipt of the data within a selected period.

23. Navigation apparatus comprising:

a first interface for receiving a request for a route to a destination;

a second interface for defining at least one area to be avoided; and

a processor for planning the route, which avoids the at least one area, the processor causing an output of information concerning the planned route.

24. The apparatus of claim 23 wherein a period during which the at least one area is to be avoided is also defined.

25. A system serving a device for providing navigation information comprising:

a first interface for receiving a request from the device, the request including at least one profile, and data concerning a location of the device, the profile comprising preferences;

a processor responsive to the request for identifying favorites based on the data and the

preferences in the at least one profile; and

a second interface for providing the favorites to the device for incorporation of the favorites into the navigation information.

26. The system of claim 25 wherein the request is received through a communications network.

27. The system of claim 26 wherein the communications network includes an Internet.

28. A method for use in a navigation apparatus, the method comprising:

storing at least one profile, the at least one profile including preferences;

providing data identifying a location of the apparatus;

determining favorites based on the data and the preferences in the at least one profile;

receiving a navigation request; and

in response to the navigation request, providing navigation information which includes information concerning at least one of the favorites.

29. The method of claim 28 wherein the at least one profile includes a personal profile which contains preferences relating to personal activities.

30. The method of claim 28 wherein the at least one profile includes a business profile which contains preferences relating to business activities.

31. The method of claim 28 wherein the at least one profile includes a vacation profile which contains preferences relating to vacation activities.

32. The method of claim 28 wherein the at least one profile includes a preset profile which allows for editing.

33. The method of claim 28 wherein the favorites concern selected facilities.

34. The method of claim 33 wherein the selected facilities include selected restaurants.

35. The method of claim 28 wherein the favorites concern selected events.

36. The method of claim 28 wherein the navigation information also includes information concerning a navigated route and a geographic relation of the at least one of the favorites to the navigated route.

37. The method of claim 28 wherein the data includes GPS based data.

38. A method for use in a navigation apparatus, the method comprising:

providing data concerning a location of the apparatus;

selecting a mode of transportation; and

providing map related information based on the data and a selected mode of transportation.

39. The method of claim 38 wherein the selected mode of transportation includes walking.

40. The method of claim 38 wherein the selected mode of transportation includes transportation by vehicle.

41. The method of claim 38 wherein the selected mode of transportation includes public transportation.

42. The method of claim 38 wherein the map related information includes information concerning traffic conditions.

43. The method of claim 38 wherein the map related information includes information concerning road conditions.

44. The method of claim 38 wherein the map related information includes information concerning weather conditions.

45. The method of claim 38 wherein the map related information is organized according to GPS coordinates.

46. A method for use in an apparatus for receiving a navigation request, the method comprising:

storing at least one profile including preferences;

providing data indicating a location of the apparatus,

providing navigation information, the navigation information including a set of favorites which is identified based on the preferences and the location of the apparatus;

in responsive to the navigation request, determining based on the data whether the location of the apparatus is outside a predetermined range of a current location of the apparatus; and

providing navigation information which includes a second set of favorites when it is determined that the location of the apparatus is outside the predetermined range of the current location of the apparatus, the

Meta's Exhibit 1022
Page 00254

second set of favorites being identified based on the preferences and the current location of the apparatus.

47. A method for use in a navigation apparatus, the method comprising:

receiving a request for map related information concerning an area;

in response to the request, providing the map related information, the map related information including data concerning at least one of facilities and events in the area, the data being received from an external source; and

providing an option to avoid receipt of data concerning the at least one of the facilities and events.

48. The method of claim 47 wherein the option includes an option to avoid the receipt of the data within a selected period.

49. A method for use in a navigation apparatus, the method comprising:

receiving a request for a route to a destination;

defining at least one area to be avoided; and

planning the route, which avoids the at least one area; and

causing an output of information concerning the planned route.

50. The method of claim 49 wherein a period during which the at least one area is to be avoided is also defined.

51. A method for serving a device for providing navigation information, the method comprising:

receiving a request from the device, the request

Meta's Exhibit 1022
Page 00255

including at least one profile, and data concerning a location of the device, the profile comprising preferences;

in response to the request, identifying favorites based on the data and the preferences in the at least one profile; and

providing the favorites to the device for incorporation of the favorites into the navigation information.

52. The method of claim 51 wherein the request is received through a communications network.

53. The method of claim 52 wherein the communications network includes an Internet.

FIG. 1

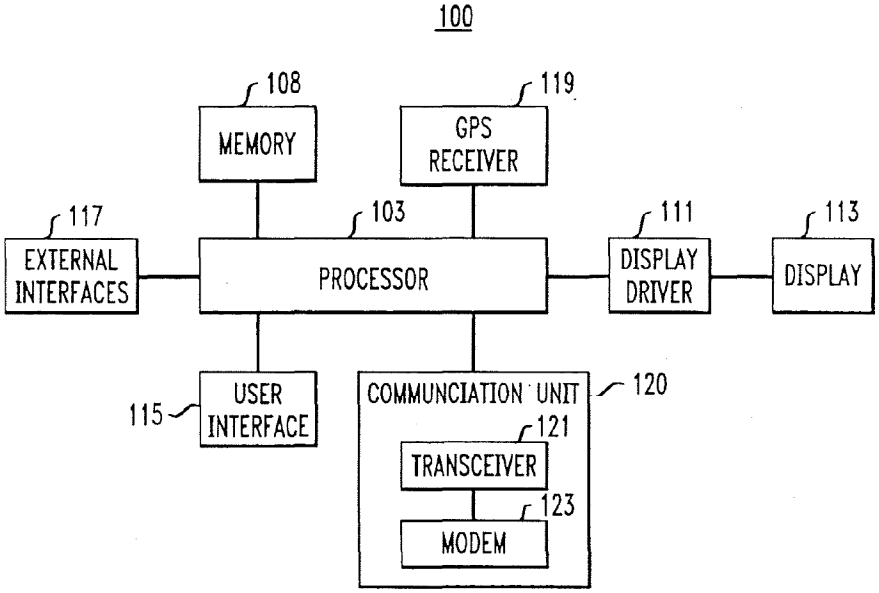

100
108
MEMORY
119
GPS RECEIVER
117
EXTERNAL INTERFACES
103
PROCESSOR
111
DISPLAY DRIVER
113
DISPLAY
115
USER INTERFACE
COMMUNCIATION UNIT
120
121
TRANSCEIVER
123
MODEM

FIG. 2

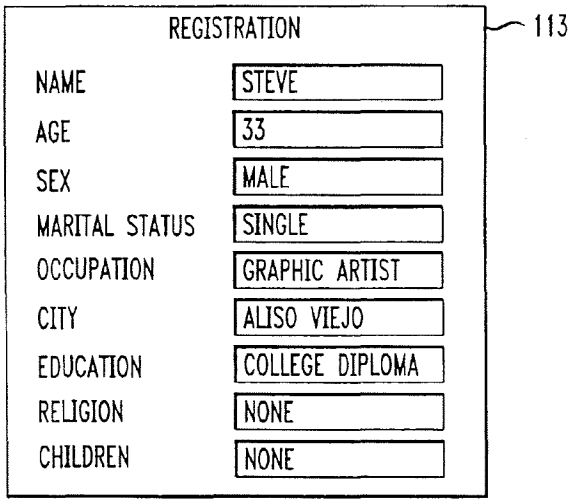
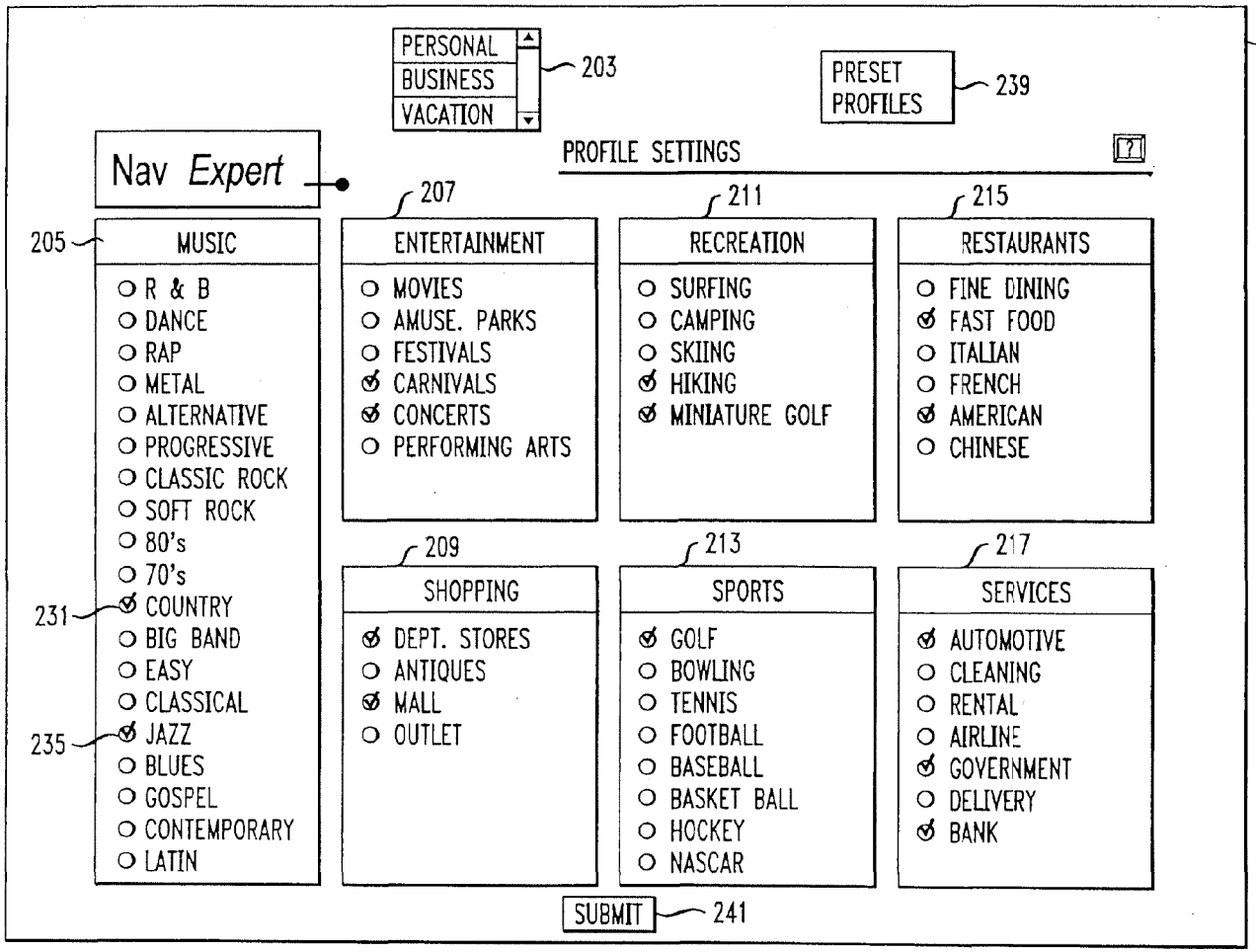

REGISTRATION
113
NAME
STEVE
AGE
33
SEX
MALE
MARITAL STATUS
SINGLE
OCCUPATION
GRAPHIC ARTIST
CITY
ALISO VIEJO
EDUCATION
COLLEGE DIPLOMA
RELIGION
NONE
CHILDREN
NONE

FIG. 3



RPX CORPORATION - IPR2018-01132, Ex. 1021, p. 39 of 45

Meta's Exhibit 1022
Page 00258

FIG. 4

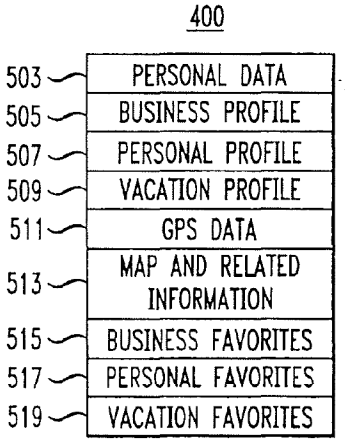

400
503
PERSONAL DATA
505
BUSINESS PROFILE
507
PERSONAL PROFILE
509
VACATION PROFILE
511
GPS DATA
513
MAP AND RELATED INFORMATION
515
BUSINESS FAVORITES
517
PERSONAL FAVORITES
519
VACATION FAVORITES

FIG. 5

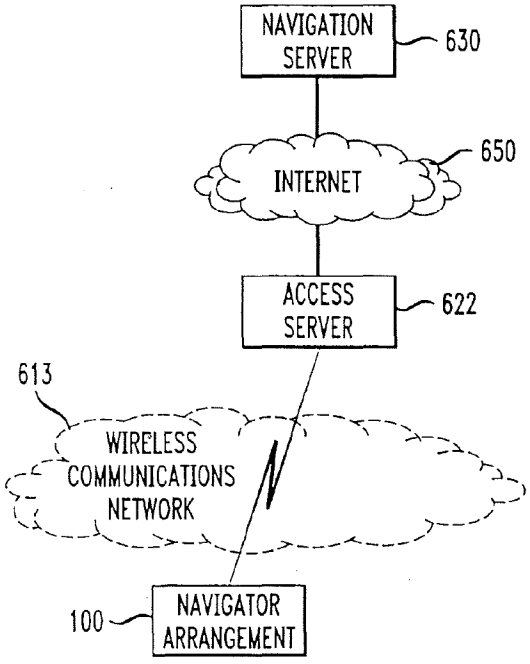

NAVIGATION SERVER
630
INTERNET
650
ACCESS SERVER
622
613
WIRELESS COMMUNICATIONS NETWORK
100
NAVIGATOR ARRANGEMENT

FIG. 6

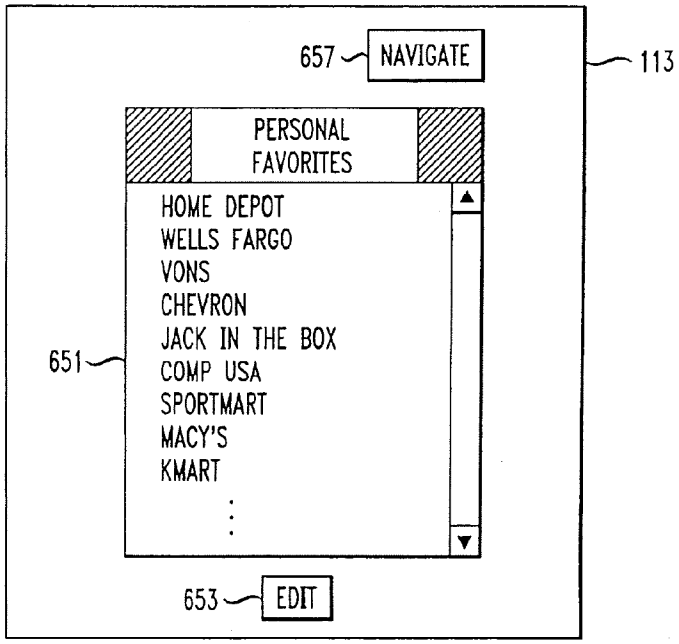

657
NAVIGATE
113
PERSONAL FAVORITES
HOME DEPOT
WELLS FARGO
VONS
CHEVRON
JACK IN THE BOX
COMP USA
SPORTMART
MACY'S
KMART
651
653
EDIT

