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PTO/AIA/82A (07-13)
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Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Title	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

SIGNATURE of Applicant or Patent Practitioner

Signature	/DMMorse/	Date (Optional)	
Name	David M. Morse	Registration Number	50505
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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

☐ *Total of _____ forms are submitted.

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

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Meta EX1002
IPR2024-00530
U.S. Patent No. 9,877,345

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

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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

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☑ 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: 84212

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:

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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):

Resource Consortium Limited

☐ 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)	15/09/14
Name	Gordon R. Herring		
Title	Vice President		

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

☐ Total of 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.

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PTO/SB/08a (01-10)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5835907		1998-11-10	NEWMAN	
	2	6091956		2000-07-18	HOLLENBERG	
	3	6112074		2000-08-29	PINDER	
	4	6295001		2001-09-25	BARBER	
	5	6424840		2002-07-23	FITCH et al.	
	6	6542750		2003-04-01	HENDREY et al.	
	7	6563910		2003-05-13	MENARD et al.	
	8	6600928		2003-07-29	AHYA et al.	

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	Application Number	
	Filing Date	
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RCL-005-16

	9	6785681		2004-08-31	KESKAR et al.	
	10	6788766		2004-09-07	LOGAN	
	11	6947754		2005-09-20	OGASAWARA	
	12	6970871		2005-11-29	TERRY	
	13	7027055		2006-04-11	ANDERSON et al.	
	14	7058385		2006-06-06	LAUPER	
	15	7091829		2006-08-15	LEE	
	16	7151939		2006-12-19	SHEYNBLAT	
	17	7177398		2007-02-13	MEER et al.	
	18	7181346		2007-02-20	KLEIST et al.	
	19	7194249		2007-03-20	PHILLIPS et al.	

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	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RCL-005-16

	20	7221928		2007-05-22	LAIRD et al.	
	21	7231220		2007-06-12	REDDY et al.	
	22	7233974		2007-06-19	KAWAHARA et al.	
	23	7239871		2007-07-03	SHAMP et al.	
	24	7242948		2007-07-10	FLEISCHER et al.	
	25	7245925		2007-07-17	ZELLNER	
	26	7254607		2007-08-07	HUBBARD et al.	
	27	7266558		2007-09-04	GRAY	
	28	7283045		2007-10-16	MANZ	
	29	7317705		2008-01-08	HANSON	
	30	7487112		2009-02-03	BARNES JR. et al.	

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	First Named Inventor	Thomas Cona
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	Examiner Name	
	Attorney Docket Number	RCL-005-16

	31	7523191		2009-04-21	THOMAS et al.	
	32	7532900		2009-05-12	WILSON et al.	
	33	7557689		2009-07-07	NABIL et al.	
	34	7672281		2010-03-02	HUMPHRIES et al.	
	35	7676233		2010-03-09	REHKOPF	
	36	7711475		2010-05-04	CONA et al.	
	37	7812717		2010-10-12	CONA et al.	
	38	7860519		2010-12-28	PORTMAN et al.	
	39	8000893		2011-06-16	CONA et al.	
	40	8036632		2011-10-11	CONA et al.	
	41	8045455		2011-10-25	AGRONOW et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Art Unit	
	Examiner Name	
	Attorney Docket Number	RCL-005-16

	42	8230456		2012-07-24	JACOBY et al.	
	43	8358609		2013-01-22	CONA et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010009857		2001-07-26	VANITTINEN	
	2	20020107029		2002-08-08	CAUGHRAN et al.	
	3	20020161838		2002-10-31	PICKOVER et al.	
	4	20020177428		2002-11-28	MENARD et al.	
	5	20020181684		2002-12-05	LOGAN	
	6	20030148774		2003-08-07	NAGHIAN et al.	
	7	20030162557		2003-08-28	SHIDA	

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	Application Number	
	Filing Date	
	First Named Inventor	Thomas Cona
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	Examiner Name	
	Attorney Docket Number	RCL-005-16

	8	20030197615		2003-10-23	ROCHE et al.	
	9	20040023666		2004-02-05	MOON et al.	
	10	20040039807		2004-02-26	BOVEDA et al.	
	11	20050033511		2005-02-10	PECHATNIKOV et al.	
	12	20050096840		2005-05-05	SIMSKE	
	13	20050132016		2005-06-16	BOONE	
	14	20050135428		2005-06-23	HELLGREN	
	15	20060211404		2006-09-21	CROMP et al.	
	16	20060274743		2006-12-07	YEGIN et al.	
	17	20060287872		2006-12-21	SIMRELL	
	18	20070021981		2007-01-25	COX	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Thomas Cona
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	Examiner Name	
	Attorney Docket Number	RCL-005-16

	19	20070032247		2007-02-08	SHAFFER et al.	
	20	20070161382		2007-07-12	MELINGER et al.	
	21	20070192116		2007-08-16	LOVITT	
	22	20070208837		2007-09-06	TIAN et al.	
	23	20070209054		2007-09-06	CASSANOVA	
	24	20070255785		2007-11-01	HAYASHI et al.	
	25	20080046511		2008-02-21	SKRENTA	
	26	20080086219		2008-04-10	EVANS et al.	
	27	20080139218		2008-06-12	DUAN	
	28	20090015467		2009-01-15	KWON et al.	
	29	20090024726		2009-01-22	JEON et al.	

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	Filing Date	
	First Named Inventor	Thomas Cona
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	Examiner Name	
	Attorney Docket Number	RCL-005-16

	30	20090030927		2009-01-29	CASES et al.	
	31	20090135758		2009-05-28	ALPER et al.	
	32	20090213001		2009-08-27	APPELMAN et al.	
	33	20090235305		2009-09-17	PUGEL	
	34	20090254944		2009-10-08	WATSON et al.	

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

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	SYDELL, LAURA "What are you doing? Twitter Offers a Megaphone", May 21, 2007, http://www.npr.org/templates/story, 1 pg.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RCL-005-16

	2	Web Pages, Send Word Now; http://www.sendwordnow.com, July 19, 2007, 11 pgs.	☐
	3	SCHNEIDERMAN, Ben, PREECE, Jennifer; "911.gov", February 16, 2007, Science Magazine, Vol. 315, pg. 944, www.sciencemag.org, 1 pg.	☐
	4	"Notify!/Severe Weather Alerts" Web Pages; www.weather.com, July 12, 2007, 5 pgs.	☐
	5	BIEVER, Celeste, "My Space-style websites, perfect for disaster survival", NewScientistTech.com, February 15, 2007, 2 pgs.	☐
	6	JACKSON, Joab, "Disaster Prediction Social Networking Boosted by Geo-Data Feeds", http://news. nationalgeographic.com; October 19, 2006, 5 pgs.	☐
	7	KIM, Ryan, "Hey Baby, want a date?", www.sfgate.com, July 23, 2005, 3 pgs.	☐
	8	"Social Networking, What you need to know", INConnect Spring, 2007, www.ena.com, 8 pgs.	☐
	9	HALES, David, et al, "Friends for Free: Self Organizing Artificial Social Networks for Trust and Cooperation", University of Bologna, Italy, August 2005, 20 pgs.	☐
	10	Dane County Department of Emergency Management Warning System, October 23, 2006, www.countyofDane.com, 10 pgs.	☐
	11	"Share your world with ((Echo))MyPlace and CarbonCloud, July 15, 2007, www.thecarbonproject.com, 4 pgs.	☐
	12	HARRISON, Jeff, "Location Based Social Networking for Crisis Management", 2006, www.thecarbonproject.com, 24 pgs.	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
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	Examiner Name	
	Attorney Docket Number	RCL-005-16

	13	Press Release, "WeatherBug and SendWorkNow Launch Smart Notification, Weather Service to Deliver Nation's First Location Based, 2-way Mobile Weather Alerts and Notifications Based on Live WeatherBug Network Data", June 12, 2006, www.aws.com, 6 pgs.	☐
	14	PHILLIPS, Brenda D. Ph.D, et al, "Social Science Research Needs: A Focus on Vulnerable Populations, Forecasting and Warnings", February 2006, Hurricane Forecast Socio-economic Workshop, Pomona, CA, 11 pgs.	☐

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Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
	Application Number	
	Filing Date	
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	RCL-005-16

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ None

SIGNATURE

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

Signature	/DMMorse/	Date (YYYY-MM-DD)	2015-09-22
Name/Print	David M. Morse	Registration Number	50505

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

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Thomas Cona	Examiner: N/A
Serial No.: Filed Herewith	Art Unit: N/A
Filing Date: Filed Herewith	Confirmation No.: N/A
For: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	Attorney Docket No.: RCL-005-16

INFORMATION DISCLOSURE STATEMENT

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

Commissioner:

Pursuant to 37 CFR 1.56, 1.97, and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached disclosure form.

The attached Information Disclosure Statement is being filed concurrently with the filing of the above-encaptioned continuation Application. As such, no fees are due with this filing.

In accordance with 37 CFR 1.98, Applicant has not submitted copies of U.S. patents and U.S. patent applications, and Applicant has not submitted copies of foreign patents and non-patent literature that were cited in previous filings made in connection with one or more of U.S. Patent Application No. 11/924,711, filed October 26, 2007; U.S. Patent Application No. 13/274,712, filed October 17, 2011; and U.S. Patent Application No. 13/612,964, filed September 13, 2012, and the present application claims

priority each of the aforementioned applications, said previous filings having conformed with the requirements of 37 CFR 1.98(a)-(c).

Respectfully submitted,

THE BELLES GROUP, P.C.

Date: September 22, 2015

By: David M. Morse, Esq.
Reg. No. 50,505
For: The Belles Group, P.C.
404 S. 16th Street
Philadelphia, PA 19146
Office: 215-735-9302

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Filer:	David M. Morse/Michele Greenberg
Attorney Docket Number:	RCL-005-16

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	1051	1	140	140
Petition:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1740**

Electronic Acknowledgement Receipt

EFS ID:	23568477
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	84212
Filer:	David M. Morse/Michele Greenberg
Filer Authorized By:	David M. Morse
Attorney Docket Number:	RCL-005-16
Receipt Date:	22-SEP-2015
Filing Date:	
Time Stamp:	15:33:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1740
RAM confirmation Number	1911
Deposit Account	504766
Authorized User	BELLES, BRIAN L.

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	RCL-005-16__ADS.pdf	1819642 01b7cca486e102448c89c91aa3454a12eeb5330b	no	8
Warnings:					
Information:					
2		RCL-005-16__Specification_Final.pdf	386964 6c6c048d554f028ed356c1cdc5f61fdd48189234	yes	54
	Multipart Description/PDF files in .zip description				
	Document Description		**Start**	**End**	
	Specification		1	50	
	Claims		51	53	
	Abstract		54	54	
Warnings:					
Information:					
3	Drawings-only black and white line drawings	RCL-005-16__Figures_Final.pdf	1456271 7a531adbefb9634ea8cb44e767eca754d83083ac	no	45
Warnings:					
Information:					
4	Power of Attorney	RCL-005-16__ApplicantPower.pdf	888853 cfe3196fb7569b0fc30e0ee2df261b85b3f22af0	no	2
Warnings:					
Information:					
5	Information Disclosure Statement (IDS) Form (SB08)	RCL-005-16__IDS.pdf	615351 7996acab2616c3b709533989b0b2d944ebabf594	no	12
Warnings:					
Information:					
6	Transmittal Letter	RCL-005-16__IDS_Cover_Letter__.pdf	69608 5fff26de7c2b922601bc7a72e46f8ca7f5309c60	no	2

Warnings:					
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7	Fee Worksheet (SB06)	fee-info.pdf	36879 a3c47a3e7d46a90c7d712566befda480bc73bbc7	no	2
Warnings:					
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			Total Files Size (in bytes):	5273568	

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RCL-005-16
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

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

Secrecy Order 37 CFR 5.2

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

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Thomas		Cona	

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

City	Athens	State/Province	GA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	700 Riverview Road		
Address 2			
City	Athens	State/Province	GA
Postal Code	30606	Country i	US

Inventor 2 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Patrick	T.	Igoe	

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

City	Philadelphia	State/Province	PA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	2032B Arch Street		
Address 2			
City	Philadelphia	State/Province	PA
Postal Code	19103	Country i	US

Inventor 3 Remove

Legal Name

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	Leonid		Kravets	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RCL-005-16
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

City	Philadelphia	State/Province	PA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	2001 Hamilton Avenue		
Address 2			
City	Philadelphia	State/Province	PA
Postal Code	19130	Country i	US

Inventor 4 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Edward	A.	Ehrlacher	

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

City	Philadelphia	State/Province	PA	Country of Residence i	US

Mailing Address of Inventor:

Address 1	226 W. Gravers Lane		
Address 2			
City	Philadelphia	State/Province	PA
Postal Code	19118	Country i	US

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

Correspondence Information:

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For further information see 37 CFR 1.33(a).

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

Customer Number	84212		
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Application Information:

Title of the Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK		
Attorney Docket Number	RCL-005-16	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)	

Filing By Reference :

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RCL-005-16
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

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

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

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

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

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

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Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the application number blank.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation of	13612964	2012-09-13

Prior Application Status	Patented				Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13612964	Continuation of	13274712	2011-10-17	8332454	2012-12-11

Prior Application Status	Patented	Remove

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RCL-005-16
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
13274712	Division of	11924711	2007-10-26	8069202	2011-11-29

Prior Application Status	Expired	Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
11924711	Claims benefit of provisional	60887843	2007-02-02

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

Foreign Priority Information:

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

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

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

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

Authorization to Permit Access:

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RCL-005-16
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

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

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

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

Applicant Information:

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

Applicant 1 Remove

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

Clear

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

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

Name of the Deceased or Legally Incapacitated Inventor :

If the Applicant is an Organization check here. [X]

Organization Name	Resource Consortium Limited

Mailing Address Information For Applicant:

Address 1	Craigmuir Chambers		
Address 2	P.O. Box 71, Road Town		
City	Tortola	**State/Province**	
Country [i]	VG	Postal Code	
Phone Number		Fax Number	

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RCL-005-16
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

Email Address	

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Assignee Information including Non-Applicant Assignee Information:

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

Assignee 1

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

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

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

Signature:

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Signature	/DMMorse/			Date (YYYY-MM-DD)	2015-09-22
First Name	David M.	Last Name	Morse	Registration Number	50505

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	RCL-005-16
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

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

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

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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 C o o p eration Treaty.

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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.

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TITLE

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of 13/612,964 (now U.S. Patent No. 9,143,535), filed September 13, 2012, and entitled *Method and System for Using a Situational Network*, which is a continuation of U.S. Patent Application No. 13/274,712 (now U.S. Patent No. 8,332,454), filed October 17, 2011, and entitled *Creating a Projection of a Situational Network,* which is a divisional of U.S. Patent Application No. 11/924,711 (now U.S. Patent No. 8,069,202), filed October 26, 2007, and entitled *Creating a Projection of a Situational Network*, which claims the benefit of U.S. Provisional Patent Application No. 60/887,843, filed February 2, 2007, entitled *Situational Network*. The entire disclosure of each of these applications is incorporated herein by reference.

[0002] This application is related to U.S. Patent Application No. 11/566,947, filed December 5, 2006, entitled *Aggregating Personal Information in a Personal Information Aggregator*, the entire disclosure of which is incorporated herein by reference.

[0003] This application is related to U.S. Patent Application No. 11/924,706 (now U.S. Patent No. 7,812,717), filed October 26, 2007, entitled *Situational Network*; U.S. Patent Application No. 11/924,721 (now U.S. Patent No. 8,045,455), filed October 26, 2007, entitled *Location Based Services in a Situational Network*; U.S. Patent Application No. 11/924,727 (now U.S. Patent No. 7,711,475), filed October 26, 2007, entitled *Use of a Situational Network for Navigation and Travel*; U.S. Patent Application No. 11/924,731 (now U.S. Patent No. 8,036,632), filed October 26, 2007, entitled *Access of Information using a Situational Network*; U.S. Patent Application No. 11/924,741, filed October 26, 2007, entitled *Searchable Message Board*; U.S. Patent Application No. 11/924,748 (now U.S. Patent No. 8,249,932), filed October 26, 2007, entitled *Targeted Advertising in a Situational Network*; U.S. Patent Application No. 12/731,413 (now U.S. Patent No. 8,000,893), filed March 25, 2010, entitled *Use of a Situational Network for Navigation and Travel;* U.S. Patent Application No. 13/253,374, filed October 5, 2011, entitled *Access of Information Using a Situational Network;* U.S. Patent Application No.

13/274,687, filed October 17, 2011, entitled *Location Based Services in a Situational Network,*; U.S. Patent Application No. 13/274,696, filed October 17, 2011, entitled *Location Based Services in a Situational Network,* and U.S. Patent Application No. 13/274,734, filed October 17, 2011, entitled *Notifications Using a Situational Network.*

BRIEF DESCRIPTION OF THE DRAWINGS

[0004] The following detailed description will be better understood when read in conjunction with the appended drawings, in which there is shown one or more of the multiple embodiments of the present invention. It should be understood, however, that the various embodiments of the present invention are not limited to the precise arrangements and instrumentalities shown in the drawings.

[0005] In the Drawings:

[0006] Fig. 1 is a network diagram of an embodiment of a Situational Network (SitNet);

[0007] Fig. 2 is a use case diagram for the SitNet of Fig. 1;

[0008] Fig. 3 is a use case diagram for a personal information aggregator (PIA) used in accordance with the SitNet of Fig.1;

[0009] Fig. 4 is a class diagram for the structure of the personal information stored in the PIA used in accordance with the SitNet of Fig.1;

[0010] Fig. 5 is a sequence diagram for the interactions associated with a PIA single-use authorization request to receive data from the PIA used in accordance with the SitNet of Fig 1;

[0011] Fig. 6 is a sequence diagram for the interactions associated with a PIA ongoing-use authorization request to receive data from the PIA used in accordance with the SitNet of Fig 1;

[0012] Fig. 7 is a sequence diagram for the interactions associated with a PIA limited-use authorization request to receive data from the PIA used in accordance with the SitNet of Fig 1;

[0013] Fig. 8 is a sequence diagram for the interactions associated with a user-initiated PIA authorization to provide data from the PIA used in accordance with the SitNet of Fig 1;

[0014] Figs. 9 is an activity diagram for the steps performed by the PIA used in accordance with the SitNet of Fig 1;

[0015] Fig. 10 is a sequence diagram for the interactions associated with user-initiated receiving of data by the PIA used in accordance with the SitNet of Fig 1;

[0016] Fig. 11 is a sequence diagram for the interactions associated with an authorization request to provide data to the PIA used in accordance with the SitNet of Fig 1;

[0017] Fig. 12 is a network diagram of an N-Dimensional Social Network (NDSN) used in accordance with the SitNet of Fig 1;

[0018] Fig. 13 is a use case diagram for the NDSN of Fig. 12;

[0019] Fig. 14 is a sequence diagram for the interactions associated with a user discovering an NDSN used in accordance with the SitNet of Fig 1;

[0020] Fig. 15 is a sequence diagram for the interactions associated with a user connecting to other members of an NDSN used in accordance with the SitNet of Fig 1;

[0021] Fig. 16 is a sequence diagram for the interactions associated with a user inviting a new member to connect to the members of an NDSN used in accordance with the SitNet of Fig 1;

[0022] Fig. 17 is a sequence diagram for the interactions associated with a user disconnecting from other members of an NDSN used in accordance with the SitNet of Fig 1;

[0023] Fig. 18 is an example of nodes of the NDSN of Fig. 12;

[0024] Fig. 19 is an example of a projected NDSN used in accordance with the SitNet of Fig 1;

[0025] Fig. 20 is a sequence diagram for the interactions associated with creating a projection of the NDSN used in accordance with the SitNet of Fig 1;

[0026] Fig. 21 is a sequence diagram for the interactions associated with a user connecting to other members of an NDSN used in accordance with the SitNet of Fig 1;

[0027] Fig. 22 is a block diagram of a computer system for realization of the SitNet of Fig.1;

[0028] Fig. 23 is a block diagram of a computer system through which the implementation of the SitNet of Fig. 1 may be realized;

[0029] Fig. 24 is a user case diagram of an emergency event situational network in accordance with the SitNet of Fig. 1;

[0030] Fig. 25 is an example of a propagation of a notification using a PIA in accordance with the SitNet of Fig. 1;

[0031] Fig. 26 is an example of a method of connecting to a weather-dependent social network in accordance with the SitNet of Fig. 1;

[0032] Fig. 27 is an example of presenting targeted advertisements to different users in accordance with the SitNet of Fig. 1;

[0033] Fig. 28 is a use case diagram in accordance with the SitNet of Fig. 1;

[0034] Fig. 29 is an example of temporally limited links in accordance with the SitNet of Fig. 1;

[0035] Fig. 30 is an example of a geographic projection of nodes in accordance with the SitNet of Fig. 1;

[0036] Fig. 31 is an example of an event relative embodiment of a SitNet;

[0037] Fig. 32 is an example of presenting a roll call to a user in accordance with the SitNet of Fig. 1;

[0038] Fig. 33 is an example of a searchable message board that can be used in accordance with the SitNet of Fig. 1;

[0039] Fig. 34 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0040] Fig. 35 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0041] Fig. 36 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0042] Fig. 37 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0043] Fig. 38 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0044] Fig. 39 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0045] Fig. 40 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0046] Fig. 41 is a flow diagram in accordance with the SitNet of Fig. 1;

[0047] Fig. 42 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0048] Fig. 43 is a network diagram of an alternative embodiment of a SitNet;

[0049] Fig. 44 is a network diagram of an alternative embodiment of a SitNet; and

[0050] Fig. 45 is a network diagram of an alternative embodiment of a SitNet.

DETAILED DESCRIPTION

[0051] Certain terminology is used herein for convenience only and is not to be taken as a limitation on the embodiments of the present invention. In the drawings, the same reference letters are employed for designating the same elements throughout the several figures.

[0052] The words "right", "left", "lower" and "upper" designate directions in the drawings to which reference is made. The words "inwardly" and "outwardly" refer to directions toward and away from, respectively, the geometric center of the situational network and designated parts thereof. The terminology includes the words above specifically mentioned, derivatives thereof and words of similar import.

[0053] Unified Modeling Language ("UML") can be used to model and/or describe methods and systems and provide the basis for better understanding their functionality and internal operation as well as describing interfaces with external components, systems and people using standardized notation. When used herein, UML diagrams including, but not limited to, use case diagrams, class diagrams and activity diagrams, are meant to serve as an aid in describing the embodiments of the present invention, but do not constrain implementation thereof to any particular hardware or software embodiments. Unless otherwise noted, the notation used with respect to the UML diagrams contained herein is consistent with the UML 2.0 specification or variants thereof and is understood by those skilled in the art.

[0054] Referring generally to Fig. 1, a situational network 3000 is created when an occurrence or expected occurrence of an event or situation 3005 causes connections, also referred to as links, to be established between, within or among a set of participants 250, 207. The situational network allows the participants 250, 207 to interact and exchange information over connections to or through a computer network 900 regarding the event or situation 3005. Some or all of the participants included in the situational network (SitNet) 3000 may have no prior knowledge of or connection or contact with each other or other participants of the situational network through any other type of social network or personal interactions.

[0055] In the context of the situational network 3000, the participants may include external entities 207, also called situation authorities, central authorities or trusted

providers, that generally are able to aggregate and provide comprehensive information related to the situation. Situation authorities 207 include, but are not limited to news organizations, such as news agencies (e.g., CNN), weather agencies (e.g., The Weather Channel), traffic agencies (e.g., Traffic.com), emergency relief organizations (e.g., The American Red Cross), and government agencies (e.g., local fire departments, state Departments of Transportation, Federal Emergency Management Agency (FEMA)). There is a corresponding situation authority server 3011, also referred to as an event node server, for each situation authority 207. The situation authority server 3011 may be connected to a database 3020 for storing information related to the situation 3005, or data related to other participants in the SitNet 3000.

[0056] Participants in the SitNet 3000 also include users 250, which are alternately referred to as individuals or members. Users 250 are connected via the situational network 3000 using devices 402 such as cell phones, PDA's, personal computers, network servers, PVR's, in-vehicle and portable navigation systems, or other devices generally known to those skilled in the art that enable connection to, from and through the computer network 900. There is at least one device 402 corresponding to each user 250, although a user 250 may use more than one device 402 to access and share information within the situational network 3000. The devices 402 may be connected into the situational network 3000 automatically, by requesting a connection, or by receiving an invitation to connect, each of which is described in greater detail below.

[0057] The connections, or links, established in forming and sustaining the situational network 3000 may be persistent or temporary. A persistent connection allows participants to exchange information without requiring the user to re-authenticate, re-authorize, or re-create the connection. Temporary connections require one or both sides of the link to re-authenticate or re-authorize the connection each time information is to be sent or received. Some temporary links may enable one-time use, such that a new connection, including authorization or authentication, is created each time information is passed between the participants.

[0058] Examples of events or situations 3005 that might initiate the formation of a situational network include weather phenomenon, such as hurricanes, tornadoes, severe thunderstorms, or winter storms; emergency situations, such as building fires, aircraft

crashes, or toxic substance releases; natural disasters, such as earthquakes, tsunamis, or floods; weather related activities, such as skiing or surfing; navigation and/or travel incidents, such as road closures or construction, vehicle accidents, traffic congestion, roadway debris, or air turbulence; and public health crises, such as disease outbreak. Many of these event types are interrelated. For example, there a high correlation between vehicle accidents and freezing precipitation. Thus, it is possible to anticipate or pre-form a situational network based on an expected weather condition or forecast or anticipated road construction.

[0059] If the event or situation is not stationary or changes over time (e.g., in scope or location), such as a weather event with a time-dependent trajectory or size, the participants in the situational network may also change as the situation evolves over time. This embodiment is referred to as an event relative or dynamic SitNet. A change in the characteristics, either actual or forecast, associated with the situation are used to determine which users should be connected to or disconnected from the SitNet. Examples of characteristics for a weather phenomenon include location, size, shape, speed, precipitation rate, wind velocity, and trajectory. Some examples of characteristics that may be associated with navigation situations include location, altitude, visibility, length of traffic backup, and road surface conditions. In one embodiment, the users are connected or disconnected to the SitNet based on their movement relative to the situation.

[0060] Referring to Fig. 31, an example of an event relative SitNet is shown for two different times T1 and T2. At time T1, participants B, D, E, and H are connected to a situation authority in SitNet 3001 that has been established for a cluster of severe thunderstorms 3003. At time T2, in response to the changes in the location and shape of the thunderstorm cluster 3003, participants A, C, F, and I have been added to the SitNet 3001, and participants B, D, and H have been disconnected. Participant E is included in the SitNet 3001 at both time T1 and T2.

[0061] Referring to Fig. 36, the event relative embodiment of the SitNet has a dynamic set of user connections in which links between the participants in the situational network are added or removed as the situation or event changes its geographic location or as the user changes his position relative to the situation. User devices 404, 406 are connected into the situational network when it is determined that users of the devices 404, 406 are

affected by the event or situation. Similarly, users are disconnected from the situational network as the event or situation moves away, the users move away from the situation, or the users are no longer determined to be affected by the event or situation. For example, due to the uncertain nature of hurricane trajectory prediction, the list of users connected to the SitNet may change for each updated forecast of the hurricane, with users determined to be out of the projected hurricane path being disconnected from the SitNet while other users included in the projected hurricane path are added. As the hurricane passes, some users may be disconnected from the network if their area was not adversely affected, while those affected by the storm may remain connected to the SitNet or even be disconnected from the event relative SitNet and invited to connect to a different SitNet for those affected by the Hurricane, possibly requiring emergency assistance or aid by a relief agency.

[0062] A SitNet may be formed when users involved in a situation or event are determined to be in relatively close geographic positions. If the SitNet is not pre-formed or anticipated by the event or situation, but its formation is a result of the occurrence of the event or situation causing the potential members of the SitNet to be within a relatively small geographic area, such embodiment of the SitNet may be referred to as a proximity based SitNet. A proximity based SitNet may be established without the involvement of a situation authority or the creation an event node, described in greater detail below. User devices, such as Personal Information Aggregators (PIAs), discussed in greater detail below, containing a GPS or other geographic positioning devices generally understood by those skilled in the art, can share location coordinates to determine if they are within a proximity limit that has either been preset within the device or predetermined by the user. In one embodiment, PIAs crawling a multi-dimensional personal information network (NDSN), discussed in greater detail below, can locate other PIAs with the same proximity if the PIAs are allowed to share their location coordinates. The users may have no previous interaction or knowledge of each other, but may be related thought their PIAs by a high order separation of nodes in the NDSN (i.e., their PIAs may have indirectly changed information as described below). For example, while traveling internationally, several people without any other prior personal connection or relationship are coincidentally delayed at the same airport. They are alerted to the proximity of the other

users by their PIAs which have established that they share something in common, such as currently reside in the same town, state or county, or have attended the same school or university. A SitNet can be formed through connections established through the PIAs, possibly resulting in a personal meeting between the individuals.

[0063] A proximity based SitNet may be established in response to a request for goods or services (i.e. the need for goods or services is the situation) by an individual. A device associated with an individual broadcasts a message containing a request for goods and/or services. The message also includes positional coordinates. Other devices receiving the request within a close proximity to the requesting device may establish a connection with the requesting device to provide information about the rendering of the service or the availability of the goods. The devices may also be used to facilitate a personal meeting between the device users if the rendering of the service or procurement of goods requires such a meeting. The connections in the SitNet are maintained until the service has been completed by one user with a responding device, or until the goods have been obtained.

[0064] A variety of different architectures may be used to connect the devices of participants in the situational network. In one embodiment, a situational network may be formed using a centralized architecture. Referring to Fig. 43, in a centralized architecture embodiment, user devices 402 in the SitNet 3012 corresponding to users 250 are connected using centralized connections 3013 to a situation authority server 3011 associated with a situation authority 207. Information related to the situation 3005 is shared between the situation authority 207 and the users 250. Information originating from a user 250 in the SitNet 3012 and related to the situation 3005 may be shared with other users 250 in the SitNet 3012 via the situation authority 207. The situation authority 207 may distribute the information as received from the users 250 via the centralized connections 3013 between the situation authority server 3011 and the user devices 402 or perform a verification of the information before distributing the information to the users 250 of the SitNet 3012 through the centralized connections 3013.

[0065] Referring to Fig. 44, the situational network may also be formed using a decentralized architecture, such as a peer-to-peer network understood by one skilled in the art. In Fig. 44, user devices 402 of SitNet 3014 corresponding to users 250 are connected to each other through peer-to-peer connections 3015. The user device 402 may

be connected at the same time to more than one other user device 402. Information related to the situation 3005 is shared using the user devices 402 directly between users 250 using the peer-to-peer connections 3015. Information can be distributed from a user 250 to all other users or a subset of the users in the SitNet 3014.

[0066] In one embodiment, the situation authority acts as a participant in the peer-to-peer network. While the situation authority may act as an important source of information, it does not act as the central authority or host, as would be found in the centralized architecture described above.

[0067] Referring to Fig. 45, both centralized and decentralized architectures may be utilized to form a combined architecture for the situational network. In Fig. 45, the user devices 402 in the SitNet 3016 are connected to the situation authority server 3011 using centralized connections 3013. The user devices 402 are also interconnected with each other using peer-to-peer connections 3015. In the event that the situation authority server 3011 becomes disabled or connectivity between the situation authority 207 and the users 250 is lost, the peer to peer connections 3015 that have been established between the users 250 or corresponding user devices 402 can still allow vital situation information to be exchange between users 250. In one embodiment, the situation authority 207 facilitates the formation of the peer-to-peer connections 3015 by providing users 250 with some type of indication of other users 250 also connected to the situational network 3016 through the situation authority server 3011. One such indication may be a projection of nodes of the SitNet 3016, described in greater detail below.

[0068] Regardless of the architecture used to form and sustain the situational network, the situational network is generally formed according to the process outlined in Fig. 41, which includes a recognition or identification of a situation 3100, a connection of participants 3110, and a sharing of information related to the situation 3120. This is also demonstrated in Fig. 39, where the situation is identified by situation authority 207. Users 256, 256 and situation authority 207 are all interconnected, and able to exchange information. Furthermore, those skilled in the art will recognize that any of the available architectures (e.g., centralized, peer-to-peer, or combination thereof) may be used to form and sustain the various embodiments of the situational network described above, including the event relative (dynamic) SitNet or the proximity based SitNet. Certain

architectures may be more applicable to certain embodiments. For example, the peer-to-peer architecture may naturally be used to form a proximity based SitNet described previously due to the inherent nature of the proximity SitNet. Nonetheless, those skilled in the art will recognize that a centralized or combination architecture may also be used for the proximity based SitNet depending on the particular situation and/or connections available.

[0069] In one embodiment, the situational network may be established using the framework of an N-dimensional social network (NDSN), also referred to hereafter as a multi-dimensional personal information network, as described in detail below. In this embodiment, users are connected into the situational network through the NDSN using a PIA. In the context of the NDSN, a PIA associated with each user is or encompasses a node of the situational network. The situation or event itself may also be associated with a node on the SitNet, known as the event node for the SitNet. For example, an entity, such as a trusted provider of information (e.g., a news source such as CNN or weather.com), establishes an event node in an NDSN that propagates up-to-date information on the situation to PIAs of the NDSN connected to that event node. In one embodiment, the SitNet may have more than one event node.

[0070] Referring to Fig. 2, user PIAs connected to an event node using the connect use case 972 in the SitNet 3000 may discover each other using the discover use case 971, described below. Personal or situation relevant information is shared between the users using the share use case 977. In addition, connections between PIAs, also called links, may be established where one or both of the PIAs are not linked directly to the event node, wherein a direct link to the event node is also referred to as a first order connection. In one embodiment, the SitNet can be formed in the absence of an event node, such as in a de-centralized (peer-to-peer) architecture as described above.

[0071] A Personal Information Aggregator (PIA) provides a user with the ability to store, organize and control personal information. The PIA obtains personal information that may be controlled by separate entities (e.g., credit reporting agencies, financial institutions and merchants), aggregates the information and organizes the information in manners that have been selected by the user. The user controls access to the personal information stored in the PIA by authorizing access by other entities to subsets of the

personal information stored in the PIA. In many cases, the use of the authorized information is bound and restricted by legal contract, and therefore, the user has legal remedies available to enforce proper use of the information.

[0072] The user of a PIA can be any person, group or entity that wishes to manage and control his (or its) personal information. For example, a family can use a PIA to aggregate personal information that the family members have in common (place of residence, family vacations, etc.).

[0073] An entity that accesses the information stored in a PIA can be an individual person, a group, entity or equipment (e.g., digital video recorder) or software (e.g., web browser) that has been configured to access the PIA. The nature and composition of a group that accesses a PIA can encompass a broad range of organizations, e.g., a health clinic, an auto dealership, a coin collectors club, etc.

[0074] The personal information obtained by and/or stored in a PIA encompasses a broad array of types of information about a person's life, social interactions, health and healthcare, consumer behavior including consumer purchases, entertainment consumption and habits, fitness activity, travel, financial, employment, education, hobbies and personal computing and/or other aspects of a person's world that can be reduced in any way to data. The personal information stored in the PIA is obtained from a variety of sources, including input data feeds that are generated by providers of goods and services, healthcare providers, organizations, clubs, social contacts and other persons and entities. In addition, personal information stored in the PIA may be entered directly by the user.

[0075] In some cases, there may be data regarding the user that is contained on the Internet, private networks, or in personal data storage. In one embodiment, the PIA "crawls" such networks or storage areas, searching for information to add to its store of personal information associated with the user.

[0076] A community information aggregator (CIA) performs functions that are similar to those of a PIA for a community of users (e.g., an association of architects or a chess club) A CIA provides a community with the ability to store, organize and control information associated with the community and personal information associated with members of the community. The CIA obtains, aggregates and organizes such

information, and makes the information available to other authorized entities in a manner similar to that described herein with respect to PIAs.

[0077] A CIA may obtain data by searching other sources of information, e.g., web sites on the Internet. In one embodiment, a CIA gathers information about a user that is not published by that user's PIA by crawling public and/or private information sources. In one embodiment, a marketer's CIA uses a known piece of information about a user to search for and store additional information about the user. For example, a user's known e-mail address can be used to locate Internet postings of product reviews, blog postings and comments, listings in membership directories or other information associated with the user. This additional information could be used as input for recommendations targeted to the user.

[0078] A user controls the information coming in to the PIA by granting authorization to desired sources and denying authorization to unwanted sources. The source of the information may request authorization to provide information to the PIA. Alternatively, the user or the PIA may initiate the operation of receiving data from a source. The authorized information received by the PIA is organized and stored in the PIA. The PIA generates composite and derived output data feeds from the stored personal information. These data feeds may be accessed by providers of goods and services, healthcare providers, communities (e.g., organizations and clubs), social contacts, CIAs, other PIAs and other persons and entities if authorized by the user In some embodiments, the PIA can be configured to notify the user or automatically reject requests from entities known to be invalid, such as spammers.

[0079] Referring to Fig. 3, an entity 207 requests authorization for access to a user's PIA 400 by using the Request Authorization use case 954. The user 250 can authorize the request using one of the access type use cases 957 (e.g., Allow Single-use Access, Allow Ongoing Access, Allow Limited Access) of the Authorize use case 950. If authorized, the entity 207 may access the requested output data feed of personal information if the request was for access by using the Access Information use case 956. Similarly, the entity 207 may provide information to the requested input data feed of the PIA if the request was to provide data by using the Provide information use case 955. It should be noted that an entity 207 is not limited to authorization for a single feed, nor is an entity 207

limited to an exclusively input or output role. Rather, an entity 207 may have authorization to concurrently access one or more input data feeds and provide data to one or more input data feeds.

[0080] The personal information stored by the PIA may reside in data structures that are implemented as tables in a relational database management system (DBMS) and that can be accessed by the PIA's application program. Fig. 4 illustrates an example of data structures used to store the personal information in a PIA. In Fig. 4, each data structure used to store information in the PIA is represented by a programming class in an object-oriented language (e.g., Java or C++), and the type of information stored in the PIA for each class of data is represented by the attributes of the class.

[0081] Those skilled in the art will recognize that there are many types of personal information that can be stored in the PIA 400. Similarly, the design of the data structures used to store the information can vary greatly, depending on various factors such as the design requirements for the PIA (e.g., response time) and the selected platforms used to implement the PIA (e.g., DBMS, operating system, etc.).

[0082] An Upload Data use case 960 (see Fig. 3) allows entities 207a to upload data to be stored in the PIA 400; the Review Data 961 use case allows the user 250 to review the uploaded data.

[0083] In one embodiment, the user 250 controls access to both the input and output data feeds of the PIA. Specific authorization must be granted to allow an input data feed to be accepted by the PIA 400. Similarly, specific authorization must be granted to allow access to an output data feed provided by the PIA. Authorization can be granted by various mechanisms. Those skilled in the art will recognize that an authorization request may be sent to the PIA using a wide variety of available hardware and technologies generally known in the art.

[0084] Authorization may be granted only for a "single use" of a data feed. For example, a user might grant authorization for an insurer to access a composite "Medical Record" output data feed for only a single use in order to process an insurance claim. Alternatively, the authorization might also be contingent upon the agreement that any data received from the output data feed is to be destroyed after the single use of the data.

[0085] The authorization request might also specify a "nature of use" for the requested data. For example, a healthcare provider might specify in an authorization request that the data will only be used by a specified doctor during a specified episode of care.

[0086] Authorization might be granted for only a portion of the requested data. This situation might be handled by creating one or more data feeds that contain only the authorized subset of the requested data.

[0087] Fig. 5 depicts the interactions associated with a PIA single-use authorization request in one embodiment of the invention. The External Entity 207 sends a requestInformationAccess message to the PIA 400, with arguments indicating the requested data feed (FeedID) and the nature of the request ("Single Use"). Upon receiving the request from the External Entity 207, the PIA 400 sends a UI message to the user 250. The arguments of the UI request provide the ID of the entity (EntityID), the nature of the request, the ID of the requested data, and the text to be displayed to the user ("requests …"). The User 250 responds by sending an authorize message to the PIA 400, passing back in the message's arguments the entity's ID, the nature of the authorization ("Single Use"), and the data feed (FeedID) for which authorization is granted. The PIA 400 notifies the External Entity 207 that the authorization has been granted by sending it a grantAccess message with arguments indicating the nature of the authorization and the data feed for which authorization is granted.

[0088] After receiving notification of the authorization, the External Entity 207 sends the PIA 400 a requestData message with an argument specifying the data feed that is being requested. If the feed ID matches that for which authorization has been granted, the PIA 400 responds by sending the requested data to the External Entity 207 in a provideData message. After receiving the requested data from the PIA 400, the External Entity 207 uses the data (useData). Since the authorization was for a single use, the External Entity 207 destroys the data (destroyData) after its use. To notify the PIA 400 of the data's destruction, the External Entity 207 sends a dataDestroyed message, which the PIA 400 passes on to the User 250. In one embodiment, the PIA 400 might utilize a timer to remind itself to check for notification that the data has been destroyed, and to send a message to the user 250 if not notified within a prescribed time period.

[0089] Fig. 6 depicts the interactions associated with an ongoing-use authorization request in one embodiment of the invention. The External Entity 207 sends a requestInformationAccess message to the PIA 400, with arguments indicating requested data feed (FeedID) and the nature of the request ("Ongoing"). Upon receiving the request from the External Entity 207, the PIA 400 sends a UI message to the user 250. The arguments of the UI request provide the ID of the entity (EntityID), the nature of the request, the requested data feed, and the text to be displayed to the user ("requests …"). The User 250 responds by sending an authorize message to the PIA 400, passing back in the message's arguments the entity's ID, the nature of the authorization ("Ongoing"), and the data feed for which authorization is granted. The PIA 400 notifies the External Entity 207 that the authorization has been granted by sending it a grantAccess message with arguments indicating the nature of the authorization and the data feed for which authorization is granted.

[0090] After receiving notification of the authorization, the External Entity 207 sends the PIA 400 a requestData message with an argument specifying the data feed that is being requested. If the feed ID matches that for which authorization has been granted, the PIA 400 responds by sending the requested data to the External Entity 207 in a provideData message. After receiving the requested data from the PIA 400, the External Entity 207 uses the data (useData). Since the authorization is for ongoing access, this cycle of a requestData message followed by a provideData message continues indefinitely.

[0091] Fig. 7 depicts the interactions associated with a limited-use authorization request. In this example, authorization is granted for limited use of a data feed, and the authorization is revoked on a specific termination date or due to some other set of termination conditions. For example, the travel department at the user's employer might be granted authorization to access a composite Travel Preferences input data feed so long as the user is still employed by the employer. The PIA 400 keeps a persistent record of the authorization, so that authorization needs only to be granted once, rather than repeatedly, and revokes the authorization if the employment is terminated.

[0092] The External Entity 207 sends a requestInformationAccess message to the PIA 400, with arguments indicating the requested data feed (FeedID) and the nature of the

request (”Limited”). Upon receiving the request from the External Entity 207, the PIA 400 sends a UI message to the user 250. The arguments of the UI request provide the ID of the entity (EntityID), the nature of the request, the requested data feed, and the text to be displayed to the user (“requests …”). The User 250 responds by sending an authorize message to the PIA 400, with arguments that specify the entity’s ID, the nature of the authorization (“Limited”), the termination criteria (endCondition) and the data feed for which authorization is granted. The PIA 400 notifies the External Entity 207 that the authorization has been granted by sending it a grantAccess message with arguments indicating the nature of the authorization, the termination conditions and the data feed for which authorization is granted.

