NON-PROVISIONAL UTILITY PATENT
APPLICATION TRANSMITTAL – 37 CFR 1.53(b)

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

Attorney Docket No. RCL-005-2
First Named Inventor: Cona, Thomas.
Total Pages of Transmittal Form: 2

Transmitted herewith for filing is the non-provisional utility patent application entitled:
Creating a Projection of a Situational Network
which is:

an ☒ Original; or

a ☐ Continuation, ☐ Divisional, or ☐ Continuation-in-part (CIP)
of prior Application No. filed

☒ This non-provisional patent application is based on Provisional Patent Application No. 60/887,843, filed February 2, 2007.

Enclosed are:

☒ Specification (Including Abstract) and claims: 59 pages

☐ Application Data Sheet

☒ (Un)Executed Declaration and Power of Attorney

☐ Copy of Declaration from prior application.

☐ Separate Power of Attorney (including 37 CFR 3.73(b) statement, if applicable).

☒ 45 Sheets of drawings

☐ Transmittal Letter Accompanying Submission of Compact Disc in Accordance with 37CFR §1.52(e), plus two identical compact discs (for computer program Appendix)

☐ Under PTO-1595 Cover Sheet, an assignment of the invention

☒ Name of Assignee: Resource Consortium Limited

☐ Preliminary Amendment

☐ Information Disclosure statement, PTO/SB/08A and/or PTO/SB/S08B, and cited references.

☒ Request of Nonpublication of Application Under 35 USC §122(b)

☐ Other:

The filing fee is calculated as follows:

			SMALL ENTITY		LARGE ENTITY	
CLAIMS	NO. FILED	NO. EXTRA	FILING FEE $150		FILING FEE $310	310.00
			SEARCH FEE $250		SEARCH FEE $510	510.00
			EXAM FEE $100		EXAM FEE $210	210.00
TOTAL	49 - 20 =	29	x 25.00		29 x 50.00	1,450.00
INDEP.	7 - 3 =	4	x 100.00		4 x 210.00	840.00
☐ Multiple Dependent Claims Present			$180.00		$360.00	
			TOTAL		**TOTAL**	**$3,320.00**

☒ The Commissioner is hereby authorized to charge and/or credit Deposit Account No. **503061** as noted below. A duplicate copy of this sheet is enclosed:

☒ Filing fee in the amount of **$3,320.00** as calculated above.

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

☒ Any additional fees required under 37CFR§1.16 and §1.17.

☒ In the event that a Petition for Extension of Time is required during the prosecution of this application, but not submitted, please charge any extension fee under 37 CFR §1.13(a) to the Deposit Account noted above.

CORRESPONDENCE ADDRESS

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DECLARATION AND POWER OF ATTORNEY
(Original Application)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Creating a Projection of a Situational Network

the specification of which is attached hereto and/or was filed on _____ as Application No. _____ .

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to herein.

I acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

FOREIGN PRIORITY APPLICATION(S)

			Priority Claimed
_____			[ ] Yes [ ] No
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional patent application(s) listed below and have also identified below any United States provisional patent application(s) having a filing date before that of the application on which priority is claimed:

PROVISIONAL PRIORITY PATENT APPLICATION(S)

		Priority Claimed
60/887,843	February 2, 2007	[X] Yes [ ] No
(Application No.)	(Filing Date)	

And I hereby appoint the registered attorneys and agents associated with **TECHNOLOGY, PATENTS & LICENSING, INC., Customer No. 27833**, as my attorneys or agents with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Address all correspondence to **Customer No. 27833,** namely, **TECHNOLOGY, PATENTS & LICENSING, INC.,** 2003 South Easton Road, Suite 208, Doylestown, PA 18901. Please direct all communications and telephone calls to Andrew W. Spicer at 267-880-1720.

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.

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor	Cona, Thomas
Title	Creating a Projection of a Situational Network
Attorney Docket Number	RCL-005-2

I hereby 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 agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

Signature — Date: 10/26/07

Andrew W. Spicer — Typed or printed name

57,420 — Registration Number, if applicable

267-880-1720 — Telephone Number

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing.**

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(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 and 1.14. This collection is estimated to take 6 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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TITLE

[0001] Creating a Projection of a Situational Network

CROSS REFERENCE TO RELATED APPLICATIONS

[0002] This application claims the benefit of U.S. Provisional Patent Application No. 60/887,843, filed February 2, 2007, and entitled *Situational Network*, Attorney Docket No. RCL-005-PV, the entire disclosure of which is incorporated herein by reference.

[0003] This application is related to co-pending U.S. Patent Application No. 11/566,947, filed December 5, 2006, entitled *Aggregating Personal Information in a Personal Information Aggregator*, Attorney Docket No. RCL-003-1, the entire disclosure of which is incorporated herein by reference.

[0004] This application is also related to co-pending U.S. Patent Application No. _____, filed October 26, 2007, entitled *Situational Network*, Attorney Docket No. RCL-005-1; U.S. Patent Application No. _____, filed October 26, 2007, entitled *Location Based Services in a Situational Network*, Attorney Docket No. RCL-005-3; U.S. Patent Application No. _____, filed October 26, 2007, entitled *Use of a Situational Network for Navigation and Travel*, Attorney Docket No. RCL-005-4; U.S. Patent Application No. _____, filed October 26, 2007, entitled *Access of Information Using a Situational Network*, Attorney Docket No. RCL-005-5; U.S. Patent Application No. _____, filed October 26, 2007, entitled *Searchable Message Board*, Attorney Docket No. RCL-005-6; and U.S. Patent Application No. _____, filed October 26, 2007, entitled *Targeted Advertising in a Situational Network*, Attorney Docket No. RCL-005-7.

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] 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.

[0006] In the Drawings:

[0007] Fig. 1 is a network diagram of an embodiment of a Situational Network (SitNet);

[0008] Fig. 2 is a use case diagram for the SitNet of Fig. 1;

[0009] Fig. 3 is a use case diagram for a personal information aggregator (PIA) used in accordance with the SitNet of Fig.1;

[0010] 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;

[0011] 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;

[0012] 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;

[0013] 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;

[0014] 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;

[0015] Figs. 9 is an activity diagram for the steps performed by the PIA used in accordance with the SitNet of Fig 1;

[0016] 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;

[0017] 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;

[0018] Fig. 12 is a network diagram of an N-Dimensional Social Network (NDSN) used in accordance with the SitNet of Fig 1;

[0019] Fig. 13 is a use case diagram for the NDSN of Fig. 12;

[0020] 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;

[0021] 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;

[0022] 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;

[0023] 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;

[0024] Fig. 18 is an example of nodes of the NDSN of Fig. 12;

[0025] Fig. 19 is an example of a projected NDSN used in accordance with the SitNet of Fig 1;

[0026] 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;

[0027] 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;

[0028] Fig. 22 is a block diagram of a computer system for realization of the SitNet of Fig.1;

[0029] Fig. 23 is a block diagram of a computer system through which the implementation of the SitNet of Fig. 1 may be realized;

[0030] Fig. 24 is a user case diagram of an emergency event situational network in accordance with the SitNet of Fig. 1;

[0031] Fig. 25 is an example of a propagation of a notification using a PIA in accordance with the SitNet of Fig. 1;

[0032] Fig. 26 is an example of a method of connecting to a weather-dependent social network in accordance with the SitNet of Fig. 1;

[0033] Fig. 27 is an example of presenting targeted advertisements to different users in accordance with the SitNet of Fig. 1;

[0034] Fig. 28 is a use case diagram in accordance with the SitNet of Fig. 1;

[0035] Fig. 29 is an example of temporally limited links in accordance with the SitNet of Fig. 1;

[0036] Fig. 30 is an example of a geographic projection of nodes in accordance with the SitNet of Fig. 1;

[0037] Fig. 31 is an example of an event relative embodiment of a SitNet;

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[0038] Fig. 32 is an example of presenting a roll call to a user in accordance with the SitNet of Fig. 1;

[0039] Fig. 33 is an example of a searchable message board that can be used in accordance with the SitNet of Fig. 1;

[0040] Fig. 34 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0041] Fig. 35 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0042] Fig. 36 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0043] Fig. 37 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0044] Fig. 38 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0045] Fig. 39 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0046] Fig. 40 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0047] Fig. 41 is a flow diagram in accordance with the SitNet of Fig. 1;

[0048] Fig. 42 is a sequence diagram in accordance with the SitNet of Fig. 1;

[0049] Fig. 43 is a network diagram of an alternative embodiment of a SitNet;

[0050] Fig. 44 is a network diagram of an alternative embodiment of a SitNet; and

[0051] Fig. 45 is a network diagram of an alternative embodiment of a SitNet.

DETAILED DESCRIPTION

[0052] 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.

[0053] 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.

[0054] 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.

[0055] 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.

[0056] 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.

[0057] 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.

[0058] 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.

[0059] 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.

[0060] 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.

[0061] 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.

[0062] 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.

[0063] 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.

[0064] 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.

[0065] 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.

[0066] 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.

[0067] 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.

[0068] 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.

[0069] 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.

[0070] 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.

[0071] 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.

[0072] 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.

[0073] 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.).

[0074] 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.

[0075] 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.

[0076] 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.

[0077] 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.

[0078] 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.

[0079] 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.

[0080] 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.

[0081] 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.

[0082] 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.).

[0083] 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.

[0084] 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.

[0085] 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.

[0086] 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.

[0087] 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.

[0088] 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.

[0089] 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.

[0090] 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.

[0091] 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.

[0092] 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.

[0093] 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.

[0094] 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.

[0095] 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.

[0096] 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.

[0097] 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.

[0098] 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.

[0099] 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.

[00100] 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.

[00101] 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.

[00102] 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.

[00103] 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.

[00104] 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.

[00105] 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.

[00106] 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.

[00107] 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.

[00108] 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

[00109] 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.

[00110] 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.

[00111] 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.

[00112] 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.

[00113] 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.

[00114] 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.

[00115] 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.

[00116] 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.

[00117] 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.

[00118] 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.

[00119] 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.

[00120] 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.

[00121] 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.

[00122] 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.

[00123] 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.

[00124] 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.

[00125] 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.

[00126] 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.

[00127] 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).

[00128] 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.

[00129] 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.

[00130] 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)).

[00131] 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.

[00132] 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.

[00133] 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.

[00134] 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.

[00135] 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.

[00136] 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.

[00137] 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.

[00138] 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).

[00139] 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.

[00140] 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).

[00141] 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.

[00142] 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.

[00143] 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.

[00144] 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.

[00145] 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.

[00146] 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.

[00147] 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.

[00148] 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.

[00149] 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.

[00150] 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.

[00151] 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.

[00152] 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.

[00153] 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.

[00154] 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.

[00155] 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.

[00156] 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.

[00157] 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.

[00158] 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.

[00159] 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.

[00160] 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.

[00161] 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.

[00162] 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.

[00163] 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.

[00164] 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.

[00165] 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.

[00166] 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.

[00167] 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.

[00168] 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.

[00169] 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.

[00170] 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.

[00171] 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.

[00172] 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.

[00173] 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.

[00174] 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.

[00175] 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.

[00176] 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.

[00177] 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.

[00178] 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.

[00179] 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.

[00180] 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.

[00181] 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.

[00182] 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.

[00183] 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.

[00184] 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.

[00185] 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.

[00186] 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.

[00187] 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.

[00188] 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.

[00189] 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

1. A method of creating a projection of a situational network, the method comprising:

(a) creating, by an event node server, an event node in a multi-dimensional personal information network, the event node corresponding to a situation;

(b) forming a projection of nodes of the situational network using geographic locations of a plurality of devices corresponding to nodes in the multi-dimensional personal information network;

(c) transmitting an invitation to establish a link with the event node server to the devices corresponding to each node in the projection formed in step (b);

(d) receiving a response from at least one of the devices from step (c) accepting the invitation to establish a link with the event node server; and

(e) establishing a link with each device accepting the invitation.

2. The method of claim 1, wherein the event node is created in response to identification of the situation by a situation authority.

3. The method of claim 1, further comprising:

(f) providing the projection formed in step (b) to each device corresponding to the nodes in the projection that has established a link with the event node server.

4. The method of claim 1, further comprising:

(f) providing a first set of information about the situation to each device corresponding to the nodes in the projection that has established a link with the event node server.

5. The method of claim 4, wherein the first set of information in step (f) includes targeted advertisements.

6. The method of claim 4, further comprising:

(f) receiving additional sets of information about the situation from at least one of the devices corresponding to the nodes in the projection that have established a link with the event node server; and

(g) distributing updated information about the situation based on the additional sets of information to the devices corresponding to the nodes in the projection that have established a link with the event node server.

7. The method of claim 1, wherein the event node server forms one or more different projections of the nodes, each of the one or more projections receiving geographically relevant information from the event node server.

8. The method of claim 1, wherein the device is a personal information aggregator.

9. The method of claim 1, wherein the situation is a weather phenomenon.

10. A method of creating a projection of a situational network, the method comprising:

(a) receiving, by a first device corresponding to a node in a multi-dimensional personal information network, an invitation to establish a link with an event node server in response to the first device being included in a projection of nodes of the multi-dimensional personal information network;

(b) transmitting a response accepting the invitation to establish a link with the event node server;

(c) establishing a link with the event node server; and

(d) receiving information about the situation from the event node server.

11. The method of claim 10, wherein the invitation is received based on a geographic proximity of the first device with other devices in the multi-dimensional personal information network.

12. The method of claim 10, wherein the event node server corresponds to an event node of the situational network created in response to identification of the situation by a situation authority.

13. The method of claim 10, further comprising:

(e) receiving the projection of the nodes of the situational network from step (a) from the event node server.

14. The method of claim 13, further comprising:

(f) inviting at least one other device included in the projection to establish a link with the first device;

(g) connecting to the at least one other device from step (e) accepting the invitation; and

(h) sharing information related to the situation with the at least one other device.

15. The method of claim 14, wherein the connections established in step (g) have an order of separation of one.

16. The method of claim 14, wherein the connections established in step (g) are multi-dimensional.

17. The method of claim 16, wherein at least one of the dimensions corresponds to the situation.

18. The method of claim 17, wherein the dimension corresponding to the situation includes an affinity greater than affinity included along the other dimensions.

19. The method of claim 10, further comprising:

(e) providing information about the situation to the event node server.

20. A method of creating a projection of a situational network, the method comprising:

(a) establishing, by a first personal information aggregator, a connection with one or more other personal information aggregators based on the occurrence of a situation, each personal information aggregator corresponding to a node in a multi-dimensional personal information network;

(b) obtaining a geographic location for each the one or more other personal information aggregators; and

(c) forming one or more projections of nodes of the multi-dimensional personal information network based on the geographic locations of each of the other personal information aggregators.

21. The method of claim 20, further comprising:

(d) exchanging a first set of information about the situation with the other personal information aggregators corresponding to nodes in a first projection; and

(e) exchanging a second set of information about the situation with the other personal information aggregators corresponding to nodes in a second projection.

22. The method of claim 20, wherein a subset of the nodes in the first projection are included in the nodes of the second projection.

23. The method of claim 20, further comprising:

(d) providing one of the one or more projections to other personal information aggregators.

24. The method of claim 20, wherein the projection of nodes includes an event-node established by a situation authority in response to an identification of the situation.

25. A system for creating a projection of a situational network, the system comprising:

an event node server, corresponding to a situation authority, configured to create an event node in a multi-dimensional personal information network, the event node corresponding to a situation, form a projection of nodes of the situational network using geographic locations of a plurality of devices corresponding to nodes in the multi-dimensional personal information network, transmit an invitation to establish a link with the event node server to the device corresponding to each node in the projection, receive a response from at least one of the devices accepting the invitation to establish a link with the event node server, and establish a link with each device accepting the invitation; and

a plurality of devices configured to receive an invitation to establish a link with an event node server in response being included in a projection of nodes of the multi-dimensional personal information network, transmit a response accepting the invitation to establish a link with the event node server, and receive information about the situation from the event node server.

26. A method of propagating information within a situational network, the method comprising:

(a) receiving a message with information related to a situation;

(b) determining at least one subset of a plurality of individuals to receive notifications corresponding to the situation, wherein the notifications include the message;

(c) generating a different notification for each of the at least one subsets of individuals; and

(d) transmitting, via the situational network, substantially simultaneously the different notifications to the at least one subset of individuals.

27. The method of claim 26, further comprising:

(e) transmitting a reply to a sender of the message, wherein the reply is transmitted substantially simultaneously with the different notifications from step (d).

28. The method of claim 26, wherein the situation is a weather phenomenon.

29. The method of claim 26, wherein the message is created by a situation authority in response to obtaining an indication of the occurrence of the situation.

30. The method of claim 26, wherein the message in created by a first individual in response to obtaining an indication of the occurrence of the situation.

31. The method of claim 26, wherein the at least one subset of individuals is determined automatically based on the situation.

32. The method of claim 26, wherein the at least one subset of individuals is pre-determined based on the situation.

33. The method of claim 26, wherein the different notifications are generated by a first individual in response to receiving the message.

34. The method of claim 33, wherein the different notifications are generated prior to the different notifications being transmitted to the at least one subset of individuals.

35. The method of claim 26, wherein the different notifications are transmitted together using a single action on a device used to generate the different notifications.

36. The method of claim 26, wherein the message is distributed using peer to peer connections between devices corresponding to the plurality of individuals.

37. A method of propagating information in a situational network, the method comprising:

(a) receiving by a second personal information aggregator from a first personal information aggregator, a message relating to a situation, the first and second personal

information aggregators corresponding to a nodes in a multi-dimensional personal information network;

(b) automatically creating by the second personal information aggregator one or more projections of nodes of the multi-dimensional personal information network based on the situation; and

(c) transmitting, substantially simultaneously, notifications to a set of third personal information aggregators corresponding to the nodes of the one or more projections, wherein each projection receives a different notification.

38. The method of claim 37, further comprising:

(d) transmitting, substantially simultaneously with the notifications in step (c), a reply to the first personal information aggregator.

39. The method of claim 37, wherein the notifications include the message.

40. The method of claim 38, wherein the situation is a weather phenomenon.

41. The method of claim 37, wherein the first personal information aggregator corresponds to an event node of the situational network established by a situation authority.

42. The method of claim 37, wherein the nodes corresponding to the first personal information aggregator and the second personal information aggregator are separated by an order of one.

43. The method of claim 37, wherein the nodes corresponding the second personal information aggregator and the set of third personal information aggregators are separated by an order of one.

44. The method of claim 37, wherein the notifications are transmitted using a single action by a user of the second personal information aggregator.

45. The method of claim 37, wherein each projection of nodes are related to the second personal information aggregator along a common dimension.

46. The method of claim 37, wherein each of the one or more projections of nodes corresponds to a set of users with a shared interest with a user of the second personal information aggregator.

47. A system for propagating information within a situational network, the system comprising:

a first device configured to receive a message with information related to a situation, determine at least one subset of a plurality of individuals to receive notifications corresponding to the situation, wherein the notifications include the message, generate a different notification for each of the at least one subsets of

individuals, and transmit, via the situational network, substantially simultaneously the different notifications to the at least one subset of individuals; and

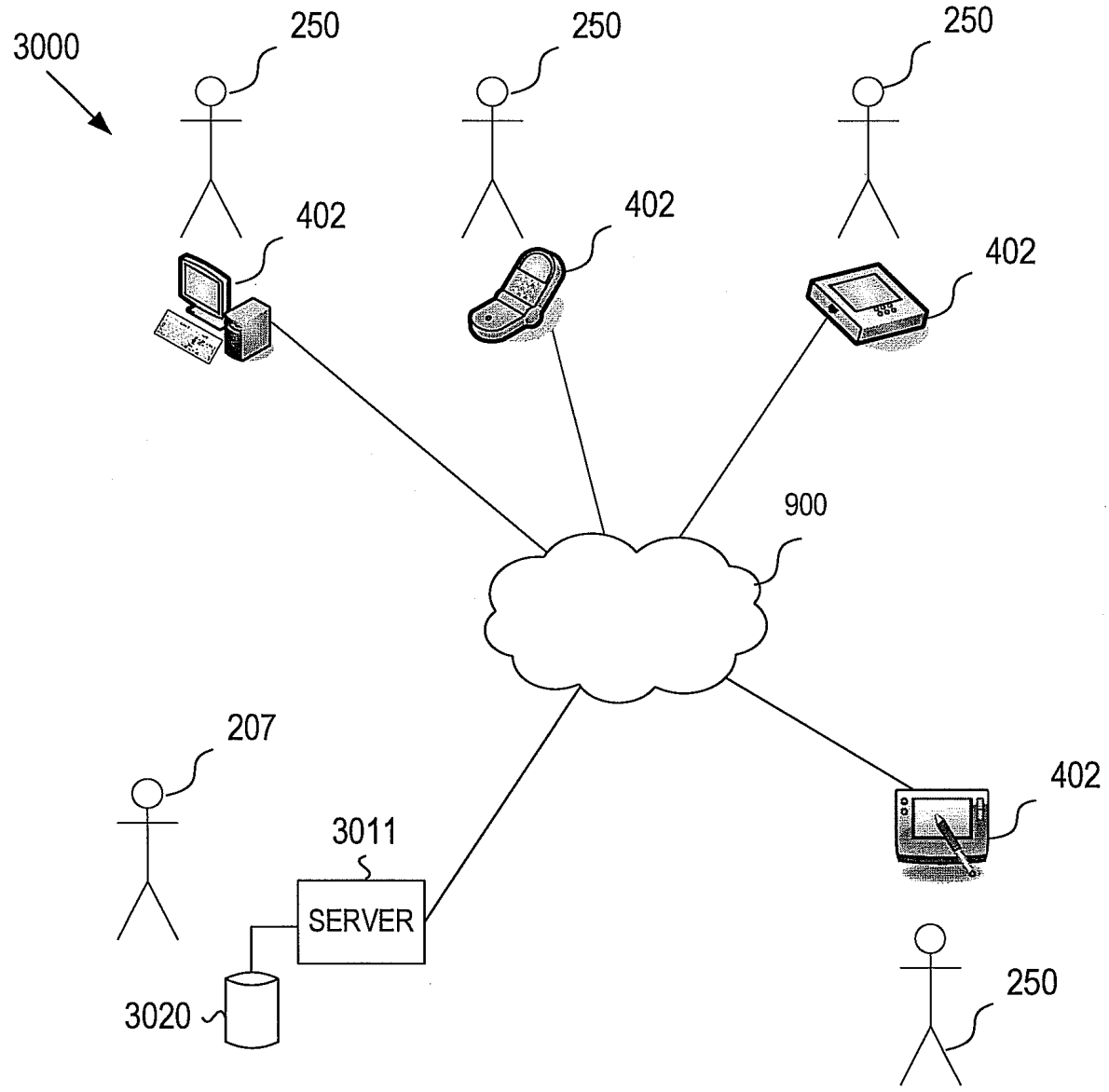
a plurality of second device, each device corresponding to one of the plurality of individuals, configured to receive, via the situational network, the different notifications from the first device.

48. The system of claim 47, wherein the first device is a personal information aggregator.

49. The system of claim 47, wherein at least one of the plurality of second devices is a personal information aggregator.

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
3020
402
250

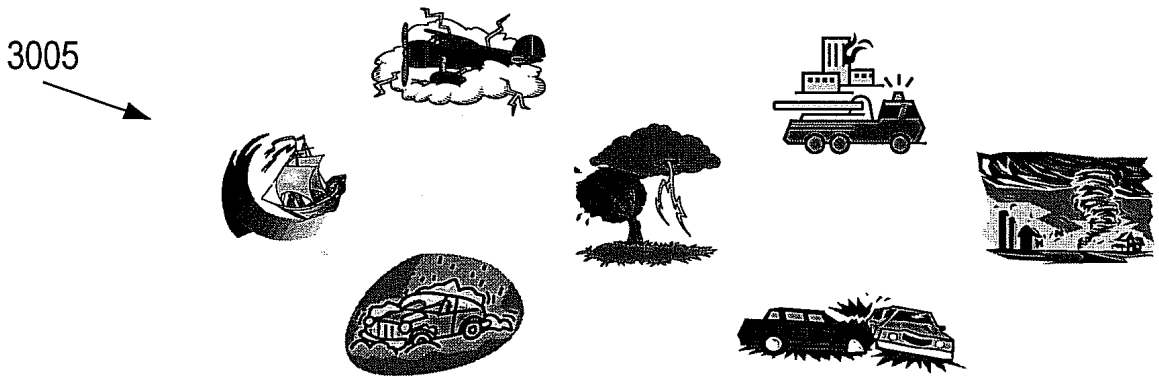

3005

Fig. 1

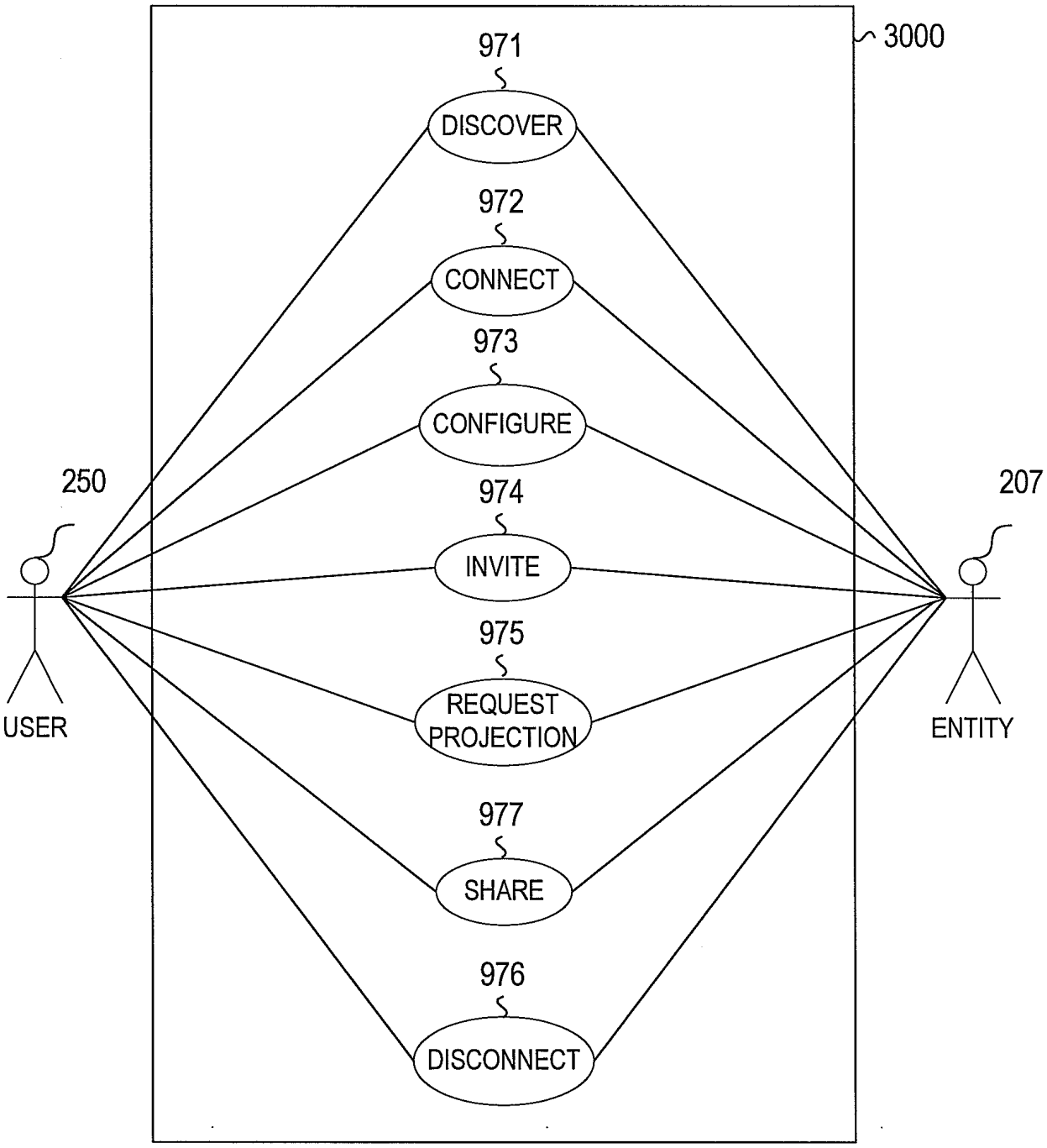

3000
971
DISCOVER
972
CONNECT
973
CONFIGURE
974
INVITE
975
REQUEST PROJECTION
977
SHARE
976
DISCONNECT
250
USER
207
ENTITY

Fig. 2

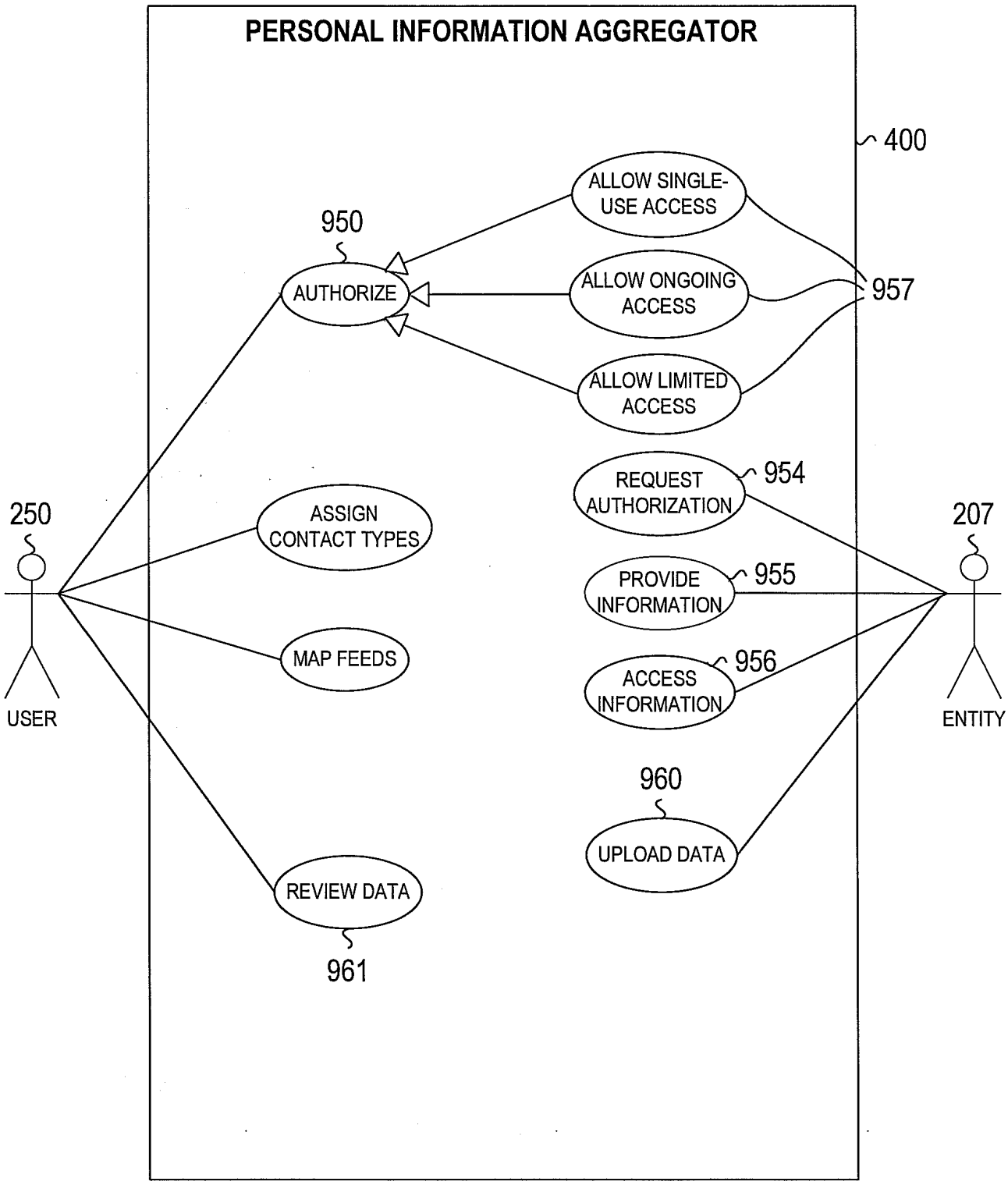

PERSONAL INFORMATION AGGREGATOR
400
ALLOW SINGLE-USE ACCESS
950
AUTHORIZE
ALLOW ONGOING ACCESS
957
ALLOW LIMITED ACCESS
REQUEST AUTHORIZATION
954
250
ASSIGN CONTACT TYPES
207
PROVIDE INFORMATION
955
MAP FEEDS
ACCESS INFORMATION
956
USER
ENTITY
960
UPLOAD DATA
REVIEW DATA
961

Fig. 3

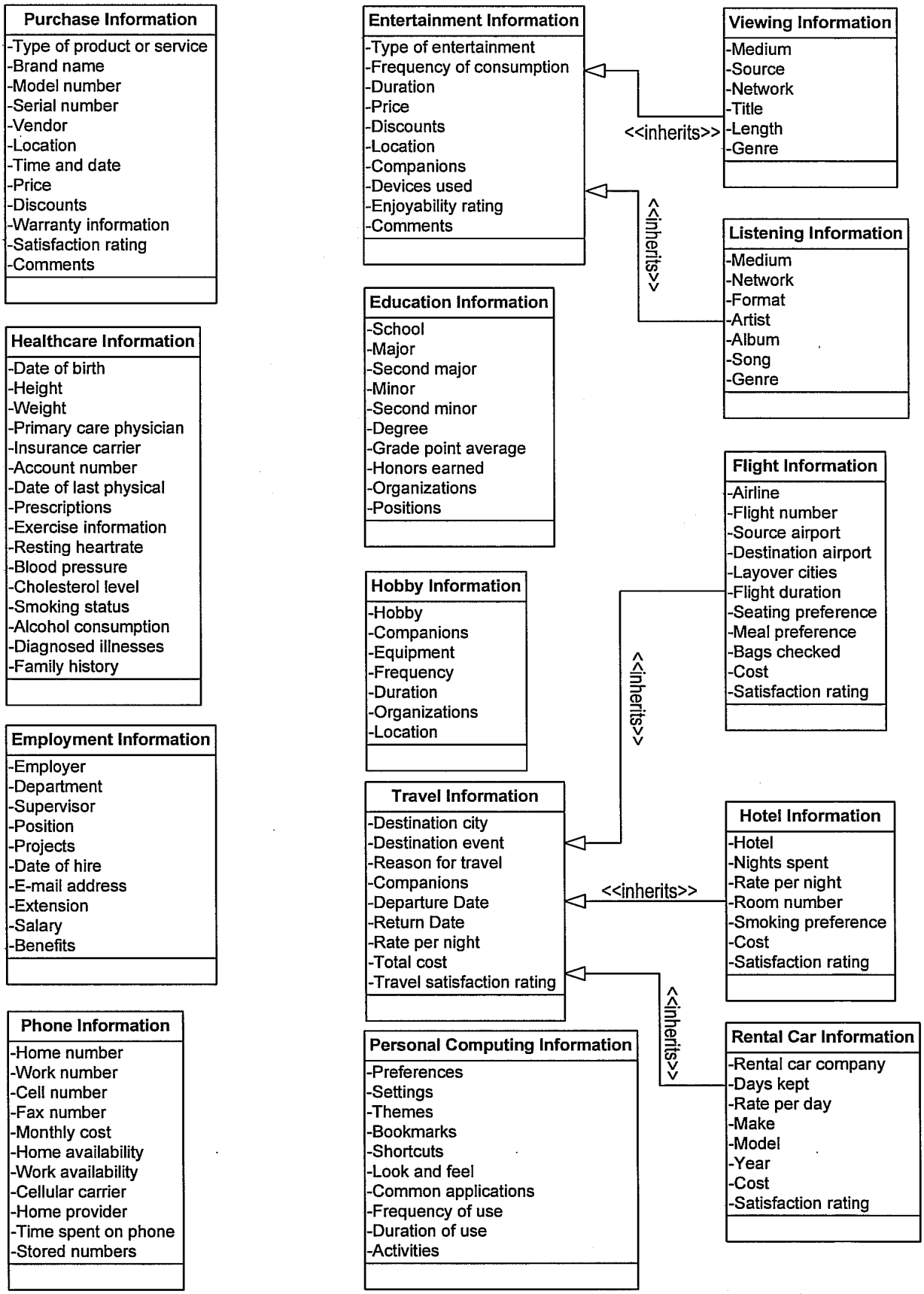

Purchase Information
-Type of product or service
-Brand name
-Model number
-Serial number
-Vendor
-Location
-Time and date
-Price
-Discounts
-Warranty information
-Satisfaction rating
-Comments
Healthcare Information
-Date of birth
-Height
-Weight
-Primary care physician
-Insurance carrier
-Account number
-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

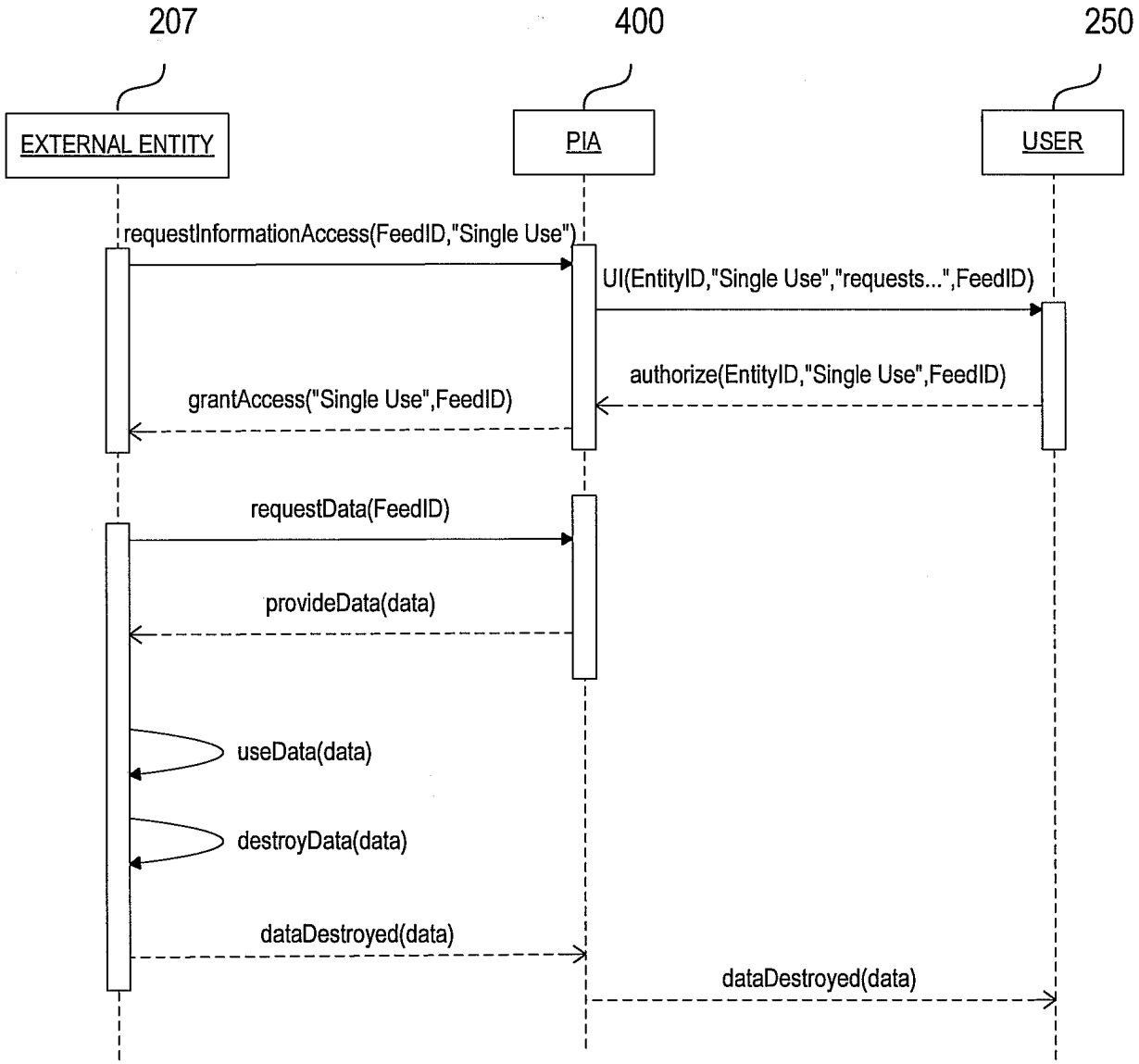

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Single Use")
UI(EntityID,"Single Use","requests...",FeedID)
authorize(EntityID,"Single Use",FeedID)
grantAccess("Single Use",FeedID)
requestData(FeedID)
provideData(data)
useData(data)
destroyData(data)
dataDestroyed(data)
dataDestroyed(data)