FIG. 7

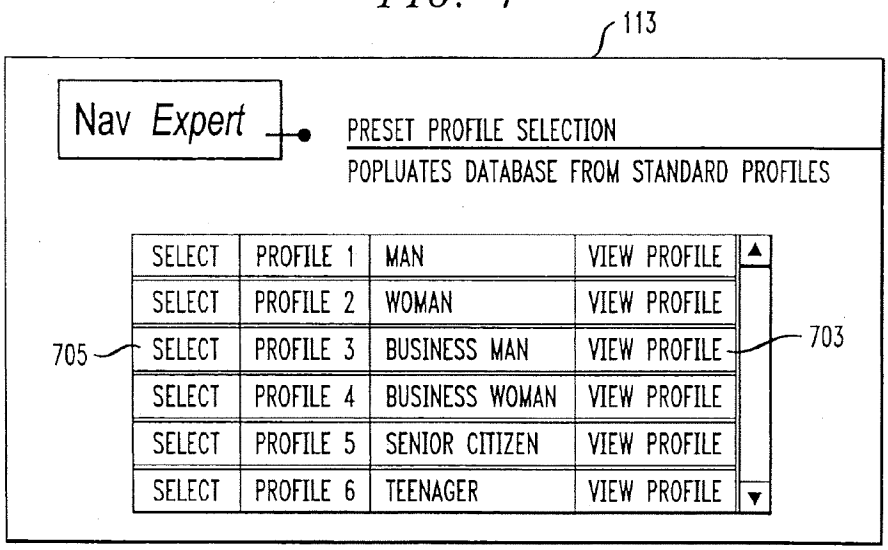

113
Nav Expert
PRESET PROFILE SELECTION
POPLUATES DATABASE FROM STANDARD PROFILES
SELECT PROFILE 1 MAN VIEW PROFILE
SELECT PROFILE 2 WOMAN VIEW PROFILE
SELECT PROFILE 3 BUSINESS MAN VIEW PROFILE
SELECT PROFILE 4 BUSINESS WOMAN VIEW PROFILE
SELECT PROFILE 5 SENIOR CITIZEN VIEW PROFILE
SELECT PROFILE 6 TEENAGER VIEW PROFILE
705
703

FIG. 8

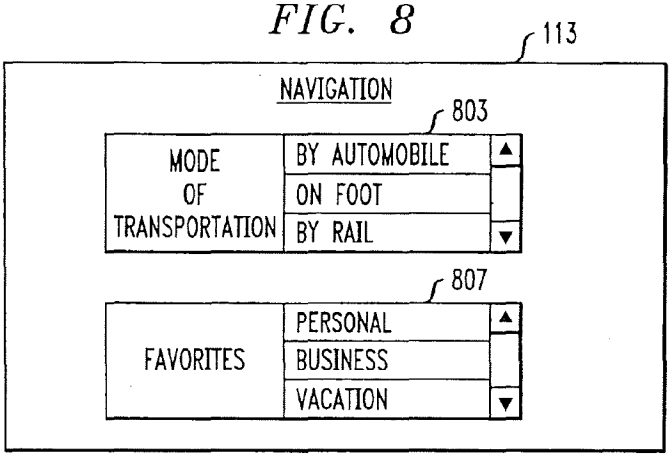
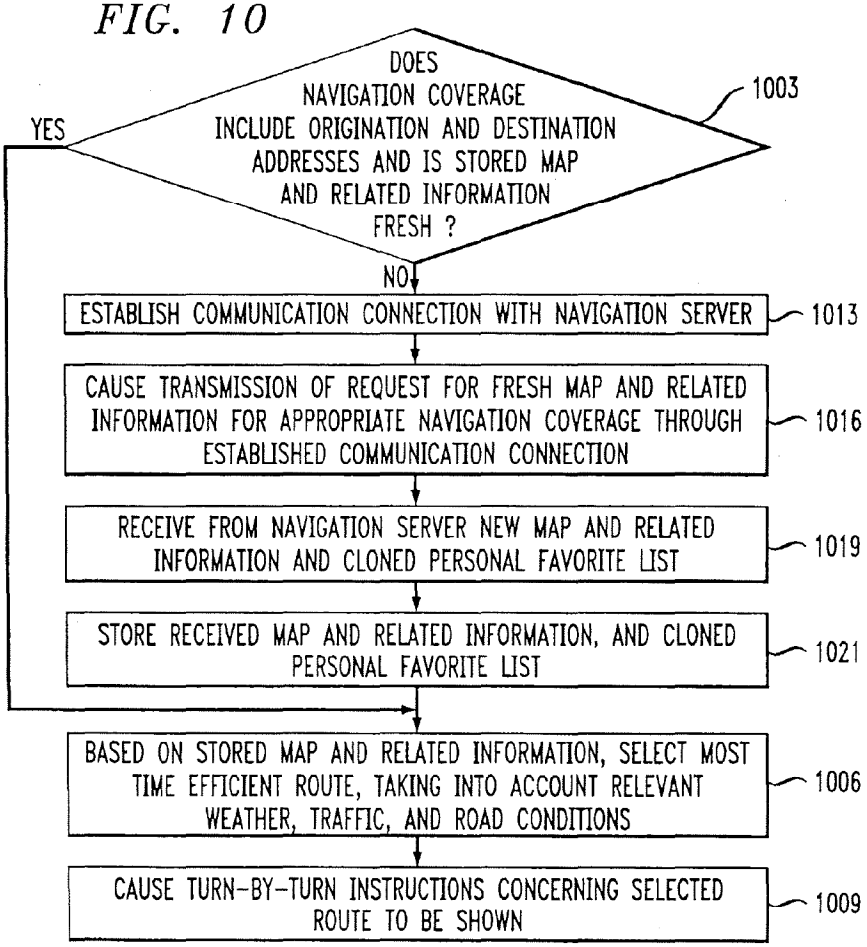


FIG. 10



RPX CORPORATION - IPR2018-01132, Ex. 1021, p. 42 of 45

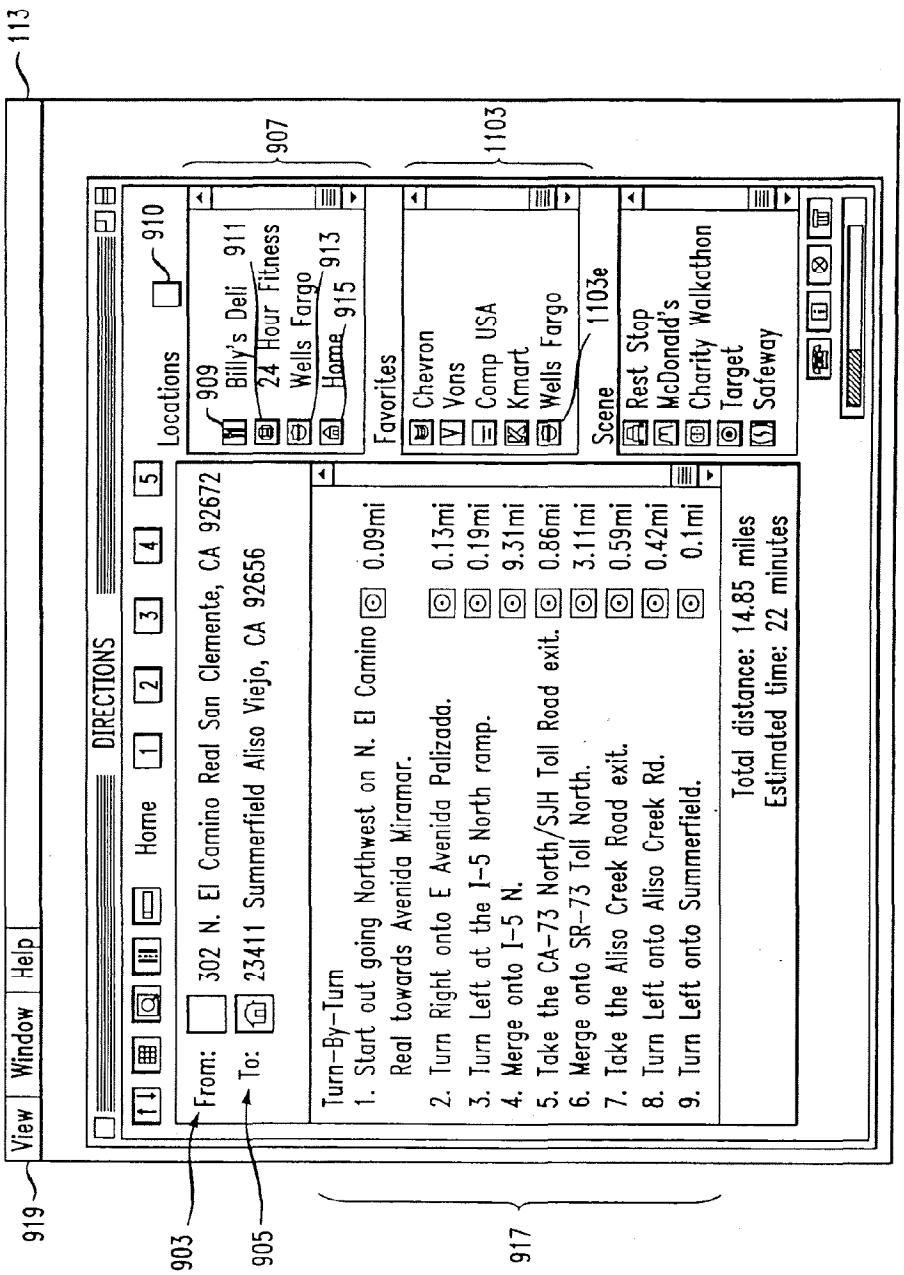


FIG. 9

RPX CORPORATION - IPR2018-01132, Ex. 1021, p. 43 of 45

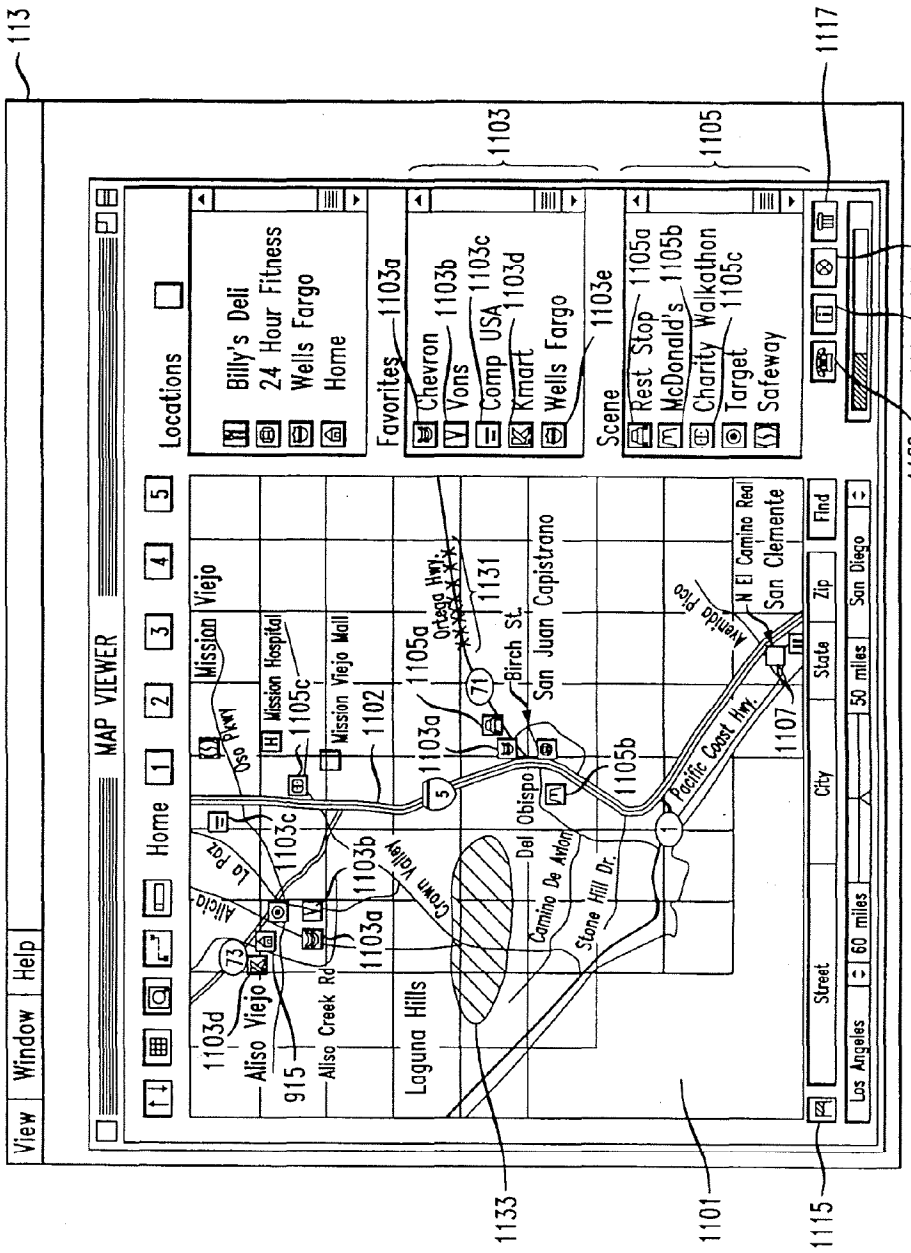


FIG. 11

RPX CORPORATION - IPR2018-01132, Ex. 1021, p. 44 of 45

FIG. 12

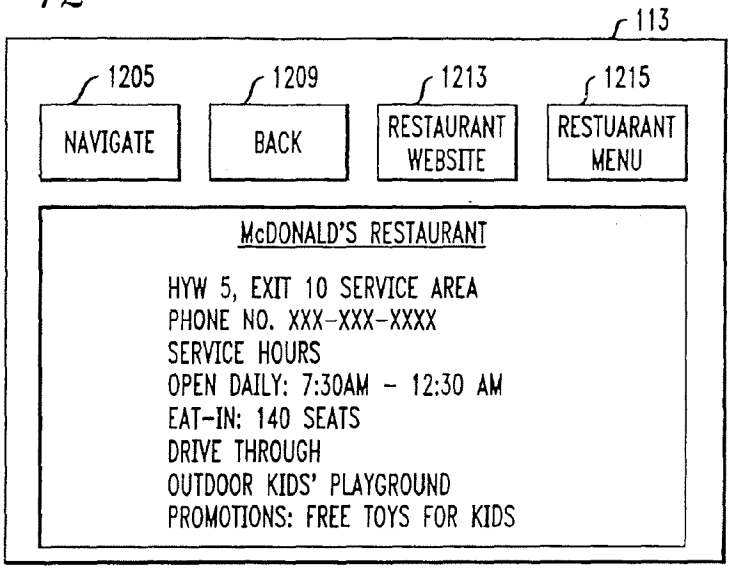


FIG. 13

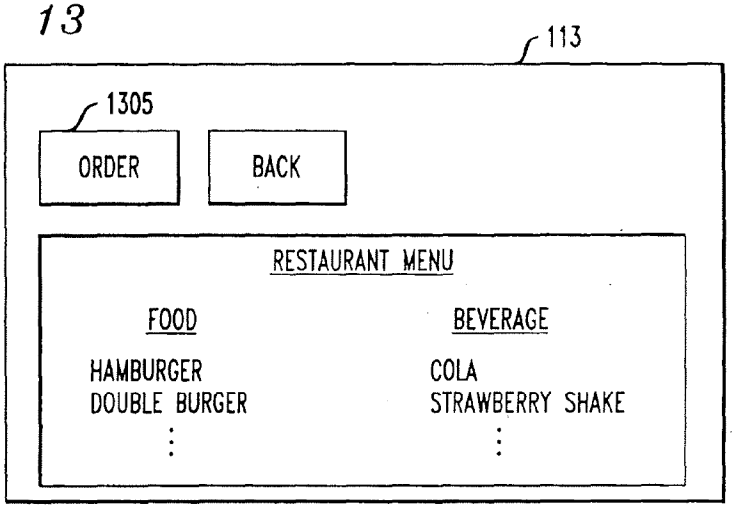
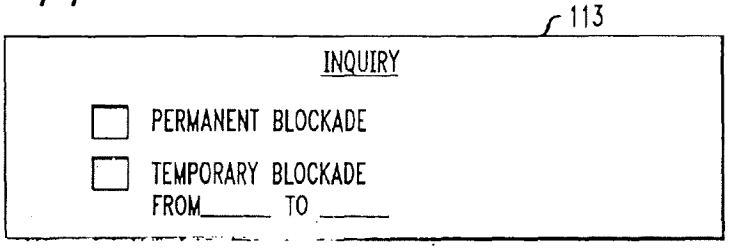


FIG. 14



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	REQUEST ID
15/889,781		3622	90641

PAIR Correspondence Address/Fee Address Change

The following fields have been changed to Customer Number 31825 on 06/27/2019 via Private PAIR in view of the certification copied below that authorized the change.