[0093] After receiving notification of the authorization, the External Entity 207 sends the PIA 400 a requestData message with an argument specifying the data feed that is being requested. If the feed ID matches that for which authorization has been granted, the PIA 400 responds by sending the requested data to the External Entity 207 in a provideData message.

[0094] After receiving the requested data from the PIA 400, the External Entity 207 uses the data (useData) and then, since the authorization was for limited use, checks for the existence of the termination conditions (checkCondition). If the termination conditions are met, the External Entity 207 destroys all of the data (destroyData) which it has received under this authorization. To notify the PIA 400 of the data’s destruction, the External Entity 207 sends a “dataDestroyed” message, which the PIA 400 passes on to the User 250. In another embodiment, the PIA 400, instead of the external entity, might check for the termination conditions, and notify the external entity 207 when the conditions are met.

[0095] In an alternate embodiment, the user 250, instead of the external entity, might initiate the authorization. Fig. 8 depicts the interactions associated with a PIA authorization request for such a situation. Although an ongoing authorization request is shown in the example of Fig. 8, it is understood that a user-initiated authorization request may also be for single or limited use. In Fig. 8, the User 250 initiates the authorization by sending an authorize message to the PIA 400, with arguments that specify the entity’s ID (EntityID), the nature of the authorization (authorizationType), and the data feed

(FeedID) for which authorization is granted. Upon receiving the authorization from the User 250, the PIA 400 notifies the External Entity 207 of the authorization by sending an accessGranted message with an argument specifying the nature of the authorization and identifying the authorized data feed.

[0096] After receiving notification of the authorization, the External Entity 207 sends the PIA 400 a requestData message with an argument specifying the data feed that is being requested. If the feed ID matches that for which authorization has been granted, the PIA 400 responds by sending the requested data to the External Entity 207 in a provideData message. After receiving the requested data from the PIA 400, the External Entity 207 uses the data (useData). Since the authorization is for ongoing access, this cycle of a requestData message followed by a provideData message continues indefinitely.

[0097] With regard to the receipt of input data feeds by the PIA 400, the user 250, in one embodiment, might request the PIA 400 to receive data from the external entity. Fig. 10 depicts the interactions associated with such a situation. The User 250 requests the PIA 400 to receive a data feed from the External Entity 207 by sending a receiveRequest message to the PIA 400. The PIA 400 requests the data feed from the External Entity 207 by sending a requestData message to the External Entity 207. The External Entity 207 provides the requested data feed to the PIA 400 by sending the provideData message to the PIA 400. After receiving the requested data from the External Entity 207, the PIA 400 stores the data.

[0098] It should be noted that in another embodiment, the External Entity 207 may be configured to provide data to the PIA 400 once the PIA has configured itself to accept the data feed from the External Entity 207, and thus, the requestData message would be eliminated from the interaction.

[0099] In an alternate embodiment, the External Entity 207 requests authorization to provide data feeds to the PIA 400. Fig. 11 depicts the interactions associated with such a situation. The External Entity 207 requests authorization to provide data to the PIA 400 by sending a requestInformationAccess message to the PIA 400. The PIA 400 notifies the User 250 of the authorization request by sending a UI message to the User 250. The User 250 approves the authorization request by sending an authorize message to the PIA 400.

The PIA 400 notifies the External Entity 207 of the approval by sending a grantAccess message to the External Entity 207. The External Entity 207 provides the requested data feed to the PIA 400 by sending the provideData message to the PIA 400. After receiving the requested data from the External Entity 207, the PIA 400 stores the data.

[00100] In any interaction in which the PIA receives data from an external entity, an additional operation might be used to authenticate the source of the data, i.e., the external entity and the data feeds provided by that source. A person skilled in the art will recognize that there are various well-known technologies that might be used to provide this assurance; some examples are the use of public and private keys, digital signatures and hashcodes.

[00101] Fig. 9 is an activity diagram corresponding to an Authorize activity. In the depicted embodiment, the requesting entity has an associated security level. This security level is used as an additional condition for obtaining access to the PIA's data feeds. The PIA receives an authorization request and checks the requesting entity's security level. If the security level is allowable for the requested data feed based on the entity's security level and the nature of the authorization request (single-use, limited use or ongoing), then the PIA next determines if it will authorize the request based on factors independent of the entity's security level. In one example, the user may only allow a certain entity access during normal work day hours, and not during the evening or on weekends. In another example, an entity may only be allowed single-use access, and therefore the entity will be refused authorization if ongoing or limited use is requested.

[00102] A PIA, depending upon the particular embodiment, may present user interface displays to the user for managing the user's personal information. In one embodiment, the user interface (UI), which may be a GUI or a text-based interface, may be presented on a computer display screen. Alternatively, the user interface may be presented on the display of a PIA appliance, or on a smaller screen contained within a handheld device associated with the PIA.

[00103] The PIA 400 or CIA may be implemented on a variety of hardware and software platforms, e.g., a handheld device, a personal computer or a dedicated appliance. The latter is a device that provides a user with the functions of a PIA 400. In this example, the PIA 400, which is implemented as the appliance includes a display and a set

of buttons which provide the user with a user interface. In addition, the PIA appliance in this example has a port which may be used for connecting the PIA appliance to a network (e.g., Internet) for transmitting and receiving input and output data feeds as well as any configuration information or data used by the PIA 400. Those skilled in the art will recognize that the PIA 400 and the CIA may be implemented on a variety of hardware and software platforms.

[00104] Similarly, the type of hardware that is used by the PIA to store personal information can vary considerably, depending in part on such factors as user preferences and available technologies. In one embodiment, the personal information is stored in a device that is under the physical possession and control of the user, e.g., a small handheld portable device. The device may be dedicated solely to providing the functions of a PIA; alternatively, the device may also have other functions. For example, a mobile phone may be configured to provide the additional functions of a PIA. In such an embodiment, a database management system (DBMS) such as Microsoft SQL Server CE™ might be used for storing and managing the personal information.

[00105] In other embodiments, the personal information is stored in other types of devices that are under the physical possession and control of the user, e.g., the user's personal computer or a dedicated PIA appliance. In these embodiments, a database package such as Microsoft Access™ or a DBMS such as Microsoft SQL Server™, mySQL or postgreSQL might be used for storing the personal information.

[00106] The computer network 900 may be implemented with a variety of hardware platforms. For example, the computer network 900 may be implemented using the IEEE 802.3 (Ethernet) or IEEE 802.11 (wireless) networking technologies, either separately or in combination. In addition, the computer network 900 may be implemented with a variety of communication tools. For example, the computer network 900 may be implemented using the well-known TCP/IP suite of protocols. The Internet and some corporate intranets are examples of computer networks that use the technologies and standards described above.

[00107] In yet another embodiment, the personal information is stored in a remote server that is operated by a separate PIA provider and provides "virtual" PIA functions to one or more users. The PIA provider operating the remote computer ensures that the user

has exclusive control over his personal information by providing one or more mechanisms for validating the user's identity before allowing the user to exercise control over his personal information. In this embodiment, a DBMS such as IBM DB2™ or mySQL might be used for storing and managing the personal information

[00108] Those skilled in the art will recognize that there are a wide variety of choices other than the examples given above regarding the selection and arrangement of the equipment, technologies, platforms and systems used to store personal information in the PIA.

[00109] The technologies used by the PIA to send and receive its data feeds are varied and depend upon the specific embodiment. In one embodiment in which the PIA is implemented on a handheld device, the technologies include Bluetooth for local feeds and wireless short message service (SMS) for remote feeds. Bluetooth is used to establish a data connection between the PIA and a blood pressure monitor in a physician's office, and this data connection is used to send the blood pressure measurements taken by the monitor the PIA. SMS is used to send the latest healthcare information, which includes blood pressure measurements, to the PIA.

[00110] In an embodiment in which the PIA is implemented on a personal computer or a remote computer, Internet access through an Internet Service Provider (ISP) might be used for sending and receiving data. In this embodiment, the ISP might provide access to the Internet as a dial-up service, or through a higher-speed technology such as broadband or DSL. Since the Internet can expose the data being sent and received to unauthorized persons and systems, the data feeds, in this embodiment, might be encrypted, e.g., by using the HTTPS protocol, or by implementing a virtual private network (VPN) between the PIA and the sources and receivers of the data feeds.

[00111] An N-dimensional social network (NDSN), also called a multi-dimensional personal information network, captures and manages multi-dimensional relationships between persons and other entities that are users of the network. An NDSN may be used as a framework for establishing a Situational Network. A user (i.e., a member or participant) of the NDSN may be an individual (i.e., person), a group (e.g., healthcare clinic, law firm, supermarket chain, etc), or entity. The NDSN uses multiple dimensions of association to characterize the relationships between users or members. For example,

while friendship is a dimension that might be used by the NDSN, the NDSN might also utilize other dimensions such as family, professional connection, consumer (e.g., consumer-to-merchant) relationship and healthcare-relation (e.g., providers, insurers, etc.) to characterize the relationship between two or more users. In addition, the NDSN might utilize dimensions that link participants by preferences and behaviors, e.g., a preference for a type of product or service.

[00112] The NDSN permits the user to discover and utilize the indirect relationships to other users that are connected to him through first-degree users. The multiple dimensions of the NDSN 100 and the ability to discover and use indirect relationships are described in more detail below. The NDSN also provides a decentralized architecture outside the control of a single entity.

[00113] The NDSN can also provide a "projected" view of a subset of the members of the NDSN to the user based on a subset of the NDSN's multiple dimensions. Such a "projected" view allows the user to use and manage smaller portions of the entire social network. The projected social network is described in more detail below.

[00114] In one embodiment, the NDSN comprises interconnected nodes, where individual users, members, entities, communities, or other aggregations of entities within the NDSN are associated with the nodes. Each node provides an associated entity with the ability to store and manage his profile and relationships with other users of the NDSN. Nodes may connect via different dimensions. Sets of nodes may exhibit high interconnectedness along some dimensions and little or no interconnection along other dimensions.

[00115] Each node is capable of communicating in a peer-to-peer fashion with other nodes in the NDSN, and thus is a user's point of connection to the NDSN, providing a user with access to information that can be obtained from other users of the NDSN with whom the user has a relationship. Conversely, a node provides a user with the ability to selectively share (by providing access to) his personal information with other users of the NDSN. A node may be, or may encompass, a user's PIA or CIA.

[00116] Referring to Fig. 12, the NDSN 100 includes multiple users 250 and other entities associated therewith. Each of the users 250 or other entities of the NDSN 100 has an associated node which encompasses a PIA 400 or a CIA 220 or other device or

software application (not shown). The PIAs 400 and CIAs 220 can be interconnected through the computer network 900.

[00117] Those skilled in the art will recognize that a node of the NDSN 100 may be implemented using a wide variety of available hardware and technologies generally known in the art, such as software on a personal computer or a handheld PDA. In addition, those skilled in the art will recognize that the nodes of the NDSN 100 may be interconnected and may communicate with each other using a wide variety of available hardware and technologies generally known in the art, such as TCP/IP over an Ethernet or a wireless network. In one embodiment, some users may have their nodes hosted in a common location, e.g., on a local or remote server.

[00118] A user's PIA 400 provides various functions that permit the user to connect to and interact with other members of the NDSN 100. Referring to Fig. 13, a user 250 employs the Discover use case 971 to discover the existence of other members of the NDSN 100. The user 250 may or may not have prior knowledge of the existence of members of the NDSN 100, and therefore, may not need to discover the existence of the members of the NDSN 100. The user 250 employs the Connect use case 972 to connect to other members of the NDSN 100 and configures his user profile by utilizing the Configure 973 use case. Once connection to other members of the NDSN 100 is established for the user 250, the user 250 can invite a new member 251 to connect to members of the NDSN 100 by utilizing the Invite use case 974. The user 250 employs the Request Projection 975 use case to obtain a projection of the NDSN. If the user 250 decides to disconnect himself from the other members of the NDSN 100, he employs the Disconnect use case 976. The new member 251 can similarly employ the use cases (Discover 971, Connect 972, Configure 973, Invite 974, Request Projection 975 and Disconnect 976) as described above.

[00119] The NDSN 100 captures multiple various dimensions of the relationship between two users. The dimensions that are captured are wide-ranging and can cover many aspects of a user's life. Each relationship between two users in the NDSN 100 may have an attribute of affinity, i.e., trust or alignment. This permits the NDSN to characterize a relationship between users along a continuous range, rather than treating the relationships in a binary (i.e., true or false) fashion. For example, rather than

characterizing another user as simply a friend (or not), the NDSN user can characterize the level of trust that he has in another user with whom he is related by friendship; in other words the NDSN can capture the level of friendship between two users.

[00120] In other embodiments, the multiple relationships between two users may have a single affinity attribute, as opposed to one affinity attribute per relationship. The value of the affinity attribute may be derived from the user attributes (which may be contained in the user profile) of one or both of the related nodes. For example, if both related users each have a user attribute that identifies them as basketball fans, then the derived affinity attribute along a Sports dimension would have a value of 0.9. However, if only one of the users has a user attribute that identifies him as a basketball fan, then the derived affinity attribute might have a lower value of 0.6.

[00121] Those skilled in the art will recognize that there are numerous well-known software and hardware technologies that may be utilized to implement the attributes of the users of the NDSN 100 and the attributes of the associations between the users.

[00122] A node of the NDSN 100 is connected to another node by one or more degrees or separation. A connection from one node directly to another node is considered to be of first-degree separation; a connection that goes indirectly through one other node is of second-degree separation; a connection that goes indirectly through two other nodes is of third-degree separation, and so on. In the example of Fig. 18, nodes a_{11}, a_{12} and a_{13} have first-degree separation from node a_0; nodes a_{21}, a_{22} and a_{23} have second-degree separation from a_0; and nodes a_{31} and a_{32} have third-degree separation from a_0.

[00123] Two nodes that are separated by two or more degrees of separation are indirectly connected. Either of such indirectly connected nodes may attempt to establish a direct connection with the other node, thus reducing the degree of separation to one.

[00124] A user might desire to work with a "projected" view, i.e., a subset of the nodes, of the NDSN 100. Such a desire might be based, for example, on a need to increase processing speed and reduce resource requirements such as CPU speed and memory size. A user can obtain a "projected" view of the NDSN 100, by employing the Request Projection use case 975 (see Fig. 13). Referring to Fig. 19, Node A and Node B are connected to the user 250. The relationship between the user 250 and Node A has components in three dimensions: Music 106, Politics 107 and Cooking 105, while the

relationship between the user 250 and Node B has components in the Music 106 and Politics 107 dimensions, but not the Cooking dimension 105. In Fig. 19, the projected view 101 of the NDSN 100 includes those nodes (i.e., Node A) of the NDSN 100 that reside along a selected projection of the Cooking dimension 105 (and not the Music or Politics dimensions 106, 107). Nodes that reside in the two-dimensional plane formed by the Music dimension 106 and the Politics dimension 107 (i.e., Node B) are thus not included in the projected view 101 of the NDSN 100, since they do not include a Cooking component. A projection of the NDSN 100 may also be obtained along multiple dimensions.

[00125] The affinity attributes between nodes of the NDSN 100 may also be used to determine the set of nodes that form a projection of the NDSN 100. For example, the set of nodes in a projection of the NDSN 100 might include those nodes that have a cooking dimension relationship with the user 250 and additionally have an affinity attribute along that dimension that exceeds a specified threshold.

[00126] Fig. 20 depicts an example of the interactions associated with creating a projection of the NDSN 100. In Fig. 20, the User 250 requests a projection by sending a requestProjection message to PIA1 211. PIA1 211 then requests a second projection by sending a requestProjection message to PIA2 212. PIA2 212 creates the second projection by sending itself a createProjection message, and provides the second projection by sending a projection message to PIA1 211 containing the argument projectionTree which holds the second projection. PIA1 creates the projection requested by the user by sending itself a createProjection message. The projection created by PIA1 211 is based on the second projection received from PIA2 212. In some embodiments, the projection created by PIA1 211 is further based on other projections requested and received from other PIAs (not shown).

[00127] In other embodiments, thresholds are employed to limit the extent of a requested projection. For example, a time limit may be imposed on the operation of creating a projection, i.e., the operation will terminate after a specified duration of time. As another example, a limit on the number of nodes contained in the projection may be used to place an upper bound on the size of the projection.

[00128] In some embodiments, a maximum measure of separation, which can be measured in various ways, may be used to limit the projection operation. In one embodiment, the User 250 specifies the maximum degree of separation, and the PIA1 211 requests a second projection from PIA2 212 with a maximum degree of separation that is one less than the degree specified by the User 250.

[00129] A user node in the NDSN 100 may contain the user's profile, which may include information regarding the user's basic personal information (e.g., name, home address, work address, e-mail addresses and date of birth), demographics (e.g., age, age group, gender, years of education, income, net worth, occupation, marital status, geographic region, religion, ethnicity, etc.), user attributes, interests, affiliations and other information that can be used in the NDSN to characterize the user. The user node, which in some embodiments is a PIA, may collect some of this information without requiring direct entry by the user. Such information is extracted by monitoring, processing and analyzing data that enters the PIA through its input data feeds. The user also may have the option of directly entering, reviewing and modifying his user profile; these actions can be performed on a variety of types of devices or equipment that may provide the user with data connections to the other nodes of the NDSN, including, e.g., a PIA, a CIA, a personal computer, or a handheld device (e.g., a cell phone or personal digital assistant (PDA)).

[00130] As described above, a user 250 may have no prior knowledge of the existence of the members of the NDSN 100, and may choose to see if he can discover the existence of members of one or more NDSNs. Members of an NDSN may be discovered in various ways, including broadcasting a query, querying a CIA, querying neighboring nodes and querying other directories.

[00131] A node may be able to discover other nodes by broadcasting a message on the local network. Upon receipt of the broadcast message one or more of the other nodes may respond to the issuing node with, e.g., a list of available public feeds (if the node is a PIA), or other information.

[00132] A CIA may maintain a list of PIAs that can be accessed by another PIA such that direct connections to the member PIAs may be established. This would allow a member to easily find other members of a particular community. For example, a CIA

associated with a chess club might have a list of its members, as well as lists of members of other chapters of the club, and thus would be able to provide a convenient way to find and connect with other chess players.

[00133] A node may also locate other nodes by querying known neighbor nodes and asking them for addresses of nodes of which they have knowledge that meet certain criteria. For instance, a node may ask its neighbors for addresses of their neighbors that are members of a certain demographic. The process could then be repeated with that new set of addresses obtained in the responses.

[00134] A user 250 may attempt to discover the existence of members of one or more NDSNs by employing the Discover use case 971 (see Fig. 13). Referring to Fig. 14, the User 250 requests PIA1 211 to attempt to discover the existence of members of an NDSN by sending a DiscoverNDSN message to PIA1 211. In order to satisfy this request, PIA1 211 utilizes a list (not shown) of candidate PIAs, i.e., those that may be members of an NDSN. This list may be generated by various techniques (not shown), e.g., by crawling the Internet or by contacting a registry that stores the identities of PIAs.

[00135] In the example of Fig. 14, the list of candidate PIAs used by PIA1 211 includes PIA2 212 and PIA3 213. PIA1 211 asks PIA2 212 if it is a member of an NDSN by sending a QueryNDSN message to PIA2 212. PIA2 212 responds that it is a member of an NDSN by sending an NDSNMember message to PIA1 211 containing the argument ndsn which identifies the particular NDSN of which PIA2 212 is a member. Similarly, PIA1 211 sends a QueryNDSN message to PIA3 213. PIA3 213 neither is a member of an NDSN nor understands the QueryNDSN message, and thus it does not respond to PIA1 211. After a timeout period has elapsed, PIA1 211 sends itself a timeout message to note that PIA3 213 has not responded. PIA1 211 satisfies the request from the User 250 to discover the existence of members of an NDSN by sending a ReportNDSN message to the User 250 with an argument ndsn that identifies the discovered NDSN.

[00136] Those skilled in the art will recognize that techniques of crawling the Internet and providing a registry are well-known in the art, and furthermore that a variety of other techniques may be utilized to generate the list of candidate PIAs.

[00137] To connect to members of the NDSN, a user employs the Connect use case 972 (see Fig. 13). In the example of Fig. 15, the User 250 asks PIA1 211 to connect to an

NDSN by sending a ConnectNDSN message to PIA1 211 with arguments that contain his user profile (UserProfile) and identify the NDSN (ndsn). PIA1 211 utilizes a list (not shown) of PIAs that belong to the NDSN. This list may be generated by various techniques (not shown), e.g., by crawling the Internet or by storing the identities of the PIA that have been discovered by employing the Discover use case 971 (see Fig. 13).

[00138] In the example of Fig. 15, the list of PIAs used by PIA1 211 includes PIA2 212. PIA1 211 informs PIA2 212 that the User 250 is becoming a new member of, i.e., connecting to the NDSN, by sending a NewMember message to PIA2 212 with an argument ndsn identifying the NDSN, and an argument NewMember identifying the PIA (PIA1 211) owned by the new user (User 250). PIA2 212, as a PIA of an existing member of the NDSN, has a list of PIAs owned by other members of the NDSN, which are unknown to the new member, User 250. In the example of Fig. 15, this list includes PIA3 213. PIA2 212 sends a NewMember message to PIA3 213 and the other PIAs (not shown) on the list with an argument ndsn identifying the NDSN, and an argument NewMember identifying the PIA (PIA1 211) owned by the new user (User 250). Each PIA on the list sends the NewMember message to other PIAs (not shown), thus propagating the news of the new member to other members of the NDSN.

[00139] PIAs that are thus informed of the existence of the new member, User 250, may decide to connect to PIA1 211. In the example of Fig. 15, PIA3 213 connects to PIA1 211 by sending a Connect message to PIA1 211 with arguments that contain a user profile corresponding to the owner of PIA3 213 (UserProfile) and identify the NDSN (ndsn).

[00140] Fig. 21 provides another example of a PIA connecting to the NDSN 100. The User 250 instructs PIA1 211 to connect to other nodes of the NDSN 100 along a specific dimension by sending a connectNodes message with an argument dimension identifying the specified dimension to PIA1 211. PIA1 211 searches the NDSN 100 for nodes along the specified dimension by sending itself a searchNodes message. In this example, PIA2 212 is included in the nodes found by PIA1 211. PIA1 211 then requests to connect to PIA2 212 by sending a requestConnect message to PIA2 212. PIA2 212 grants the connection request by sending a grantConnect message to PIA1 211. PIA1 211 then connects to PIA2 212 by sending a Connect message to PIA2 212. PIA1 211 informs the

User 250 that the requested connections have been made by sending a connectedNodes message to the User 250.

[00141] To invite a new member to connect to the members of the NDSN 100, a user employs the Invite use case 974 (see Fig. 13). In the example of Fig. 16, the User 250 asks PIA1 211 to invite User2 252 to connect to the members of the NDSN by sending an InviteNewMember message to PIA1 211 with an argument ndsn identifying the NDSN, and an argument NewMember identifying the potential new user (User2 252). PIA1 211 sends an Invite message to PIA2 212 with an argument ndsn identifying the NDSN.

[00142] PIA2 212 might inform User2 252 by displaying a user interface prompt announcing the invitation (not shown). To accept the invitation, PIA2 212 responds by sending a Connect message to PIA1 211 with arguments that contain User2's user profile (UserProfile) and identify the NDSN (ndsn). If PIA2 212 were to decline the invitation, then PIA2 212 would respond by sending a Decline message (not shown) to PIA1 211.

[00143] PIA1 211 also sends a NewMember message to PIA3 213 and other members of the NDSN (not shown), with an argument ndsn identifying the NDSN, and an argument NewMember identifying the PIA (PIA2 212) owned by the new user (User2 252). As described in the example of Fig. 15, the news of the new member is thus propagated to other members of the NDSN. PIA1 211 sends an Accepted message to the User 250, informing the User 250 that User2 252 has accepted the invitation to connect to members of the NDSN.

[00144] To disconnect from other members of the NDSN, the user may employ the Disconnect use case 976 (see Fig. 13). In some embodiments, a user's PIA stores the addresses of PIAs that belong to the members to whom the user is connected. In the example of Fig. 17, the User 250 asks PIA1 211 to disconnect from the members of the NDSN by sending a DisconnectNDSN message to PIA1 211 with arguments ndsn and Member identifying the NDSN and the member. PIA1 211 sends a Disconnect message to PIA2 212 and other PIAs (not shown) that it is connected to, with an argument ndsn that identifies the NDSN.

[00145] The user 250 may configure the PIA to permit a connection for one or more specific user attributes between him and other users. In this manner, users can easily connect with each other based on common interests, demographics or other factors. A

user employs the Configure use case 973 (see Fig. 13) to configure his NDSN node. For example, a user may configure his PIA to allow connections to any PIA that belongs to a user who coaches volleyball.

[00146] As discussed above, an embodiment of a situational network may be formed using the framework of an NDSN. Within the framework of the NDSN, the event or situation becomes associated with a node of the NDSN, referred to as an event node 3010. Referring to Fig. 35, the event node corresponding to an event node server 3011 may be established, or hosted, by a situation authority 207 or trusted provider, such as news source (e.g., CNN or weather.com) or a government agency. The event node may be discovered by a user's PIA 404 corresponding to the user 250 based on the PIA 404 searching or crawling the network for information about the situation or event if the connection can not be automatically established based on the configurations of the PIA 404 and the event node server 3011. A user 250 can then request connection to the event node server 3011 through the PIA 404 in order to receive and share information about the situation with the situation authority 207. A user 250 may also share information related to the situation with another user in the NDSN using a connection established between the user's PIA 404 and another PIA 406. PIA 406 may or may not be connected to the event node server 3011. In one embodiment, the connection request may be denied based on available computer network resources and the users' perceived need to access or share information on the SitNet. Alternately, users may automatically be invited to connect to the event node corresponding to the event as shown in Fig. 34. The automatic invitation may be based on a stored user profile accessible to a situation authority server 3011 associated with the event node may crawl the network for user PIAs 404, 406 that would likely be interested in the information about the event. The user 250 may accept or decline the invitation based on their interest in the event or situation. In one embodiment, the situation authority 207 may have the authority to override a decline by the user 250 in order to share vital information, as is described in more detail below.

[00147] A situation or event may be associated with more than one event node, hosted by the same or different trusted provider, within a SitNet. Each event node may provide a source of different information based on the specialty of the trusted provider. For example, a hurricane may be associated with a first event node by a provider of weather

information, such as The Weather Channel, a second by a source of news information, such as CNN, and a third by a source of emergency management information, such as FEMA. Within the SitNet, users may be connected to some or all of the event nodes corresponding to the situation in order to obtain and share the most relevant information pertaining to them.

[00148] Links established between the nodes in situational network may be temporally limited. The temporal limit of the links may be established at the event node 3010 based on a predicted or known duration of the event or situation. The temporal limit of a link may also be determined by the user. Links established between PIAs of SitNet users may also be temporally limited. For example, users with a first order link to each other that resulted from their connection to the event node may only wish to share information for the duration of the event. The link between the two users can be disconnected when either is disconnected or disconnects from the event node, or the link may have a pre-determined connection time, established by one or both users at the time of creating the link. Referring to Fig. 29, PIAs at nodes corresponding to Ted 3042, Fred 3040, and Ed 3041 are all connected to the event node 3010 along storm dimensions 3046, 3048, and 3043, respectively. Ed 3041 discovers Fred 3040 and a link along the storm dimension 3045 is established until either link 3048 or 3043 is disconnected.

[00149] In one embodiment, the temporal limitation of a link may be based on geographic location or itinerary of the user. For example, a PIA is connected to the SitNet by invitation or request. The position of the user is monitored using a geographic positioning device, such as a GPS system, which may be included in the PIA. The connection with the event node is maintained while the user is within a predetermined distance of the situation. This distance may be determined at the event node or by the user. Since the situation and the user may both be moving, it is possible that the user may be disconnected and reconnected to the SitNet over a period of time. If the position of the user exceeds the predetermined distance, the connection to the event node is terminated. For example, a user connecting to a SitNet related to a snow storm may be connected to the SitNet when his PIA determines he is in proximity of the snow storm based on current location coordinates of the user and the current location or forecast trajectory of the snow storm. The PIA may then disconnect or be disconnected from the SitNet when it has been

determined that the user has a low probability of experiencing any further affects of the snowstorm. In an alternate embodiment, the user is invited to connect to an event node of a SitNet based on their predicted proximity to a situation. If the user accepts the invitation, the position of the user is monitored as described above, and the connection to the event node is established when the location of the user is within a pre-determined distance of the situation.

[00150] In order to maintain links between the nodes belonging to users in the SitNet during an unintentional disconnection of the user nodes with the event node, such as failure or destruction of the systems hosing the event node, the users may choose to extend or renew the temporally limited link that would be terminated due to the disconnection from the event node to remain connected to each other in order to share and exchange information regarding the situation.

[00151] Links may also be created in a SitNet between users or between a user and the event node with a temporally limited raised affinity. If there are multiple dimensions connecting the users, the dimension related to interests in the event or situation (e.g., travel) may have a temporally raised affinity or a new temporally limited dimension with a raised affinity may be established. During the situation or event, users may have a greater need for information about the event or situation and are more likely to share or provide information to other users in the SitNet. The other dimensions, such as music or art, may have less importance during the situation or event, such that the user's PIA will utilize most if its resource sharing or searching for information about the situation or event. The raised affinity between the user devices 404, 406 is maintained for the duration of the connection of the PIAs with the event node server is shown, for example, in Fig. 37. The level of affinity may be changed based on the geographic proximity of the users. In an embodiment, the affinity is raised along the dimension for only some users in the SitNet, for example, users with PIA belonging to nodes of a particular projection of the SitNet.

[00152] A PIA connected to a SitNet may discover another PIA that it has previously established a connection with along one or several dimensions in an NDSN. The connection may be a first order connection, or the connection may be a higher order such that the two PIAs have never directly exchanged personal information. Based on the

previous connection, the affinity along a dimension related to the situation may be elevated or raised for a period of time that the two PIAs are connected to the event node of the SitNet, or a new temporally limited dimension with an elevated affinity may be established. The degree of separation may also be decreased to a first order connection if the two PIAs have not previously communicated directly.

[00153] Referring again to Fig. 29, Ted 3042 and Fred 3040 have previous links (shown by the solid lines) along the dimensions of hobbies 3044 and travel 3047. Upon discovering that they are connected to the event node 3010 along the storm dimensions 3046 and 3048 (shown by the dashed lines), a new link between Ted 3042 and Fred 3040 along a storm dimension 3049 is established with an affinity higher than along either of hobbies 3044 or travel 3048 dimensions, as depicted with the thicker dashed line in Fig. 29. In one embodiment, the level of affinity is changed based on the proximity of the PIAs to each other, with a higher affinity being assigned as the proximity between the users decreases.

[00154] Users connected to an event node of a SitNet in an NDSN through a PIA may also request a "projected" view, also referred to as a projection, of the SitNet using procedures described above. The projected view may be created by a server 3011 at an event node as shown in Fig. 38. After receiving the projection from the event node server 3011, the PIA 404 may established connections with another PIA 406 included in the projection. Alternately, the PIA 404 of user 250 or a PIA 406 of a different user connected to the SitNet may create the projection. The projected view may be created along one or several dimensions of the NDSN. A user may want to share information with only a subset of the total number of users connected to the situational network, and thus may request or create a projection representing those other users that the user has the most interest in sharing information. For example, the user might request a projection for a SitNet based on location, allowing or requesting a connection with only those users in a certain zip code. As another example, a traveler connected to an event node for accident may want a projected view of the SitNet based on final travel destination in order to share or solicit alternate travel routes around the accident. The user may also share the projection with other users connected to nodes contained in that projection. An example of a geographic projection 3050 of nodes of a SitNet 3000 is shown in Fig. 30. The

SitNet 3000 includes the 10 nodes labeled (a) through (j). Nodes a, b, c, e, f, and i are included in geographic projection 3050 based on their location with respect to boundary 3052. An example of such a situation 3005 is a severe rain storm (the situation 3005) that poses a flood threat to persons located on one side of a river (the boundary 3052). A geographic projection 3050 is formed including only those nodes (labeled a, b, c, e, f, and i) where a user is threatened by flood waters. In one embodiment, a server at the event node of the SitNet creates a set of geographic projections of users connected to the SitNet 3000, and distributes those geographic projections to the appropriate PIAs of users in the corresponding locations based upon the node belong to the PIA being included in that projection. If a node of a PIA is included in more than one geographic projection (e.g., two different projections that include overlapping geographic areas), the PIA 400 may receive more than one geographic projection. This enables a targeted distribution of geographically relevant information, including advertisements, to the connected users by allowing critical information to be passed to users who will receive the most benefit from knowing that information. For example, during a severe winter blizzard, the local effects of the blizzard may vary considerably over the affected area. Some areas may be without power, while other areas may experience road closures. Information of each of these conditions can independently be reported to the relevant users, such as when power is expected to be restored or when the roads will be re-opened by creating projections of users for each of the affected areas.

[00155] A SitNet can be used to provide navigation information, such as potential navigation hazards, optimal routes, alternate routes, traffic conditions, or unexpected occurrences (i.e., a herd of cows blocking a country road). A navigator can create an event node corresponding to their probable itinerary, which includes start, intermediate, and ending locations, as well as travel routes. PIAs of other navigators can crawl the network to discover event nodes corresponding to their own itineraries in order to determine if any relevant information has been reported. Each navigator may have requirements for the information most relevant to their travel. Requirements include estimated maximum time of travel, avoidance of hazards or detours, preferred itineraries or routes, avoidance of particular areas or routes, need for special services, or need for child or pet friendly establishments. Information that may be provided includes messages

or other communications originating from the navigator, and data provided by the vehicle through on-board devices and sensors understood by one skilled in the art, such as vehicle speed, vehicle location, and travel itinerary and routes. The other navigators can then use this information in their navigation plans, such as estimating time of arrival, or adjusting the itinerary or route to avoid potential hazards or unexpected conditions. Navigation can include transportation by air, water, or land. As an example, a pilot in a small aircraft traveling from Philadelphia to Chicago creates an event node for his flight. The PIAs corresponding to pilots of several other aircraft connect to this node. Some are traveling nearly the same flight route as the pilot, others flying a reverse route from Chicago to Philadelphia, and some others having a route that will cross the first route at some time. The pilot who established the event node experiences severe turbulence at 20,000 ft over central Ohio and reports the turbulence to the SitNet through his PIA. The other pilots can make in-flight decisions to change their own attitude or heading based on this information. The other pilots also can share their information with other users of the SitNet that is not related to the turbulence over Ohio. For example, one pilot may report a strong northwestern headwind over Cincinnati, while another may report localized severe thunderstorm activity just north of Pittsburgh, allowing all the pilots of the SitNet to assess to their own flight routes in view of these potential reported hazards.

[00156] Another example of the SitNet 3000 in a travel related situation is shown in Fig. 28. Several travelers 3026, 3027, 3028, 3029 along a stretch of highway are sharing or probing for information related to a situation 3005, a snow storm, affecting travel along that highway using SitNet 3000. The situation authority 207 establishes an event node corresponding to the situation 3005 using the create use case. This event node may be identified with the highway number, a specific mile post along the highway, or even a specific exit along a highway. For example, the event node may correspond to Mile Marker 50 on Interstate 91 in Vermont, which may be particularly hazardous during a snow storm. Travelers may discover the event node server using the discover use case, or alternately may be invited to participate in the SitNet 3000 by the event node server using the invite use case if they are within a pre-determined distance from the event node identifier. The connect use case is included in both the invite and discover use cases. The travelers 3026, 3027, 3028, 3029 and the situation authority 207 share information related

to the situation using the share use case. In the example of Fig. 28, some travelers (3027, 3028) have been invited to join the SitNet 3000 by the situation authority 207, while other travelers (3026, 3029) have joined the SitNet 3000 based on a discovery of the event node by their own devices. The situation authority 207 may be a trusted provider of weather or traffic information, or a state or local DOT, who can also augment the information shared between the travelers with the latest information regarding weather updates or real-time road conditions. In an alternate embodiment, an event node corresponding to the situation may be established by one of the travelers 3026, 3027, 3028, 3029 along the highway.

[00157] A situational network may be established to provide traffic information to connected users. Event nodes for receiving traffic information may be established for the occurrence of an accident, road construction, police or other emergency activities, or even a stretch of highway or city or zip code. The PIA of a traveler might be constantly crawling the NDSN to discover information related traffic conditions is proximity to the vehicle or in intended route of the vehicle to its destination. The source of the traffic information may be other users' PIAs reporting traffic conditions or information from a traffic or other agency such as a state or local Department of Transportation (DOT) that might provide traffic information. When the PIA receives information concerning a potential travel delay it alerts the user so the user can evaluate if an alternate route should be taken. In one embodiment, the PIA suggests an alternate route.

[00158] A SitNet may be used to provide common travel routes to users. This is especially useful to users that are unfamiliar with the roadways in the area where they are traveling and a situation such as an accident or road construction is blocking their only known route through the area. By connecting to a SitNet with other users familiar with local roads, the user may learn of the most time efficient alternate routes around the situation. Users may also discover popular short cuts through a normal congested area. In one embodiment, a traffic accident or construction zone is associated with the event node of a SitNet. The event node is created by trusted provide, such as a traffic agency or state or local DOT. Pre-determined alternate routes may be stored in a database connected to a server associated with the host of the event node. A user is connected to the event node may be presented with alternate routes based on their current location and destination.

[00159] A situational network can be established for users traveling to and/or from the same location. A PIA for one of the users may crawl the network looking for other PIAs that have information indicative of an expected travel to or from the same location on or around certain range of dates. The user may be offering a ride to the location or seeking a ride to the location. If the PIA discovers one or a set of other PIAs, it may invite the other users of other PIAs to connect to the network to determine the feasibility of sharing transportation, which may include all forms of air, water, or land transport. In one embodiment, the situational network is encompassed by a PIA associated with a shared vehicle, such a car shares that are popular in many urban areas. A user's PIA can determine availability of vehicles in the area parked in their home space, or they might be able to obtain availability of a vehicle that was signed out by someone else but it might be available for a short time from a different location while the users that checkout the vehicle are not using the car.

[00160] Users can access information regarding travel delays using a PIA connected to an event node of a SitNet. The event nodes can correspond to commercial transportation routes, such as a scheduled commercial airline flight, a specific commuter train or bus run, can be established by a transportation company, DOT, or traffic reporting agency. In an embodiment, the event node is created by a traveler. An event node can also be established for a highway accident or road construction event. A user can request a connection to a server corresponding to the event node in order to obtain most recent arrival time or delay time estimated for the situation corresponding to that event node. Alternatively, a user's PIA may automatically connect to the event node, such as the event node for a commuter train that the user's spouse likely uses everyday. The user's PIA would then alert the user if there is any expected delay in the arrival of the commuter train. Similarly, a user can request a connection to an event node established for a commercial airline flight. The connection would allow the user to be updated of most recent flight status for that particular airline flight. Travel delay notifications can also be reported for highway delays, such as those caused by accidents or road construction. A user expecting guests might request that her PIA crawl the network and seek event nodes related to expected travel routes for the guests and automatically notify her if there are any unexpected delays.

[00161] A situational network may be used to broadcast emergency information to users connected through into the situational network. In one embodiment, a user's home page is automatically re-directed to a website where most current information regarding the emergency event can be found. Similarly, emergency information can be directed to users' cell phones and PDA's. In an alternate embodiment, the emergency information provider establishes an event node of the situational network. A user is invited to connect to the event node to receive updated information. Once the user accepts the invitation, new updates are automatically delivered to the user as they are made available. In one embodiment, the server at the event node has the authority to override a declined invitation to connect to the event node. In order to protect personal privacy to the greatest extent possible, such an override utility might be limited to be activated by a very select few individuals or trusted providers and can be activated only in the direst of emergency situations, such as when imminent loss of life may be a probable result of the event or situation.

[00162] Referring to Fig. 24, a situational network may be formed for an emergency event or situation. The SitNet 3000 for the emergency event may have multiple tiers or access levels to allow for more effective sharing and propagation of information between users of the SitNet 3000. A first level of access (L1) 3034 is provided to L1 users 3030 such as emergency responders. Emergency responders include entities such as fire, police, EMT, and rescue personnel at or in transit to the location of an emergency. Emergency responders may also include government (e.g., FEMA) or other emergency management agencies that may be involved in crisis management during a disaster. A 911 dispatcher or medical personnel may also be granted L1 access to the SitNet 3000. A second level of access (L2) 3036 is provided for L2 users 3031, such as those individuals with a physical proximity to the emergency event. These individuals are also referred to as affected individuals. For example, those in the forecast track of a hurricane, those enveloped by the hurricane, and those in the wake of the hurricane are all classified as affected individuals and granted L2 access to the SitNet 3000. Similarly, those within a certain radius of the epicenter of an earthquake may be classified as affected individuals and granted L2 access to a SitNet 3000 established in response to the earthquake. A third level of access (L3) 3038 is provided to L3 users 3032, such as relief agencies and those

materially affected by the disaster. Examples of organizations or individuals who might be granted level 3 access include The American Red Cross, insurance companies and their adjustors, and those individuals with family or property in the affected location who do not reside in the affected area (those residing in the affected area have L2 access). The different levels of access allow for efficient sharing of the most relevant information between the different individuals directly and indirectly involved in the SitNet 3000. L1 access allows emergency responders to access to information shared between all members of the SitNet 3000, plus provides a trusted connection for emergency responders to share information that may be critical in providing emergency service to the L2 individuals. L2 individuals can provide location information that may be useful for a rescue or conditions inside the situation or event that may be invaluable or otherwise unknown to emergency responders. The different levels of access can also allow for the most effective use of limited network resources, such as bandwidth, that may result from situation or event, for example ensuring that L1 access has the greatest resource allocation so that emergency responders can exchange vital information regarding the situation. In an embodiment, information in the emergency event SitNet 3000 is exchanged using the PIAs corresponding to the different individuals participating in the event or situation. A PIA corresponding to a user with L1 access may a have a higher affinity along the dimension related to the emergency event to anther L1 access PIA that it would have with L2 or L3 access PIA, allowing the more efficient and trusted sharing of information among the emergency responders.

[00163] Information shared by the various individuals participating in the event or situation may include audio and video data. This audio and video data can be aggregated by a server, which in one embodiment may correspond to the event node of the SitNet, to provide a geographic "snapshot" of the situation. By tagging each piece of video or audio data with a location and time coordinates, it is possible to create a spatial map of the situation. The time evolution of the situation can be obtained by aggregating the geographic snapshots for different times. Access to the geographic snapshot data is unrestricted for emergency responders with L1 access to the SitNet. Limited access to the geographic snapshot data may be provided individuals with L2 or L3 access, depending on bandwidth available within the SitNet. An external portal, such as an Internet website,

may be established by a situation authority for the emergency event where some or all of the geographic snapshot data is made available, if system and network resources permit, to persons not connected to the SitNet.