Fig. 5

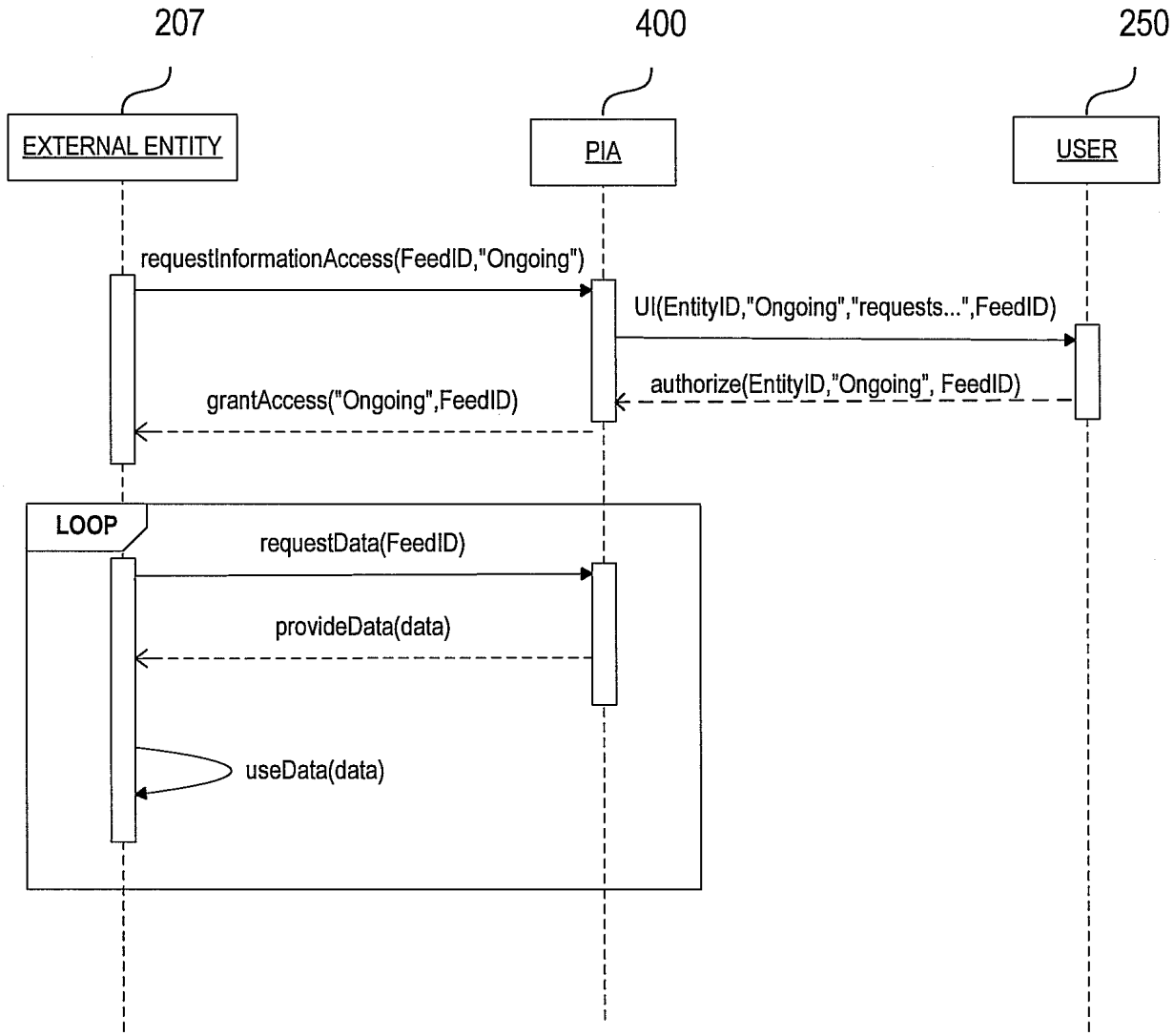

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Ongoing")
UI(EntityID,"Ongoing","requests...",FeedID)
authorize(EntityID,"Ongoing", FeedID)
grantAccess("Ongoing",FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)

Fig. 6

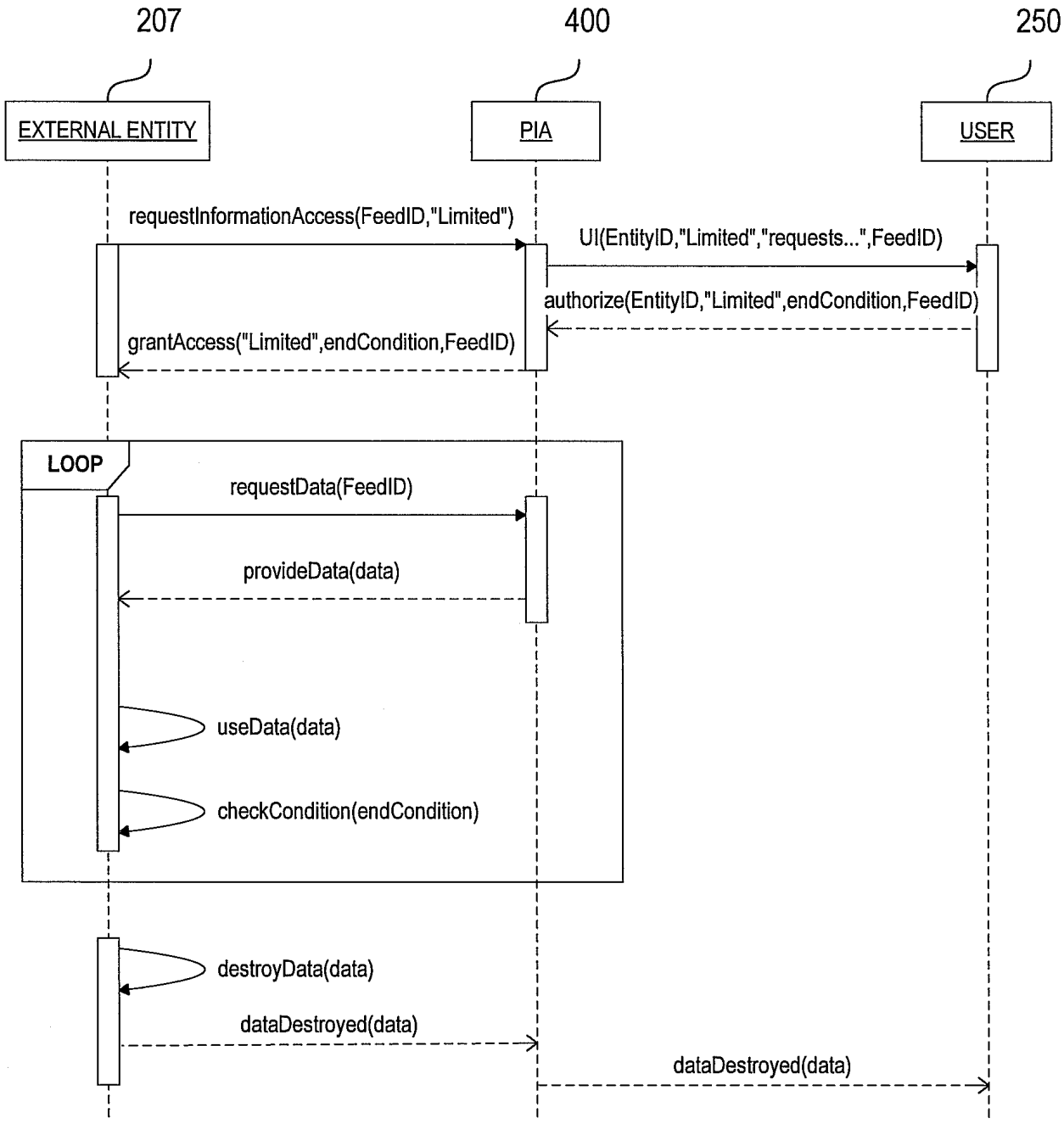

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Limited")
UI(EntityID,"Limited","requests...",FeedID)
authorize(EntityID,"Limited",endCondition,FeedID)
grantAccess("Limited",endCondition,FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)
checkCondition(endCondition)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

Fig. 7

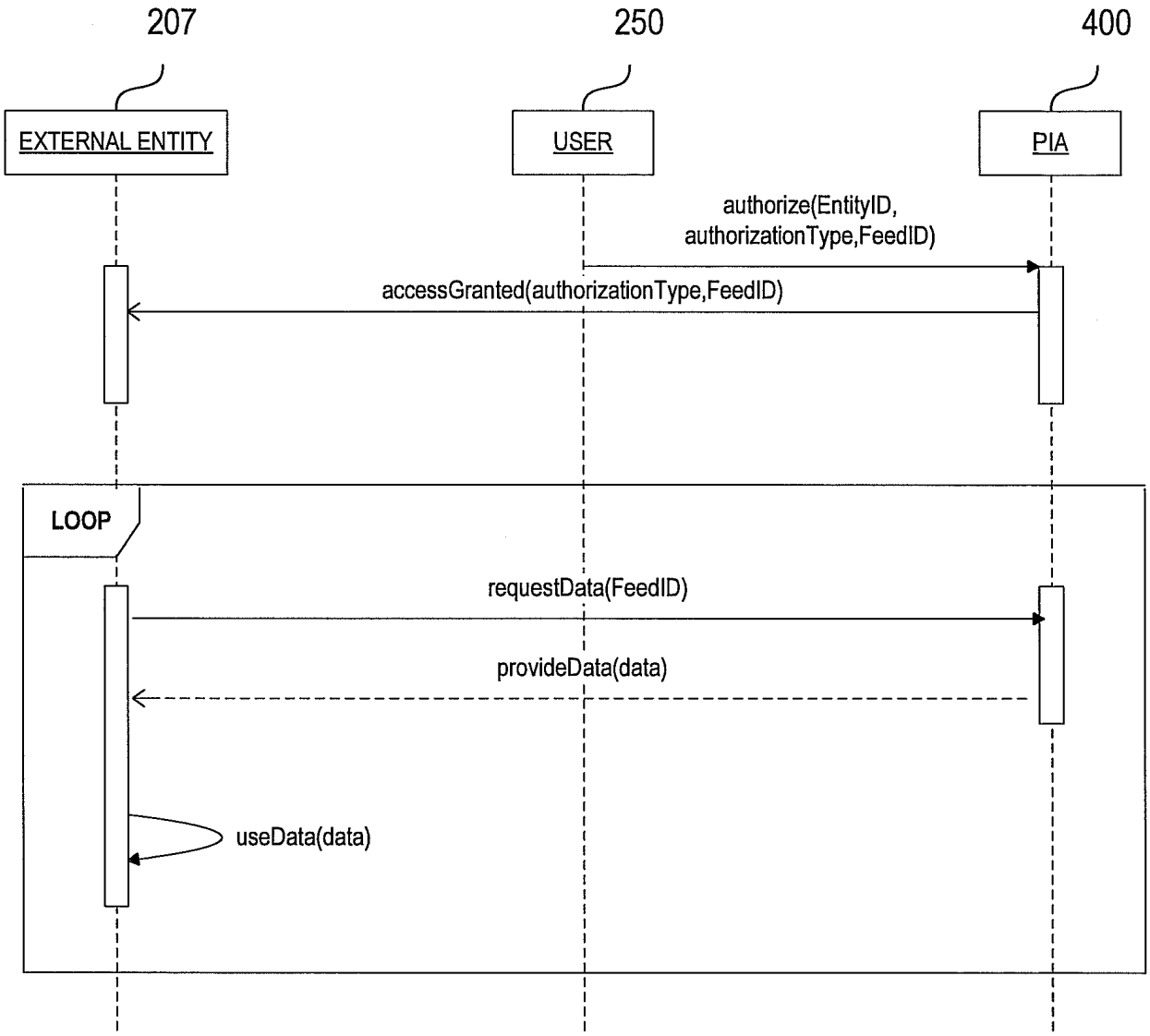

207
250
400
EXTERNAL ENTITY
USER
PIA
authorize(EntityID, authorizationType,FeedID)
accessGranted(authorizationType,FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)

Fig. 8

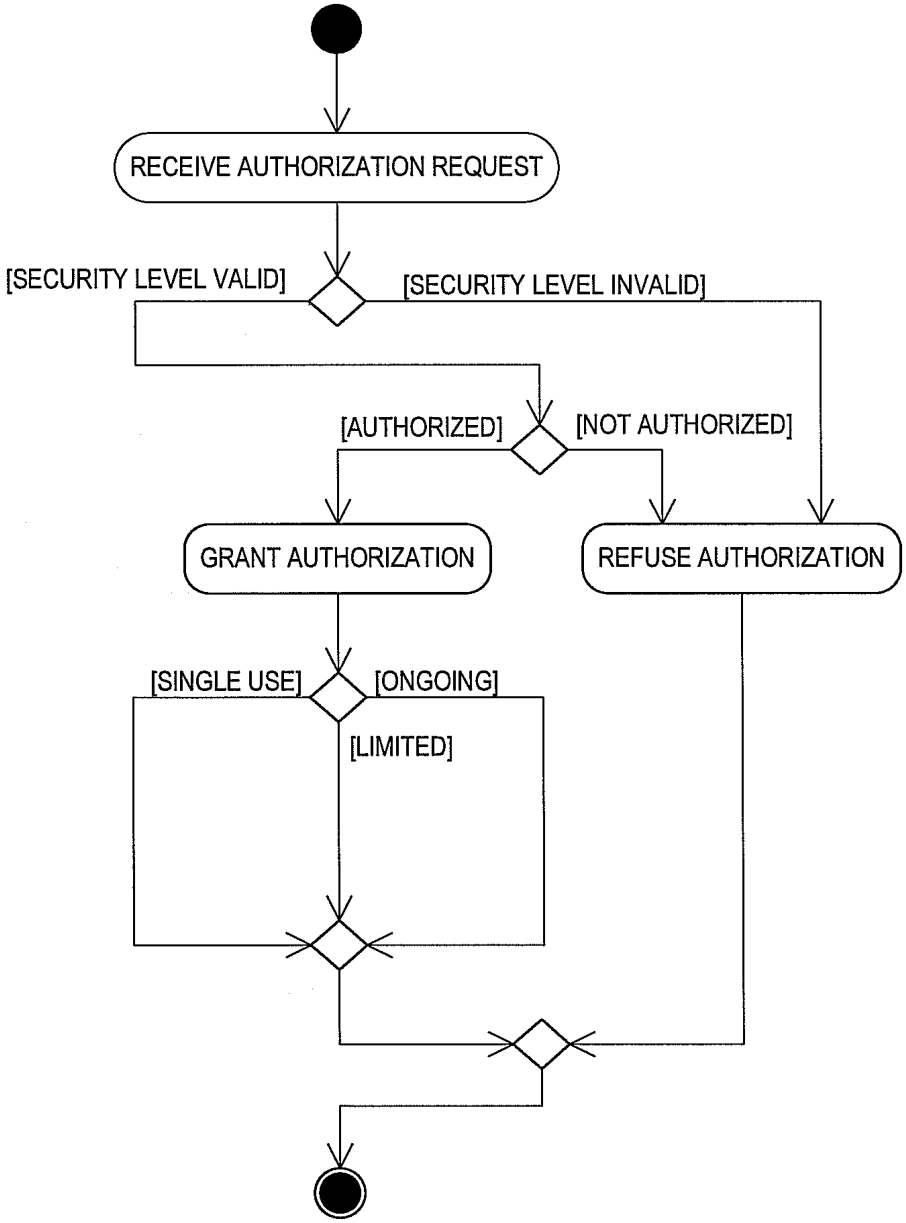

RECEIVE AUTHORIZATION REQUEST
[SECURITY LEVEL VALID]
[SECURITY LEVEL INVALID]
[AUTHORIZED]
[NOT AUTHORIZED]
GRANT AUTHORIZATION
REFUSE AUTHORIZATION
[SINGLE USE]
[ONGOING]
[LIMITED]

Fig. 9

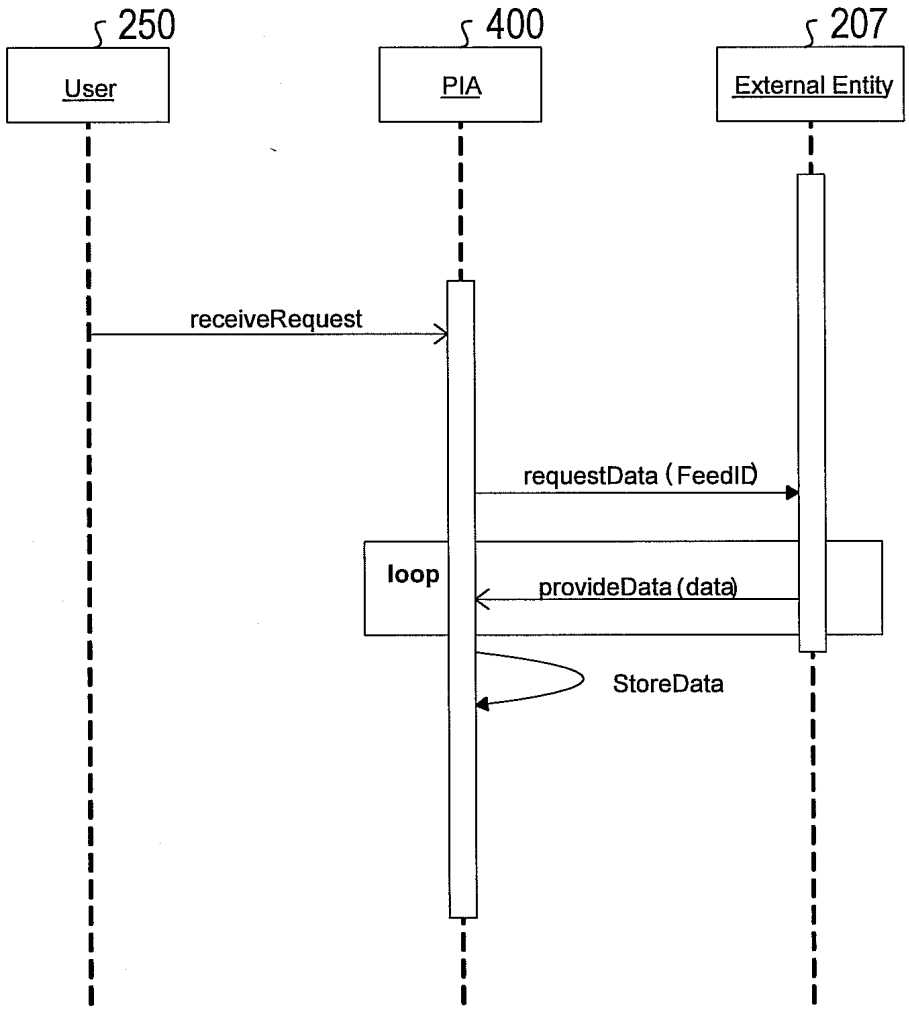

250
User
400
PIA
207
External Entity
receiveRequest
requestData (FeedID)
loop
provideData (data)
StoreData

Fig. 10

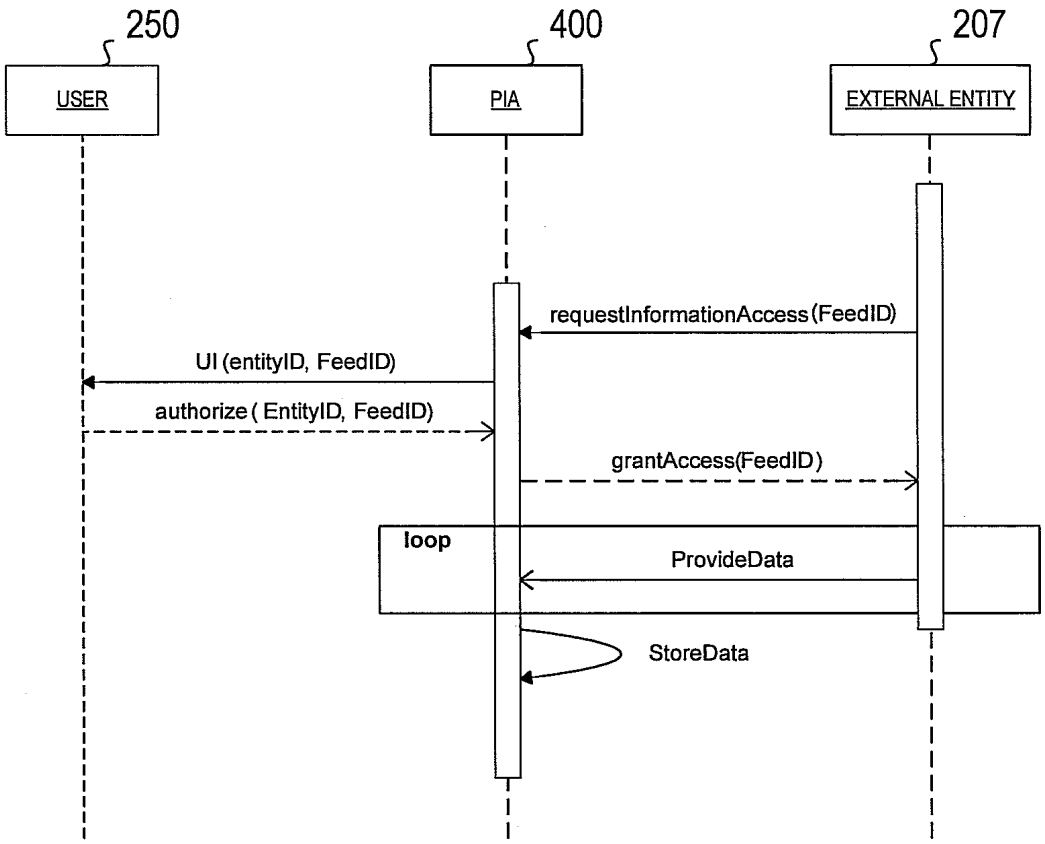

250
400
207
USER
PIA
EXTERNAL ENTITY
requestInformationAccess(FeedID)
UI (entityID, FeedID)
authorize(EntityID, FeedID)
grantAccess(FeedID)
loop
ProvideData
StoreData

Fig. 11

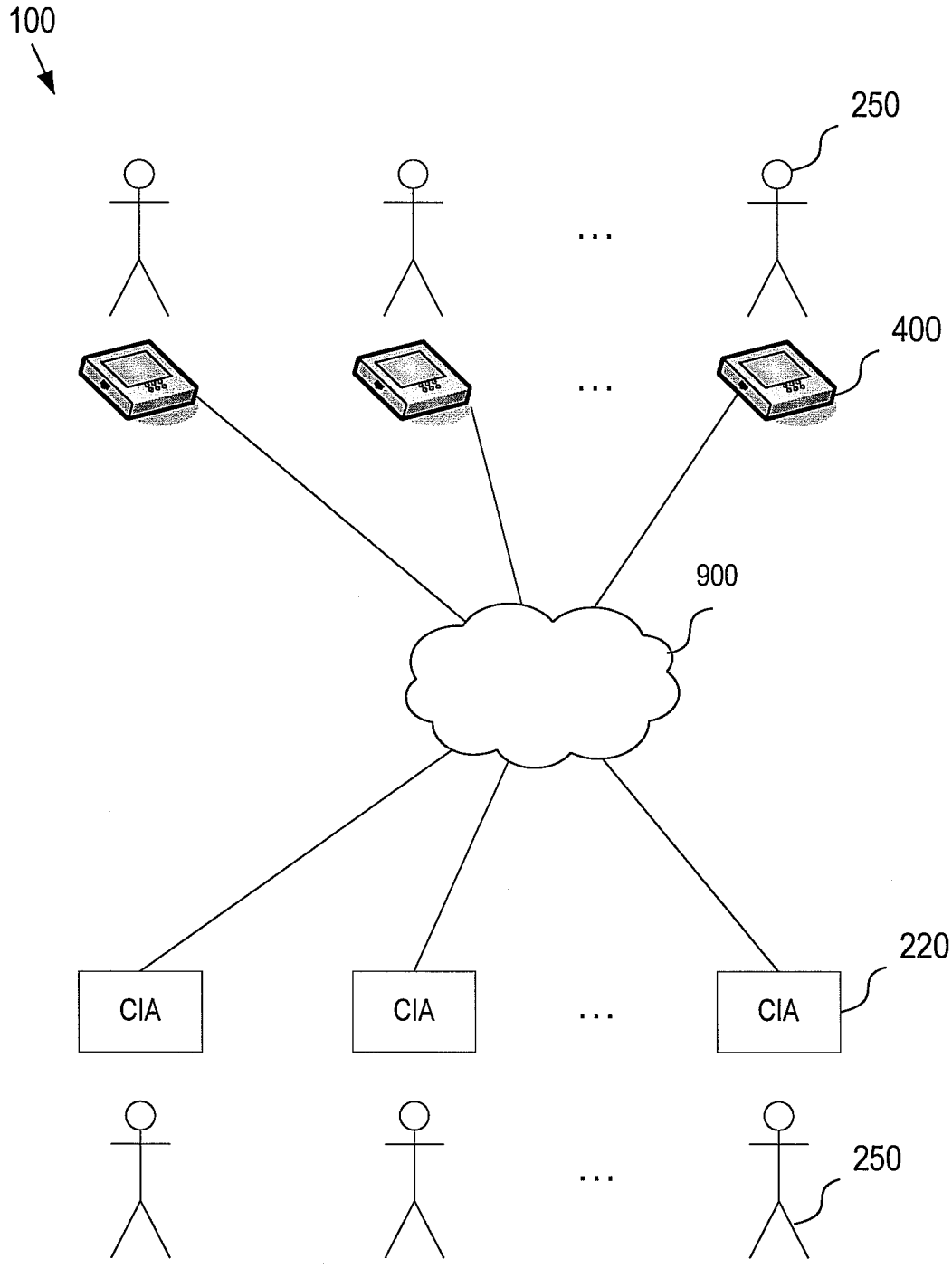


Fig. 12

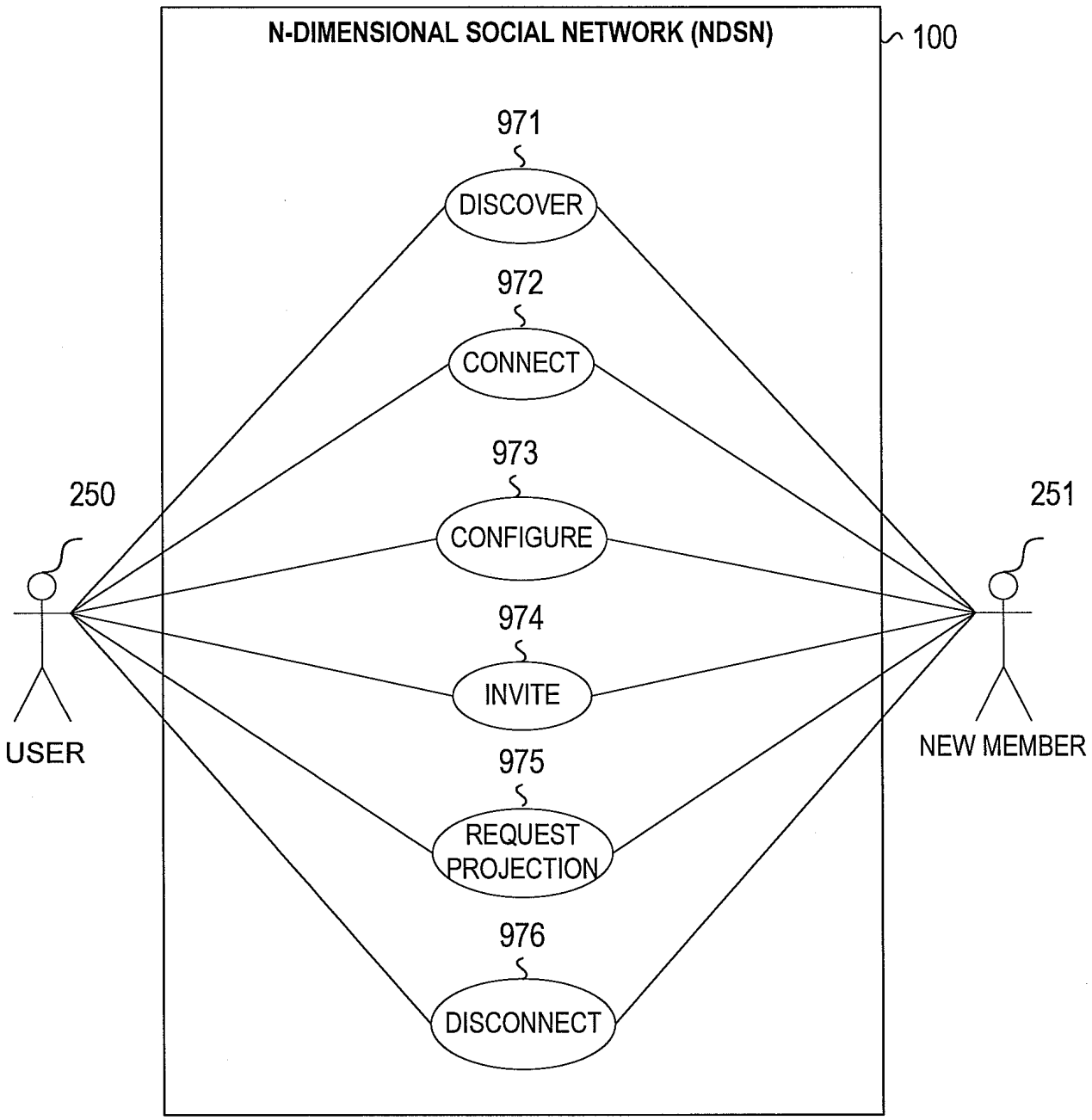

N-DIMENSIONAL SOCIAL NETWORK (NDSN)
100
971
DISCOVER
972
CONNECT
973
CONFIGURE
974
INVITE
975
REQUEST PROJECTION
976
DISCONNECT
250
USER
251
NEW MEMBER

Fig. 13

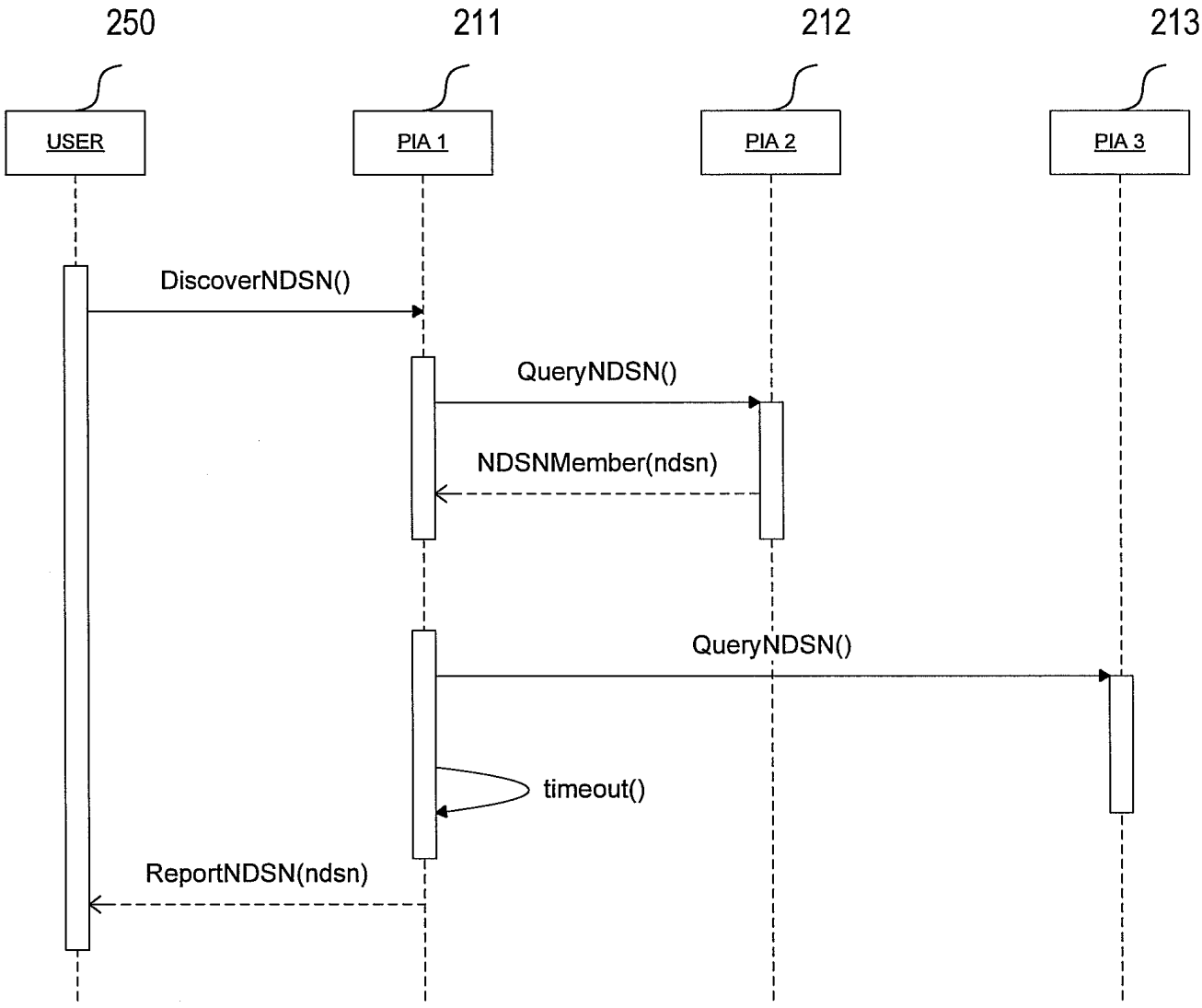

250
211
212
213
USER
PIA 1
PIA 2
PIA 3
DiscoverNDSN()
QueryNDSN()
NDSNMember(ndsn)
QueryNDSN()
timeout()
ReportNDSN(ndsn)

Fig. 14

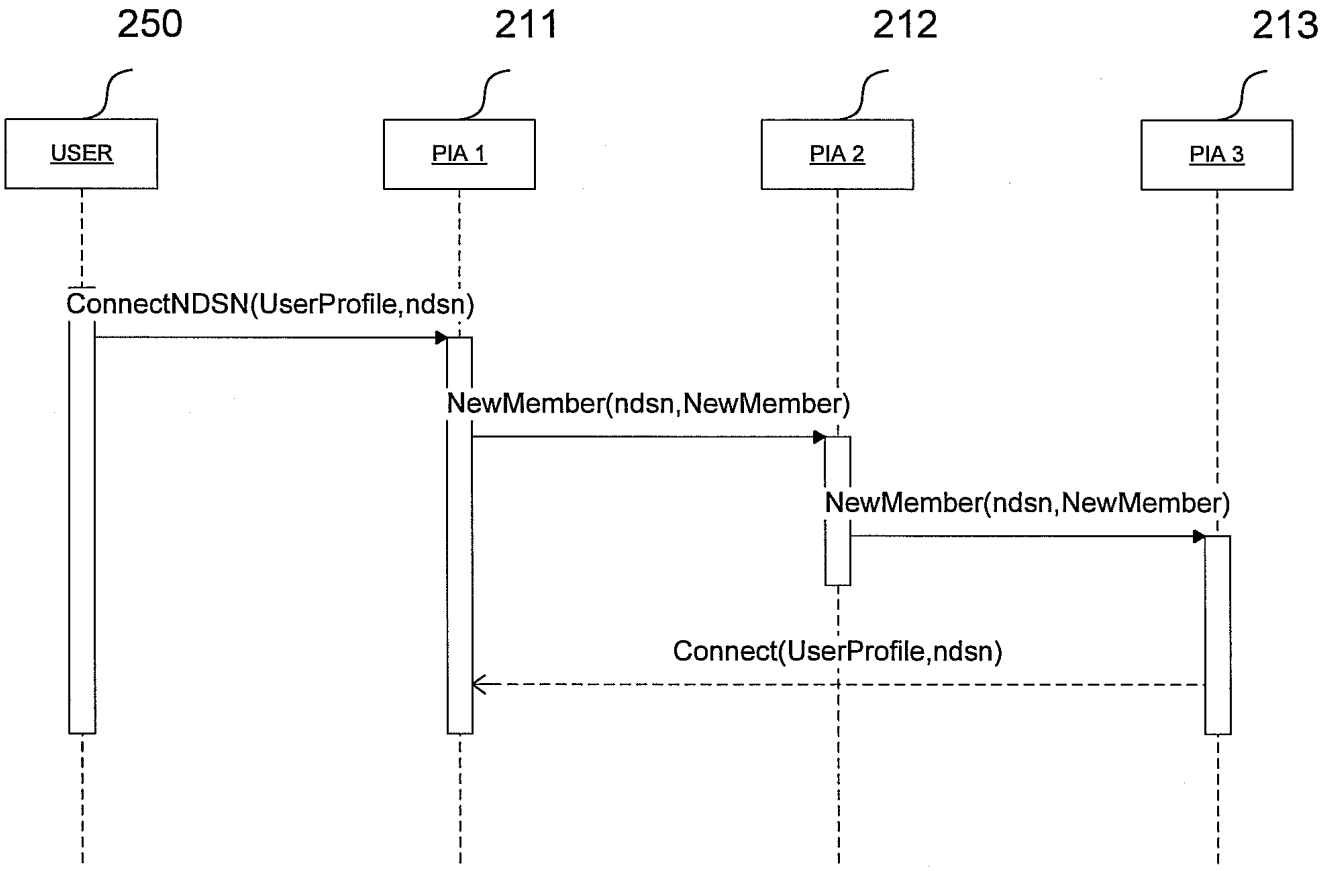

250
211
212
213
USER
PIA 1
PIA 2
PIA 3
ConnectNDSN(UserProfile,ndsn)
NewMember(ndsn,NewMember)
NewMember(ndsn,NewMember)
Connect(UserProfile,ndsn)

Fig. 15

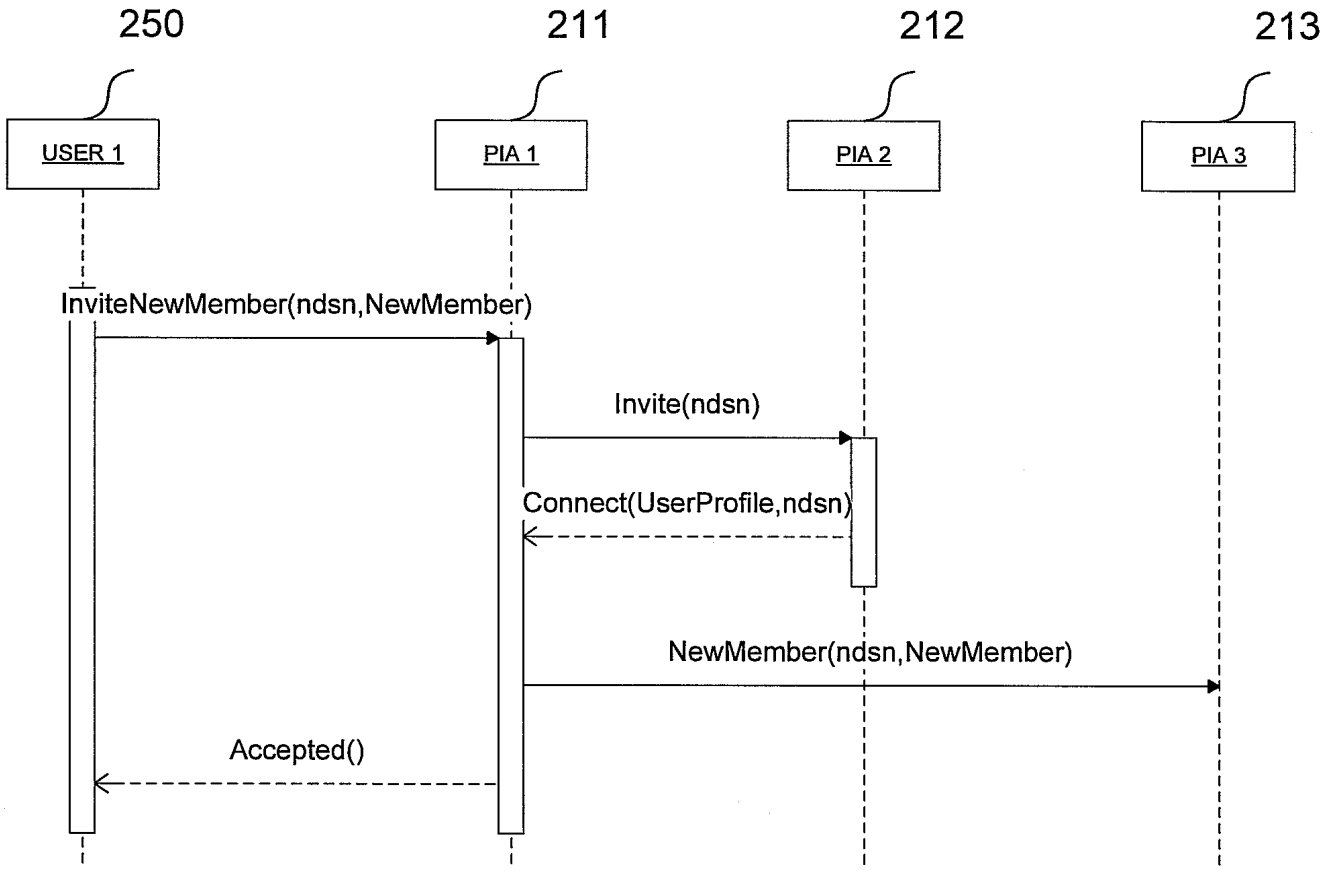

250
211
212
213
USER 1
PIA 1
PIA 2
PIA 3
InviteNewMember(ndsn,NewMember)
Invite(ndsn)
Connect(UserProfile,ndsn)
NewMember(ndsn,NewMember)
Accepted()