- Correspondence Address

The address for Customer Number 31825 is:
31825
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

An attorney or Agent of Record registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature:	/Joseph B. Ryan/
Name:	Joseph B. Ryan
Registration Number:	37922

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/889,781	02/06/2018	David Walker Harper	1018-2 CON8	1070

31825 7590 02/07/2020
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER
JEAN GILLES, JUDE

ART UNIT	PAPER NUMBER
2447	

NOTIFICATION DATE	DELIVERY MODE
02/07/2020	ELECTRONIC

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

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

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

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

Office Action Summary	Application No. 15/889,781	Applicant(s) Harper et al.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	AIA (FITF) 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 02/06/2018.

☐ 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) 1-20 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) 1-20 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 02/06/2018.

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

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

This Office Action is in reply to communication filed on 02/06/2018. Claimed priority is granted from Provisional Application 60389430, filed 06/18/2002.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 02/06/2018, 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 conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the

reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

Claims 1-20 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-20 of U.S. Patent No. US 9922348 B2. Although the claims at issue are not identical, they are not patentably distinct from each other because both the patent and the application claim a method/system for 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.

Conclusions

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUDE JEAN GILLES whose telephone number is (571)272-3914. The examiner can normally be reached on Mon-Fri, from 9:00AM-7:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Hwang can be reached on 571-272-4036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447
February 3, 2020

Notice of References Cited	Application/Control No. 15/889,781	Applicant(s)/Patent Under Reexamination Harper et al.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-5648958-A	07-1997	Counterman; Raymond C.	H04J3/247	370/437
*	B	US-5307347-A	04-1994	Duault; Maurice	H04Q11/0428	370/439
*	C	US-5533029-A	07-1996	Gardner; Steven H.	H04W88/10	370/329
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	Harper et al.
	Examiner	Art Unit
	JUDE JEAN GILLES	2447

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	014.480; 217, 203, 204, 232, 200, 224, 250, 248, 223, 228, and 229	02/03/2020	JG

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

Search Notes		
Search Notes	Date	Examiner
EAST text and claim search; NPLs	02/03/2020	JG

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/JUDE JEAN GILLES/ Primary Examiner, Art Unit 2447	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	Harper et al.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

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

CLAIMS

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

CLAIM		DATE								
Final	Original	02/03/2020								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

Meta's Exhibit 1022
Page 00273

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	311	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (Engagelogic adj3 Corporation).asn.)	US-PGPUB; USPAT	OR	ON	2020/02/03 13:10
L2	62495	(((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	2020/02/03 13:23
L3	62495	(((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	2020/02/03 13:23
L4	62409	2 or 3	US-PGPUB; USPAT	OR	ON	2020/02/03 13:23
L5	62409	2 and 3	US-PGPUB; USPAT	OR	ON	2020/02/03 13:24
L6	3213804	activat$3 mobile adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:25
L7	3191743	activat$3 mobile adj4 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:25
L8	3186294	activat$3 mobile adj4 (information content message data) adj4 channel same insert$3 near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:25
L9	3186294	activat$3 mobile adj4 (information content message data) adj4 channel same (insert$3 integrat$3) near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:26
L10	8838	(user member individual customer subscriber) near10 shar$3 adj4 access$3 and activat$3 mobile adj4 (information content message data) adj4 channel same (insert$3 integrat$3) near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:27
L11	1	(user member individual customer subscriber) near10 shar$3 adj4 access$3 and activat$3 adj4 mobile adj4 (information content message data) adj4 channel same (insert$3 integrat$3) near20 portion near10 (information content message data)	US-PGPUB; USPAT	OR	ON	2020/02/03 13:27

		adj4 channel				
L12	22129	(user member individual customer subscriber) near10 shar$3 adj4 access$3	US-PGPUB; USPAT	OR	ON	2020/02/03 13:29
L13	7380	(user member individual customer subscriber) near10 shar$3 adj4 access$3 adj7 (content data information messag$3)	US-PGPUB; USPAT	OR	ON	2020/02/03 13:29
L14	1	"9922348".pn.	US-PGPUB; USPAT	OR	ON	2020/02/03 13:30
L15	1	"9922348".pn.	US-PGPUB; USPAT	OR	ON	2020/02/03 13:38
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	US-PGPUB; USPAT	OR	ON	2014/05/13 09:29

		subscriber) and mobile adj4 (information data content) adj4 channel same wireless adj4 network				
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	US-PGPUB; USPAT	OR	ON	2014/05/13 11:29

		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 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
S41	3	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	2014/06/30 13:30
S42	27766	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber))	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S43	4847	mobile adj4 (information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S44	27	S43 and S42	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S45	19120	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S46	23279	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless0 adj4 information data content) adj4	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32

		channel)				
S47	55210	((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	2014/06/30 13:32
S48	622	S47 and S46	USPAT	OR	OFF	2014/06/30 13:32
S49	200	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S50	7	S47 and S49	US-PGPUB; USPAT	OR	OFF	2014/06/30 13:32
S51	55210	((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	2014/06/30 13:32
S52	183	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (wireless adj3 ink adj3 corporation).asn.)	US-PGPUB; USPAT	OR	ON	2014/06/30 13:33
S53	24310	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2017/05/15 14:17
S54	1	"9619578".pn.	US-PGPUB; USPAT	OR	ON	2017/05/15 14:18
S55	7	mobile adj4 (information data content) adj4 channel near20 (user adj4 interfac$3) same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2017/05/15 14:23
S56	8	mobile adj4 (information data content) adj4 channel same wireless adj4 network same user adj4 interfac$3	US-PGPUB; USPAT	OR	ON	2017/05/15 14:23
S57	23	mobile adj4 (information data content) adj4 channel and wireless adj4 network same shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2017/05/15 14:24
S58	19	mobile adj4 (information data content) adj4 channel same wireless adj4 network and access$3 adj5 shar$3 same user	US-PGPUB; USPAT	OR	ON	2017/05/15 14:24
S59	1346	activat$3 near7 (mobile adj4 (information content))	US-PGPUB; USPAT	OR	ON	2017/05/15 14:24
S60	13	activat$3 near7 (mobile adj4 (information content))same insert$3 adj6 (content data information)	US-PGPUB; USPAT	OR	ON	2017/05/15 14:25
S61	62536	((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	2017/05/15 14:26
S62	29	S61 and S59	US-PGPUB;	OR	ON	2017/05/15

			USPAT			14:26
S63	1	"7599983".pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:46
S64	1	"7908342".pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:49
S65	1	"8793336" .pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:52
S66	1	"8793336".pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:52
S67	1	"9619578" .pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:55
S68	40147	(server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)	US-PGPUB; USPAT	OR	ON	2017/10/30 12:58
S69	1183	(first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)	US-PGPUB; USPAT	OR	ON	2017/10/30 12:58
S70	245	(first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content) same (second$3) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)	US-PGPUB; USPAT	OR	ON	2017/10/30 12:58
S71	0	(web internet)adj7 channel same (first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content) same (second$3) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)	US-PGPUB; USPAT	OR	ON	2017/10/30 12:59
S72	29	(first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content) same internet	US-PGPUB; USPAT	OR	ON	2017/10/30 13:00
S73	69710	((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 (370/232) or (370/235) or (370/241.1) or (370/248) or (375/225) 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	2017/10/30 13:23
S74	264	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (wireless adj3 ink adj3 corporation).asn.)	US-PGPUB; USPAT	OR	ON	2017/10/30 13:25
S75	0	S72 and S73 and S74	US-PGPUB; USPAT	OR	ON	2017/10/30 13:25

2/ 3/ 2020 2:16:12 PM
C:\ Users\ jjeangilles\ Documents\ EAST\ Workspaces\ 15889781.wsp

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

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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	
	Filing Date	2018-02-06
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON8

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

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

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

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	1	"AOL on Pocketnet-alt.cellular," Google Groups, at http://groups.google.com/group/alt.cellular/browse_thread/7ee068aee823a48c/411, 2 pages.	☐
	2	"Cellmania - Leading Provider of M-commerce Solutions Products/Services," March 30, 2001, archived at http://web.archive.org/web/20010330224449/http://corp.cellmainia.com/products_services/mfinder.html, 2 pages.	☐
	3	Aol.com, "AOL Mobile," February, 23, 2001, archived at http://web.archive.org/web/20010223223036/http://www.aol.com/anywhere/mobile/mobile_demo.html/, 16 pages.	☐
	4	"Yahoo! Gets Even More Mobile - comp.dcom.telecom," Google Groups, at http://groups.google.com/group/comp.dcom.telecom/browse_thread/thread/9b0d195a707..., 1 page.	☐
	5	Yodlee.com, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0001554 and JDC0001555, 5 pages.	☐
	6	"First Personalized Portal for WAP and Internet Phones Launched By SmartRay Network," Google Groups, at http://groups.google.com/group/alt.cellular.sprintpcs/browse_thread/a3bd0275f122..., 6 pages.	☐
	7	J. FREIRE ET AL., "WebViews: Accessing Personalized Web Content and Services," Database Systems Research, Bell Labs, WWW10 Hong Kong, May 2001, 25 pages.	☐
	8	WAPmatic.de, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0005649, JDC0005652 through JDC0005684, JDC0005693 through JDC0005696, JDC0005700, JDC0005703 through JDC0005736, JDC0005741 through JDC0005745, JDC0005754, JDC0005756, and JDC0005811 through JDC0005857.	☐
	9	Wapjag.de, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0005651, JDC0005688, JDC0005689, and JDC0005968.	☐
	10	Wappy.to, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0005746 through JDC0005753.	☐
	11	M. KUSZPA, "room33 With My WAP Page," Maciej Kuszpa on Mobile Social Networks and Mobile Learning, 5 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	12	"room33.com Product Information," Ciao! from bing, 2 pages.	☐
	13	Mbasics.com, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0005859, JDC0005964, JDC0005967, JDC0005971 through JDC0005977, JDC0006005 and JDC0006069.	☐
	14	Hoiley.com, "Homepage," May 11, 2000, archived at http://web.archive.org/web/20000511091935/http://www.hoiley.com/, 1 page.	☐
	15	TagTag.com, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0006036, JDC0006041 through JDC0006045, JDC0006047, JDC0006051 through JDC0006057, and JDC0006071.	☐
	16	myWAP.Genie.de, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0006037 through JDC0006040, JDC0006048, JDC0006072 through JDC0006080, JDC0006084, and JDC0006087 through JDC0006093.	☐
	17	WAPdrive.com, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0006058 through JDC0006067.	☐
	18	Mpresence.com, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0006070, and JDC0006082 through JDC0006083.	☐
	19	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0000140, JDC0005755, JDC0005776, JDC0005808, JDC0005810, JDC0006094 through JDC0006110, JDC0006173, JDC0006827 through JDC0006999, and JDC0007342.	☐
	20	G.Q. HUANG et al., "Agent-based workflow management in collaborative product development on the Internet," Computer-Aided Design, 2000, pp. 133-144, vol. 32, Elsevier Science Ltd.	☐
	21	A. BHATTACHERJEE, "Management of emerging technologies: Experiences and lessons learned at US West," Information & Management, 1998, pp. 263-272, vol. 33, Elsevier Science B.V.	☐
	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.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	23	Bolt.com, "Info," archived at http://web.archive.org/web/20011203081541/www.bolt.com/info/default.asp	☐
	24	Peperonity.com, "Peperonity," archived at http://web.archive.org/web/20030330223112/http://peperpmity.com/	☐
	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.	☐
	30	Exhibit A 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, 131 pages.	☐
	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.	☐
	33	M. GIBBS, "All the news that's fit to RSS," NetworkWorld, February 25, 2002, p. 36.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	34	J. KOLARI ET AL., "Net in Pocket? Personal mobile access to web services," VTT Publications 464, Finland, April 2002, 145 pages.	☐
	35	PR NEWSWIRE, "Bolt Launches Robust WAP-Based Clubs & Search Tools; Bolt Expands Wireless Offerings - Teens and Marketers Benefit," April 16, 2001, 3 pages.	☐
	36	J. UDELL, "Hyperlinks matter," InfoWorld, May 20, 2002, pages 15-16.	☐
	37	R. VOGLES, "Ihre mobile Homepage," PC Pr@xis, August 2001, 6 pages (including translation).	☐
	38	Memorandum and Order in Wireless Ink Corporation v. Facebook Inc., et al., Case Nos. 10-CV-1841 and 11-CV-1751, August 29, 2013.	☐
	39	Judgment in Wireless Ink Corporation v. Facebook Inc., et al., Case Nos. 10-CV-1841 and 11-CV-1751, August 30, 2013.	☐
	40	UCP Morgen Products, "Mobileblog! TM - Blogging from Every Mobile Phone," http://www.ucpmorgen.com/products_mobileblog_en.html, pp. 1-3, 2003.	☐
	41	UCP Morgen News, "Mobileblog! TM - Taking Mobile Messaging to a Whole New Level," http://www.ucpmorgen.com/news_press-release-2003031701_en.html, pp. 1-2, 2003.	☐
	42	NewBay Software "FoneBlog V1 - A Website for Every Mobile Phone!," http://www.newbay.com/products_general.html, pp. 1-3, 2003.	☐
	43	NewBay Software "NewBay Software Announces World's First Blogging System for Mobile Network Operators," http://www.newbay.com/pr030101.html, pp. 1-3, 2003.	☐
	44	3TL - Mobile Internet, "Mobile Communities," http://www.3tl.com/MobileOperators/Communities.asp?CID=, 1 page, 2003.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	45	"Yahoo! Mobile," http://mobile.yahoo.com/, 2 pages, 2003.	☐
	46	Peperoni Mobile & Internet Software GmbH, "Mobile Community Services with Mobile Homepage Toolkit," http://en.peperoni.de/pep/produkte/inhalt_mobile.php3, pp. 1-2, 2003.	☐
	47	LittleWASP®, "What can LittleWASP do?," http:// www.littlewasp.com/features.html, 1 page, 2003	☐
	48	Blogger, "The Revolution will be Bloggerized," http:// www.blogger.com/about.pyra, pp. 1-3, 2003.	☐
	49	Mopilot.com, "Welcome to my.mopilot.com," http://my.mopilot.com/index.htm, 1 page, 2001.	☐
	50	Mbasics - Platform for Mobile Site Building, "Content Management," http:// www.mbasics.com/content_management.html, pp. 1-2, 2003.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/JUDE JEAN GILLES/	Date Considered	02/03/2020

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

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

The above non-patent literature references have been previously submitted in the parent cases.