[00164] A "roll-call" or "check-in" feature can be included in a situational network for a disaster or emergency event to establish a list of persons that might be missing or need assistance. A server corresponding to the event node of the situational network may invite users determined to be physically threatened by a disaster or emergency event to check-in. The server or CIA of the event node 3010 may determine which user PIAs to contact through stored lists, such as apartment or office building occupancy record, or postal record for streets or zip codes. Those people identified with a PIA are sent an unsolicited message to reply if they are alright, also referred to a positive response. A user may also respond to the check-in that they need assistance and provide location information to emergency responders. Non-responding PIAs are reported to emergency management officials to decide what further actions may be required to locate those individuals. Referring to Fig. 32, a PIA 400 displays an alert warning 3070 requiring user input that they are either ok 3074 or need assistance 3072. The user may also be presented with an option to display the current status of the roll call list 3076 so the she may be able to provide information on users that have not responded to the roll call query. In the example of Fig. 32, "Building Property Management" has provided a list of building occupants for "1 Tower Place" to the trusted provider "Springfield Fire Company" which has established an event node and provided the roll call query to the PIA.

[00165] A situation authority or trusted provider establishing an event node 3010 for a server that hosts the roll call or check-in feature described above may provide a searchable message board to users connected to the SitNet as well visitors not connected to the SitNet that allows sharing of information about individuals in the SitNet 3000 with persons outside the SitNet. Referring to Fig. 40, Situation Authority 207, User 1 254, and User 2 256 are connected through a situational network. Visitor 3 258 is not connected to the situational network, but can access certain information made available by the situation authority via the message board, and post comments viewable by the participants of the situational network. The searchable message board may be used as in interface to gain access to information from one or more situational networks for

different emergency events or disasters. Referring to Fig. 33, the message board 3080 may be accessible by a website on the internet (outside the SitNet). A visitor to the website can search 3082 the message board for information related to a specific situation or event. The information may be tagged with a location coordinate so that check-in and other information can be searched and obtained down to a zip code, street or even individual household level 3084. The searchable message board also allows visitors not connected or unable to connect to the SitNet the opportunity to post 3088 or view 3086 messages that are relevant to a specific situation, such as searching for information on a missing family member or friend. Other visitors with information about the situation can respond to those messages with any information that they can share. In one embodiment, the most recent roll-call list for the search criteria entered by the visitor is available using a link 3089 on the webpage.

[00166] During a disaster or crisis, relief agencies may establish a node of a SitNet 3000 for rapid deployment of emergency information. The server of the relief agency obtains the list of users connected to the SitNet 3000 from the server encompassing the event node 3010 corresponding to the situation. From this list, the relief agency can determine which users are likely affected by the disaster and invite those users to establish a connection with a node associated with the relief agency. The relief agency may also be able to determine to what goods and services are most needed in different areas based on information about the users obtained from stored profiles. The relief agency may then provide information such as nearest shelter, location where emergency supplies are being distributed, or service or goods providers may still be in operation. The user may also be able to provide information to the relief agency such as what services or utilities are still available at their location, what type of relief supplies are most needed, the extent of damage, etc. In one embodiment, the relief agency may be an insurance company, which provides claims information to it affected clients or a schedule of when and where adjustors will be visiting.

[00167] Referring generally to Fig. 42, targeted advertisements from an advertising entity 208 may be delivered to devices of users 254, 256 connected through a SitNet using profile and location information relating to the users 254, 256 collected by the situation authority 207, and determining an ad opportunity based on an affiliation

between the user and the situation. An affiliation that a user has with the situation is used as a basis for delivering the targeted advertisements. The affiliation between the user and the situation is determined from one or more factors, including but not limited to, proximity of the user to the situation, role of the user within the situation, affect of the situation on the user, affect of the situation on property of the user, and projection of the SitNet in which the user is included. In some cases, one of the preceding factors alone may not be sufficient to determine an affiliation of the user to the situation. Many users within the same proximity of a situation may be affected very differently by the situation. For example, a homeowner and vacationer within the same city may have very different needs during a weather crisis such as a hurricane, even though their proximity to the situation is essentially the same. Affiliation information may be determined in part by analyzing personal data about the user, such as contained in a stored profile or found in a PIA. Information about a user's actual or predicted location may also be used in determining the affiliation. Once the advertisements are selected for a user, the targeted advertisements may be delivered to users of the SitNet using methods well understood by one skilled in the art.

[00168] By way of example, referring to Fig. 27, individuals participating in a SitNet for a hurricane event are directed to a source of information, which may be a web page. Based on the affiliation of the user with the situation, an advertising entity associated with the SitNet may deliver target advertisement to each user. A homeowner in the direct path of the hurricane may be shown ad for a hardware store that still has an ample supply of plywood 3080. The targeted ads may be location based (e.g., in a zip code) so that all SitNet users do not rush to the same store which quickly will be depleted of its plywood supply leaving latecomers to undertake a costly and time-consuming hunt for the plywood elsewhere. A user perceived to be a traveler in the area of the hurricane may be displayed an advertisement for the nearest hotel with vacancies 3082. Someone with an interest in the hurricane, maybe with family members or friends in the area, who is connected to the SitNet but is not in proximity to the hurricane, may be delivered a targeted ad to donate to a relief fund 3084. In one embodiment, targeted advertisements are delivered when a user connects to the SitNet using a PIA based on access to personal information or a user profile on the PIA accessible by the targeting ad server. If access to

all personal information is restricted, the targeted ad service may display a default advertisement to the user. In an alternate embodiment, advertisements can be targeted for presentation to users connected through the SitNet using the projections of the SitNet. All users in one projection of the SitNet may receive different advertisements on their PIAs than users of a different projection of the SitNet based on targeted criteria specific for each of the projections. Targeting criteria may include, but are not limited to, type of situation, location of the situation, and aggregate projection user demographics, such as average age, median household income, an percentage of households with children.

[00169] A situational network may be used to effectively manage the distribution of information regarding availability of limited goods and services as a result of an event or situation, such as disruptive weather or natural disaster. Based on the locations of the users in the SitNet, goods and services can be offered to users participating in a SitNet. All the users within a certain nearby geographic proximity, such as a zip code, town, or street, to providers of the goods and services, may receive notifications regarding the availability of the goods or services at those locations. As a user changes position, updated information may be provided based on most recent location coordinates associated with the user. A change in availability of goods and services at different locations may also be provided to the users of the SitNet based on information provided by the providers of the goods and services themselves, or alternately, the users of the SitNet. As the supplies of the goods are depleted and services become unavailable, users of the SitNet are automatically notified of other nearby providers. Anticipated availability of good and services may also be distributed to the users of the SitNet in a similar manner. For example, in advance of a hurricane during a large scale evacuation, gasoline may be in short supply. To compound this difficulty people may waste both gasoline and time searching for a location that is selling gasoline. By connecting to SitNet associated with the hurricane, users may be presented with the location of the nearest provider with a supply of gasoline, or alternately several nearby locations. In addition, nearby users may be presented with different lists of available filling stations to help reduce a rush to a single location by all the users that will soon deplete its gasoline supply as a result. When a filling station no longer has a supply of gasoline, users in the vicinity may be notified

based on information provided by the owner of the filling station, or by other users at that location who may have been waiting in line when the supply runs out.

[00170] In one embodiment, user profile information is used with the user location information to determine the nearest provider of goods and services that fulfill actual or perceived needs of the user. The user profile information can be stored on a user device, such as a cell phone or PIA, or at a central site, such as a server associated with a situation authority or communications provider. The user profile information may contain, but is not limited to, number and ages of individuals in the user's household, number and type of pets owned by the user, languages spoken, medical conditions of the user and his/her dependent (e.g., diabetes), and special services need by the user and his/her dependents (e.g., dialysis). Such information can be used in directing a user to a provider of the nearest service that fulfills some or all the needs of the user during or as a result of the situation. For example, during a hurricane evacuation, a user with two dogs can be directed toward the nearest evacuation center that accepts pets, which may not be the nearest evacuation center to the user if other centers that are closer do not accept pets.

[00171] In addition to the location of the nearest provider of goods and services, situational dependent information, such related hazards, can be distributed to the user. The related hazards may impede the user from gaining access to the goods or services, such as flooded or otherwise impassable roads on the most probable route to a storm evacuation center. In one embodiment, alternate routes to the provider of the goods or services are suggested, minimizing the hazards that a user might encounter enroute to obtain the goods or services.

[00172] Location based goods and service notifications may be delivered to user devices in a language that is understood by the user. The selection of the language in which to deliver the notification may be based on information contained in the user profile. The user may have previously selected the delivery language which is then stored in the user profile, or the notification sender may automatically determine the delivery language based on the personal information contained in the user profile.

[00173] Notifications of the service may be delivered on GPS-enabled portable device, such as a cell phone or PDA, so that a traveling user can receive notifications of services most relevant to his current location. In one embodiment, the portable device, can notify

the provider of the service that the user in enroute, including any special considerations, such as those included in the user profile. The user may also communicate additional special considerations, such as injuries or special needs, to the service provider.

[00174] In an alternate embodiment, location based services can be offered to users connected to an event node of a SitNet using a PIA. Using positional coordinates associated with the user of the PIA, a server located at the event node can create a set of projected views of the SitNet, such that the nodes in each of the projected views of the SitNet are within close geographic proximity, such as a zip code, town, or street. A distribution of providers of limited goods and services that might be available after the occurrence of a situation or event can then be delivered in a targeted manner to the users of the SitNet using the projected views. As the users' location changes, location coordinates are provide to the event node server so that the projected views are updated, and user always receives the most up to date location based service information for their current location.

[00175] A situational network can be used to efficiently deliver and propagate a message or notification from a single user related to a situation or event to an expanded group of individuals who are directly or indirectly affected by the event or situation. The message may be created and distributed by a situation authority, or alternately created by an individual in response to receiving information about occurrence or expected occurrence of the situation. Each recipient of the message or notification may have pre-defined groupings of other users, such as family, friends, co-workers, neighbors, etc, so that an incoming notification can be forwarded to only to the selected groups of users. The groups that are displayed to the user for propagation of the notification may be dependent on the situation, with the displayed groups either being pre-selected by the user or determine automatically by the receiving device, which in one embodiment is a PIA and the groups correspond to users at nodes in an NDSN. For example, a user will likely need to notify one set of groups of users in their NDSN if school is being closed, and another set of groups of users if she is delayed by a traffic accident. Automatic determination of groups may be accomplished via creating projections of the PIA user's NDSN that are relevant to the situation of the incoming notification, for example, projections along the dimensions corresponding to family, friends, or business contacts.

[00176] A user can create separate notifications that are added to the message for each group before forwarding the message. The notifications for each group are separately composed on a device used to propagate the message before the message is forward to the different groups. The notifications are all preferably composed on a single screen of the device. The message and the corresponding notifications composed on the device are then all transmitted to the users of the selected groups at substantially the same time using a single action on the device such as actuating an actuator of the device. The single action on the device causes each notification composed on the device to be attached to the message, and subsequently transmitted to the appropriate users for each group. Examples of actuators include mechanical buttons or touch sensitive display panels. In an embodiment, the user may also reply to the sender of the message with a personal response. The reply may be transmitted using the same single action as described above, or transmitted at a separate time using a different action on the device.

[00177] Notifications may be distributed in the SitNet 300 using a peer to peer connections, or through connections to a centralize service, such as one that includes the situation authority.

[00178] Referring to Fig. 25, a school district superintendent creates a node in the situational network using a PIA 3060 to inform a group of users that school will be closed tomorrow. He creates a message 3066 that is propagated to a first set of users in selected groups (teachers, staff, parents, and snow removal). In this example, the groups are selectable by the superintendent, and different notifications are added to the message for each group, and propagated using the [NOTIFY] actuator 3068 on the PIA. The superintendent has chosen not to inform the superintendents of other school districts of his decision, overriding the automatic selection of that group by the PIA. Jane Doe, a parent who has a child in the Springfield School District receives the message from the superintendent on her PIA 3062, which is included in her cell phone. She propagates the message to her pre-defined group of users with additional notifications, also using the [NOTIFY] actuator 3068. Jane Doe's friend receives the original message 3066 propagated through Jane Doe's PIA 3063 on her PIA3064, which is included in her PDA with an additional notification 3069 added by Jane Doe. She replies 3067 to Jane Doe's

notification using the [REPLY] actuator and notifies her friends using the [NOTIFY] actuator 3068 that she will be at Jane Doe's house tomorrow.

[00179] A situational network may be established where the situation is a social event, such as a concert or festival. Users attending the event are alerted when other members of the NDSN are also in attendance at the same event. In one embodiment, the situational network is a proximity based network. Users are alerted to the presence of other members included in their NDSN by their PIA when they are both in attendance at the same event based on the sharing of position coordinated between the PIAs. In one embodiment, the situational network is used to facilitate personal introductions. A user's NDSN may contain many contacts that are personally unknown to a user possible due to a higher order degree of separation in the NDSN or because of physical distance between the two users, but nonetheless the two users share an affinity along at least one dimension where they exchange personal information. When the two users are connected to the event node in the same situational network, and are or will soon be in close proximity, an alert may be presented by the users' PIAs so that the users may decide if they would like to meet in person. The PIAs may determine future proximity based on a common event scheduled in both calendars of the users PIAs. Instantaneous proximity may be determined by sharing location coordinates obtained using a geographic location device, such as GPS, included in the PIA. In one embodiment, a user pre-selects other users in their social network that are personally unknown to them and that they would like to personally meet. When those pre-selected individual are in proximity, the user is notified of their location even in the absence of a connection to an event node. The connection between the two users creates a proximity situational network. For example, when two users' PIAs are crawling the NDSN and one discovers that the other is within a pre-determined range due to sharing of GPS position coordinates between the two PIAs, an alert can be sent to that user to facilitate a personal introduction between the two users.

[00180] Users interested in the same weather event may be connected in a situational network for social interaction. A user may be connected to this weather driven social network using a link on an internet site displaying information about that weather event. Other users can be connected to the same social network from different links on different websites also displaying information about the weather event. Referring to Fig 26, a user

interested in a forecasted snow storm may visit a webpage 3070 of a weather website for weather information related to that event. When viewing the weather event details page 3072, the user interested in skiing at a popular ski destination may click on a link 3074 and be connected to a centralized social networking website 3076 related to the weather event. The social networking website allows users to share and exchange information for a number of topics including lodging, transportation, social events, or popular meeting locations. Alternately, the PIA may be used to connect to an event node server of the situational network for the weather event, or the PIA may create a node for the weather event. The user may invite other users with similar interests to join the SitNet using the PIA. Additionally, the user's PIA may also crawl the network along a dimension in its NDSN, such as outdoor activities, to discover other users interested in the weather event and request a connection. The SitNet established in the NDSN though the PIA may be used to share information similar to that obtained on the website discussed above, but the information is shared in a peer to peer manner instead of controlled by a centralize source.

[00181] Those skilled in the art will recognize that the interactions employed to perform the various functions associated with the SitNet 3000, PIA, CIA and the NDSN (Discover, Connect, Invite, Configure, etc.) may be executed in a variety of ways not limited to the examples described herein.

[00182] Fig. 22 illustrates a block diagram of a computer system 1150 for realization of a computer-implemented apparatus that may form all or a part of one or more implementation(s) or embodiment(s) of the present invention. The computer system 1150 includes a computer 131, a keyboard 132, a mouse 133, and a monitor 134. The computer 131 has a network port 138 for connecting to the computer network 900 (not shown). The computer 131 is connected to a storage device 135 which contains the program instructions 136 for the software application that provides the logical functions of the computer-implemented apparatus. The storage device 135 also contains a database 137 for storing data.

[00183] Those skilled in the art will recognize that the program instructions 136 for software applications implementing all or a portion of one or more embodiment(s) of the present invention may be written in a programming language such as Java or C++, and

that the database 137 may be implemented with a database package such as Microsoft Access™ or a database management system (DBMS) such as Microsoft SQL Server™, Microsoft SQL Server CE ™, IBM DB2™, mySQL or postgreSQL.

[00184] Fig. 23 illustrates a block diagram of the computer 131. A system bus 1002 transports data amongst the Central Processing Unit (CPU) 1004, RAM 1006, the Read Only Memory Basic Input Output System (ROM-BIOS) 1008 and other components. The CPU 1004 can contain a cache memory component 1024. The computer 131 may include one or more external storage ports 1017 for accessing a hard disk drive, optical storage drive (e.g., CD-ROM, DVD), flash memory, tape device or other storage device (not shown). The relevant storage device(s) are connected through the external storage port 1017 which is connected to the system bus 1002 via a disk controller 1022. The keyboard 132 and the mouse 133 can be connected to the keyboard port 1012 and mouse port 1013, respectively, which are connected to the system bus 1002 through the I/O controller 1010. The monitor 134 can be connected to a monitor port 1014 which is connected to the system bus 1002 through the video controller 1015. A network device (not shown), including but not limited to an Ethernet device or other device having networking capability, can be connected to the network port 138 which is connected through the network controller 1016 to the system bus 1002. Additional ports, such as parallel or serial ports (not shown), may be utilized through the I/O controller 1010. The computer 131 may include one or more USB ports 1023. A USB device (not shown), including but not limited to a printer, scanner, keyboard, mouse, digital camera, storage device, PDA and webcam, can be connected to the USB port 1023 which is connected to the system bus 1002 through the USB controller 1011. Expansion slots 1018 can be comprised of Industry Standard Architecture (ISA) slots, Peripheral Component Interconnect (PCI) expansion slots, PCI Express expansion slots, Accelerated Graphics Port (AGP) slots or any other slot generally known in the art to allow additional cards to be placed into the computer 131. These slots can be used to connect network cards, video cards, sound cards, modems and any other peripheral devices generally used with a computer. Detailed descriptions of these devices have been omitted for convenience only and should not be considered limiting.

[00185] Those skilled in the art will recognize that a part of, or the entirety of, the embodiments of the present invention may be implemented as a web-based application that includes a web server and a browser application residing on a client computer.

[00186] The embodiments of the present invention may be implemented with any combination of hardware and software. If implemented as a computer-implemented apparatus, the present invention is implemented using means for performing all of the steps and functions described above.

[00187] The embodiments of the present invention can be included in an article of manufacture (e.g., one or more computer program products) having, for instance, computer useable media. The media has embodied therein, for instance, computer readable program code means for providing and facilitating the mechanisms of the present invention. The article of manufacture can be included as part of a computer system or sold separately.

[00188] While specific embodiments have been described in detail in the foregoing detailed description and illustrated in the accompanying drawings, it will be appreciated by those skilled in the art that various modifications and alternatives to those details could be developed in light of the overall teachings of the disclosure and the broad inventive concepts thereof. It is understood, therefore, that the scope of the present invention is not limited to the particular examples and implementations disclosed herein, but is intended to cover modifications within the spirit and scope thereof as defined by the appended claims and any and all equivalents thereof.

CLAIMS

What is claimed is:

1. A method of accessing situation related information, the method comprising:

receiving an indication of an occurrence of a situation;

forming a situational network related to the occurrence of the situation with a plurality of participant devices determined to be geographically proximate to the situation, each of the participant devices corresponding to a participant in the situational network;

presenting a roll call query to each of the plurality of participant devices soliciting a reply related to a status of the participant;

receiving a status response from one or more of the participants; and

aggregating the status responses from responsive participants into a roll call list.

2. The method of claim 1, further comprising:

receiving a request from a responsive participant to view the roll call list;

presenting the roll call list to the responsive participant; and

receiving from the participant an indication of the status of non-responsive participant.

3. The method of claim 1, wherein the situation includes at least one of an emergency event, a weather phenomenon, or a natural disaster.

4. The method of claim 1, wherein the situational network is formed by a situation authority.

5. The method of claim 1, further comprising:

establishing an electronic message board for providing access to the roll call information related to the situation for individuals not participating in the situational network.

6. The method of claim 1, wherein the status response includes a request for assistance and a location of the participant.

7. The method of claim 1, wherein non-responding devices are reported to an emergency management organization.

8. A method of providing situation related information to a situation authority via a situational network, the method comprising:

receiving, by a participant device, a roll call query soliciting a reply related to a status of a participant based on the participant being determined, by the situation authority, to be geographically proximate to the situation;

receiving, by the participant device, a selection of a status response from the participant; and

sending the status response to the central authority, wherein the status response is included in a roll call list.

9. The method of claim 8, further comprising:

requesting, by the participant device, the roll call list;

receiving, by the participant device, an indication of a status of non-responsive participant included on the roll call list; and

sending the status of the non-responsive participant to the situation authority.

10. The method of claim 8, wherein the situation includes at least one of an emergency event, a weather phenomenon, or a natural disaster.

11. The method of claim 8, wherein the status response includes a request for assistance and a location of the participant.

12. The method of claim 8, wherein the roll call list includes aggregated status responses from responsive participants of the situational network.

13. A system for accessing situation related information, the system comprising:

a central server, corresponding to a situation authority, configured to receive an indication of an occurrence of a situation, form a situational network related to the occurrence of the situation with a plurality of participant devices determined to be geographically proximate to the situation, each of the participant devices corresponding to a participant in the situational network, present a roll call query to each of the plurality

of participant devices soliciting a reply related to a status of the participant, receive a status response from one or more of the participants, and aggregate the status responses from responsive participants into a roll call list; and

a database corresponding to the central server for storing the responses and the roll call list.

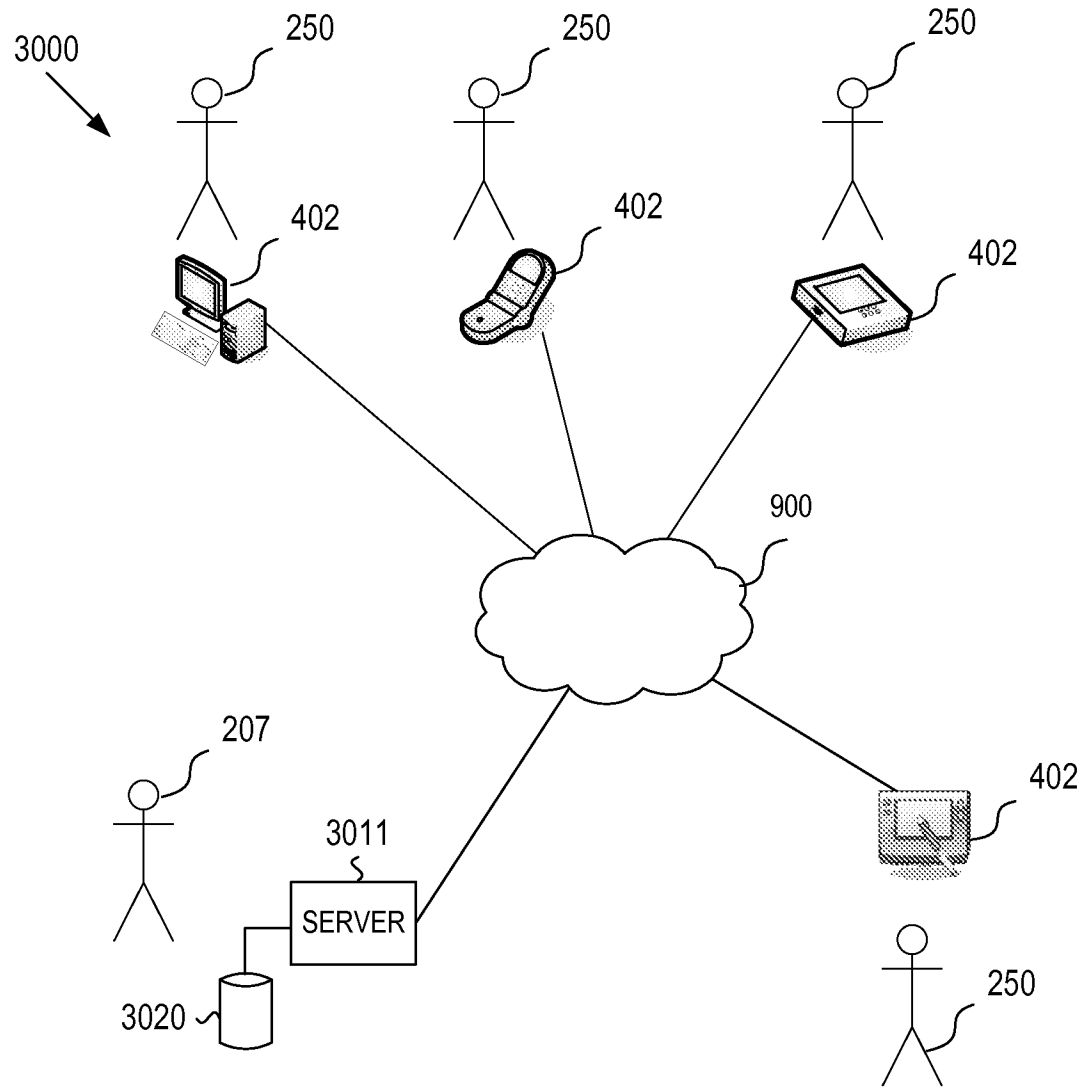
14. The system of claim 13, wherein the central server is further configured to receive a request from a responsive participant to view the roll call list, present the roll call list to the responsive participant, and receive from the participant an indication of the status of non-responsive participant.

15. The system of claim 13, wherein the situation includes at least one of an emergency event, a weather phenomenon, or a natural disaster.

16. The system of claim 13, wherein the central server is further configured to establish an electronic message board for providing access to the roll call information related to the situation for individuals not participating in the situational network.

ABSTRACT

A method of creating a projection of a situational network includes creating, by an event node server, an event node in a multi-dimensional personal information network, where the event node corresponds to a situation. A projection of nodes of the situational network is formed using geographic locations of a plurality of devices corresponding to nodes in the multi-dimensional personal information network. An invitation is transmitted to establish a link with the event node server to the devices corresponding to each node in the projection. A response is received from at least one of the devices accepting the invitation to establish a link with the event node server. A link with each device accepting the invitation is established.


3000
250
250
250
402
402
402
900
207
3011
SERVER
402
3020
250

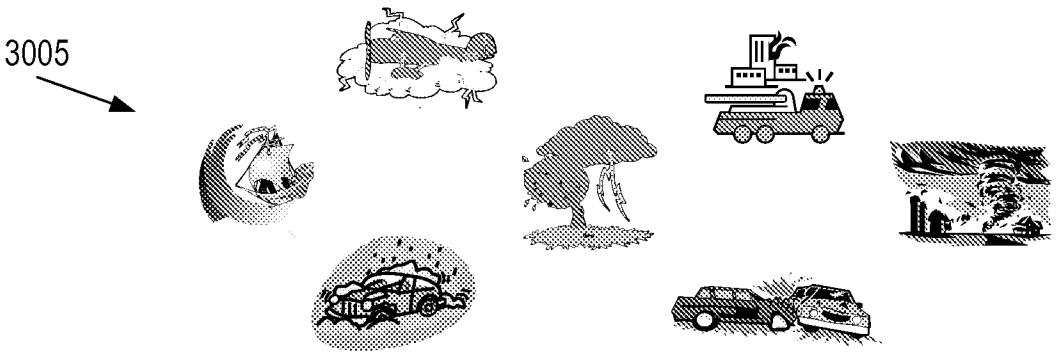

3005

Fig. 1

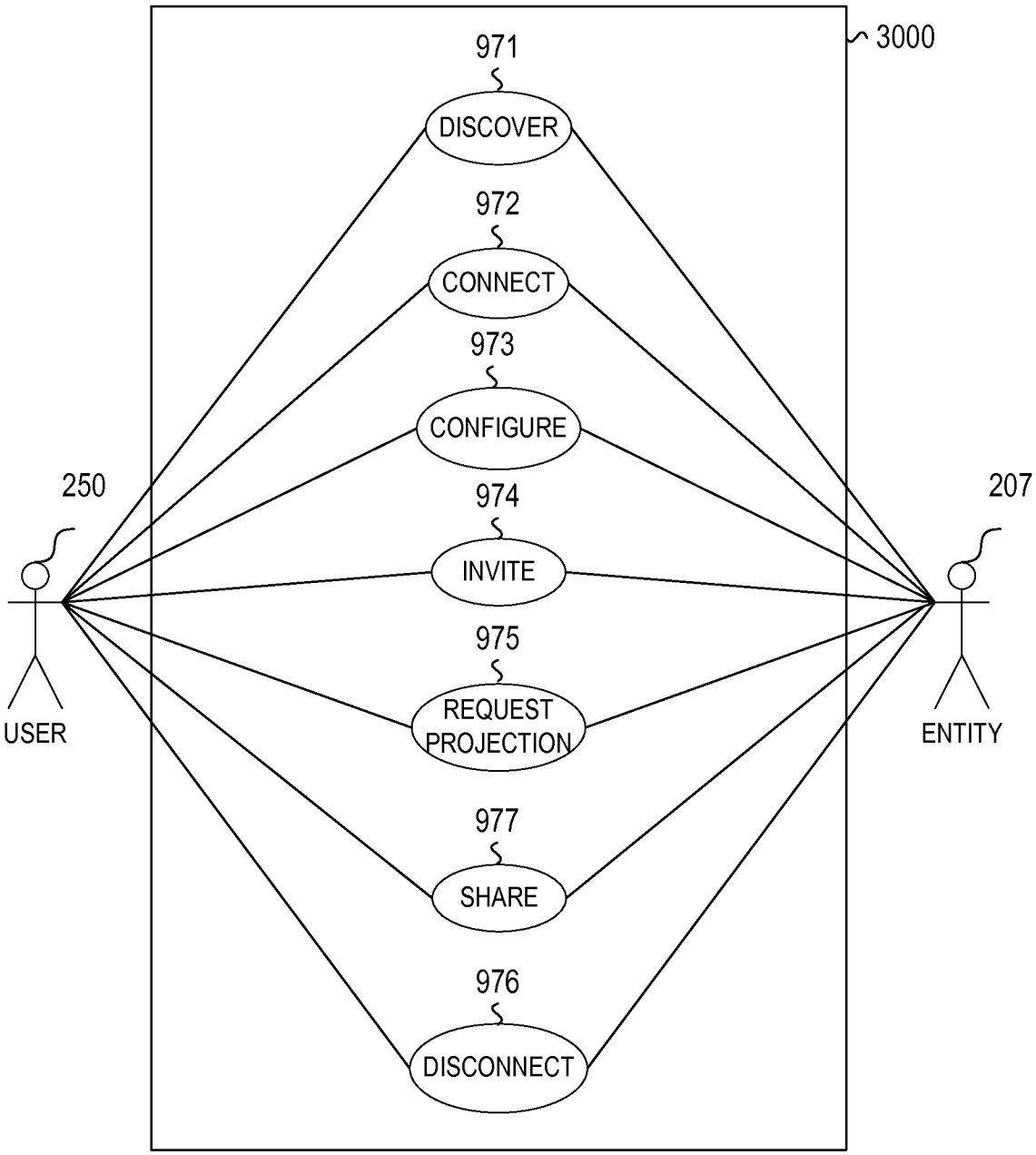

3000
971
DISCOVER
972
CONNECT
973
CONFIGURE
974
INVITE
975
REQUEST PROJECTION
977
SHARE
976
DISCONNECT
250
USER
207
ENTITY

Fig. 2

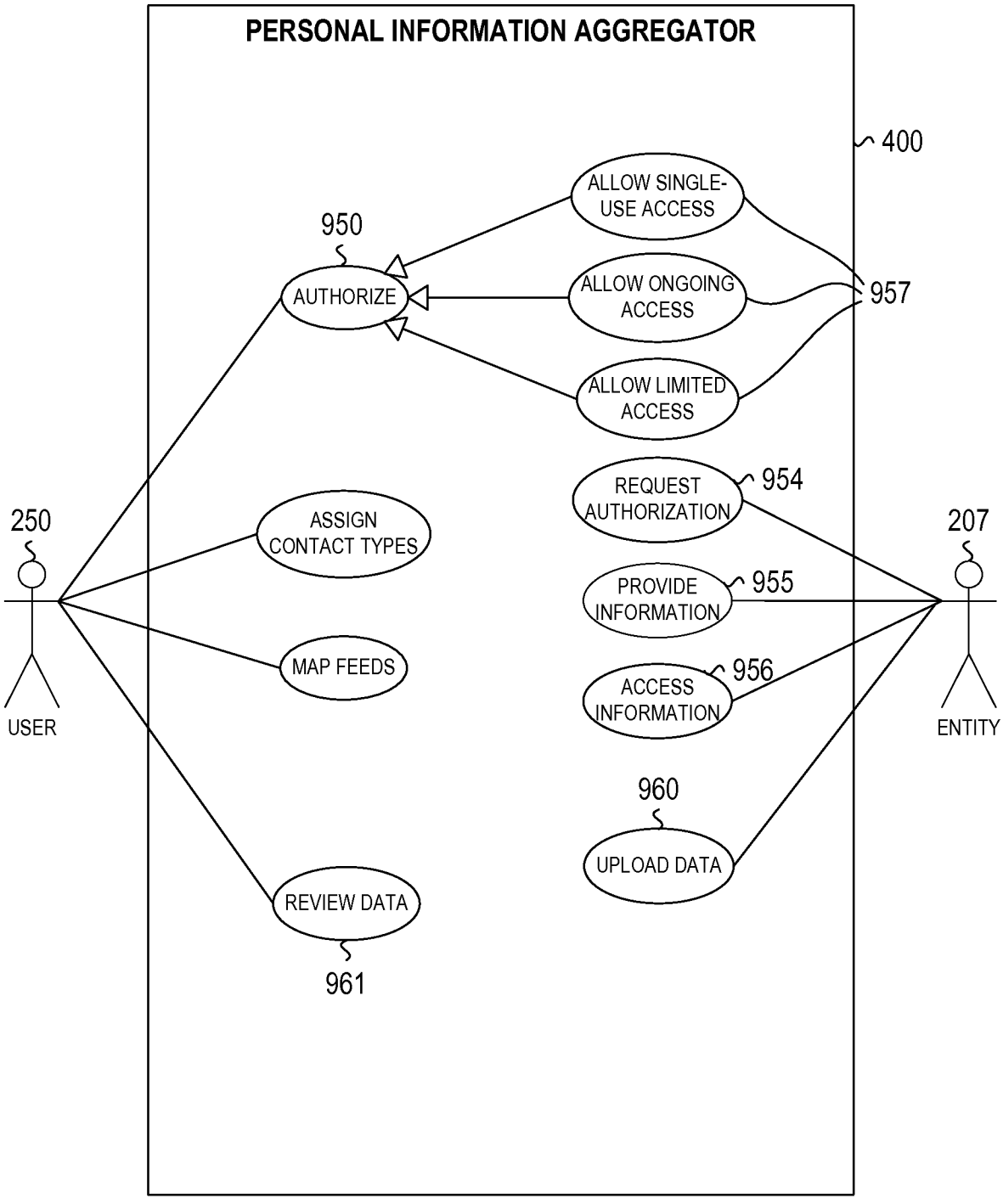

PERSONAL INFORMATION AGGREGATOR
400
ALLOW SINGLE-USE ACCESS
950
AUTHORIZE
ALLOW ONGOING ACCESS
957
ALLOW LIMITED ACCESS
REQUEST AUTHORIZATION
954
250
ASSIGN CONTACT TYPES
207
PROVIDE INFORMATION
955
MAP FEEDS
ACCESS INFORMATION
956
USER
ENTITY
960
UPLOAD DATA
REVIEW DATA
961

Fig. 3

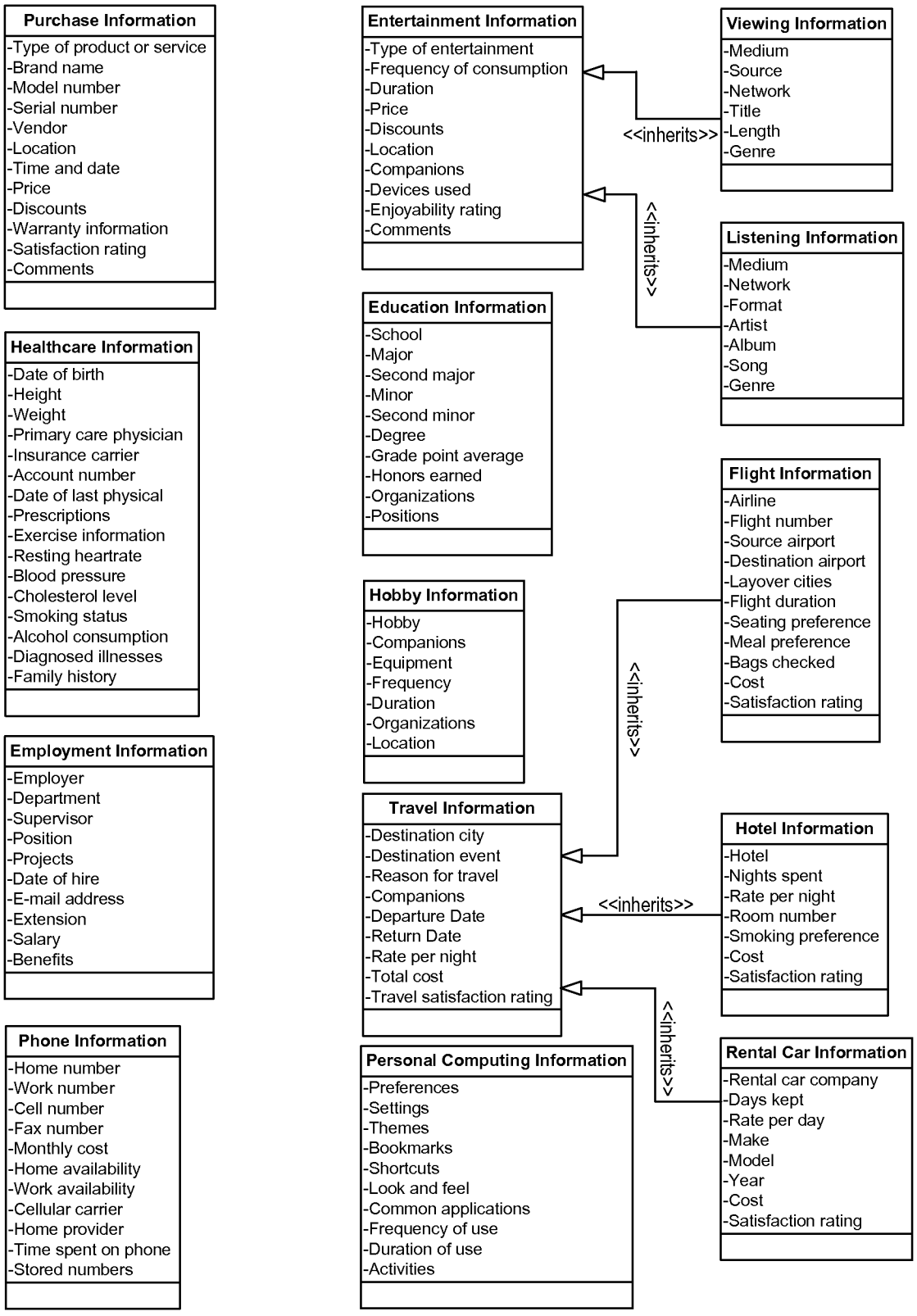

Purchase Information
-Type of product or service
-Brand name
-Model number
-Serial number
-Vendor
-Location
-Time and date
-Price
-Discounts
-Warranty information
-Satisfaction rating
-Comments
Healthcare Information
-Date of birth
-Height
-Weight
-Primary care physician
-Insurance carrier
-Account number
-Date of last physical
-Prescriptions
-Exercise information
-Resting heartrate
-Blood pressure
-Cholesterol level
-Smoking status
-Alcohol consumption
-Diagnosed illnesses
-Family history
Employment Information
-Employer
-Department
-Supervisor
-Position
-Projects
-Date of hire
-E-mail address
-Extension
-Salary
-Benefits
Phone Information
-Home number
-Work number
-Cell number
-Fax number
-Monthly cost
-Home availability
-Work availability
-Cellular carrier
-Home provider
-Time spent on phone
-Stored numbers
Entertainment Information
-Type of entertainment
-Frequency of consumption
-Duration
-Price
-Discounts
-Location
-Companions
-Devices used
-Enjoyability rating
-Comments
Viewing Information
-Medium
-Source
-Network
-Title
-Length
-Genre
<<inherits>>
<<inherits>>
Listening Information
-Medium
-Network
-Format
-Artist
-Album
-Song
-Genre
Education Information
-School
-Major
-Second major
-Minor
-Second minor
-Degree
-Grade point average
-Honors earned
-Organizations
-Positions
Flight Information
-Airline
-Flight number
-Source airport
-Destination airport
-Layover cities
-Flight duration
-Seating preference
-Meal preference
-Bags checked
-Cost
-Satisfaction rating
Hobby Information
-Hobby
-Companions
-Equipment
-Frequency
-Duration
-Organizations
-Location
<<inherits>>
Travel Information
-Destination city
-Destination event
-Reason for travel
-Companions
-Departure Date
-Return Date
-Rate per night
-Total cost
-Travel satisfaction rating
<<inherits>>
Hotel Information
-Hotel
-Nights spent
-Rate per night
-Room number
-Smoking preference
-Cost
-Satisfaction rating
<<inherits>>
Personal Computing Information
-Preferences
-Settings
-Themes
-Bookmarks
-Shortcuts
-Look and feel
-Common applications
-Frequency of use
-Duration of use
-Activities
Rental Car Information
-Rental car company
-Days kept
-Rate per day
-Make
-Model
-Year
-Cost
-Satisfaction rating