Fig. 16

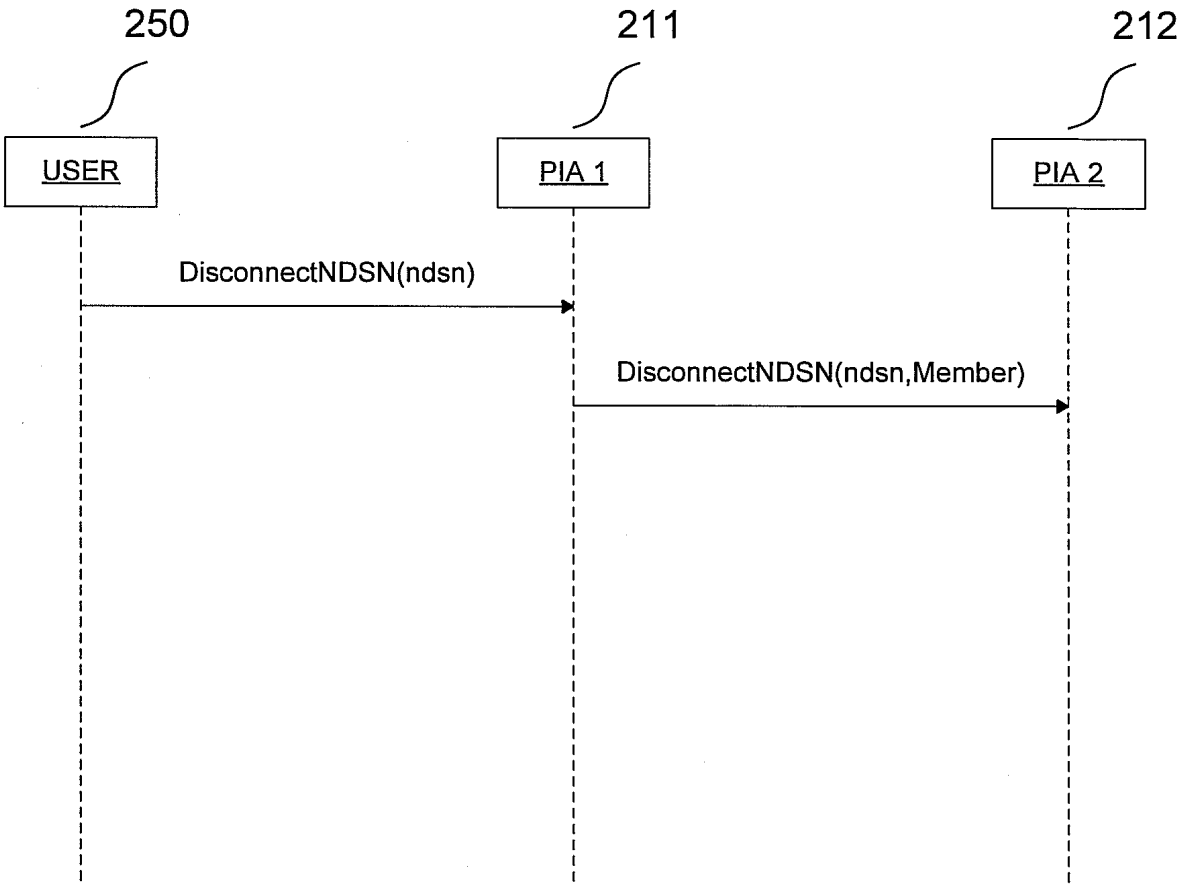

250
211
212
USER
PIA 1
PIA 2
DisconnectNDSN(ndsn)
DisconnectNDSN(ndsn,Member)

Fig. 17

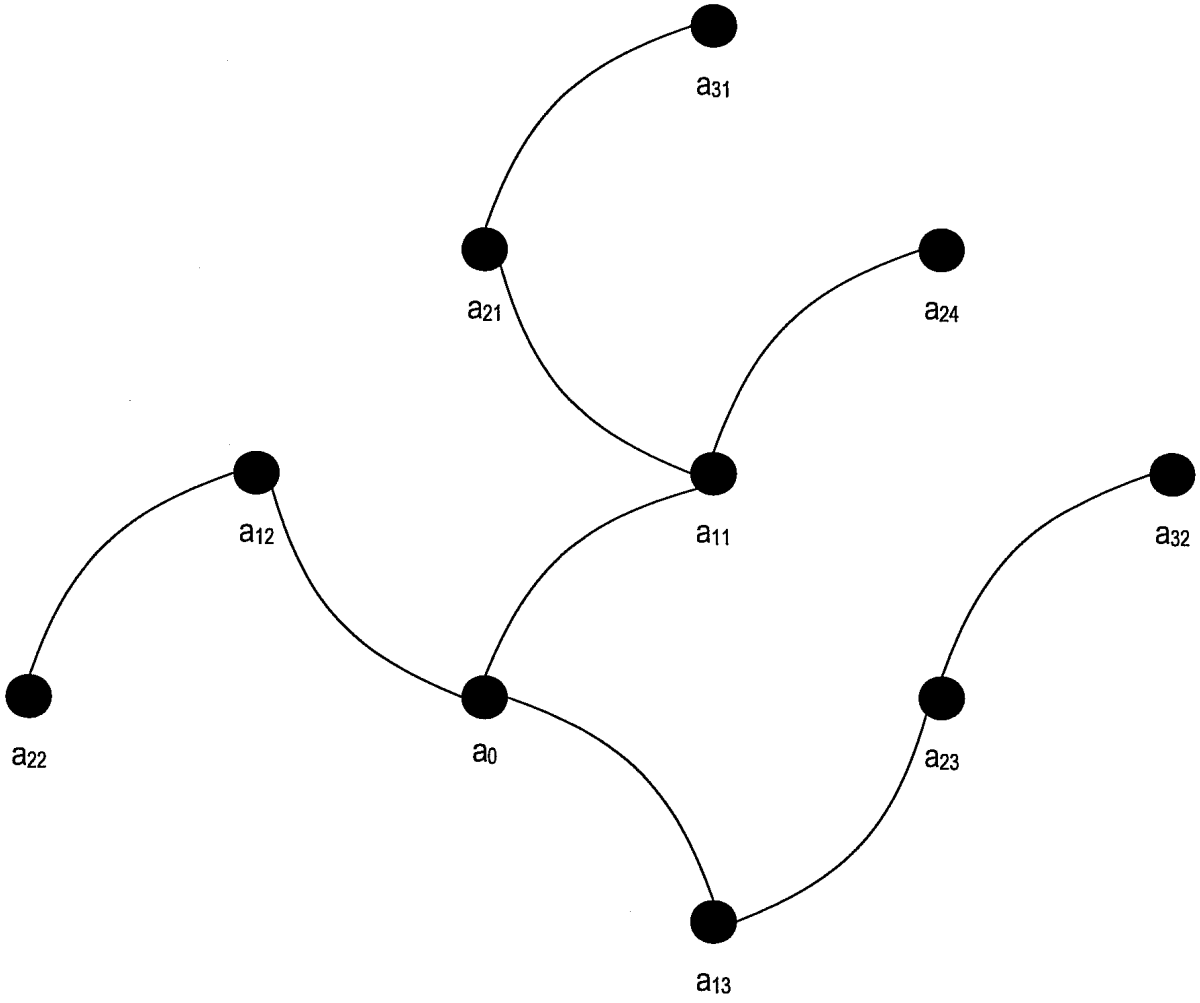


Fig. 18

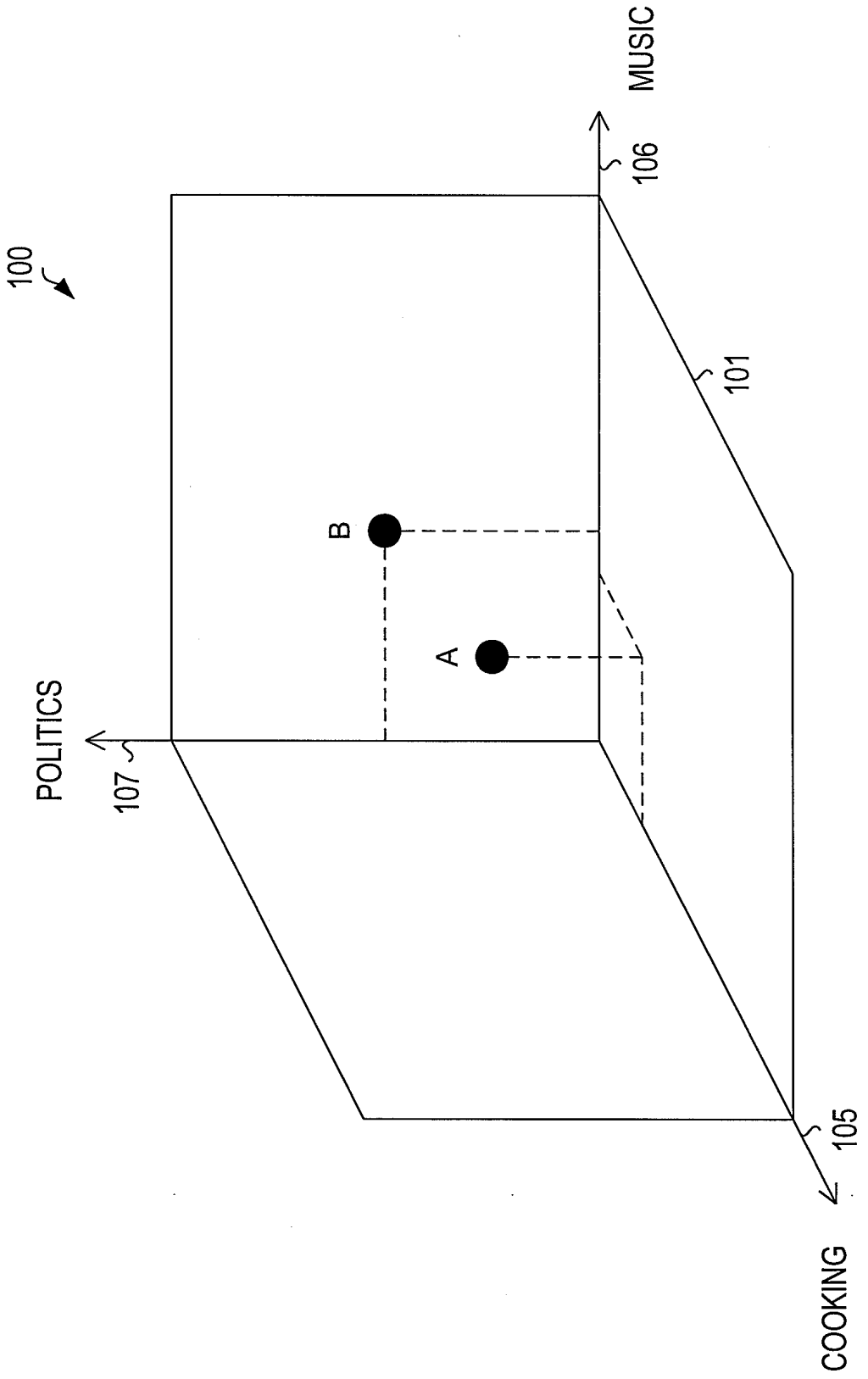


Fig. 19

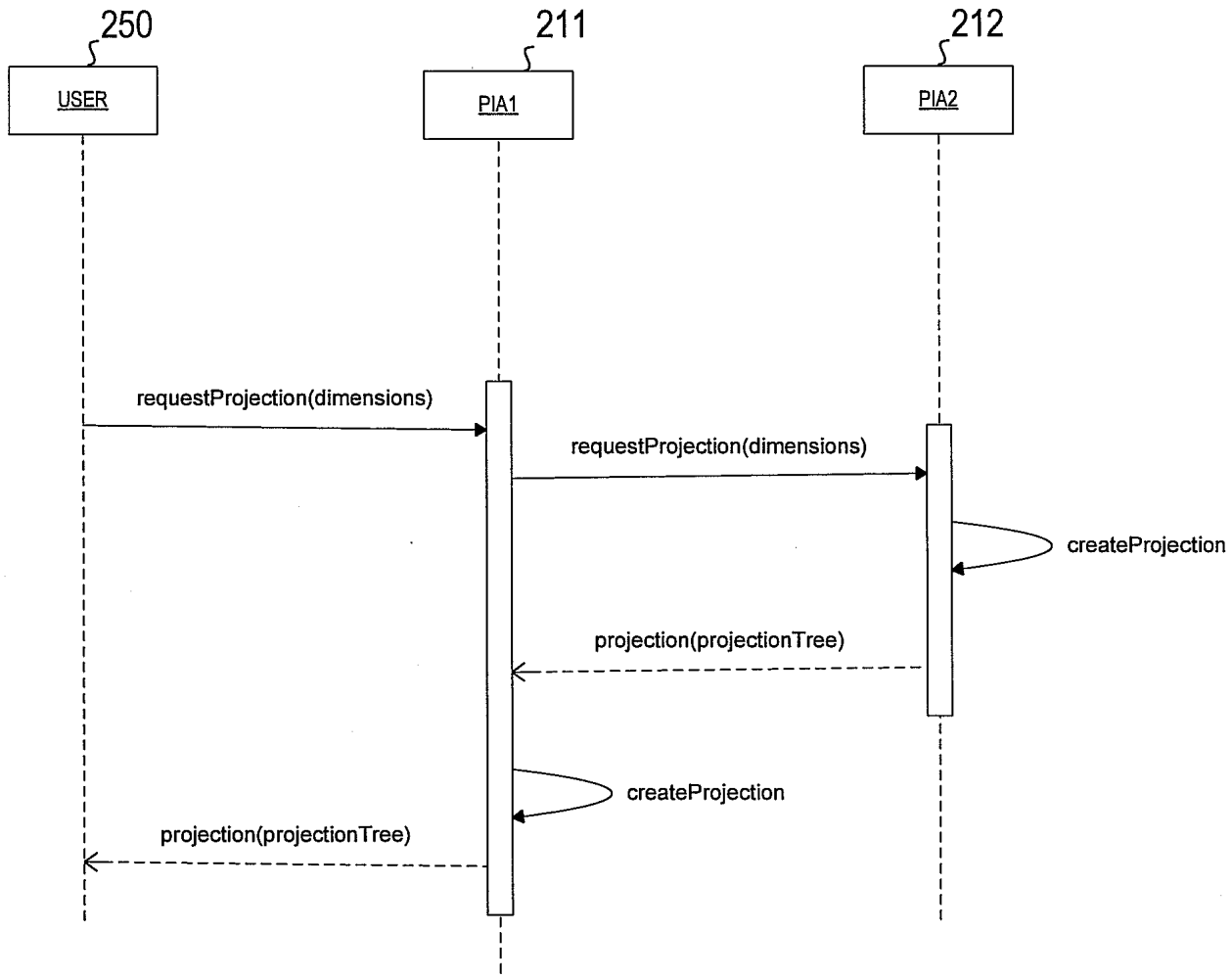

250
211
212
USER
PIA1
PIA2
requestProjection(dimensions)
requestProjection(dimensions)
createProjection
projection(projectionTree)
createProjection
projection(projectionTree)

Fig. 20

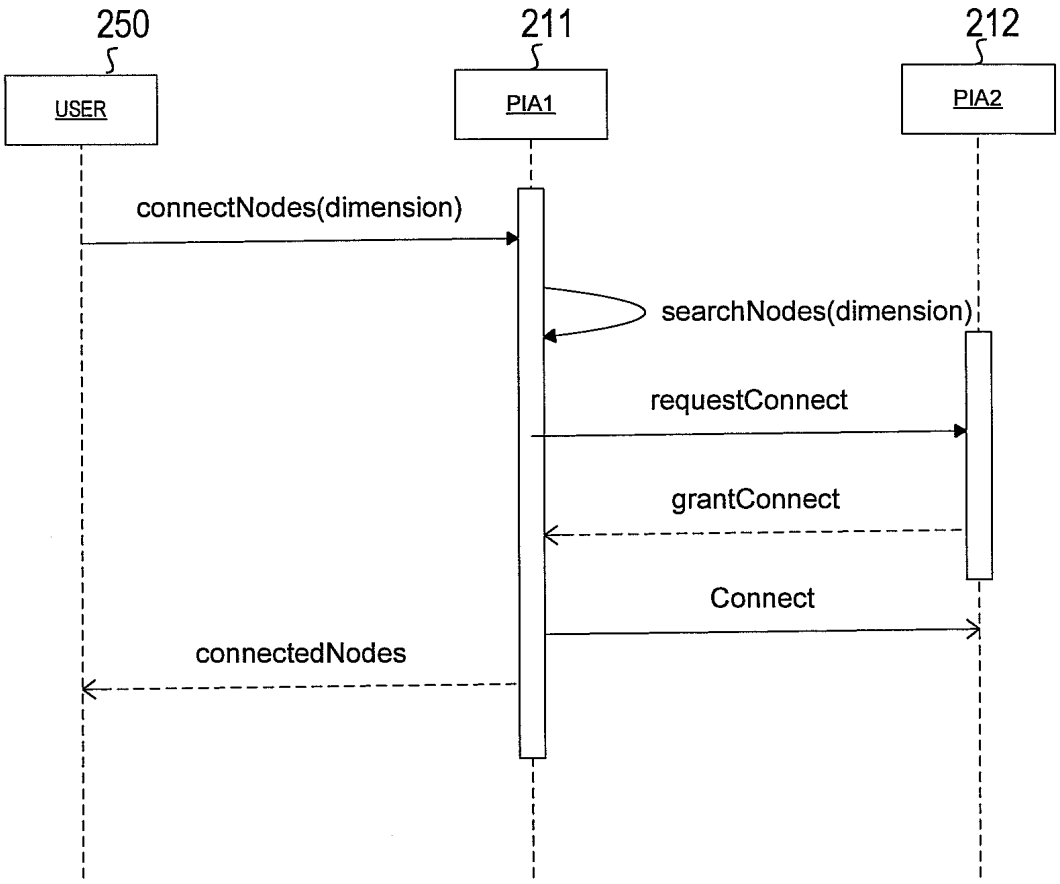

250
211
212
USER
PIA1
PIA2
connectNodes(dimension)
searchNodes(dimension)
requestConnect
grantConnect
Connect
connectedNodes

Fig. 21

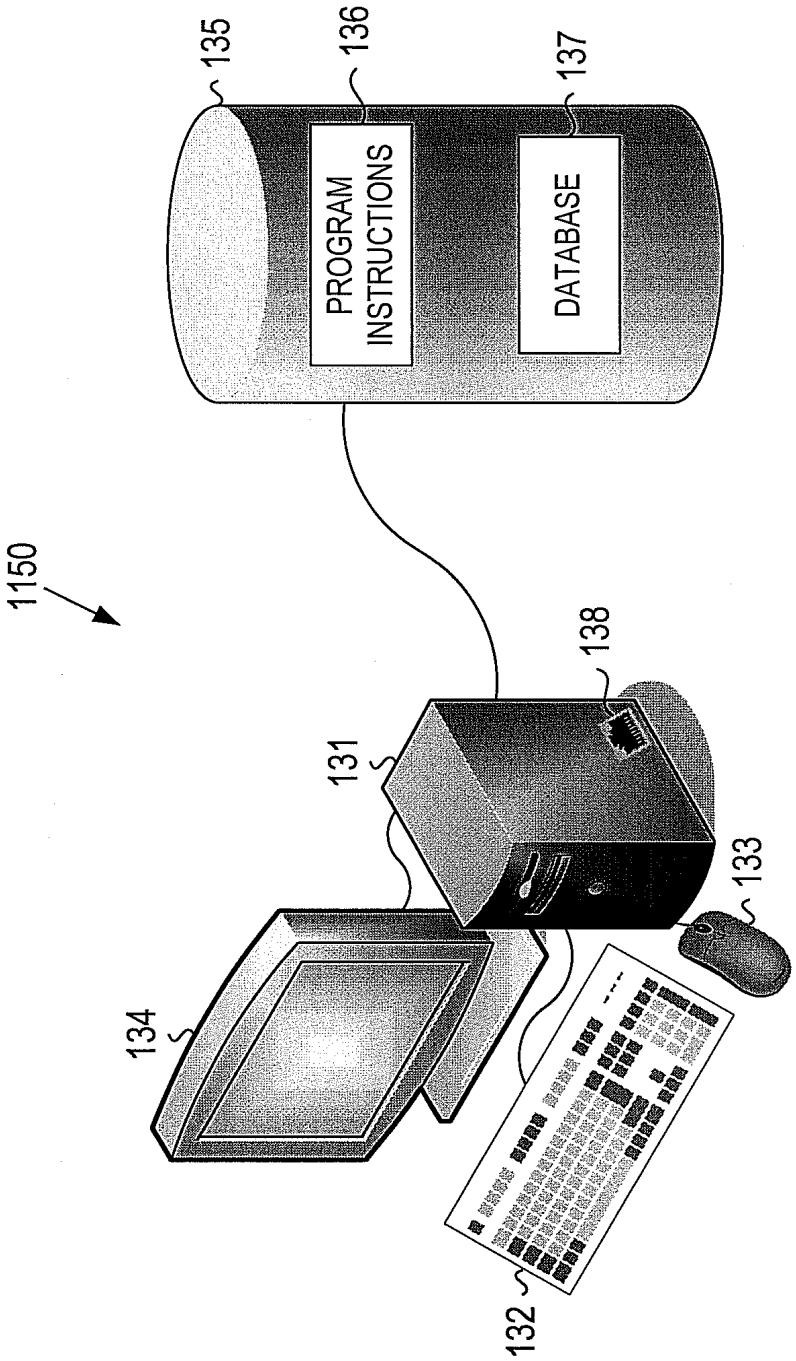

135
136
137
PROGRAM INSTRUCTIONS
DATABASE
1150
138
131
133
134
132

Fig. 22

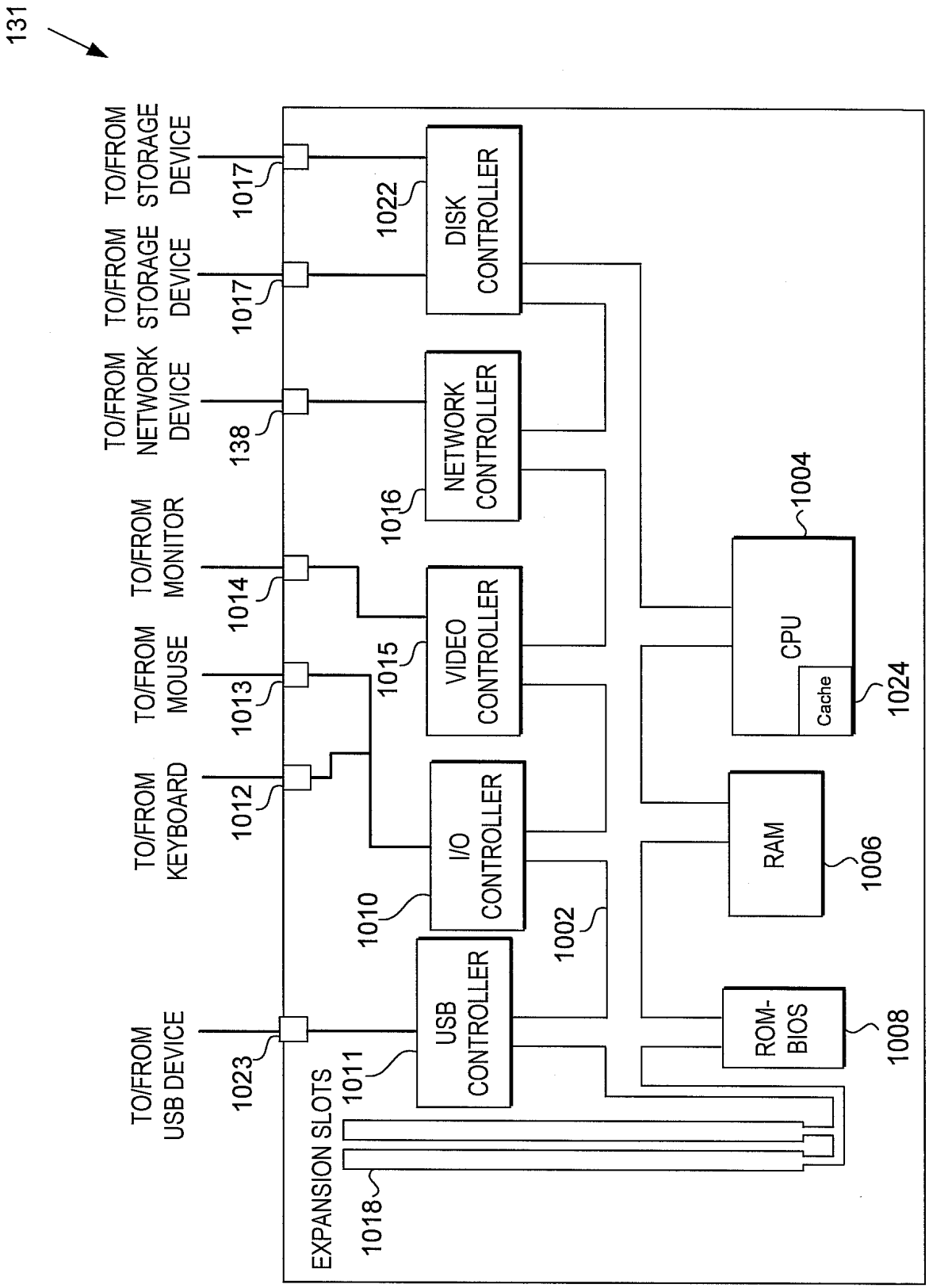

131
TO/FROM STORAGE DEVICE
1017
TO/FROM STORAGE DEVICE
1017
TO/FROM NETWORK DEVICE
138
TO/FROM MONITOR
1014
TO/FROM MOUSE
1013
TO/FROM KEYBOARD
1012
TO/FROM USB DEVICE
1023
1022
DISK CONTROLLER
NETWORK CONTROLLER
1016
VIDEO CONTROLLER
1015
I/O CONTROLLER
1010
USB CONTROLLER
1011
1002
EXPANSION SLOTS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

Fig. 23

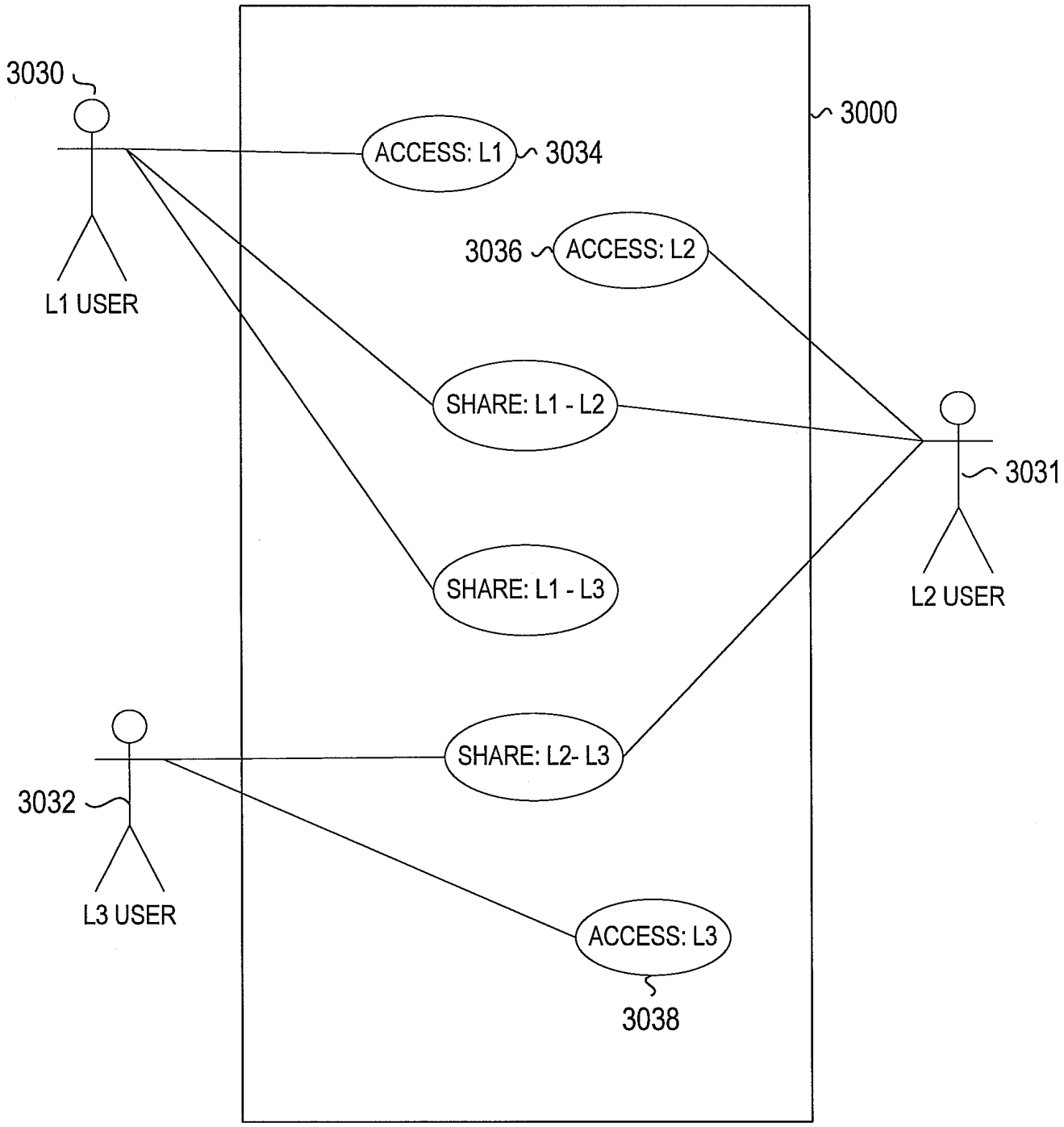
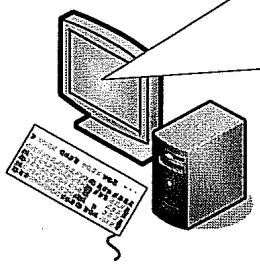

3030
L1 USER
3000
ACCESS: L1
3034
3036
ACCESS: L2
SHARE: L1 - L2
3031
L2 USER
SHARE: L1 - L3
SHARE: L2- L3
3032
L3 USER
ACCESS: L3
3038

Fig. 24

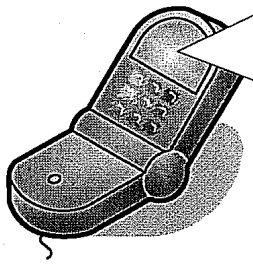


3060

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

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

[NOTIFY] 3068



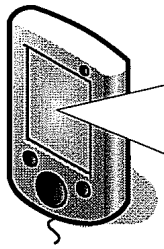
3062

(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

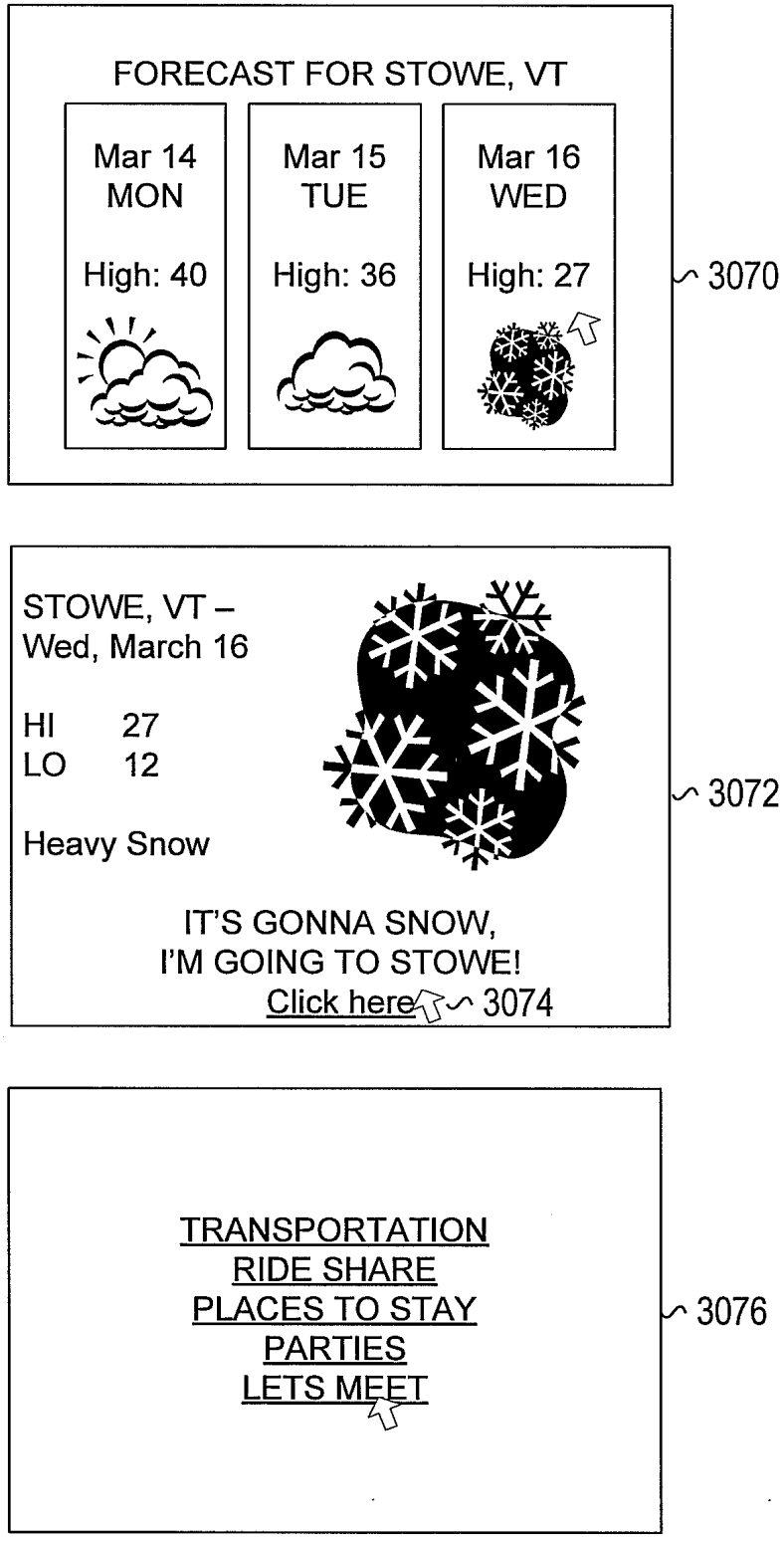

FORECAST FOR STOWE, VT
Mar 14
MON
High: 40
Mar 15
TUE
High: 36
Mar 16
WED
High: 27
3070
STOWE, VT –
Wed, March 16
HI 27
LO 12
Heavy Snow
3072
IT'S GONNA SNOW,
I'M GOING TO STOWE!
Click here
3074
TRANSPORTATION
RIDE SHARE
PLACES TO STAY
PARTIES
LETS MEET
3076

Fig. 26

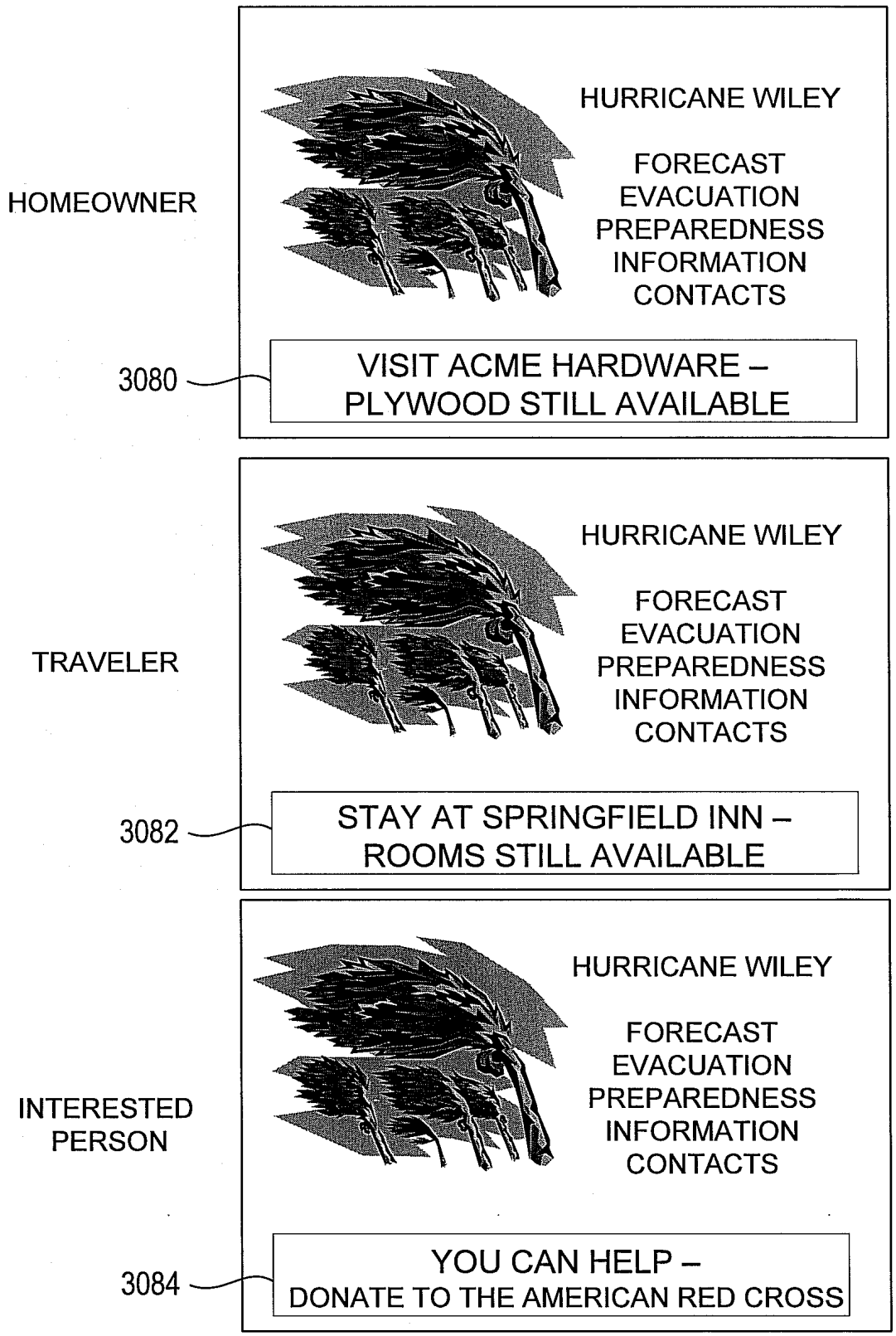
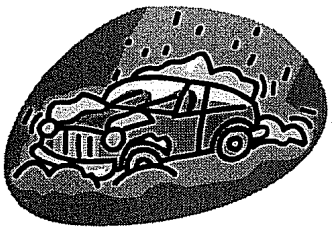

HOMEOWNER
HURRICANE WILEY
FORECAST
EVACUATION
PREPAREDNESS
INFORMATION
CONTACTS
3080
VISIT ACME HARDWARE –
PLYWOOD STILL AVAILABLE
TRAVELER
HURRICANE WILEY
FORECAST
EVACUATION
PREPAREDNESS
INFORMATION
CONTACTS
3082
STAY AT SPRINGFIELD INN –
ROOMS STILL AVAILABLE
INTERESTED
PERSON
HURRICANE WILEY
FORECAST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

Fig. 27



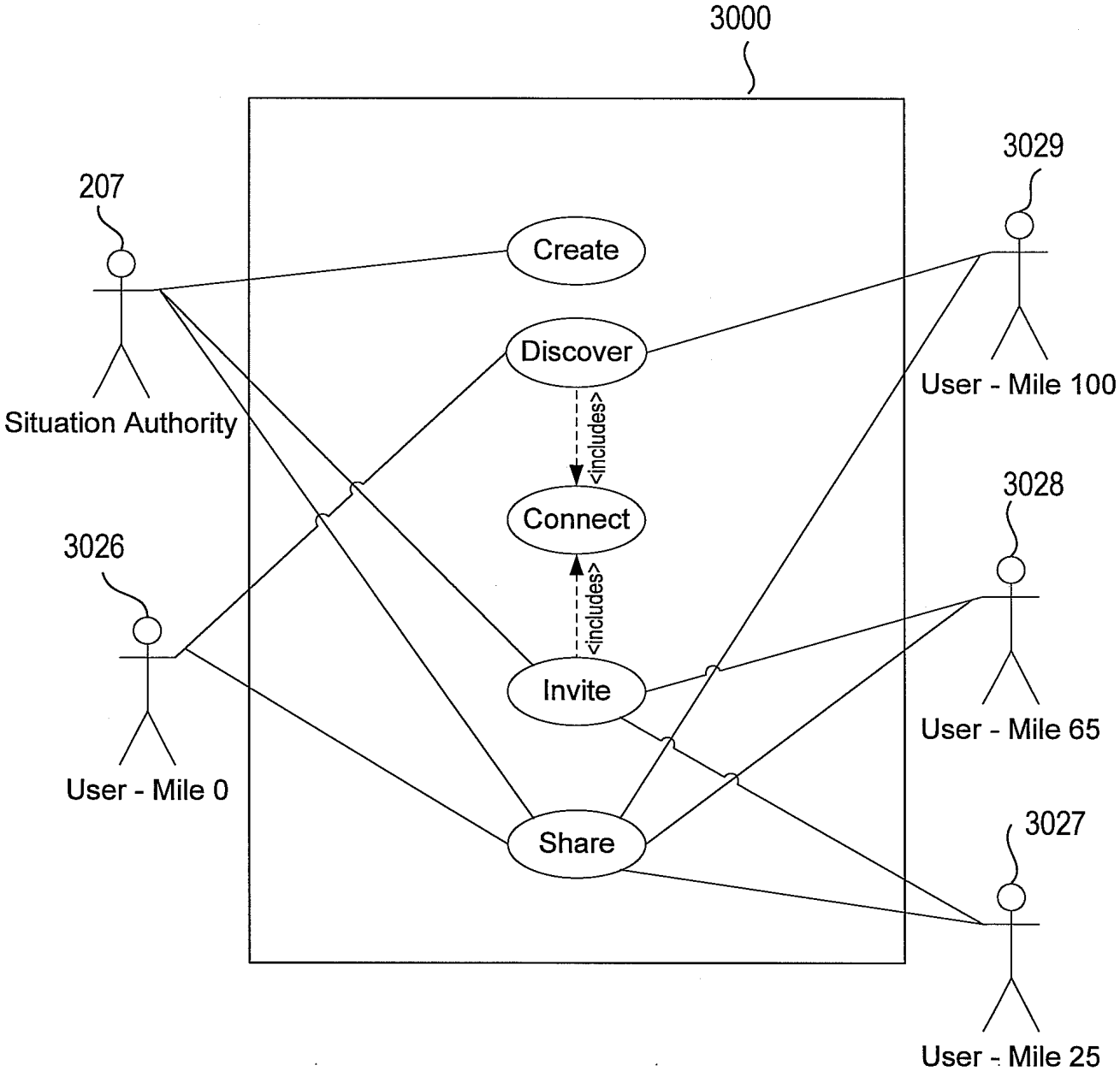

3005
3000
207
Situation Authority
Create
Discover
<includes>
Connect
<includes>
Invite
Share
3029
User - Mile 100
3028
User - Mile 65
3027
User - Mile 25
3026
User - Mile 0