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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	
	Filing Date	2018-02-06
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON8

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

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

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

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	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.	☐
	7	K. BINDER, "The Complete Idiot's Guide to Mac OS X," 2002, pp. 97-104 and 141-183, Alpha Books, United States of America.	☐
	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.	☐
	10	D. POGUE, "Mac OS X: The Missing Manual," 2002, pp. 181-204 and 433-452, Pogue Press/O'Reilly & Associates, Inc, United States of America.	☐
	11	T. STAUFFER, "Mastering Mac OS X," 2001, pp. 335-341, Sybex, United States of America.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	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.	☐
	16	BUSINESS WIRE, "America Online and AT&T Wireless Announce Innovative Mobile Services and Marketing Alliance," June 27, 2001, at http://www.thefreelibrary.com/America+Online+and+AT%26T+Wireless+Announce+Innovative+Mobile+Services...-a075947481, 3 pages.	☐
	17	BUSINESS WIRE, "America Online Delivers 'AOL Mobile' Services to AT&T Wireless Internet Ready Phones," September 5, 2000, at http://www.thefreelibrary.com/America+Online+Delivers+'AOL+Mobile'+Services+to+AT%26T+Wireless...-a064994434, 3 pages.	☐
	18	BUSINESS WIRE, "America Online to Offer Content and Features Through AT&T Wireless Services' Internet-Ready Phones," July 17, 2000, at http://www.thefreelibrary.com/America+Online+to+Offer+Content+and+Features+Through+AT%26T+Wireless...-a066877339, 3 pages.	☐
	19	BestStuff.com, "America Online Launches New AOL Anywhere Web Site," October 25, 2000, at http://www.beststuff.com/fromthewire/america-online-launches-new-aol-anywhere-web-s..., 2 pages.	☐
	20	BUSINESS WIRE, "Yahoo! And AT&T Wireless Services Team to Bring Yahoo! Everywhere to AT&T Customers," May 18, 2000, at http://www.thefreelibrary.com/Yahoo!+and+AT%26T+Wireless+Services+Team+to+Bri..., 2 pages.	☐
	21	M. GINTY, "Yahoo! Gets Even More Mobile," August 11, 1999, at http://www.internetnews.com/bus-news/article.php/180411/Yahoo-Gets-Even-More-Mob..., 2 pages.	☐
	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.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	23	J. NEWMAN, "The Next Yahoo?" Wireless Developer Network, accessed October 19, 2011 at http://www.wirelessdevnet.com/channels/wireless/features/nextyahoo.html, 2 pages.	☐
	24	2017-03-01PR 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.	☐
	25	FindArticles.com, "Smartray.com Offers Free Stock Quotes for Wireless Devices," February 2000, at http://findarticles.com/p/articles/mi_hb6452/is_2_11/ai_n28760296/, 3 pages.	☐
	26	PR NEWSWIRE, "smartRay.com Unveils Next Generation of Service," August 16, 2000, at http://www.thefreelibrary.com/smartRay.com+Unveils+Next+Generation+of+Service.-a064256981. 3 pages.	☐
	27	Federal Ministry of Education and Research (Germany) "Example of Start-Up: With Fiery Keenness: Peperoni," EXIST: University-based Start-Ups Status and Prospects, September 2001, page 24.	☐
	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.	☐
	32	DOW JONES BUSINESS NEWS, "AOL Offers Mobile Services to Sprint PCS Wireless-Web Users," June 15, 2000, 2 pages.	☐
	33	PR NEWSWIRE, "SmartRay.com and RestaurantMarket.com Strike Deal to Provide Wireless Bidding Alerts for Resturant Industry; Buyers and Sellers will Receive Instant Notifications on Their Mobile Phones, Pagers and PDAs," May 23, 2000, 2 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	34	BUSINESS WIRE, "Yahoo! Mobile Goes Live; New Yahoo! Service Enables Users to Get Their Yahoo! Everywhere," August 11, 1999, 2 pages.	☐
	35	BUSINESS WIRE, "Yahoo! Launches Yahoo! Local Info for Web-enabled Phones; Yahoo! Everywhere Provides Wireless Location-Based Directory to Consumers Across the United States," February 20, 2001, 2 pages.	☐
	36	DOW JONES BUSINESS NEWS, "Daily Update - Vivendi Says Decision On Seagram Takeover May Be Imminent," June 15, 2000, 3 pages.	☐
	37	PR NEWSWIRE, "Smartray.com Unveils Next Generation of Service; Version 2.0 Combines Easy-to-Use Features Improved Look and Enhanced Accessibility through Desktops and Mobile Devices," August 16, 2000, 2 pages.	☐
	38	PR NEWSWIRE, "smartRay.com Delivers Stock Quotes and Financial Information to Wireless Devices for Free!; SmartRay Network Inc. Will Use Advanced Technology to Send Personalized Financial information and News to Your Celluar Phone, Pager, or PDA," December 15, 1999. 2 pages.	☐
	39	D.F. GRAY, "America Online Upgrades PC Client Software, Offers Customizable Web Site," Enterprise Networking, November 13, 2000, 2 pages.	☐
	40	PR NEWSWIRE, "What's the Difference Between a Press Release and Lying in the Sun? When You Lie in the Sun, You Actually Get Red; Smart RAY.com Launches Wireless Entertainment Channel With 6 Unique Content Partners," July 27, 2000, 2 pages.	☐
	41	BUSINESS WIRE, "America Online Launches New AOL Anywhere Web Site; One-Stop, Customizable Site Offers Members Access to Popular AOL Features Anytime, Any Place," October 25, 2000. 2 pages.	☐
	42	J. ANGWIN, "E-Commerce (A Special Report): Business Plan You've Got...M-Commerce: How AOL is Positioning itself for the Wireless World," The Wall Street Journal, December 11, 2000, 3 pages.	☐
	43	C. PILLER, "The Cutting Edge: Focus on Technology; Connecting to Customers on the Move; Wireless: A Yahoo Executive Talks about How to Attract the Growing Number in U.S. Who Use Portable Devices to Access the Web," June 19, 2000, 3 pages.	☐
	44	BUSINESS WIRE, "GoAmerica Announces Agreement with America Online to Offer AOL Mobile Services Via Go. Web," August 15, 2001, 2 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	45	PR NEWSWIRE, "smartRay.com Signs Significant Wireless Partnerships with Nextel and Six Other Carriers; smartRay to Provide Nextel Online(SM) Wireless Internet Customers with On-Demand News and Information," July 5, 2000, 2 pages.	☐
	46	N. DASWANI, "Secure Wireless Aggregation," Yodlee, 36 pages.	☐
	47	Upoc.com, Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, Documents numbered JDC0000177, JDC0000542, JDC0000901, JDC0001546, JDC0001589, JDC0001590 JDC0001593, JDC0001804 through JDC0001819, JDC0001865 through JDC0001867, JDC0004470, JDC0005255, JDC0005697, JDC0005701, JDC0005861 through JDC0005866, JDC0005965, JDC0005963, JDC0005984 through JDC0006002, and JDC0006007 through JDC0006033.	☐
	48	Mobile.yahoo.com, "Overview," archived at http://web.archive.org/web/20010142701492 7/http://mobile.yahoo.com/phone/tour?.pv=overview&.pg=1&.ph=tp, 3 pages.	☐
	49	Aol.com, "Now You Can get AOL Anywhere - Even on Your Cell Phone!," archived at http://web.archive.org/web/20010124040 9/http://www.aol.com/anywhere/mobile/main.html, 8 pages.	☐
	50	M. CAGAN, "Product Strategy," Silicon Valley Product Group, October 4, 2000, at http://svpg.com/product-strategy/, 8 pages.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/JUDE JEAN GILLES/	Date Considered	02/03/2020

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

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

The above non-patent literature references have been previously submitted in the parent cases.

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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	
	Filing Date	2018-02-06
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON8

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

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

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

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	1	Memorandum and Order in Wireless Ink Corporation v. Facebook Inc., et al., Case Nos. 10 Civ. 1841 and 11 Civ. 1751, December 17, 2013.	☐
	2	Opening Brief for Plaintiff-Appellant Wireless Ink Corporation in Wireless Ink Corporation v. Google, Inc. et al., filed in the United States Court of Appeals for the Federal Circuit, Appeal No. 2013-1689, December 10, 2013.	☐
	3	LISA MOSKOWITZ, "GeoCities Becomes a Portal," PCWorld, Jul. 13, 1998, http://www.pcworld.com/article/7404/geocities_becomes_a_portal.html?tk=rel_news, 2 pages.	☐
	4	BUSINESS WIRE, INC., "Ground-Breaking Website & Portal Builder for Novices Unveiled - HotHomepages Poised for a Viral Take-Over of Free Web Market With Unmatched Features and Revenue Generators!", Jan. 17, 2001, 2 pages.	☐
	5	INTERNET WIRE, INC., "HotHomepages Launches 2.0 Release With Additional Features And New Robust Elements To The Company's Self-Service Web Site Builder," Nov. 2, 2001, 2 pages.	☐
	6	ED LOWE, "Untethered," Long Island Press, Jan. 13, 2005, http://www.longislandpress.com/2005/01/13/untethered/, 2 pages.	☐
	7	MARKET WIRE, INC., "Wireless Ink Enables Worldwide Mobile Publishing and Distribution for the Masses; Patent-Pending Technology Allows the Masses to Create and Build a Mobile Site in Minutes Which Is Distributed Globally Across Carrier Networks," Dec. 21, 2004, 2 pages.	☐
	8	KEN SCHACHTER, "Webslingers," Long Island Business News, July 4, 2003, http://www.mlg.com/news_events/newspaper/Webslingers.html, 2 pages.	☐
	9	PRIMEZONE MEDIA NETWORK, INC., "Maxplanet Enters Into Letter of Intent to Acquire Wireless Ink; New Maxplanet to Become Unique Value-Added Service Provider to Wireless Carriers, Entertainment Companies, and Brands," Apr. 29, 2004, 2 pages.	☐
	10	BRUCE BROWN, "Create Your Own Internet With Clickmarks," PC Magazine, Nov. 20, 2000, http://www.pcmag.com/article2/0,2817,34336,00.asp, 3 pages.	☐
	11	ELLEN JENSEN, "Clickmarks personal 'habitats' make any Web content wireless," Wireless Networks Online, Sep. 15, 2000, http://www.wirelessnetworksonoine.com/article.mvc/Clickmarks-personal-habitats-make-any-Web-con-0001, 3 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	12	UMAIR A. KHAN ET AL., U.S. Provisional Patent Application No. 60/209,873, filed Jun. 7, 2000, 37 pages.	☐
	13	UMAIR KHAN ET AL., U.S. Provisional Patent Application No. 60/283,775, filed Apr. 12, 2001, 51 pages.	☐
	14	Clickmarks Platform Architecture: White Paper, 6 pages.	☐
	15	PBI MEDIA, LLC, "Clickmarks Looks For Growth Impetus," Communications Today, Vol. 7, No. 221, Nov. 28, 2001, 1 page.	☐
	16	CHRISTY MULLIGAN, "Dialing for content: Content providers are learning how to cram value onto a four inch-square screen," Computer User, Vol. 19, No. 4, Apr. 1, 2001, 4 pages.	☐
	17	PR NEWSWIRE ASSOCIATION INC., "Clickmarks Brings Personalization & Mobilization Services to Chaitime.com, An Online Community Serving South Asians Worldwide; Service Will Increase Loyalty, Be Available From Wired & Wireless Devices," Oct. 10, 2000, 2 pages.	☐
	18	PR NEWSWIRE ASSOCIATION INC., "Clickmarks Selected 'Best of Show' for its Software Platform At Internet World; 'Wireless-Enabled Personal Habitat' Delivers Any Web Content to Any Device as Never Before," Nov. 6, 2000, 2 pages.	☐
	19	PR NEWSWIRE ASSOCIATION INC., "Clickmarks' Personal 'Habitats' Make Any Web Content Wireless; ASP's Web Personalization Service Automatically Feeds Web Content To PDAs and Web-Enabled Cell Phones, Whether or Not It Is Wireless-Ready," June 13, 2000, 2 pages.	☐
	20	MICHAEL SINGER, "New Vizzavi Portal On WAP Phones," InternetNews.com, Apr. 23, 2001, http://www.internetnews.coln/bus-news/article.php/749411/New-Vizzavi-Portal-On-WAP-Phones.htm, 1 page.	☐
	21	HEATHER FORSGREN WEAVER, "Clickmarks marries personalization with mobilization," Radio Comm. Report, Dec. 4, 2000, 2 pages.	☐
	22	UMAIR KHAN ET AL., U.S. Provisional Patent Application No. 60/283,804, filed Apr. 12, 2001, 68 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	23	BEN SAWYER AND DAVE GREELEY, "Creating Geocities Websites," Muska & Lipman Publishing, 1999, 357 pages.	☐
	24	BUD SMITH AND ARTHUR BEBAK, "Creating Web Pages For Dummies, 4th Ed.", IDG Books Worldwide, Inc., 1999, pages 73-126.	☐
	25	ADNAN M. AGBOATWALLA ET AL., U.S. Provisional Patent Application No. 60/340,405, filed Dec. 13, 2001, 121 pages.	☐
	26	UMAIR A. KHAN ET AL., U.S. Provisional Patent Application No. 60/210,160, filed June 7, 2000, 62 pages.	☐
	27	UMAIR A. KHAN ET AL., U.S. Provisional Patent Application No. 60/212,485, filed June 16, 2000, 32 pages.	☐
	28	UMAIR KHAN ET AL., U.S. Provisional Patent Application No. 60/283,781, filed Apr. 12, 2001, 44 pages.	☐
	29	UMAIR KHAN ET AL., U.S. Provisional Patent Application No. 60/283,873, filed Apr. 12, 2001, 53 pages.	☐
	30	QUINTON Y. ZONDERVAN ET AL., U.S. Provisional Patent Application No. 60/341,340, filed Dec. 14, 2001, 74 pages.	☐
	31	UMAIR A. KHAN ET AL., U.S. Provisional Patent Application No. 60/341,344, filed Dec. 14, 2001, 79 pages.	☐
	32	ALEX TSAKIRIS ET AL., U.S. Provisional Patent Application No. 60/185,350, filed Feb. 26, 2000, 20 pages.	☐
	33	REUVEN GAMZON, U.S. Provisional Patent Application No. 60/233,136, filed Sep. 18, 2000, 6 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	34	BRUCE BROWN, "Create Your Own Internet With Clickmarks," PC Magazine, Nov. 21, 2000, page 64.	☐
	35	Discovery Documents produced by Internet Archive regarding ClickMark in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of documents numbered JDC0010331-JDC0010505.	☐
	36	Discovery Documents produced by Internet Archive regarding ClickMark in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of documents numbered JDC0010518-JDC0010582, JDC0010587-JDC0010615, JDC0010622-JDC0010647, JDC0011882-JDC0011890, JDC0012051-JDC0012052, JDC0012057-JDC0012063, JDC0012070-JDC0012071, and JDC0012075.	☐
	37	Discovery Documents produced by Internet Archive regarding ClickMark in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of documents numbered UK00047, UK00122, UK00123 and UK00133.	☐
	38	Discovery Documents produced by Internet Archive regarding Yahoo! GeoCities in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, documents numbered JDC0010648-JDC0010657.	☐
	39	Discovery Documents produced by Internet Archive regarding Buzzed in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, documents numbered JDC0013173-JDC0013174, and JDC0013184.	☐
	40	Discovery Documents produced by Internet Archive regarding TagTag in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, documents numbered JDC0013175-JDC0013183.	☐
	41	Discovery Documents produced by Internet Archive regarding SantanaBuilder in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, documents numbered JDC0013185-JDC0013187.	☐
	42	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of support documentation containing documents numbered UKN1, UKN3, UKN5, UKN7, UKN8, UKN10, UKN11, UKN13-UKN16, UKN18-UKN21, UKN23, UKN25-UKN55, UKN57-UKN63, UKN65, UKN67-UKN69, UKN71-UKN93, UKN95-UKN97, UKN99-UKN103, UKN105-UKN108, UKN110-UKN126, UKN128-UKN143, UKN145, UKN147, UKN148, UKN150-UKN156, UKN158-UKN169, UKN171-UKN174 and UKN176-UKN179.	☐
	43	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of support documentation containing documents numbered UKN181, UKN182, UKN184, UKN185, UKN187-UKN189, UKN191, UKN192, UKN194-UKN196, UKN198, UKN200, UKN202, UKN204, UKN206, UKN214, UKN216, UKN218-UKN228, UKN230-UKN250, UKN252-UKN258, UKN260-UKN268, UKN270-UKN296, UKN298-UKN329, UKN331-UKN353, UKN355-UKN363 and UKN365-UKN371.	☐
	44	Discovery Documents produced in Wireless Ink Corporation v. Facebook Inc. et al., Case Nos. 10-CV-1841 and 11-CV-1751, compilation of support documentation titled UKNM3 containing documents numbered UKN373-UKN390, UKN392, UKN393, UKN395, UKN397, UKN404-UKN407, UKN409-UKN432, UKN434, UKN436-UKN439, UKN441, UKN442, UKN444-UKN446, UKN449-UKN453, and UKN455-UKN457.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	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.	☐
	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.	☐
	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.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/JUDE JEAN GILLES/	Date Considered	02/03/2020

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

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

The above non-patent literature references have been previously submitted in the parent cases.