Fig. 4

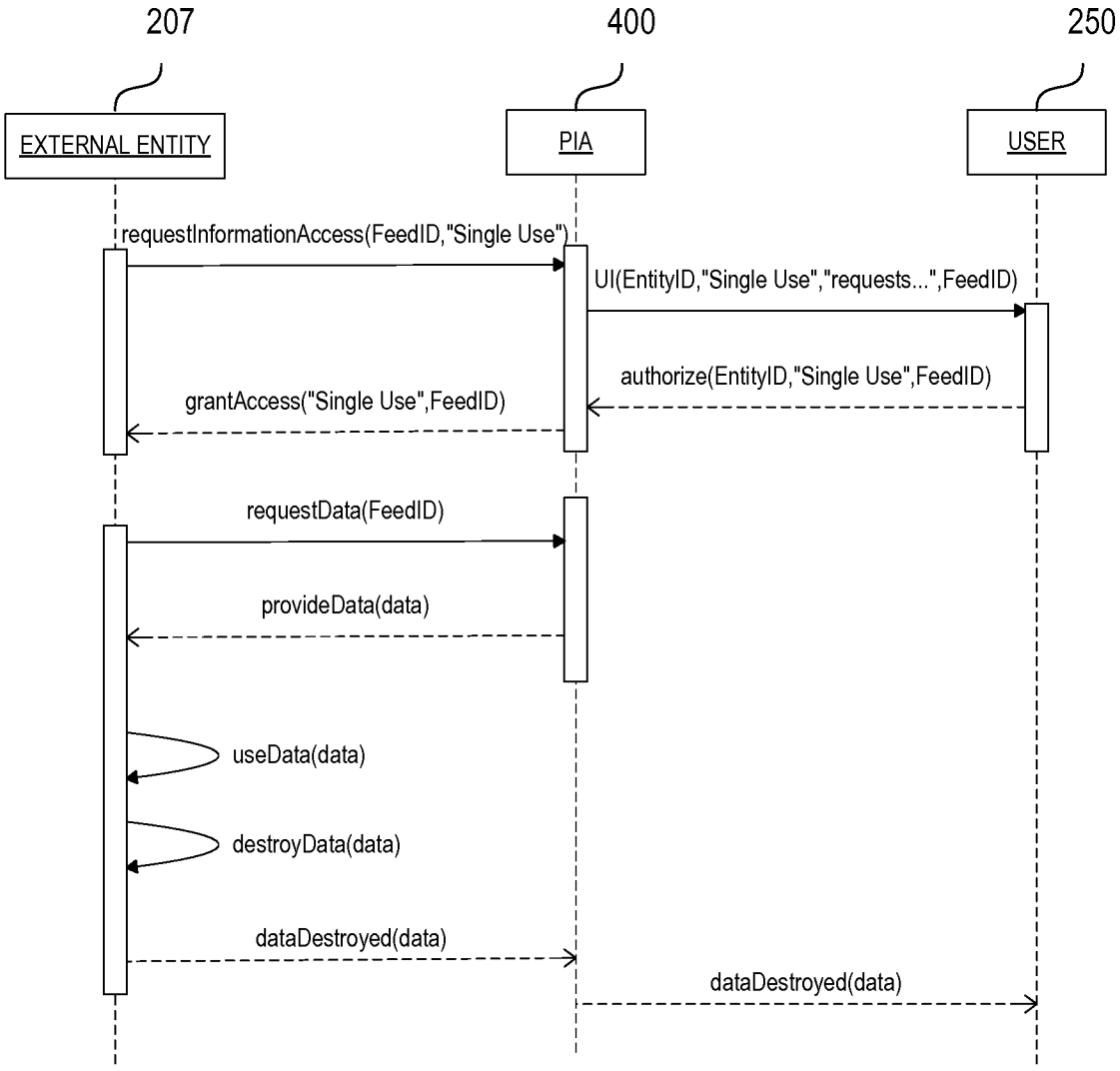

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Single Use")
UI(EntityID,"Single Use","requests...",FeedID)
authorize(EntityID,"Single Use",FeedID)
grantAccess("Single Use",FeedID)
requestData(FeedID)
provideData(data)
useData(data)
destroyData(data)
dataDestroyed(data)
dataDestroyed(data)

Fig. 5

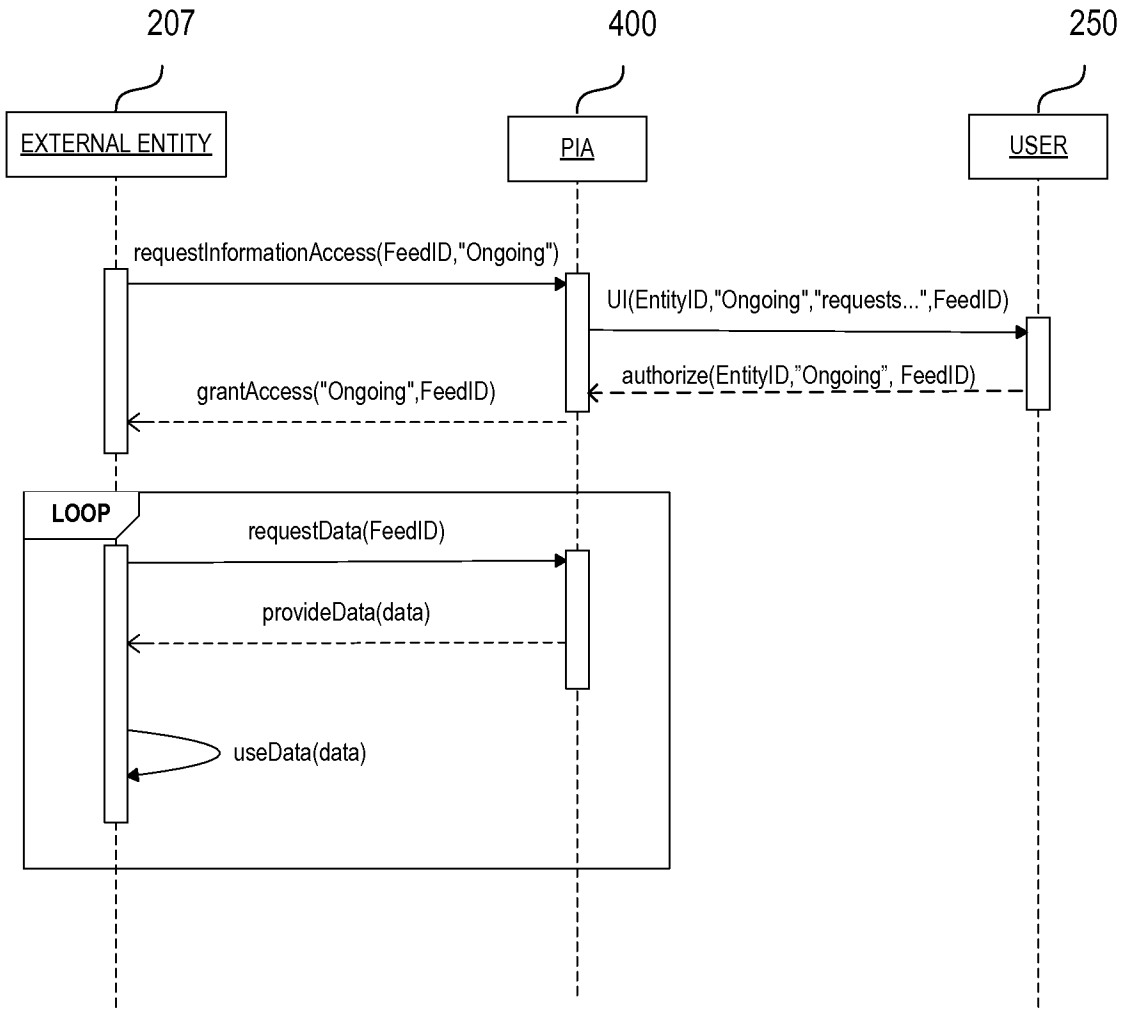

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Ongoing")
UI(EntityID,"Ongoing","requests...",FeedID)
authorize(EntityID,"Ongoing", FeedID)
grantAccess("Ongoing",FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)

Fig. 6

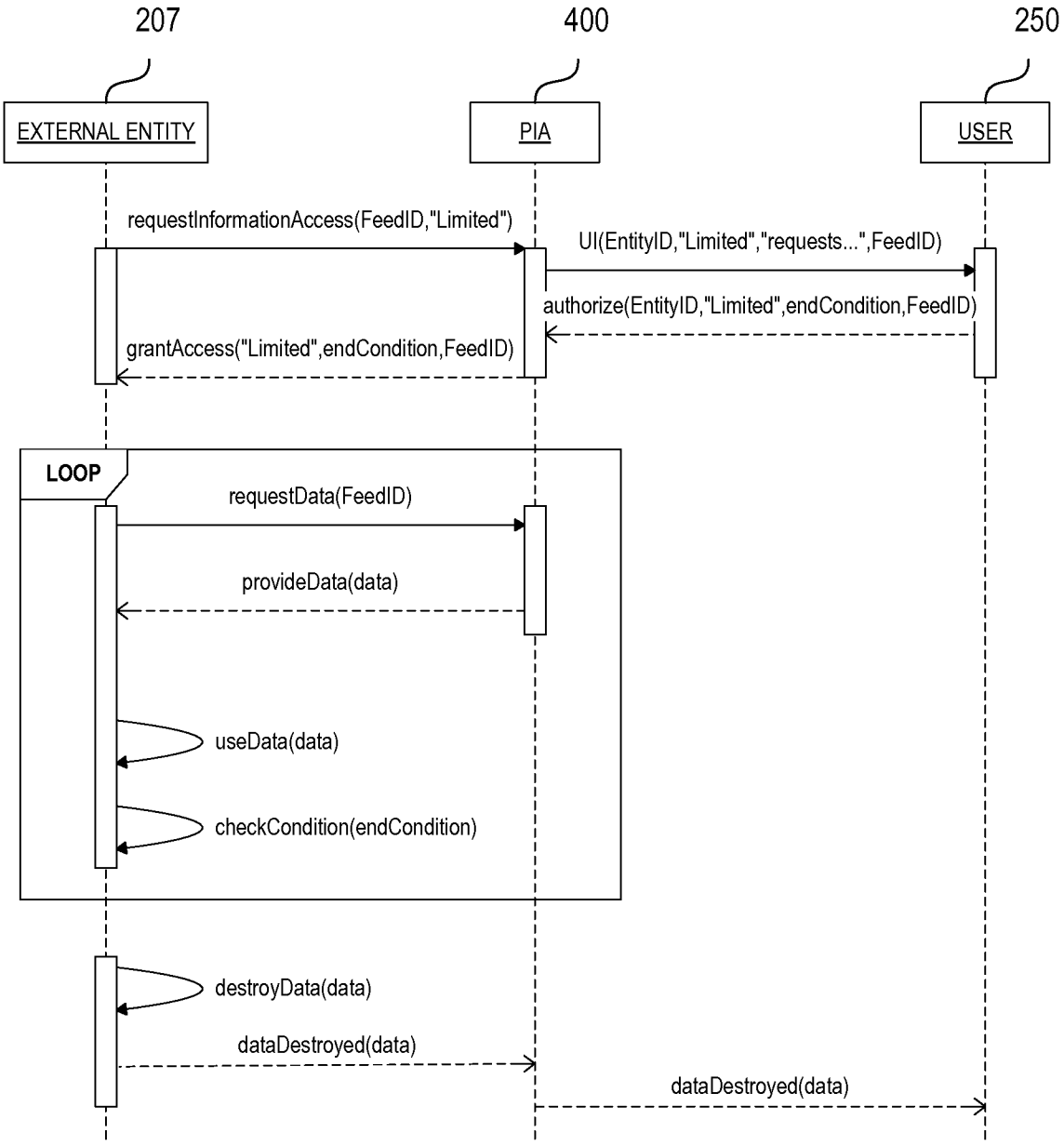

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Limited")
UI(EntityID,"Limited","requests...",FeedID)
authorize(EntityID,"Limited",endCondition,FeedID)
grantAccess("Limited",endCondition,FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)
checkCondition(endCondition)
destroyData(data)
dataDestroyed(data)
dataDestroyed(data)

Fig. 7

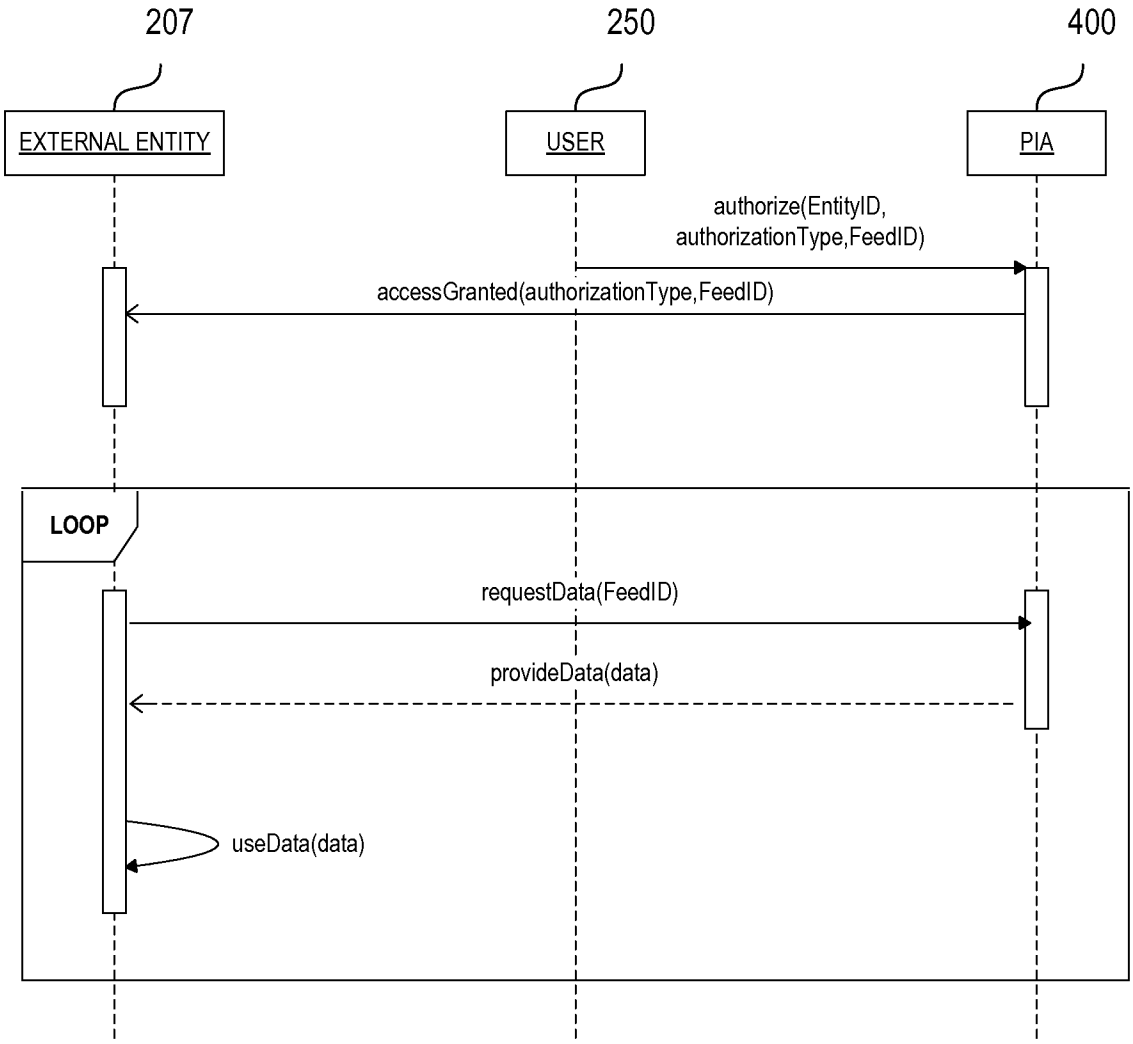

207
250
400
EXTERNAL ENTITY
USER
PIA
authorize(EntityID, authorizationType,FeedID)
accessGranted(authorizationType,FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)

Fig. 8

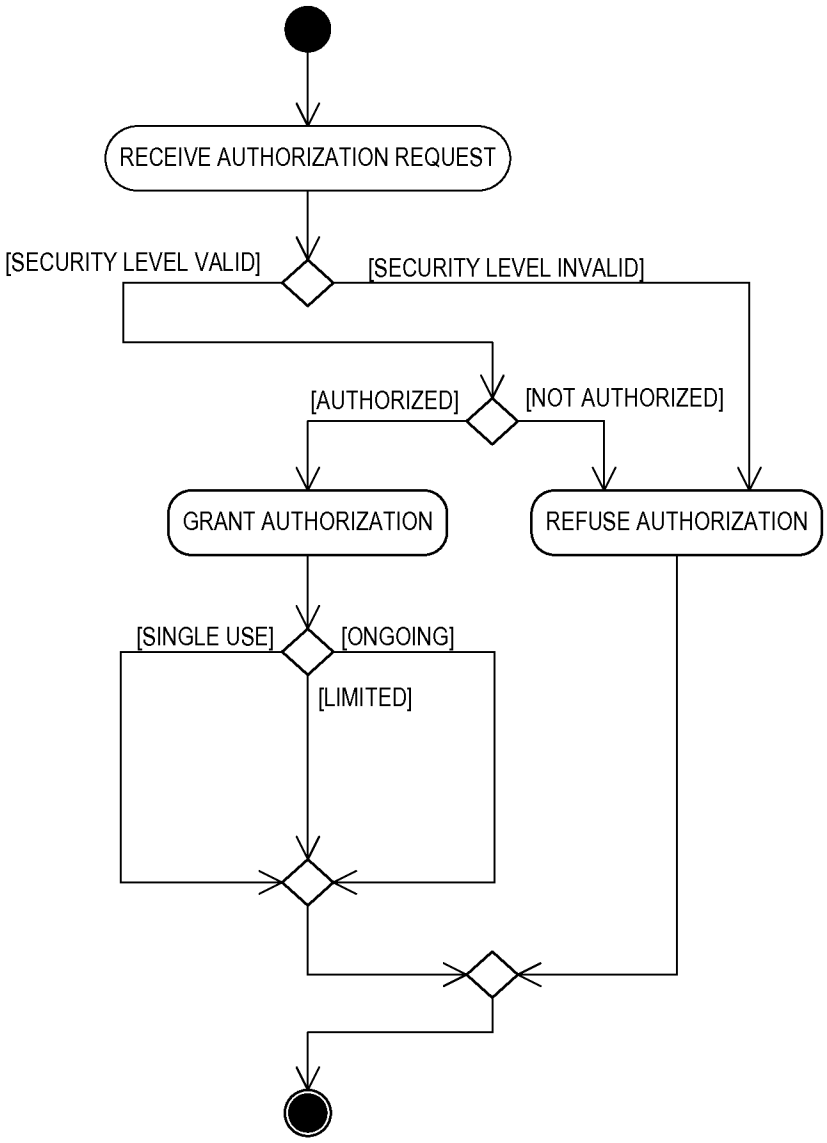

RECEIVE AUTHORIZATION REQUEST
[SECURITY LEVEL VALID]
[SECURITY LEVEL INVALID]
[AUTHORIZED]
[NOT AUTHORIZED]
GRANT AUTHORIZATION
REFUSE AUTHORIZATION
[SINGLE USE]
[ONGOING]
[LIMITED]

Fig. 9

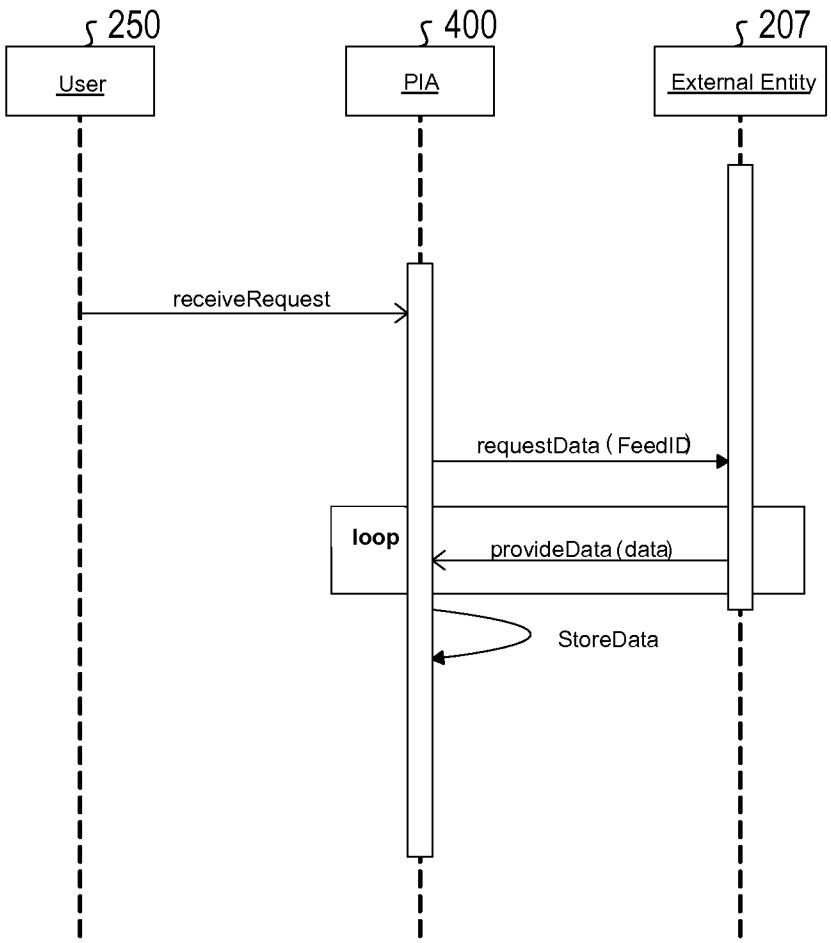

250
400
207
User
PIA
External Entity
receiveRequest
requestData (FeedID)
loop
provideData (data)
StoreData

Fig. 10

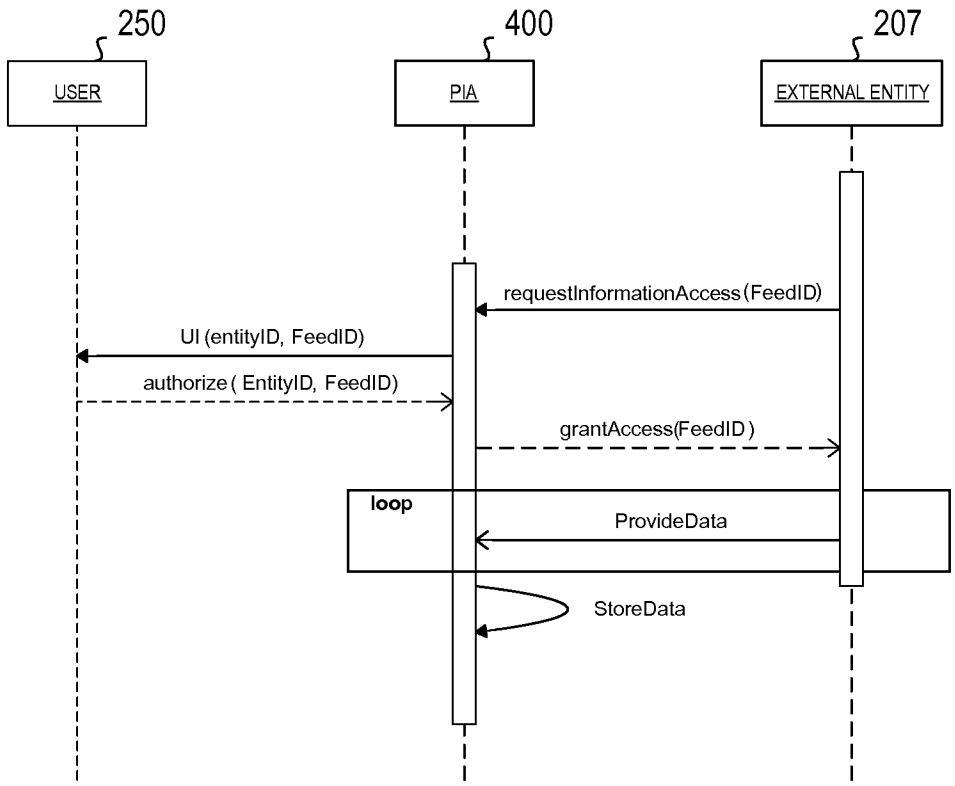

250
400
207
USER
PIA
EXTERNAL ENTITY
requestInformationAccess(FeedID)
UI (entityID, FeedID)
authorize(EntityID, FeedID)
grantAccess(FeedID)
loop
ProvideData
StoreData

Fig. 11

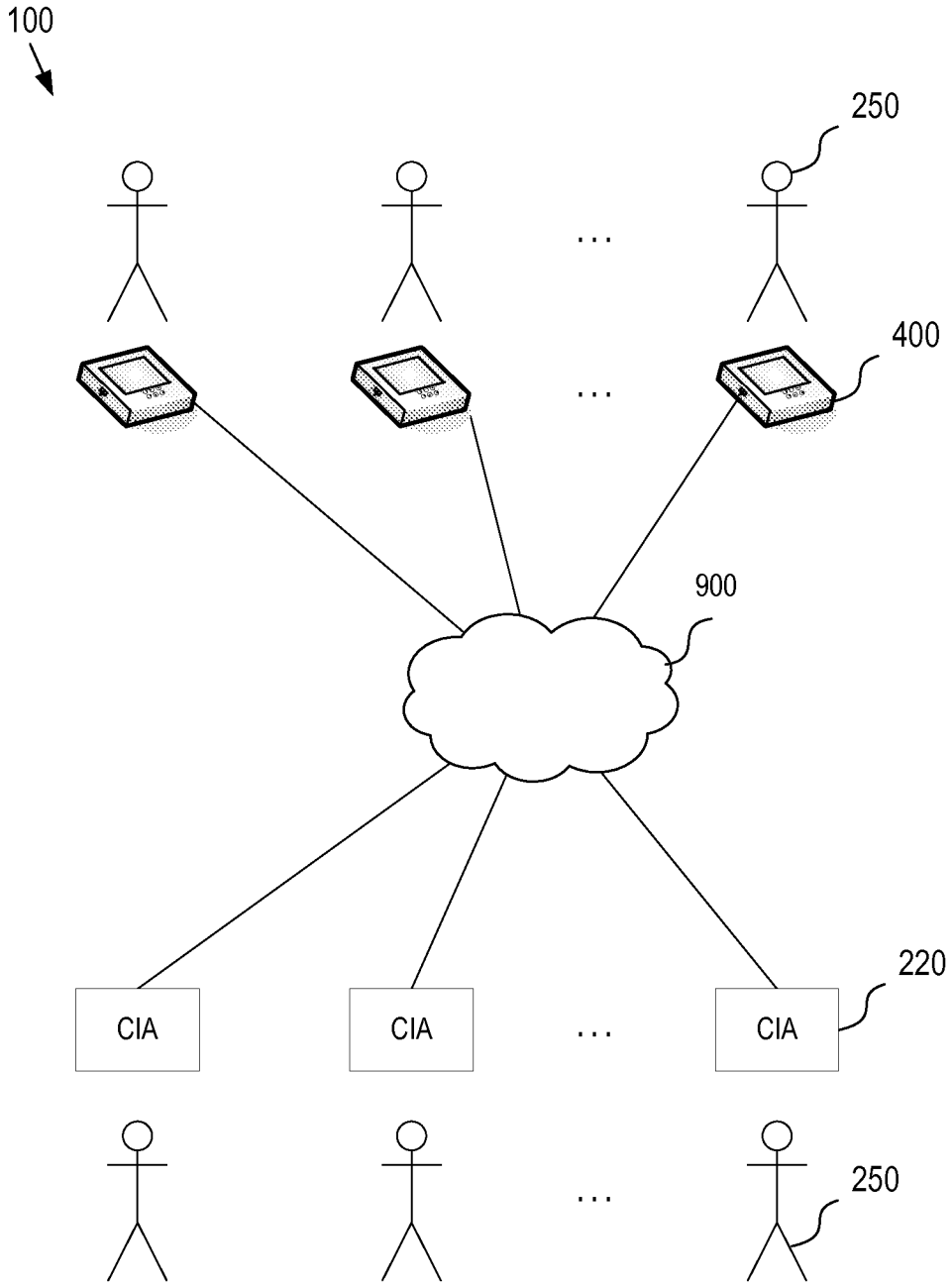


Fig. 12

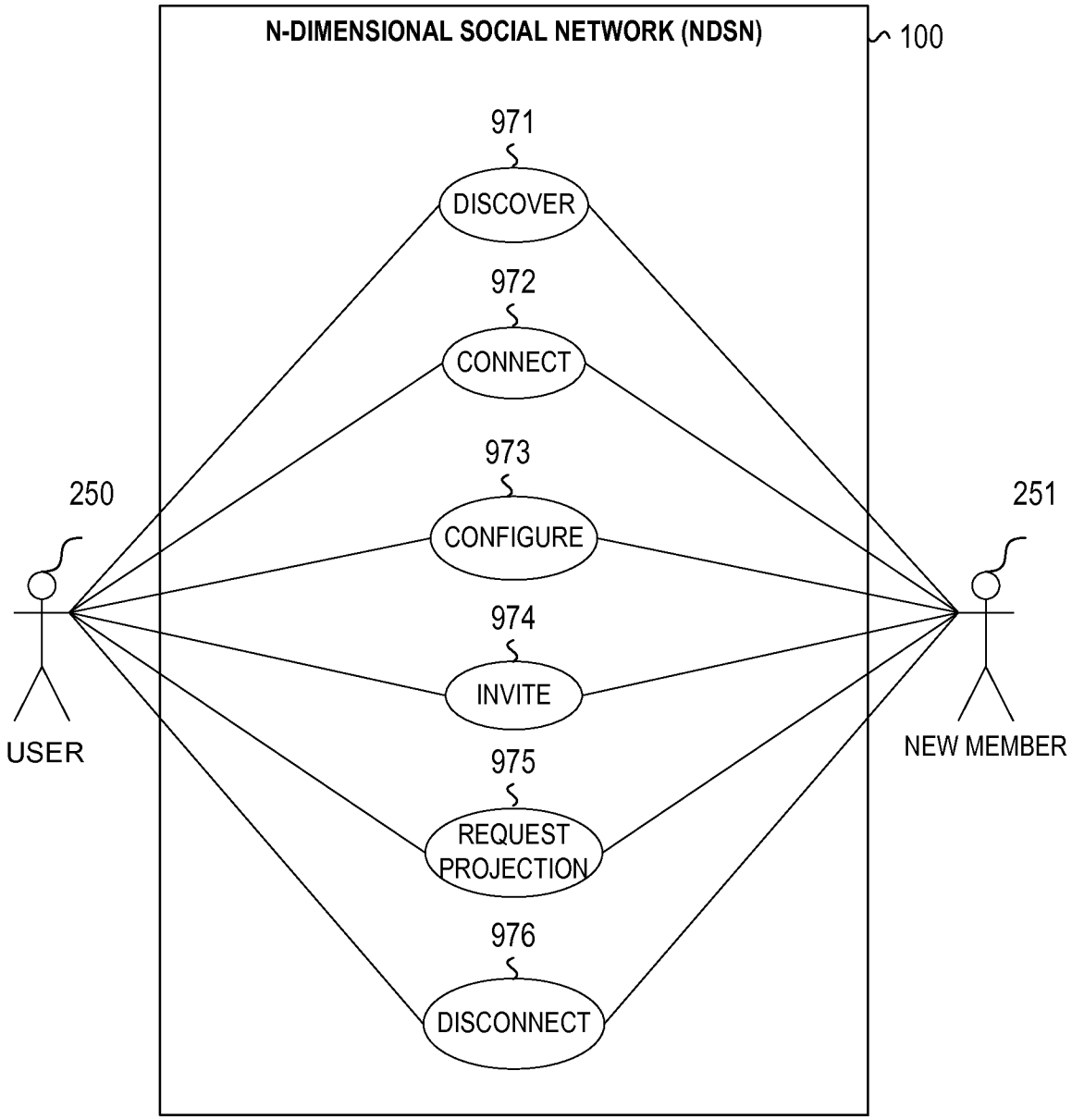

N-DIMENSIONAL SOCIAL NETWORK (NDSN)
100
971
DISCOVER
972
CONNECT
973
CONFIGURE
974
INVITE
975
REQUEST PROJECTION
976
DISCONNECT
250
USER
251
NEW MEMBER

Fig. 13

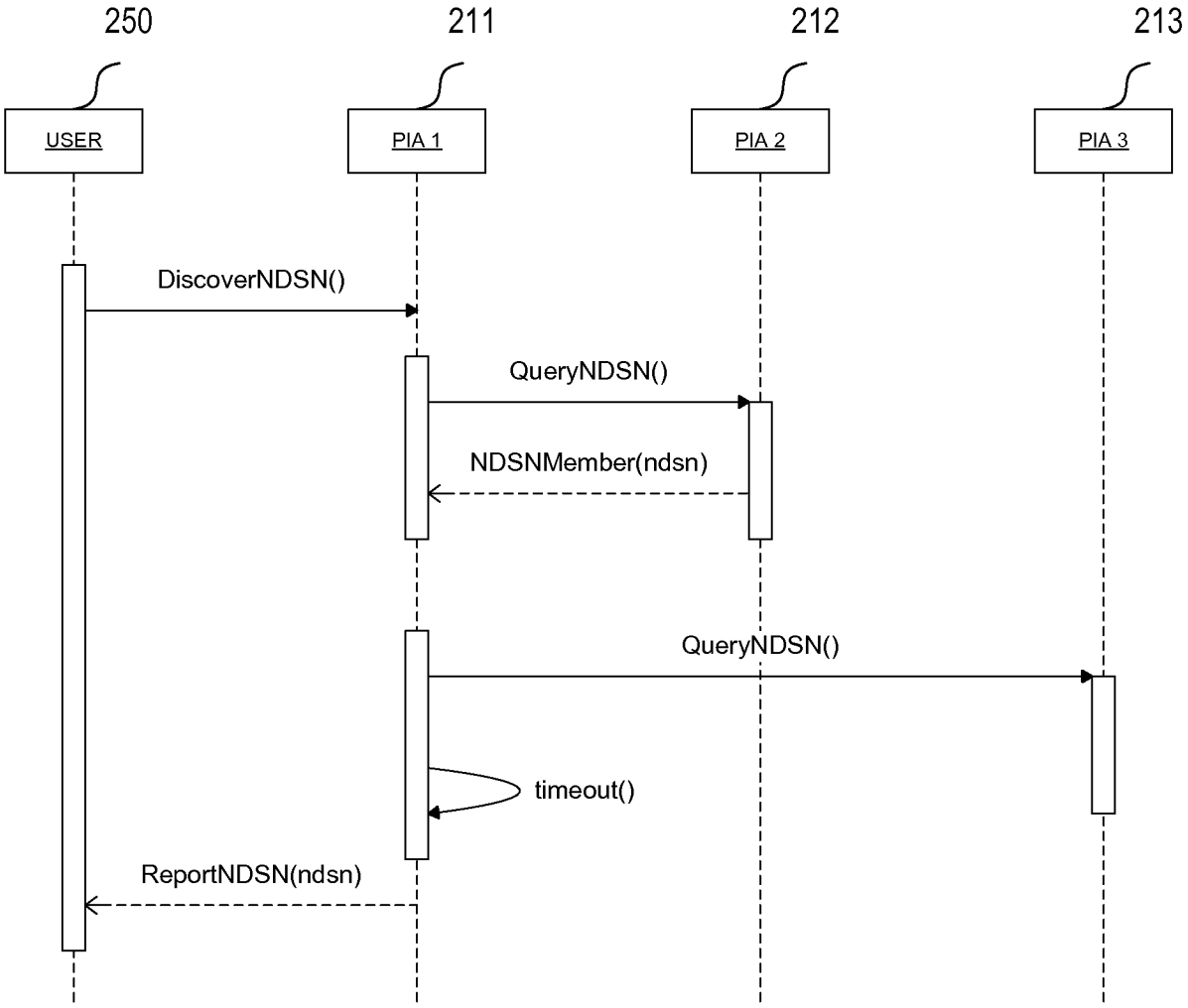

250
211
212
213
USER
PIA 1
PIA 2
PIA 3
DiscoverNDSN()
QueryNDSN()
NDSNMember(ndsn)
QueryNDSN()
timeout()
ReportNDSN(ndsn)

Fig. 14

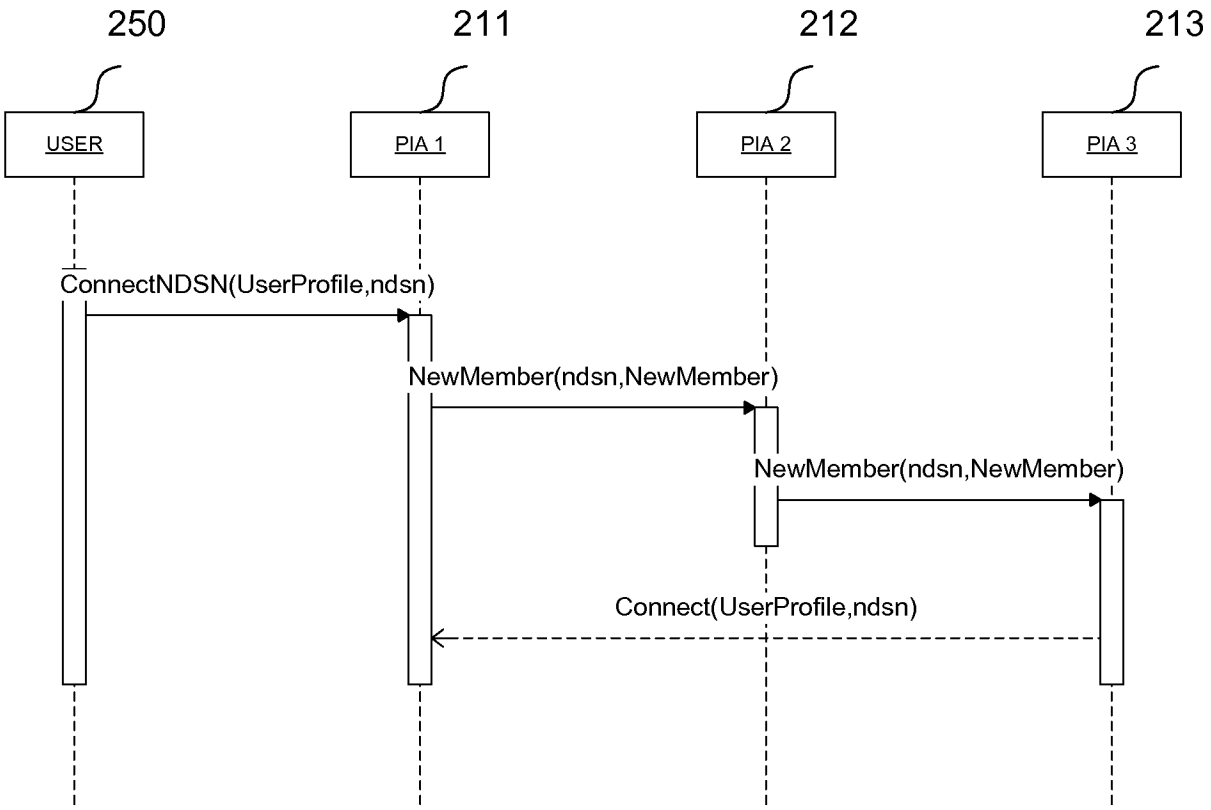

250
211
212
213
USER
PIA 1
PIA 2
PIA 3
ConnectNDSN(UserProfile,ndsn)
NewMember(ndsn,NewMember)
NewMember(ndsn,NewMember)
Connect(UserProfile,ndsn)

Fig. 15

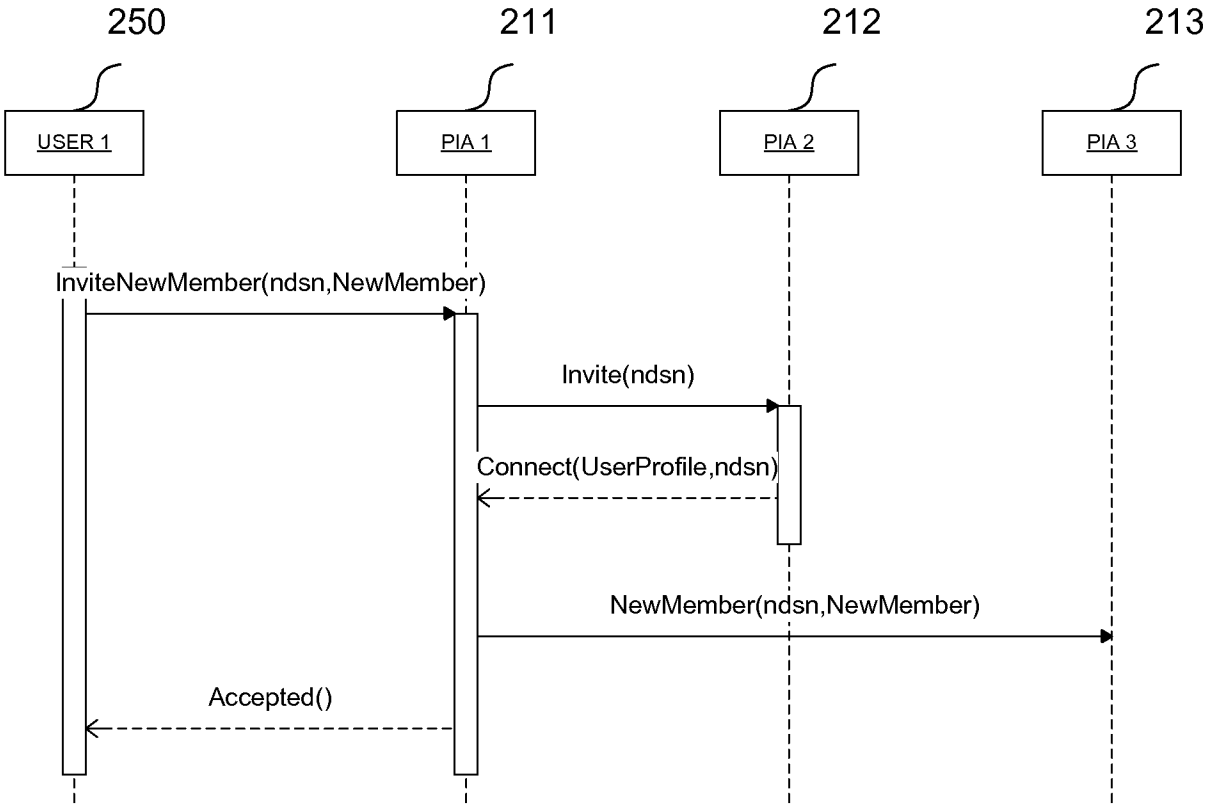

250
211
212
213
USER 1
PIA 1
PIA 2
PIA 3
InviteNewMember(ndsn,NewMember)
Invite(ndsn)
Connect(UserProfile,ndsn)
NewMember(ndsn,NewMember)
Accepted()

Fig. 16

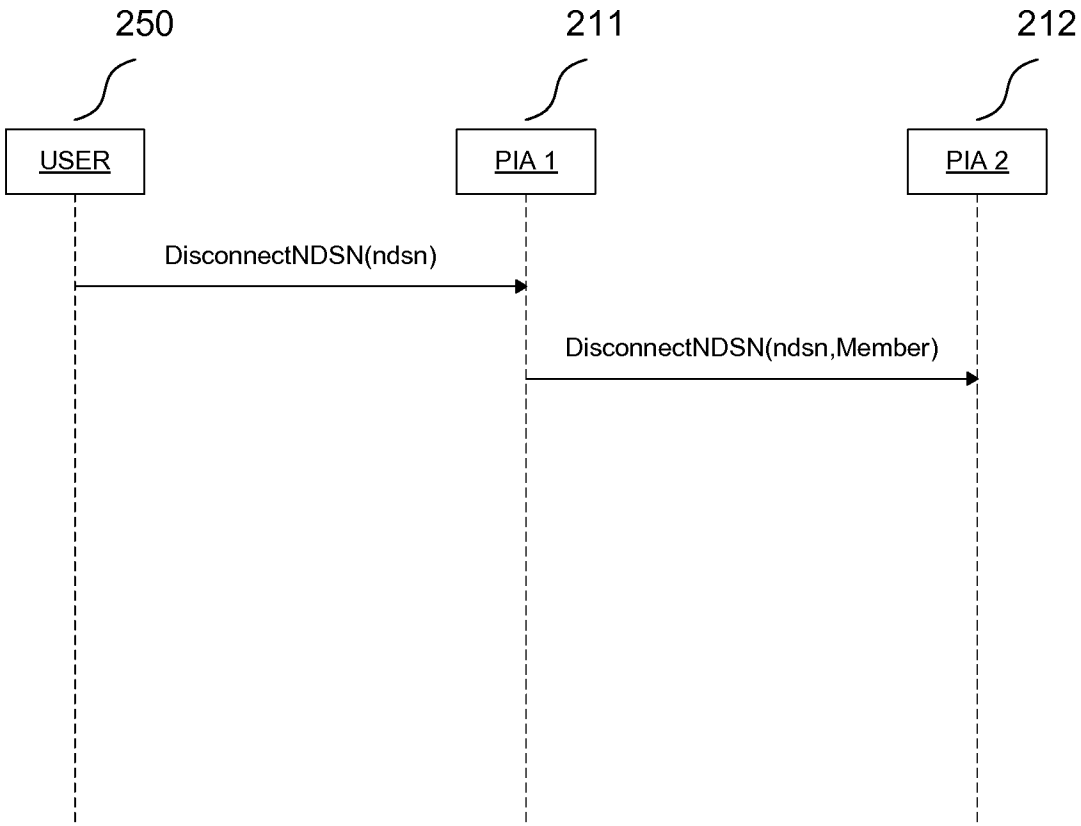

250
211
212
USER
PIA 1
PIA 2
DisconnectNDSN(ndsn)
DisconnectNDSN(ndsn,Member)