Fig. 28

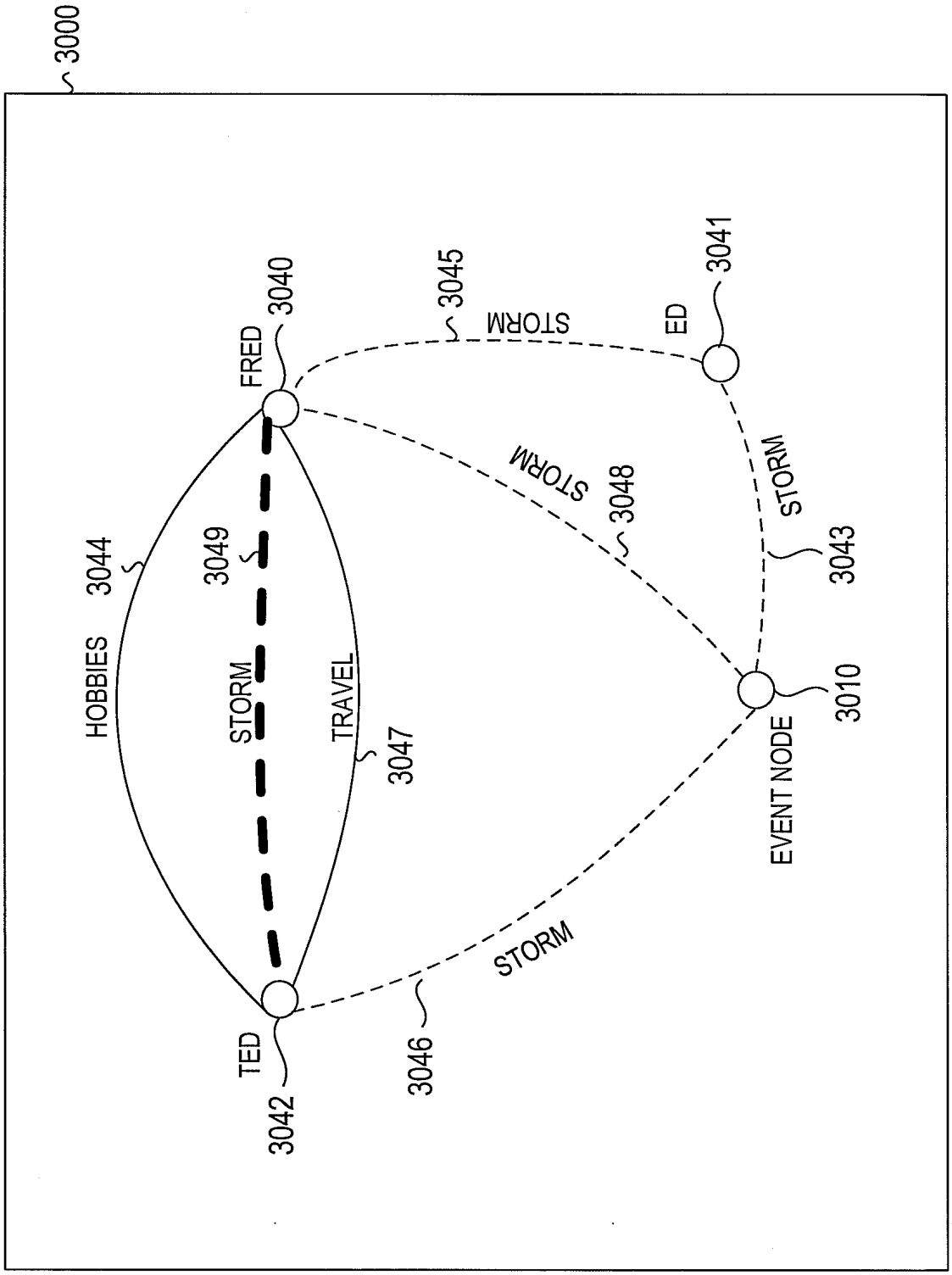

3000
FRED
3040
3045
STORM
ED
3041
STORM
3048
STORM
3043
HOBBIES
3044
3049
STORM
TRAVEL
3047
EVENT NODE
3010
TED
3042
3046
STORM

Fig. 29

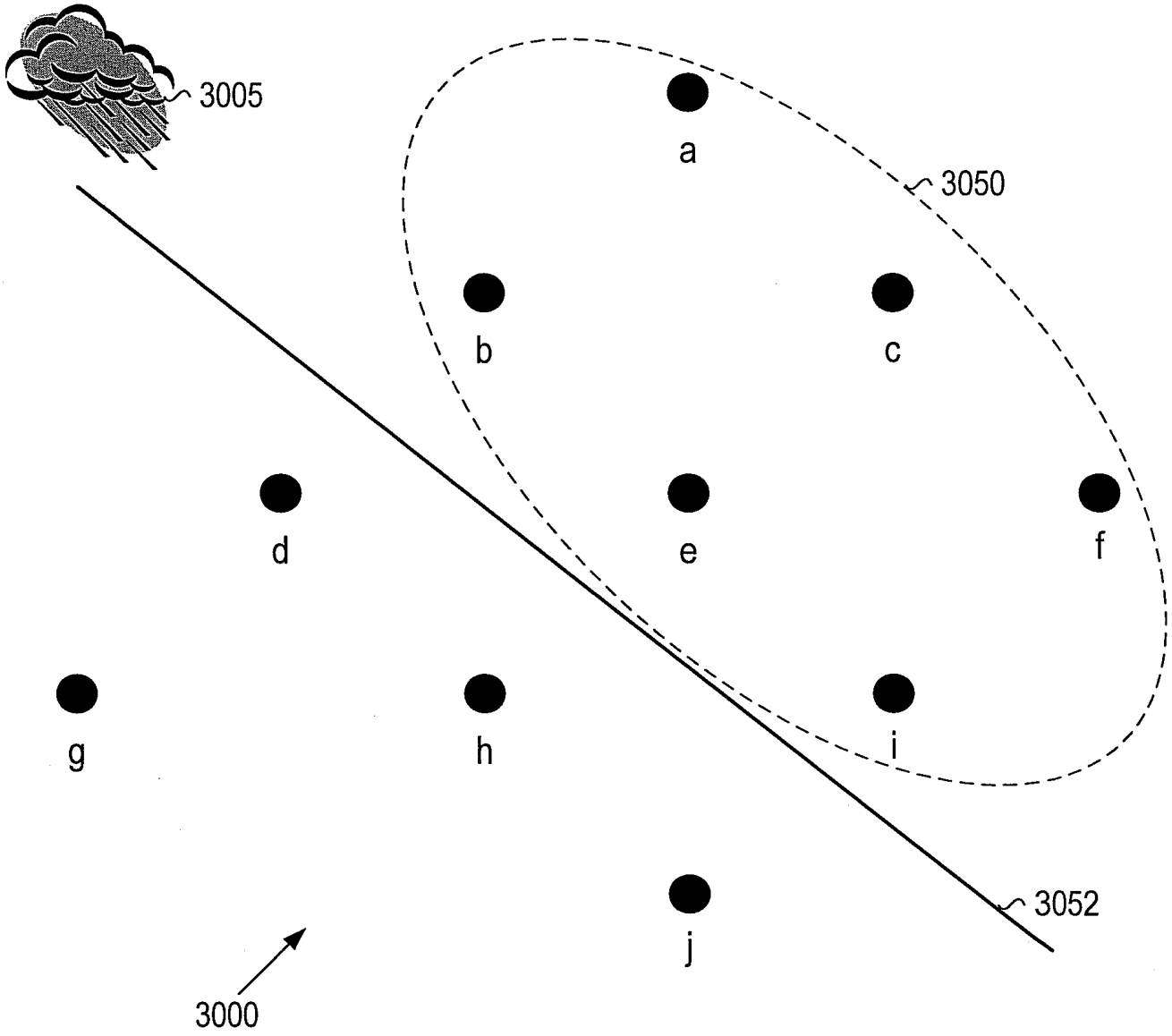


Fig. 30

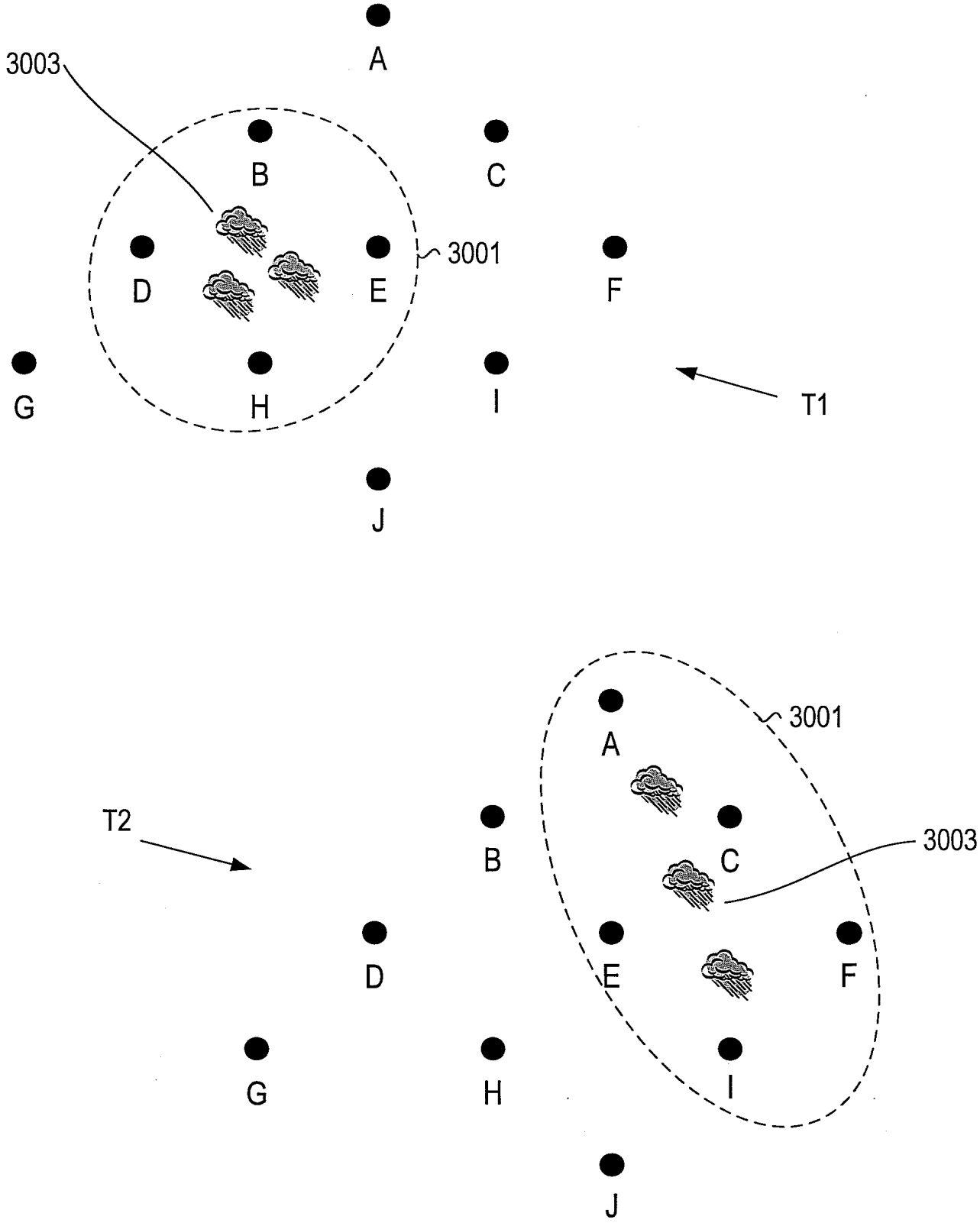


Fig. 31

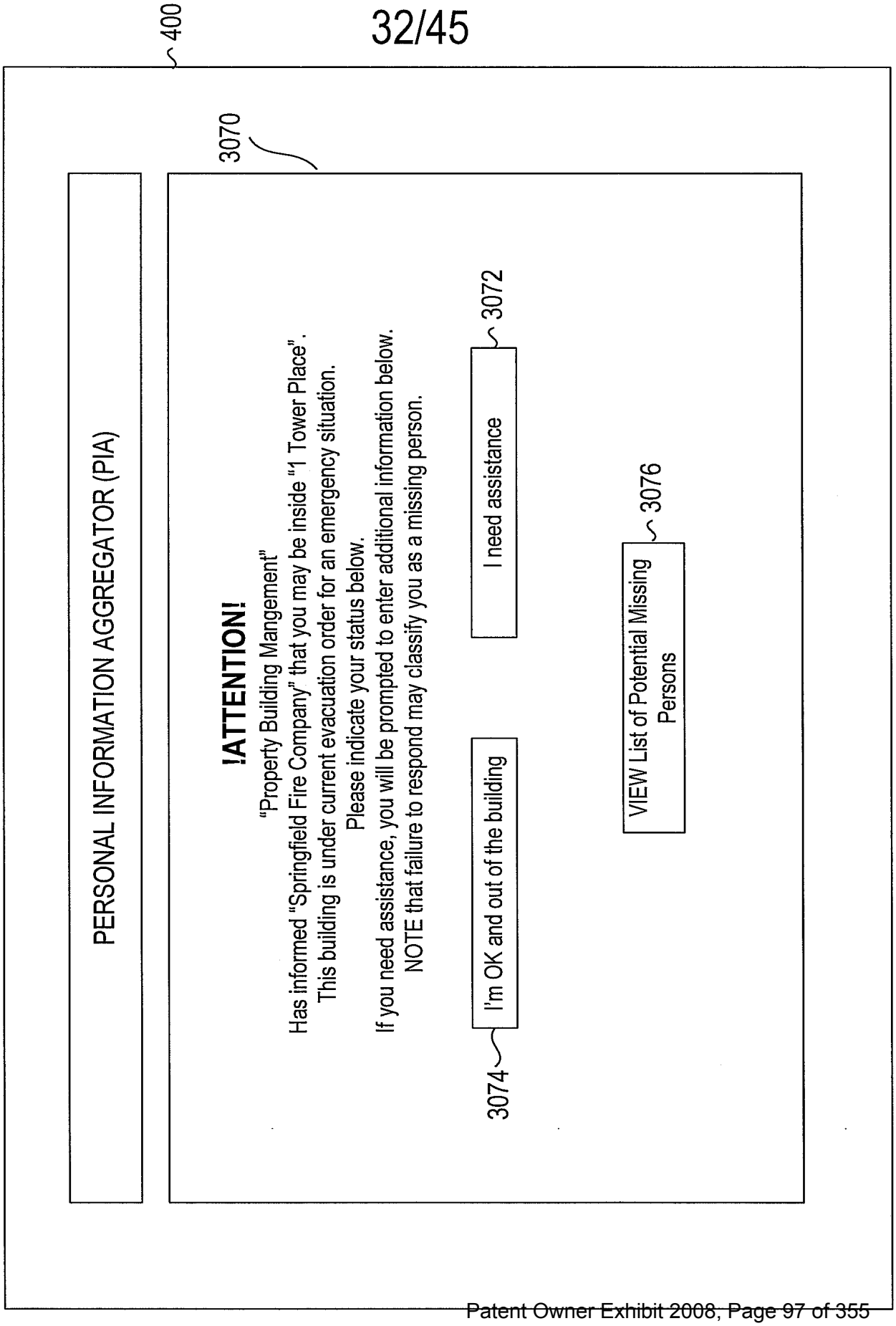

400
PERSONAL INFORMATION AGGREGATOR (PIA)
3070
!ATTENTION!
"Property Building Mangement"
Has informed "Springfield Fire Company" that you may be inside "1 Tower Place".
This building is under current evacuation order for an emergency situation.
Please indicate your status below.
If you need assistance, you will be prompted to enter additional information below.
NOTE that failure to respond may classify you as a missing person.
3072
I need assistance
3074
I'm OK and out of the building
3076
VIEW List of Potential Missing Persons

Fig. 32

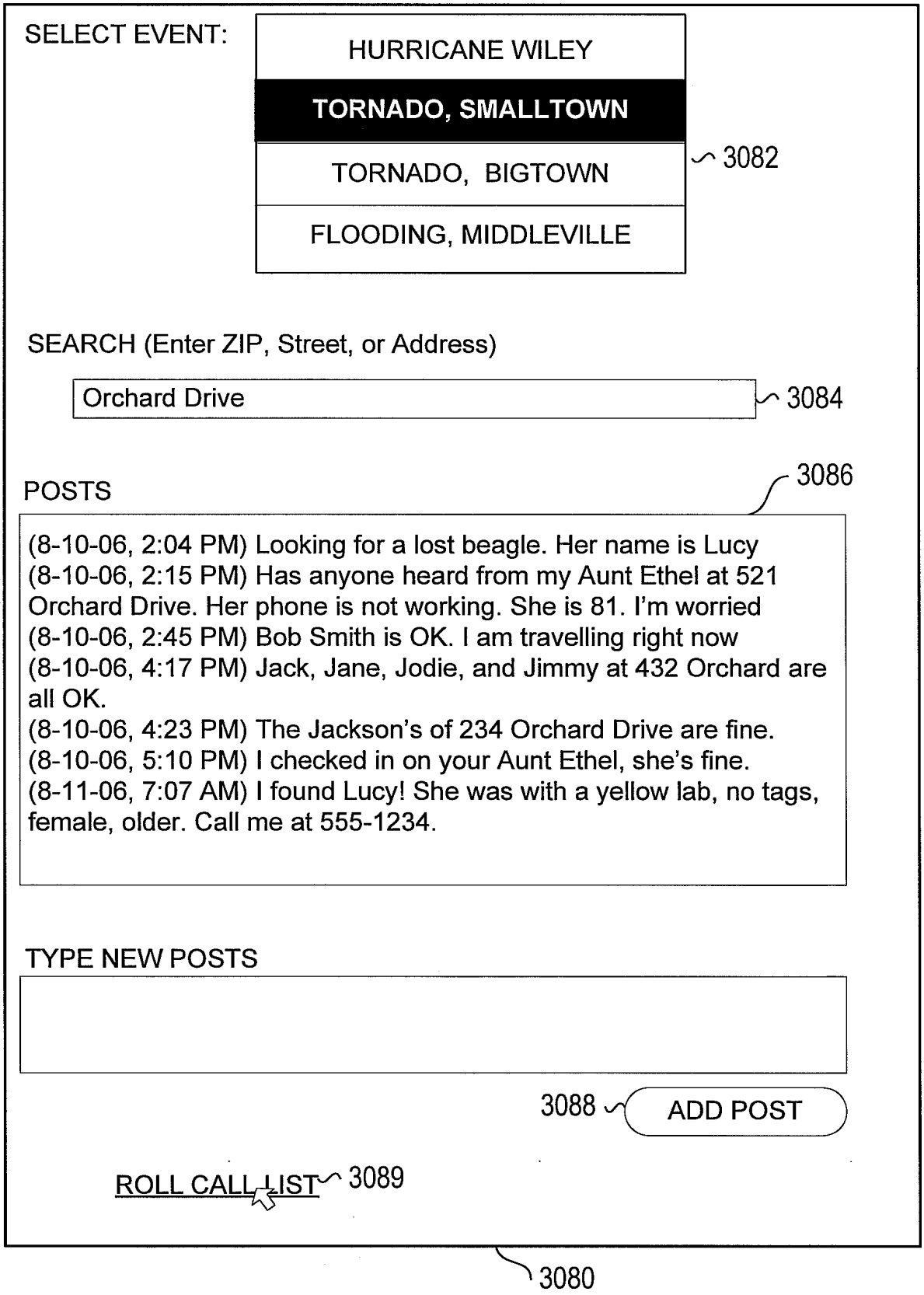

SELECT EVENT:
HURRICANE WILEY
TORNADO, SMALLTOWN
TORNADO, BIGTOWN
FLOODING, MIDDLEVILLE
3082
SEARCH (Enter ZIP, Street, or Address)
Orchard Drive
3084
POSTS
3086
(8-10-06, 2:04 PM) Looking for a lost beagle. Her name is Lucy
(8-10-06, 2:15 PM) Has anyone heard from my Aunt Ethel at 521 Orchard Drive. 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

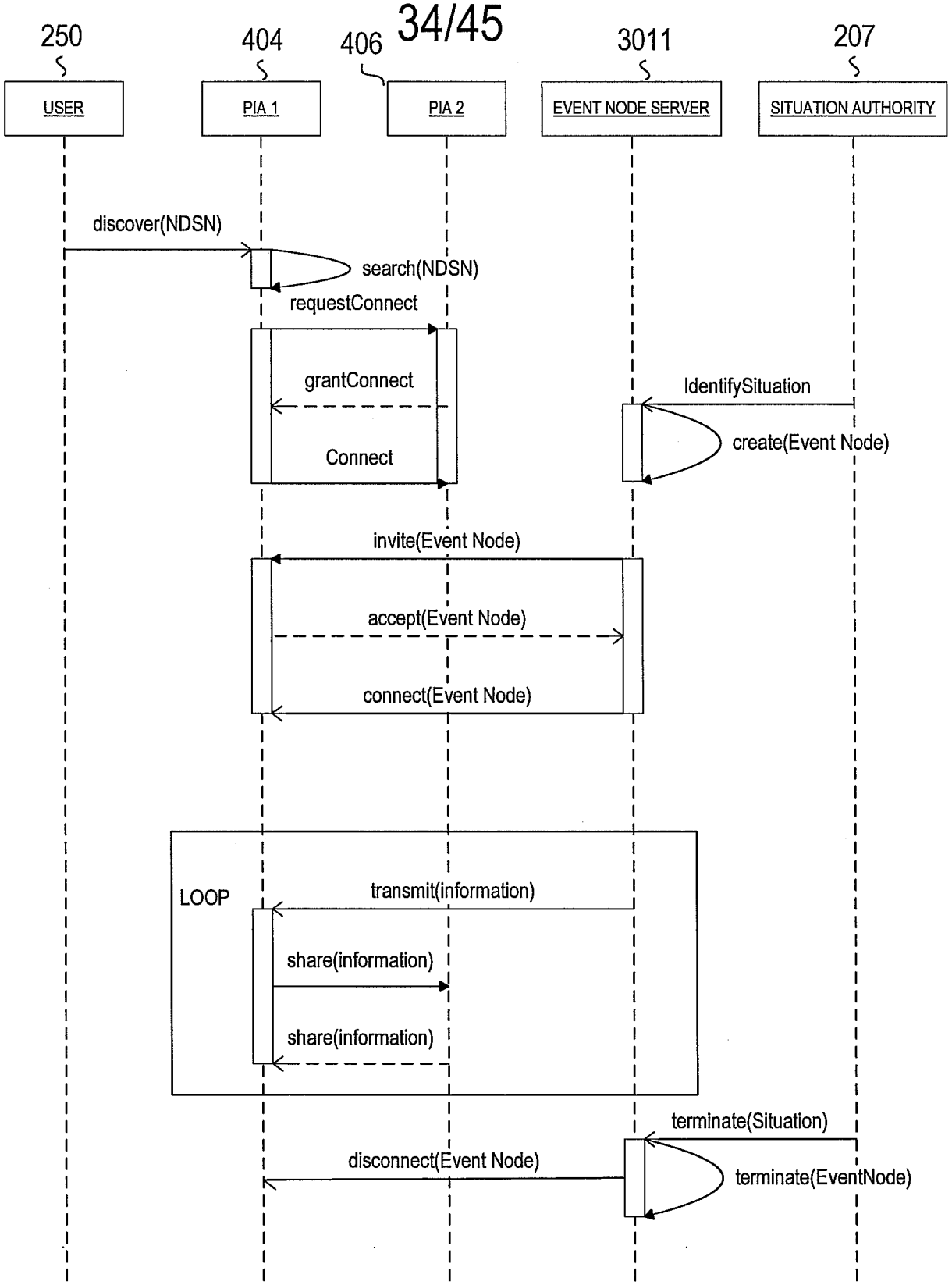

250
404
406
3011
207
USER
PIA 1
PIA 2
EVENT NODE SERVER
SITUATION AUTHORITY
discover(NDSN)
search(NDSN)
requestConnect
grantConnect
Connect
IdentifySituation
create(Event Node)
invite(Event Node)
accept(Event Node)
connect(Event Node)
LOOP
transmit(information)
share(information)
share(information)
terminate(Situation)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

Fig. 34

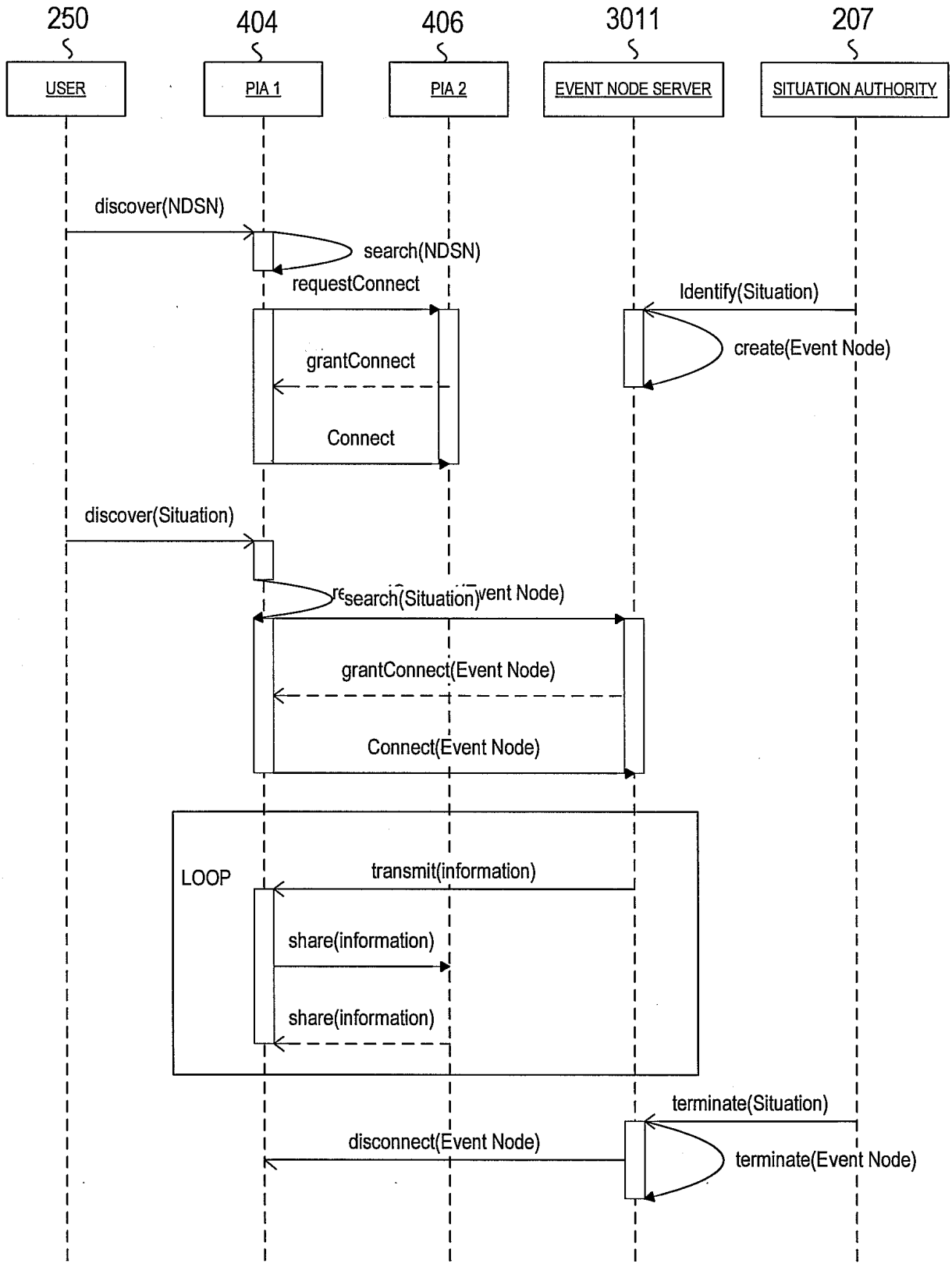

250
404
406
3011
207
USER
PIA 1
PIA 2
EVENT NODE SERVER
SITUATION AUTHORITY
discover(NDSN)
search(NDSN)
requestConnect
Identify(Situation)
create(Event Node)
grantConnect
Connect
discover(Situation)
research(Situation)vent Node)
grantConnect(Event Node)
Connect(Event Node)
LOOP
transmit(information)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

Fig. 35

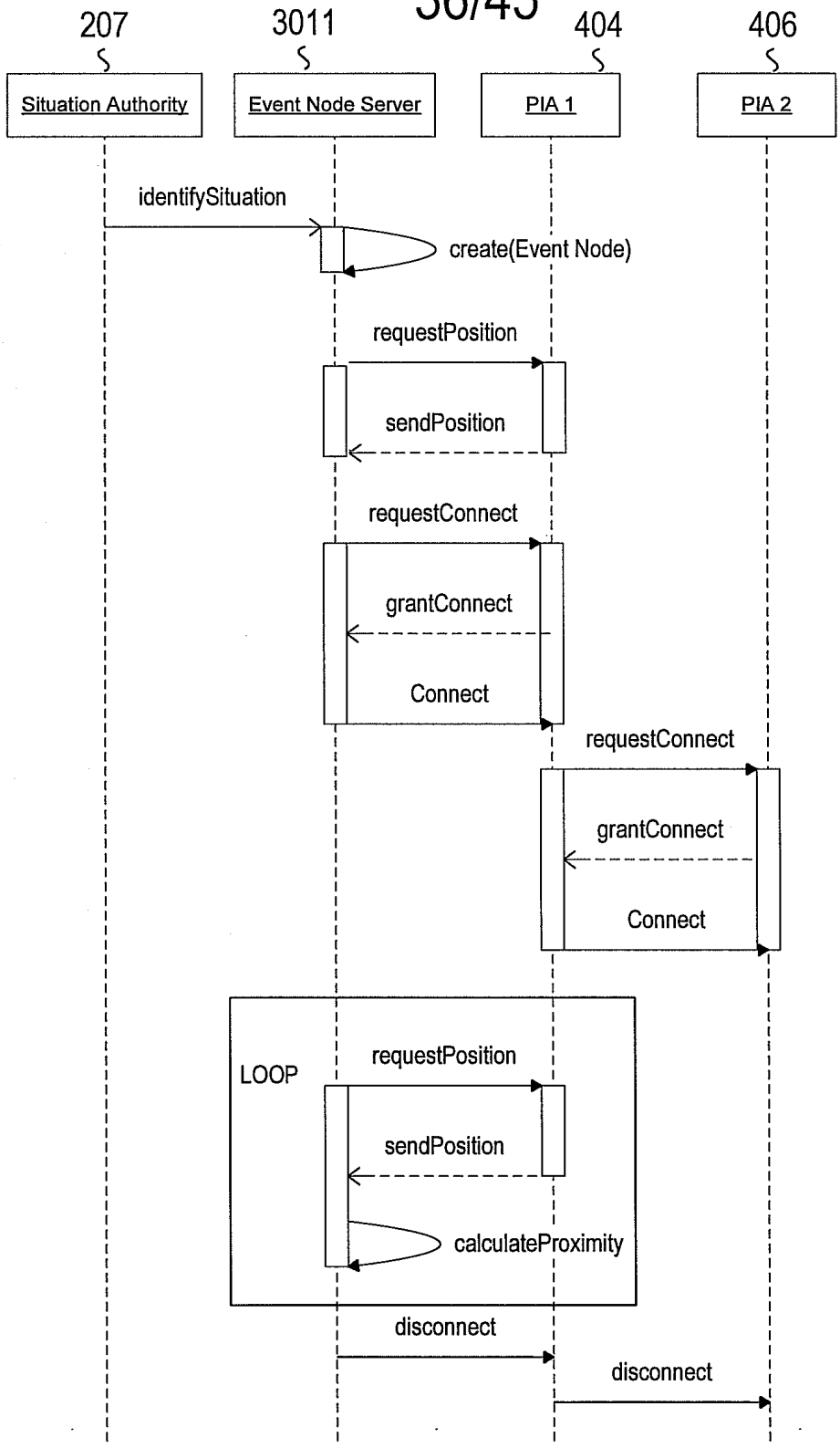

207
3011
404
406
Situation Authority
Event Node Server
PIA 1
PIA 2
identifySituation
create(Event Node)
requestPosition
sendPosition
requestConnect
grantConnect
Connect
requestConnect
grantConnect
Connect
LOOP
requestPosition
sendPosition
calculateProximity
disconnect
disconnect

Fig. 36

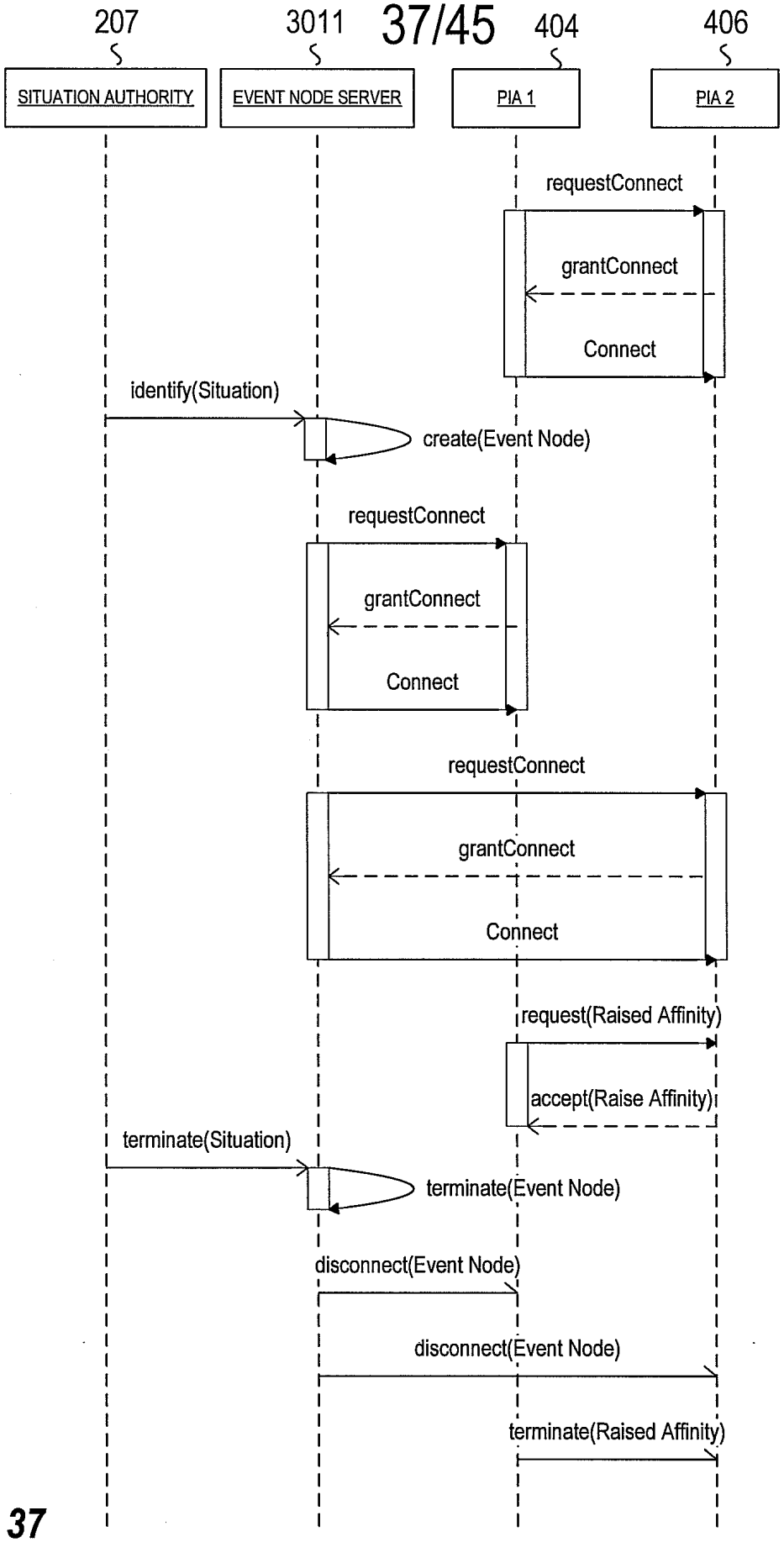

207
3011
404
406
SITUATION AUTHORITY
EVENT NODE SERVER
PIA 1
PIA 2
requestConnect
grantConnect
Connect
identify(Situation)
create(Event Node)
requestConnect
grantConnect
Connect
requestConnect
grantConnect
Connect
request(Raised Affinity)
accept(Raise Affinity)
terminate(Situation)
terminate(Event Node)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

Fig. 37

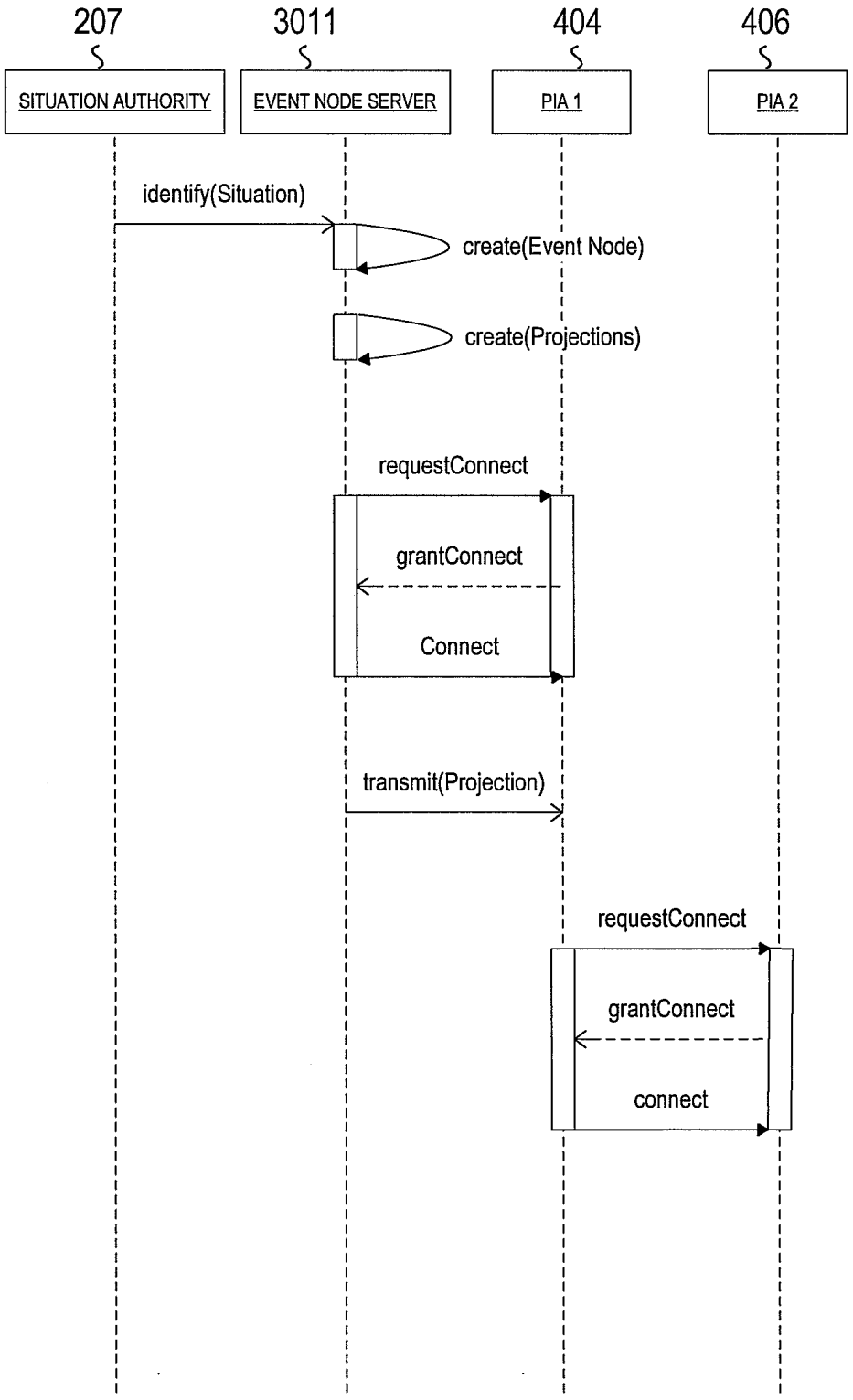

207
3011
404
406
SITUATION AUTHORITY
EVENT NODE SERVER
PIA 1
PIA 2
identify(Situation)
create(Event Node)
create(Projections)
requestConnect
grantConnect
Connect
transmit(Projection)
requestConnect
grantConnect
connect