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

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

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

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	8289864	B2	2012-10-16	Dolganow et al.	
	2	8135801	B2	2012-03-13	Harper et al.	
	3	7908342	B2	2011-03-15	Harper et al.	
	4	7802207	B2	2010-09-21	Agboatwalla et al.	
	5	7599983	B2	2009-10-06	Harper et al.	
	6	7590681	B1	2009-09-15	Chang et al.	
	7	7574486	B1	2009-08-11	Y. Cheng et al.	
	8	7574208	B2	2009-08-11	Hanson et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	9	7535492	B2	2009-05-19	Kahn et al.	
	10	7526718	B2	2009-04-28	Samadani et al.	
	11	7487204	B2	2009-02-03	Asthana et al.	
	12	7475346	B1	2009-01-06	Bullock et al.	
	13	7444156	B2	2008-10-28	Boss et al.	
	14	7412518	B1	2008-08-12	Duigou et al.	
	15	7392308	B2	2008-06-24	Aufricht et al.	
	16	7380250	B2	2008-05-27	Schechter et al.	
	17	7277927	B2	2007-10-02	Rensin et al.	
	18	7263547	B2	2007-08-28	Kloba et al.	
	19	7203948	B2	2007-04-10	Mukundan et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	20	7191220	B2	2007-03-13	Ohwa	
	21	7158625	B2	2007-01-02	Casaccia	
	22	7136645	B2	2006-11-14	Hanson et al.	
	23	7092370	B2	2006-08-15	Jiang et al.	
	24	7072967	B1	2006-07-04	Saulpaugh et al.	
	25	7058510	B2	2006-06-06	Kelly et al.	
	26	7051045	B2	2006-05-23	Cirinna et al.	
	27	7024464	B1	2006-04-04	Lusher et al.	
	28	7020845	B1	2006-03-28	Gottfurcht et al.	
	29	7016899	B1	2006-03-21	Stern et al.	
	30	7003546	B1	2006-02-21	Cheah	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	31	6993575	B2	2006-01-31	Abkowitz et al.	
	32	6943825	B2	2005-09-13	Silvester	
	33	6920488	B1	2005-07-19	Le Pennec et al.	
	34	6914626	B2	2005-07-05	Squibbs	
	35	6879965	B2	2005-04-12	Fung et al.	
	36	6871220	B1	2005-03-22	Rajan et al.	
	37	6870830	B1	2005-03-22	Schuster et al.	
	38	6834306	B1	2004-12-21	Tsimelzon	
	39	6807574	B1	2004-10-19	Partovi et al.	
	40	6779042	B1	2004-08-17	Kloba et al.	
	41	6779019	B1	2004-08-17	Mousseau et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	42	6769009	B1	2004-07-27	Reisman	
	43	6763388	B1	2004-07-13	Tsimelzon	
	44	6760046	B2	2004-07-06	l'Anson et al.	
	45	6757530	B2	2004-06-29	Rouse et al.	
	46	6738950	B1	2004-05-18	Barnett	
	47	6691158	B1	2004-02-10	Douvikas et al.	
	48	6670968	B1	2003-12-30	Schilit et al.	
	49	6668353	B1	2003-12-23	Yurkovic	
	50	6658464	B2	2003-12-02	Reisman	
	51	6628934	B2	2003-09-30	Rosenberg et al.	
	52	6594347	B1	2003-07-15	Calder et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	53	6560639	B1	2003-05-06	Dan et al.	
	54	6553412	B1	2003-04-22	Kloba et al.	
	55	6546397	B1	2003-04-08	Rempell	
	56	6525768	B2	2003-02-25	Obradovich	
	57	6496849	B1	2002-12-17	Hanson et al.	
	58	6493758	B1	2002-12-10	McLain	
	59	6462778	B1	2002-10-08	Abram et al.	
	60	6453361	B1	2002-09-17	Morris	
	61	6445777	B1	2002-09-03	Clark	
	62	6438575	B1	2002-08-20	Kahn et al.	
	63	6421717	B1	2002-07-16	Kloba et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	64	6363392	B1	2002-03-26	Halstead et al.	
	65	6356905	B1	2002-03-12	Gershman et al.	
	66	6356543	B2	2002-03-12	Hall et al.	
	67	6343302	B1	2002-01-29	Graham	
	68	6313835	B1	2001-11-06	Gever et al.	
	69	6311058	B1	2001-10-30	Wecker et al.	
	70	6304746	B1	2001-10-16	Fascenda et al.	
	71	6282362	B1	2001-08-28	Murphy et al.	
	72	6268851	B1	2001-07-31	Bricklin et al.	
	73	6263352	B1	2001-07-17	Cohen	
	74	6233608	B1	2001-05-15	Laursen et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	75	6199157	B1	2001-03-06	Dov et al.	
	76	6199099	B1	2001-03-06	Gershman et al.	
	77	6199077	B1	2001-03-06	Inala et al.	
	78	6167253		2000-12-26	Farris et al.	
	79	6065120		2000-05-16	Laursen et al.	
	80	6035119		2000-03-07	Massena et al.	
	81	6020884		2000-02-01	MacNaughton et al.	
	82	5983227		1999-11-09	Nazem et al.	
	83	5960074		1999-09-28	Clark	
	84	5945989		1999-08-31	Freishtat et al.	
	85	5902347		1999-05-11	Backman et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	86	5870552		1999-02-09	Dozier et al.	
	87	5768640		1998-06-16	Takahashi et al.	
	88	5727156		1998-03-10	Herr-Hoyman et al.	
	89	5712679		1998-01-27	Coles	
	90	5450344		1995-09-12	Woo et al.	
	91	5267042		1993-11-30	Tsuchiya 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	20110296326	A1	2011-12-01	Reid et al.	
	2	20110138297	A1	2011-06-09	Harper et al.	
	3	20070073845	A1	2007-03-29	Reisman	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	4	20050210101	A1	2005-09-22	Janik	
	5	20050177645	A1	2005-08-11	Dowling et al.	
	6	20040204071	A1	2004-10-14	Bahl et al.	
	7	20040123131	A1	2004-06-24	Zacks et al.	
	8	20040015567	A1	2004-01-22	Ziebold et al.	
	9	20030202104	A1	2003-10-30	Werner	
	10	20030184793	A1	2003-10-02	Pineau	
	11	20030156208	A1	2003-08-21	Obradovich	
	12	20030117436	A1	2003-06-26	Kautto-Koivula et al.	
	13	20030115288	A1	2003-06-19	Ljubicich et al.	
	14	20030105812	A1	2003-06-05	Flowers, JR. et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	15	20030063770	A1	2003-04-03	Svendsen et al.	
	16	20030004984	A1	2003-01-02	Chou	
	17	20030013492	A1	2003-01-16	Bokhari	
	18	20030040920	A1	2003-02-27	Adams et al.	
	19	20030052912	A1	2003-03-20	Bowman, JR. et al.	
	20	20020194502	A1	2002-12-19	Sheth et al.	
	21	20020194195	A1	2002-12-19	Fenton et al.	
	22	20020194194	A1	2002-12-19	Fenton et al.	
	23	20020180764	A1	2002-12-05	Gilbert et al.	
	24	20020174191	A1	2002-11-21	Robertson et al.	
	25	20020165988	A1	2002-11-07	Khan et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	26	20020156702	A1	2002-10-24	Kane	
	27	20020154213	A1	2002-10-24	Sibyama et al.	
	28	20020129094	A1	2002-09-12	Reisman	
	29	20020120779	A1	2002-08-29	Teeple et al.	
	30	20020120757	A1	2002-08-29	S.B. Sutherland et al.	
	31	20020116534	A1	2002-08-22	Teeple	
	32	20020105539	A1	2002-08-08	Gamzon et al.	
	33	20020094787	A1	2002-07-18	Avnet et al.	
	34	20020091762	A1	2002-07-11	Sohn et al.	
	35	20020090934	A1	2002-07-11	Mitchelmore	
	36	20020087601	A1	2002-07-04	Anderson et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	37	20020073149	A1	2002-06-13	Young	
	38	20020062397	A1	2002-05-23	Chang et al.	
	39	20020060246	A1	2002-05-23	Gobburu et al.	
	40	20020059397	A1	2002-05-16	Feola et al.	
	41	20020057678	A1	2002-05-16	Jiang et al.	
	42	20020054090	A1	2002-05-09	Silva et al.	
	43	20020052895	A1	2002-05-02	Keating	
	44	20020049831	A1	2002-04-25	Platner et al.	
	45	20020049777	A1	2002-04-25	Terayama et al.	
	46	20020047895	A1	2002-04-25	Bernardo et al.	
	47	20020047798	A1	2002-04-25	Platt	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	48	20020046353	A1	2002-04-18	Kishimoto	
	49	20020044690	A1	2002-04-18	Burgess	
	50	20020035609	A1	2002-03-21	Lessard et al.	
	51	20020032785	A1	2002-03-14	Britt, JR.	
	52	20020029252	A1	2002-03-07	Segan et al.	
	53	20020024536	A1	2002-02-28	Kahan et al.	
	54	20020021794	A1	2002-02-21	Kemppainen	
	55	20020018078	A1	2002-02-14	Khan et al.	
	56	20020016801	A1	2002-02-07	Reiley et al.	
	57	20010054087	A1	2001-12-20	Flom et al.	
	58	20010051979	A1	2001-12-13	Aufricht et al.	

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	59	20010044824	A1	2001-11-22	Hunter et al.	
	60	20010039571	A1	2001-11-08	Atkinson	
	61	20010027422	A1	2001-10-04	Brandrud	
	62	20010034765	A1	2001-10-25	Bimson et al.	
	63	20010034746	A1	2001-10-25	Tsakiris et al.	
	64	20010015756	A1	2001-08-23	Wilcock et al.	
	65	20010012281	A1	2001-08-09	Hall et al.	

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

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	GB2249202	GB	A	1992-04-29			☐
	2	0054178	WO	A2	2000-09-14			☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	3	0101586	WO	A2	2001-01-04			☐
	4	0116781	WO	A1	2001-03-08			☐
	5	10-2001-0025658	KR	A	2001-04-06			☐
	6	0135658	WO	A1	2001-05-17			☐
	7	0161560	WO	A1	2001-08-23			☐
	8	0180091	WO	A2	2001-10-25			☐
	9	0182103	WO	A1	2001-11-01			☐
	10	0182139	WO	A1	2001-11-01			☐
	11	0182621	WO	A1	2001-11-01			☐
	12	2001-0094912	KR	A	2001-11-03			☐
	13	0190873	WO	A1	2001-11-29			☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	14	1132847	EP	A2	2001-09-12			☐
	15	0206981	WO	A1	2002-01-24			☐
	16	2002-0006722	KR	A	2002-01-26			☐
	17	0217136	WO	A1	2002-02-28			☐
	18	0219153	WO	A1	2002-03-07			☐
	19	0231624	WO	A2	2002-04-18			☐
	20	1213883	EP	A1	2002-06-12			☐
	21	JP3910794	JP	B2	2007-04-25			☐

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

NON-PATENT LITERATURE DOCUMENTS

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

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

EXAMINER SIGNATURE			
Examiner Signature	/JUDE JEAN GILLES/	Date Considered	02/03/2020

*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 foreign references have been previously submitted in the parent cases.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

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

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

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	6836466	B1	2004-12-28	Kant 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	20020133448	A1	2002-09-19	McGarry et al.	
If you wish to add additional U.S. Published Application citation information please click the Add button.						