Fig. 17

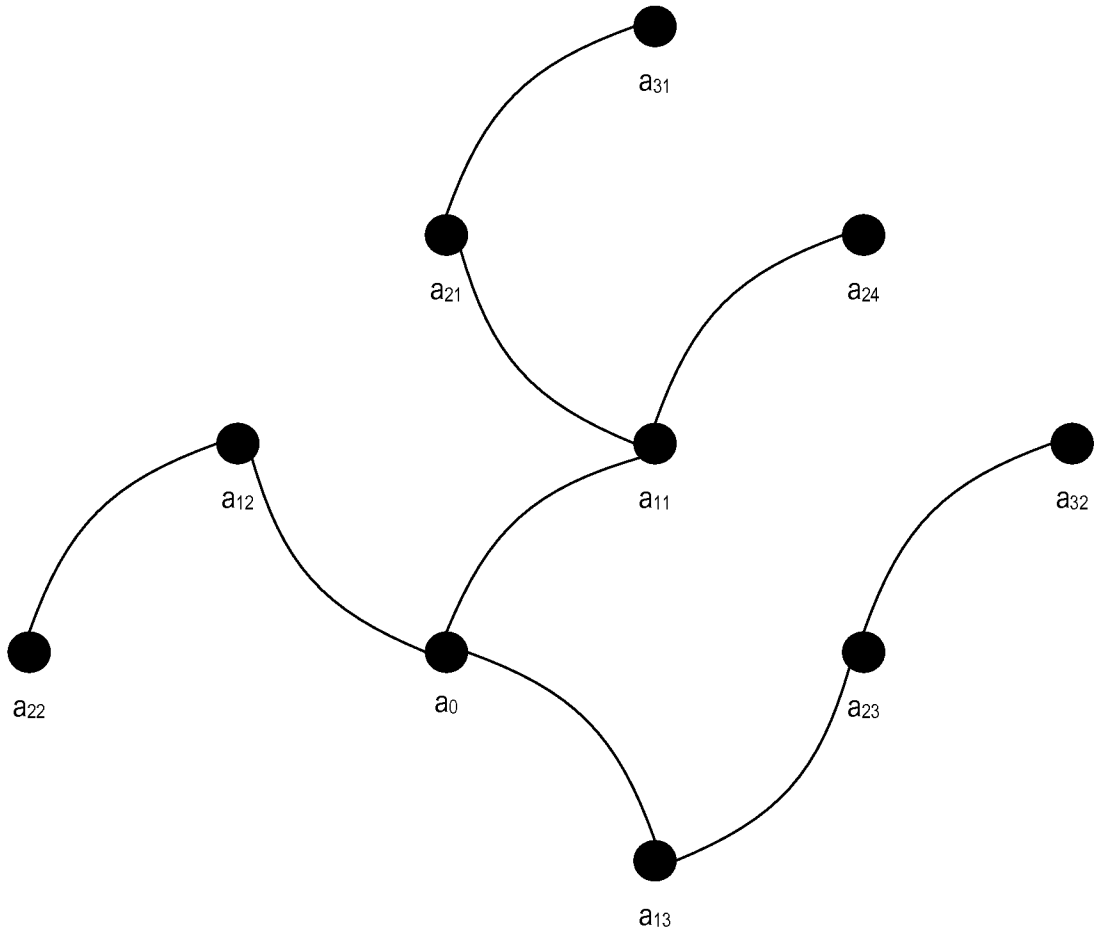


Fig. 18

Fig. 19

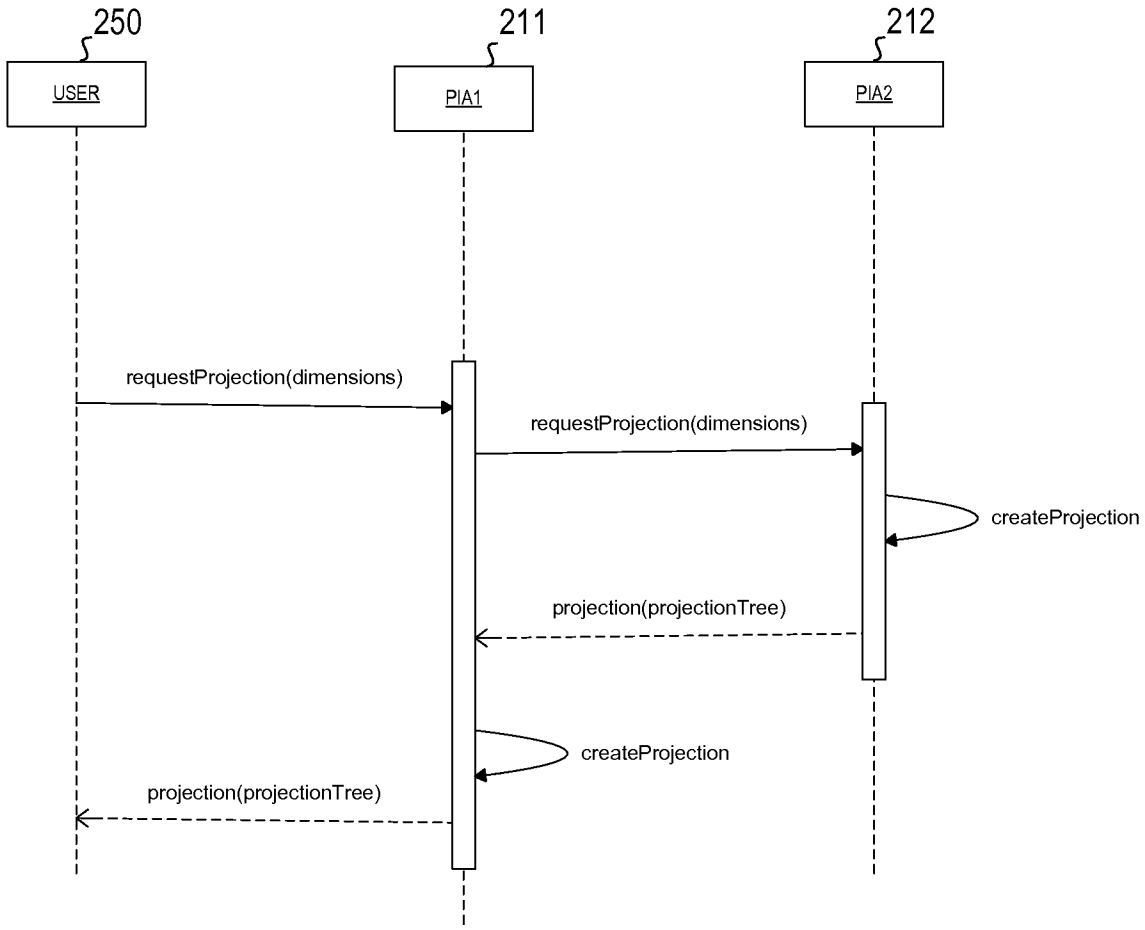

250
211
212
USER
PIA1
PIA2
requestProjection(dimensions)
requestProjection(dimensions)
createProjection
projection(projectionTree)
createProjection
projection(projectionTree)

Fig. 20

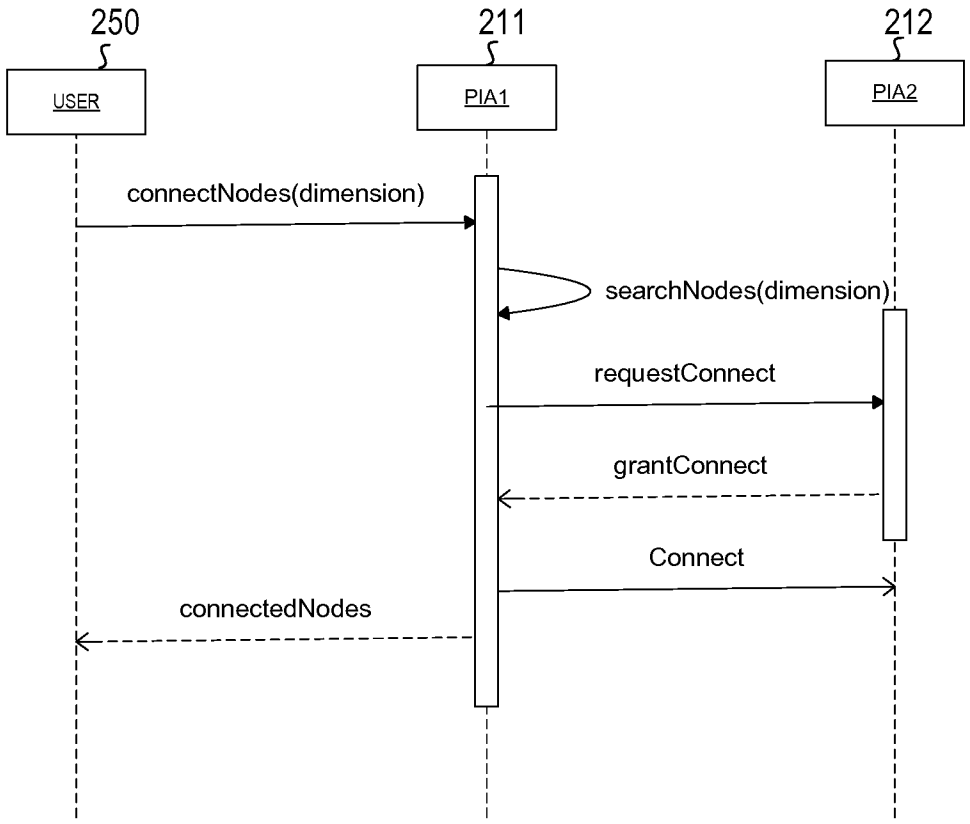

250
211
212
USER
PIA1
PIA2
connectNodes(dimension)
searchNodes(dimension)
requestConnect
grantConnect
Connect
connectedNodes

Fig. 21

Fig. 22

132
134
133
131
138
1150
DATABASE
PROGRAM INSTRUCTIONS
137
136
135

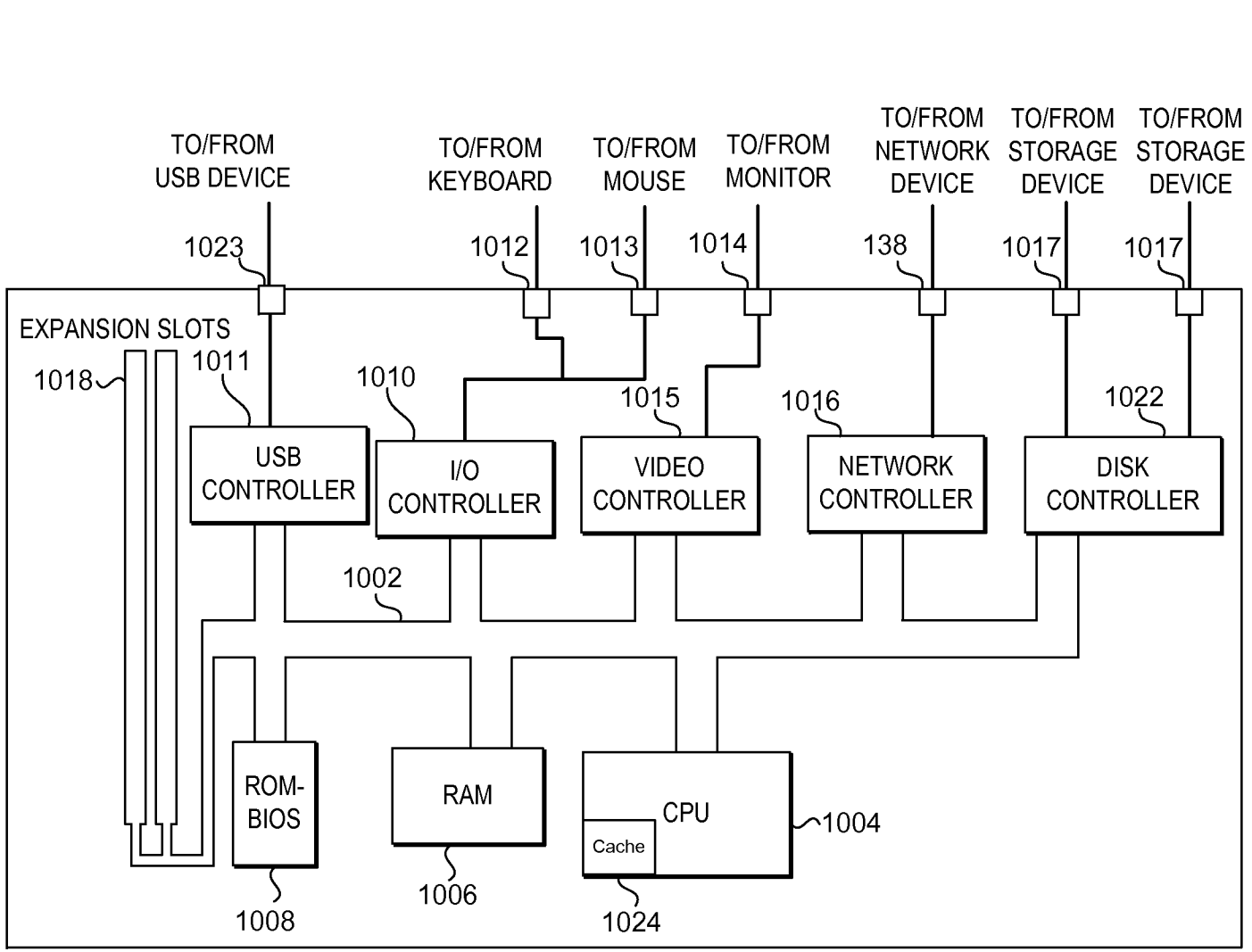

131
TO/FROM USB DEVICE
TO/FROM KEYBOARD
TO/FROM MOUSE
TO/FROM MONITOR
TO/FROM NETWORK DEVICE
TO/FROM STORAGE DEVICE
TO/FROM STORAGE DEVICE
1023
1012
1013
1014
138
1017
1017
EXPANSION SLOTS
1018
1011
1010
1015
1016
1022
USB CONTROLLER
I/O CONTROLLER
VIDEO CONTROLLER
NETWORK CONTROLLER
DISK CONTROLLER
1002
ROM-BIOS
RAM
CPU
Cache
1004
1008
1006
1024

Fig. 23

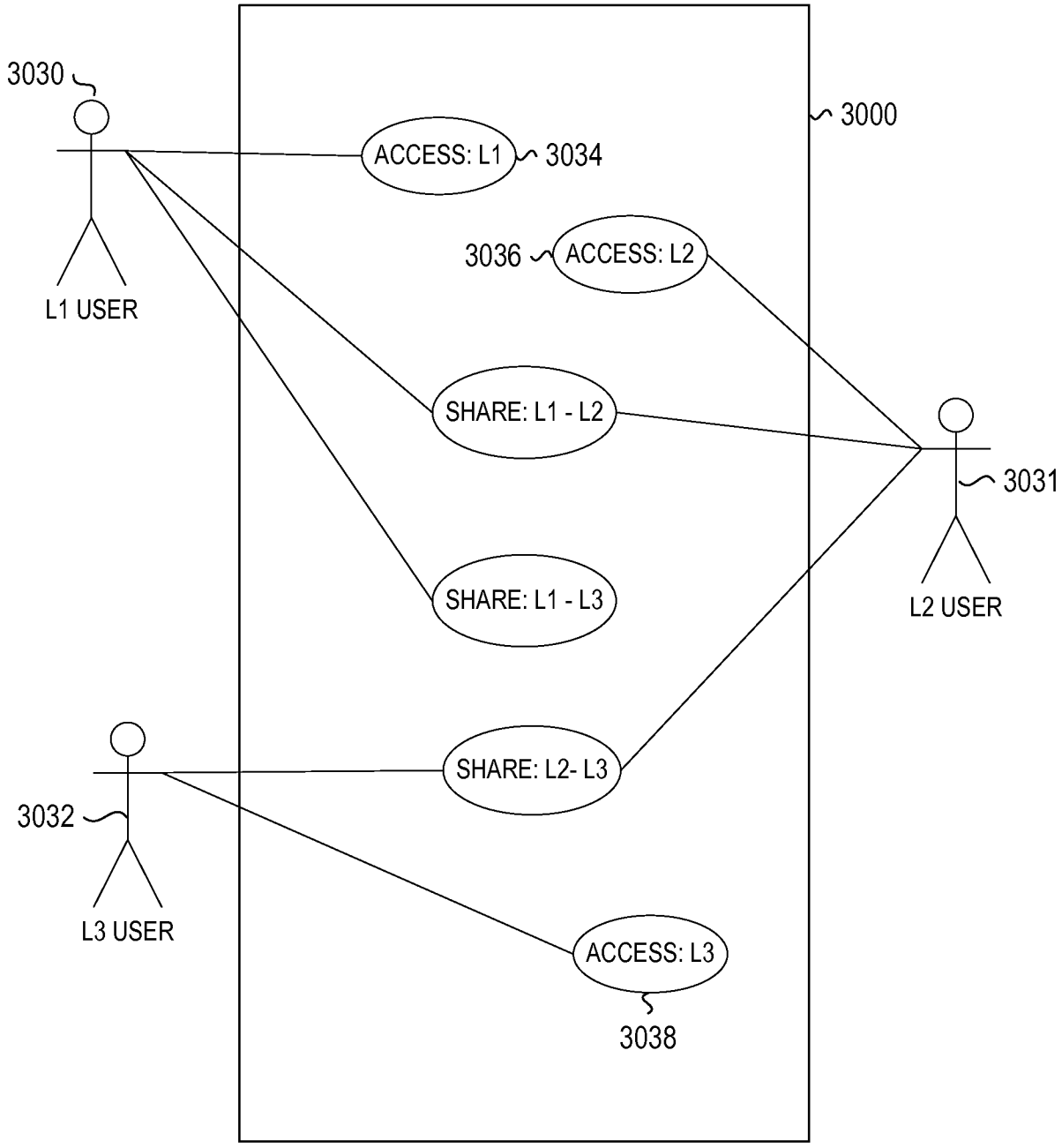
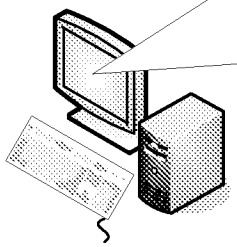

3030
3000
ACCESS: L1
3034
3036
ACCESS: L2
L1 USER
SHARE: L1 - L2
3031
SHARE: L1 - L3
L2 USER
SHARE: L2- L3
3032
L3 USER
ACCESS: L3
3038

Fig. 24

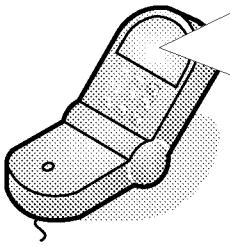


3060

>> ALL SCHOOLS IN SPRINGFIELD SCHOOL DISTRICT CLOSED TOMORROW 2-1-07 DUE TO PREDICTED 12" SNOWFALL TONIGHT. 3066

☒ TEACHERS >>
☒ STAFF: >>Emergency Staff Report at 8 AM.
☒ PARENTS >>
☐ OTHER SD's >>
☒ SNOW REMOVAL: >> Can you have lots plowed by 3 PM.

[NOTIFY] 3068



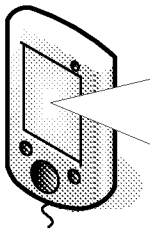
3062

(1-31-2007, 3:46 PM) MESSAGE FROM SPRINGFIELD SCHOOL DISTRICT:
ALL SCHOOLS IN SPRINGFIELD SCHOOL DISTRICT CLOSED TOMORROW 2-1-07 DUE TO PREDICTED 12" SNOWFALL TONIGHT. 3066

WORK >>Will be in late.
SITTERS >>Can anyone take the kids tomorrow?
FRIENDS >>Kids wanna meet at 10 at the Hill for sledding.
SNOW REMOVAL >>Please do our driveway tomorrow when you can.

[NOTIFY] 3068

[REPLY] >>



3064

(1-31-2007, 3:57 PM) MESSAGE FROM JANE DOE:
ALL SCHOOLS IN SPRINGFIELD SCHOOL DISTRICT CLOSED TOMORROW 2-1-07 DUE TO PREDICTED 12" SNOWFALL TONIGHT. 3066
CAN ANYONE TAKE THE KIDS TOMORROW? 3069

WORK >>
FRIENDS >>I will be at Jane's tomorrow.
FAMILY >>

[NOTIFY] 3068

[REPLY] >> I can come over by 8:30 AM. 3067

Fig. 25

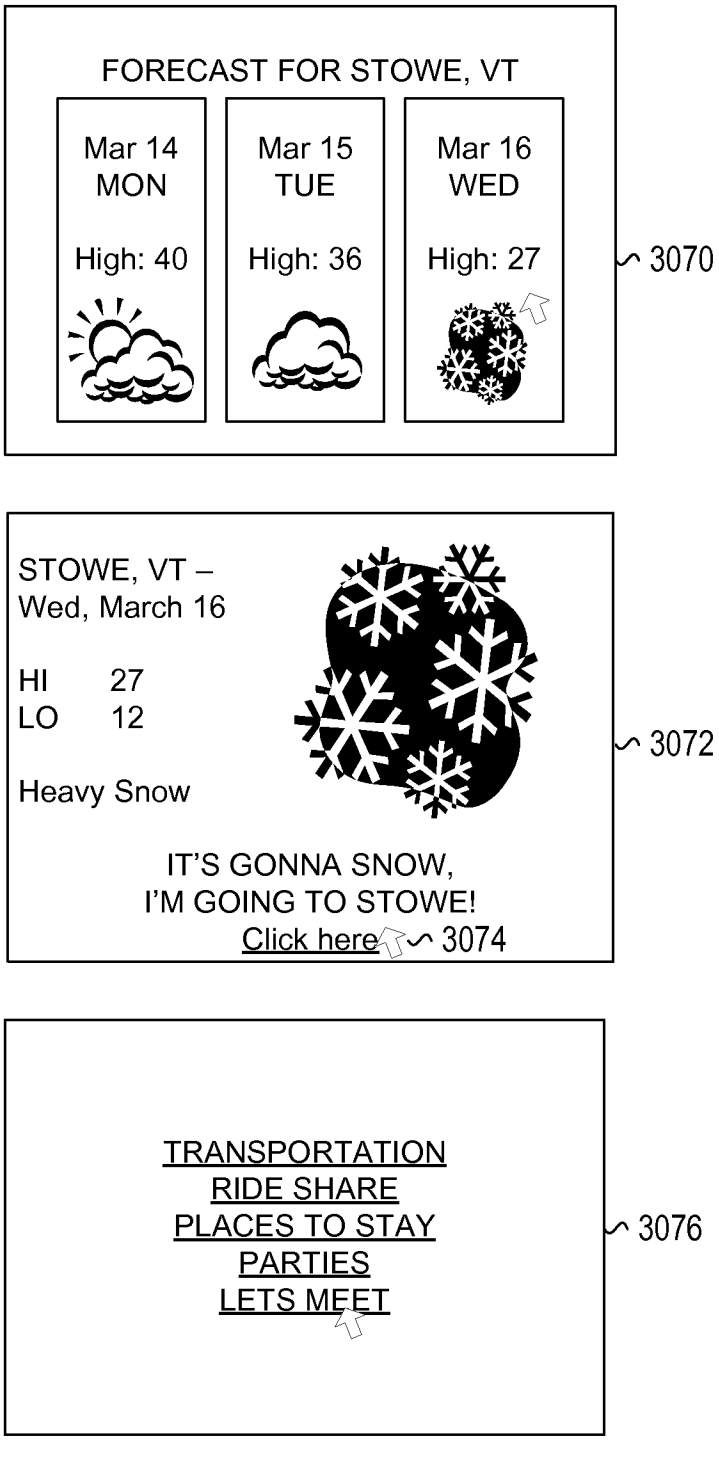

FORECAST FOR STOWE, VT
Mar 14
MON
High: 40
Mar 15
TUE
High: 36
Mar 16
WED
High: 27
3070
STOWE, VT –
Wed, March 16
HI 27
LO 12
Heavy Snow
3072
IT'S GONNA SNOW,
I'M GOING TO STOWE!
Click here
3074
TRANSPORTATION
RIDE SHARE
PLACES TO STAY
PARTIES
LETS MEET
3076

Fig. 26

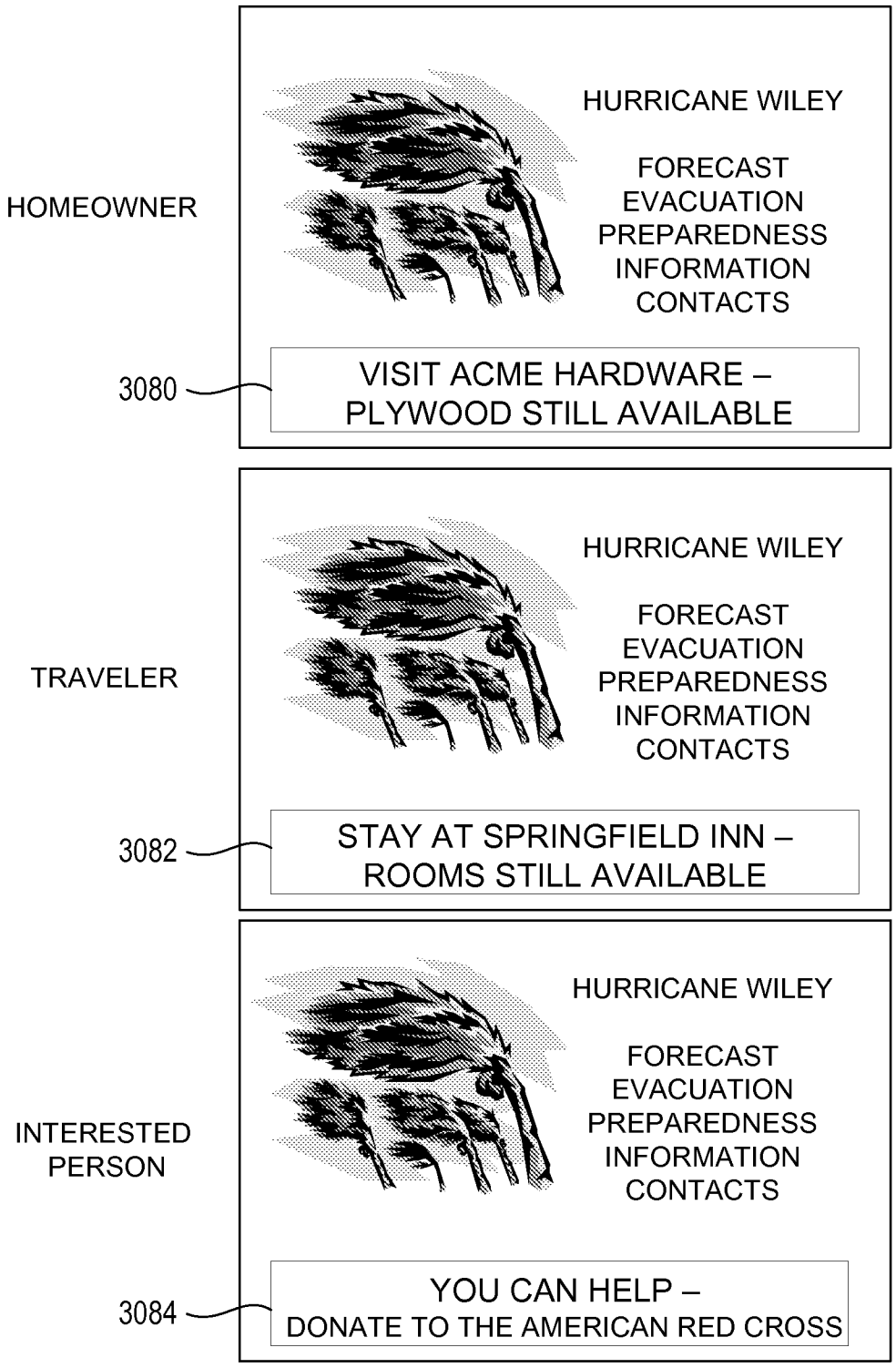

HOMEOWNER
HURRICANE WILEY
FORECAST
EVACUATION
PREPAREDNESS
INFORMATION
CONTACTS
3080
VISIT ACME HARDWARE –
PLYWOOD STILL AVAILABLE
TRAVELER
HURRICANE WILEY
FORECAST
EVACUATION
PREPAREDNESS
INFORMATION
CONTACTS
3082
STAY AT SPRINGFIELD INN –
ROOMS STILL AVAILABLE
INTERESTED
PERSON
HURRICANE WILEY
FORECAST
EVACUATION
PREPAREDNESS
INFORMATION
CONTACTS
3084
YOU CAN HELP –
DONATE TO THE AMERICAN RED CROSS

Fig. 27

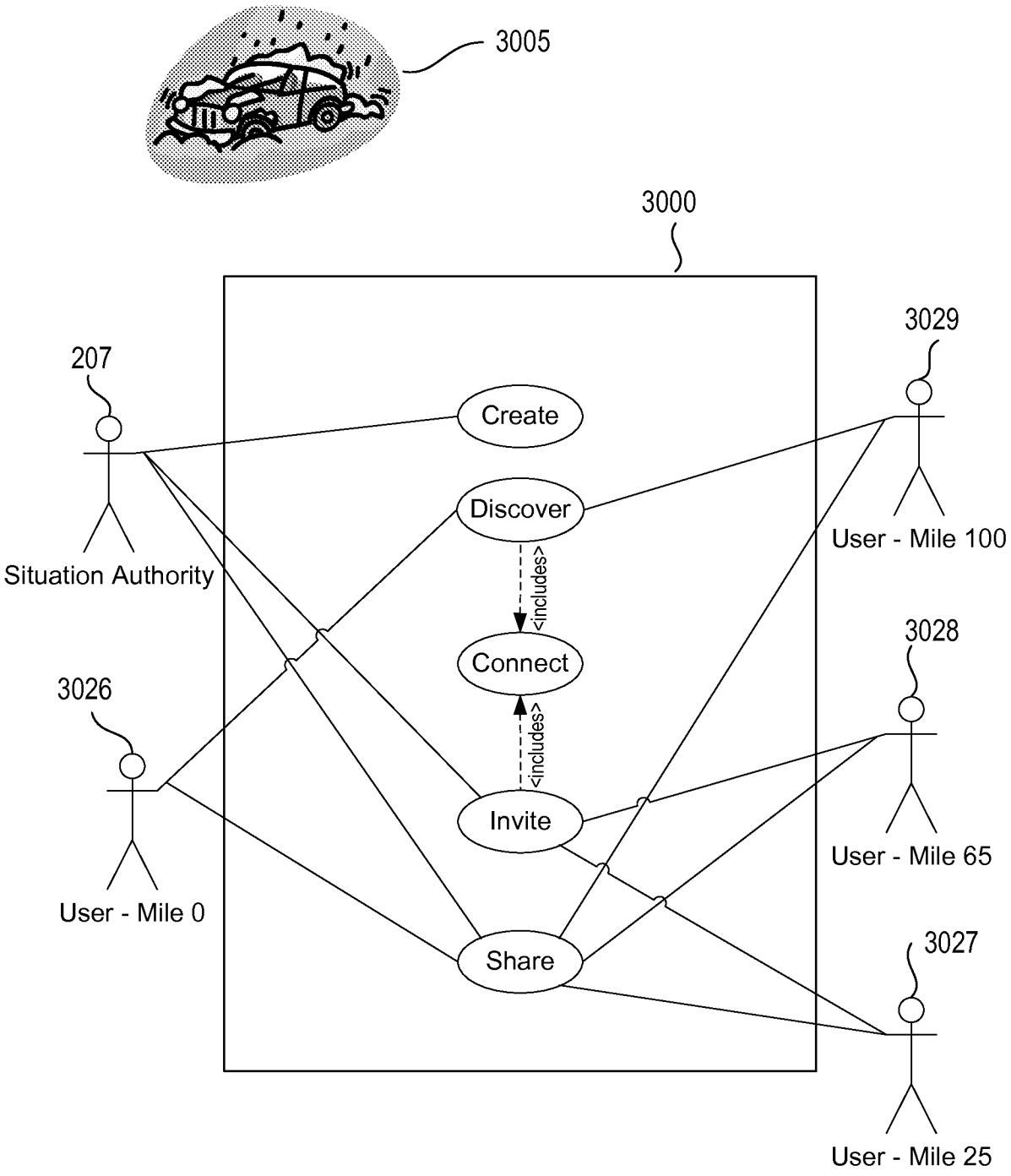

3005
3000
207
3029
Create
Discover
Situation Authority
User - Mile 100
<includes>
3028
Connect
3026
<includes>
Invite
User - Mile 65
User - Mile 0
3027
Share
User - Mile 25