Fig. 38

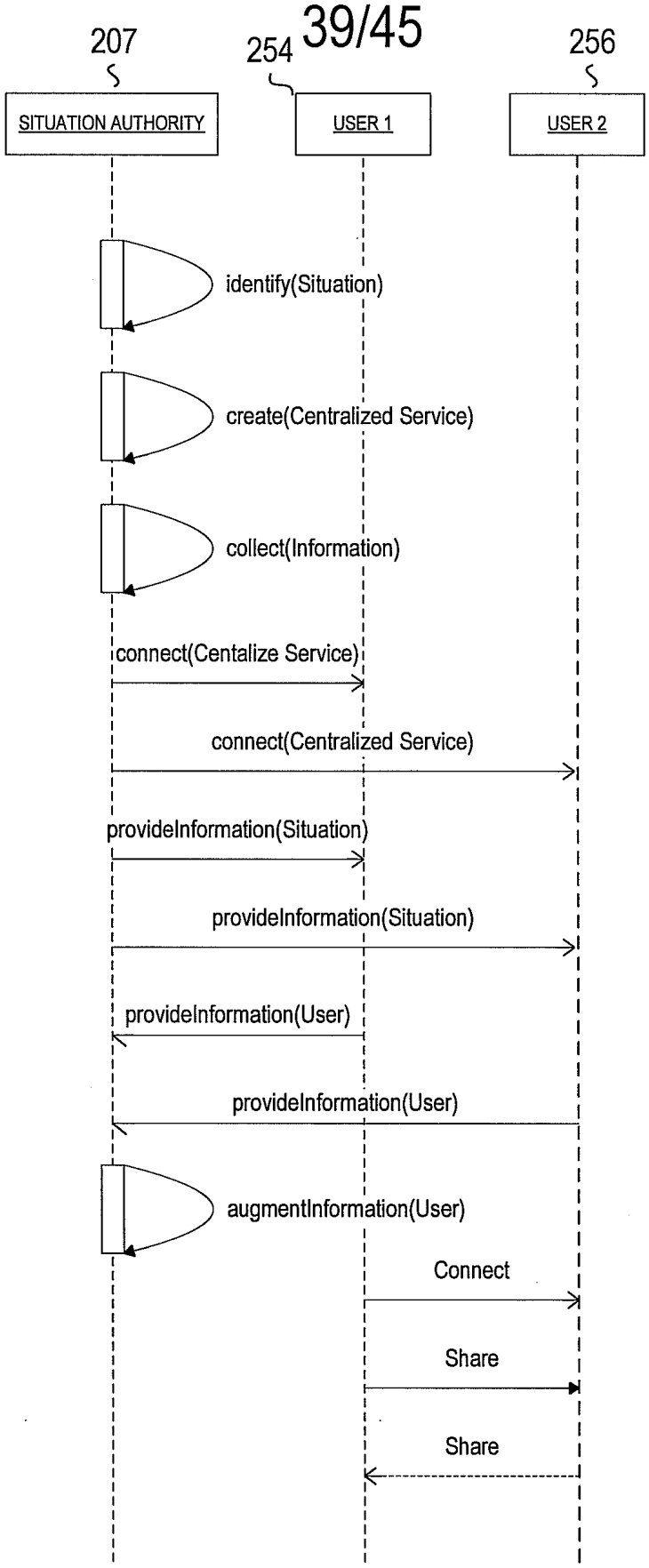

207
254
256
SITUATION AUTHORITY
USER 1
USER 2
identify(Situation)
create(Centralized Service)
collect(Information)
connect(Centalize Service)
connect(Centralized Service)
provideInformation(Situation)
provideInformation(Situation)
provideInformation(User)
provideInformation(User)
augmentInformation(User)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

Fig. 39

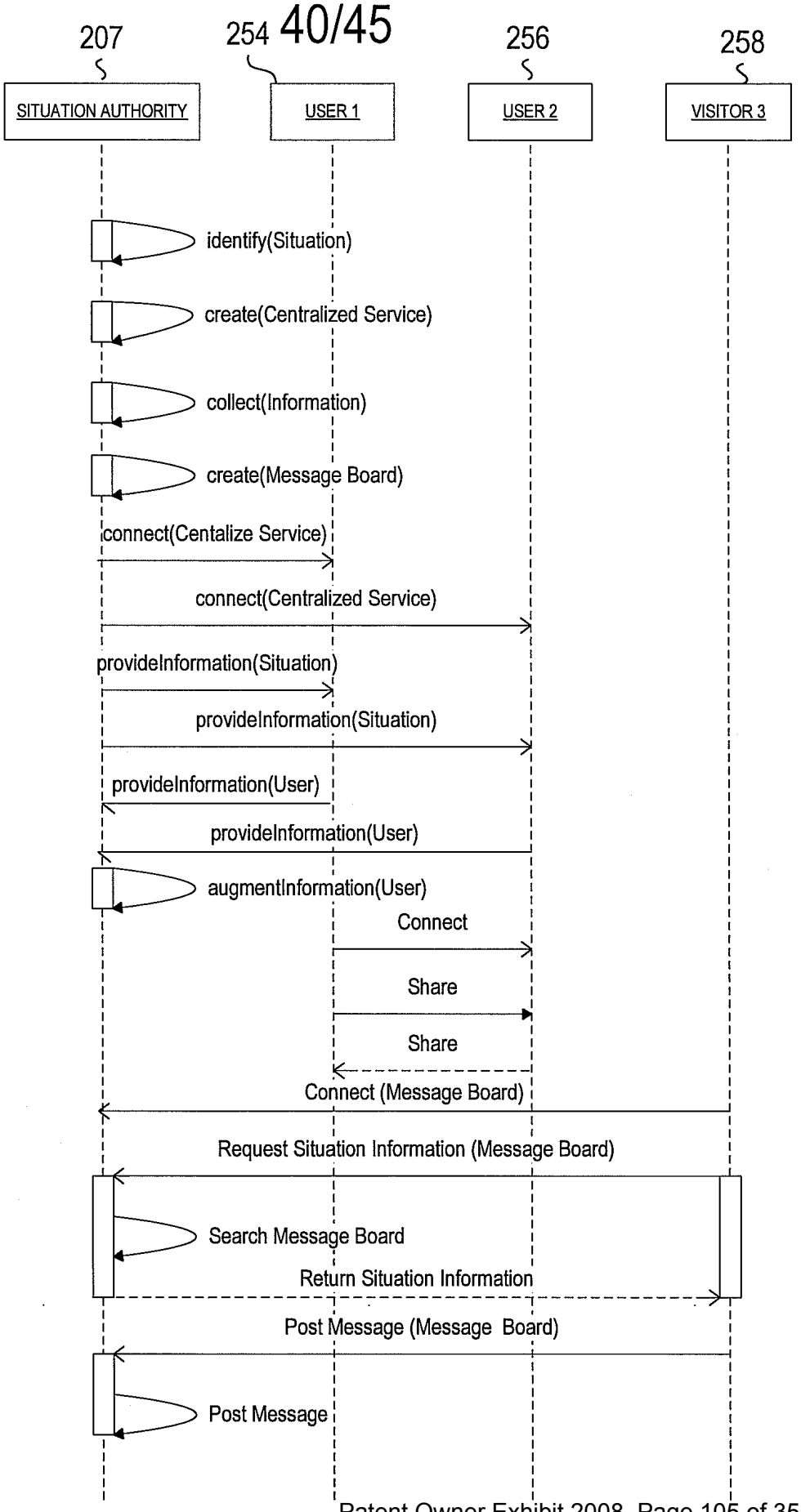

207
254
256
258
SITUATION AUTHORITY
USER 1
USER 2
VISITOR 3
identify(Situation)
create(Centralized Service)
collect(Information)
create(Message Board)
connect(Centalize Service)
connect(Centralized Service)
provideInformation(Situation)
provideInformation(Situation)
provideInformation(User)
provideInformation(User)
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

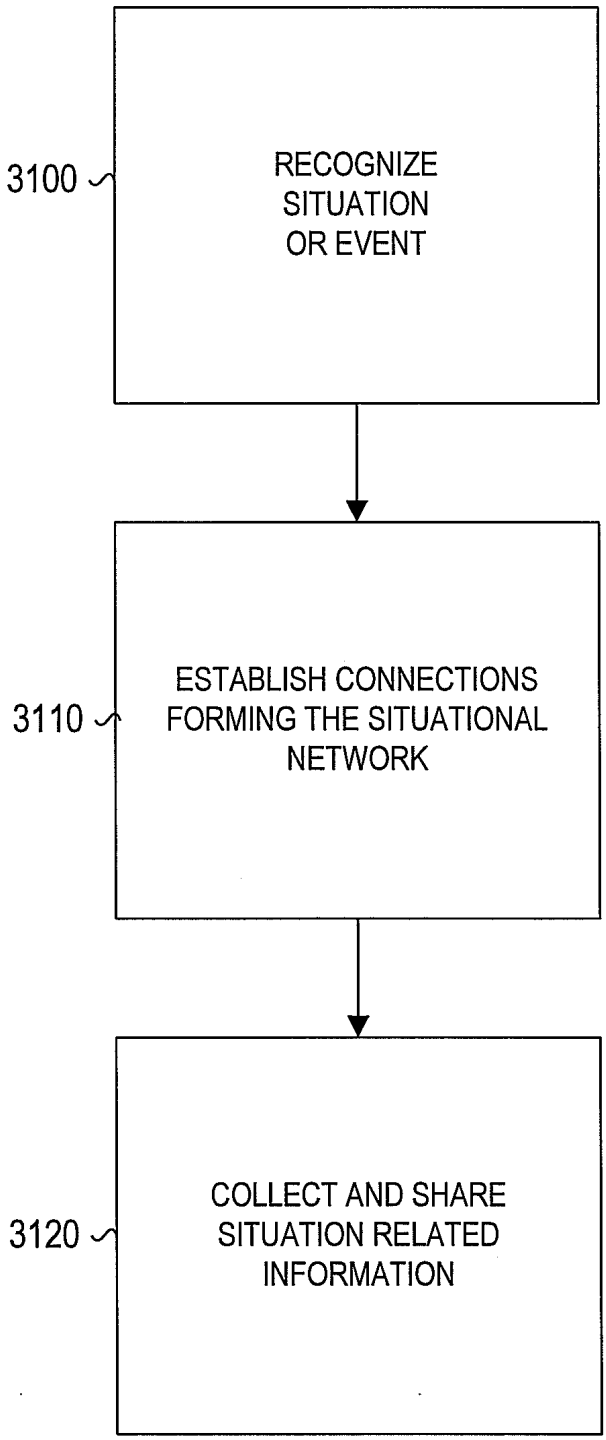

3100
RECOGNIZE SITUATION OR EVENT
3110
ESTABLISH CONNECTIONS FORMING THE SITUATIONAL NETWORK
3120
COLLECT AND SHARE SITUATION RELATED INFORMATION

Fig. 41

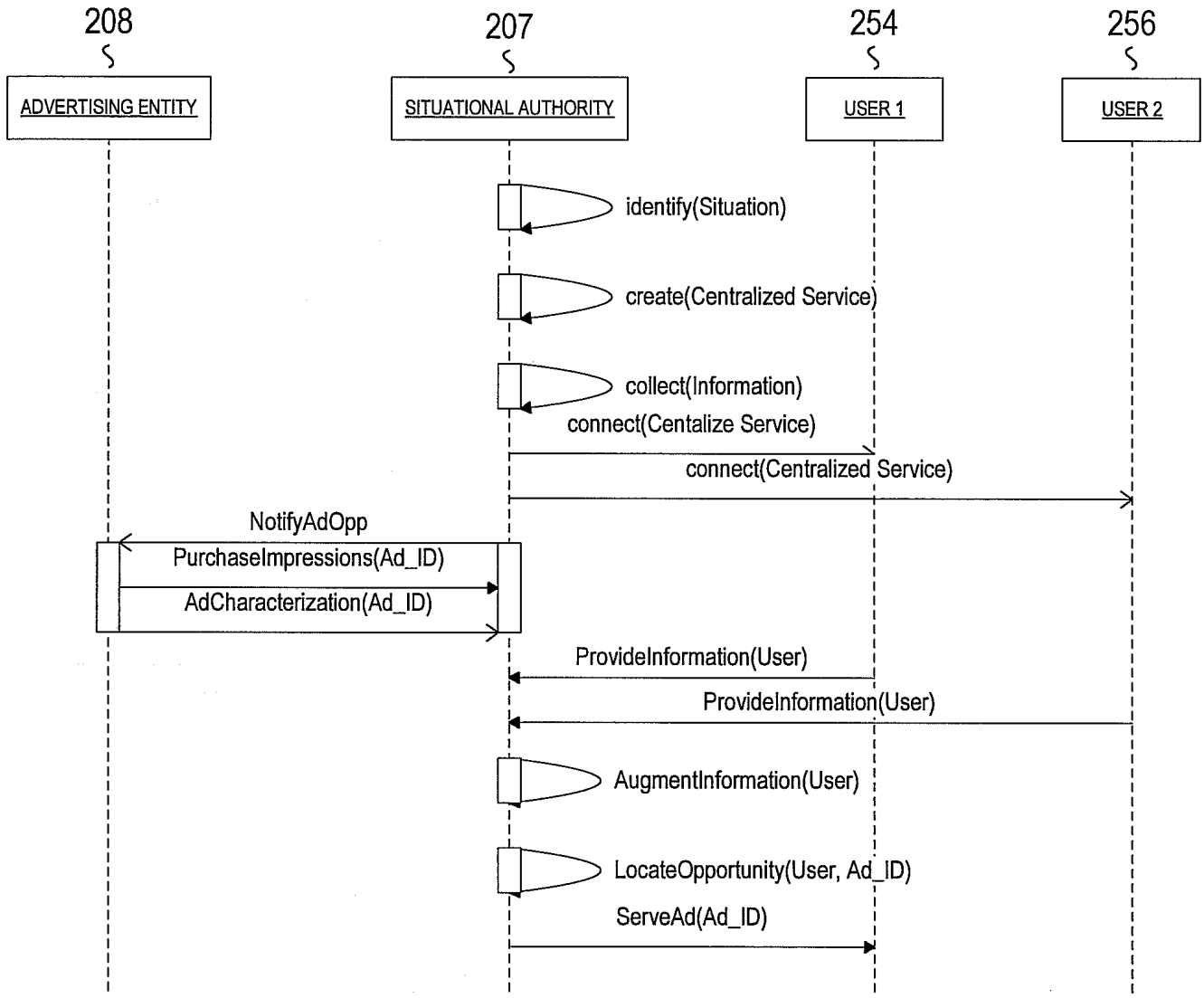

208
207
254
256
ADVERTISING ENTITY
SITUATIONAL AUTHORITY
USER 1
USER 2
identify(Situation)
create(Centralized Service)
collect(Information)
connect(Centalize Service)
connect(Centralized Service)
NotifyAdOpp
PurchaseImpressions(Ad_ID)
AdCharacterization(Ad_ID)
ProvideInformation(User)
ProvideInformation(User)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

Fig. 42

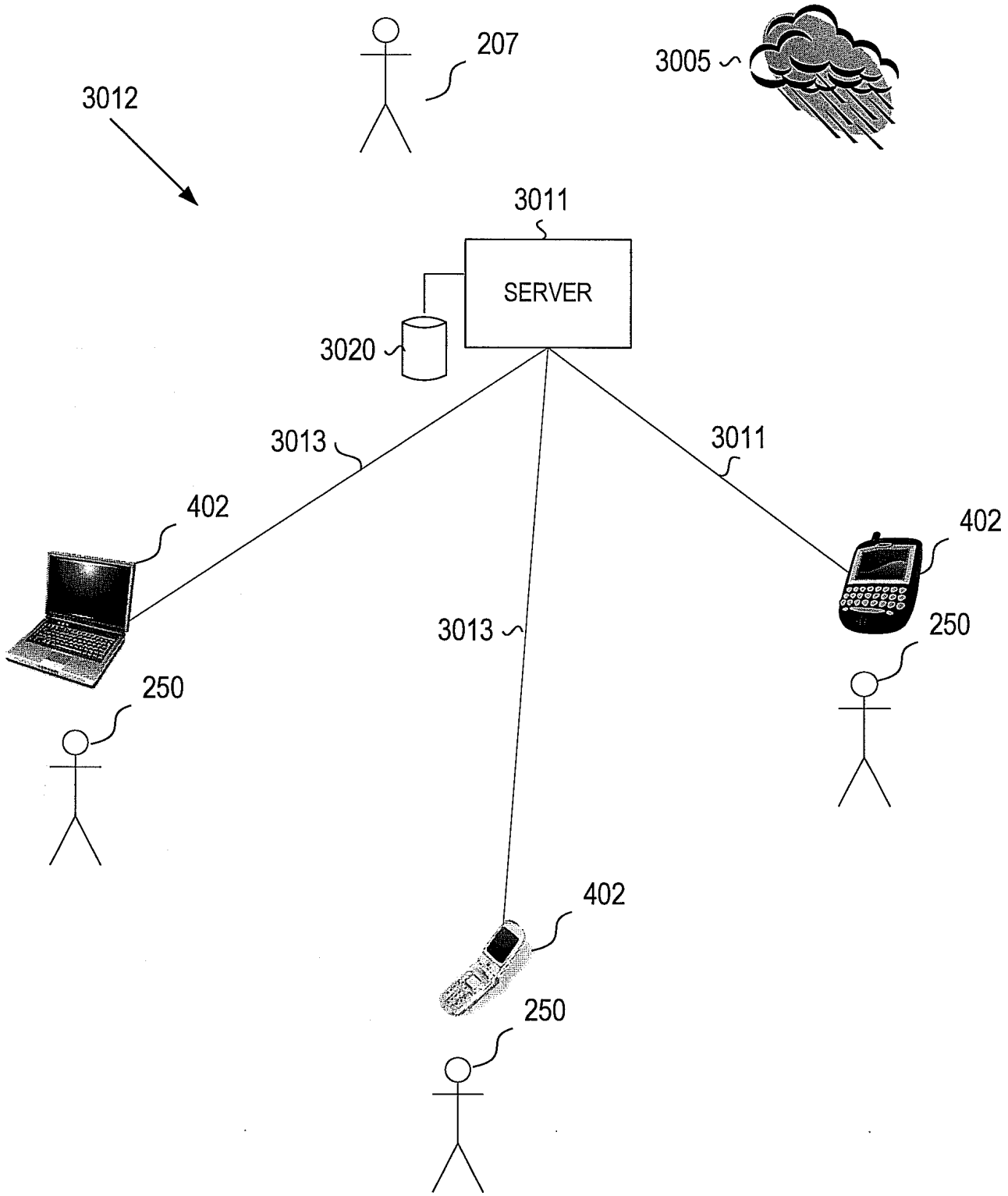

207
3005
3012
3011
SERVER
3020
3013
3011
402
402
3013
250
250
402
250

Fig. 43

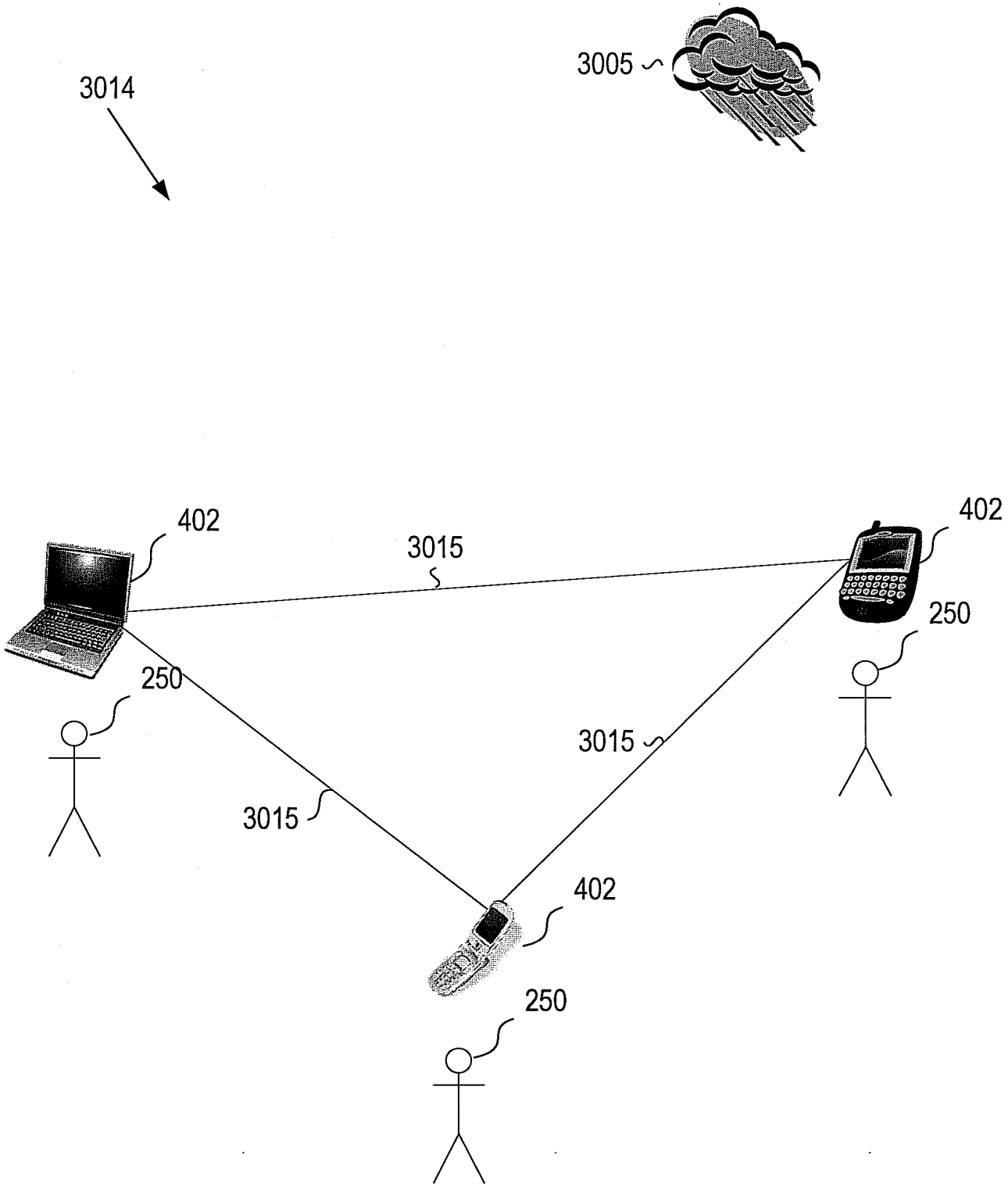


Fig. 44

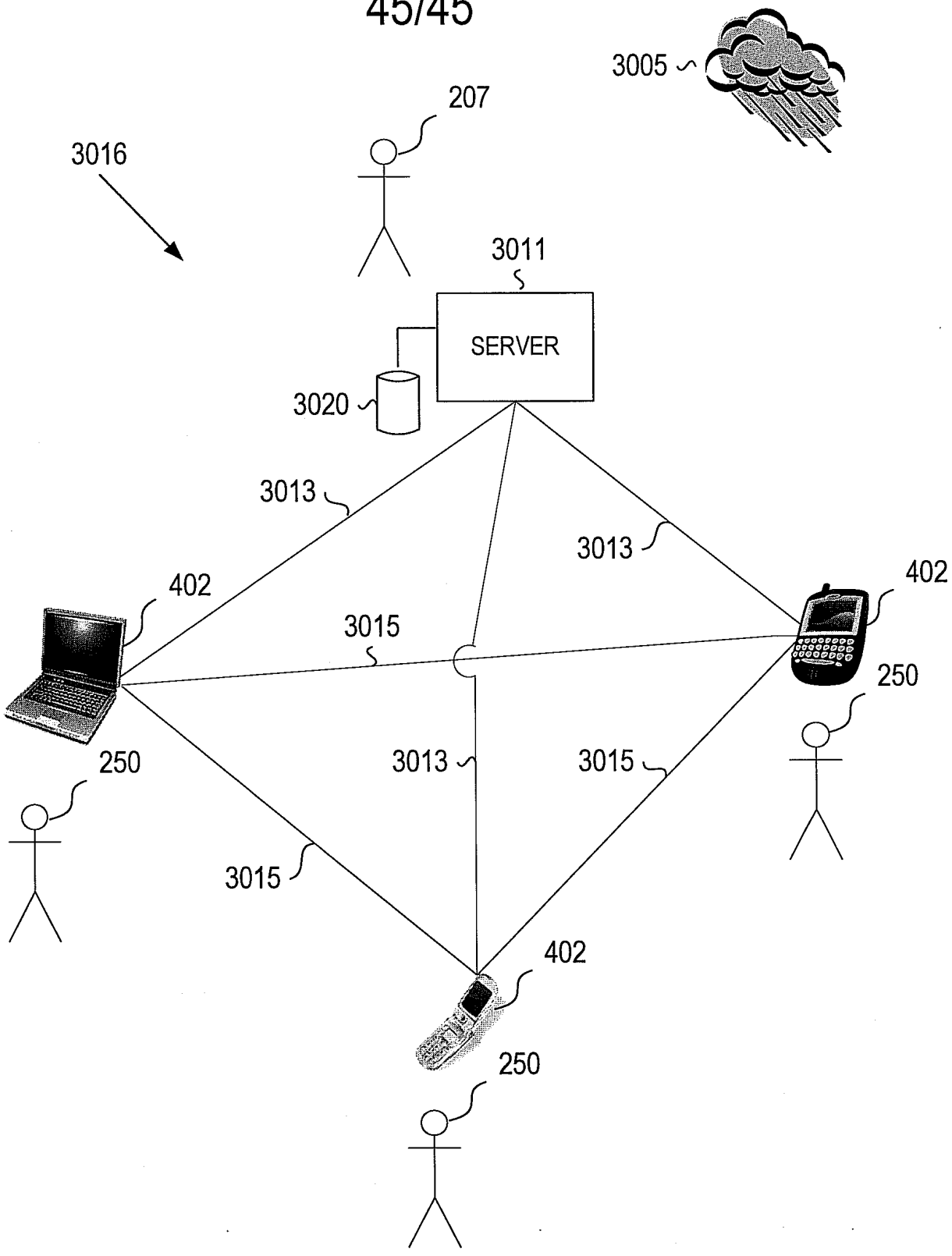

3005
207
3016
3011
SERVER
3020
3013
3013
402
402
3015
250
250
3013
3015
3015
402
250

Fig. 45

Electronic Acknowledgement Receipt

EFS ID:	2374265
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	27833
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	26-OCT-2007
Filing Date:	
Time Stamp:	11:25:13
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

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Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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	Oath or Declaration filed		3	5	
	Nonpublication request from applicant.		6	6	
Warnings:					
Information:					
2		RCL-005-2_APP.pdf	3304996 2dcc9cd242c496c29e084be866a774b18e3e9fa9	yes	59
	Multipart Description/PDF files in .zip description				
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	Specification		1	47	
	Claims		48	58	
	Abstract		59	59	
Warnings:					
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3	Drawings-only black and white line drawings	RCL-005-2_FIGS.pdf	976873 dbb1073e143a19c217d2c38a80f141cfa028e378	no	45
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(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	Cona, Thomas
Art Unit	TBD
Examiner Name	Unknown
Attorney Docket Number	RCL-005-2

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	2	6091956		2000-07-18	Hollenberg	
	3	6112074		2000-08-29	Pinder	
	4	6563910	B1	2003-05-13	Menard, et al	
	5	6600928	B1	2003-07-29	Ahya, et al	
	6	6785681	B2	2004-08-31	Keskar, et al	
	7	7058385	B2	2006-06-06	Lauper	
	8	7091829	B2	2006-08-15	Lee	

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	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	Cona, Thomas
	Art Unit	TBD
	Examiner Name	Unknown
	Attorney Docket Number	RCL-005-2

	9	7177398	B2	2007-02-13	Meer, et al	
	10	7181346	B1	2007-02-20	Kleist et al	
	11	7233974	B2	2007-06-19	Kawahara, et al	
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	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	Cona, Thomas
	Art Unit	TBD
	Examiner Name	Unknown
	Attorney Docket Number	RCL-005-2

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	Cona, Thomas
	Art Unit	TBD
	Examiner Name	Unknown
	Attorney Docket Number	RCL-005-2

	12	HARRISON, Jeff, "Location Based Social Networking for Crisis Management", 2006, www.thecarbonproject.com, 24 pgs.	☐
	13	Press Release, "WeatherBug and SendWordNow 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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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	Cona, Thomas
	Art Unit	TBD
	Examiner Name	Unknown
	Attorney Docket Number	RCL-005-2

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☐ 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	/aws/	Date (YYYY-MM-DD)	2007-11-07
Name/Print	Andrew W. Spicer	Registration Number	57420

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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.

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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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EFS ID:	2435873
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	27833
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	07-NOV-2007
Filing Date:	
Time Stamp:	13:26:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes) /Message Digest	Multi Part /.zip	Pages (if appl.)
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Information:					
3	NPL Documents	CarbonProject_Harrison_e.pdf	6130098 3d09f8177184378e4ab13eee9f96ee97fdaa7605	no	24
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Information:					
4	NPL Documents	Dane_County_2006-10-23_e.pdf	1303904 9024d1d1e50affaa266be99e90089d68bef26411	no	10
Warnings:					
Information:					
5	NPL Documents	FriendforFree-2005-August.pdf	289933 8da306e7645afa51c8177e833ac68f87f5dafb18	no	20
Warnings:					
Information:					
6	NPL Documents	INConnect_2007-Spring.pdf	2704589 eba7cdb22d8968fdcebff202ab24b1b354b57ac6	no	8
Warnings:					
Information:					
7	NPL Documents	Mobile_Dating_SFGate_2005_07_23_e.pdf	375542 9e814eb85e194f945cddbe1d5e48c3919a07d13b	no	3
Warnings:					
Information:					
8	NPL Documents	National_Geographic-2006-10-19_e.pdf	2737191 578eb32906d0a2a0c2fdad3959d76a182494b43e	no	5
Warnings:					
Information:					
9	NPL Documents	NewScientistTech-2007-02-15_e.pdf	200259 4ccbd24ab0e6ff6701c1e1df69394f27be413e9b	no	2
Warnings:					
Information:					
10	NPL Documents	Notify_TWC_20071207_e.pdf	1034707 514201240f4fe6c6ea255d22ef971f7812948a2d	no	5
Warnings:					

Information:					
11	NPL Documents	Science-2007-02-16-911gov_e.pdf	1040720 664ae8b7e89c711dd1af1921cdd87b07b36b1183	no	1
Warnings:					
Information:					
12	NPL Documents	SendWordNow_e.pdf	1487282 6df8e3a60afa90e9ec686a69281d2a38e2014ff6	no	11
Warnings:					
Information:					
13	NPL Documents	Twitter-NPR-052107_e.pdf	286000 ceafefa1423cc3f98c9c6765d0955c08a7c0035c	no	1
Warnings:					
Information:					
14	NPL Documents	VulnerablePopulations_2005-Feb_e.pdf	1598035 576bbf6db623a19633eb2ad1efe538eb47b28f44	no	11
Warnings:					
Information:					
15	NPL Documents	WeatherBug_SmartNotification_2006-06-12_e.pdf	1251374 f7fbaf82355eb560c03e684ccfd8e1f1eb25a6e2	no	6
Warnings:					
Information:					
			Total Files Size (in bytes):	23316917	

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

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

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

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

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

11/13/2007 MNGUYEN 00000008 503061 11924711

01 FC:1011	310.00	DA
02 FC:1111	510.00	DA
03 FC:1311	210.00	DA
04 FC:1201	840.00	DA
05 FC:1202	1450.00	DA

PTO-1556
(5/87)

*U.S. Government Printing Office: 2002 — 489-267/69033

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
11/924,711	10/26/2007	Thomas Cona	RCL-005-2

CONFIRMATION NO. 1749

27833
TECHNOLOGY, PATENTS AND LICENSING, INC.
2003 South EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901

FORMALITIES LETTER

OC000000026724041

Date Mailed: 11/19/2007

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is unsigned.

The applicant needs to satisfy supplemental fees problems indicated below.

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

- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of $**130** for a non-small entity, must be submitted with the missing items identified in this notice.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is $**130** for a non-small entity
- $**130** Surcharge.

Replies should be mailed to:

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

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/pwallace sr/

Office of Initial Patent Examination (571) 272-4000 or 1-800-PTO-9199

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/924,711	10/26/2007	2616	3320	RCL-005-2	49	7

CONFIRMATION NO. 1749

27833
TECHNOLOGY, PATENTS AND LICENSING, INC.
2003 South EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901

FILING RECEIPT



Date Mailed: 11/19/2007

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 write to the Office of Initial Patent Examination's Filing Receipt Corrections. 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**

Applicant(s)

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

Assignment For Published Patent Application

Resource Consortium Limited

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/887,843 02/02/2007

Foreign Applications

If Required, Foreign Filing License Granted: 11/13/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/924,711**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Creating a Projection of a Situational Network

Preliminary Class

370

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PTO/SB/06 (12-04)

Filing Date: 10/26/07

Approved for use through 7/31/2006. 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 11/924711

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	310
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	510
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	210
TOTAL CLAIMS (37 CFR 1.16(i))	49 minus 20 =	29	X$ 25		OR	X$50	1450
INDEPENDENT CLAIMS (37 CFR 1.16(h))	7 minus 3 =	* 4	X$100			X$210	840
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 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))			185			370	
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	0		TOTAL	3320

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))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T 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))					N/A		OR	N/A	
						TOTAL ADD'T FEE		OR	TOTAL ADD'T 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.

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. Paten 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.

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

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

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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.

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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

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

PRELIMINARY AMENDMENT

This paper is being filed prior to the first Office Action on the merits of the above-identified patent application.

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

Specification Amendments:

Please replace Paragraph [0004] on of the Cross Reference to Related Applications section with the amended Paragraph [0004] as follows:

-- [0004] This application is also related to co-pending U.S. Patent Application No. [[ ]]11/924706, filed October 26, 2007, entitled *Situational Network*, Attorney Docket No. RCL-005-1; U.S. Patent Application No. [[ ]]11/924,721, filed October 26, 2007, entitled *Location Based Services in a Situational Network*, Attorney Docket No. RCL-005-3; U.S. Patent Application No. [[ ]]11/924,727, filed October 26, 2007, entitled *Use of a Situational Network for Navigation and Travel*, Attorney Docket No. RCL-005-4; U.S. Patent Application No. [[ ]]11/924,731, filed October 26, 2007, entitled *Access of Information Using a Situational Network*, Attorney Docket No. RCL-005-5; U.S. Patent Application No.-[[ ]]11/924,741, filed October 26, 2007, entitled *Searchable Message Board*, Attorney Docket No. RCL-005-6; and U.S. Patent Application No. [[ ]]11/924,748, filed October 26, 2007, entitled *Targeted Advertising in a Situational Network*, Attorney Docket No. RCL-005-7.--

REMARKS

Presently, claims 1 – 49 are pending in the application. The specification has been amended to include application numbers of related, co-pending applications, previously incorporated by reference.

Conclusion

In view of the foregoing amendments and remarks, Applicants respectfully submit that the application, is complete and in condition for allowance. Entry of the foregoing amendments, examination of the Application on the merits and an early Notice of Allowance are respectfully requested.

Respectfully submitted,

Date: 2/11/08

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**

Electronic Acknowledgement Receipt

EFS ID:	2840620
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	27833
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	11-FEB-2008
Filing Date:	26-OCT-2007
Time Stamp:	14:37:47
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-005-2_NMP.pdf	561827 659a6874f50f626ff18246bc45a519b21f4464dd	yes	21

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Extension of Time	1	2
	Applicant Response to Pre-Exam Formalities Notice	3	6
	Oath or Declaration filed	7	10
	Petition for review by the Office of Petitions.	11	16
	Rule 130, 131 or 132 Affidavits	17	18
	Preliminary Amendment	19	21

Warnings:	
Information:	
Total Files Size (in bytes):	561827

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:

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 FOR EXTENSION OF TIME UNDER 37 C.F.R. §1.136(a)

Applicant(s) in the above-identified application hereby petition(s) for a one-month extension of time to and including February 19, 2008, for responding to the Notice to File Missing Parts mailed November 19, 2007.

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

☒ Extension fee in the amount of $120.00.

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

Date: 2/11/08

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

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 FOR EXTENSION OF TIME UNDER 37 C.F.R. §1.136(a)

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

Date: 2/11/08

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

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

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

RESPONSE TO NOTICE TO FILE MISSING PARTS

Applicant(s) in the above-identified patent application hereby respond to the Notice to File Missing Parts mailed on November 19, 2007 ("Notice").

Enclosed are the following:

- ☐ Statutory basic filing fee of $_____;
- ☐ Search fee of $_____;
- ☐ Examination fee of $____;
- ☒ Executed Oath or Declaration and Power of Attorney;
- ☒ Preliminary Amendment;
- ☒ Executed Declaration of Leonid Kravets;
- ☒ Petition to Permit Acceptance of a Patent Application where an Inventor has Refused to Sign the Declaration;
- ☒ Petition for Extension of Time; and
- ☒ Late Oath or Declaration Surcharge of $130.00.

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

☒ Late Oath or Declaration Surcharge of **$130.00.**

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

Respectfully submitted,

Date: 2/11/08

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

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

Commissioner for Patents
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Alexandria, VA 22313-1450

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Enclosed are the following:

- ☐ Statutory basic filing fee of $_____;
- ☐ Search fee of $_____;
- ☐ Examination fee of $____;
- ☒ Executed Oath or Declaration and Power of Attorney;
- ☒ Preliminary Amendment;
- ☒ Executed Declaration of Leonid Kravets;
- ☒ Petition to Permit Acceptance of a Patent Application where an Inventor has Refused to Sign the Declaration;
- ☒ Petition for Extension of Time; and
- ☒ Late Oath or Declaration Surcharge of $130.00.

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

☒ Late Oath or Declaration Surcharge of **$130.00.**

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

Respectfully submitted,

Date: 2/11/08

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

DECLARATION AND POWER OF ATTORNEY
(Original Application)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Creating a Projection of a Situational Network

the specification of which is attached hereto and/or was filed on October 26, 2007 as Application No. 11/924,711.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to herein.

I acknowledge the duty to disclose information which is material to patentability in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

FOREIGN PRIORITY APPLICATION(S)

			Priority Claimed
			[ ] Yes [ ] No
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional patent application(s) listed below and have also identified below any United States provisional patent application(s) having a filing date before that of the application on which priority is claimed:

PROVISIONAL PRIORITY PATENT APPLICATION(S)

		Priority Claimed
60/887,843	February 2, 2007	[X] Yes [ ] No
(Application No.)	(Filing Date)	

And I hereby appoint the registered attorneys and agents associated with **TECHNOLOGY, PATENTS & LICENSING, INC., Customer No. 27833,** as my attorneys or agents with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Address all correspondence to **Customer No. 27833,** namely, **TECHNOLOGY, PATENTS & LICENSING, INC.,** 2003 South Easton Road, Suite 208, Doylestown, PA 18901. Please direct all communications and telephone calls to Andrew W. Spicer at 267-880-1720.

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.

Full Name of First or Sole Inventor(s) Thomas Cona

Inventor's Signature T. R C

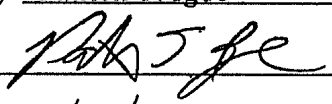
Date 26 nov 2007

Residence City/State Athens, GA

Citizenship US

Post Office Address 700 Riverview Road, Athens, GA 30606

Full Name of Joint Inventor(s) Patrick T. Igoe

Inventor's Signature 

Date 1/31/2008

Residence City/State Philadelphia, PA

Citizenship US

Post Office Address 2032B Arch Street, Philadelphia, PA 19103

Full Name of Joint Inventor(s) Leonid Kravets

Inventor's Signature _____

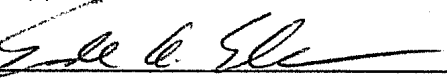
Date _____

Residence City/State Philadelphia, PA

Citizenship US

Post Office Address 2001 Hamilton Avenue, Unit 727, Philadelphia, PA 19130

Full Name of Joint Inventor(s) Edward A. Ehrlacher

Inventor's Signature 

Date 2-8-08

Residence City/State Philadelphia, PA

Citizenship US

Post Office Address 226 W. Gravers Lane, Philadelphia, PA 19118

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.

06/04/2008 CKHLOK 00000004 503061 11924711

01 FC:1463 200.00 DA

Patent Owner Exhibit 2008, Page 153 of 355

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

COPY MAILED

JUN 04 2008

OFFICE OF PETITIONS

Leonid Kravets
Unit 727
2001 Hamilton Avenue
Philadelphia, PA 19130

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

Mr. Kravets:

You are named as a joint inventor in the above identified United States patent application.

Should a patent be granted on the application you will be designated therein as a joint inventor.

As a named inventor you, or a registered patent attorney or agent on your behalf, have the right to obtain copies of any papers in the file wrapper. Information regarding how to pay for and order a copy of the application, or a specific paper in the application, should be directed to Certification Division at (703) 308-9726 or 1 (800) 972-6382 (outside the Washington D.C. area).

General requests for information regarding the application should be directed to the File Information Unit at (703) 308-2733.

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

Charles Steven Brantley
Petitions Attorney
Office of Petitions

cc: TECHNOLOGY, PATENTS AND LICENSING, INC.
2003 South EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
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TECHNOLOGY, PATENTS AND LICENSING, INC.
2003 South EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901

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JUN 0 4 2008

OFFICE OF PETITIONS

In re Application of :
Cona et al. :
Application No. 11/924,711 : Decision According Status
Filed: October 26, 2007 : Under 37 CFR 1.47(a)
Attorney Docket No. RCL-005-2 :
For: Creating a Projection of a :
Situational Network :

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

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

☒ Late Oath or Declaration Surcharge of **$130.00.**

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

Respectfully submitted,

Date: 2/11/08

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

06/12/2008 HMOHAMM1 00000013 503061 11924711

01 FC:1251 120.00 DA
02 FC:1051 130.00 DA

Patent Owner Exhibit 2008, Page 156 of 355

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/924,711	10/26/2007	2616	3450	RCL-005-2	49	7

CONFIRMATION NO. 1749

UPDATED FILING RECEIPT

27833
TECHNOLOGY, PATENTS AND LICENSING, INC.
2003 South EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901



Date Mailed: 06/13/2008

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**

Applicant(s)

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

Assignment For Published Patent Application

Resource Consortium Limited

Power of Attorney: The patent practitioners associated with Customer Number 27833

Domestic Priority data as claimed by applicant

This appln claims benefit of 60/887,843 02/02/2007

Foreign Applications

If Required, Foreign Filing License Granted: 11/13/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 11/924,711**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

Title

Creating a Projection of a Situational Network

Preliminary Class

370

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

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

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

POWER OF ATTORNEY

I hereby revoke all previous powers of attorney given in the application(s) and patent(s) listed on Exhibit A, attached hereto.