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

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	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/	Date Considered	02/03/2020

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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	
	Filing Date	2018-02-06
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON8

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

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

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

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	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.	☐
	9	A. NEIBAUER, "How to Do Everything with Yahoo!," 2000, pp. cover page, copyright page, 3-20, 21-54, 467-491, Osborne McGraw Hill, Berkely, California.	☐
	10	B. HILL, Yahoo! for Dummies, 2001, pp. cover page,copyright page, 23-38, 57-78, 93-101, 243-262; 2nd edition, IDG Books Worldwide, Inc., Foster City, California.	☐
	11	A.M. AGBOATWALLA ET AL., U.S. Provisional Patent Application No. 60/340,405, Filed December 13, 2001.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	12	R. HOEG, "Virtual Accordian Clubs from Yahoo!(Minnesota Accordion Club)," posted on the Internet through Usenet on December 1, 1998, copy pulled from google Groups (http://groups.google.com/group/rec.music.makers.squeezebox/msg/bad62e373462c6a6).	☐
	13	D. FOX ET AL., "Web Publisher's Construction Kit with HTML 3.2, pp. cover page, copyright page15-16, The Waite Group, Inc., Corte Madera, California.	☐
	14	A. FREEDMAN, The Computer Glossary: The Complete Illustrated Dictionary, 2001, pp. cover page, copyright page, 437-438, 9th edition, AMACOM American Management Association, New York, New York.	☐
	15	J. DEMPSEY, "UseNet Contains E-History," The Post-Standard, December 26, 2001, Syracuse, NY.	☐
	16	B. HILL, "Yahoo! for Dummies," http://catalog.dummies.com/product.asp?isbn=0764507621, Internet Archive, April 6, 2001.	☐
	17	Copyright Recordation, "Yahoo! for Dummies," http://cocatalog.loc.gov/, United States Copyright Office.	☐
	18	K. MALY ET AL., "Personalized Portal for Wireless Devices," Old Dominion Univeristy Dept. of Computer Science Technical Report TR_2000_07, Nov. 7, 2000, 9 pages.	☐
	19	G. ROSSI ET AL., "Desigining Personalized Web Applications," Proceedings of the Tenth International World Wide Web Conference (WWW10), Hong Kong, May 2001, 4 pages.	☐
	20	C-H.H. RAO ET AL., "iMobile: a Proxy-Based Platform for Mobile Services," Proceedings of the First Workshop on Wireless Mobile Internet (WMI '01), Rome, Italy, July 2001, 9 pages.	☐
	21	G. SAMARAS ET AL., "A Flexible Personalization Architecture for Wireless Internet Based on Mobile Agents," Proceedings of the Sixth East-European Conference on Advances in Databases and Information Systems (ADBIS 2002) Bratislava. Slovakia, September 2002, 14 pages.	☐
	22	C.R. ANDERSON ET AL., "Personalizing Web Sites for Mobile Users," Proceedings of the Tenth International World Wide Web Conference (WWW10), Hong Kong, May 2001, 11 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	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.	☐
	24	P. BRUSILOVSKY., "Adaptive Hypermedia," User Modeling and User-Adaptive Interaction, 2001, pp. 87-110, vol. 11, Kluwer Academic Publishers, Netherlands.	☐
	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.	☐
	26	J. FREIRE ET AL. "Web Views: Accessing Personalized Web Content and Services" Proceedings of the Tenth International World Wide Web Conference (WWW10), Hong Kong, May 2001, 11 pages.	☐
	27	R. HULL ET AL., "Have it Your Way: Personalization of Network-Hosted Services," Proceedings of the 19th British Conference on Databases (BNCOD 19), Sheffield, UK, July 2002, 10 pages.	☐
	28	N.M. SADEH ET AL. "MyCampus: An Agent-Based Environment for Context-Aware Mobile Services," Proceedings of the Workshop on Ubiquitous Agents on Embedded, Wearable and Mobile Devices, First International Joint Conference on Autonomous Agents & Multiagent Systems, Bologna, Italy, July 2002, 3 pages.	☐
	29	A. TSALGATIDOU ET AL., "Business Models and Transactions in Mobile Electronic Commerce: Requirements and Properties," Computer Networks, 2001, pp. 221-236, vol. 37, Elsevier Science B.V.	☐
	30	A. SCHMIDT ET AL., "WAP-Designing for Small User Interfaces," Extended Abstracts, Conference on Human Factors in Computing Systems (CHI 2000), Hague, Netherlands, April 2000, pp. 187-188.	☐
	31	N. DASWANI ET AL., "Secure Wireless Aggregation," RSA Conference 2001, San Francisco, CA, April 2001, 10 pages.	☐
	32	W. SHI ET AL., "CONCA: An Architecture for Consistent Nomadic Content Access" Proceedings of the Workshop on Caching, Coherence, and Consistency (WC3 '01), Sorrento, Italy, June 2001, 10 pages.	☐
	33	R. HAN ET AL. "WebSplitter: A Unified XML Framework for Multi-Device Collaborative Web Browsing," Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW) 2000, Philadelphia, Pennsylvania, December 2000, 10 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	34	U. FAROOQ ET AL., "M-Education: Bridging the Gap of Mobile and Desktop Computing," Proceedings of the IEEE International Workshop on Wireless and Mobile Technologies in Education (WMTE '02), Sweden, August 2002, 4 pages.	☐
	35	U. FAROOQ ET AL., "MOOsburg : Moving Towards a Wireless Virtual Community," Proceedings of the 2002 International Conference on Wireless Networks (ICWN 2002), Las Vegas, Nevada, June 2002, 4 pages.	☐
	36	J. FREIRE, "Using Wrappers for Device Independent Web Access: Opportunities Challenges and Limitations," Extended Abstract Presented at Portland State University, Portland Oregon, February 2003, 12 pages.	☐
	37	C. HILLEBRAND ET AL, "Mobile Communities - Extending Online Communities into the Real World," Proceeding of Mobile and Collaborative Business 2002, Germany, 2002, 12 pages.	☐
	38	T. HUYNH, "Developing WAP Services with Allaire's ColdFusion, " Master's Thesis In Computer Science Final Report, The Royal Institute of Technology, Stockholm, July 2000, 59 pages.	☐
	39	S-T. CHENG ET AL., "A New Framework for Mobile Web Services," Proceedings of of the 2002 Symposium on Applications and the Internet (SAINT '02w), Japan, January 2002, 5 pages.	☐
	40	Z. LEI ET AL., "Context-Based Media Adaptations in Pervasive Computing," Canadian Conference on Electrical and Computer Engineering, Toronto, Ontario, Canada, May 2001, 7 pages.	☐
	41	V. ANUPAM ET AL., "Personalizing the Web Using Site Descriptions," Proceedings of the Tenth International Workshop on Database and Expert Systems Applications, Florence, Italy, 1999, 7 pages.	☐
	42	R. BARTA ET AL., "Syndication with JML," Proceedings of the 2000 ACM Symposium on Applied Computing (SAC '00), March 2000, pp. 962-970 vol. 2, Como ,Italy.	☐
	43	P. BELLAVISTA ET AL., "A Mobile Agent Infrastructure for Terminal, User and Resource Mobility," 2000 IEEE/IFIP Network Operations and Management Symposium (NOMS), Honolulu, Hawaii, April 2000, 14 pages.	☐
	44	Transcript of Claim Construction Hearing, Wireless Ink Corporation v. Facebook, Inc., Case No. 11-CV-1751 (PCK), S. D.N.Y., Nov. 9, 2011, 50 pages.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	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.	☐
	46	D.C. BERNHOLDT ET AL., "Tools for Handheld Supercomputing: An Assessment of the Wireless Application Protocol (WAP)," ERDC PET project Technical Report, May 30, 2000, 32 pages.	☐
	47	S. HOCHSTETLER ET AL., "Introducing Tivoli Personalized Services Manager 1.1," IBM Redbooks, June 2001, 340 pages.	☐
	48	"Blah! - The Company," http:// www.blah.com/corporate/company/index.htm, 1 page, 2003.	☐
	49	"About Upoc," http:// www.upoc.com/about.jsp, 1 page, 2002.	☐
	50	"Homestead - Your Complete Web Site Building & Hosting Solution," http:// www.homesteatd.com, 2 pages, 2003.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/JUDE JEAN GILLES/	Date Considered	02/03/2020

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

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

The above non-patent literature references have been previously submitted in the parent cases.

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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	
	Filing Date	2018-02-06
	First Named Inventor	David Walker Harper
	Art Unit	TBA
	Examiner Name	TBA
	Attorney Docket Number	1018-2 CON8

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

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

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

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

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	1	Decision of the United States Court of Appeals for the Federal Circuit in Wireless Ink Corporation v. Google Inc. et al. and Wireless Ink Corporation v. Facebook Inc. et al., Nos. 2013-1683 and 2013-1684, 2 pages, July 16, 2014.	☐
	2	Decision of the Patent Trial and Appeal Board in Facebook, Inc., Requester v. Wireless Ink Corp., Patent Owner, Appeal No. 2014-007363, Reexamination Control No. 95/001,989, October 30, 2014, 15 pages.	☐
	3	Record of Oral Hearing Before the Patent Trial and Appeal Board in Facebook, Inc., Requester v. Wireless Ink Corp., Patent Owner, Appeal 2014-007363, Reexamination Control No. 95/001,989, October 1, 2014, 20 pages.	☐
	4	Brief of Appellee Facebook, Inc., filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, May 14, 2015, 54 pages.	☐
	5	Reply Brief for Appellant Wireless Ink Corporation, filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, May 29, 2015, 35 pages.	☐
	6	Audio Recording of the Oral Argument in Wireless Ink Corporation v. Facebook, Inc., No. 2015-1299, before the United States Court of Appeals for the Federal Circuit, October 7, 2015, available at: http://www.cafc.uscourts.gov/oral-argument-recordings/search/audio.html?title=&field_case_number_value=15-1299&field_date_value2%5Bvalue%5D%5Bdate%5D=2015-10-07.	☐
	7	Decision of the United States Court of Appeals for the Federal Circuit in Wireless Ink Corporation v. Facebook, Inc., No. 2015-1299, October 9, 2015, 2 pages.	☐
	8	Corrected Opening Brief for Appellant Wireless Ink Corporation filed in Wireless Ink Corporation v. Facebook, Inc., Appeal to the United States Court of Appeals for the Federal Circuit, No. 2015-1299, April 2, 2015, 141 pages.	☐
	9	YAHOO! INC., "Yahoo! Clubs: Members' Guide Help," available at http://web.archive.org/web/19990508083127/http://help.yahoo.com/help/clubs/cmemb/, archived May 8, 1999, 1 page.	☐
	10	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help," available at http://web.archive.org/web/20010417055544/http://help.yahoo.com/help/clubs/cmemb, archived April 17, 2001, 1 page.	☐
	11	YAHOO! INC., "Yahoo! Clubs: Members' Guide: Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/19990508114903/http://help.yahoo.com/help/clubs/cmemb/cmemb-07.html, archived May 8, 1999, 1 page.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	12	YAHOO! INC., "Yahoo! Clubs: Member's Guide Help 'Inviting Someone to Join a Club'," available at http://web.archive.org/web/20010413162015/http://help.yahoo.com/help/us/clubs/cmemb/cmemb-07.html, archived April 13, 2001, 1 page.	☐
	13	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help," available at http://web.archive.org/web/19981202150201/http://help.yahoo.com/help/clubs/cfound/, archived December 2, 1998, 1 page.	☐
	14	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help," available at http://web.archive.org/web/20010331090631/http://help.yahoo.com/help/clubs/cfound, archived March 31, 2001, 1 page.	☐
	15	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Creating a Club'," available at http://web.archive.org/web/19981203045133/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived December 3, 1998, 1 page.	☐
	16	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Creating a Club'," available at http://web.archive.org/web/20010331093528/http://help.yahoo.com/help/clubs/cfound/cfound-09.html, archived March 31, 2001, 1 page.	☐
	17	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/19981205214559/http://help.yahoo.com/help/clubs/cfound/cfound-01.html, archived December 5, 1998, 1 page.	☐
	18	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Inviting Other Members to Join Your Club'," available at http://web.archive.org/web/20010331094343/http://help.yahoo.com/help/us/clubs/cfound/cfound-01.html, archived March 31, 2001, 1 page.	☐
	19	YAHOO! INC., "Yahoo! Clubs: Founders' Guide: Help 'Deleting a Member'," available at http://web.archive.org/web/19981205221807/http://help.yahoo.com/help/clubs/cfound/cfound-05.html, archived December 5, 1998, 1 page.	☐
	20	YAHOO! INC., "Yahoo! Clubs: Founder's Guide Help 'Deleting a Member'," available at http://web.archive.org/web/20010413165744/http://help.yahoo.com/help/us/clubs/cfound/cfound-05.html, archived April 13, 2001, 1 page.	☐
	21	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/19990418010954/http://help.yahoo.com/help/clubs/clubs-06.html, archived April 18, 1999, 1 page.	☐
	22	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010331073311/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived March 31, 2001, 1 page.	☐

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

	23	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'Club Rules'," available at http://web.archive.org/web/20010413155804/http://help.yahoo.com/help/us/clubs/clubs-06.html, archived April 13, 2001, 1 page.	☐
	24	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'How Do I Join a Club?'," available at http://web.archive.org/web/19990127221107/http://help.yahoo.com/help/clubs/clubs-04.html, archived January 27, 1999, 1 page.	☐
	25	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'How Do I Join a Club?'," available at http://web.archive.org/web/20010413121150/http://help.yahoo.com/help/us/clubs/clubs-04.html, archived April 13, 2001, 1 page.	☐
	26	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'What's the Difference Between a Listed and an Unlisted Club?'," available at http://web.archive.org/web/19981201045331/http://help.yahoo.com/help/clubs/clubs-03.html, archived December 1, 1998, 1 page.	☐
	27	YAHOO! INC., "Yahoo! Clubs: Clubs Help 'What's the Difference Between a Listed and an Unlisted Club?'," available at http://web.archive.org/web/20010331071614/http://help.yahoo.com/help/us/clubs/clubs-03.html, archived March 31, 2001, 1 page.	☐
	28	YAHOO! INC., "Yahoo! Clubs: Clubs: Help 'What's the Difference Between a Founder and a Member?'," available at http://web.archive.org/web/19990127231400/http://help.yahoo.com/help/clubs/clubs-05.html, archived January 27, 1999, 1 page.	☐
	29	JIM LYNCH, "Netscape Moves in on Microsoft", PC Magazine, December 15, 1998, pages 60-61.	☐

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

EXAMINER SIGNATURE

Examiner Signature	/JUDE JEAN GILLES/	Date Considered	02/03/2020

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

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

The above non-patent literature references have been previously submitted in the parent cases.

EFS Web 2.1.17

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

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

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/889,781	Filing Date 02/06/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	05/07/2020	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 21	Minus	** 22	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0		x $230 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

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

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

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

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

Electronic Patent Application Fee Transmittal

Application Number:	15889781
Filing Date:	06-Feb-2018
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Patrick G. Murray
Attorney Docket Number:	1018-2 CON8

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	2202	2	50	100
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**100**

Electronic Acknowledgement Receipt

EFS ID:	39384866
Application Number:	15889781
International Application Number:	
Confirmation Number:	1070
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Patrick G. Murray
Filer Authorized By:	
Attorney Docket Number:	1018-2 CON8
Receipt Date:	07-MAY-2020
Filing Date:	06-FEB-2018
Time Stamp:	21:31:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$100
RAM confirmation Number	E202057L32043476
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	1018-2CON8_AM1.pdf	103119 66cb32277bdac115cf1c1afc3c701c38e4d31542	no	7
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30650 e7848ccfd3845087d99275893ba160e6966b0809	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	133769		

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application

Applicant:	Engagelogic Corporation
Inventor(s):	David Walker Harper et al.
Docket No.:	1018-2 CON8
Serial No.:	15/889,781
Filing Date:	February 6, 2018
Group:	2447
Examiner:	Jude Jean Gilles
Title:	Method, Apparatus and System for Management of Information Content for Enhanced Accessibility over Wireless Communication Networks

---

AMENDMENT AND RESPONSE TO OFFICE ACTION

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

Sir:

In response to the non-final Office Action dated February 7, 2020, Applicant respectfully requests reconsideration of the above-identified application in view of the amendments and remarks herein.

IN THE CLAIMS

1-20. (Canceled)

21. (New) A method for managing information content in a data communication network, the method comprising the steps of:

providing content management resources at a first uniform resource locator hosted at a first set of one or more servers and accessible to a user of the data communication network, the content management resources being configured to permit the user to designate data from one or more data sources external to the first set of one or more servers;

uploading external data to a second set of one or more servers for use in the data communication network;

reformatting the external data for mobile device use; and

automatically generating mobile resources at a location different from the first uniform resource locator, the mobile resources being accessible independent of the content management resources via one or more mobile devices, the mobile resources automatically including the reformatted external data from a third set of one or more servers in the data communication network.

22. (New) The method of claim 21 wherein the second set of one or more servers and the third set of one or more servers are the same.

23. (New) The method of claim 21 wherein at least one of the servers in the second set of servers is also one of the servers in the third set of one or more servers.

24. (New) The method of claim 21 wherein at least one of the one or more external data sources comprises a database source.

25. (New) The method of claim 21 wherein at least one of the one or more external data sources comprises a file source.

26. (New) The method of claim 21 wherein at least one of the one or more external data sources comprises a device-captured data source.

27. (New) The method of claim 26 wherein device-captured data from the device-captured data source comprises one or more digital photographs.