Fig. 28

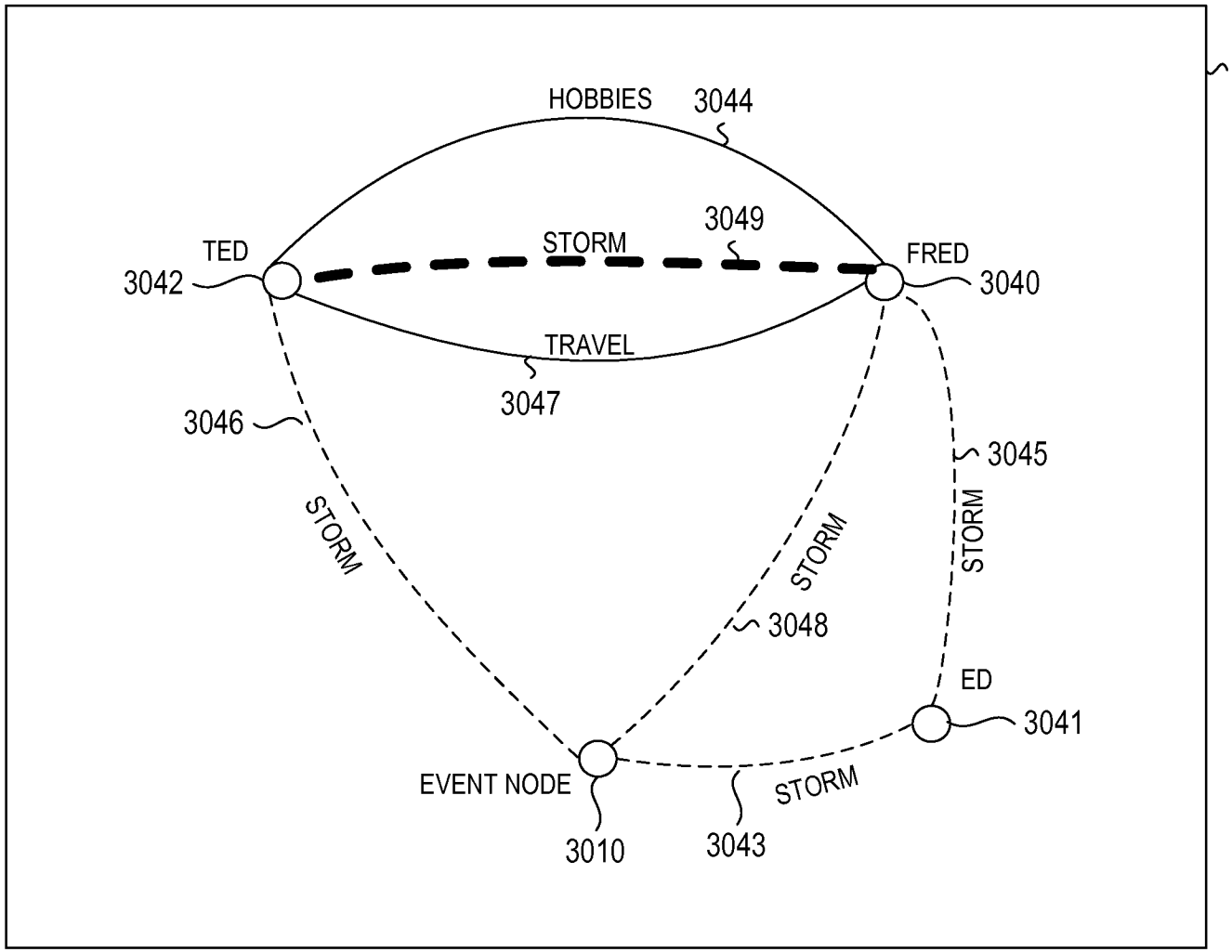


Fig. 29

TITLE: CREATING A PROJECTION OF A SITUATIONAL NETWORK
INVENTORS: CONA, Thomas, et al
0112

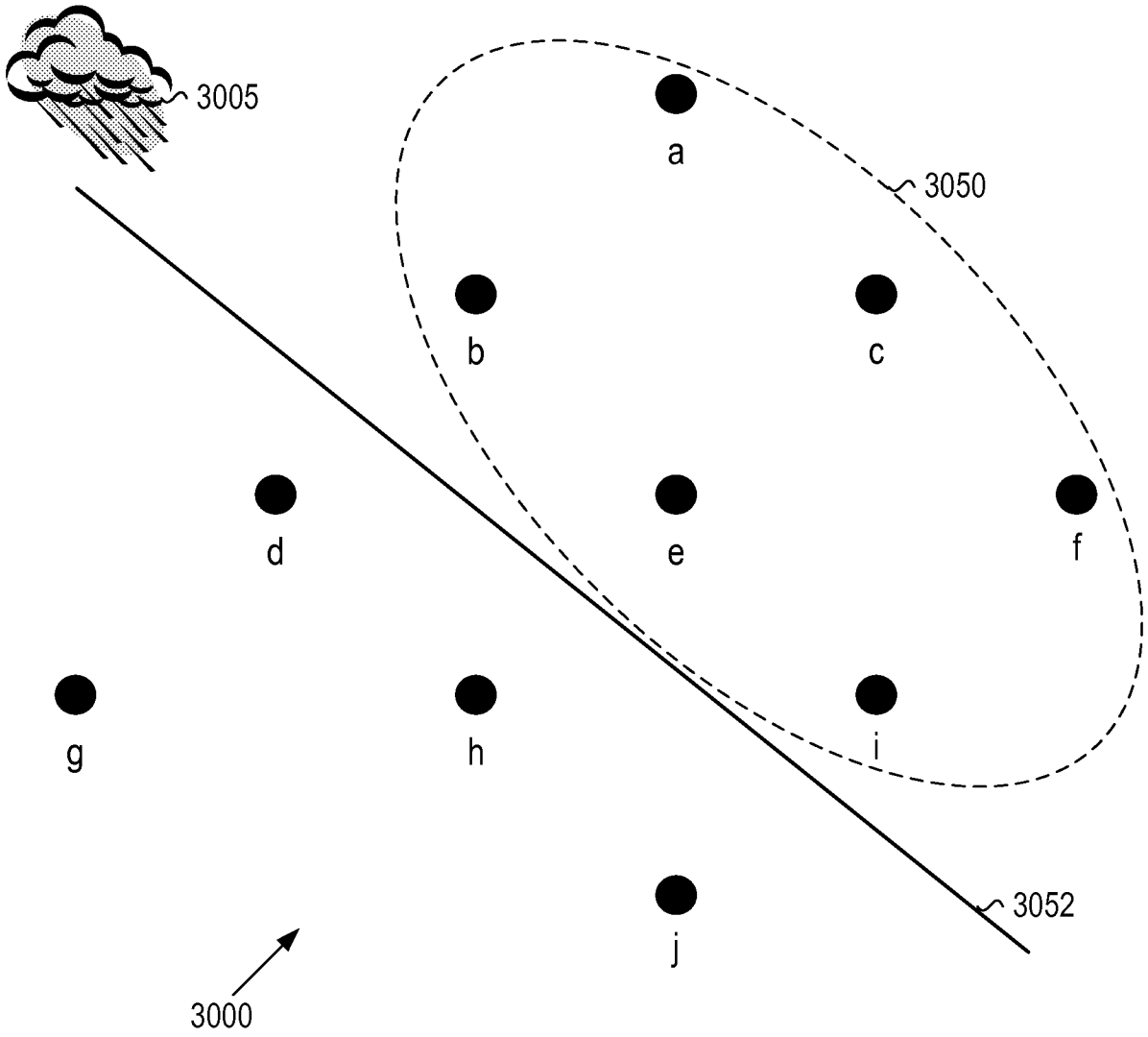


Fig. 30

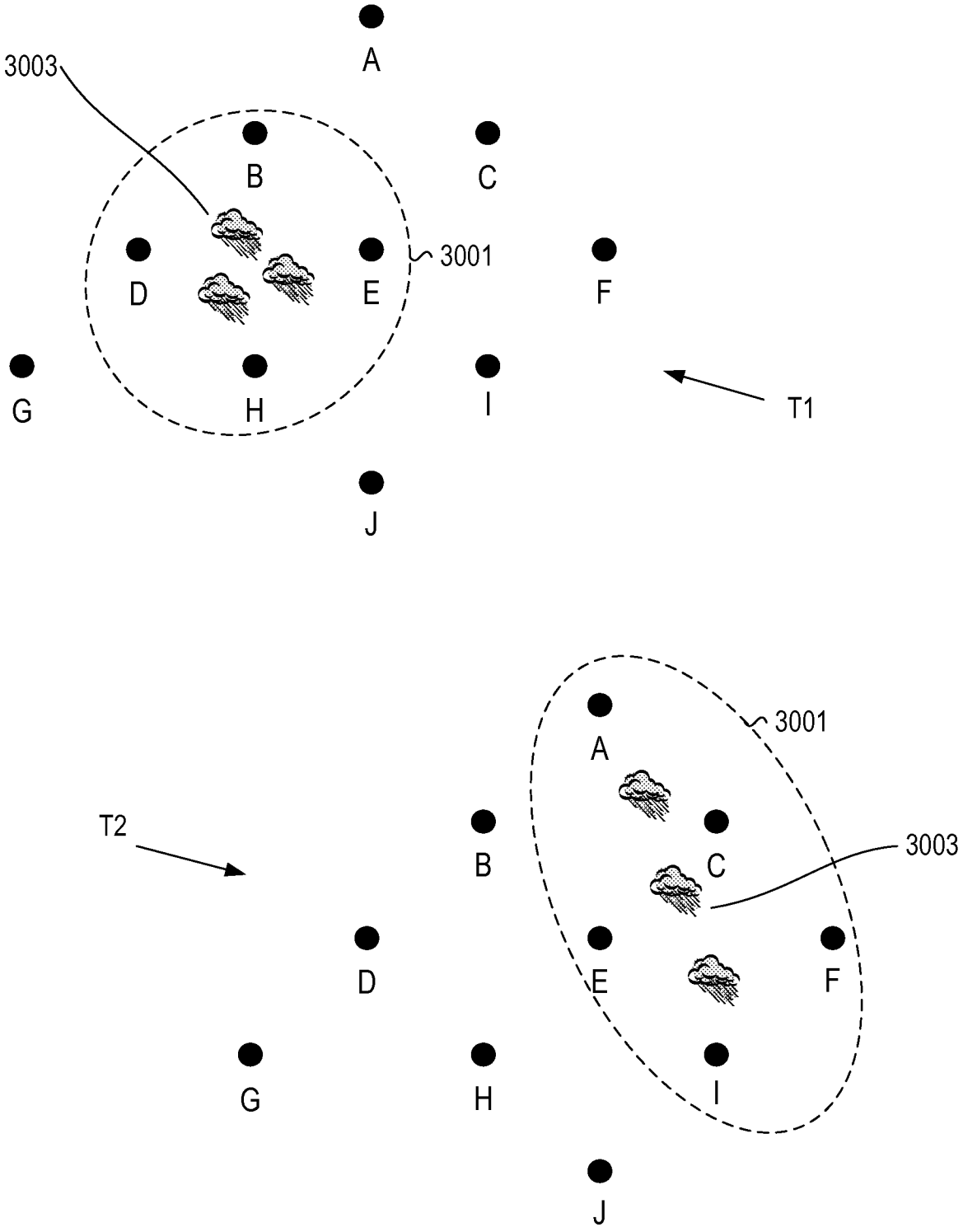


Fig. 31

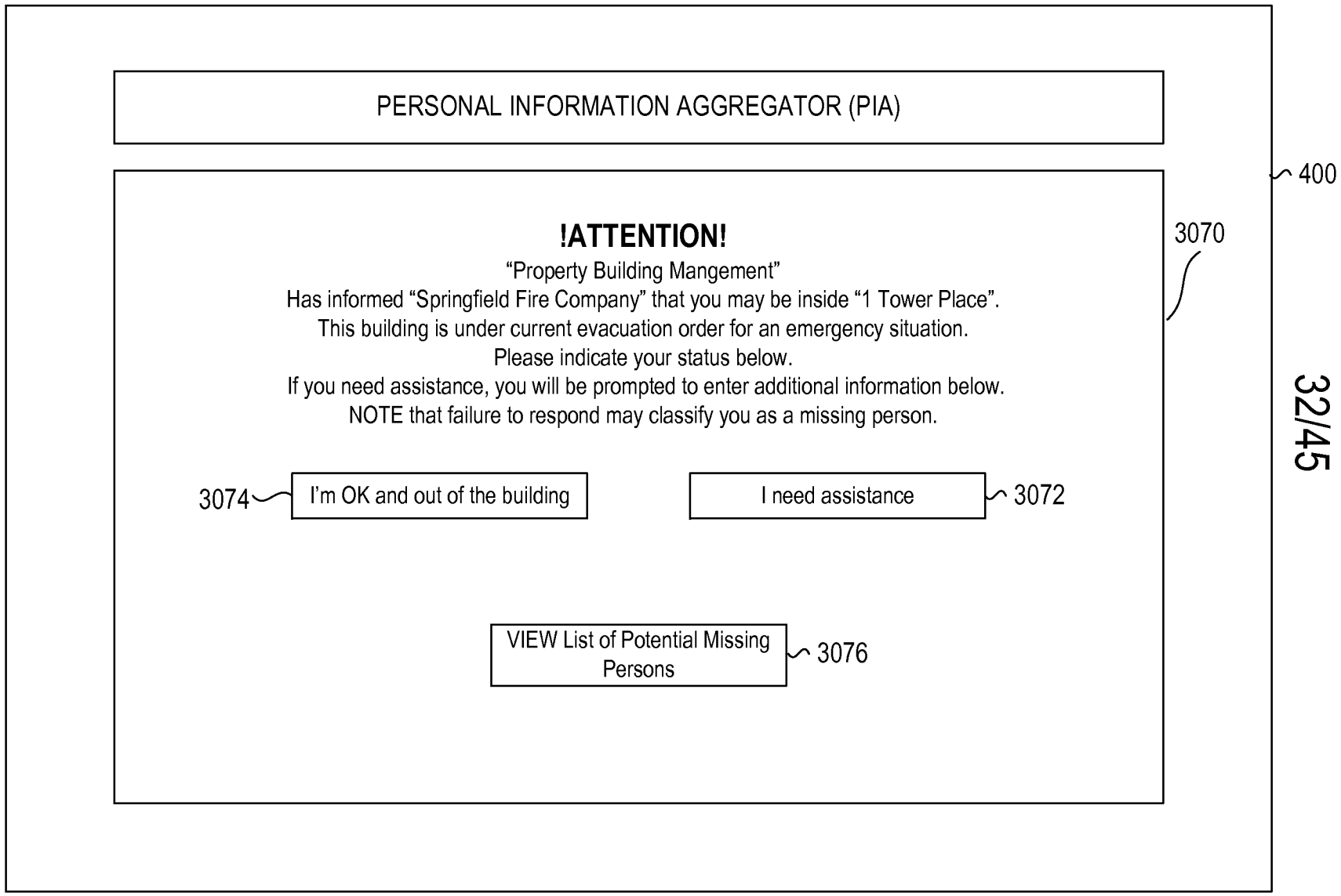


Fig. 32

TITLE: CREATING A PROJECTION OF A SITUATIONAL NETWORK
INVENTORS: CONA, Thomas, et al
0115

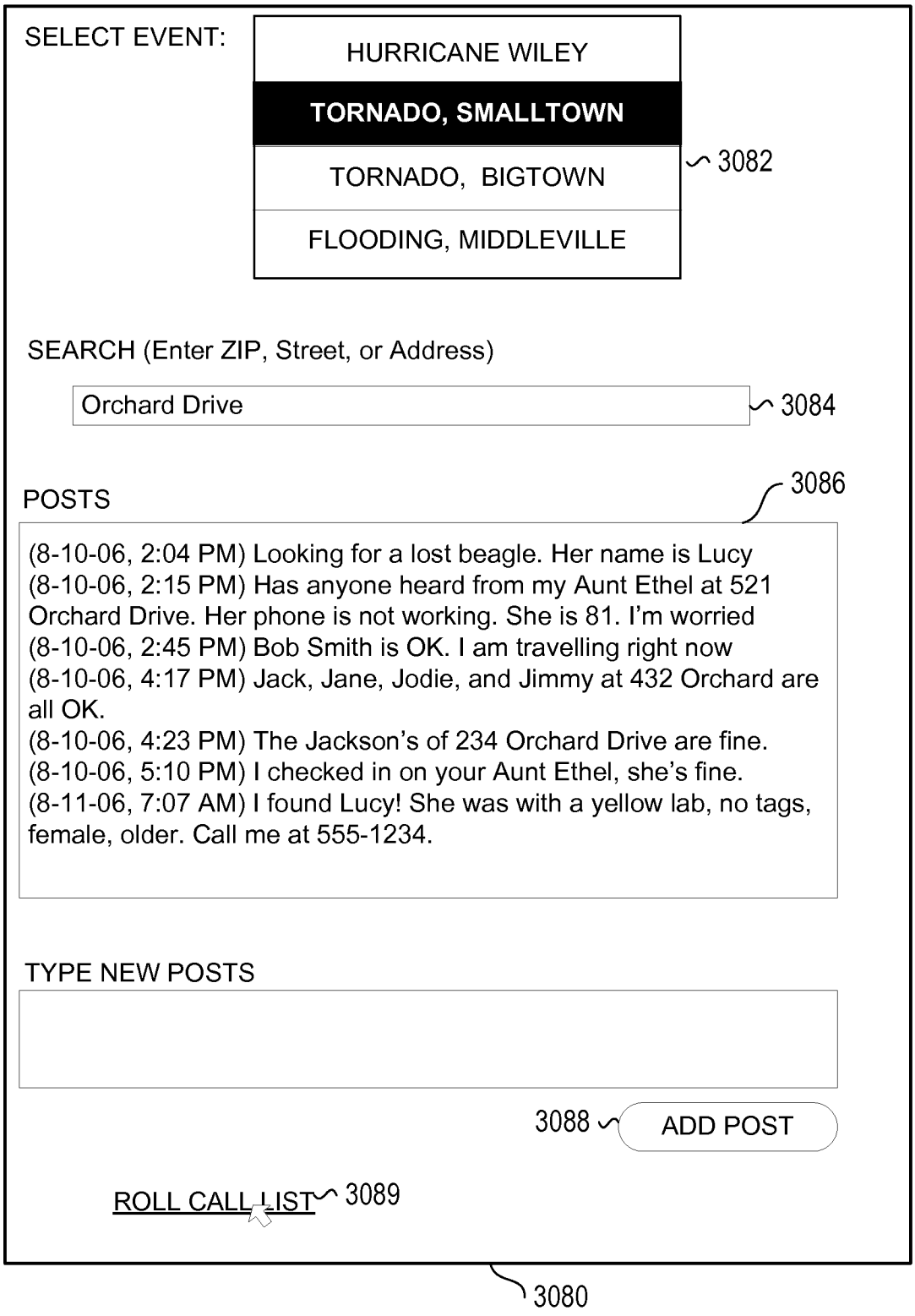

SELECT EVENT:
HURRICANE WILEY
TORNADO, SMALLTOWN
TORNADO, BIGTOWN
FLOODING, MIDDLEVILLE
3082
SEARCH (Enter ZIP, Street, or Address)
Orchard Drive
3084
POSTS
3086
(8-10-06, 2:04 PM) Looking for a lost beagle. Her name is Lucy
(8-10-06, 2:15 PM) Has anyone heard from my Aunt Ethel at 521 Orchard Drive. Her phone is not working. She is 81. I'm worried
(8-10-06, 2:45 PM) Bob Smith is OK. I am travelling right now
(8-10-06, 4:17 PM) Jack, Jane, Jodie, and Jimmy at 432 Orchard are all OK.
(8-10-06, 4:23 PM) The Jackson's of 234 Orchard Drive are fine.
(8-10-06, 5:10 PM) I checked in on your Aunt Ethel, she's fine.
(8-11-06, 7:07 AM) I found Lucy! She was with a yellow lab, no tags, female, older. Call me at 555-1234.
TYPE NEW POSTS
3088
ADD POST
ROLL CALL LIST
3089
3080

Fig. 33

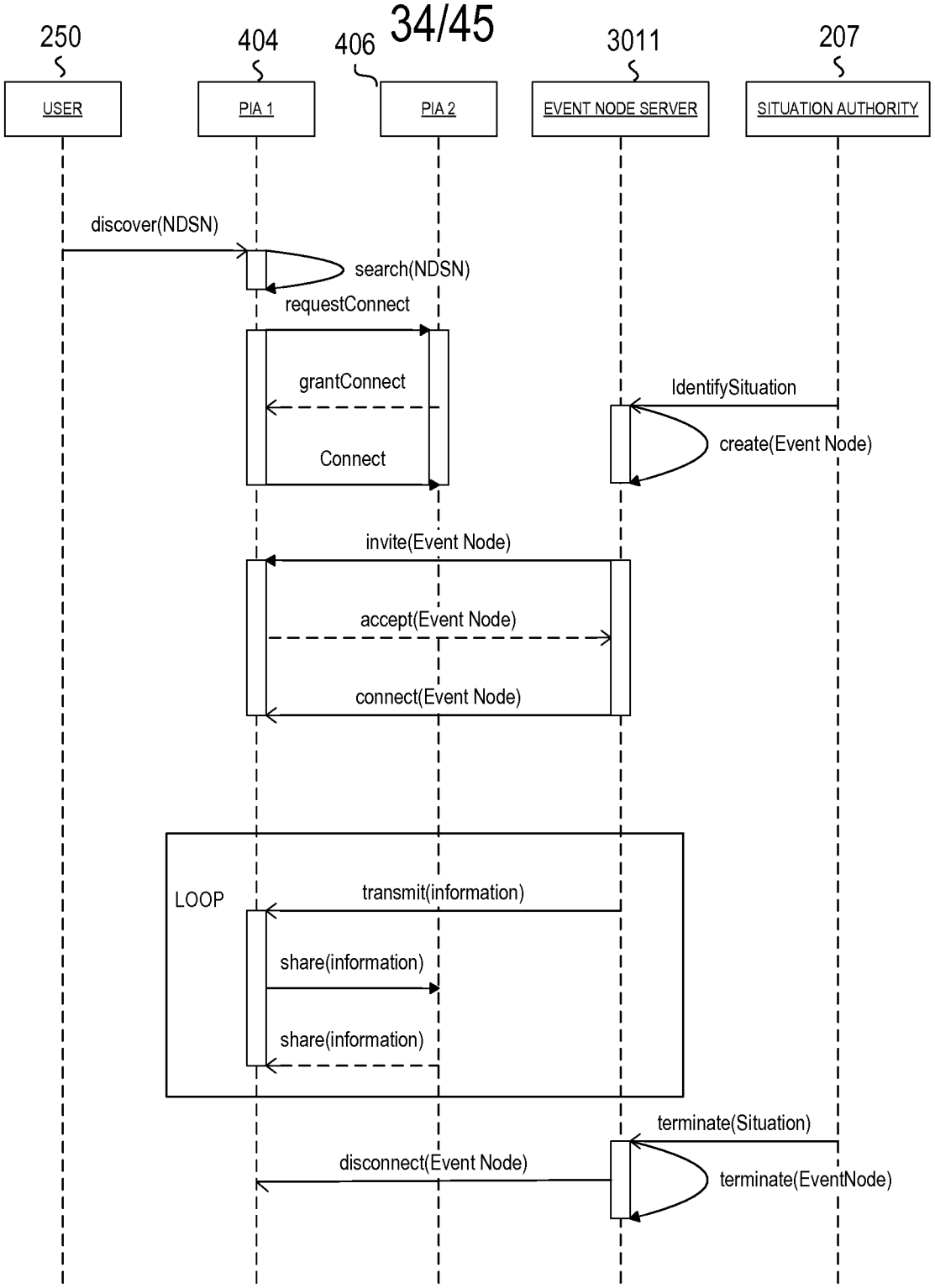

250
404
406
3011
207
USER
PIA 1
PIA 2
EVENT NODE SERVER
SITUATION AUTHORITY
discover(NDSN)
search(NDSN)
requestConnect
grantConnect
Connect
IdentifySituation
create(Event Node)
invite(Event Node)
accept(Event Node)
connect(Event Node)
LOOP
transmit(information)
share(information)
share(information)
terminate(Situation)
disconnect(Event Node)
terminate(EventNode)

Fig. 34

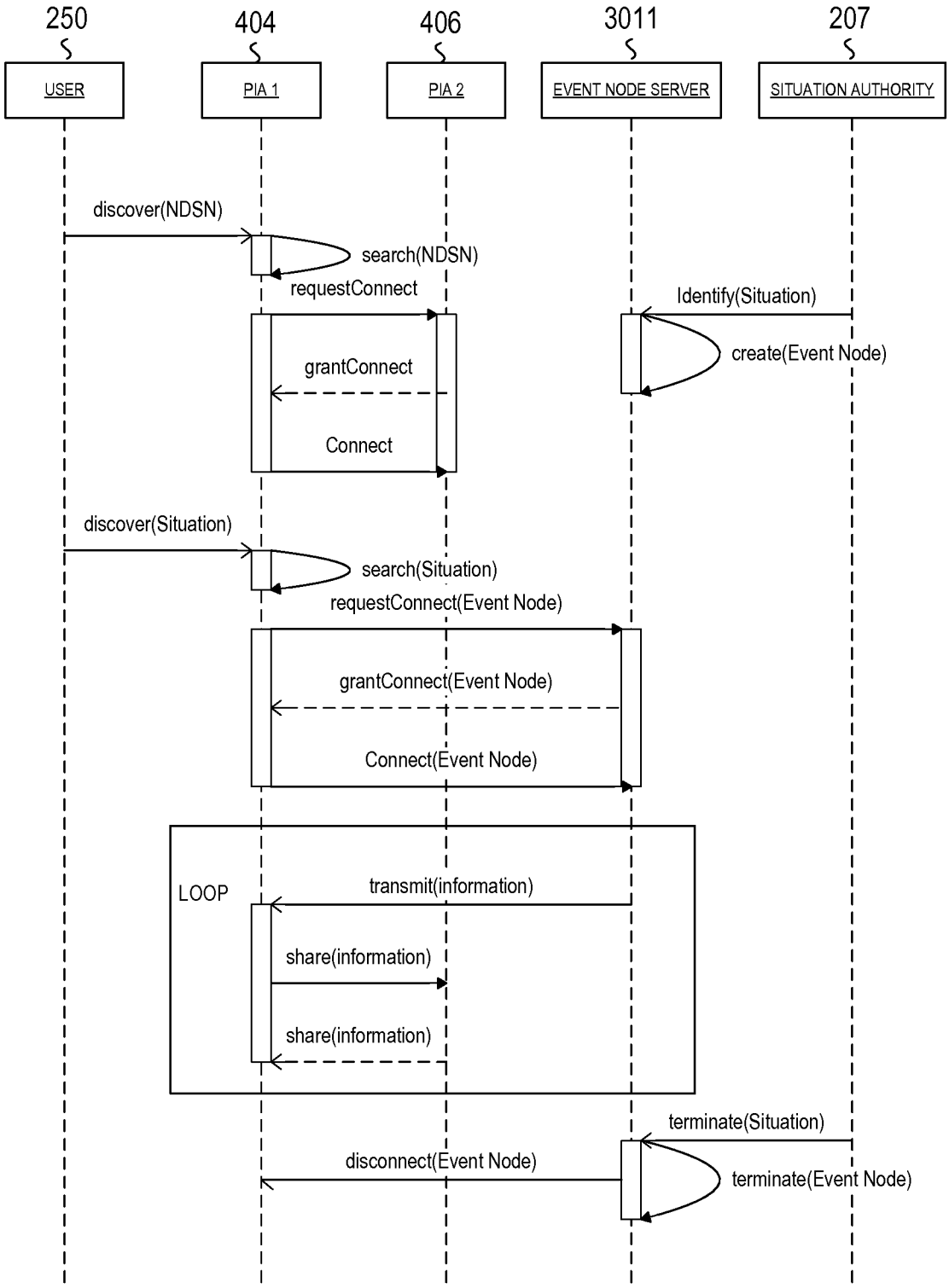

250
404
406
3011
207
USER
PIA 1
PIA 2
EVENT NODE SERVER
SITUATION AUTHORITY
discover(NDSN)
search(NDSN)
requestConnect
Identify(Situation)
create(Event Node)
grantConnect
Connect
discover(Situation)
search(Situation)
requestConnect(Event Node)
grantConnect(Event Node)
Connect(Event Node)
LOOP
transmit(information)
share(information)
share(information)
terminate(Situation)
disconnect(Event Node)
terminate(Event Node)

Fig. 35

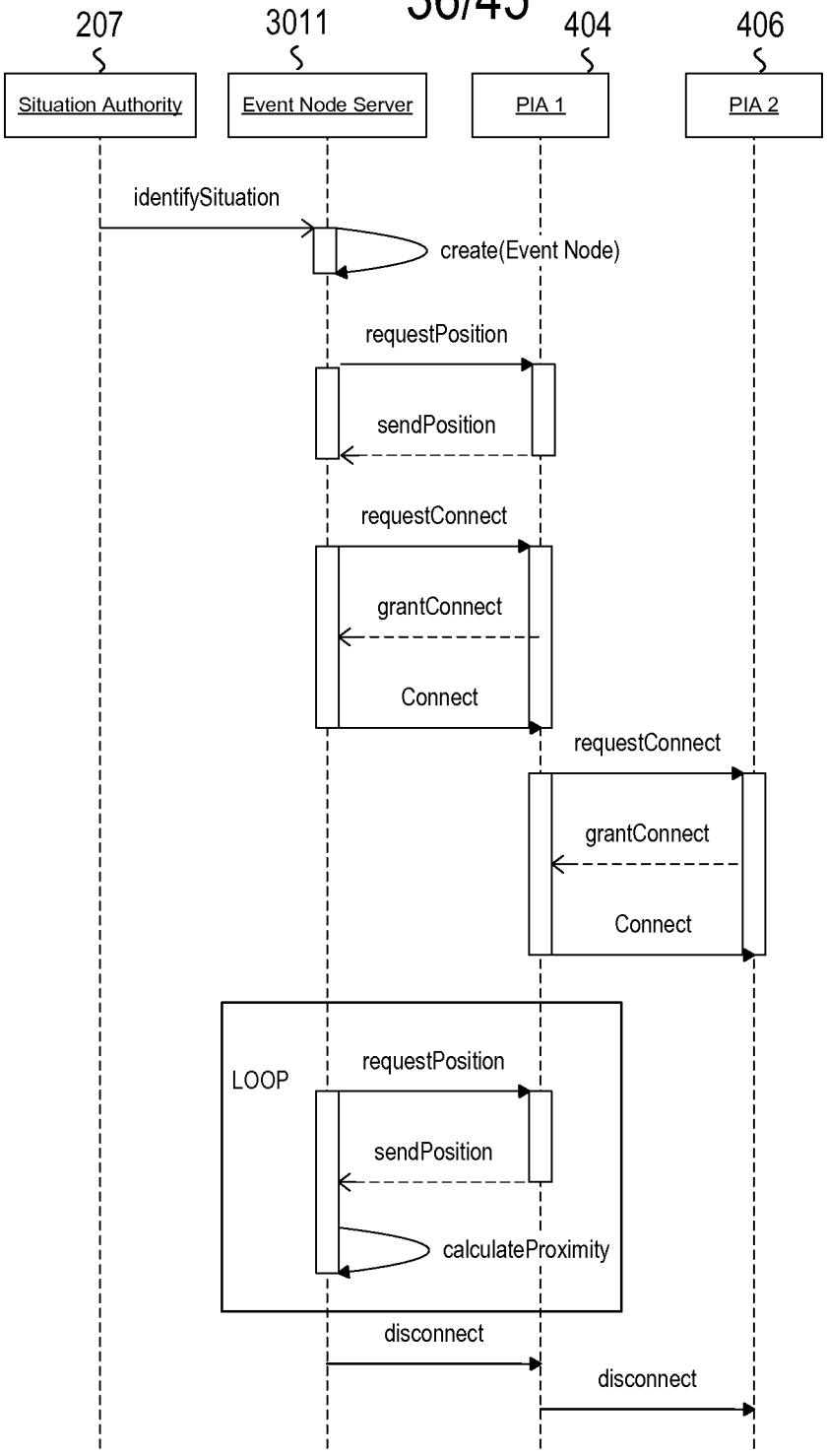

207
3011
404
406
Situation Authority
Event Node Server
PIA 1
PIA 2
identifySituation
create(Event Node)
requestPosition
sendPosition
requestConnect
grantConnect
Connect
requestConnect
grantConnect
Connect
LOOP
requestPosition
sendPosition
calculateProximity
disconnect
disconnect

Fig. 36

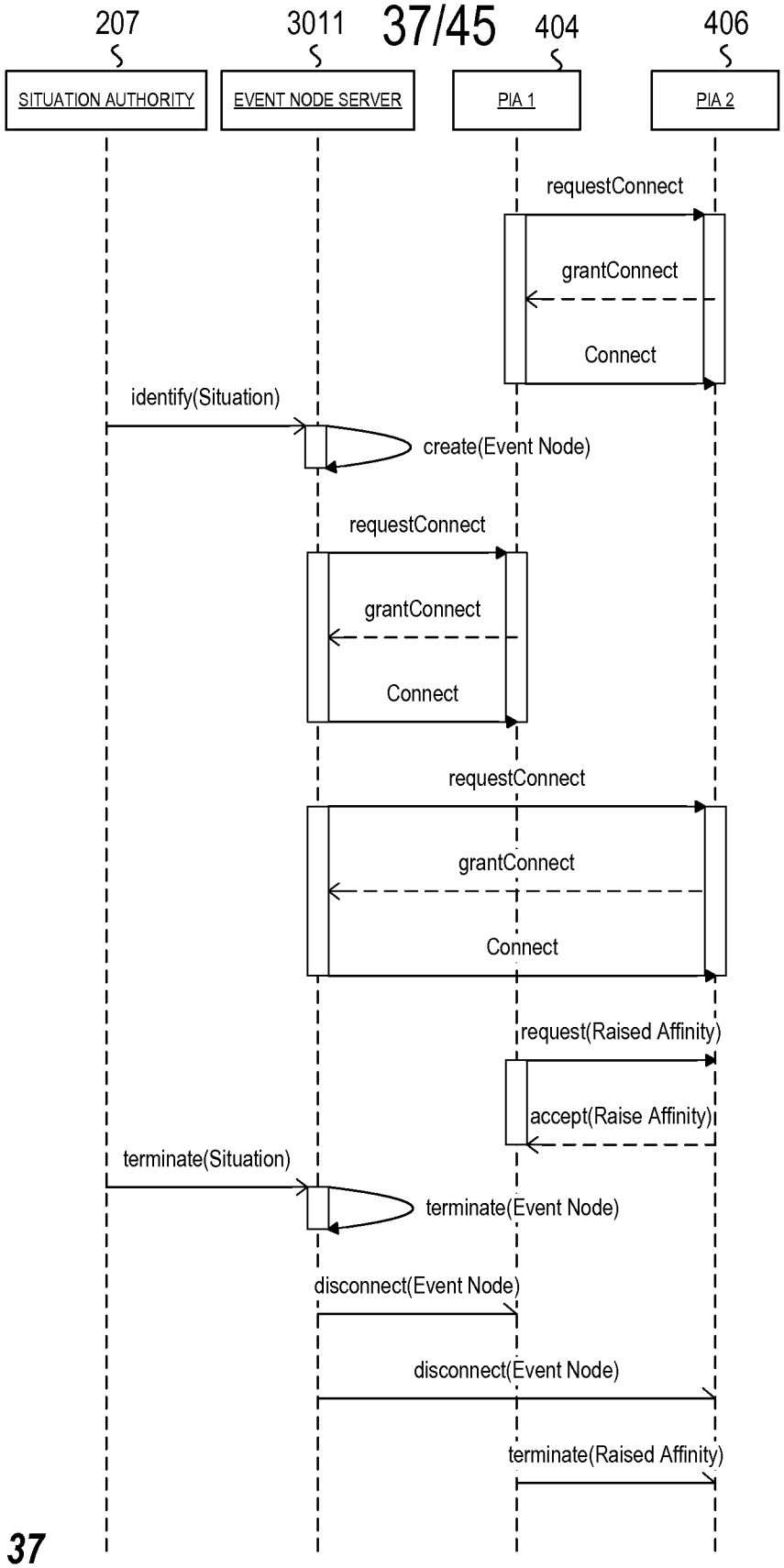

207
3011
404
406
SITUATION AUTHORITY
EVENT NODE SERVER
PIA 1
PIA 2
requestConnect
grantConnect
Connect
identify(Situation)
create(Event Node)
requestConnect
grantConnect
Connect
requestConnect
grantConnect
Connect
request(Raised Affinity)
accept(Raise Affinity)
terminate(Situation)
terminate(Event Node)
disconnect(Event Node)
disconnect(Event Node)
terminate(Raised Affinity)

Fig. 37

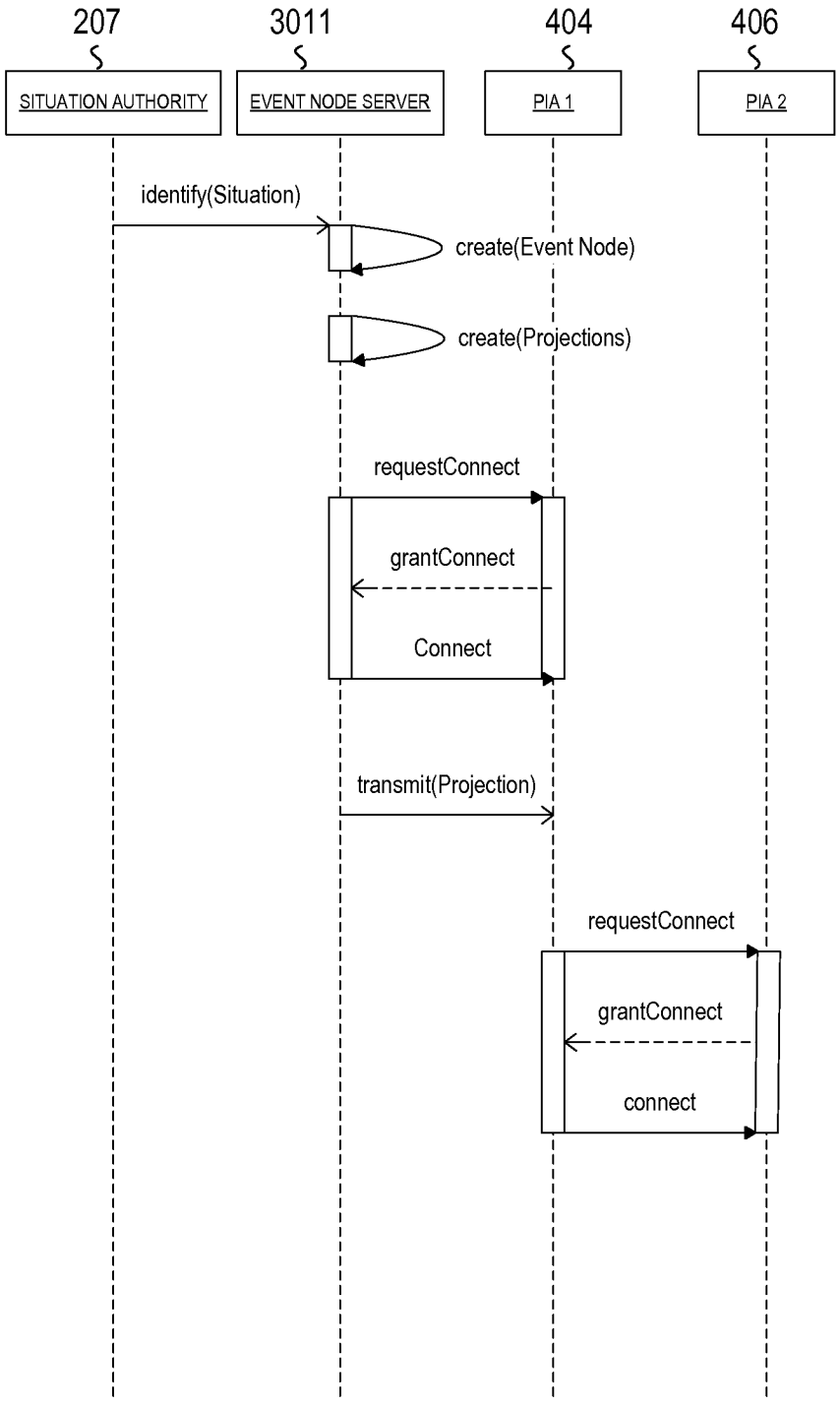

207
3011
404
406
SITUATION AUTHORITY
EVENT NODE SERVER
PIA 1
PIA 2
identify(Situation)
create(Event Node)
create(Projections)
requestConnect
grantConnect
Connect
transmit(Projection)
requestConnect
grantConnect
connect

Fig. 38

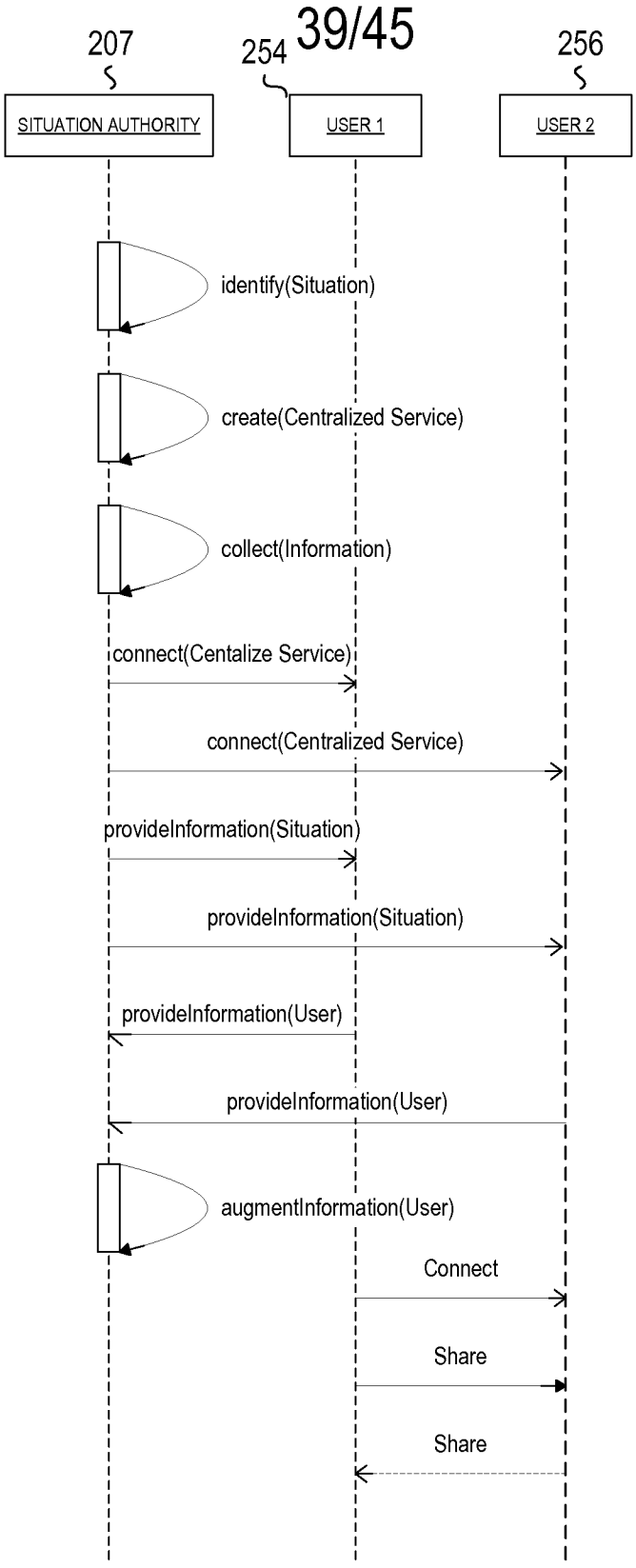

207
254
256
SITUATION AUTHORITY
USER 1
USER 2
identify(Situation)
create(Centralized Service)
collect(Information)
connect(Centalize Service)
connect(Centralized Service)
provideInformation(Situation)
provideInformation(Situation)
provideInformation(User)
provideInformation(User)
augmentInformation(User)
Connect
Share
Share

Fig. 39

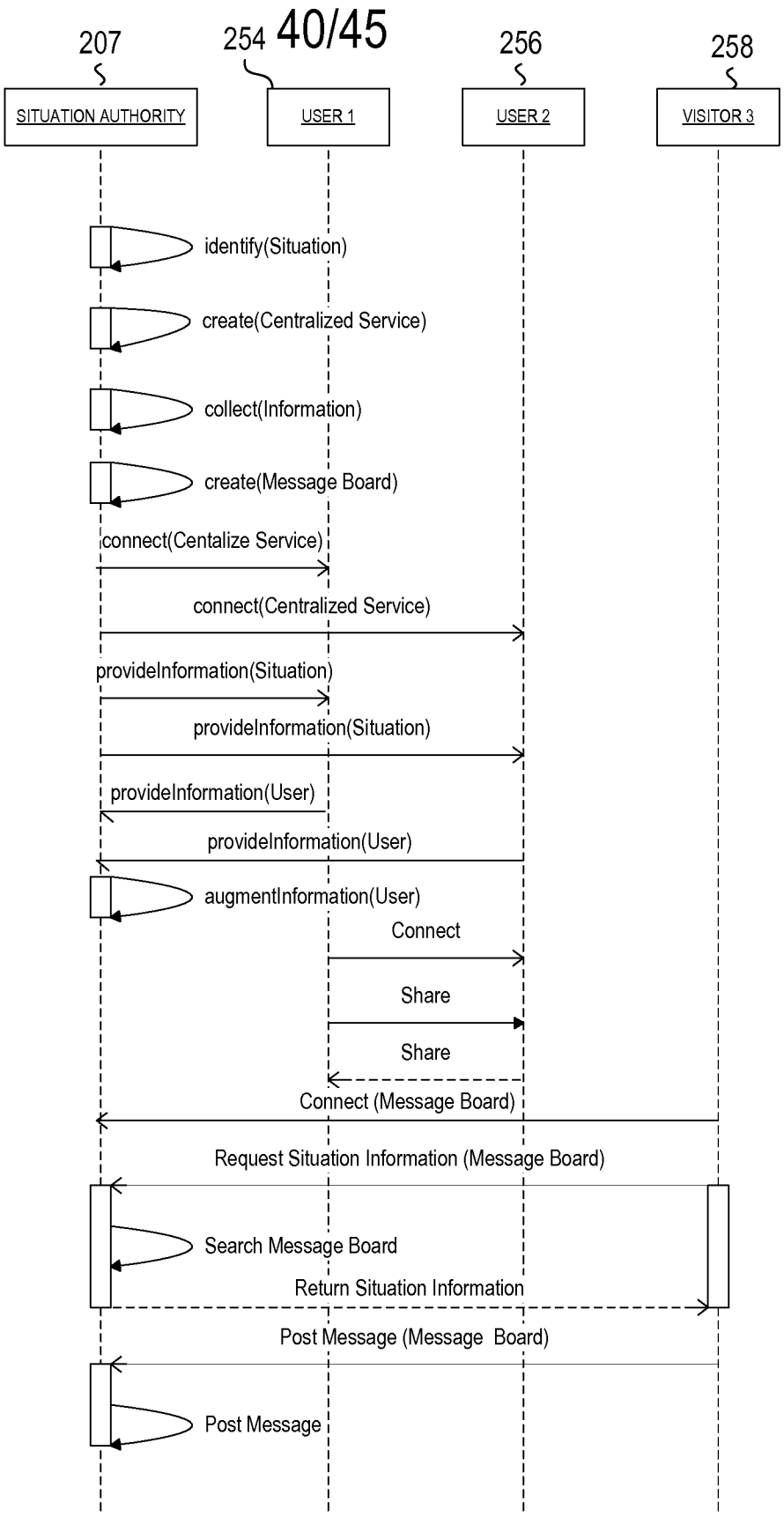

207
254
256
258
SITUATION AUTHORITY
USER 1
USER 2
VISITOR 3
identify(Situation)
create(Centralized Service)
collect(Information)
create(Message Board)
connect(Centalize Service)
connect(Centralized Service)
provideInformation(Situation)
provideInformation(Situation)
provideInformation(User)
provideInformation(User)
augmentInformation(User)
Connect
Share
Share
Connect (Message Board)
Request Situation Information (Message Board)
Search Message Board
Return Situation Information
Post Message (Message Board)
Post Message

Fig. 40

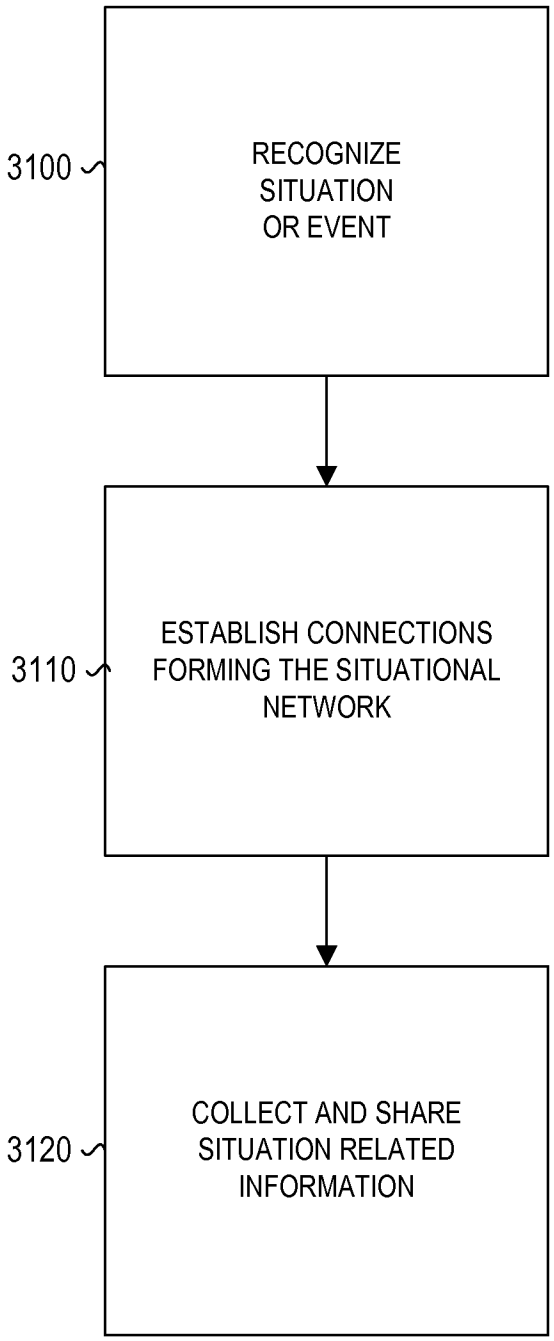

3100
RECOGNIZE SITUATION OR EVENT
3110
ESTABLISH CONNECTIONS FORMING THE SITUATIONAL NETWORK
3120
COLLECT AND SHARE SITUATION RELATED INFORMATION