I hereby appoint the registered attorneys and agents associated with **CARLINEO, SPICER & KEE, LLC, Customer No. 81712**, as my attorneys or agents with full power of substitution and revocation, to prosecute the application(s) and patent(s) listed on Exhibit A and any future applications related thereto and to transact all business in the Patent and Trademark Office connected therewith.

Please address all correspondence to **Customer No. 81712,** namely, **CARLINEO, SPICER & KEE, LLC,** 2003 South Easton Road, Suite 208, Doylestown, PA 18901. Please direct all communications and telephone calls to Andrew W. Spicer at 267-880-1720.

I am the assignee of record of the entire interest of the application(s) and patent(s) listed on Exhibit A. A statement under 37 C.F.R. 3.73(b) is enclosed herewith.

Executed this 9 day of August, 2008.

BY: GORDON R. HERRING
Vice-President
Resource Consortium Limited

Gordon R Herring
Signature

EXHIBIT A

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
60/078,175	3/16/1998	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-PV
09/184206	11/2/1998	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-1
09/929420	8/14/2001	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-2
WO 99/48238	11/11/1998	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-WO
EP 1062762	11/11/1998	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-EP
DE 69813305	11/11/1998	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-DE
AU 1390599	11/11/1998	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-AU
AT 0237206	11/11/1998	Message content protection and conditional disclosures	Ogilvie, John W. L.	RCL-001-AT
60/134,383	5/15/1999	Automatic broker tools and techniques	Ogilvie, John W. L.	RCL-002-PV
09/552341	4/18/2000	Automatic broker tools and techniques	Ogilvie, John W. L.	RCL-002-1
10/010941	12/05/2001	Automatic broker tools and techniques	Ogilvie, John W. L.	RCL-002-2
AU760713	4/18/2000	Automatic broker tools and techniques	Ogilvie, John W. L.	RCL-002-AU
WO 00/70516	4/18/2000	Automatic broker tools and techniques	Ogilvie, John W. L.	RCL-002-WO
EP 00926079	4/18/2000	Automatic broker tools and techniques	Ogilvie, John W. L.	RCL-002-EP

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
CA 2388385	4/18/2000	Automatic broker tools and techniques	Ogilvie, John W.L.	RCL-002-CA
11/566,947	12/5/2006	Aggregating Personal Information in a Personal Information Aggregator	Igoe, Patrick T.	RCL-003-1
11/567,168	12/5/2006	Aggregating Personal Information in a Personal Information Aggregator	Igoe, Patrick T.	RCL-003-2
11/567,169	12/5/2006	Aggregating Personal Information in a Personal Information Aggregator	Igoe, Patrick T.	RCL-003-3
11/567,170	12/5/2006	Aggregating Personal Information in a Personal Information Aggregator	Igoe, Patrick T.	RCL-003-4
11/567,172	12/5/2006	Providing Incentives based on Aggregated Purchases	Igoe, Patrick T.	RCL-003-5
11/567,174	12/5/2006	Aggregating Personal Information in a Personal Information Aggregator	Igoe, Patrick T.	RCL-003-6
11/567,175	12/5/2006	Receiving Incentives for Aggregated Purchase Information	Igoe, Patrick T.	RCL-003-7
11/567,179	12/5/2006	Obtaining Personal Information from a Personal Information Aggregator	Igoe, Patrick T.	RCL-003-8
11/567,200	12/5/2006	Targeting Advertisements to Groups using Aggregated Personal Information	Igoe, Patrick T. Eldering, Charles A.	RCL-003-9
11/567,183	12/5/2006	Determining the Effectiveness of Advertisements	Igoe, Patrick T. Eldering, Charles A.	RCL-003-10
11/567,184	12/5/2006	Determining Insurance Needs Using a Personal Information Aggregator	Igoe, Patrick T. Eldering, Charles A.	RCL-003-11
11/567,185	12/5/2006	Generating Financial Plans using a Personal Information Aggregator	Igoe, Patrick T. Eldering, Charles A.	RCL-003-12
11/567,187	12/5/2006	Generating Financial Plans using a Personal Information Aggregator	Igoe, Patrick T. Eldering, Charles A.	RCL-003-13
11/567,188	12/5/2006	Targeting Advertisements using Aggregated Personal Information	Igoe, Patrick T. Eldering, Charles A.	RCL-003-14

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
11/567,190	12/5/2006	Targeting Advertisements in a Multi-Dimensional Personal Information Network	Igoe, Patrick Eldering, Charles	RCL-003-15
11/567,192	12/5/2006	Targeting Advertisements in a Multi-Dimensional Personal Information Network	Igoe, Patrick Eldering, Charles	RCL-003-16
11/567,194	12/5/2006	Creating a Projection of a Multi-Dimensional Network	Eldering, Charles Igoe, Patrick	RCL-003-17
11/567,195	12/5/2006	Accessing Information in a Multi-Dimensional Network	Eldering, Charles Igoe, Patrick	RCL-003-18
11/567,197	12/5/2006	Creating a Projection of a Multi-Dimensional Personal Information Network	Eldering, Charles Igoe, Patrick	RCL-003-19
11/567,198	12/5/2006	Obtaining Lists of Nodes of a Multi-Dimensional Network	Eldering, Charles Igoe, Patrick	RCL-003-20
11/567,201	12/5/2006	Providing Notifications to an Individual in a Multi-Dimensional Personal Information Network	Cumberbatch, Bradlee Igoe, Patrick Eldering, Charles	RCL-003-21
11/567,202	12/5/2006	Sending Personal Information to a Personal Information Aggregator	Igoe, Patrick Kravets, Leonid	RCL-003-23
11/668,737	1/30/2007	Targeting Advertisements using Aggregated Personal Information	Igoe, Patrick Eldering, Charles	RCL-003-24
11/668,739	1/30/2007	Targeting Advertisements using Aggregated Personal Information	Igoe, Patrick Eldering, Charles	RCL-003-25
11/668,744	1/30/2007	Determining Contraindications using Aggregated Personal Information	Igoe, Patrick Eldering, Charles	RCL-003-26
11/668,751	1/30/2007	Determining Lifestyle Recommendations using Aggregated Personal Information	Igoe, Patrick Eldering, Charles	RCL-003-27
11/668,757	1/30/2007	Generating Recommendations in a Multi-Dimensional Personal Information Network	Eldering, Charles A. Igoe, Patrick T.	RCL-003-28
11/668,776	1/30/2007	Generating Recommendations in a Multi-Dimensional Personal Information Network	Eldering, Charles A. Igoe, Patrick T.	RCL-003-29
11/668,801	1/30/2007	Generating Recommendations in a Multi-Dimensional Personal Information Network	Eldering, Charles A. Igoe, Patrick T.	RCL-003-30

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
08/890,920	7/10/1997	Corona Detector with Narrow-Band Optical Filter	Forsyth, Keith W.	RCL-004-1
09/261,532	3/3/1999	Corona Detector with Narrow-Band Optical Filter	Forsyth, Keith W.	RCL-004-2
09/545,419	4/7/2000	Electro-Optical, Non-Contact Measurement of Electrical Discharges	Forsyth, Keith W.	RCL-004-3
60/887843	2/2/2007	Situational Network	Cona, Tom Igoe, Patrick T.	RCL-005-PV
11/924,706	10/26/2007	Situational Network	Cona, Thomas Rose, Bruce L.	RCL-005-1
11/924,711	10/26/2007	Creating a Projection of a Situational Network	Cona, Thomas Igoe, Patrick T. Kravets, Leonid	RCL-005-2
11/924,721	10/26/2007	Location Based Services in a Situational Network	Agronow, Daniel Cona, Thomas Wendkos, Eli L. Igoe, Patrick T. Pons, Miguel E.	RCL-005-3
11/924,727	10/26/2007	Use of a Situational Network for Navigation and Travel	Cona, Thomas Ehrlacher, Edward A.	RCL-005-4
11/924,731	10/26/2007	Access of Information using a Situational Network	Cona, Thomas Ehrlacher, Edward A. Kravets, Leonid	RCL-005-5
11/924,741	10/26/2007	Searchable Message Board	Wendkos, Eli L. Longacre, Monisha Cona, Thomas	RCL-005-6
11/924,748	10/26/2007	Targeted Advertising in a Situational Network	Cona, Thomas Igoe, Patrick T. Kravets, Leonid	RCL-005-7
09/588,953	6/7/2000	Method and System of Auxiliary Illumination for Enhancing a Scene During a Multimedia Presentation	Makar, Michael G. Mosley, Joseph M. Tindall, Tracy A.	RCL-006-1
PCT/US01/18431	6/7/2001	Method and System of Auxiliary Illumination for Enhancing a Scene During a Multimedia Presentation	Makar, Michael G. Mosley, Joseph M. Tindall, Tracy A.	RCL-006-WO
AU0175353	6/7/2001	Method and System of Auxiliary Illumination for Enhancing a Scene During a Multimedia Presentation	Makar, Michael G. Mosley, Joseph M. Tindall, Tracy A.	RCL-006-AU

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
09/113,453	7/10/1998	Method and System for Displaying and Interacting with an Information Message Based on an Information Processing System Event	Kreynin, Vadim Mosley, Joseph M. Makar, Michael G.	RCL-007-1
CA2306936	10/16/1998	Method and System for Displaying and Interacting with an Information Message Based on an Information Processing System Event	Kreynin, Vadim Mosley, Joseph M. Makar, Michael G.	RCL-007-CA
DE19882743	10/16/1998	Method and System for Displaying and Interacting with an Information Message Based on an Information Processing System Event	Kreynin, Vadim Mosley, Joseph M. Makar, Michael G.	RCL-007-DE
GB2346241	10/16/1998	Method and System for Displaying and Interacting with an Information Message Based on an Information Processing System Event	Kreynin, Vadim Mosley, Joseph M. Makar, Michael G.	RCL-007-GB
60/062,600	10/20/1997	Method and System for Displaying and Interacting with an Information Message Based on an Information Processing System Event	Kreynin, Vadim Mosley, Joseph M. Makar, Michael G.	RCL-007-PV
PCT/US98/21980	10/16/1998	Displaying and Interacting with an Information Message Based on an Information Processing System Event	Kreynin, Vadim Mosley, Joseph M. Makar, Michael G.	RCL-007-WO
60/384,942	5/31/2002	Method of and Apparatus for Displaying Information on a Wireless Communication Device	King, John J. King, Christina J.	RCL-009-PV
60/389,814	6/19/2002	Method of and Apparatus for Displaying Information on a Wireless Communication Device	King, John J. King, Christina J.	RCL-009-PV2
10/307,834	12/2/2002	Cellular Telephone Having a Touch Screen User Interface	King, John J. King, Christina J.	RCL-009-1
10/307,862	12/2/2002	Foldable Wireless Communication Device Functioning as a Cellular Telephone and a Personal Digital Assistant	King, John J. King, Christina J.	RCL-010-1
10/307,601	12/2/2002	User Interface for a Cellular Telephone Functioning as a Personal Digital Assistant	King, John J. King, Christina J.	RCL-009-X

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
10/449,211	5/30/2003	Foldable Cellular Telephone	King, John J. King, Christina J.	RCL-010-X
PCT/US01/17029	5/30/2003	Foldable Cellular Telephone	King, John J. King, Christina J.	RCL-010-WO
AU 3240951	5/30/2003	Foldable Cellular Telephone	King, John J. King, Christina J.	RCL-010-AU
PCT/US01/17101	10/16/1998	Method and System for Displaying and Interacting with an Information Message Based on an Information Processing System Event	King, John J. King, Christina J.	RCL-009-WO
AU 3245365	5/30/2003	A Cellular Telephone Having a Touch Screen User Interface	King, John J. King, Christina J.	RCL-009-AU
10/000,939	11/2/2001	Method of Downloading a Screen Saver to a Cellular Telephone	King, John J. King, Christina J.	RCL-011-X
10/002,799	11/2/2001	Method of Providing a Screen Saver on a Cellular Telephone	King, John J. King, Christina J.	RCL-011-1
60/246,773	11/8/2000	Method and Apparatus for Providing Content Relevant Information Associated with a Picture File	King, John J. King, Christina J.	RCL-012-PV
6/311,982	8/13/2001	Method and Apparatus for Providing Content Relevant Information Associated with a Picture File	King, John J. King, Christina J.	RCL-012-PV2
10/004,318	11/2/2001	Method of Displaying a Picture File on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-1
10/307,066	11/29/2002	Method of Enabling the Display of a Picture File on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-2
10/307,121	11/29/2002	Method of Editing Information Related to a Picture File Displayed on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-3
PCT/US01/43457	11/6/2001	Method of Providing a Screen Saver on a Cellular Telephone	King, John J. King, Christina J.	RCL-011-WO
GB 2386810	11/6/2001	Method of Providing a Screen Saver on a Cellular Telephone	King, John J. King, Christina J.	RCL-011-GB

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
AU 0225673	11/6/2001	Method of Providing a Screen Saver on a Cellular Telephone	King, John J. King, Christina J.	RCL-011-AU
PCT/US-1/43430	11/6/2001	Method of Enabling the Display of a Picture File on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-WO
GB 2393879	11/6/2001	Method of Enabling the Display of a Picture File on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-GB
CA 2466917	11/6/2001	Method of Enabling the Display of a Picture File on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-CA
AU 0226910	11/6/2001	Method of Enabling the Display of a Picture File on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-AU
10/307,175	11/29/2002	Method of Enabling the Selection of A Picture File on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-2X
10/307,096	11/29/2002	Method of Enabling the Display of a Plurality of Picture Files on a Cellular Telephone	King, John J. King, Christina J.	RCL-012-3X
PCT/US/43459	11/6/2001	Method of Downloading a Screen Saver to a Cellular Telephone	King, John J. King, Christina J.	RCL-011-WO2
EP 1410159	11/6/2001	Method of Downloading a Screen Saver to a Cellular Telephone	King, John J. King, Christina J.	RCL-011-EP
GB 2386798	11/6/2001	Method of Downloading a Screen Saver to a Cellular Telephone	King, John J. King, Christina J.	RCL-011-GB2
AU 0243222	11/6/2001	Method of Downloading a Screen Saver to a Cellular Telephone	King, John J. King, Christina J.	RCL-011-AU2
PCT/US01/46749	11/8/2001	A Cellular Telephone Capable of Displaying a Picture File	King, John J. King, Christina J.	RCL-012-WO2
EP 1410672	11/8/2001	A Cellular Telephone Capable of Displaying a Picture File	King, John J. King, Christina J.	RCL-012-EP
AU 0230625	11/8/2001	A Cellular Telephone Capable of Displaying a Picture File	King, John J. King, Christina J.	RCL-012-AU2
09/511,735	2/24/2000	Method and Application Programming Interface for Assigning Multiple Network Addresses	Borella, Michael S. Beser, Nurettin B.	RCL-013-1

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
10/156,739	5/28/2002	Extensible and Flexible Electronic Information Tracking Systems and Methods	Morgan, George J., III	RCL-014-1
11/486,909	7/14/2006	Extensible and Flexible Electronic Information Tracking Systems and Methods	Morgan, George J., III	RCL-014-2
60/293,659	5/25/2001	Extensible and Flexible Electronic Information Tracking Systems and Methods	Morgan, George J., III	RCL-014-PV
09/774,462	1/31/2001	Industrial Equipment Services Marketing and Sale System	Ifflander, Bernhard Jouffroy, Marion Honig, Nickolaus	RCL-015-1
EP2002203.4	1/29/2003	Industrial Equipment Services Marketing and Sale System	Ifflander, Bernhard Jouffroy, Marion Honig, Nickolaus	RCL-015-EP
09/390,363	9/07/1999	System and Method for Enabling the Originator of an Electronic Mail Message to Preset an Expiration Time, Date and/or Event, and to Control Processing or Handling by a Recipient	Leonard, Jon N.	RCL-016-1
09/475,112	12/30/1999	System and Method for Enabling the Originator of an Electronic Mail Message to Preset an Expiration Time, Date and/or Event, and to Control Processing or Handling by a Recipient	Leonard, Jon N. Bernstein, Michael	RCL-016-2
WO 01/50291	12/27/2000	System and Method for Electronic Mail Message Processing	Leonard, Jon N. Bernstein, Michael	RCL-016-WO
CA 2396415	12/27/2000	System and Method for Electronic Mail Message Processing	Leonard, Jon N. Bernstein, Michael	RCL-016-CA
AU 0125817	12/27/2000	System and Method for Electronic Mail Message Processing	Leonard, Jon N. Bernstein, Michael	RCL-016-AU
09/997,018	11/20/2001	Method for Grouping Computer Subscribers by Common Preferences to Establish Non Intimated Relationship	Wilens, Peter	RCL-017-1
09/591,526	6/9/2000	Network Probing Using Overlapping Probe Packets	Augart, Steven	RCL-018-1
09/590,960	6/9/2000	Determining the Geographic Location of a Network Device	Augart, Steven	RCL-019-1
11/678,581	2/24/2007	Determining the Geographic Location of a Network Device	Augart, Steven	RCL-019-2
09/591,288	6/9/2000	Creating a Geographic Database for Network Devices	Augart, Steven	RCL-020-1

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
10/290,085	11/6/2002	Method and System for Access to Automatically Synchronized Remote Files	Duncombe, Chris Jaffe, Norman Swain, Nicholas Mark	RCL-021-1
CA2411294	11/6/2002	Method and System for Access to Automatically Synchronized Remote Files	Duncombe, Chris Jaffe, Norman Swain, Nicholas Mark	RCL-021-CA
60/338,497	11/6/2001	Method and System for Access to Automatically Synchronized Remote Files	Duncombe, Chris Jaffe, Norman Swain, Nicholas Mark	RCL-021-PV
10/152,308	5/20/2002	System and Method for Detection and Analysis of Audio Recordings	Gordon, Goren	RCL-022-1
10/153,418	5/21/2002	System and Method for Message Insertion within Video Recordings	Gordon, Goren	RCL-023-1
10/152,309	5/20/2002	System and Method for Analyzing Aerial Photos	Gordon, Goren	RCL-024-1
10/393,860	3/21/2003	Portable Personal Security System	Lane, Jody D.	RCL-025-1
09/702,989	11/2/2000	Information Distribution Method and System	Hahn, Chris P. Gissel, Peter V.	RCL-026-1
10/801,572	3/17/2004	Information Distribution Method and System	Hahn, Chris P. Gissel, Peter V.	RCL-026-2
10/304,656	11/25/2002	Method and System for Providing Wireless Internet Protocol Access	Sharma, Abhishek Borella, Michael S. Bartucci, John T.	RCL-027-1
09/899,489	7/5/2001	System and Method for Anonymous Transaction in a Data Network and Classification of Individuals without Knowing their Real Identity	Mascarenhas, Desmond	RCL-028-1
60/216,42	7/6/2000	System and Method for Anonymous Transaction in a Data Network and Classification of Individuals without Knowing their Real Identity	Mascarenhas, Desmond	RCL-028-PV
WO 02/05196	7/5/2001	System and Method for Anonymous Transaction in a Data Network and Classification of Individuals without Knowing their Real Identity	Mascarenhas, Desmond	RCL-028-WO
AU181294	7/5/2001	System and Method for Anonymous Transaction in a Data Network and Classification of Individuals without Knowing their Real Identity	Mascarenhas, Desmond	RCL-028-AU

Application No.	Filing Date	Title	Inventor(s)	Attorney Docket No.
60/837,959	8/16/2006	Personal Information Aggregator	Igoe, Patrick T. Eldering, Charles A.	LCI-011-PV
60/839,987	8/23/2006	Personalized Recommendation System	Eldering, Charles A. Igoe, Patrick T.	LCI-012-PV
60/839,898	8/23/2006	N-Dimensional Social Network	Eldering, Charles A. Igoe, Patrick T.	LCI-013-PV
60/827,140	9/27/2006	Using Aggregated Personal Information to Determine the Effectiveness of Advertisements.	Igoe, Patrick T. Eldering, Charles A.	LCI-014-PV
60/827,143	9/27/2006	Using Aggregated Personal Information and Multidimensional Networks to Target Advertisements	Igoe, Patrick T. Eldering, Charles A.	LCI-015-PV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona et al.

Conf. No.:	1749	:	Group Art Unit:	2153
Appln. No.:	11/924,711	:	Examiner:	UNKNOWN
Filing Date:	26 OCTOBER 2007	:	Attorney Docket No.:	RCL-005-2

Title: Creating a projection of a situational network

STATEMENT UNDER 37 CFR §3.73(b)

Resource Consortium Limited, (a British Virgin Islands corporation) states that it is:

☒ the assignee of the entire right, title and interest;

by virtue of:

☒ A chain of title from the inventor(s) of the patent application/patent identified above, to the current assignee as shown below:

An assignment from **Thomas Cona, Patrick T. Igoe and Leonid Kravets** to **Resource Consortium Limited**. The document was recorded in the United States Patent and Trademark Office on February 11, 2008, at Reel 020490, Frame 0369.

An assignment from **Edward A. Ehrlacher** to **Resource Consortium Limited**. The document was recorded in the United States Patent and Trademark Office on February 11, 2008, at Reel 020490, Frame 0396.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

November 24, 2008
Date

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Andrew W. Spicer
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Customer No.: 81712

Patent Owner Exhibit 2008, Page 171 of 355

PTO/SB/122 (01-06)
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CHANGE OF CORRESPONDENCE ADDRESS
Application

Address to:
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P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	11/924,711
Filing Date	26 OCTOBER 2007
First Named Inventor	CONA, Thomas
Art Unit	2153
Examiner Name	UNKNOWN
Attorney Docket Number	RCL-005-2

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I am the:

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Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

☑ Attorney or agent of record. Registration Number 57,420.

☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number_____.

Signature	/aws/
Typed or Printed Name	Andrew W. Spicer
Date November 24, 2008	Telephone 267-880-1720

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____forms are submitted.

This collection of information is required by 37 CFR 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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Electronic Acknowledgement Receipt

EFS ID:	4424092
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	27833
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	09-DEC-2008
Filing Date:	26-OCT-2007
Time Stamp:	17:23:17
Application Type:	Utility under 35 USC 111(a)

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1		RCL-005-2_POA_373_COCA_.pdf	1585808 713824daea6f60016293e2bf2cfdc99c3f3a0c4f	yes	14

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

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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 NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/924,711	10/26/2007	Thomas Cona	RCL-005-2

CONFIRMATION NO. 1749

81712
Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

POA ACCEPTANCE LETTER

OC000000033630885

Date Mailed: 12/19/2008

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/09/2008.

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.

/mnguyen/

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

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/924,711	10/26/2007	Thomas Cona	RCL-005-2

CONFIRMATION NO. 1749

POWER OF ATTORNEY NOTICE

27833
TECHNOLOGY, PATENTS AND LICENSING, INC.
2003 South EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901

OC000000033630866

Date Mailed: 12/19/2008

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/09/2008.

- 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).

/mnguyen/

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

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	HU, Jinsong
Attorney Docket Number	RCL-005-2

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					

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	20050033511		2005-02-10	Pechatnikov et al.	
	2	20050096840		2005-05-05	Simske, Steven J.	

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

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

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NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	HU, Jinsong
	Attorney Docket Number	RCL-005-2

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

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	HU, Jinsong
	Attorney Docket Number	RCL-005-2

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	/aws/	Date (YYYY-MM-DD)	2010-03-02
Name/Print	Andrew W. Spicer	Registration Number	57,420

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.

Electronic Acknowledgement Receipt

EFS ID:	7121478
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Elizabeth McGinty
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	02-MAR-2010
Filing Date:	26-OCT-2007
Time Stamp:	14:00:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	RCL-005-2_IDS-3-2-10.pdf	612067 40cb31aa982c0f7a0e4e6f31b50bf0448de4d384	no	4

Warnings:	
Information:	

Total Files Size (in bytes):	612067

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

81712 7590 04/05/2010

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

EXAMINER	
HU, JINSONG	

ART UNIT	PAPER NUMBER
2454	

MAIL DATE	DELIVERY MODE
04/05/2010	PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	11/924,711	CONA ET AL.	
	Examiner	Art Unit	
	JINSONG HU	2454	

-- 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 *1* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, 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 *26 October 2007*.

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

3)☐ 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

4)☒ Claim(s) *1-49* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☐ Claim(s) _____ is/are rejected.

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

8)☒ Claim(s) *1-49* are subject to restriction and/or election requirement.

Application Papers

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

10)☐ 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-19 and 25, drawn to a system and method for establish link with node server by the invited devices, classified in class 709, subclass 203.

II. Claims 20-24 and 37-49, drawn to a system and method for exchanging information among personal information aggregators, classified in class 709, subclass 245.

III. Claims 26-36, drawn to a system and method for send notification to different device, classified in class 719, subclass 318.

2. The inventions are distinct, each from the other because of the following reasons: Inventions I, II and III are disclosed as different combinations which are not connected in design, operation or effect. These combinations are independent if it can be shown that (1) they are not disclosed as capable of use together, (2) they have different modes of operation, (3) they have different functions, or (4) they have different effects. (MPEP 806.04, MPEP 808.01).

In the instant case, invention I is directed to a method comprises the steps of creating, by an event node server, an event node in a multi-dimensional personal information network, the event node corresponding to a situation; forming a projection of nodes of the situational network using geographic locations of a plurality of devices corresponding to nodes in the multi-dimensional personal information network; transmitting an invitation to establish a link with the event node server to the devices corresponding to each node in the projection; receiving a response from at least one of the devices, accepting the invitation to establish a link with the event node server; and establishing a link with each device accepting the invitation.

The invention II is directed to a method comprises the steps of establishing, by a first personal information aggregator, a connection with one or more other personal information aggregators based on the occurrence of a situation, each personal information aggregator corresponding to a node in a multi-dimensional personal information network; obtaining a geographic location for each the one or more other personal information aggregators; and forming one or more projections of nodes of the multi-dimensional personal information network based on the geographic locations of each of the other personal information aggregators.

The invention III is directed to a method comprises steps of receiving a message with information related to a situation; determining at least one subset of a plurality of individuals to receive notifications corresponding to the situation, wherein the notifications include the message; generating a different notification for each of the at least one subsets of individuals; and transmitting, via the situational network,

substantially simultaneously the different notifications to the at least one subset of individuals a communication module coupled to the processing unit, wherein the processing unit is configured to send a second indication to said communication module, wherein the sending of the second indication is in response to the first indication.

3. These inventions are distinct for the reasons given above, and the search required for each Group is different and not co-extensive for examination purpose. For example, the searches for the four inventions would not be co-extensive because these groups would require different searches on PTO's classification class and subclass as following:

(a) the Group I search (claims 1-19 and 25) would require use of search **Class 709, subclass 203.**

(b) the Group II search (claims 20-24 and 37-49) would require use of search **Class 709, subclass 245.**

(c) the Group III search (claims 26-36) would require use of search **Class 719, subclass 318**.

4. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jinsong Hu whose telephone number is (571) 272-3965. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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).

/Jinsong Hu/

Primary Examiner, Art Unit 2454

Mail Stop Amendment

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Patrick T. Igoe et al.

Conf. No.:	1749	:	Group Art Unit:	2454
Appln. No.:	11/924,711	:	Examiner:	Hu, Jinsong
Filing Date:	26 October 2007	:	Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

RESPONSE TO RESTRICTION REQUIREMENT

The paper is in response to the Office Action dated April 5, 2010 in the above-identified patent application.

REMARKS

Presently, claims 1 - 49 are pending in the application.

The Examiner has required a restriction between the claims of Group I (claims 1 – 19, and 25) drawn to a system and method for establish link with node server by the invited devices; the claims of Group II (claims 20 – 24, and 37 – 49) drawn to a system and method for exchanging information among personal information aggregators; and the claims of Group III (claims 26 – 36) drawn to a system and method for sending notifications to different devices. The Examiner contends that that the groups are distinct and independent from each other.

ELECTION

Although not necessarily agreeing with the Examiner's restriction requirement and grouping of claims, Applicants hereby elect **Group II (claims 20 – 24, and 37 – 49)** for initial prosecution in this application.

Examination and an early Notice of Allowance of at least claims 20 – 24, and 37 – 49 are respectfully requested.

Date: 4/22/10 By: _____

Andrew W. Spicer
Registration No. 57,420
Carlineo, Spicer & Kee, LLC
2003 South Easton Road, Suite 208
Doylestown, PA 18901
267-880-1720

Customer No.: 81712

Patent Owner Exhibit 2008, Page 192 of 355

Electronic Acknowledgement Receipt

EFS ID:	7466000
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	22-APR-2010
Filing Date:	26-OCT-2007
Time Stamp:	13:18:09
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	Response to Election / Restriction Filed	RCL-005-2_Restriction_Response.pdf	644654 4f40024db7d348611c387b85399f82f0c9943937	no	2

Warnings:

Information:

Total Files Size (in bytes):	644654

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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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. 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	Filing Date	☐ To be Mailed
11/924,711	10/26/2007	

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	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			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 $250 ($125 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/22/2010	(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 ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 49	Minus	** 49	= 0	X $ =		OR	X $52=	0
Independent (37 CFR 1.16(h))	* 7	Minus	***7	= 0	X $ =		OR	X $220=	0
☐ 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	0

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

Legal Instrument Examiner:
/PATRICIA F. LEWIS/

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PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/924,711	10/26/2007	

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	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			X $ =	
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☐ 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/22/2010	(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 ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 49	Minus	** 49	= 0	X $ =		OR	X $52=	0
Independent (37 CFR 1.16(h))	* 7	Minus	***7	= 0	X $ =		OR	X $220=	0
☐ 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	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
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))									
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Legal Instrument Examiner:
/PATRICIA F. LEWIS/

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Application or Docket Number	Filing Date	☐ To be Mailed
11/924,711	10/26/2007	

APPLICATION AS FILED – PART I

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☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			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 $250 ($125 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/22/2010	(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 ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 29	Minus	** 29	= 0	X $ =		OR	X $52=	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
☐ 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	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
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	

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Legal Instrument Examiner:
/PATRICIA F. LEWIS/

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☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
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* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/22/2010	(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 ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 29	Minus	** 29	= 0	X $ =		OR	X $52=	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
☐ 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	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
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☐ 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/22/2010	(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 ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
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☐ 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	0

AMENDMENT	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
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☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

81712 7590 06/22/2010

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

EXAMINER	
HU, JINSONG	

ART UNIT	PAPER NUMBER
2454	

MAIL DATE	DELIVERY MODE
06/22/2010	PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	11/924,711	CONA ET AL.	
	Examiner	Art Unit	
	JINSONG HU	2454	

-- 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* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, 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 *22 April 2010*.

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

3)☐ 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

4)☒ Claim(s) *1-49* is/are pending in the application.

4a) Of the above claim(s) *1-19 and 25-36* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *20-24 and 37-49* is/are rejected.

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

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

Application Papers

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

10)☐ 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *11/7/07, 3/2/10*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Response to Restriction Requirement filed on 4/22/10 is acknowledged. Claims 20-24 and 37-49 are elected without traverse Claims 1-19 and 25-36 are withdrawn from consideration.

2. Applicant is required to update the specification for the latest status of the cross-reference cited on the specification.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 20-24 and 27-49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 20, the limitation "one or more projections of nodes" is not well defined, i.e., what the projection refers to, what the relationship exists between "projection" and "occurrence of a situation", what the relationship exists between “projection” and “node”. The limitation of “multi-dimensional personal information network" is also not well defined. Furthermore, it is not clearly understood who performs

the steps of “obtaining a geographic location” and “forming one or more projections of nodes”.

As per claim 22, it is uncertain whether the claim indicates a subset of the nodes in the first projection is also a subset in the nodes of the second projection.

As per claim 37, as noted above, the limitation "one or more projections of nodes" is not well defined, i.e., what the projection refers to, what the relationship exists between "projection" and "occurrence of a situation", what the relationship exists between “projection” and “node”. The limitation of “multi-dimensional personal information network" is also not well defined. Furthermore, it is not clearly understood who performs the steps of “obtaining a geographic location” and “forming one or more projections of nodes”.

As per claim 42, it is not clearly understood the relationship among “a first device”, “at least one subset of a plurality of individual” and “a plurality of second device”.

Allowable Subject Matter

4. Claims 20-24 and 37-49 are not rejected under prior art.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jinsong Hu whose telephone number is (571) 272-3965. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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/Jinsong Hu/

Primary Examiner, Art Unit 2454

Notice of References Cited	Application/Control No. 11/924,711	Applicant(s)/Patent Under Reexamination CONA ET AL.	
	Examiner JINSONG HU	Art Unit 2454	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-7,266,558	09-2007	Gray, Michael D.	455/456.1
*	B	US-7,283,045	10-2007	Manz, Paul C.	340/506
*	C	US-7,672,281	03-2010	Humphries et al.	370/338
*	D	US-7,711,475	05-2010	Cona et al.	701/202
*	E	US-2002/0107029	08-2002	Caughran et al.	455/456
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	O					
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11924711	CONA ET AL.
	Examiner	Art Unit
	JINSONG HU	2454

✓	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	06/18/2010								
	1	N								
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								
	10	N								
	11	N								
	12	N								
	13	N								
	14	N								
	15	N								
	16	N								
	17	N								
	18	N								
	19	N								
	20	✓								
	21	✓								
	22	✓								
	23	✓								
	24	✓								
	25	N								
	26	N								
	27	N								
	28	N								
	29	N								
	30	N								
	31	N								
	32	N								
	33	N								
	34	N								
	35	N								
	36	N								

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CLAIM		DATE								
Final	Original	06/18/2010								
	37	✓								
	38	✓								
	39	✓								
	40	✓								
	41	✓								
	42	✓								
	43	✓								
	44	✓								
	45	✓								
	46	✓								
	47	✓								
	48	✓								
	49	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	11924711	CONA ET AL.
	Examiner	Art Unit
	JINSONG HU	2454

SEARCHED			
Class	Subclass	Date	Examiner
709	203, 206, 206, 223	6/14/10	JH
370	338	6/14/10	JH
455	456	6/14/10	JH

SEARCH NOTES		
Search Notes	Date	Examiner
Class search on EAST.	6/14/10	JH
Text search on EAST.	6/14/10	JH
Interference search on EAST.	6/14/10	JH

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
709	203, 206, 206, 223	6/14/10	JH
370	338	6/14/10	JH
455	456	6/14/10	JH

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	HU, Jinsong
Attorney Docket Number	RCL-005-2

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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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	20050033511		2005-02-10	Pechatnikov et al.	
	2	20050096840		2005-05-05	Simske, Steven J.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	HU, Jinsong
	Attorney Docket Number	RCL-005-2

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

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Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	Cona, Thomas
Art Unit	TBD
Examiner Name	Unknown
Attorney Docket Number	RCL-005-2

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	6	6785681	B2	2004-08-31	Keskar, et al	
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	Art Unit	TBD
	Examiner Name	Unknown
	Attorney Docket Number	RCL-005-2

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	10	7181346	B1	2007-02-20	Kleist et al	
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	1	20050132016		2005-06-16	Boone	

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	Art Unit	TBD
	Examiner Name	Unknown
	Attorney Docket Number	RCL-005-2

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	2	Web Pages, Send Word Now; http://www.sendwordnow.com, July 19, 2007, 11 pgs.	☐
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	4	"Notify!/Severe Weather Alerts" Web Pages; www.weather.com, July 12, 2007, 5 pgs.	☐
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	10	Dane County Department of Emergency Management Warning System, October 23, 2006, www.countyofDane.com, 10 pgs.	☐
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	First Named Inventor	Cona, Thomas
	Art Unit	TBD
	Examiner Name	Unknown
	Attorney Docket Number	RCL-005-2

	12	HARRISON, Jeff, "Location Based Social Networking for Crisis Management", 2006, www.thecarbonproject.com, 24 pgs.	☐
	13	Press Release, "WeatherBug and SendWordNow 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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Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	FLYNN, Nathan J.
Attorney Docket Number	RCL-005-2

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	1	20090254944		2009-10-08	Watson et al.	
	2	20020161838		2002-10-31	Pickover et al.	
	3	20020181684		2002-12-05	Logan, James D.	
	4	20030197615		2003-10-23	Loche et al.	
	5	20070161382		2007-07-12	Melinger et al.	

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	Art Unit	2454
	Examiner Name	FLYNN, Nathan J.
	Attorney Docket Number	RCL-005-2

	6	20070192116		2007-08-16	Lovitt, John H.	
	7	20070255785		2007-11-01	Hayashi et al.	
	8	20080046511		2008-02-21	Skrenta, Richard	
	9	20090015467		2009-01-15	Kwon et al.	

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	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	FLYNN, Nathan J.
	Attorney Docket Number	RCL-005-2

CERTIFICATION STATEMENT

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

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

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☐ 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	/aws/	Date (YYYY-MM-DD)	2010-09-10
Name/Print	Andrew W. Spicer	Registration Number	57,420

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EFS ID:	8392923
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Elizabeth McGinty
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	10-SEP-2010
Filing Date:	26-OCT-2007
Time Stamp:	13:57:23
Application Type:	Utility under 35 USC 111(a)

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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	RCL-005-2_IDS-9-10-10.pdf	612282 4cef7fadd31952e922038a021e0d6438e2b73d98	no	5

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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.:	1749	: Group Art Unit:	2454
Appln. No.:	11/924,711	: Examiner:	Nguyen, Dustin
Filing Date:	26 October 2007	: Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

AMENDMENT

This paper is being timely filed in response to the Office Action dated June 22, 2010, and is being timely filed by virtue of the accompanying Petition for Extension of Time (two-months), which extends the period available for reply through and including November 22, 2010.

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

Amendments to the Drawings:

The attached Replacement Sheet showing Fig. 35 replaces the original sheet labeled "35/45". Specifically:

Replacement Sheet "35/45" includes the original drawing, Fig. 35, with the position of the arrow and text designating the "search (Situation)" moved upwards to correctly identify and label the "search (Situation)". In addition, the text labeling the "requestConnect(Event Node)" is now clearly shown in Fig. 35. No new matter has been added by the corrections to this sheet.

Attachments: Replacement Sheet "35/45"

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REMARKS

Presently, claims 20 – 24, and 37 – 49 are pending in the application. The specification has been amended to include previously unknown application numbers of corresponding applications. Claims 20, 22 – 24, 37, 40, 47 and 49 have been amended. Support for the amendments to claims 20, 22, and 47 may be found, for example, in original claims 22 and 47, paragraphs 63, 155, 176 – 180 of the specification, and in Fig. 25. Claims 22, 23, 24, 37, 40, and 49 have been amended to correct formal and antecedent basis matters noted by Applicants. The drawings have been amended to correct a formal, typographical error noted by Applicants. No new matter has been added to the application by the foregoing amendments.

Allowable Subject Matter

The Examiner has indicated that claims 20 – 24, and 37 – 49 are not rejected under prior art. Applicants thank the Examiner for this indication of allowable subject matter.

Specification

The specification has been amended to include application numbers of the related applications. Accordingly, reference to the related applications is proper. No new matter has been added to the application by the amendments to the specification.

Drawings

In Replacement Sheet "35/45" submitted herewith, the drawings have been amended to correct typographical errors to Fig. 35. Specifically, Fig. 35 has been amended to correct the position of the arrow and text designating the "search(Situation)". Such arrow and accompanying text have been moved upwards to correctly identify and label the "search (Situation)". In addition, the text labeling the "requestConnect(Event Node)" is now clearly shown in Fig. 35.

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No new matter has been added to the application by the amendments to the drawings, and entry of the amendments to the drawings is respectfully requested.

Examiner Interview

Applicants and the undersigned thank Examiner Nguyen for the courtesies extended during a phone Interview conducted on October 26, 2010, to discuss the present application and Office Action. During the Interview, aspects and features related to the independent claims of the present application were discussed in view of the Examiner's 35 U.S.C. §112 (2nd paragraph) rejection of the claims.

Although no formal agreement was reached, Applicants' representative provided clarification for the Examiner regarding the feature(s) of the claims that the Examiner rejected under §112 (2nd paragraph). More specifically, Applicants' representative noted that the terms "projection of nodes" and "multi-personal information network" are well understood in view of the specification, and, therefore, amendment of the claims is not required. The Examiner requested that the formal response point out the relevant sections of the specification for his consideration in withdrawing the rejection. The amendments and remarks contained herein are thus consistent with those discussed during the Interview and seek to clarify Applicants' position in view of the Examiner's comments during the Interview.

Claim Rejections – 35 U.S.C. §112 (2nd paragraph)

The Examiner has rejected claims 20 – 24, and 37 – 49 under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicants respectfully traverse this rejection.

With respect to independent claim 20, the Examiner contends that, "the limitation 'one or more projections of nodes' is not well defined, i.e., what the projection refers to, what the relationship exists between 'projection' and 'occurrence of a situation', what the relationship exists between 'projection" and 'node'. The limitation of 'multi-dimensional

Patent Owner Exhibit 2008, Page 225 of 355

personal information network' is also not well defined. Furthermore, it is not clearly understood who performs the steps of 'obtaining a geographic location' and 'forming one or more projections of nodes'" (Office Action, page 2).

Regarding Examiner's contention that, "one or more projections of nodes" and "multi-personal information network" are not well defined, Applicants note that these terms are both clearly explained in the specification as discussed below, such that the terms as recited in the pending claims are definite. Thus, Applicants respectfully submit that further amendment to the claims to address these terms is not necessary to overcome the §112, second paragraph rejection.