28. (New) The method of claim 21 wherein the content management resources allow the user to select the one or more external data sources from a listing of a plurality of external data sources, and wherein the mobile resources include data from user-selected ones of the plurality of external data sources but do not include data from ones of the plurality of external data sources not selected by the user.

29. (New) The method of claim 21 wherein the content management resources permit the user to enter a message, and wherein the mobile resources automatically include the entered message.

30. (New) The method of claim 21 wherein the content management resources are configured to receive location information from at least a given one of the one or more mobile devices and to process at least a portion of the reformatted external data from at least a designated one of the one or more external data sources based at least in part on the received location information.

31. (New) The method of claim 30 wherein the given mobile device comprises a GPS-based navigation device.

32. (New) 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 data communication network, wherein said executable program code when executed by a processing element implements the steps of:

providing content management resources at a first uniform resource locator hosted at a first set of one or more servers and accessible to a user of the data communication network, the content management resources being configured to permit the user to designate data from one or more data sources external to the first set of one or more servers;

uploading external data to a second set of one or more servers for use in the data communication network;

reformatting the external data for mobile device use; and

automatically generating mobile resources at a location different from the first uniform resource locator, the mobile resources being accessible independent of the content management resources via one or more mobile devices, the mobile resources automatically including the reformatted external data from a third set of one or more servers in the data communication network.

33. (New) An apparatus for use in managing information content in a data communication network, the apparatus comprising:

a first set of one or more servers hosting content management resources at a first uniform resource locator and accessible to a user of the data communication network, the content management resources being configured to permit the user to designate data from one or more data sources external to the first set of one or more servers;

a second set of one or more servers configured to receive uploaded external data for use in the data communication network;

one or more processors coupled to a memory configured to reformat the external data for mobile device use; and

a third set of one or more servers configured to automatically generate mobile resources at a location different from the first uniform resource locator, the mobile resources being accessible independently of the content management resources via one or more mobile devices, the mobile resources automatically including the reformatted external data from the third set of one or more servers in the data communication network.

34. (New) The apparatus of claim 33 wherein at least one of the one or more external data sources comprises a database source.

35. (New) The apparatus of claim 33 wherein at least one of the one or more external data sources comprises a file source.

36. (New) The apparatus of claim 33 wherein at least one of the one or more external data sources comprises a device-captured data source.

37. (New) The apparatus of claim 36 wherein device-captured data from the device-captured data source comprises one or more digital photographs.

38. (New) The apparatus of claim 33 wherein the content management resources allow the user to select the one or more external data sources from a listing of a plurality of external data sources, and wherein the mobile resources include data from user-selected ones of the plurality of external data sources but do not include data from ones of the plurality of external data sources not selected by the user.

39. (New) The apparatus of claim 33 wherein the content management resources permit the user to enter a message, and wherein the mobile resources automatically include the entered message.

40. (New) The apparatus of claim 33 wherein the third set of one or more servers automatically generating the mobile resources have access to location-based information from the one or more mobile devices.

41. (New) The apparatus of claim 40 wherein the third set of one or more servers are configured to process at least a portion of the reformatted external data from at least a designated

one of the one or more external data sources based at least in part on the location-based information from the one or more mobile devices.

42. (New) The apparatus of claim 40 wherein the location-based information from a given one of the one or more mobile devices comprises location-based information from a GPS-based navigation device.

REMARKS

The present application was filed on February 6, 2018 with claim 1-20. The present application claims the priority of U.S. Provisional Application Serial No. 60/389,430, filed June 18, 2002, through a number of continuation applications.

Claims 1-20 are rejected on the ground of nonstatutory double patenting over claims 1-20 of U.S. Patent No. 9,922,348 (hereinafter "the '348 patent").

In this response, Applicant cancels claims 1-20 and adds new claims 21-42.

Applicant respectfully submits that the nonstatutory double patenting rejection is moot in view of the cancelation of claims 1-20. Moreover, new claims 21-42 are believed to be patentably distinct over claims 1-22 of the '578 patent.

In view of the above, Applicant respectfully submits that the claims as amended are in condition for allowance, and respectfully requests withdrawal of the present rejections.

Respectfully submitted,

/Joseph B. Ryan/

Date: May 7, 2020

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

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 07/13/2020
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JEAN GILLES, JUDE	
ART UNIT	PAPER NUMBER
2447	

DATE MAILED: 07/13/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/889,781	02/06/2018	David Walker Harper	1018-2 CON8	1070

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	$500	$0.00	$0.00	$500	10/13/2020

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

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

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

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

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

PTOL-85 (Rev. 02/11)

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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 07/13/2020
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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/889,781	02/06/2018	David Walker Harper	1018-2 CON8	1070

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	$500	$0.00	$0.00	$500	10/13/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
JEAN GILLES, JUDE	2447	705-014580

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 03-09 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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). 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. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

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.
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.
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. _____

Meta's Exhibit 1022
Page 00349

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/889,781	02/06/2018	David Walker Harper	1018-2 CON8	1070

31825 7590 07/13/2020
RYAN, MASON & LEWIS, LLP
48 South Service Road
Suite 100
Melville, NY 11747

EXAMINER	
JEAN GILLES, JUDE	
ART UNIT	PAPER NUMBER
2447	

DATE MAILED: 07/13/2020

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 30 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. 15/889,781	Applicant(s) Harper et al.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	AIA (FITF) 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 02/06/2018.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3. ☑ The allowed claim(s) is/are 21-42 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov**.

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

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

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

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

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 07/06/2018.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447

Notice of Pre-AIA or AIA Status

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

Cancelled Claims

2. Claims 1-20 are allowed.

Allowed Claims

3. Claims 21-42 are allowed; Renumbered 1-22.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance: The closest prior art of record. US 20130254314 A1, KIM et al, does not disclose the details of "a method and system capable of ... *uploading external data to a second set of one or more servers for use in the data communication network; reformatting the external data for mobile device use; and automatically generating mobile resources at a location different from the first uniform resource locator, the mobile resources being accessible independent of the content management resources via one or more mobile devices, the mobile resources automatically including the reformatted external data from a third set of one or more servers in the data communication network.*" As filed by applicants on 05/07/2020.

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."

Conclusions

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUDE JEAN GILLES whose telephone number is (571)272-3914. The examiner can normally be reached on Mon-Fri, from 9:00AM-7:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Hwang can be reached on 571-272-4036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see https://ppair-my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JUDE JEAN GILLES/
Primary Examiner, Art Unit 2447
July 3, 2020

Notice of References Cited	Application/Control No. 15/889,781	Applicant(s)/Patent Under Reexamination Harper et al.	
	Examiner JUDE JEAN GILLES	Art Unit 2447	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20070016822-A1	01-2007	Rao; Sudhir G.	H04L67/1008	714/4.11
*	B	US-20030120424-A1	06-2003	Angwin, Alastair J.	G01S5/02	701/468
*	C	US-20180101965-A1	04-2018	PARK; Hyun Woo	H04W4/02	1/1
*	D	US-20150294377-A1	10-2015	Chow; Edmond K.	G06Q30/0282	705/347
*	E	US-20130254314-A1	09-2013	Chow; Edmond K.	G06F16/957	709/206
*	F	US-20170086204-A1	03-2017	JUNG; Euichang	H04W28/0263	1/1
*	G	US-20160046285-A1	02-2016	KIM; Jihyun	G08G1/091	340/932.2
*	H	US-20100313250-A1	12-2010	Chow; Edmond Kwok-Keung	H04L63/08	726/5
*	I	US-20100241666-A1	09-2010	Kaihotsu; Takahisa	H04N5/775	707/780
*	J	US-20090154901-A1	06-2009	KIM; Kwang-min	H04L67/06	386/241
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC 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.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	Harper et al.
	Examiner	Art Unit
	JUDE JEAN GILLES	2447

CPC								
Symbol							Type	Version
G06Q	/	30	/	0267			F	2013-01-01
G06F	/	16	/	986			I	2019-01-01
G06F	/	16	/	9577			I	2019-01-01
G06Q	/	30	/	02			I	2013-01-01
H04L	/	12	/	18			I	2013-01-01
H04L	/	12	/	1827			I	2013-01-01
H04L	/	12	/	1859			I	2013-01-01
H04L	/	29	/	06			I	2013-01-01
H04L	/	51	/	38			I	2013-01-01
H04L	/	67	/	14			I	2013-01-01
H04L	/	67	/	18			I	2013-01-01
H04L	/	67	/	04			I	2013-01-01
G06F	/	3	/	0484			I	2013-01-01
G06F	/	3	/	0481			I	2013-01-01
H04L	/	41	/	22			I	2013-01-01
H04W	/	8	/	00			I	2013-01-01
H04L	/	67	/	02			I	2013-01-01
H04L	/	67	/	10			I	2013-01-01
H04L	/	67	/	42			I	2013-01-01
G06Q	/	30	/	0261			I	2013-01-01
H04L	/	65	/	4015			I	2013-01-01
H04W	/	4	/	023			I	2013-01-01
H04L	/	12	/	189			A	2013-01-01
H04W	/	4	/	00			A	2013-01-01
H04W	/	8	/	20			A	2013-01-01
H04W	/	28	/	06			A	2013-01-01
H04L	/	69	/	329			A	2013-01-01

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	22	
/JUDE JEAN GILLES/ Primary Examiner, Art Unit 2447	05 July 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20200702

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	Harper et al.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

CPC Combination Sets					
Symbol		**Type**	**Set**	**Ranking**	**Version**
/	/				

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	22	
/JUDE JEAN GILLES/ Primary Examiner, Art Unit 2447	05 July 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20200702

Meta's Exhibit 1022
Page 00357

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	Harper et al.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04L	/	12	/	58

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
709	217

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
709	203	232	200	224	250	248

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	22	
/JUDE JEAN GILLES/ Primary Examiner, Art Unit 2447	05 July 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office — Part of Paper No.: 20200702

Meta's Exhibit 1022
Page 00358

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19	8	28	17	37						
	2		11		20	9	29	18	38						
	3		12	1	21	10	30	19	39						
	4		13	2	22	11	31	20	40						
	5		14	3	23	12	32	21	41						
	6		15	4	24	13	33	22	42						
	7		16	5	25	14	34								
	8		17	6	26	15	35								
	9		18	7	27	16	36								

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	22	
/JUDE JEAN GILLES/ Primary Examiner, Art Unit 2447	05 July 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

U.S. Patent and Trademark Office Part of Paper No.: 20200702

Meta's Exhibit 1022
Page 00359

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	Harper et al.
	Examiner	Art Unit
	JUDE JEAN GILLES	2447

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	014.480; 217, 203, 204, 232, 200, 224, 250, 248, 223, 228, and 229	02/03/2020	JG

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

Search Notes		
Search Notes	Date	Examiner
EAST text and claim search; NPLs	02/03/2020	JG
EAST text and claim search; NPLs	07/05/2020	JG

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
709	014.480; 217, 203, 204, 232, 200, 224, 250, 248, 223, 228, and 229	07/05/2020	JG
703	217, 203, 204, 232, 200, 224, 250, 248, 226-230	07/05/2020	JG
370	400 and 410	07/05/2020	JG

/JUDE JEAN GILLES/ Primary Examiner, Art Unit 2447	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/889,781	Harper et al.
	Examiner	**Art Unit**
	JUDE JEAN GILLES	2447

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

CLAIMS

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

CLAIM		DATE								
Final	Original	02/03/2020	07/02/2020							
	1	✓	-							
	2	✓	-							
	3	✓	-							
	4	✓	-							
	5	✓	-							
	6	✓	-							
	7	✓	-							
	8	✓	-							
	9	✓	-							
	10	✓	-							
	11	✓	-							
	12	✓	-							
	13	✓	-							
	14	✓	-							
	15	✓	-							
	16	✓	-							
	17	✓	-							
	18	✓	-							
	19	✓	-							
	20	✓	-							
1	21		=							
2	22		=							
3	23		=							
4	24		=							
5	25		=							
6	26		=							
7	27		=							
8	28		=							
9	29		=							
10	30		=							
11	31		=							
12	32		=							
13	33		=							
14	34		=							
15	35		=							
16	36		=							
17	37		=							
18	38		=							
19	39		=							
20	40		=							
21	41		=							
22	42		=							

Meta's Exhibit 1022
Page 00361

Bibliographic Data

Application No: 15/889,781

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /JUDE JEAN GILLES/ | JG

Examiner's Signature | Initials

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

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
02/06/2018	705	2447	1018-2 CON8
RULE			

APPLICANTS

Engagelogic Corporation, Smithtown, NY,

INVENTORS

David Walker Harper Bay Shore, NY, UNITED STATES

Jason James Sabella Coram, NY, UNITED STATES

William Henry Munch Tampa, FL, UNITED STATES

CONTINUING DATA

This application is a CON of 15448064 03/02/2017 PAT 9922348

15448064 is a CON of 14324698 07/07/2014 PAT 9619578

14324698 is a CON of 14175768 02/07/2014 PAT 8825801

14175768 is a CON of 13364950 02/02/2012 PAT 8793336

13364950 is a CON of 13027519 02/15/2011 PAT 8135801

13027519 is a CON of 12548928 08/27/2009 PAT 7908342

12548928 is a CON of 10464526 06/18/2003 PAT 7599983

10464526 has PRO of 60389430 06/18/2002

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

03/13/2018

**** SMALL ENTITY ****

STATE OR COUNTRY

UNITED STATES

ADDRESS

RYAN, MASON & LEWIS, LLP

48 South Service Road
Suite 100
Melville, NY 11747
UNITED STATES

FILING FEE RECEIVED

$785

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	27,110	(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	4,769	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	22,984	(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	18,894	(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	54,376	((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	USPAT; USOCR	OR	OFF	2014/05/13 09:37

		(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.				
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 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.)	US-PGPUB; USPAT	OR	ON	2014/05/13 11:29
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
S41	3	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	2014/06/30 13:30
S42	27,766	(interfac$3 near7 (first initial primary) adj4 (user member participant subscriber))	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S43	4,847	mobile adj4 (information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S44	27	S43 and S42	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S45	19,120	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S46	23,279	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless0 adj4 information data content) adj4 channel)	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S47	55,210	((709/217) or (709/203) or (709/204) or (709/232) or (709/200) or (709/224) or (709/250) or (709/248) or	USPAT; USOCR	OR	OFF	2014/06/30 13:32

		(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.				
S48	622	S47 and S46	USPAT	OR	OFF	2014/06/30 13:32
S49	200	mobile adj4 (information data content) adj4 channel same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2014/06/30 13:32
S50	7	S47 and S49	US-PGPUB; USPAT	OR	OFF	2014/06/30 13:32
S51	55,210	((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	2014/06/30 13:32
S52	183	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (wireless adj3 ink adj3 corporation).asn.)	US-PGPUB; USPAT	OR	ON	2014/06/30 13:33
S53	24,310	(integrat$3 insert$3 combin$3 activat$ provid$3) near10 ((mobile wireless) adj4 information data content) adj4 channel	US-PGPUB; USPAT	OR	ON	2017/05/15 14:17
S54	1	"9619578".pn.	US-PGPUB; USPAT	OR	ON	2017/05/15 14:18
S55	7	mobile adj4 (information data content) adj4 channel near20 (user adj4 interfac$3) same wireless adj4 network	US-PGPUB; USPAT	OR	ON	2017/05/15 14:23
S56	8	mobile adj4 (information data content) adj4 channel same wireless adj4 network same user adj4 interfac$3	US-PGPUB; USPAT	OR	ON	2017/05/15 14:23
S57	23	mobile adj4 (information data content) adj4 channel and wireless adj4 network same shar$3 adj5 access$3	US-PGPUB; USPAT	OR	ON	2017/05/15 14:24
S58	19	mobile adj4 (information data content) adj4 channel same wireless adj4 network and access$3 adj5 shar$3 same user	US-PGPUB; USPAT	OR	ON	2017/05/15 14:24