Fig. 41

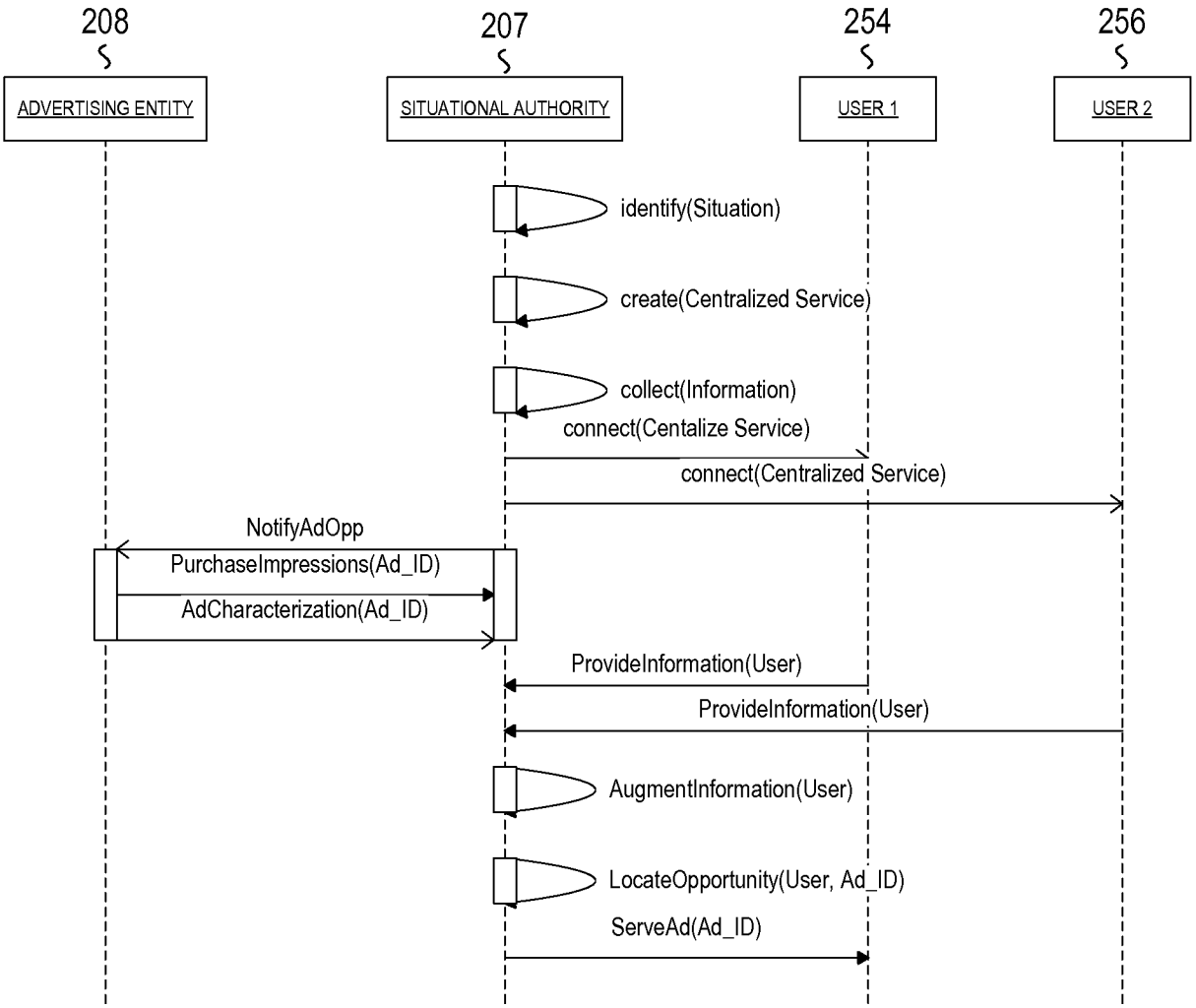

208
207
254
256
ADVERTISING ENTITY
SITUATIONAL AUTHORITY
USER 1
USER 2
identify(Situation)
create(Centralized Service)
collect(Information)
connect(Centalize Service)
connect(Centralized Service)
NotifyAdOpp
PurchaseImpressions(Ad_ID)
AdCharacterization(Ad_ID)
ProvideInformation(User)
ProvideInformation(User)
AugmentInformation(User)
LocateOpportunity(User, Ad_ID)
ServeAd(Ad_ID)

Fig. 42

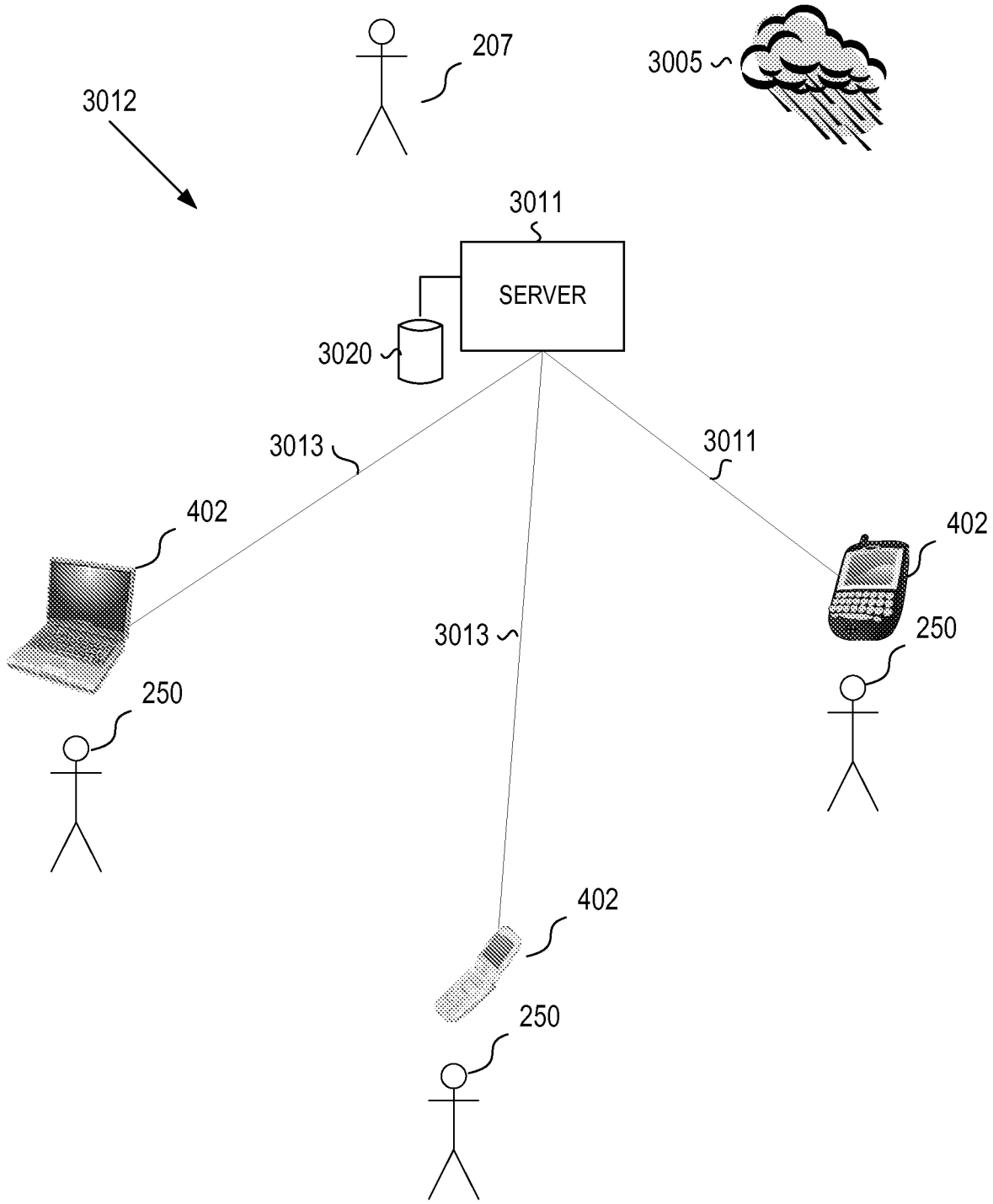

207
3005
3012
3011
SERVER
3020
3013
3011
402
402
3013
250
250
402
250

Fig. 43

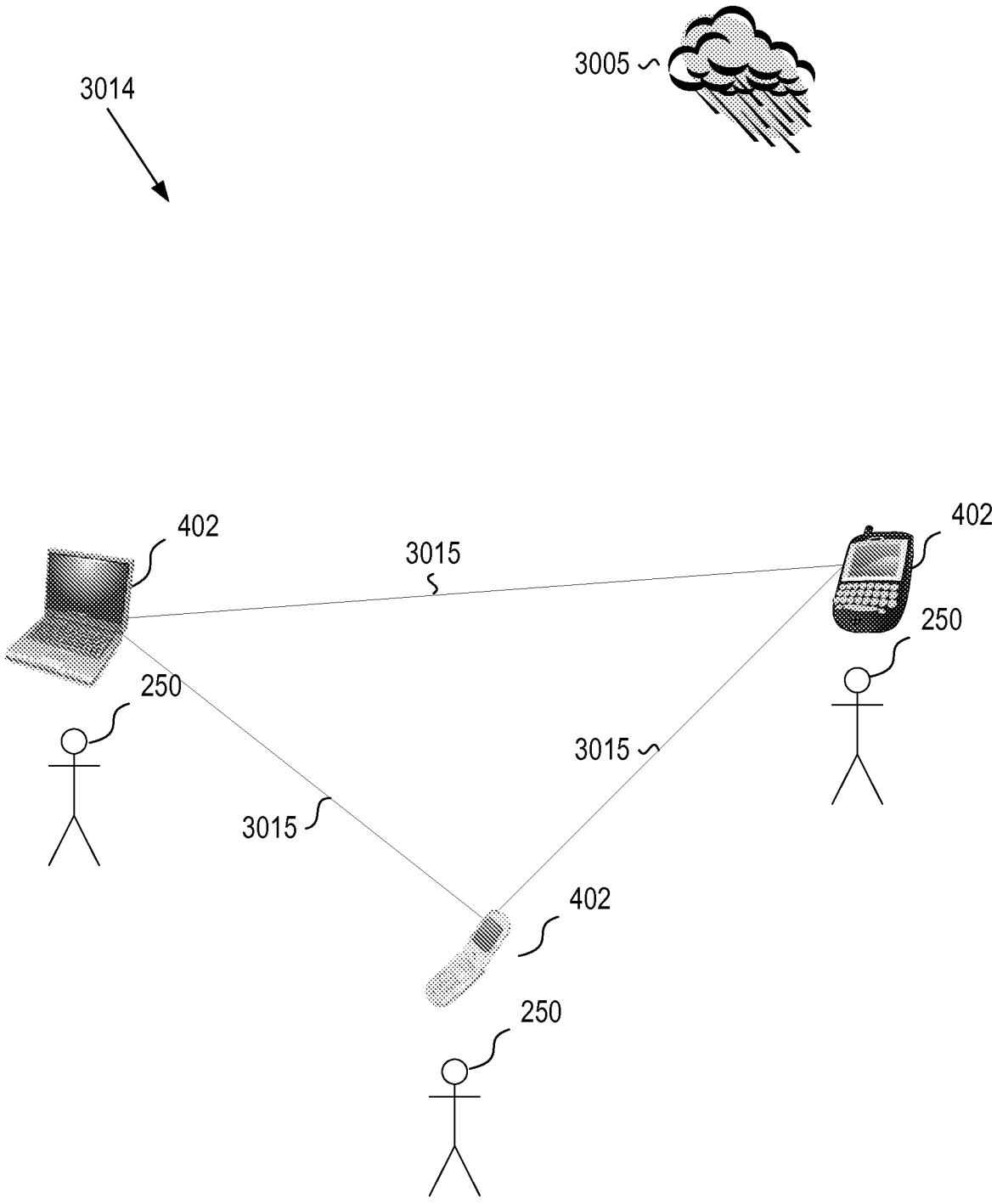


Fig. 44

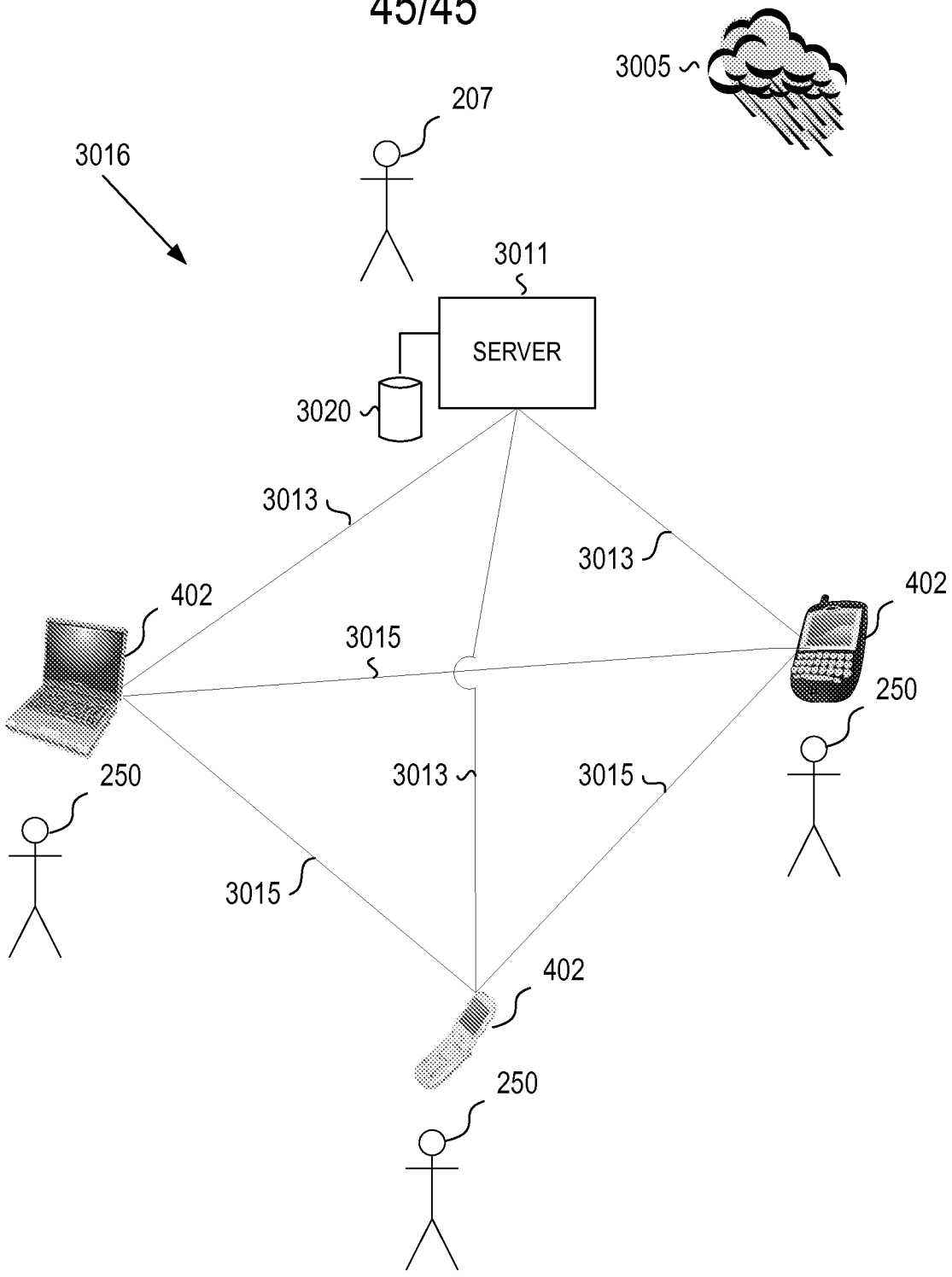

3005
207
3016
3011
SERVER
3020
3013
3013
402
402
3015
250
250
3013
3015
3015
402
250

Fig. 45

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Application Number: 14861340 Document Date: 09/22/2015

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
14/861,340	09/22/2015	2447	1740	RCL-005-16	16	3

CONFIRMATION NO. 9073

84212
The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

FILING RECEIPT

OC000000077841832

Date Mailed: 10/06/2015

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)

Thomas Cona, Athens, GA;
Patrick T. Igoe, Philadelphia, PA;
Leonid Kravets, Philadelphia, PA;
Edward A. Ehrlacher, Philadelphia, PA;

Applicant(s)

Resource Consortium Limited, Tortola, VIRGIN ISLANDS, BRITISH;

Power of Attorney: The patent practitioners associated with Customer Number 84212

Domestic Priority data as claimed by applicant

This application is a CON of 13/612,964 09/13/2012 PAT 9143535
which is a CON of 13/274,712 10/17/2011 PAT 8332454
which is a DIV of 11/924,711 10/26/2007 PAT 8069202
which claims benefit of 60/887,843 02/02/2007

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 - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 10/02/2015

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 14/861,340**

Projected Publication Date: 01/14/2016

Non-Publication Request: No

Early Publication Request: No

Title

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Preliminary Class

709

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

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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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: 14/861,340

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			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	16 minus 20 =	*			OR	x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x 420 =	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			TOTAL	1600

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.

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United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/861,340	09/22/2015	Thomas Cona	RCL-005-16

CONFIRMATION NO. 9073

84212
The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

INFORMAL NOTICE

OC000000077841833

Date Mailed: 10/06/2015

INFORMATIONAL NOTICE TO APPLICANT

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

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Thomas Cona
  Patrick T. Igoe
  Leonid Kravets
  Edward A. Ehrlacher

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ldvan/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/861,340	09/22/2015	Thomas Cona	RCL-005-16

CONFIRMATION NO. 9073

84212
The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

PUBLICATION NOTICE

Title:METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Publication No.US-2016-0014819-A1
Publication Date:01/14/2016

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/861,340	09/22/2015	Thomas Cona	RCL-005-16	9073

84212 7590 12/30/2016

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

EXAMINER	
TRAN, PHILIP B	

ART UNIT	PAPER NUMBER
2455	

NOTIFICATION DATE	DELIVERY MODE
12/30/2016	ELECTRONIC

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

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

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

uspto@thebellesgroup.com

Office Action Summary	Application No. 14/861,340	Applicant(s) CONA ET AL.	
	Examiner PHILIP B. TRAN	Art Unit 2455	AIA (First Inventor to File) Status No

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *9/22/2015*.

☐ 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) *1-16* 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) *1-16* 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 *9/22/2015*.

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

4) ☐ Other: _____.

DETAILED ACTION

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

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., ***In re Berg***, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); ***In re Goodman***, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); ***In re Longi***, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); ***In re Van Ornum***, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); ***In re Vogel***, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and ***In re Thorington***, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

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

3. Claims 1-16 of the instant application are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Pat. No. 9,143,535 (Cona et al) or over claims 1-25 of U.S. Pat. No. 8,045,455 (Agronow et al) in view of Asthana et al (US 2007/0276908 A1). Both Cona et al and Agronow et al teach accessing situation related information of plurality participant devices geographically proximate to the situation in the network, but do not teach a roll call list of participants. However, the concept of forming a roll call list of participants is known in the art as disclosed by Asthna [see Fig. 2 and Paragraphs 0020 & 0035]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teaching of Asthna into the teaching of Cona and Agronow in order to efficiently share the roll call information related to situation for individuals participating in the situational network. Although the conflicting claims are not identical, they are not patentably distinct from each other because modifications are obvious and they are claiming common subject matter.

4. A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS ACTION IS SET TO EXPIRE THREE MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION. FAILURE TO RESPOND WITHIN THE PERIOD FOR RESPONSE WILL CAUSE THE APPLICATION TO BECOME ABANDONED (35 U.S.C. § 133). EXTENSIONS OF TIME MAY BE OBTAINED UNDER THE PROVISIONS OF 37 CAR 1.136(A).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Tran whose telephone number is (571) 272-3991. The Group fax phone number is (571) 273-8300. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel L. Moise, can be reached on (571) 272-3865.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Philip B Tran/
Primary Examiner, Art Unit 2455
December 27, 2016

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BIB DATA SHEET

CONFIRMATION NO. 9073

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
14/861,340	09/22/2015 RULE	709	2455	RCL-005-16

APPLICANTS
Resource Consortium Limited, Tortola, VIRGIN ISLANDS, BRITISH;

INVENTORS
Thomas Cona, Athens, GA;
Patrick T. Igoe, Philadelphia, PA;
Leonid Kravets, Philadelphia, PA;
Edward A. Ehrlacher, Philadelphia, PA;

** **CONTINUING DATA** **************************YES,PBT
This application is a CON of 13/612,964 09/13/2012 PAT 9143535
which is a CON of 13/274,712 10/17/2011 PAT 8332454
which is a DIV of 11/924,711 10/26/2007 PAT 8069202
which claims benefit of 60/887,843 02/02/2007

** **FOREIGN APPLICATIONS** ************************** NO,PBT

** **IF REQUIRED, FOREIGN FILING LICENSE GRANTED** **
10/02/2015

		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
Foreign Priority claimed ❑ Yes ☑ No 35 USC 119(a-d) conditions met ❑ Yes ☑ No Verified and Acknowledged /PHILIP B TRAN/ Examiner's Signature	❑ Met after Allowance PBT Initials	GA	45	16	3

ADDRESS

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103
UNITED STATES

TITLE

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

FILING FEE RECEIVED		
1740	FEES: Authority has been given in Paper No.________ to charge/credit DEPOSIT ACCOUNT No.________ for following:	❑ All Fees ❑ 1.16 Fees (Filing) ❑ 1.17 Fees (Processing Ext. of time) ❑ 1.18 Fees (Issue) ❑ Other ________ ❑ Credit

BIB (Rev. 05/07).

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14861340	CONA ET AL.
	Examiner	Art Unit
	PHILIP B TRAN	2455

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

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

CLAIM		DATE								
Final	Original	12/27/2016								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								

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	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5835907		1998-11-10	NEWMAN	
	2	6091956		2000-07-18	HOLLENBERG	
	3	6112074		2000-08-29	PINDER	
	4	6295001		2001-09-25	BARBER	
	5	6424840		2002-07-23	FITCH et al.	
	6	6542750		2003-04-01	HENDREY et al.	
	7	6563910		2003-05-13	MENARD et al.	
	8	6600928		2003-07-29	AHYA et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

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

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	9	6785681		2004-08-31	KESKAR et al.	
	10	6788766		2004-09-07	LOGAN	
	11	6947754		2005-09-20	OGASAWARA	
	12	6970871		2005-11-29	TERRY	
	13	7027055		2006-04-11	ANDERSON et al.	
	14	7058385		2006-06-06	LAUPER	
	15	7091829		2006-08-15	LEE	
	16	7151939		2006-12-19	SHEYNBLAT	
	17	7177398		2007-02-13	MEER et al.	
	18	7181346		2007-02-20	KLEIST et al.	
	19	7194249		2007-03-20	PHILLIPS et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	20	7221928		2007-05-22	LAIRD et al.	
	21	7231220		2007-06-12	REDDY et al.	
	22	7233974		2007-06-19	KAWAHARA et al.	
	23	7239871		2007-07-03	SHAMP et al.	
	24	7242948		2007-07-10	FLEISCHER et al.	
	25	7245925		2007-07-17	ZELLNER	
	26	7254607		2007-08-07	HUBBARD et al.	
	27	7266558		2007-09-04	GRAY	
	28	7283045		2007-10-16	MANZ	
	29	7317705		2008-01-08	HANSON	
	30	7487112		2009-02-03	BARNES JR. et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	31	7523191		2009-04-21	THOMAS et al.	
	32	7532900		2009-05-12	WILSON et al.	
	33	7557689		2009-07-07	NABIL et al.	
	34	7672281		2010-03-02	HUMPHRIES et al.	
	35	7676233		2010-03-09	REHKOPF	
	36	7711475		2010-05-04	CONA et al.	
	37	7812717		2010-10-12	CONA et al.	
	38	7860519		2010-12-28	PORTMAN et al.	
	39	8000893		2011-06-16	CONA et al.	
	40	8036632		2011-10-11	CONA et al.	
	41	8045455		2011-10-25	AGRONOW et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	42	8230456		2012-07-24	JACOBY et al.	
	43	8358609		2013-01-22	CONA et al.	

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

U.S.PATENT APPLICATION PUBLICATIONS Remove

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20010009857		2001-07-26	VANITTINEN	
	2	20020107029		2002-08-08	CAUGHRAN et al.	
	3	20020161838		2002-10-31	PICKOVER et al.	
	4	20020177428		2002-11-28	MENARD et al.	
	5	20020181684		2002-12-05	LOGAN	
	6	20030148774		2003-08-07	NAGHIAN et al.	
	7	20030162557		2003-08-28	SHIDA	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

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

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	8	20030197615		2003-10-23	ROCHE et al.	
	9	20040023666		2004-02-05	MOON et al.	
	10	20040039807		2004-02-26	BOVEDA et al.	
	11	20050033511		2005-02-10	PECHATNIKOV et al.	
	12	20050096840		2005-05-05	SIMSKE	
	13	20050132016		2005-06-16	BOONE	
	14	20050135428		2005-06-23	HELLGREN	
	15	20060211404		2006-09-21	CROMP et al.	
	16	20060274743		2006-12-07	YEGIN et al.	
	17	20060287872		2006-12-21	SIMRELL	
	18	20070021981		2007-01-25	COX	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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First Named Inventor	Thomas Cona
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Examiner Name	
Attorney Docket Number	RCL-005-16

	19	20070032247		2007-02-08	SHAFFER et al.	
	20	20070161382		2007-07-12	MELINGER et al.	
	21	20070192116		2007-08-16	LOVITT	
	22	20070208837		2007-09-06	TIAN et al.	
	23	20070209054		2007-09-06	CASSANOVA	
	24	20070255785		2007-11-01	HAYASHI et al.	
	25	20080046511		2008-02-21	SKRENTA	
	26	20080086219		2008-04-10	EVANS et al.	
	27	20080139218		2008-06-12	DUAN	
	28	20090015467		2009-01-15	KWON et al.	
	29	20090024726		2009-01-22	JEON et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	30	20090030927		2009-01-29	CASES et al.	
	31	20090135758		2009-05-28	ALPER et al.	
	32	20090213001		2009-08-27	APPELMAN et al.	
	33	20090235305		2009-09-17	PUGEL	
	34	20090254944		2009-10-08	WATSON et al.	

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FOREIGN PATENT DOCUMENTS Remove

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

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NON-PATENT LITERATURE DOCUMENTS Remove

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	SYDELL, LAURA "What are you doing? Twitter Offers a Megaphone", May 21, 2007, http://www.npr.org/templates/story, 1 pg.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	2	Web Pages, Send Word Now; http://www.sendwordnow.com, July 19, 2007, 11 pgs.	☐
	3	SCHNEIDERMAN, Ben, PREECE, Jennifer; "911.gov", February 16, 2007, Science Magazine, Vol. 315, pg. 944, www.sciencemag.org, 1 pg.	☐
	4	"Notify!/Severe Weather Alerts" Web Pages; www.weather.com, July 12, 2007, 5 pgs.	☐
	5	BIEVER, Celeste, "My Space-style websites, perfect for disaster survival", NewScientistTech.com, February 15, 2007, 2 pgs.	☐
	6	JACKSON, Joab, "Disaster Prediction Social Networking Boosted by Geo-Data Feeds", http://news. nationalgeographic.com; October 19, 2006, 5 pgs.	☐
	7	KIM, Ryan, "Hey Baby, want a date?", www.sfgate.com, July 23, 2005, 3 pgs.	☐
	8	"Social Networking, What you need to know", INConnect Spring, 2007, www.ena.com, 8 pgs.	☐
	9	HALES, David, et al, "Friends for Free: Self Organizing Artificial Social Networks for Trust and Cooperation", University of Bologna, Italy, August 2005, 20 pgs.	☐
	10	Dane County Department of Emergency Management Warning System, October 23, 2006, www.countyofDane.com, 10 pgs.	☐
	11	"Share your world with ((Echo))MyPlace and CarbonCloud, July 15, 2007, www.thecarbonproject.com, 4 pgs.	☐
	12	HARRISON, Jeff, "Location Based Social Networking for Crisis Management", 2006, www.thecarbonproject.com, 24 pgs.	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	
Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	13	Press Release, "WeatherBug and SendWorkNow Launch Smart Notification, Weather Service to Deliver Nation's First Location Based, 2-way Mobile Weather Alerts and Notifications Based on Live WeatherBug Network Data", June 12, 2006, www.aws.com, 6 pgs.	☐
	14	PHILLIPS, Brenda D. Ph.D, et al, "Social Science Research Needs: A Focus on Vulnerable Populations, Forecasting and Warnings", February 2006, Hurricane Forecast Socio-economic Workshop, Pomona, CA, 11 pgs.	☐

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EXAMINER SIGNATURE

Examiner Signature	/PHILIP B TRAN/	Date Considered	12/27/2016

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

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

CERTIFICATION STATEMENT

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

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

OR

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

☐ See attached certification statement.

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

☒ None

SIGNATURE

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

Signature	/DMMorse/	Date (YYYY-MM-DD)	2015-09-22
Name/Print	David M. Morse	Registration Number	50505

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

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14861340	CONA ET AL.
	Examiner	Art Unit
	PHILIP B TRAN	2455

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	219, 223	12/27/2016	PBT

SEARCH NOTES		
Search Notes	Date	Examiner
East and NPL	12/27/2016	PBT

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed	PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT**
Application Number	14861340
Filing Date	22-Sep-2015
First Named Inventor	Thomas Cona
Attorney Docket Number	RCL-005-16
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
RESOURCE CONSORTIUM LIMITED	100%

The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)

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as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:
- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.

Applicant claims the following fee status:

○ Small Entity

○ Micro Entity

◉ Regular Undiscounted

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

THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES

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

◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Registration Number 61748

○ A sole inventor

○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application

○ A joint inventor; all of whom are signing this request

Signature	/Joseph Miller III/
Name	Joseph Miller III

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal

Application Number:	14861340
Filing Date:	22-Sep-2015
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Filer:	Joseph Miller III/Michele Greenberg
Attorney Docket Number:	RCL-005-16

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 14861340

Filing Date: 22-Sep-2015

Applicant/Patent under Reexamination: Cona

Electronic Terminal Disclaimer filed on February 7, 2017

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	28287738
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	84212
Filer:	Joseph Miller III/Michele Greenberg
Filer Authorized By:	Joseph Miller III
Attorney Docket Number:	RCL-005-16
Receipt Date:	07-FEB-2017
Filing Date:	22-SEP-2015
Time Stamp:	14:53:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$160
RAM confirmation Number	020817INTEFSW14531100
Deposit Account	032455
Authorized User	Michele Greenberg

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

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Electronic Terminal Disclaimer-Filed	eTerminal-Disclaimer.pdf	33578 de1e1493772dd10ea061c16d35febe75f4939e4b	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30471 078e365383c22bea42109d21b07074b51a142455	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64049		

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

In Re: Patent Application of Thomas Cona et al:

Conf. No.:	9073	:	Group Art Unit:	2455
Appln. No.:	14/861,340	:	Examiner:	Tran, Philip B.
Filing Date:	22 September 2015	:	Attorney Docket No.:	RCL-005-16

Title: Method and System for Using a Situational Network

Response to Non-Final Office Action

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

Commissioner:

This paper is being timely filed in response to the Office Action dated December 30, 2016. A Terminal Disclaimer is being submitted herewith.

Please amend the above-identified patent application, without prejudice, as follows:

A Listing of the Claims begins on page 2 of this paper.

Remarks begin on page 6 of this paper

Listing of the Claims:

This listing of claims will replace all prior versions of claims in the application.

1. (Original) A method of accessing situation related information, the method comprising:

receiving an indication of an occurrence of a situation;

forming a situational network related to the occurrence of the situation with a plurality of participant devices determined to be geographically proximate to the situation, each of the participant devices corresponding to a participant in the situational network;

presenting a roll call query to each of the plurality of participant devices soliciting a reply related to a status of the participant;

receiving a status response from one or more of the participants; and

aggregating the status responses from responsive participants into a roll call list.

2. (Original) The method of claim 1, further comprising:

receiving a request from a responsive participant to view the roll call list;

presenting the roll call list to the responsive participant; and

receiving from the participant an indication of the status of non-responsive participant.

3. (Original) The method of claim 1, wherein the situation includes at least one of an emergency event, a weather phenomenon, or a natural disaster.

4. (Original) The method of claim 1, wherein the situational network is formed by a situation authority.

5. (Original) The method of claim 1, further comprising:

establishing an electronic message board for providing access to the roll call information related to the situation for individuals not participating in the situational network.

6. (Original) The method of claim 1, wherein the status response includes a request for assistance and a location of the participant.

7. (Original) The method of claim 1, wherein non-responding devices are reported to an emergency management organization.

8. (Original) A method of providing situation related information to a situation authority via a situational network, the method comprising:

receiving, by a participant device, a roll call query soliciting a reply related to a status of a participant based on the participant being determined, by the situation authority, to be geographically proximate to the situation;

receiving, by the participant device, a selection of a status response from the participant; and

sending the status response to the central authority, wherein the status response is included in a roll call list.

9. (Original) The method of claim 8, further comprising:

requesting, by the participant device, the roll call list;

receiving, by the participant device, an indication of a status of non-responsive participant included on the roll call list; and

sending the status of the non-responsive participant to the situation authority.

10. (Original) The method of claim 8, wherein the situation includes at least one of an emergency event, a weather phenomenon, or a natural disaster.

11. (Original) The method of claim 8, wherein the status response includes a request for assistance and a location of the participant.

12. (Original) The method of claim 8, wherein the roll call list includes aggregated status responses from responsive participants of the situational network.

13. (Original) A system for accessing situation related information, the system comprising:

a central server, corresponding to a situation authority, configured to receive an indication of an occurrence of a situation, form a situational network related to the

occurrence of the situation with a plurality of participant devices determined to be geographically proximate to the situation, each of the participant devices corresponding to a participant in the situational network, present a roll call query to each of the plurality of participant devices soliciting a reply related to a status of the participant, receive a status response from one or more of the participants, and aggregate the status responses from responsive participants into a roll call list; and

a database corresponding to the central server for storing the responses and the roll call list.

14. (Original) The system of claim 13, wherein the central server is further configured to receive a request from a responsive participant to view the roll call list, present the roll call list to the responsive participant, and receive from the participant an indication of the status of non-responsive participant.

15. (Original) The system of claim 13, wherein the situation includes at least one of an emergency event, a weather phenomenon, or a natural disaster.

16. (Original) The system of claim 13, wherein the central server is further configured to establish an electronic message board for providing access to the roll call information related to the situation for individuals not participating in the situational network.

REMARKS

Presently, claims 1 – 16 are pending in the application.

A Terminal Disclaimer under 37 C.F.R §1.321(b) is being submitted herewith.

No amendments have been made to the claims, accordingly, no new matter has been added to the application.

Double Patenting Rejection

The Examiner has rejected claims 1 – 16 under the judicially created doctrine of nonstatutory obviousness-type double patenting. The Examiner asserts that claims 1 – 16 are unpatentable over claims 1 – 20 of U.S. Patent No. 9,143,535 to Cona, et al. (the "'535 patent") or over claims 1 – 25 of U.S. Patent No. 8,045,455 to Agronow et al (the "'455 patent") in view of US Patent Pub. No. 2007/0276908A1 to Asthana et al ("Asthana"). Applicants disagree and traverse.

Preliminarily, Applicants submit that the procedure of the rejection is improper, i.e., it is unclear if the Examiner rejected the claims in view of Cona and Agronow/Asthana or (ii) Cona/Asthana and Agronow/Asthana.

More specifically, Applicants disagree with the Examiner's proposed combination(s) with Asthana, and the characterization of Asthana.

The Examiner states:

> Claims 1-16 of the instant application are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-20 of U.S. Pat. No. 9, 143,535 (Cana et al) or over claims 1-25 of U.S. Pat. No. 8,045,455 (Agronow et al) in view of Asthana et al (US 2007/0276908A1). **Both Cana et al and Agronow et al teach accessing situation related information of plurality participant devices geographically proximate to the situation in the network, but do not teach a roll call list of participants.** However, the concept of forming a

> roll call list of participants is known in the art as disclosed by Asthna [see Fig. 2 and Paragraphs 0020 & 0035]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate the teaching of Asthna into the teaching of Cana and Agronow in order to efficiently share the roll call information related to situation for individuals participating in the situational network. Although the conflicting claims are not identical, they are not patentably distinct from each other because modifications are obvious and they are claiming common subject matter.
>
> Office Action of December 30, 2016, p. 3 (emphasis added).

Substantively, Applicants submit that Asthana does not teach or disclose "the concept of forming a roll call list of participants" or a "roll call" as claimed in this application. Moreover, Applicants submit that a proposed combination of the '535 patent (Cona) or the '455 patent (Agronow) with Asthana is improper, lacks rationale, and is based in hindsight.

Nevertheless, in the interest of expediting prosecution, Applicants have submitted herewith a Terminal Disclaimer under 37 C.F.R. §1.321(b), stating that the present application, the '535 patent, and the '455 patent are commonly owned and disclaiming the terminal part of the statutory term of any patent granted on the present application which would extend beyond the full statutory term of the patents granted on the '535 patent and the '455 patent. Reconsideration and withdrawal of the Examiner's double patenting rejection(s) of the claims are respectfully requested.

Conclusion

In view of the foregoing remarks, Applicants respectfully submit that the Examiner's rejections have been overcome, and that the application, including claims 1 – 16, is in condition for allowance. Reconsideration and withdrawal of the Examiner's rejection, and an early Notice of Allowance are respectfully requested.

If a fee is due for entry of this response, The Director – United States Patent and Trademark Office is authorized to charge Deposit Account 504766 the fees necessary for entry of this response.

Respectfully submitted,

THE BELLES GROUP, P.C.

Date: February 7, 2017

By: Joseph Miller, Esq.
Reg. No. 61,748

For: The Belles Group, P.C.
1608 Walnut Street
Suite 1302
Philadelphia, PA 19103
Office: 215-735-9302

Electronic Acknowledgement Receipt

EFS ID:	28288038
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	84212
Filer:	Joseph Miller III/Michele Greenberg
Filer Authorized By:	Joseph Miller III
Attorney Docket Number:	RCL-005-16
Receipt Date:	07-FEB-2017
Filing Date:	22-SEP-2015
Time Stamp:	15:02:28
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		RCL-005-16__Response_to_NFOA_dtd_12-30-2016.pdf	66824 9b5ca0c89646b2f9d9b7373caca98c7e79ba7a8f	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	5
	Applicant Arguments/Remarks Made in an Amendment	6	8
Warnings:			
Information:			
	Total Files Size (in bytes):	66824	

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

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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

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

PTO/SB/06 (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 14/861,340	Filing Date 09/22/2015	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

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

APPLICATION AS AMENDED – PART II

AMENDMENT **02/07/2017**

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 16	Minus	** 20	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $420 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

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

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

LIE
/SANDRA F. GARNETT/

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.

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

84212 7590 03/08/2017

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

EXAMINER
TRAN, PHILIP B

ART UNIT	PAPER NUMBER
2455	

DATE MAILED: 03/08/2017

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/861,340	09/22/2015	Thomas Cona	RCL-005-16	9073

TITLE OF INVENTION: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/08/2017

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

84212 7590 03/08/2017

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/861,340	09/22/2015	Thomas Cona	RCL-005-16	9073

TITLE OF INVENTION: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/08/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRAN, PHILIP B	2455	709-219000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. The following fee(s) are submitted:

❑ Issue Fee

❑ Publication Fee (No small entity discount permitted)

❑ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**

❑ A check is enclosed.

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

❑ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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.
14/861,340	09/22/2015	Thomas Cona	RCL-005-16	9073

84212 7590 03/08/2017

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

EXAMINER	
TRAN, PHILIP B	

ART UNIT	PAPER NUMBER
2455	

DATE MAILED: 03/08/2017

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.

Notice Requiring Inventor's Oath or Declaration	Application No. 14/861,340	Applicant(s) Thomas Cona	
	Examiner TRAN, PHILIP B	Art Unit 2455	

This notice is an attachment to the Notice of Allowability (PTOL-37), or the Notice of Allowability For A Design Application (PTOL-37D).

An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 executed by or with respect to each inventor has not yet been submitted.

An oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each inventor (for any inventor for which a compliant oath, declaration, or substitute statement has not yet been submitted) MUST be filed no later than the date on which the issue fee is paid. See 35 U.S.C. 115(f). Failure to timely comply will result in ABANDONMENT of this application.

A properly executed inventor's oath to declaration has not been received for the following inventor(s):

If applicant previously filed one or more oaths, declarations, or substitute statements, applicant may have received an informational notice regarding deficiencies therein.

The following deficiencies are noted:

INFORMAL ACTION PROBLEMS

- A properly executed inventor's oath or declaration has not been received for the following inventor(s): **Thomas Cona**, **Patrick T. Igoe**, **Leonid Kravets** , and **Edward A. Ehrlacher**.
  Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

Questions relating to this Notice should be directed to the Application Assistance Unit at 571-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 14/861,340	Applicant(s) CONA ET AL.	
	Examiner PHILIP B. TRAN	Art Unit 2455	AIA (First Inventor to File) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *2/7/2017*.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on_____.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are *1-16*. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:
   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
5. ☐ Examiner's Amendment/Comment
6. ☒ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/PHILIP B TRAN/
Primary Examiner, Art Unit 2455

ALLOWABLE SUBJECT MATTER

1. Terminal disclaimer has been filed and approved on 02/07/2017.

2. Claims 1-16 are allowable over the prior art of record.

3. The following is an examiner's statements of reason for allowance:

The examiner has found that the prior art of record does not appear to teach or suggest or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claims and subsequent dependent claims. The prior art of record fails to teach or suggest a system and a method of accessing situation related information comprising forming a situational network related to the occurrence of the situation with a plurality of participant devices determined to be geographically proximate to the situation wherein each of the participant devices corresponding to a participant in the situational network, presenting a roll call query to each of the plurality of participant devices soliciting a reply related to a status of the participant, receiving a status response from one or more of the participants, and aggregating the status responses from responsive participants into a roll call list.