Considering "multi-personal information network," Applicants generally refer the Examiner to at least paragraphs 70, and 112 – 116 of the specification for an explanation and examples of this term and features related thereto. More specifically, in paragraph 70:

> 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.

In paragraph 112, "[a]n 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." Applicants note that the equivalency of an N-dimensional social network (NDSN) and a multi-dimensional personal information network is established in both paragraphs 70 and 112.

Considering "one or more projections of nodes," Applicants refer the Examiner to at least paragraphs 114, 125, and 155 of the specification for an explanation and examples of this term and its features. More specifically, in paragraph 114, "[t]he NDSN

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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." Applicants note that the equivalency of "projected view" and "projection" is established in paragraph 155 by the statement, "a 'projected' view, also referred to as a projection."

Regarding the relationship between a projection and a node, Applicants refer the Examiner to paragraph 125, which states (emphasis added), "A user might desire to work with a 'projected' view, i.e., a subset of the nodes, of the NDSN 100."

Regarding the relationship between a projection and an occurrence of a situation, Applicants refer the Examiner to paragraph 155, which, referring to Fig. 30, states (emphasis added), "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 this example, the situation is flood waters, and nodes corresponding to participants of the situational network (established because of the potential for flooding) are included in a projection of the situational network due to their proximity to a threat of harm from the flood waters. See also Fig. 30.

Furthermore, although not believed to be necessary, Applicants have amended claim 20 to positively recite that the steps of "obtaining a geographic location" and "forming one or more projections of nodes" are performed "by the first personal information aggregator."

For the same reasons as described above with respect to claim 20, Applicants believe that the Examiner's §112 (2nd paragraph) rejection of claim 37 is overcome by the remarks presented herein.

Regarding dependent claim 22, the Examiner contends that, "it is unclear whether the claim indicates a subset of the nodes in the first projection is also a subset in the nodes of the second projection" (Office Action, page 3). Although not necessarily agreeing with the Examiner, Applicants have amended claim 22 to clearly recite,

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"wherein at least one of the nodes in the first projection is included in the second projection." Accordingly, the Examiner's rejection of claim 22 has been overcome.

Regarding independent claim 47, the Examiner contends that, "it is not clearly understood the relationship among 'a first device', 'at least one subset of the plurality of individual' and a 'plurality of second device' (Office Action, page 3). Although not necessarily agreeing with the Examiner, Applicants have amended claim 47 to clearly recite the relationship between the first and second devices. In particular, claim 47 now recites, "each of the second devices is configured to receive, via the situational network, one of the different notifications from the first device." Furthermore, Applicants note that in original claim 47, the "second device" are those devices belonging to or used by the plurality of individuals. As such, Applicants have also amended claim 47 to replace the plurality of individuals in original claim 47 with their respective (second) devices.

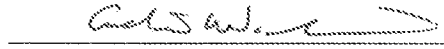
Therefore, claims 20, 22, 37, and 47 are believed to be in compliance with §112, second paragraph. Reconsideration and withdrawal of the Examiner's §112 (2nd paragraph) rejection of claims 20 – 24, and 37 – 49 are respectfully requested.

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Conclusion

In view of the foregoing remarks, Applicants respectfully submit that the Examiner's rejections have been overcome, and that the application, including claims 20 – 24, and 37 – 49, is in condition for allowance. Entry of the foregoing amendments, reconsideration and withdrawal of the Examiner's rejections and an early Notice of Allowance are respectfully requested.

Respectfully submitted,

Date: 11/18/10 By: 

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267-880-1720

Patent Owner Exhibit 2008, Page 229 of 355

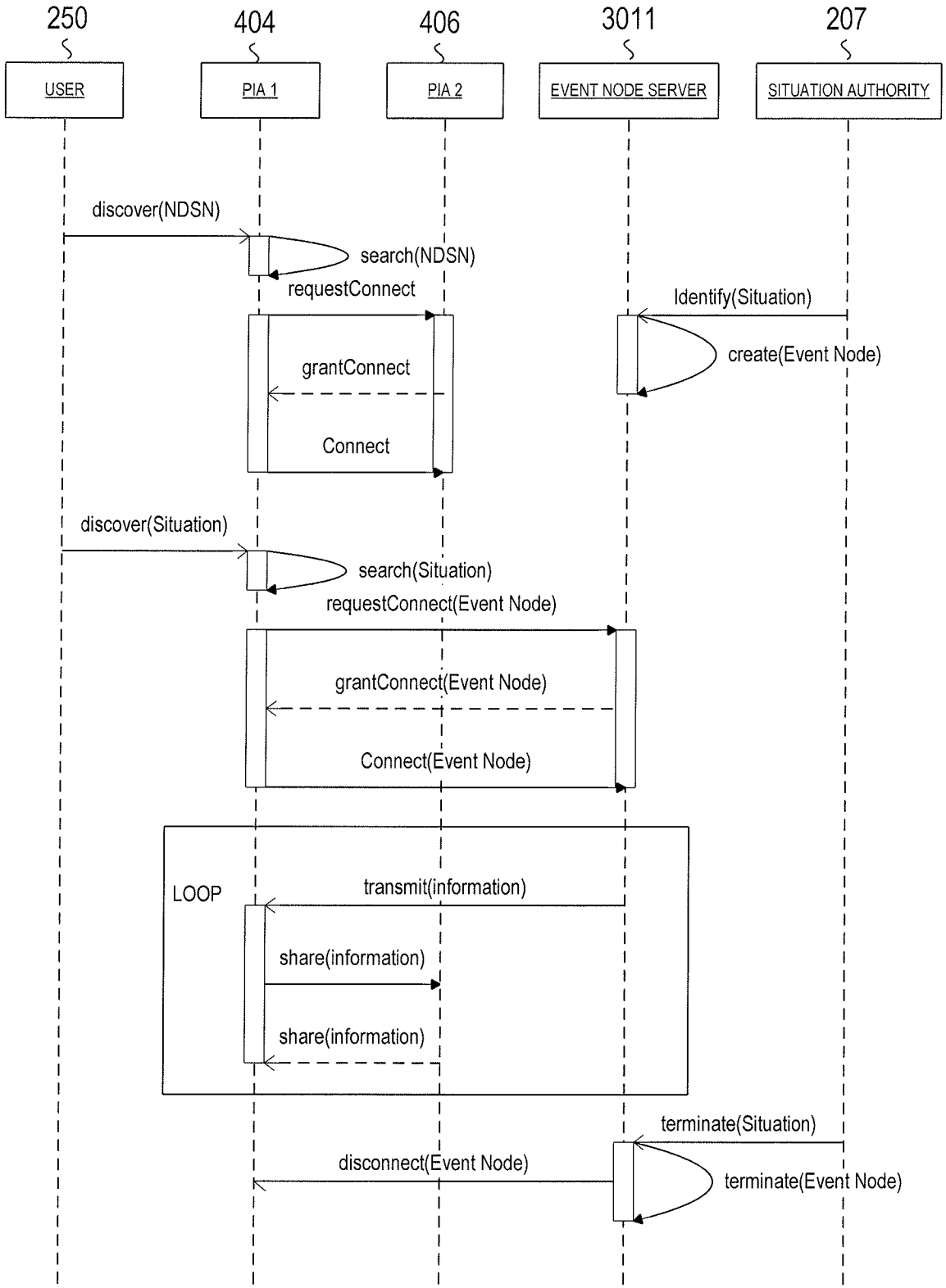

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406
3011
207
USER
PIA 1
PIA 2
EVENT NODE SERVER
SITUATION AUTHORITY
discover(NDSN)
search(NDSN)
requestConnect
Identify(Situation)
create(Event Node)
grantConnect
Connect
discover(Situation)
search(Situation)
requestConnect(Event Node)
grantConnect(Event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

Fig. 35

Electronic Acknowledgement Receipt

EFS ID:	8863621
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	18-NOV-2010
Filing Date:	26-OCT-2007
Time Stamp:	10:58:39
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-005-2_AMEND.pdf	3636771 ca9ecac196e04d77c361e031f1dde01fe98b8d47	yes	22

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Extension of Time	1	1
	Amendment/Req. Reconsideration-After Non-Final Reject	2	2
	Specification	3	3
	Claims	4	14
	Drawings-only black and white line drawings	15	15
	Applicant Arguments/Remarks Made in an Amendment	16	21
	Drawings-only black and white line drawings	22	22
Warnings:			
Information:			
	Total Files Size (in bytes):	3636771	

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

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

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

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona, et al.

Conf. No.:	1749	: Group Art Unit:	2454
Appln. No.:	11/924,711	: Examiner:	Nguyen, Dustin
Filing Date:	26 October 2007	: Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

PETITION FOR EXTENSION OF TIME UNDER 37 C.F.R. §1.136(a)

Applicant(s) in the above-identified application hereby petition(s) for a two-month extension of time to and including November 22, 2010, for responding to the Office Action mailed June 22, 2010. An Amendment in response to the Office Action accompanies this Petition.

☒ The Commissioner is hereby authorized to charge Deposit Account No. **504670** as noted below.

☒ Extension fee in the amount of $490.00.

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

Date: 11/18/10

Andrew W. Spicer
Registration No. 57,420
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267-880-1720
Customer No.: 81712

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	NGUYEN, Dustin
Attorney Docket Number	RCL-005-2

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					

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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	Vanttinen, Veijo	
	2	20040039807		2004-02-26	Boveda De Miguel, et al.	
	3	20050135428		2005-06-23	Hellgren, Vesa	
	4	20080139218		2008-06-12	Duan, Xiaoqin	
	5	20090024726		2009-01-22	Jeon et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
	Attorney Docket Number	RCL-005-2

	6	20090213001		2009-08-27	Appelman 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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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		☐

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

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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

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

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
	Attorney Docket Number	RCL-005-2

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	/aws/	Date (YYYY-MM-DD)	2010-11-18
Name/Print	Andrew W. Spicer	Registration Number	57,420

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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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.

Electronic Acknowledgement Receipt

EFS ID:	8865761
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Elizabeth McGinty
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	18-NOV-2010
Filing Date:	26-OCT-2007
Time Stamp:	13:52:27
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	RCL-005-2_IDS-11-18-10.pdf	612117 4d7ca65069a9af04c523602e1e6c9209b1213f76	no	4

Warnings:	
Information:	

Total Files Size (in bytes):	612117

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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.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
11/924,711	10/26/2007	

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☐		OR	OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			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 $250 ($125 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT	11/18/2010	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 29	Minus	** 29	= 0	X $ =		OR	X $52=	0
	Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
	☐ 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	0

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

Legal Instrument Examiner:
/JACQUELINE LANFORD/

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.

Amendments to the Specification:

Please replace paragraph [0004] with the following amended paragraph:

-- This application is also related to co-pending U.S. Patent Application No. 11/924,706[[_____, filed October 26, 2007, now U.S. Patent No. 7,812,717 and entitled *Situational Network*, ~~Attorney Docket No. RCL-005-1~~; U.S. Patent Application No. 11,924,721[[_____]], filed October 26, 2007, entitled *Location Based Services in a Situational Network*, ~~Attorney Docket No. RCL-005-3~~; U.S. Patent Application No. 11,924,727[[_____]], filed October 26, 2007, now U.S. Patent No. 7,711,475 and entitled *Use of a Situational Network for Navigation and Travel*, ~~Attorney Docket No. RCL-005-4~~; U.S. Patent Application No. 11/924,731[[_____]], filed October 26, 2007, entitled *Access of Information Using a Situational Network*, ~~Attorney Docket No. RCL-005-5~~; U.S. Patent Application No. 11/924,741[[_____]], filed October 26, 2007, entitled *Searchable Message Board*, ~~Attorney Docket No. RCL-005-6~~; and U.S. Patent Application No. 11/924,748[[_____]], filed October 26, 2007, entitled *Targeted Advertising in a Situational Network*, ~~Attorney Docket No. RCL-005-7~~. --

Amendments to and Listing of the Claims:

Please amend claims 20, 22 – 24, 37, 40, 47, and 49 as follows:

1. (withdrawn) A method of creating a projection of a situational network, the method comprising:

(a) creating, by an event node server, an event node in a multi-dimensional personal information network, the event node corresponding to a situation;

(b) forming a projection of nodes of the situational network using geographic locations of a plurality of devices corresponding to nodes in the multi-dimensional personal information network;

(c) transmitting an invitation to establish a link with the event node server to the devices corresponding to each node in the projection formed in step (b);

(d) receiving a response from at least one of the devices from step (c) accepting the invitation to establish a link with the event node server; and

(e) establishing a link with each device accepting the invitation.

2. (withdrawn) The method of claim 1, wherein the event node is created in response to identification of the situation by a situation authority.

3. (withdrawn) The method of claim 1, further comprising:

(f) providing the projection formed in step (b) to each device corresponding to the nodes in the projection that has established a link with the event node server.

4. (withdrawn) The method of claim 1, further comprising:

(f) providing a first set of information about the situation to each device corresponding to the nodes in the projection that has established a link with the event node server.

5. (withdrawn) The method of claim 4, wherein the first set of information in step (f) includes targeted advertisements.

6. (withdrawn) The method of claim 4, further comprising:

(f) receiving additional sets of information about the situation from at least one of the devices corresponding to the nodes in the projection that have established a link with the event node server; and

(g) distributing updated information about the situation based on the additional sets of information to the devices corresponding to the nodes in the projection that have established a link with the event node server.

7. (withdrawn) The method of claim 1, wherein the event node server forms one or more different projections of the nodes, each of the one or more projections receiving geographically relevant information from the event node server.

8. (withdrawn) The method of claim 1, wherein the device is a personal information aggregator.

9. (withdrawn) The method of claim 1, wherein the situation is a weather phenomenon.

10. (withdrawn) A method of creating a projection of a situational network, the method comprising:

(a) receiving, by a first device corresponding to a node in a multi-dimensional personal information network, an invitation to establish a link with an event node server in response to the first device being included in a projection of nodes of the multi-dimensional personal information network;

(b) transmitting a response accepting the invitation to establish a link with the event node server;

(c) establishing a link with the event node server; and.

(d) receiving information about the situation from the event node server.

11. (withdrawn) The method of claim 10, wherein the invitation is received based on a geographic proximity of the first device with other devices in the multi-dimensional personal information network.

12. (withdrawn) The method of claim 10, wherein the event node server corresponds to an event node of the situational network created in response to identification of the situation by a situation authority.

13. (withdrawn) The method of claim 10, further comprising:

(e) receiving the projection of the nodes of the situational network from step (a) from the event node server.

14. (withdrawn) The method of claim 13, further comprising:

(f) inviting at least one other device included in the projection to establish a link with the first device;

(g) connecting to the at least one other device from step (e) accepting the invitation; and

(h) sharing information related to the situation with the at least one other device.

15. (withdrawn) The method of claim 14, wherein the connections established in step (g) have an order of separation of one.

16. (withdrawn) The method of claim 14, wherein the connections established in step (g) are multi-dimensional.

17. (withdrawn) The method of claim 16, wherein at least one of the dimensions corresponds to the situation.

18. (withdrawn) The method of claim 17, wherein the dimension corresponding to the situation includes an affinity greater than affinity included along the other dimensions.

19. (withdrawn) The method of claim 10, further comprising:

(e) providing information about the situation to the event node server.

20. (currently amended) A method of creating a projection of a situational network, the method comprising:

(a) establishing, by a first personal information aggregator, a connection with one or more other personal information aggregators based on [[the]]an occurrence of a situation, each personal information aggregator corresponding to a node in a multi-dimensional personal information network;

(b) obtaining, by the first personal information aggregator, a geographic location for each of the one or more other personal information aggregators; and

(c) forming, by the first personal information aggregator, one or more projections of nodes of the multi-dimensional personal information network based on the geographic locations of each of the other personal information aggregators.

21. (original) The method of claim 20, further comprising:

(d) exchanging a first set of information about the situation with the other personal information aggregators corresponding to nodes in a first projection; and

(e) exchanging a second set of information about the situation with the other personal information aggregators corresponding to nodes in a second projection.

22. (currently amended) The method of claim 21[[20]], wherein ~~a subset~~ at least one of the nodes in the first projection [[are]]is included in ~~the nodes of~~ the second projection.

23. (currently amended) The method of claim 20, further comprising:

(d) providing one of the one or more projections to a subset of the other personal information aggregators.

24. (currently amended) The method of claim 20, wherein at least one of the ~~projection~~ projections of nodes includes an event-node established by a situation authority in response to an identification of the situation.

25. (withdrawn) A system for creating a projection of a situational network, the system comprising:

an event node server, corresponding to a situation authority, configured to create an event node in a multi-dimensional personal information network, the event node corresponding to a situation, form a projection of nodes of the situational network using geographic locations of a plurality of devices corresponding to nodes in the multi-dimensional personal information network, transmit an invitation to establish a link with the event node server to the device corresponding to each node in the projection, receive a response from at least one of the devices accepting the invitation to establish a link with the event node server, and establish a link with each device accepting the invitation; and

a plurality of devices configured to receive an invitation to establish a link with an event node server in response being included in a projection of nodes of the multi-dimensional personal information network, transmit a response accepting the invitation to establish a link with the event node server, and receive information about the situation from the event node server.

26. (withdrawn) A method of propagating information within a situational network, the method comprising:

(a) receiving a message with information related to a situation;

(b) determining at least one subset of a plurality of individuals to receive notifications corresponding to the situation, wherein the notifications include the message;

(c) generating a different notification for each of the at least one subsets of individuals; and

(d) transmitting, via the situational network, substantially simultaneously the different notifications to the at least one subset of individuals.

27. (withdrawn) The method of claim 26, further comprising:

(e) transmitting a reply to a sender of the message, wherein the reply is transmitted substantially simultaneously with the different notifications from step (d).

28. (withdrawn) The method of claim 26, wherein the situation is a weather phenomenon.

29. (withdrawn) The method of claim 26, wherein the message is created by a situation authority in response to obtaining an indication of the occurrence of the situation.

30. (withdrawn) The method of claim 26, wherein the message in created by a first individual in response to obtaining an indication of the occurrence of the situation.

31. (withdrawn) The method of claim 26, wherein the at least one subset of individuals is determined automatically based on the situation.

32. (withdrawn) The method of claim 26, wherein the at least one subset of individuals is pre-determined based on the situation.

33. (withdrawn) The method of claim 26, wherein the different notifications are generated by a first individual in response to receiving the message.

34. (withdrawn) The method of claim 33, wherein the different notifications are generated prior to the different notifications being transmitted to the at least one subset of individuals.

35. (withdrawn) The method of claim 26, wherein the different notifications are transmitted together using a single action on a device used to generate the different notifications.

36. (withdrawn) The method of claim 26, wherein the message is distributed using peer to peer connections between devices corresponding to the plurality of individuals.

37. (currently amended) A method of propagating information in a situational network, the method comprising:

(a) receiving by a second personal information aggregator from a first personal information aggregator, a message relating to a situation, the first and second personal information aggregators corresponding to [[a]] nodes in a multi-dimensional personal information network;

(b) automatically creating by the second personal information aggregator one or more projections of nodes of the multi-dimensional personal information network based on the situation; and

(c) transmitting, substantially simultaneously, notifications to a set of third personal information aggregators corresponding to the nodes of the one or more projections, wherein each projection receives a different notification.

38. (original) The method of claim 37, further comprising:

(d) transmitting, substantially simultaneously with the notifications in step (c), a reply to the first personal information aggregator.

39. (original) The method of claim 37, wherein the notifications include the message.

40. (currently amended) The method of claim 37[[38]], wherein the situation is a weather phenomenon.

41. (original) The method of claim 37, wherein the first personal information aggregator corresponds to an event node of the situational network established by a situation authority.

42. (original) The method of claim 37, wherein the nodes corresponding to the first personal information aggregator and the second personal information aggregator are separated by an order of one.

43. (original) The method of claim 37, wherein the nodes corresponding the second personal information aggregator and the set of third personal information aggregators are separated by an order of one.

44. (original) The method of claim 37, wherein the notifications are transmitted using a single action by a user of the second personal information aggregator.

45. (original) The method of claim 37, wherein each projection of nodes are related to the second personal information aggregator along a common dimension.

46. (original) The method of claim 37, wherein each of the one or more projections of nodes corresponds to a set of users with a shared interest with a user of the second personal information aggregator.

47. (currently amended) A system for propagating information within a situational network, the system comprising:

a first device configured to receive a message with information related to a situation, determine at least one subset of a plurality of ~~individuals~~ second devices to receive notifications corresponding to the situation, wherein the notifications include the message, generate a different notification for each of the at least one subset of the second devices ~~subsets of individuals~~, and transmit, via the situational network, substantially simultaneously the different notifications to the at least one subset of the second devices, ~~individuals; and~~

~~a plurality of second device,~~ wherein each of the second devices is ~~device corresponding to one of the plurality of individuals,~~ configured to receive, via the situational network, one of the different notifications from the first device.

48. (original) The system of claim 47, wherein the first device is a personal information aggregator.

49. (currently amended) The system of claim 47, wherein at least one of the ~~plurality of~~ second devices is a personal information aggregator.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	NGUYEN, Dustin
Attorney Docket Number	RCL-005-2

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	1	20060211404		2006-09-21	Cromp et al.	
	2	20070021981		2007-01-25	Cox, James	
	3	20070209054		2007-09-06	Cassanova, Jeffrey	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
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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	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
	Attorney Docket Number	RCL-005-2

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	/aws/	Date (YYYY-MM-DD)	2010-12-22
Name/Print	Andrew W. Spicer	Registration Number	57,420

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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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.

Electronic Acknowledgement Receipt

EFS ID:	9100019
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Elizabeth McGinty
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	22-DEC-2010
Filing Date:	26-OCT-2007
Time Stamp:	16:09:08
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Filed (SB/08)	RCL-005-2_IDS-12-22-10.pdf	612184 83d01622dbb4fbfe072ab62d3188f4780fcec a57	no	4

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

81712 7590 02/01/2011

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

EXAMINER	
NGUYEN, DUSTIN	
ART UNIT	PAPER NUMBER
2454	
MAIL DATE	DELIVERY MODE
02/01/2011	PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	11/924,711	CONA ET AL.	
	Examiner	Art Unit	
	DUSTIN NGUYEN	2454	

-- 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* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, 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 *18 November 2010*.

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

3)☐ 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

4)☒ Claim(s) *20-24 and 37-49* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *20-24 and 37-49* is/are rejected.

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

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

Application Papers

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

10)☐ 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).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

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).

a)☐ All b)☐ Some * c)☐ None of:

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) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *09/10/10, 11/18/10, 12/22/10*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Claims 20-24 and 37-49 are presented for consideration.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 37, 38, and 47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "substantially" in claims 37, 38, and 47 is a relative term which renders the claim indefinite. The term "substantially" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *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) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

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).

Claims 20-24 and 37-49 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-50 of U.S. Patent No. 7,812,717 [hereinafter as '717 patent]. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are claiming common subject matter.

The claims of '717 patent do not specifically state the claimed limitations in the similar order steps as described in the claims of instant application but it would have been obvious to a person skill in the art to recognize that the claims are similar since they are claiming the same invention.

As per independent claims 37 and 47, they are also directed to the same subject matter recited in claim 20 above. Accordingly, they are rejected under the judicially created doctrine of obviousness-type double patenting.

4. Claims 20-24 and 37-49 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-25 of copending Application No. 11/924721 [hereinafter '721 application], and claims 16-

25 of copending Application No. 11/924727 [hereinafter '727 application]. Although the conflicting claims are not identical, they are not patentably distinct from each other.

The claims of instant application do not specifically state the limitations in the same order steps as described in the claims of the '721 and '727 applications but it would have been obvious to a person skill in the art to recognize that the claims are similar because they are claiming the same invention.

As per independent claims 37 and 47, they are also directed to the same subject matter recited in claim 20 above. Accordingly, they are provisionally rejected under the judicially created doctrine of obviousness-type double patenting.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DUSTIN NGUYEN whose telephone number is (571)272-3971. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see 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). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DUSTIN NGUYEN/
Primary Examiner, Art Unit 2454

Notice of References Cited	Application/Control No. 11/924,711	Applicant(s)/Patent Under Reexamination CONA ET AL.	
	Examiner DUSTIN NGUYEN	Art Unit 2454	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2007/0021981	01-2007	Cox, James	705/002
*	B	US-2008/0086219	04-2008	Evans et al.	700/9
*	C	US-2005/0096840	05-2005	Simske, Steven J.	701/202
*	D	US-2005/0033511	02-2005	Pechatnikov et al.	701/210
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
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	N					
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NON-PATENT DOCUMENTS

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

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

Index of Claims

Application/Control No.	Applicant(s)/Patent under Reexamination
11/924,711	CONA ET AL.
Examiner	**Art Unit**
DUSTIN NGUYEN	2454

√	Rejected	–	(Through numeral) Cancelled	N	Non-Elected	A	Appeal
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Claim		Date								
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Search Notes	Application/Control No.	Applicant(s)/Patent under Reexamination	
	11/924,711	CONA ET AL.	
	Examiner	Art Unit	
	DUSTIN NGUYEN	2454	

SEARCHED			
Class	Subclass	Date	Examiner
705	2	1/27/2011	DN
700	9	1/27/2011	DN
701	202, 210	1/27/2011	DN

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
related applications	1/27/2011	DN

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	FLYNN, Nathan J.
Attorney Docket Number	RCL-005-2

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Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	2	20020161838		2002-10-31	Pickover et al.	
	3	20020181684		2002-12-05	Logan, James D.	
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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.N./

Patent Owner Exhibit 2008, Page 268 of 355

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	FLYNN, Nathan J.
	Attorney Docket Number	RCL-005-2

	6	20070192116		2007-08-16	Lovitt, John H.	
	7	20070255785		2007-11-01	Hayashi et al.	
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	9	20090015467		2009-01-15	Kwon et al.	

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	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	FLYNN, Nathan J.
	Attorney Docket Number	RCL-005-2

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First Named Inventor	CONA, Thomas
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Examiner Name	NGUYEN, Dustin
Attorney Docket Number	RCL-005-2

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	2	20040039807		2004-02-26	Boveda De Miguel, et al.	
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	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
	Attorney Docket Number	RCL-005-2

	6	20090213001		2009-08-27	Appelman et al.	

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	1	20060211404		2006-09-21	Cromp et al.	
	2	20070021981		2007-01-25	Cox, James	
	3	20070209054		2007-09-06	Cassanova, Jeffrey	
	4	20080086219		2008-04-10	Evans et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
	Attorney Docket Number	RCL-005-2

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.N./

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona, et al.

Conf. No.:	1749	: Group Art Unit:	2454
Appln. No.:	11/924,711	: Examiner:	Nguyen, Dustin
Filing Date:	26 October 2007	: Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

AMENDMENT

This paper is being timely filed in response to the Office Action dated February 1, 2011. Please amend the above-identified patent application, without prejudice, as follows:

Amendments to and Listing of the Claims:

Please amend claims 37, 38, and 47, and cancel claims 1 – 19, and 25 – 36 as follows:

1 – 19. (cancelled)

20. (previously presented) A method of creating a projection of a situational network, the method comprising:

(a) establishing, by a first personal information aggregator, a connection with one or more other personal information aggregators based on an occurrence of a situation, each personal information aggregator corresponding to a node in a multi-dimensional personal information network;

(b) obtaining, by the first personal information aggregator, a geographic location for each of the one or more other personal information aggregators; and

(c) forming, by the first personal information aggregator, one or more projections of nodes of the multi-dimensional personal information network based on the geographic locations of each of the other personal information aggregators.

21. (original) The method of claim 20, further comprising:

(d) exchanging a first set of information about the situation with the other personal information aggregators corresponding to nodes in a first projection; and

(e) exchanging a second set of information about the situation with the other personal information aggregators corresponding to nodes in a second projection.

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22. (previously presented) The method of claim 21, wherein at least one of the nodes in the first projection is included in the second projection.

23. (previously presented) The method of claim 20, further comprising:

(d) providing one of the one or more projections to a subset of the other personal information aggregators.

24. (previously presented) The method of claim 20, wherein at least one of the projections of nodes includes an event-node established by a situation authority in response to an identification of the situation.

25 – 36. (cancelled)

37. (currently amended) A method of propagating information in a situational network, the method comprising:

(a) receiving by a second personal information aggregator from a first personal information aggregator, a message relating to a situation, the first and second personal information aggregators corresponding to nodes in a multi-dimensional personal information network;

(b) automatically creating by the second personal information aggregator one or more projections of nodes of the multi-dimensional personal information network based on the situation; and

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(c) concurrently transmitting, ~~substantially simultaneously,~~ notifications to a set of third personal information aggregators corresponding to the nodes of the one or more projections, wherein each projection receives a different notification.

38. (currently amended) The method of claim 37, further comprising:

(d) concurrently transmitting, ~~substantially simultaneously~~ with the notifications in step (c), a reply to the first personal information aggregator.

39. (original) The method of claim 37, wherein the notifications include the message.

40. (previously presented) The method of claim 37, wherein the situation is a weather phenomenon.

41. (original) The method of claim 37, wherein the first personal information aggregator corresponds to an event node of the situational network established by a situation authority.

42. (original) The method of claim 37, wherein the nodes corresponding to the first personal information aggregator and the second personal information aggregator are separated by an order of one.

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43. (original) The method of claim 37, wherein the nodes corresponding the second personal information aggregator and the set of third personal information aggregators are separated by an order of one.

44. (original) The method of claim 37, wherein the notifications are transmitted using a single action by a user of the second personal information aggregator.

45. (original) The method of claim 37, wherein each projection of nodes are related to the second personal information aggregator along a common dimension.

46. (original) The method of claim 37, wherein each of the one or more projections of nodes corresponds to a set of users with a shared interest with a user of the second personal information aggregator.

47. (currently amended) A system for propagating information within a situational network, the system comprising:

a first device configured to receive a message with information related to a situation, determine at least one subset of a plurality of second devices to receive notifications corresponding to the situation, wherein the notifications include the message, generate a different notification for each of the at least one subset of the second devices, and concurrently transmit, via the situational network, ~~substantially simultaneously~~ the different notifications to the at least one subset of the second devices,

wherein each of the second devices is configured to receive, via the situational network, one of the different notifications from the first device.

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48. (original) The system of claim 47, wherein the first device is a personal information aggregator.

49. (previously presented) The system of claim 47, wherein at least one of the second devices is a personal information aggregator.

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REMARKS

Presently, claims 20 – 24, and 37 – 49 are pending in the application. In the interest of compact prosecution, claims 1 – 19, and 25 – 36, all previously withdrawn as being directed to non-elected embodiments, have been cancelled. Claims 37, 38, and 47 have been amended. No new matter has been added to the application by the foregoing amendments.

Applicants note that no prior art rejections have been applied against the pending claims. Thus, in view of the amendments submitted herewith and the remarks included below, Applicants respectfully submit that the claims are in condition for allowance.

Examiner Interview

Applicants and the undersigned thank Examiner Nguyen for the courtesies extended during a telephone Interview conducted on April 5, 2011, to discuss the present application. During the Interview, aspects and features related to the independent claims of the present application were discussed in view of the Examiner's 35 U.S.C. §112 (2nd paragraph) rejection of the claims. In addition, the double patenting rejections were discussed.

As a result of the Interview, Applicants' representative and the Examiner reached an agreement that the claims would be allowable provided that the term "substantially" was removed from claims 37, 38, and 47. Specifically, the Examiner suggested that Applicants amend the claims such that the term "concurrently" replaces "substantially simultaneously." The Examiner agreed to allow the claims provided that this change was made. Accordingly, the claims as amended herein reflect this change, and are believed to place the application in condition for allowance.

Applicants' representative and the Examiner also discussed the outstanding Double Patenting rejections. Applicants noted they would be willing to file a Terminal Disclaimer provided an agreement is reached on allowable claims. The Examiner stated that he would reconsider the Double Patenting rejections in view of Applicants'

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amendments, such that if the Double Patenting rejections are maintained, the Examiner would notify Applicants by telephone prior to issuing a new Office Action, thereby providing Applicants an opportunity to file a Terminal Disclaimer to place the application in condition for allowance.

The amendments and remarks contained herein are thus consistent with those discussed during the Interview and seek to clarify Applicants' position in view of the Examiner's comments during the Interview.

Claim Rejections – 35 U.S.C. §112 (2nd paragraph)

The Examiner has rejected claims 37, 38, and 47 under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicants respectfully traverse this rejection.

The Examiner contends that, "[t]he term 'substantially' in claims 37, 38, and 47 is a relative term which render the claim indefinite. The term 'substantially' is not defined by the claim, the specification does not provide a standard for ascertaining the requite degree" (Office Action, page 2).

Although not necessarily agreeing with the Examiner, Applicants have amended claims 37, 38, and 47, replacing the phrase "substantially simultaneously" with --concurrently--, as suggested by the Examiner.

Claims 37, 38, and 47 are believed to be in compliance with §112, second paragraph. Reconsideration and withdrawal of the Examiner's §112 (2nd paragraph) rejection of claims 37, 38, and 47 are respectfully requested.

Double Patenting Rejections

The Examiner has rejected claims 20 – 24 and 37 – 49 under the judicially created doctrine of obviousness-type double patenting. The Examiner asserts that claims 20 – 24

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and 37 - 49 are unpatentable over claims 1 – 50 of U.S. Patent No. 7,812,717 to Cona, et al. ("the '717 patent").

Furthermore, the Examiner has provisionally rejected claims 20 – 24 and 37 – 49 under the judicially created doctrine of nonstatutory obviousness-type double patenting. The Examiner asserts that claims 20 – 24 and 37 – 49 are unpatentable over claims 1 – 25 of co-pending application 11/924,721 (hereafter "the '721 application"), and claims 16 – 25 of co-pending application 11/924,727 (hereafter "the '727 application").

Although not necessarily agreeing with the Examiner, Applicants acknowledge the Examiner's double patenting rejections. As an initial matter, Applicants' respectfully note that the '727 application is now issued as U.S. Patent 7,711,475 (hereinafter, the '475 patent).

With respect to the '721 application, the present application and the '721 application were both filed on October 26, 2007. In accordance with MPEP 804.I.B.1, for applications filed on the same day, a provisional double patenting rejection for the base application can be withdrawn without a terminal disclaimer, while the provisional double patenting rejection for the improvement application cannot be withdrawn without a terminal disclaimer. Applicants respectfully request that the Examiner indicate which of the present application and the '721 application is the base application and which is the improvement application. If the present application is the base application, Applicants request that the Examiner withdraw the provisional double patenting rejection with respect to the '721 application. If the present application is the improvement application, Applicants would be willing to file a Terminal Disclaimer if doing so would result in the application being placed in condition for allowance.

Furthermore, in view of the 112, 2nd paragraph rejection in the present application, no Terminal Disclaimer is being filed at this time in the present application. As noted above, Applicants would be willing to file a Terminal Disclaimer with respect with respect to each of the '711 patent, the '727 application (as the '475 patent), and the '721 application, if doing so would result in the application being placed in condition for allowance. As such, when the Examiner agrees to allowable claims, Applicants respectfully

request that the Examiner re-submit the request for a Terminal Disclaimer based on the pending claims at that time, if the Examiner still believes that a Terminal Disclaimer is necessary.

Conclusion

In view of the foregoing remarks, Applicants respectfully submit that the Examiner's rejections have been overcome, and that the application, including claims 20 – 24, and 37 – 49, is in condition for allowance. Entry of the foregoing amendments, reconsideration and withdrawal of the Examiner's rejections and an early Notice of Allowance are respectfully requested.

Respectfully submitted,

Date: 4/11/11 By: _____

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

Patent Owner Exhibit 2008, Page 284 of 355

Electronic Acknowledgement Receipt

EFS ID:	9852040
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	11-APR-2011
Filing Date:	26-OCT-2007
Time Stamp:	15:20:21
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		RCL-005-2_AMEND.pdf	1353888 b57f7c70a96da9918e34684c130953d5235842da	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	6
	Applicant Arguments/Remarks Made in an Amendment	7	10
Warnings:			
Information:			
	Total Files Size (in bytes):	1353888	

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 (07-06)
Approved for use through 1/31/2007. 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	Filing Date	☐ To be Mailed
11/924,711	10/26/2007	

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	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =		OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =			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 $250 ($125 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			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 04/11/2011	(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 ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 18	Minus	** 29	= 0	X $ =		OR	X $52=	0
Independent (37 CFR 1.16(h))	* 3	Minus	***3	= 0	X $ =		OR	X $220=	0
☐ 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	0

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

Legal Instrument Examiner:
/PAMELA THERATT/

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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona, et al.

Conf. No.:	1749	: Group Art Unit:	2454
Appln. No.:	11/924,711	: Examiner:	Nguyen, Dustin
Filing Date:	26 October 2007	: Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

COMMUNICATION

This paper is being filed further to the Amendment filed on April 11, 2011, in response to the Non-Final Office Action dated February 1, 2011, in the above-identified patent application. A Terminal Disclaimer and Statement under 37 CFR §3.73(b) are being filed herewith.

Please consider the following remarks:

REMARKS

Claims 20 – 24, and 37 – 49 are currently pending in the present Application.

In a telephone conversation with Examiner Nguyen on June 8, 2011, the Examiner requested that Applicants file a Terminal Disclaimer in the present application against U.S. Patent No. 7,812,717 ("the '717 patent") and U.S. Patent No. 7,711,475 ("the '475 patent") to obviate Double Patenting rejection(s) against the claims of the present application as set forth in the non-final Office Action of February 1, 2011. Accordingly, Applicants have agreed to file a Terminal Disclaimer to advance prosecution and move the application toward allowance. It is Applicants understanding the Examiner's provisional double patenting rejection over co-pending Application No. 11/924,721 has been withdrawn.

No new matter is being added to the application by the present paper.

Terminal Disclaimer

Submitted herewith is a Terminal Disclaimer under 37 C.F.R. §1.321(b), stating that the '717 and '475 patents and the present application 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 '717 and '475 patents. A statement under 37 C.F.R. 3.73(b), showing chain of title of the present application, is also enclosed herewith. To the extent that any non-statutory double patenting rejections in view of the '717 and '475 patents are applied against the claims, reconsideration and withdrawal thereof is respectfully requested.

Conclusion

In view of the foregoing remarks, the Terminal Disclaimer and the Amendment filed on April 11, 2011, Applicants respectfully submit that the Application is in condition for allowance; a Notice of Allowance is respectfully requested. In the event that the Examiner cannot allow this application for any reason, the Examiner is encouraged to contact the undersigned attorney to discuss the resolution of any remaining issues.

Respectfully submitted,

Date: 6/13/11 By: _____

Andrew W. Spicer
Registration No. 57,420
Carlineo, Spicer & Kee, LLC
2003 South Easton Road, Suite 208
Doylestown, PA 18901
267-880-1720

Customer No.: 81712

Patent Owner Exhibit 2008, Page 290 of 355

Electronic Acknowledgement Receipt

EFS ID:	10290248
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	Creating a Projection of a Situational Network
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	13-JUN-2011
Filing Date:	26-OCT-2007
Time Stamp:	15:43:46
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-005-2_TD.pdf	2388427 23491be3ef5603563bc0e84c8d950e9b55093b29	yes	7

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Miscellaneous Incoming Letter	1	1
	Assignee showing of ownership per 37 CFR 3.73(b).	2	2
	Terminal Disclaimer Filed	3	4
	Supplemental Response or Supplemental Amendment	5	7

Warnings:	
Information:	
Total Files Size (in bytes):	2388427

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
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National Stage of an International Application under 35 U.S.C. 371
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New International Application Filed with the USPTO as a Receiving Office
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona, et al.

Conf. No.:	1749	: Group Art Unit:	2454
Appln. No.:	11/924,711	: Examiner:	Nguyen, Dustin
Filing Date:	26 October 2007	: Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

TERMINAL DISCLAIMER TRANSMITTAL LETTER

Submitted herewith is a Terminal Disclaimer and Statement of Common Ownership with respect to the above-identified patent application.

☒ Statement Under 37 CFR §3.73(b)

☒ The Commissioner is hereby authorized to charge Deposit Account No. **504670** as noted below.

☒ Statutory disclaimer fee in the amount of $140.00.

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

Respectfully submitted,

Date: 6/3/11

Andrew W. Spicer, Esquire
Reg. No. 57,420
Carlineo, Spicer & Kee, LLC
2003 South Easton Road, Suite 208
Doylestown, PA 18901
(267) 880-1720

Customer Number 81712

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona, et al.

Conf. No.:	1749	: Group Art Unit:	2454
Appln. No.:	11/924,711	: Examiner:	Nguyen, Dustin
Filing Date:	26 October 2007	: Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

STATEMENT UNDER 37 CFR §3.73(b)

Resource Consortium Limited, (a British Virgin Islands corporation) states that it is:

☒ the assignee of the entire right, title and interest; or

by virtue of:

☒ An assignment from THOMAS CONA, PATRICK T. IGOE and LEONID KRAVETS to RESOURCE CONSORTIUM LIMITED. The Assignment was recorded in the United States Patent and Trademark Office on February 11, 2008, at Reel 020490, Frame 0369, and,

☒ An assignment from EDWARD A. EHRLACHER to RESOURCE CONSORTIUM LIMITED. The Assignment was recorded in the United States Patent and Trademark Office on February 11, 2008, at Reel 020490, Frame 0396.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

6/13/11
Date

Andrew W. Spicer
Registration No. 57,420
Carlineo, Spicer & Kee, LLC
2003 South Easton Road, Suite 208
Doylestown, PA 18901
267-880-1720

Customer No.: 81712

Patent Owner Exhibit 2008, Page 294 of 355

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Patent Application of Thomas Cona, et al.