S59	1,346	activat$3 near7 (mobile adj4 (information content))	US-PGPUB; USPAT	OR	ON	2017/05/15 14:24
S60	13	activat$3 near7 (mobile adj4 (information content))same insert$3 adj6 (content data information)	US-PGPUB; USPAT	OR	ON	2017/05/15 14:25
S61	62,536	((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	2017/05/15 14:26
S62	29	S61 and S59	US-PGPUB; USPAT	OR	ON	2017/05/15 14:26
S63	1	"7599983".pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:46
S64	1	"7908342".pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:49
S65	1	"8793336" .pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:52
S66	1	"8793336".pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:52
S67	1	"9619578" .pn.	US-PGPUB; USPAT	OR	ON	2017/10/30 12:55
S68	40,147	(server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)	US-PGPUB; USPAT	OR	ON	2017/10/30 12:58
S69	1,183	(first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)	US-PGPUB; USPAT	OR	ON	2017/10/30 12:58
S70	245	(first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content) same (second$3) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)	US-PGPUB; USPAT	OR	ON	2017/10/30 12:58
S71	0	(web internet)adj7 channel same (first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content) same (second$3) adj4 (server device	US-PGPUB; USPAT	OR	ON	2017/10/30 12:59

		apparatus computer PDA phone) adj4 captur$3 adj3 (data information content)				
S72	29	(first primary initial) adj4 (server device apparatus computer PDA phone) adj4 captur$3 adj3 (data information content) same internet	US-PGPUB; USPAT	OR	ON	2017/10/30 13:00
S73	69,710	((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 (370/232) or (370/235) or (370/241.1) or (370/248) or (375/225) 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	2017/10/30 13:23
S74	264	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (wireless adj3 ink adj3 corporation).asn.)	US-PGPUB; USPAT	OR	ON	2017/10/30 13:25
S75	0	S72 and S73 and S74	US-PGPUB; USPAT	OR	ON	2017/10/30 13:25
S76	311	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (Engagelogic adj3 Corporation).asn.)	US-PGPUB; USPAT	OR	ON	2020/02/03 13:10
S77	62,495	((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	2020/02/03 13:23
S78	62,495	((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	2020/02/03 13:23
S79	62,409	S77 or S78	US-PGPUB; USPAT	OR	ON	2020/02/03 13:23

S80	62,409	S77 and S78	US-PGPUB; USPAT	OR	ON	2020/02/03 13:24
S81	3,213,804	activat$3 mobile adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:25
S82	3,191,743	activat$3 mobile adj4 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:25
S83	3,186,294	activat$3 mobile adj4 (information content message data) adj4 channel same insert$3 near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:25
S84	3,186,294	activat$3 mobile adj4 (information content message data) adj4 channel same (insert$3 integrat$3) near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:26
S85	8,838	(user member individual customer subscriber) near10 shar$3 adj4 access$3 and activat$3 mobile adj4 (information content message data) adj4 channel same (insert$3 integrat$3) near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:27
S86	1	(user member individual customer subscriber) near10 shar$3 adj4 access$3 and activat$3 adj4 mobile adj4 (information content message data) adj4 channel same (insert$3 integrat$3) near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 13:27
S87	22,129	(user member individual customer subscriber) near10 shar$3 adj4 access$3	US-PGPUB; USPAT	OR	ON	2020/02/03 13:29
S88	7,380	(user member individual customer subscriber) near10 shar$3 adj4 access$3 adj7 (content data information messag$3)	US-PGPUB; USPAT	OR	ON	2020/02/03 13:29
S89	1	"9922348".pn.	US-PGPUB; USPAT	OR	ON	2020/02/03 13:30
S90	1	"9922348".pn.	US-PGPUB; USPAT	OR	ON	2020/02/03 13:38
S91	1	(user member individual customer subscriber) near10 shar$3 adj4 access$3 and activat$3 adj4 mobile adj4 (information content message data) adj4 channel and (insert$3	US-PGPUB; USPAT	OR	ON	2020/02/03 14:17

		integrat$3) near20 portion near10 (information content message data) adj4 channel				
S92	2	(user member individual customer subscriber) near10 shar$3 adj4 access$3 and (insert$3 integrat$3) near20 portion near10 (information content message data) adj4 channel	US-PGPUB; USPAT	OR	ON	2020/02/03 14:18
S93	12	(user member individual customer subscriber) near10 shar$3 adj4 access$3 and (insert$3 integrat$3) near20 portion near10 (information content message data) same channel	US-PGPUB; USPAT	OR	ON	2020/02/03 14:22
S94	66,316	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position)	US-PGPUB; USPAT	OR	ON	2020/07/02 15:54
S95	2,866	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same ((user participant member subscriber client) adj7 access$3)	US-PGPUB; USPAT	OR	ON	2020/07/02 15:55
S96	1	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/02 15:57
S97	1	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 ((external foreign) adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/02 15:57
S98	1	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 ((external foreign) adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/02 15:58
S99	1	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 ((external foreign) adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/02 16:00
S100	106	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) and ((user participant	US-PGPUB; USPAT	OR	ON	2020/07/02 16:01

		member subscriber client) adj7 access$3) near40 (external adj6 (server host))				
S101	5	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) and ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host)) and reformat$4	US-PGPUB; USPAT	OR	ON	2020/07/02 16:04
S102	106	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) and ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/02 16:08
S103	7	(information data content) adj4 (manag$$ controll$4) near40 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/02 16:08
S104	1,713,890	(information data content) adj4 (manag$$ controll$4) near40 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host)) automatic	US-PGPUB; USPAT	OR	ON	2020/07/02 16:09
S105	0	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) and ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host)) and automatic$3 same reformat$3	US-PGPUB; USPAT	OR	ON	2020/07/02 16:09
S106	62,497	((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) or (705/014.580) or (714/4) or (701/213)).CCLS.	USPAT; USOCR	OR	OFF	2020/07/02 16:12
S107	323	((Harper adj2 David).inv. (Sabella adj3 Jason).inv. (Munch adj3 William).inv. (wireless adj3 ink adj3 corporation).asn.)	US-PGPUB; USPAT	OR	ON	2020/07/02 16:13

S108	0	(information data content) adj4 (manag$$ controll$4) near40 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host)) and enhanc$3 adj6 access	US-PGPUB; USPAT	OR	ON	2020/07/02 16:22
S109	0	(information data content) adj4 (manag$$ controll$4) near40 (locat$3 position) same ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host)) and(enhanc$3 improv$3)adj6 access	US-PGPUB; USPAT	OR	ON	2020/07/02 16:22
S110	106	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) and ((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/03 12:07
S111	8,514,142	(enhanc$3 improv$3) access$5 near network and S110	US-PGPUB; USPAT	OR	ON	2020/07/03 12:07
S112	0	(enhanc$3 improv$3) adj3 access$5 near network and S110	US-PGPUB; USPAT	OR	ON	2020/07/03 12:07
S113	3,023	((user participant member subscriber client) adj7 access$3) near40 (external adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/03 12:09
S114	1,945	S111 and S113	US-PGPUB; USPAT	OR	ON	2020/07/03 12:09
S115	166	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same (external adj6 (server host))	US-PGPUB; USPAT	OR	ON	2020/07/03 12:10
S116	24	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same (external adj6 (server host)) and (upload$3 download$3) near40 (external near50 (server data content client mobile))	US-PGPUB; USPAT	OR	ON	2020/07/03 12:12
S117	1	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same (external adj6 (server host)) and (upload$3 download$3) near40 (external near50 (server data content client mobile)) AND REFORMAT$3	US-PGPUB; USPAT	OR	ON	2020/07/03 12:15

S118	24	(information data content) adj4 (manag$$ controll$4) adj9 (locat$3 position) same (external adj6 (server host)) and (upload$3 download$3 REFORMAT$3) near40 (external near50 (server data content client mobile))	US-PGPUB; USPAT	OR	ON	2020/07/03 12:16

7/5/2020 1:07:41 PM
C:\Users\jjeangilles\Documents\EAST\Workspaces\15889781.wsp

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

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	7668913	B1	2010-02-23	Underwood et al.	
	2	7640512	B1	2009-12-29	Appling	
	3	7590681	B1	2009-09-15	Chang et al.	
	4	6915328	B2	2005-07-05	Turnbull	
	5	6714778	B2	2004-03-30	Nykänen et al.	
	6	6519241	B1	2003-02-11	Theimer	
	7	6240360	B1	2001-05-29	Phelan	
	8	6112206		2000-08-29	Morris et al.	
If you wish to add additional U.S. Patent citation information please click the Add button.						

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

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	20010034746	A1	2001-10-25	Tsakiris et al.	
	2	20010056460	A1	2001-12-27	Sahota et al.	
	3	20020101848	A1	2002-08-01	Lee et al.	

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

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1	02/03243	WO	A1	2002-01-10			☐
	2	01/29573	WO	A2	2001-04-26			☐

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	S. CHEN ET AL., "WAP (Wireless Application Protocol)," http://www.tml.tkk.fi/Studies/Tik-110.300/1998/Essays/wap.html, November 20, 1998, 6 pages.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

	2	U.S. Patent Application Serial No. 09/651,796, filed in the name of John Underwood et al., on August 30, 2000, and entitled "Method and Apparatus for Generating a Web Site with Dynamic Content Data from an External Source Integrated Therein."	☐
	3	D. FENSEL, ET AL., "The Semantic Web and Its Languages, IEEE Intelligent Systems and Their Applications, November/December 2000, pp. 67-73	☐
	4	Y. DIMOPOULOS ET AL., "Information Integration and Computational Logic," https://arxiv.org/abs/cs/0106025, June 11, 2001, 53 pages.	☐
	5	G. K. DORAI ET AL., "Embedded Grammar Tags: Advancing Natural Language Interaction on the Web," IEEE Intelligent Systems, January/February 2002, pp. 48-53.	☐
	6	S. A. MCILRAITH ET AL., "Mobilizing the Semantic Web with DAML-Enabled Web Services," Proceedings of the Second International Conference on Semantic Web, 2001, 11 pages.	☐
	7	Declaration of Mark Crovella, Ph.D. In Support of Petition for Inter Partes Review of Claims 1, 4-5, 9-11, and 16-20 of U.S. Patent No. 7,908,342, IPR2018-01131, Filed May 31, 2018, 157 pages.	☐
	8	Declaration of Mark Crovella, Ph.D. In Support of Petition for Inter Partes Review of Claims 1-4, 6-8, and 12-15 of U.S. Patent No. 7,908,342, IPR2018-01132, Filed May 31, 2018, 156 pages.	☐
	9	Petition for Inter Partes Review of Claims 1, 4-5, 9-11, and 16-20 of U.S. Patent No. 7,908,342, IPR2018-01131, Filed May 31, 2018, 77 pages.	☐
	10	Petition for Inter Partes Review of Claims 1-4, 6-8, and 12-15 of U.S. Patent No. 7,908,342, IPR2018-01132, Filed May 31, 2018, 72 pages.	☐
	11	MICROSOFT CORPORATION, "Microsoft Computer Dictionary," 2002, Fifth Edition, pg. 564.	☐
If you wish to add additional non-patent literature document citation information please click the Add button			

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

EXAMINER SIGNATURE			
Examiner Signature	/JUDE JEAN GILLES/	Date Considered	07/03/2020

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	15889781
	Filing Date	2018-02-06
	First Named Inventor	David W. Harper
	Art Unit	3622
	Examiner Name	Nathan C. Uber
	Attorney Docket Number	1018-2 CON8

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Joseph B. Ryan/	Date (YYYY-MM-DD)	2018-07-06
Name/Print	Joseph B. Ryan	Registration Number	37922

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.J/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Engagelogic Corporation
Inventor(s):	David Walker Harper et al.
Docket No.:	1018-2 CON8
Serial No.:	15/889,781
Filing Date:	February 6, 2018
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 13, 2020, in the above-identified application.

REMARKS

Applicant has reviewed the Examiner's Statement of Reasons for Allowance (hereinafter "Statement") given on page 2 of the Notice of Allowability.

Applicant expressly traverses the Statement to the extent that any portion thereof is intended to or has the effect of limiting the scope of the allowed claims and to the extent that any portion thereof implies that all the reasons for patentability of the allowed claims are fully enumerated.

In the Statement, the Examiner characterizes a prior art reference as being the "closest" prior art. Applicant does not necessarily concur in this characterization.

The Examiner further characterizes the prior art as failing to disclose certain limitations of the claims. To the extent that such concessions may be interpreted as implying that other limitations of the claims are conventional or otherwise fail to distinguish over the prior art, Applicant respectfully traverses.

Applicant respectfully requests that the above comments be made of record and placed into the application file pursuant to 37 CFR 1.104(e).

Respectfully submitted,

/Joseph B. Ryan/

Date: October 13, 2020

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

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (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 07/13/2020
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 transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/889,781	02/06/2018	David Walker Harper	1018-2 CON8	1070

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	$500	$0.00	$0.00	$500	10/13/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
JEAN GILLES, JUDE	2447	705-014580

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 03-09 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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE	(B) RESIDENCE: (CITY and STATE OR COUNTRY)
Engagelogic Corporation	Smithtown, 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. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 50-0762

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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.
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.
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 October 13, 2020

Typed or printed name Joseph B. Ryan Registration No. 37,922

PTOL-85 Part B (08-18) Approved for use through 01/31/2020 OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Meta's Exhibit 1022
Page 00383

Electronic Patent Application Fee Transmittal

Application Number:	15889781
Filing Date:	06-Feb-2018
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Filer:	Joseph Bernard Ryan/Nancy Crowe
Attorney Docket Number:	1018-2 CON8

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	500	500

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**500**

Electronic Acknowledgement Receipt

EFS ID:	40831354
Application Number:	15889781
International Application Number:	
Confirmation Number:	1070
Title of Invention:	METHOD, APPARATUS AND SYSTEM FOR MANAGEMENT OF INFORMATION CONTENT FOR ENHANCED ACCESSIBILITY OVER WIRELESS COMMUNICATION NETWORKS
First Named Inventor/Applicant Name:	David Walker Harper
Customer Number:	31825
Filer:	Joseph Bernard Ryan/Nancy Crowe
Filer Authorized By:	Joseph Bernard Ryan
Attorney Docket Number:	1018-2 CON8
Receipt Date:	13-OCT-2020
Filing Date:	06-FEB-2018
Time Stamp:	15:59:41
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$500
RAM confirmation Number	E20200CG00120520
Deposit Account	500762
Authorized User	Nancy Crowe
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Post Allowance Communication - Incoming	1018-2CON8_CMTS.pdf	77336 7b64180f9bd2cdf650d821b963e01ec79ce7c581	no	2
Warnings:					
Information:					
2	Issue Fee Payment (PTO-85B)	1018-2CON8_IF.pdf	1634623 d102fa37d34ce224a28d4d1ef6761755ea9ff586	no	1
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30779 a09689e4fe492da4fc9109642a7c0632dddd9559	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1742738		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/889,781	11/17/2020	10839427	1018-2 CON8	1070

31825 7590 10/28/2020

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 307 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;
Engagelogic Corporation, Smithtown, NY;
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.