4. 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."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip B. Tran whose telephone number is (571) 272-3991. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Philip B Tran/
Primary Examiner, Art Unit 2455
February 21, 2017

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14861340	CONA ET AL.
	Examiner	Art Unit
	PHILIP B TRAN	2455

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
709	219, 223	12/27/2016	PBT
Updated	Search	2/21/2017	PBT

SEARCH NOTES		
Search Notes	Date	Examiner
East and NPL	12/27/2016	PBT
Updated Search	2/21/2017	PBT

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner
709	219, 223	2/21/2017	PBT

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Year

Single Year | Range

1930 — 2017

From | To

Author

Affiliation

Publication Title

Publisher

1. **Non-recursive inorder traversal on constructed threaded K-D tree for efficient cloud based space partitioning**
   Sandip Roy; Rajesh Bose; Debabrata Sarddar
   2015 International Conference on Advances in Computer Engineering and Applications
   Year: 2015
   Pages: 665 - 668, DOI: 10.1109/ICACEA.2015.7164774
   IEEE Conference Publications
   ▸ Abstract (HTML) (385 Kb) ©

2. **The Mentat programming language and architecture**
   A. S. Grimshaw; J. W. S. Liu
   [1988] Proceedings. Workshop on the Future Trends of Distributed Computing Systems in the 1990s
   Year: 1988
   Pages: 426 - 437, DOI: 10.1109/FTDCS.1988.26725
   Cited by: Papers (3)
   IEEE Conference Publications
   ▸ Abstract (788 Kb) ©

3. **From learning to e-learning to m-learning to c-learning to ...?**
   J. Henno; H. Jaakkola; J. Mäkelä
   2014 37th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO)
   Year: 2014
   Pages: 616 - 622, DOI: 10.1109/MIPRO.2014.6859641
   Cited by: Papers (2)
   IEEE Conference Publications

Standards Dictionary Terms

address
operation
segment
backplane
block transfer
byte
compatibility
handshake
interface
module
protocol
system
transaction
transfer

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Standard Status

Standard Type

▸ Abstract (html) (234 Kb) ©

Practical results and opportunities of evaluation of transformer diagnostic by an expert system
Csaba Vörös; Bálint Németh; István Berta
2013 4th International Youth Conference on Energy (IYCE)
Year: 2013
Pages: 1 - 5, DOI: 10.1109/IYCE.2013.6604150
Cited by: Papers (1)
IEEE Conference Publications

▸ Abstract (html) (645 Kb) ©

MP-Collaborator: A Mobile Collaboration Tool in Pervasive Environment
Bruno M. C. Silva; Paulo A. C. S. Neves; Mieso K. Denko; Joel J. P. C. Rodrigues
2009 IEEE International Conference on Wireless and Mobile Computing, Networking and Communications
Year: 2009
Pages: 344 - 349, DOI: 10.1109/WiMob.2009.65
Cited by: Papers (2)
IEEE Conference Publications

▸ Abstract (html) (362 Kb) ©

Automatic Energy Status Controlling with Dynamic Voltage Scaling in Power-Aware High Performance Computing Cluster
Yuansheng Cheng; Yu Zeng
2011 12th International Conference on Parallel and Distributed Computing, Applications and Technologies
Year: 2011
Pages: 412 - 416, DOI: 10.1109/PDCAT.2011.24
Cited by: Papers (5)
IEEE Conference Publications

▸ Abstract (html) (260 Kb) ©

ThemExplorer: Finding and browsing geo-referenced images
Adrian Popescu; Pierre-Alain Moellic; Ioannis Kanellos
2008 International Workshop on Content-Based Multimedia Indexing
Year: 2008
Pages: 576 - 583, DOI: 10.1109/CBMI.2008.4564999
Cited by: Papers (2)
IEEE Conference Publications

▸ Abstract (html) (559 Kb) ©

Managing long term communications: conversation and contact management
S. Whittaker; Q. Jones; L. Terveen

Proceedings of the 35th Annual Hawaii International Conference on System Sciences
Year: 2002
Pages: 1070 - 1079, DOI: 10.1109/HICSS.2002.994063
Cited by: Papers (3) | Patents (4)
IEEE Conference Publications

Abstract (html) (567 Kb)

StreamWeb: Real-Time Web Monitoring with Stream Computing
Toyotaro Suzumura; Tomoaki Oiki
2011 IEEE International Conference on Web Services
Year: 2011
Pages: 620 - 627, DOI: 10.1109/ICWS.2011.16
Cited by: Papers (3) | Patents (1)
IEEE Conference Publications

Abstract (html) (1157 Kb)

A mobile application for Women's Safety: WoSApp
Dhruv Chand; Sunil Nayak; Karthik S. Bhat; Shivani Parikh; Yuvraj Singh; Amita Ajith Kamath
TENCON 2015 - 2015 IEEE Region 10 Conference
Year: 2015
Pages: 1 - 5, DOI: 10.1109/TENCON.2015.7373171
Cited by: Papers (1)
IEEE Conference Publications

Abstract (html) (1603 Kb)

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EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	77	("5835907" | "6091956" | "6112074" | "6295001" | "6424840" | "6542750" | "6563910" | "6600928" | "6785681" | "6788766" | "6947754" | "6970871" | "7027055" | "7058385" | "7091829" | "7151939" | "7177398" | "7181346" | "7194249" | "7221928" | "7231220" | "7233974" | "7239871" | "7242948" | "7245925" | "7254607" | "7266558" | "7283045" | "7317705" | "7487112" | "7523191" | "7532900" | "7557689" | "7672281" | "7676233" | "7711475" | "7812717" | "7860519" | "8000893" | "8036632" | "8045455" | "8230456" | "8358609" | "20010009857" | "20020107029" | "20020161838" | "20020177428" | "20020181684" | "20030148774" | "20030162557" | "20030197615" | "20040023666" | "20040039807" | "20050033511" | "20050096840" | "20050132016" | "20050135428" | "20060211404" | "20060274743" | "20060287872" | "20070021981" | "20070032247" | "20070161382" | "20070192116" | "20070208837" | "20070209054" | "20070255785" | "20080046511" | "20080086219" | "20080139218" | "20090015467" | "20090024726" | "20090030927" | "20090135758" | "20090213001" | "20090235305" | "20090254944").PN.	US-PGPUB; USPAT	OR	ON	2017/02/21 12:38
L2	1	"8732241".pn.	US-PGPUB; USPAT	OR	ON	2017/02/21 12:38
L3	0	(geographical near2 proximat$7) same (participants users clients) same (roll near1 call near1 list)	US-PGPUB; USPAT	OR	ON	2017/02/21 12:43
L4	9	(geographical near2 proximat$7) same (participants users clients) same (list)	US-PGPUB; USPAT	OR	ON	2017/02/21 12:43
L5	7	(geographical near2 proximat$7) same (participants users clients) same (status)	US-PGPUB; USPAT	OR	ON	2017/02/21 12:44
L6	10097	(proximity proximat$7) same (participants users clients) same (status)	US-PGPUB; USPAT	OR	ON	2017/02/21 12:46
L7	10	(proximity proximat$7) same (participants users clients) same (status) same (call near2 list)	US-PGPUB; USPAT	OR	ON	2017/02/21 12:48
L8	355	(proximity proximat$7) same (participants	US-	OR	ON	2017/02/21

		users clients) same (status) same (emergency weather)	PGPUB; USPAT			12:52
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L14	89	(patrick near1 igoe).in.	US-PGPUB; USPAT	OR	ON	2017/02/21 13:13
L15	23	(leonid near1 kravets).in.	US-PGPUB; USPAT	OR	ON	2017/02/21 13:13
L16	26	(edward near1 ehrlacher).in.	US-PGPUB; USPAT	OR	ON	2017/02/21 13:14
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L26	6	16 and (@ad<"20070202" @rlad<"20070202")	US-PGPUB; USPAT	OR	ON	2017/02/21 13:18

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Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	14861340	CONA ET AL.
	Examiner	**Art Unit**
	PHILIP B TRAN	2455

CPC						
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H04W		76	/	007	F	2013-01-01
G01C		21	/	3415	I	2013-01-01
G01C		21	/	3461	I	2013-01-01
G01C		21	/	3697	I	2013-01-01
G08G		1	/	096716	I	2013-01-01
G08G		1	/	096741	I	2013-01-01
G08G		1	/	096791	I	2013-01-01
G08G		1	/	205	A	2013-01-01
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(Assistant Examiner)	(Date)	16	
/PHILIP B TRAN/ Primary Examiner.Art Unit 2455	2/21/2017	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	45

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
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US ORIGINAL CLASSIFICATION		INTERNATIONAL CLASSIFICATION												
CLASS	SUBCLASS	CLAIMED					NON-CLAIMED							
709	219	G	0	6	F	15 / 16 (2006.01.01)								
CROSS REFERENCE(S)														
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)													
709	223													

NONE		**Total Claims Allowed:**	
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(Primary Examiner)	(Date)	1	45

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	14861340	CONA ET AL.
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16	16														

NONE (Assistant Examiner)	(Date)	**Total Claims Allowed:** 16	
/PHILIP B TRAN/ Primary Examiner.Art Unit 2455 (Primary Examiner)	2/21/2017 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 45

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Result 1 – 2 of 2

Sort by: relevance

1 Estimating self-assessed personality from body movements and proximity in crowded mingling scenarios

Laura Cabrera-Quiros, Ekin Gedik, Hayley Hung

October 2016 ICMI 2016: Proceedings of the 18th ACM International Conference on Multimodal Interaction

Publisher: ACM

Bibliometrics: Citation Count: 0
Downloads (6 Weeks): 4, Downloads (12 Months): 26, Downloads (Overall): 26

Full text available: PDF

This paper focuses on the automatic classification of self-assessed personality traits from the HEXACO inventory during crowded mingle scenarios. We exploit acceleration and proximity data from a wearable device hung around the neck. Unlike most state-of-the-art studies, addressing personality estimation during mingle scenarios provides a challenging social context as people ...

Keywords: proximity, speaking turn, personality, Wearable acceleration

[result highlights]

2 Lines vs. no lines: do lines connecting related information improve performance on ambulance dispatch tasks?

Jared Hayes, Samuel Moyle, Antoni Moore, B. L. William Wong

July 2003 CHINZ '03: Proceedings of the 4th Annual Conference of the ACM Special Interest Group on Computer-Human Interaction

Publisher: ACM

Bibliometrics: Citation Count: 0
Downloads (6 Weeks): 0, Downloads (12 Months): 3, Downloads (Overall): 13

Full text available: PDF

Display design can play a vital role in the performance of operators controlling complex systems. This paper presents a follow-up study to an earlier one which found that when completing an ambulance dispatch task, participants using a display that had good task-to-display compatibility performed better on more complex dispatch tasks ...

Keywords: proximity compatibility principle, display design, task-to-display compatibility, ambulance dispatch management, critical decision method

[result highlights]

Result 1 – 2 of 2

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor: Thomas Cona	Examiner: Philip B. Tran
Serial No.: 14/861,340	Art Unit: 2455
Filing Date: September 22, 2015	Confirmation No.: 9073
For: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	Attorney Docket No.: RCL-005-16

RESPONSE TO INFORMATIONAL NOTICE TO APPLICANT

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

Commissioner:

Applicants hereby submit this Response to the Informational Notice to Applicant dated October 6, 2015.

Remarks begin on page 2 of this Paper.

REMARKS

In response to the Informational Notice to Applicant dated October 6, 2015, Applicants hereby submit the following documents from priority application Serial No. 11/924,711 to establish that the present application is properly accorded Rule 1.47(a) (pre-AIA) status with respect to non-signing inventor Leonid Kravets, thereby rendering moot the requirement in the Informational Notice to Applicant for a signed Declaration from the non-signing inventor:

1. Petition To Permit Acceptance Of A Patent Application Where An Inventor Has Refused To Sign The Declaration Under 37 C.F.R. 1.47 ("Petition");

2. Affidavit of Leonid Kravets ("Kravets Affidavit"); and

3. Decision According Status Under 37 C.F.R. 1.47(a) ("Petition Decision")

The claim of priority for the present application is reflected in the Filing Receipt mailed October 6, 2015, which indicates that priority is claimed as a continuation application to U.S. Patent Application No. 13/612,964, filed September 13, 2012, which claims priority as a continuation application to U.S. Patent Application No. 13/274,712, filed October 17, 2011, which claims priority as a divisional application to U.S. Patent Application No. 11/924,711, filed October 26, 2007, which claims the benefit of U.S. Provisional Patent Application No. 60/887,843, filed February 2, 2007.

According to the Filing Receipt, priority of the present application has been properly established to U.S. Patent Application Serial No. 11/924,711 ("the '711 Application"). Each of the papers listed above are of record in the '711 Application. The Petition and the Kravets Declaration were filed by applicants in the '711 Application on February 11, 2008, in order to address the issue of inventor Leonid Kravets refusing to sign a Declaration for the '711 Application, and the Petition Decision was mailed June 4, 2008. By the Petition Decision, the '711 Application was "accorded Rule 1.47(a) status" with respect to "the petition under 37 CFR 1.47(a), filed February 11, 2008". Thus, in the '711 Application, examination of the application properly proceeded under 37 C.F.R. § 1.47(a) in the absence of non-signing inventor Leonid Kravets.

In the present application, Applicants submit the Petition, the Kravets Affidavit, and the Petition Decision to similarly establish that this application, which claims priority to the '711 Application, is also properly accorded Rule 1.47(a) (pre-AIA) status. In view

of these documents, Applicants submit that the present application should properly proceed in the absence of a signed Declaration from Leonid Kravets. The requirement for a signed Declaration from Leonid Kravets in the Informational Notice to Applicant, dated October 6, 2015, should therefore be withdrawn, and the application allowed to proceed.

Should any outstanding questions or issues remain, the Office is invited to contact Applicants' attorney at the telephone number below.

Respectfully submitted,

THE BELLES GROUP, P.C.

Date: May 2, 2017

By: Brian L. Belles, Esq.
Reg. No. 51,322
The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadelphia, PA 19103
Office: 215-735-9302

MAIL STOP MISSING PARTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona

Conf. No.:	1749	:	Group Art Unit: 2616
Appln. No.:	11/924,711	:	Examiner: TBD
Filing Date:	26 OCTOBER 2007	:	Attorney Docket No.: RCL-005-2

Title: Creating a Projection of a Situational Network

PETITION TO PERMIT ACCEPTANCE OF A PATENT APPLICATION WHERE AN INVENTOR HAS REFUSED TO SIGN THE DECLARATION UNDER 37 C.F.R. 1.47

This paper is a Petition under 37 C.F.R. §1.47(a) to accept the above-identified patent application ("the Application").

Statement of Facts

1. The subject matter of the Application was jointly invented by Thomas Cona (Cona), Patrick T. Igoe (Igoe), Leonid Kravets (Kravets) and Edward A. Ehrlacher (Ehrlacher).

2. At the time of the invention, Igoe, Kravets and Ehrlacher were employees of Technology, Patents and Licensing, Inc. ("TPL"), and were under a duty to assign all rights, title and interest in the subject matter of the Application to TPL.

3. Kravets has been continuously employed by TPL from at least conception of the invention until present.

4. Cona, Igoe, Kravets and Ehrlacher were presented with application papers, including the specification, claims and drawings, prior to filing of the application and again prior to the filing of this Petition.

5. Pursuant to MPEP 409.03(d), the undersigned sent a complete copy of the application papers, as well as an Oath/Declaration and Power of Attorney form, to Kravets at his presently known address, set forth below, via U.S. Postal Service, certified mail on February 4, 2008.

6. The undersigned sent a complete copy of the application papers to Kravets via e-mail on February 4, 2008.

7. Kravets has refused to join in execution of the Application, by expressly refusing to sign the Oath/Declaration.

8. The reasons for Kravets' refusal are set forth in the Declaration of Kravets, dated February 8, 2008, attached hereto as Exhibit A. Kravets also orally communicated to the undersigned his refusal to join in the Application.

9. The Oath/Declaration and Power of Attorney was executed by Cona on November 26, 2007, Igoe on January 31, 2008 and Ehrlacher on February 8, 2008, on behalf of themselves and Kravets. Pursuant to MPEP 409.03(a), the signature block of the nonsigning inventor, Kravets, has been left blank.

In view of the foregoing, Thomas Cona, Patrick T. Igoe and Edward A. Ehrlacher, joint inventors of the subject matter of the Application, hereby petition for acceptance of the application on their behalf and that of the non-signing inventor, Kravets.

This petition filed under 37 C.F.R. §1.47(a), includes:

1. The Oath/Declaration and Power of Attorney, dated November 26, 2007, January 31, 2008 and February 8, 2008, executed by Cona, Igoe and Ehrlacher on behalf of themselves and the nonsigning inventor, Kravets;
2. The Declaration of Leonid Kravets, dated February 8, 2008, attached as Exhibit A, stating that he was presented with the application papers and that he expressly refused to sign;
3. The last known address of the non-signing inventor, Leonid Kravets, is: 2001 Hamilton Avenue, Unit 727, Philadelphia, PA 19130; and
4. The Petition fee as set forth in C.F.R. 1.17(g) in the amount of **$200.00**.

☒ The Commissioner is hereby authorized to charge Deposit Account No. **503061** as noted below. A duplicate copy is enclosed.

☒ Petition Fee in the amount of $200.00.

☒ Any deficiencies or overpayments in the above-calculated fee.

Respectfully submitted,

Date: 2/11/08 By: _____

Andrew W. Spicer
Registration No. 57,420
Technology, Patents & Licensing, Inc.
2003 South Easton Road, Suite 208
Doylestown, PA 18901
267-880-1720

Customer No.: 27833

EXHIBIT A

Mail Stop Missing Parts

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona

Conf. No.:	1749	:	Group Art Unit: 2616
Appln. No.:	11/924,711	:	Examiner: TBD
Filing Date:	26 OCTOBER 2007	:	Attorney Docket No.: RCL-005-2

Title: Creating a Projection of a Situational Network

DECLARATION OF LEONID KRAVETS

I, Leonid Kravets, hereby declare that:

1. I, Leonid Kravets, am a citizen of the United States and reside at 2001 Hamilton Avenue, Unit 727, Philadelphia, PA 19130.

2. I am a joint inventor with Thomas Cona of Athens, GA, Patrick T. Igoe of Philadelphia, PA, and Edward A. Ehrlacher of Philadelphia, PA of the subject matter of U.S. Patent Application No. 11/924,711 entitled *Creating a Projection of a Situational Network*, filed October 26, 2007 ("the Application").

3. The Application claims priority to U.S. Provisional Application No. 60/887,843, filed February 2, 2007.

4. I was employed as a Patent Examiner at the U.S. Patent and Trademark Office ("PTO") from June 27, 2005, until May 12, 2006.

5. I have been continuously employed by Technology, Patents & Licensing, Inc. ("TPL"), of Doylestown, PA, since May 18, 2006, until present.

6. I was an employee of TPL at the time of conception of the subject matter of the Application and was an employee of TPL at the time of filing the Application.

7. Pursuant to my employment agreement with TPL, I have a duty to assign all of my rights, title and interest in the subject matter of the Application to TPL.

8. I received, via U.S. certified mail on February 5, 2008, a copy of the Application, including a copy of the specification, claims and drawings, as

well as an Oath/Declaration and Power of Attorney form. I was also presented with such application papers by representatives of TPL prior to filing of the application.

9. Upon receipt of the application papers for the Application, I expressly refused to sign the Oath/Declaration. The reason(s) for this refusal include my understanding that, I am not permitted to and/or am incapable of executing an application for a United States patent that claims priority to a date earlier than one year after termination of my employment with the PTO.

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

Executed this 8th day of February, 2008.

BY: L Kravets

LEONID KRAVETS

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OFFICE OF PETITIONS

In re Application of :
Cona et al. :
Application No. 11/924,711 :
Filed: October 26, 2007 :
Attorney Docket No. RCL-005-2 :
For: Creating a Projection of a Situational Network :

Decision According Status Under 37 CFR 1.47(a)

This is a decision on the petition under 37 CFR 1.47(a), filed February 11, 2008.

The petition is **granted**.

The above-identified application and papers have been reviewed and found in compliance with 37 CFR 1.47(a). This application is hereby accorded Rule 1.47(a) status.

As provided in Rule 1.47(c), this Office will forward notice of this application's filing to the non-signing inventor at the address given in the petition. Notice of the filing of this application will also be published in the Official Gazette.

The Office of Patent Application Processing will be informed of the instant decision so that it may continue to prepare the application for examination.

Telephone inquiries regarding this communication should be directed to Petitions Attorney Steven Brantley at (571) 272-3203.

Charles Steven Brantley
Senior Petitions Attorney
Office of Petitions

Electronic Acknowledgement Receipt

EFS ID:	29094432
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	84212
Filer:	Brian L. Belles/Robin Diesel
Filer Authorized By:	Brian L. Belles
Attorney Docket Number:	RCL-005-16
Receipt Date:	02-MAY-2017
Filing Date:	22-SEP-2015
Time Stamp:	16:08:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	Declaration_Ehrlacher_Executed.pdf	1412589 977f53dde8aefbc2b2da1848948e60502ba9e71d	no	2

Warnings:

Information:					
2	Oath or Declaration filed	Declaration_Igoe_Executed.pdf	68700 c2ea8e55a4f00171a29abc4c2ddf713142fd844a	no	1
Warnings:					
Information:					
3	Oath or Declaration filed	Substitute_Statement_Cona_Executed.pdf	821563 9776a98c3c0b5d2405ce20a4562043988a0a60fe	no	2
Warnings:					
Information:					
4	Miscellaneous Incoming Letter	Response_to_Informational_Notice_to_Applicant.pdf	787769 51ad9389a7e06f5b8441732bdb4ca292bf3ee6f8	no	3
Warnings:					
Information:					
5	Miscellaneous Incoming Letter	Petition_RCL_005_16.pdf	193743 9571b387cd5a9b4fe3cd83b1d4a69f820bd6511d	no	3
Warnings:					
Information:					
6	Miscellaneous Incoming Letter	Affidavit_RCL_005_16.pdf	147979 02b46fdb8930c7ce24a5689e1c24947b8f7a3d85	no	2
Warnings:					
Information:					
7	Miscellaneous Incoming Letter	Decision_Granting_Petition.pdf	88363 3e391f04a5cd393918fd6935c11a35a7d3c112fd	no	1
Warnings:					
Information:					
			Total Files Size (in bytes):	3520706	

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/01 (06-12)
Approved for use through 01/31/2014. 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.

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

Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/861,340 filed on September 22, 2015.

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

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

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

WARNING:

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

LEGAL NAME OF INVENTOR

Inventor: Edward A. Ehrlacher Date (Optional): 5-9-2016

Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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.

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.

PTO/AIA/01 (06-12)
Approved for use through 01/31/2014. 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.

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

Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 14/861,340 filed on September 22, 2015.

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

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

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

WARNING:

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LEGAL NAME OF INVENTOR

Inventor: Patrick T. Igoe Date (Optional): May 11, 2016

Signature: PTI

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute 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: Oath
Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

This statement is directed to:

☐ The attached application,

OR

☒ United States application or PCT international application number 14/861,340 filed on September 22, 2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*E.g.*, Given Name (first and middle (if any)) and Family Name or Surname)

Thomas Cona

Residence (except for a deceased or legally incapacitated inventor):

City	State	Country
Athens	GA	US

Mailing Address (except for a deceased or legally incapacitated inventor):

700 Riverview Road

City	State	Zip	Country
Athens	GA	30606	US

I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.

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

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

Relationship to the inventor to whom this substitute statement applies:

- ☐ Legal Representative (for deceased or legally incapacitated inventor only),
- ☒ Assignee,
- ☐ Person to whom the inventor is under an obligation to assign,
- ☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or
- ☐ Joint Inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/SB/AIA/02 (07-13)
Approved for use through 01/31/2014. 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.

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☐ Inventor is under legal incapacity,
- ☒ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

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

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Gordon R. Herring

Date (Optional): 9/26/17

Signature: Gordon R Herring

APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: Resource Consortium Limited

Title of Person Executing This Substitute Statement: Vice President

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City	State	Country
Greenville	SC	US

Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

Craigmuir Chambers
P.O. Box 71, Road Town

City	State	Zip	Country
Tortola			VG

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

84212 7590 03/08/2017
The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
14/861,340	09/22/2015	Thomas Cona	RCL-005-16	9073

TITLE OF INVENTION: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$960	$0	$0	$960	06/08/2017

EXAMINER	ART UNIT	CLASS-SUBCLASS
TRAN, PHILIP B	2455	709-219000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 The Belles Group, P.C.
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Resource Consortium Limited

(B) RESIDENCE: (CITY and STATE OR COUNTRY): British Virgin Islands

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:
- ☒ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): **(Please first reapply any previously paid issue fee shown above)**
- ☐ A check is enclosed.
- ☒ Payment by credit card.
- ☒ The director is hereby authorized to charge the required fee(s), any deficiency, or credits any overpayment, to Deposit Account Number 504766 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ Applicant certifying micro entity status. See 37 CFR 1.29
  NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
- ☐ Applicant asserting small entity status. See 37 CFR 1.27
  NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
- ☐ Applicant changing to regular undiscounted fee status.
  NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Joseph Miller/ Date June 6, 2017

Typed or printed name Joseph Miller Registration No. 61748

PTOL-85 Part B (10-13) Approved for use through 10/31/2013. OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Electronic Patent Application Fee Transmittal

Application Number:	14861340
Filing Date:	22-Sep-2015
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Filer:	Brian L. Belles/Robin Diesel
Attorney Docket Number:	RCL-005-16

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	960	960

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**960**

Electronic Acknowledgement Receipt

EFS ID:	29409842
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	84212
Filer:	Brian L. Belles/Robin Diesel
Filer Authorized By:	Brian L. Belles
Attorney Docket Number:	RCL-005-16
Receipt Date:	06-JUN-2017
Filing Date:	22-SEP-2015
Time Stamp:	14:44:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$960
RAM confirmation Number	060717INTEFSW14453900
Deposit Account	504766
Authorized User	Brian Belles

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

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.pdf	1866869 376218bf390dbef9bdac0618f552aa79b42d3d77	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30809 94c54386ce04046798c9b5b2e1dcf0c3546be8c8	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1897678		

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.

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

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	31	7523191		2009-04-21	THOMAS et al.	
	32	7532900		2009-05-12	WILSON et al.	
Change(s) applied to document, /N.M./ 3/17/2017	33	7557689		2009-07-07	~~NABIL et al.~~ Seddigh et al.	
	34	7672281		2010-03-02	HUMPHRIES et al.	
	35	7676233		2010-03-09	REHKOPF	
	36	7711475		2010-05-04	CONA et al.	
	37	7812717		2010-10-12	CONA et al.	
	38	7860519		2010-12-28	PORTMAN et al.	
	39	8000893		2011-06-16	CONA et al.	
	40	8036632		2011-10-11	CONA et al.	
	41	8045455		2011-10-25	AGRONOW et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	RCL-005-16

	9	6785681		2004-08-31	KESKAR et al.	
	10	6788766		2004-09-07	LOGAN	
	11	6947754		2005-09-20	OGASAWARA	
Change(s) applied to document, /N.M./ 3/17/2017	12	6970871		2005-11-29	~~TERRY~~ Rayburn	
	13	7027055		2006-04-11	ANDERSON et al.	
	14	7058385		2006-06-06	LAUPER	
	15	7091829		2006-08-15	LEE	
	16	7151939		2006-12-19	SHEYNBLAT	
	17	7177398		2007-02-13	MEER et al.	
	18	7181346		2007-02-20	KLEIST et al.	
	19	7194249		2007-03-20	PHILLIPS et al.	

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /P.B.T/

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.
14/861,340	09/22/2015	Thomas Cona	RCL-005-16	9073

7590 07/31/2017

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

EXAMINER	
TRAN, PHILIP B	
ART UNIT	PAPER NUMBER
2455	
NOTIFICATION DATE	DELIVERY MODE
07/31/2017	ELECTRONIC

Notice of Abandonment

This application is abandoned in view of:

1. ☐ The applicant's failure to timely file a proper reply to the Office letter mailed on _____.
   (a) ☐ A reply was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the period for reply (including a total extension of ____ month(s)) which expired on _____.
   (b) ☐ No reply has been received.
2. ☐ Applicant's failure to timely pay the required issue fee and publication fee, if applicable, within the statutory period of three months from the mailing date of the Notice of Allowance (PTOL-85).
   (a) ☐ The issue fee and publication fee, if applicable, was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the expiration of the statutory period for payment of the issue fee (and publication fee) set in the Notice of Allowance (PTOL-85).
   (b) ☐ The submitted fee of $_____ is insufficient. A balance of $_____ is due.
   The issue fee required by 37 CFR 1.18 is $_____.
   The publication fee, if required by 37 CFR 1.18(d), is $_____.
   (c) ☐ The issue fee and publication fee, if applicable, has not been received.
3. ☐ Applicant's failure to timely file corrected drawings as required by, and within the three-month period set in, the Notice of Allowability (PTO-37).
   (a) ☐ Proposed corrected drawings were received on _____ (with a Certificate of Mailing or Transmission dated _____), which is after the expiration of the period for reply.
   (b) ☑ No corrected drawing have been received.
4. ☑ Applicant's failure to timely file the inventor's oath or declaration no later than the date on which the issue fee was paid as required by the Notice Requiring Inventor's Oath or Declaration (PTO-2306).
   (a) ☐ An inventor's oath or declaration was received on _____ (with a Certificate of Mailing or Transmission date _____), which is after the date on which the issue fee was paid.
   (b) ☑ While an oath or declaration (or substitute statement) for one or more inventors was received, an oath or declaration (or substitute statement) for at least one other inventor has not been received.
   (c) ☐ No inventor's oath or declaration has been received.
5. ☐ Drawings received on _____ were disapproved by examiner. See examiner's response dated _____.
6. ☐ Corrected drawings were received on _____ , which is after the expiration of the one-month period for reply set in examiner's response dated _____.
7. ☐ No corrected drawings have been received in reply to one-month period set in examiner's response dated _____.
8. ☑ The reason(s) below: Need substitute statement for 3rd inventor. Rule 1.47 petition invalid for this AIA application.

Petitions to revive under 37 CFR 1.137(a) or request to withdraw the holding of abandonment under 37 CFR 1.181, should be promptly filed to minimize any negative effects on patent term.

/A/ for

(571)-272-4200 or 1(888)-786-0101
Patent Publication Branch
Office of Data Management

FORM PTO-ABN0 (Rev. 03/17)

Doc Code: PET.OP
Document Description: Petition for Review by the Office of Petitions

PTO/SB/64 (12-13)
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 displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

Docket Number (Optional): RCL-005-16

First named inventor: Thomas Cona

Application No.: 14/861,340 Art Unit: 2455

Filed: September 22, 2015 Examiner: Tran, Philip B

Title: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX (571) 273-8300

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

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration date of the period set for reply in the Office notice or action plus any extensions of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION.

NOTE: A grantable petition requires the following items:

(1) Petition fee;
(2) Reply and/or issue fee;
(3) Terminal disclaimer with disclaimer fee – required for all utility and plant applications filed before June 8, 1995, and for all design applications; and
(4) Statement that the entire delay was unintentional.

1. **Petition fee**

☐ Small entity fee $ _____ (37 CFR 1.17(m)). Applicant asserts small entity status. See 37 CFR 1.27.

☑ Undiscounted fee $ 1,700 (37.CFR.1.17(m)).

2. **Reply and/or fee**

A The reply and/or fee to the above-noted Office notice or action in the form of

Substitute Statement (identify the type of reply):

☐ has been filed previously on _____.

☑ is enclosed herewith.

B The issue fee and publication fee (if applicable) of $ 960

☑ has been paid previously on June 6, 2017.

☐ is enclosed herewith.

This collection of information is required by 37 CFR 1.137(a). 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, 1.14 and 41.6. 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: Mail Stop Petition, 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: PET.OP
Document Description: Petition for Review by the Office of Petitions

PTO/SB/64 (12-13)
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 displays a valid OMB control number.

PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(a)

3. **Terminal disclaimer with disclaimer fee**

☑ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.

☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of $ _____) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. **STATEMENT:** The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(a) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(a) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

WARNING:

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

/Joseph Miller/
Signature

August 31, 2017
Date

Joseph Miller
Typed or Printed Name

61748
Registration Number, if applicable

1608 Walnut Street, Suite 1302
Address

215-735-9302
Telephone Number

Philadelphia, PA 19103
Address

Enclosures:

☑ Fee Payment
☑ Reply
☐ Terminal Disclaimer Form
☐ Additional sheet(s) containing statements establishing unintentional delay
☑ Other: Substitute Statement

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

I hereby certify that this correspondence is being:

☐ Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

☑ Transmitted by EFS-Web or facsimile on the date shown below to the United States Patent and Trademark Office at (571) 273-8300.

August 31, 2017
Date

/Robin L. Diesel/
Signature

Robin L. Diesel
Typed or printed name of person signing certificate

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Patent Application Fee Transmittal

Application Number:	14861340
Filing Date:	22-Sep-2015
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Filer:	Joseph Miller III/Robin Diesel
Attorney Docket Number:	RCL-005-16

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
PET. REVIVE ABANDON APP, DELAY PYMT-RESP	1453	1	1700	1700
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1700**

Electronic Acknowledgement Receipt

EFS ID:	30240906
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	84212
Filer:	Joseph Miller III/Robin Diesel
Filer Authorized By:	Joseph Miller III
Attorney Docket Number:	RCL-005-16
Receipt Date:	31-AUG-2017
Filing Date:	22-SEP-2015
Time Stamp:	15:01:07
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1700
RAM confirmation Number	090117INTEFSW15015500
Deposit Account	504766
Authorized User	Brian Belles

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

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

37 CFR 1.19 (Document supply fees)

37 CFR 1.20 (Post Issuance fees)

37 CFR 1.21 (Miscellaneous fees and charges)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Oath or Declaration filed	Substitute_Statement_Kravets_Executed.pdf	1541760 8863d8b58127e86a852549e275071f56aa71bc64	no	2
Warnings:					
Information:					
2	Petition for review by the Office of Petitions	Petition_for_Revival.pdf	2095993 75527a3bae82711e1623320850a8e30c59b7dc53	no	3
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30680 2f53005944c2498c0d5215f64eb3dbff0a53dcb2	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3668433		

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.

Doc code: Oath
Document Description: Oath or declaration filed

PTO/AIA/02 (07-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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SUBSTITUTE STATEMENT IN LIEU OF AN OATH OR DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (35 U.S.C. 115(d) AND 37 CFR 1.64)

Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

This statement is directed to:

☐ The attached application,

OR

☒ United States application or PCT international application number 14/861,340 filed on September 22, 2015.

LEGAL NAME of inventor to whom this substitute statement applies:

(*E.g.*, Given Name (first and middle (if any)) and Family Name or Surname)

Leonid Kravets

Residence (except for a deceased or legally incapacitated inventor):

City	State	Country
Philadelphia	PA	US

Mailing Address (except for a deceased or legally incapacitated inventor):

2001 Hamilton Avenue

City	State	Zip	Country
Philadelphia	PA	19130	US

I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.

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

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

Relationship to the inventor to whom this substitute statement applies:

☐ Legal Representative (for deceased or legally incapacitated inventor only),

☒ Assignee,

☐ Person to whom the inventor is under an obligation to assign,

☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

☐ Joint Inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. 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 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/SB/AIA02 (07-13)
Approved for use through 01/31/2014. 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.

SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement:

- ☐ Inventor is deceased,
- ☒ Inventor is under legal incapacity,
- ☐ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☒ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA/11 or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

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

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Gordon R. Herring | Date (Optional):

Signature: Gordon R Herring

APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juristic entity, list the applicant name and the title of the signer:

Applicant Name: Resource Consortium Limited

Title of Person Executing This Substitute Statement: Vice President

The signer, whose title is supplied above, is authorized to act on behalf of the applicant.

Residence of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent):

City Greenville | State SC | Country US

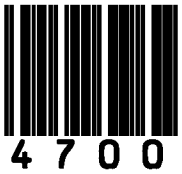
Mailing Address of the signer (unless provided in an application data sheet, PTO/AIA/14 or equivalent)

Craigmuir Chambers
P.O. Box 71, Road Town

City Tortola | State | Zip | Country VG

Note: Use an additional PTO/AIA/02 form for each inventor who is deceased, legally incapacitated, cannot be found or reached after diligent effort, or has refused to execute the oath or declaration under 37 CFR 1.63.

Office of Petitions: Routing Sheet



Application No. 14861340

This application is being forwarded to your office for further processing. A decision has been rendered on a petition filed in this application, as indicated below. For details of this decision, please see the document PET.OP.DEC filed on the same date as this document.

- [X] **GRANTED**
- [ ] **DISMISSED**
- [ ] **DENIED**

Office of Petitions: Decision Count Sheet

Mailing Month: 12

Application No.: 14861340

14861340

For US serial numbers: enter number only, no slashes or commas. Ex: 10123456
For PCT: enter "51+single digit of year of filing+last 5 numbers", Ex. for PCT/US05/12345, enter 51512345

Deciding Official: Dingle, Irvin

Count (1) - Palm Credit 14861340

Decision: GRANT

FINANCE WORK NEEDED
☐ Select Check Box for YES

GRANT

Decision Type: 502 - 37 CFR 1.137(b) - REVIVAL BASED ON UNINTENTI

502

Notes:

Count (2)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Count (3)

Decision: n/a

FINANCE WORK NEEDED
☐ Select Check Box for YES

Decision Type: NONE

Notes:

Initials of Approving Official (if required)

If more than 3 decisions, attach 2nd count sheet & mark this box ☐

Printed on: 12/12/2017

Office of Petitions Internal Document - Ver. 5.0

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.
14/861,340	09/22/2015	Thomas Cona	RCL-005-16	9073

84212 7590 12/14/2017

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

EXAMINER	
TRAN, PHILIP B	

ART UNIT	PAPER NUMBER
2455	

NOTIFICATION DATE	DELIVERY MODE
12/14/2017	ELECTRONIC

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

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

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

uspto@thebellesgroup.com

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

In re Application of	:	
Thomas Cona, et al	:	
Application No. 14/861,340	:	ON PETITION
Filed: September 22, 2015	:	
Attorney Docket No. RCL-005-16	:	

This is a decision on the petition filed August 31, 2017 under 37 CFR 1.137(a), to revive the above-identified application.

The petition is **GRANTED.**

The above-identified application became abandoned for applicant's failure to timely file the inventor's oath or declaration no later than the date on which the issue fee was paid as required by the Notice Requiring Inventor's Oath or Declaration (PTO-2306).

The petition satisfies the conditions for revival pursuant to the provisions of 37 CFR 1.137(a) in that (1) the reply in the form of substitute statement in lieu of an oath or declaration for Leonid Kravets; (2) the petition fee; and (3) the required statement of unintentional delay have been received.

Telephone inquiries concerning this decision should be directed to the undersigned at (571) 272-3210.

This matter is being referred to the Office of Data Management for further processing.

/Irvin Dingle/
Irvin Dingle
Lead Paralegal Specialist
Office of Petitions

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.
14/861,340	01/23/2018	9877345	RCL-005-16	9073

84212 7590 01/03/2018

The Belles Group, P.C.
1608 Walnut Street, Suite 1302
Philadephia, PA 19103

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

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

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Thomas Cona, Athens, GA;
Resource Consortium Limited, Tortola, VIRGIN ISLANDS, BRITISH;
Patrick T. Igoe, Philadelphia, PA;
Leonid Kravets, Philadelphia, PA;
Edward A. Ehrlacher, Philadelphia, PA;

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.

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
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TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B or equivalent) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5. If the Power of Attorney by Applicant form is not accompanied by this transmittal form or an equivalent, the Power of Attorney will not be recognized in the application.

Application Number	14/861,340
Filing Date	September 22, 2015
First Named Inventor	Thomas Cona
Title	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
Art Unit	2455
Examiner Name	Philip B. Tran
Attorney Docket Number	000137-0005-116

SIGNATURE of Applicant or Patent Practitioner

Signature	/Maxim A. Rapoport/	Date	October 16, 2018
Name	Maxim A. Rapoport	Telephone	(646) 973-2500
Registration Number	67,675		

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

[X] *Total of 1 forms are submitted.

PTO/AIA/82B (07-12)
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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

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

[X] I hereby appoint 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 equivalent):

01473

OR

[ ] I hereby appoint Practitioner(s) named below 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 equivalent):

Name Registration	Number	Name Registration	Number

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

[X] The address associated with the above-mentioned Customer Number:

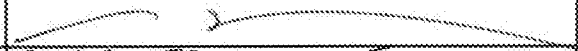
OR

[ ] The address associated with Customer Number:

OR

[ ] Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

SIGNATURE of Applicant for Patent

Signature		Date	9-28-18
Name	GUY R. FRIDDELL, III	Telephone	757-351-8802
Title and Company	PRESIDENT, RESOURCE CONSORTIUM LIMITED		

NOTE: This form must be signed by the applicant or applicant's representative in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

[X] *Total of 1 forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	34028137
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	84212
Filer:	Maxim Rapoport/Pamela Harrison
Filer Authorized By:	Maxim Rapoport
Attorney Docket Number:	RCL-005-16
Receipt Date:	16-OCT-2018
Filing Date:	22-SEP-2015
Time Stamp:	18:08:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	000137-0005-116_POA.pdf	231659 c058c964e3a51e6b2af54ba1649481e95b50d944	no	2
Warnings:					

Information:	
Total Files Size (in bytes):	231659

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
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/861,340	09/22/2015	Thomas Cona	RCL-005-16

CONFIRMATION NO. 9073

POWER OF ATTORNEY NOTICE

84212
The Belles Group, P.C.
337 S. 18th Street
Philadelphia, PA 19103

OC000000103241163

Date Mailed: 10/23/2018

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/16/2018.

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

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ldvan/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/861,340	09/22/2015	Thomas Cona	000137-0005-116

CONFIRMATION NO. 9073

POA ACCEPTANCE LETTER

1473
Haley Guiliano LLP
75 Broad Street
Suite 1000
NEW YORK, NY 10004

OC000000103241190

Date Mailed: 10/23/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/16/2018.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/ldvan/

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

PTO/AIA/82B (07-13)
Approved for use through 11/30/2020. 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 or equivalent) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5. If the Power of Attorney by Applicant form is not accompanied by this transmittal form or an equivalent, the Power of Attorney will not be recognized in the application.

Application Number	14/861,340 (Conf. No. 9073)
Filing Date	September 22, 2015
First Named Inventor	Thomas Cona
Title	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
Art Unit	2455
Examiner Name	Philip B. Tran
Attorney Docket Number	000137-0005-116

SIGNATURE of Applicant or Patent Practitioner

Signature	/Maxim A. Rapoport/	Date	December 7, 2022
Name	Maxim A. Rapoport	Telephone	(646) 973-2500
Registration Number	67,675		

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

[X] *Total of 1 forms are submitted.

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

PTO/AIA/82B (07-13)
Approved for use through 01/30/2018. OMB 0651-0051
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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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 PT /AIA/82A.)

[x] 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: 1473

OR

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

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

[X] 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):

SITNET LLC

[ ] Inventor or Joint Inventor (title not required below)

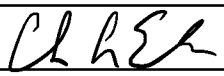
[ ] Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

[x] 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	02NOV22
Name	Charles Eldering		
Title	Manager of SITNET LLC		

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.

[X] Total of 1 forms are submitted.

Electronic Acknowledgement Receipt

EFS ID:	47155922
Application Number:	14861340
International Application Number:	
Confirmation Number:	9073
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	1473
Filer:	Maxim Rapoport/Shari Jackson
Filer Authorized By:	Maxim Rapoport
Attorney Docket Number:	000137-0005-116
Receipt Date:	07-DEC-2022
Filing Date:	22-SEP-2015
Time Stamp:	12:17:16
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Assignee showing of ownership per 37 CFR 3.73	000137-0005-116-373.pdf	1416094 d2df7fd8aecf17702ba88531e19cf6860a813338	no	3

Warnings:

Information:					
2	Power of Attorney	000137-0005-116-POA.pdf	163242 f793558348e103444f47a6767344cf50aaceeb42	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1579336		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

Applicant/Patent Owner: SitNet LLC

Application No./Patent No.: 9,877,345 Filed/Issue Date: January 23, 2018

Titled: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

SitNet LLC, a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

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

1. From: Thomas Cona et al. To: Resource Consortium Limited

   The document was recorded in the United States Patent and Trademark Office at Reel 036623, Frame 0809, or for which a copy thereof is attached.

2. From: Thomas Cona et al. To: Resource Consortium Limited

   The document was recorded in the United States Patent and Trademark Office at Reel 036624, Frame 0091, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(c)

3. From: Resource Consortium Limited To: Resource Consortium Limited, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 050091, Frame 0297, or for which a copy thereof is attached.

4. From: Resource Consortium Limited, LLC To: SitNet, LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 061630, Frame 0693, or for which a copy thereof is attached.

5. From: _____ To: _____

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

6. From: _____ To: _____

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

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

☑ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Maxim Rapoport/	December 7, 2022
Signature	Date
Maxim Rapoport	67,675
Printed or Typed Name	Title or Registration 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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
14/861,340	09/22/2015	Thomas Cona	000137-0005-116

CONFIRMATION NO. 9073

POA ACCEPTANCE LETTER

1473
Haley Guiliano LLP
75 Broad Street
Suite 1000
New York, NY 10004-3226

OC00000137027797

Date Mailed: 12/14/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/07/2022.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/sltorres/

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
14/861,340	09/22/2015	Thomas Cona	000137-0005-116

CONFIRMATION NO. 9073

POWER OF ATTORNEY NOTICE

1473
Haley Guiliano LLP
75 Broad Street
Suite 1000
New York, NY 10004-3226

OC00000137027796

Date Mailed: 12/14/2022

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/07/2022.

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

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/sltorres/