Conf. No.:	1749	: Group Art Unit:	2454
Appln. No.:	11/924,711	: Examiner:	Nguyen, Dustin
Filing Date:	26 October 2007	: Attorney Docket No.:	RCL-005-2

Title: Creating a Projection of a Situational Network

TERMINAL DISCLAIMER AND STATEMENT OF COMMON OWNERSHIP

In accordance with 37 C.F.R. § 1.321(b), Petitioner, Resource Consortium Limited, having a place of business at Craigmuir Chambers, Box 71, Road Town, Tortola, British Virgin Islands, represents that it is Assignee of the whole and entire right, title and interest in and to the above-identified application, which is related to U.S. Patent No. 7,812,717 ("the '717 patent") and U.S. Patent No. 7,711,475 ("the '475 patent"). The '717 patent was assigned to Petitioner by an Assignment recorded in the United States Patent and Trademark Office on January 15, 2008, at Reel 020363, Frame 0684. The '475 patent was assigned to Petitioner by an Assignments recorded in the United States Patent and Trademark Office on March 14, 2008 at Reel 020650, Frame 0314. The present application was assigned to Petitioner by an Assignment recorded in the United States Patent and Trademark Office on February 11, 2008, at Reel 020490, Frame 0369 and Reel 020490, Frame 0396. Based on a review of evidentiary documents relating to the chain of title from the original owner to Petitioner, the undersigned hereby certifies that to the best of their knowledge and belief, the present application and the '717 patent and '475 patent are commonly owned by Petitioner.

Petitioner hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the present application which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. § 154 and § 173 of the '717 and '475 patents. Petitioner hereby agrees that any patent so granted on the

present application shall be enforceable only for and during such period that it and the '717 and '475 patents are commonly owned. This agreement runs with any patent on the present application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, Petitioner does not disclaim any terminal part of any patent granted on the present application that would extend to the expiration date of the full statutory term defined in 35 U.S.C. § 154 and § 173 of the '717 and '475 patents, in the event that either of the '717 and '475 patents later: expires for failure to pay a maintenance fee, is held unenforceable or is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or is terminally disclaimed under 37 C.F.R. § 1.321, has all claims cancelled by a re-examination certificate, or is in any manner terminated prior to the expiration of its full statutory term.

The undersigned is empowered to act on behalf of Petitioner.

Respectfully submitted,

Date: 6/3/11

Andrew W. Spicer, Esquire
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Doylestown, PA 18901
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Customer Number 81712

Patent Owner Exhibit 2008, Page 296 of 355

Document code: WFEE

United States Patent and Trademark Office
Sales Receipt for Accounting Date: 06/20/2011

DLAWRENC SALE #00000001 Mailroom Dt: 06/13/2011 504670 11924711
01 FC : 1814 140.00 DA

Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
	11/924,711	CONA ET AL.	

Document Code - DISQ	Internal Document – DO NOT MAIL

TERMINAL DISCLAIMER	☒ APPROVED	☐ DISAPPROVED
Date Filed : 06/13/2011	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:
Dorethea Lawrence

U.S. Patent and Trademark Office

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

81712 7590 07/11/2011

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

EXAMINER
NGUYEN, DUSTIN

ART UNIT	PAPER NUMBER
2454	

DATE MAILED: 07/11/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

TITLE OF INVENTION: CREATING A PROJECTION OF A SITUATIONAL NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$0	$0	$1510	10/11/2011

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 SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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.

Patent Owner Exhibit 2008, Page 299 of 355

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)

81712 7590 07/11/2011

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

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.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

TITLE OF INVENTION: CREATING A PROJECTION OF A SITUATIONAL NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1510	$0	$0	$1510	10/11/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, DUSTIN	2454	709-200000

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 credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

❑ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

❑ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information 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.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

81712 7590 07/11/2011

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

EXAMINER	
NGUYEN, DUSTIN	

ART UNIT	PAPER NUMBER
2454	

DATE MAILED: 07/11/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 311 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 311 day(s).

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 Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Patent Owner Exhibit 2008, Page 301 of 355

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.
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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 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.	Applicant(s)	
	11/924,711	CONA ET AL.	
	Examiner	Art Unit	
	DUSTIN NGUYEN	2454	

-- 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 *04/11/2011*.

2. ☒ The allowed claim(s) is/are *20-24, 37-49, now renumbered as 1-18*.

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

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ 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. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/DUSTIN NGUYEN/
Primary Examiner, Art Unit 2454

Notice of References Cited	Application/Control No. 11/924,711	Applicant(s)/Patent Under Reexamination CONA ET AL.	
	Examiner DUSTIN NGUYEN	Art Unit 2454	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2009/0030927	01-2009	Cases et al.	707/102
	B	US-			
	C	US-			
	D	US-			
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	F	US-			
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims

Application/Control No.	Applicant(s)/Patent under Reexamination
11/924,711	CONA ET AL.
Examiner	**Art Unit**
DUSTIN NGUYEN	2454

√	Rejected	–	(Through numeral) Cancelled	N	Non-Elected	A	Appeal
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Claim		Date								
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Wireless sensor network **node** with asynchronous architecture and ...
portal.acm.org/citation.cfm?id=1107818
by Y Ammar - 2005 - Cited by 35 - Related articles
Advanced design techniques for **size** reduction, such as fractal techniques will be **.....** For example, coupling a piece of cardboard with a steerable camera - **projector** . **...** It can be dynamically organized like a tree based on **geographical .....** An abstract context model in the form of a **situation network** is used to **...**

[PDF] PhD Thesis
theses.gla.ac.uk/2559/01/2011AhmedNphd.pdf
File Format: PDF/Adobe Acrobat - Quick View
by NAS Ahmed - 2011
new channel assignment technique based on regular low-**dimensional** hypergraph **...** average network latency for large number of communication **nodes**. **.....** 4.2 Stochastic **projection** of Noise, 1- Choosing S/N, 2- Getting corres- ponding BER, 3- Calculate λ = 1 **.....** In this **situation, network** capacity can be fully used. **...**

[PDF] CEN/TC 278 Public transport Service interface for real-time ...
www.kizoom.com/.../CEN%20TS_00278181-5-SX-Extension_E_-v20.pdf
File Format: PDF/Adobe Acrobat
In IFOPT a PLACE may be of **dimension** 3 and be further associated with a LEVEL. **....** A method is needed to relate the links and **nodes** of the road network model **....** 5.3.5 DIST#05 **Projection** of Situations on maps **.....** key aspects such as nature of **situation, network** and location scope, advice, etc. It would indeed **...**

[PDF] Improving Simulation for Network Research * Sandeep Bajaj, Lee ...
ilab.cs.byu.edu/zappala/pubs/usc-cs-tr-99-702.pdf
File Format: PDF/Adobe Acrobat - Quick View
by S Bajaj - 1999 - Cited by 276 - Related articles
size and scope, and as a result new protocols and al- gorithms are being developed to meet changing opera - **....** network **nodes**, can be a powerful tool in protocol design. **....** simulations at small scale before **projecting** results at larger scales [21]. **...** In the converse **situation, network** element behavior **...**

Future Army Bandwidth Needs
www.scribd.com › Research › Internet & Technology - Cached
The chapter concludes with a summary, which includes a **projection** of the emerging .... Capacity (per-**node**) will still diminish as the network **size** grows. ..... Bandwidth Techniques Depends on Operational **Situation (Network** Topology) Highly ... antennas) complicate mobility by requiring **geographical** knowledge of the ...

[PDF] Supporting video-mediated communication over the Internet
citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.112.6537...
File Format: PDF/Adobe Acrobat
by M Johanson - 2003 - Cited by 2 - Related articles
(i.e. hosts at large **geographical** distances from the sender). ..... range 100 kbps to 6 Mbps. In contrast to the unicast **situation, network** utilization ..... relative **size** and lighting that can be conveyed by a 2D **projection**, true stereo- ..... or the routing system can be updated to reflect the **node's** current ...

Data-Driven 3D Traffic Views with the View Based on User-Selected ...
www.faqs.org/patents/app/20110131597 - Cached
Jun 2, 2011 – In an error **situation (network** problems, etc. .... If the **node** higher up in the tree is moved, all of the **nodes** ... Each .dxf file is a 2D representation of the map using a square-**projection** where x=longitude and y=latitude for ..... This bitmap has the same **dimensions** as the texture dynamically ...

[PDF] OneFIT D3.1
83.212.238.249/onefitdeliverables/OneFIT_D3.1_20110331_Full.pdf
File Format: PDF/Adobe Acrobat - Quick View
Mar 31, 2011 – The section depicts also the **projection** of C4MS onto the OneFIT ..... to provide information such as policies, resources, **node** capabilities (e.g. supported RATs), ... The **size** of the C4MS data which can be transmitted using the ..... **situation, network** policies, etc at different **geographical** ...

[PDF] Flexible and Spectrum-Aware Radio Access through Measurements and ...
www.ict-faramir.eu/fileadmin/user.../FARAMIR-D2.1-Final.pdf
File Format: PDF/Adobe Acrobat
by IF Akyildiz - 2010 - Related articles
cognitive radio domain knowledge of individual **node** locations is not ..... This spatial **dimension** embedded in the AOA **dimension** (in other words, multi-antenna ..... load **situation, network** policies, etc at different **geographical** locations . ..... **Projection**," IEEE Trans. ASSP, Vol. 36, No. 10, October 1988. ...

Cognitive Radio and Software Defined Radio: Signal Processing ...
ieeexplore.ieee.org/iel5/4620123/4632536/04632753.pdf?arnumber...
by H Arslan - Cited by 1 - Related articles
dimensional signal analysis, and location and environment aware- **...** on the radio environment, user's **situation, network** condition, **geographical** location, etc. On the other hand, **....** multiple signal attributes in once by using **projection** onto **....** other available networks (infrastructures) and **nodes**, local **...**

1 2 3 4 5 6 **Next**

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[XLS] cpci-s -
lib.hrbeu.edu.cn/new2004/UploadFile/.../1157cpci-s2010quannian511.xls
File Format: Microsoft Excel
High **dimensional** data is mapped into a low **dimensional** space with feature **projection**. **.....** Hao, Yanling, A Framework of Marine **Geography** Information System for Ship **....** In this paper, an improved algorithm of **node** refinement scheme called endpoint **.....** network security; security **situation; network** service; PCA **...**

Voip Small Business Solutions | VoIP-Business-Solutions.org - Page 4
voip-business-solutions.org/category/voip-small-business.../4/ - Cached
LANs are ideal for networking in a small **geographical** area and can either **...** Area Network (DAN) to the much, much bigger Global **Situation Network** (GAN). **....** all inter-**node** circuits. Next, you need to get a handle on the original **.....** Generally, a two-piece **projection** system (a **projector** and a screen) is more **...**

From ptnurmi at cs.helsinki.fi Fri Feb - Manage Mailing Lists
https://lists.cs.columbia.edu/pipermail/tccc/2008-February.txt - Cached
The font **size** must be at least 10 points. Please visit the Submission **.....** and with large data volumes * **Node** design including network processors, **.....** congestion **situation, network** topology, and wireless channel propagation etc. **.....** Early enthusiasm with the use of **projection**-based display structures and **...**

Ubiquitous Computing: Design, Implementation and Usability
www.scribd.com/.../Ubiquitous-Computing-Design-Implementation-and- Usability
Methods. when a **node** receives a packet to be transmitted. communication. **.....** Salvendy (Eds. such **dimensions** have to be thought of and displayed as continuous : all **.....** In this way. and **projection** keyboard. People do not always engage in **.....** Dieberger. which unfold in a particular **situation. network** and data **...**

[PDF] SINTEF REPORT
www.arktrans.no/?nid=6884&pid=arktrans-StyringssideArktrans..
File Format: PDF/Adobe Acrobat
corridors and Transfer **Nodes**. A Transfer **Node** is in this context a **.....** Provision of information about the traffic **situation (Network** and **.....** of information from hidden areas with radar, **projection** of pictures of the **.....** However it should be recognised that industry or **geography** constraints often require **...**

[PDF] Manuscript Nitesh_05_01_2011
bharosa.eu/wp-content/uploads/2010/05/Dissertation_Nitesh_Bharosa.pdf
File Format: PDF/Adobe Acrobat
mation system is that there is a significant 'human' **dimension** that **.....** tilayered **geographical** information systems transformed the processes in disaster **.....** the **projection** screen) as a library for two reasons: (1) they contained either **.....** this class diagram as a template for the network **situation network ...**

US Patent # 7765055. Data-driven traffic views with the view based ...
www.patents.com/us-7765055.html - Cached
In an error **situation (network** problems, etc.), the user can override the **....** For example, the characteristics of a **node** higher up in the tree are used to **...** using a square-**projection** where x=longitude and y=latitude for each point. **...** To create a third **dimension**, ground textures are stretched and landmarks 2501 **...**

[PDF] Technology Plan July 2009- June 2012
warrendale.heritageacademies.com/storage/4a4bca545c6bd_27413.pdf
File Format: PDF/Adobe Acrobat - Quick View
Set up and use an LCD **Projector**. 50. 65. Digital Camera/Video Camera **.....** Current **Situation Network** Resources. Through its association with NHA, WCA has access to several **...** available to a school its **size**. As described in both the Connectivity **...** history, **geography**, government. The Graph Club. Mathematics **...**

Georgia Tech > ETD 11062007 > herrera_luis_e_200712_phd (2009 04 ...
www.coursehero.com › Georgia - Cached
Node Density and Quality of Estimation for Infrastructure-based Indoor **.....** in a manufacturing decision-making **situation. Network** models facilitate the **...** the World Wide Web, **geographical** information systems, and medical systems. **...** one or more **dimension** hierarchies, slice & dice (selection and **projection**), **...**

[PDF] Navigating Distributed Services
orbit.dtu.dk/getResource?recordId=192146&objectId=1&versionId..
File Format: PDF/Adobe Acrobat
by B Beute - Cited by 3 - Related articles
Geography-based organisation is just one method, another could be time- **....** characteristic of an environment, and can differ widely in both **size** and form, for **.....** For a user-friendly **situation network** administration should no longer be a **.....** packets from one **node** to another. Thus, if a packet gets lost in a **...**

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EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	(("7812717") or ("7711475")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2011/06/20 15:40
S1	4	(multi$dimension$3 near4 personal near4 network) and geographic and project$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:32
S2	2	(multi$dimension$3 near4 personal near4 network near4 project$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:39
S3	3	(multi$dimension$3 and personal near4 network near4 project$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:39
S4	15	multi$dimension$3 and (personal near4 network) and (location near4 project$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:44
S5	10	multi$dimension$3 and (social near4 network) and (location near4 project$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:46
S6	6	multi$dimension$3 and (situation near4 network) and (location near4 project$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:49

S7	0	(multi$dimension$3 near4 situation near4 network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:50
S8	7	(multi$dimension$3 near4 social near4 network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:50
S9	71	(project$3 near4 social near4 network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:53
S10	39	(project$3 near4 social near4 network) and dimension$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	ON	2011/06/20 09:53

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S11	10	(multi$dimension $3 and personal near4 network near4 project$3)	USPAT; UPAD	OR	ON	2011/06/20 09:40
S12	11	multi$dimension $3 and (personal near4 network) and (location near4 project$3)	USPAT; UPAD	OR	ON	2011/06/20 09:41
S13	8	multi$dimension $3 and (social near4 network) and (location near4 project$3)	USPAT; UPAD	OR	ON	2011/06/20 09:47
S14	8	multi$dimension $3 and (situation near4 network) and (location near4 project$3)	USPAT; UPAD	OR	ON	2011/06/20 09:48

S15	16	(multi$dimension $3 near4 social near4 network)	USPAT; UPAD	OR	ON	2011/06/20 09:50
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21 Spatial Models for Wide-Area Visual Surveillance: Computational Approaches and Spatial Building-Blocks
Richard J. Howarth
April 2005 **Artificial Intelligence Review** , Volume 23 Issue 2
Publisher: Kluwer Academic Publishers
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 1

Spatial models play a key role when interpreting a dynamic and uncertain world for a wide-area surveillance application. This paper presents two different views to illustrate the range of spatial models. First, we take a top-d look, where we survey ...

Keywords: cellular topology, high-level computer vision, spatial reasoning, spatial representation, surveillance

22 Data clustering: a review
A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **Computing Surveys (CSUR)** , Volume 31 Issue 3
Publisher: ACM Request Permissions
Full text available: Pdf (636.24 KB)
Bibliometrics: Downloads (6 Weeks): 47, Downloads (12 Months): 3080, Downloads (Overall): 29267, Citation Count

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; t reflects its broad ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

23 Contextualization as an independent abstraction mechanism for conceptual modeling
Anastasia Analyti, Manos Theodorakis, Nicolas Spyratos, Panos Constantopoulos
March 2007 **Information Systems** , Volume 32 Issue 1
Publisher: Elsevier Science Ltd.
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 5

The notion of context appears in computer science, as well as in several other disciplines, in various forms. In this paper, we present a general framework for representing the notion of context in information modeling. First, we d a context as ...

Keywords: Abstraction mechanisms, Conceptual modeling, Contextualization, Inference rules, Model theory, Viewpoints

24 Adaptive Web SitesA Knowledge Extraction from Web Data Approach
Juan D. Velásquez, Vasile Palade
June 2008 Proceeding of the 2008 conference on Adaptive Web Sites: A Knowledge Extraction from Web Data App
Publisher: IOS Press
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

25 Geographic routing without location information
Ananth Rao, Sylvia Ratnasamy, Christos Papadimitriou, Scott Shenker, Ion Stoica
September 2003 **MobiCom '03:** Proceedings of the 9th annual international conference on Mobile computing and networking
Publisher: ACM Request Permissions
Full text available: Pdf (993.16 KB)
Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 181, Downloads (Overall): 2866, Citation Count: 1

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The protected working capacity envelope concept: an alternate paradigm for automated service provisioning

Grover, W.D.;
Communications Magazine, IEEE
Volume: 42 , Issue: 1
Digital Object Identifier: 10.1109/MCOM.2004.1262163
Publication Year: 2004 , Page(s): 62 - 69
Cited by: 12

IEEE JOURNALS

Competitive Transmission Path Assessment for Local Market Power Mitigation

Rahimi, F.; Mingxia Zhang; Hobbs, B.;
Power Engineering Society General Meeting, 2007. IEEE
Digital Object Identifier: 10.1109/PES.2007.385011
Publication Year: 2007 , Page(s): 1 - 6

IEEE CONFERENCES

Tomographic reconstruction using an adaptive tetrahedral mesh defined by a point cloud

Sitek, A.; Huesman, R.H.; Gullberg, G.T.;
Medical Imaging, IEEE Transactions on
Volume: 25 , Issue: 9
Digital Object Identifier: 10.1109/TMI.2006.879319
Publication Year: 2006 , Page(s): 1172 - 1179
Cited by: 1

IEEE JOURNALS

Cooperative Node Localization for Tactical Wireless Sensor Networks

Li Li,; Kunz, Thomas;
Military Communications Conference, 2007. MILCOM 2007. IEEE
Digital Object Identifier: 10.1109/MILCOM.2007.4455135
Publication Year: 2007 , Page(s): 1 - 7

IEEE CONFERENCES

Three-Dimensional Volume and Position Recovering Using a Virtual Reference Box

Kurka, P.R.G.; Rudek, M.;
Image Processing, IEEE Transactions on
Volume: 15 , Issue: 2
Digital Object Identifier: 10.1109/TIP.2006.888331
Publication Year: 2007 , Page(s): 573 - 576

IEEE JOURNALS

Throughput scaling in wireless networks with restricted mobility

Aurelie C. Lozano; Sanjeev R. Kulkarni; Pramod Viswanath;
Wireless Communications, IEEE Transactions on
Volume: 6 , Issue: 2
Digital Object Identifier: 10.1109/TWC.2007.05339

Publication Year: 2007 , Page(s): 670 - 679
Cited by: 2
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1 Review of combinatorial problems induced by spatial forest harvesting planning
Andres Weintraub, Alan T. Murray
April 2006 **Discrete Applied Mathematics** , Volume 154 Issue 5
Publisher: Elsevier Science Publishers B. V.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

In the last two decades forest planning and management has become very much focused on spatially oriented decisions, due to the introduction of spatial details, such as road building, and environmental concerns, like wildlife protection, biodiversity, ...

Keywords: Combinatorial algorithms, Environment, Spatial forestry

2 Visualizing geospatial data
Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM Request Permissions
Full text available: Pdf (14.01 MB)

Bibliometrics: Downloads (6 Weeks): 61, Downloads (12 Months): 422, Downloads (Overall): 4798, Citation Cour

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualiza (VIS) methods. These include:• ...

3 Communications of the ACM: Volume 51 issue 7
July 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (6.54 MB)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 17, Downloads (Overall): 4887, Citation Count

4 Qualitative Spatial Representation and Reasoning with the Region Connection Calculus
Anthony G. Cohn, Brandon Bennett, John Gooday, Nicholas Mark Gotts
October 1997 **Geoinformatica** , Volume 1 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

This paper surveys the work of the qualitative spatial reasoning group at the University of Leeds. The group ha developed a number of logical calculi for representing and reasoning with qualitative spatial relations over regions. We motivate the ...

Keywords: qualitative spatial reasoning, shape, spatial logics, topology, vague boundaries

5 MORA routing and capacity building in disruption-tolerant networks
Brendan Burns, Oliver Brock, Brian Neil Levine
June 2008 **Ad Hoc Networks** , Volume 6 Issue 4
Publisher: Elsevier Science Publishers B. V.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Disruption-tolerant networks (DTNs) differ from other types of networks in that capacity is created by the movements of network participants. This implies that understanding and influencing the participants' motions have a significant impact on network ...

Keywords: Autonomous agents, Disruption-tolerant networks, Multi-objective control, Routing

6 Generating node coordinates for shortest-path computations in transportation networks
Ulrik Brandes, Frank Schulz, Dorothea Wagner, Thomas Willhalm
December 2004 **Journal of Experimental Algorithmics (JEA)** , Volume 9
Publisher: ACM Request Permissions
Full text available: Pdf (606.24 KB)
Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 47, Downloads (Overall): 2696, Citation Count

Speed-up techniques that exploit given node coordinates have proven useful for shortest-path computations in transportation networks and geographic information systems. To facilitate the use of such techniques when coordinates are missing from some, ...

Keywords: Graph drawing, shortest paths, transportation networks, travel planning

7 Communications of the ACM: Volume 51 Issue 11
November 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (8.26 MB)
Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 24, Downloads (Overall): 2951, Citation Count

8 Optimal real-time sampling rate assignment for wireless sensor networks
Xue Liu, Qixin Wang, Wenbo He, Marco Caccamo, Lui Sha
May 2006 **Transactions on Sensor Networks (TOSN)** , Volume 2 Issue 2
Publisher: ACM Request Permissions
Full text available: Pdf (598.00 KB)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 71, Downloads (Overall): 1116, Citation Count:

How to allocate computing and communication resources in a way that maximizes the effectiveness of control signal processing, has been an important area of research. The characteristic of a multi-hop Real-Time Wireless Sensor Network raises new challenges. ...

Keywords: Sensor network, distributed algorithms, optimization, pricing, real-time wireless sensor network

9 Natural interaction in intelligent spaces: Designing for architecture and entertainment
Flavia Sparacino
July 2008 **Multimedia Tools and Applications** , Volume 38 Issue 3
Publisher: Kluwer Academic Publishers
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

The rapid evolution of computers' processing power, progress in projection and display technology, and their l cost, accompanied by recent advances in mathematical modeling, make available to space designers today sophisticated technologies which were ...

Keywords: Ambient intelligence, Intelligent architecture, Interactive entertainment, Interactive spaces

10 Performing space
Pedro Rebelo
August 2003 **Organised Sound** , Volume 8 Issue 2
Publisher: Cambridge University Press
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

This article discusses how the notion of performance provides impetus for the design of interactive digital environments. These environments can ultimately be regarded as user-spaces; a condition which replaces the 'fixed' art-object with ...

11 Relaxation in text search using taxonomies
Marcus Fontoura, Vanja Josifovski, Ravi Kumar, Christopher Olston, Andrew Tomkins, Sergei Vassilvitskii
August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 1

Publisher: VLDB Endowment

Full text available: PDF (507.67 KB)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 20, Downloads (Overall): 122, Citation Count: 4

In this paper we propose a novel document retrieval model in which text queries are augmented with multi-dimensional taxonomy restrictions. These restrictions may be relaxed at a cost to result quality. This new moc may be applicable in many arenas, ...

12 Workload-aware anonymization techniques for large-scale datasets

Kristen LeFevre, David J. DeWitt, Raghu Ramakrishnan

August 2008 **Transactions on Database Systems (TODS)** , Volume 33 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (1.39 MB)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 73, Downloads (Overall): 388, Citation Count: 6

Protecting individual privacy is an important problem in microdata distribution and publishing. Anonymization algorithms typically aim to satisfy certain privacy definitions with minimal impact on the quality of the resultin data. While much of the ...

Keywords: Databases, anonymity, data mining, performance, privacy, scalability

13 A comparison between complexity and temporal GIS models for spatio-temporal urban applications

Majeed Pooyandeh, Saadi Mesgari, Abbas Alimohammadi, Fouzbeh Shad

August 2007 **ICCSA'07: Proceedings of the 2007 international conference on Computational science an Its applications - Volume Part II** , Volume Part II

Publisher: Springer-Verlag

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Spatio-temporal modeling for urban applications has received special attention lately. Due to the recent advan in computer and geospatial technologies, the temporal aspect of urban applications which was ignored in conventional systems, is under consideration ...

Keywords: complexity models, spatio-temporal modeling, temporal GIS models, urban applications

14 interactions: Volume 15 Issue 3

May 2008 interactions

Publisher: ACM

Full text available: Digital Edition , Pdf (7.95 MB)

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 46, Downloads (Overall): 1323, Citation Count

15 Open-domain question: answering

John Prager

January 2006 **Foundations and Trends in Information Retrieval** , Volume 1 Issue 2

Publisher: Now Publishers Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

The top-performing Question-Answering (QA) systems have been of two types: consistent, solid, well-establis and multi-faceted systems that do well year after year, and ones that come out of nowhere employing totally innovative approaches and which ...

16 Economics and Electronic Commerce: Survey and Directions for Research

Robert J. Kauffman, Eric A. Walden

June 2001 **International Journal of Electronic Commerce** , Volume 5 Issue 4

Publisher: M. E. Sharpe, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

This article reviews the growing body of research on electronic commerce from the perspective of economic analysis. It begins by constructing a new framework for understanding electronic commerce research, then identifies the range of applicable theory ...

Keywords: Analytical Models Economics Economic Theory Electronic Markets Electronic Payments Empirical Models Information Goods Internet Economy Market Structure Software Agents Technology Investments

17 A framework for QoI-inspired analysis for sensor network deployment planning

Sadaf Zahedi, Chatschik Bisdikian

October 2007 **WICON '07:** Proceedings of the 3rd international conference on Wireless internet

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available: Pdf (262.02 KB)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 28, Downloads (Overall): 79, Citation Count: 1

The quality of information (QoI) that sensor networks provide to the applications they support is an important design goal for their deployment and use. In this paper, we introduce a layered framework for QoI-centered evaluation of sensor network deployment. ...

18 Handling High-Level Queries in Location-Based Services for User Groups
Panayotis Partsinevelos, Nectaria Tryfona
June 2006 **Geoinformatica** , Volume 10 Issue 2
Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

In this paper we deal with the high level management of data involved in Location-Based Services in order to accommodate corresponding queries. A series of techniques are employed on major components of an LBS, namely ...

Keywords: Generalization, Grouping, Location Based Services, Trend exposure

19 Ethical gaps in studies of the digital divide
Kenneth L. Hacker, Shana M. Mason
July 2003 **Ethics and Information Technology** , Volume 5 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: Publisher Site

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

There are many reports about the digital divide and many discrepant interpretations of what the reports indica This pattern of competing analyses, often in relation to identical data sets, has endured for a good part of the decade. It is argued ...

Keywords: CMC, ICT, Internet, digital divide, ethics

20 Appearance-Based Topological Bayesian Inference for Loop-Closing Detection in a Cross-Country Environment
Cheng Chen, Han Wang
October 2006 **International Journal of Robotics Research** , Volume 25 Issue 10
Publisher: Sage Publications, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

In this paper, an appearance-based environment modeling technique is presented. Based on this approach, th probabilistic Bayesian inference can work together with a symbolic topological map to relocalize a mobile robo One prominent advantage offered ...

Keywords: Bayesian, PCA, SLAM, appearance, loop-closing detection, topology

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	Examiner DUSTIN NGUYEN	Art Unit 2454

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(Assistant Examiner) (Date)	/DUSTIN NGUYEN/ 06/20/2011 (Primary Examiner) (Date)	Total Claims Allowed: 18	
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2	21		51		81		111		141		171		201
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	Examiner	Art Unit	
	DUSTIN NGUYEN	2454	

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Class	Subclass	Date	Examiner
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Class	Subclass	Date	Examiner
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707	102	6/17/2011	DN
345	419	6/17/2011	DN
340	8.1, 988	6/17/2011	DN

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(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	NGUYEN, Dustin
Attorney Docket Number	RCL-005-2

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	2	7523191		2009-04-21	Thomas et al.	
	3	6788766		2004-09-07	Logan, James D.	

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	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
	Attorney Docket Number	RCL-005-2

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	/aws/	Date (YYYY-MM-DD)	2011-09-13
Name/Print	Andrew W. Spicer	Registration Number	57,420

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.

Electronic Patent Application Fee Transmittal

Application Number:	11924711
Filing Date:	26-Oct-2007
Title of Invention:	CREATING A PROJECTION OF A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Filer:	Andrew W. Spicer/Elizabeth McGinty
Attorney Docket Number:	RCL-005-2

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt

EFS ID:	10940035
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	CREATING A PROJECTION OF A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Elizabeth McGinty
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	13-SEP-2011
Filing Date:	26-OCT-2007
Time Stamp:	17:28:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$180
RAM confirmation Number	4608
Deposit Account	504670
Authorized User	

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

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

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	RCL-005-2_IDS-9-13-11.pdf	612138 773960dd0e1226457b83374cbc42be02b99c458a	no	4
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30584 56c61432657978cb059ff393ef00da2146756665	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	642722		

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

New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

81712 7590 09/22/2011

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

EXAMINER	
NGUYEN, DUSTIN	
ART UNIT	PAPER NUMBER
2454	

MAIL DATE	DELIVERY MODE
09/22/2011	PAPER

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

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

UNITED STATES DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Address : COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
11/924,711	26 October 2007	CONA ET AL.	RCL-005-2

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

EXAMINER	
DUSTIN NGUYEN	
ART UNIT	**PAPER**
2454	20110915

DATE MAILED:

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

Commissioner for Patents

The Information Disclosure Statement (IDS) filed on 09/13/2011 had been considered and entered (please see attachment).

/DUSTIN NGUYEN/
Primary Examiner, Art Unit 2454

PTO-90C (Rev.04-03)

PTO/SB/08a (01-10)
Approved for use through 07/31/2012. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	11924711
Filing Date	2007-10-26
First Named Inventor	CONA, Thomas
Art Unit	2454
Examiner Name	NGUYEN, Dustin
Attorney Docket Number	RCL-005-2

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	6424840		2002-07-23	Fitch	
	2	7523191		2009-04-21	Thomas et al.	
	3	6788766		2004-09-07	Logan, James D.	

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	20030148774		2003-08-07	Naghian et al.	

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FOREIGN PATENT DOCUMENTS Remove

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

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.N./

Patent Owner Exhibit 2008, Page 334 of 355

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	11924711
	Filing Date	2007-10-26
	First Named Inventor	CONA, Thomas
	Art Unit	2454
	Examiner Name	NGUYEN, Dustin
	Attorney Docket Number	RCL-005-2

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

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		☐

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

EXAMINER SIGNATURE

Examiner Signature	/Dustin Nguyen/ (09/15/2011)	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.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.N./

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)

81712 7590 07/11/2011
Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

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.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

TITLE OF INVENTION: CREATING A PROJECTION OF A SITUATIONAL NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1740.00	$0	$0	$1740.00	10/11/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, DUSTIN	2454	709-200000

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 Carlineo, Spicer & Kee, LLC
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. Form PTO-2038 is attached.
☑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 504670 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date 10/5/11

Typed or printed name Andrew W. Spicer Registration No. 57,420

This collection of information 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.

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Electronic Acknowledgement Receipt

EFS ID:	11118341
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	CREATING A PROJECTION OF A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Andrew W. Spicer/Patti Hespell
Filer Authorized By:	Andrew W. Spicer
Attorney Docket Number:	RCL-005-2
Receipt Date:	05-OCT-2011
Filing Date:	26-OCT-2007
Time Stamp:	16:22:15
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	Issue Fee Payment (PTO-85B)	RCL-005-2_IF_PAYMENT.pdf	1534741 f9095cf28ae55611eb05e3fbfb08c7243910b746	no	1

Warnings:	
Information:	

Total Files Size (in bytes):	1534741

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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.

OPAP IAP6
OCT 05 2011
PATENT & TRADEMARK OFFICE

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)

81712 7590 07/11/2011
Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

10/06/2011 CCHAU2 00000002 504670 11924711

01 FC:1501 1740.00 DA

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.
11/924,711	10/26/2007	Thomas Cona	RCL-005-2	1749

TITLE OF INVENTION: CREATING A PROJECTION OF A SITUATIONAL NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	$1740.00	$0	$0	$1740.00	10/11/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, DUSTIN	2454	709-200000

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 Carlineo, Spicer & Kee, LLC
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. Form PTO-2038 is attached.
- ☑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 504670 (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)
- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date 10/5/11

Typed or printed name Andrew W. Spicer Registration No. 57,420

This collection of information 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.

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United States Patent and Trademark Office
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P.O. Box 1450
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www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/924,711	11/29/2011	8069202	RCL-005-2	1749

81712 7590 11/09/2011

Carlineo, Spicer & Kee, LLC
2003 S. Easton Road, Suite 208
Doylestown, PA 18901

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 700 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;
Patrick T. Igoe, Philadelphia, PA;
Leonid Kravets, Philadelphia, PA;
Edward A. Ehrlacher, Philadelphia, PA;

PTO/SB/81A (12-08)
Approved for use through 01/31/2018. OMB 0651-0035
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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PATENT - POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Patent Number	See Schedule A attached
Issue Date	See Schedule A attached
First Named Inventor	See Schedule A attached
Title	See Schedule A attached
Attorney Docket No.	See Schedule A attached

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the Customer Number identified in the box at right as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

01473

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified patent to:

☒ The address associated with the above-identified Customer Number.

OR

☐ The address associated with the Customer Number identified in the box at right:

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the:

☐ Inventor, having ownership of the patent.

OR

☒ Patent owner.

Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____.

SIGNATURE of Inventor or Patent Owner

Signature		Date	9-28-18
Name	GUY R. FRIDDELL III	Telephone	757-351-8802
Title and Company	PRESIDENT, RESOURCE CONSORTIUM LIMITED		

NOTE: Signatures of all the inventors or patent owners of the entire interest or their representative(s) are required. If more than one signature is required, submit multiple forms, check the box below, and identify the total number of forms submitted in the blank below.

☒ A total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public, which is to update (and by the USPTO to process) the file of a patent or reexamination proceeding. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 15 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.

SCHEDULE A

000137-0005-102

Total Assignments: 2
Application #:11924711 **Filing Dt:**10/26/2007 **Patent #:**8069202 **Issue Dt:**11/29/2011
PCT #:NONE **Intl Reg #:** **Publication #:**NONE **Pub Dt:**
Inventors: Thomas Cona, Patrick T. Igoe, Edward A. Ehrlacher, Leonid Kravets
Title:CREATING A PROJECTION OF A SITUATIONAL NETWORK

Assignment: 1
Reel/Frame:020490 / 0369 **Received:** 02/11/2008 **Recorded:** 02/11/2008 **Mailed:** 02/11/2008 **Pages:** 9
Conveyance:ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Assignors:CONA, THOMAS **Exec Dt:**11/26/2007
IGOE, PATRICK T. **Exec Dt:**01/31/2008
KRAVETS, LEONID **Exec Dt:**02/08/2008
Assignee:RESOURCE CONSORTIUM LIMITED
CRAIGMUIR CHAMBERS PO BOX 71
ROAD TOWN, TORTOLA, VIRGIN ISLANDS, BRITISH

Assignment: 2
Reel/Frame:020490 / 0396 **Received:** 02/11/2008 **Recorded:** 02/11/2008 **Mailed:** 02/11/2008 **Pages:** 3
Conveyance:ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Assignor:EHRLACHER, EDWARD A. **Exec Dt:**02/08/2008
Assignee:RESOURCE CONSORTIUM LIMITED
CRAIGMUIR CHAMBERS PO BOX 71
ROAD TOWN, TORTOLA, VIRGIN ISLANDS, BRITISH

Electronic Acknowledgement Receipt

EFS ID:	33912202
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	CREATING A PROJECTION OF A SITUATIONAL NETWORK
First Named Inventor/Applicant Name:	Thomas Cona
Customer Number:	81712
Filer:	Maxim Rapoport/Pamela Harrison
Filer Authorized By:	Maxim Rapoport
Attorney Docket Number:	RCL-005-2
Receipt Date:	04-OCT-2018
Filing Date:	26-OCT-2007
Time Stamp:	16:02:18
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	000137-0005-102_Statement.pdf	261437 272423b495a7844ef35894a5f760c713966c14ef	no	2

Warnings:

Information:					
2	Power of Attorney	000137-0005-102_POA.pdf	84942 06c5dd0fc2a32d596f80f771c428d4194eaaaa2b	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	346379	

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/96 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Resource Consortium Limited

Application No./Patent No.: See Attached Schedule A Filed/Issue Date: See Attached Schedule A

Titled: See Attached Schedule A

Resource Consortium Limited (Name of Assignee), a Corporation (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. [x] the assignee of the entire right, title, and interest in;

2. [ ] an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or

3. [ ] the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made) the patent application/patent identified above, by virtue of either:

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 therefore is attached.

OR

B. [x] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: See Attached Schedule A To: See Attached Schedule A
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: See Attached Schedule A To: See Attached Schedule A
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: See Attached Schedule A To: See Attached Schedule A
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).

[x] As required by 37 CFR 3.73(b)(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.

Signature — Date: 9-28-18

GUY R. FRIDDELL, III, PRESIDENT
Printed or Typed Name — Title

SCHEDULE A

000137-0005-102

Total Assignments: 2
Application #:11924711 **Filing Dt:**10/26/2007 **Patent #:**8069202 **Issue Dt:**11/29/2011
PCT #:NONE **Intl Reg #:** **Publication #:**NONE **Pub Dt:**
Inventors: Thomas Cona, Patrick T. Igoe, Edward A. Ehrlacher, Leonid Kravets
Title:CREATING A PROJECTION OF A SITUATIONAL NETWORK

Assignment: 1
Reel/Frame:020490 / 0369 **Received:** 02/11/2008 **Recorded:** 02/11/2008 **Mailed:** 02/11/2008 **Pages:** 9
Conveyance:ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Assignors:CONA, THOMAS **Exec Dt:**11/26/2007
IGOE, PATRICK T. **Exec Dt:**01/31/2008
KRAVETS, LEONID **Exec Dt:**02/08/2008
Assignee:RESOURCE CONSORTIUM LIMITED
CRAIGMUIR CHAMBERS PO BOX 71
ROAD TOWN, TORTOLA, VIRGIN ISLANDS, BRITISH

Assignment: 2
Reel/Frame:020490 / 0396 **Received:** 02/11/2008 **Recorded:** 02/11/2008 **Mailed:** 02/11/2008 **Pages:** 3
Conveyance:ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Assignor:EHRLACHER, EDWARD A. **Exec Dt:**02/08/2008
Assignee:RESOURCE CONSORTIUM LIMITED
CRAIGMUIR CHAMBERS PO BOX 71
ROAD TOWN, TORTOLA, VIRGIN ISLANDS, BRITISH

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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
11/924,711	10/26/2007	Thomas Cona	

CONFIRMATION NO. 1749

POA ACCEPTANCE LETTER

1473
Haley Guiliano LLP
75 Broad Street
Suite 1000
NEW YORK, NY 10004

OC000000102882724

Date Mailed: 10/09/2018

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/04/2018.

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**.

/nrhayden/

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/924,711	10/26/2007	Thomas Cona	RCL-005-2

CONFIRMATION NO. 1749

POWER OF ATTORNEY NOTICE

81712
Carlineo, Spicer & Kee, LLC
5890 Potters Lane
Pipersville, PA 18947

OC00000102882714

Date Mailed: 10/09/2018

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/04/2018.

- 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**.

/nrhayden/

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
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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	11/924,711 (Conf. No. 1749)
Filing Date	October 26, 2007
First Named Inventor	Thomas Cona
Title	CREATING A PROJECTION OF A SITUATIONAL NETWORK
Art Unit	2454
Examiner Name	Dustin Nguyen
Attorney Docket Number	000137-0005-102

SIGNATURE of Applicant or Patent Practitioner

Signature	/Maxim A. Rapoport/	Date	November 11, 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)

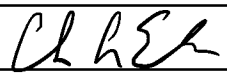
[ ] Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

[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.

PTO/SB/96 (11-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: SitNet LLC

Application No./Patent No.: 8,069,202 Filed/Issue Date: November 29, 2011

Titled: CREATING A PROJECTION OF A SITUATIONAL NETWORK

SitNet LLC, a corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☒ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

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 a copy* is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: See Attached Schedule 1 To: See Attached Schedule 1

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ *As required by 37 CFR 3.73(b)(1)(i), if a copy/copies is/are attached, 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.]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Maxim Rapoport/ November 11, 2022
Signature Date

Maxim Rapoport 67,675
Printed or Typed Name Title or Registration Number

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.

Assignments Data

Patent Assignment Abstract of Title

Total Assignments: 4

Application #: 11924711 **Filing Dt:** 10/26/2007 **Patent #:** 8069202 **Issue Dt:** 11/29/2011
PCT #: NONE **Intl Reg #:** **Publication #:** NONE **Pub Dt:**
Inventors: Thomas Cona, Patrick T. Igoe, Edward A. Ehrlacher, Leonid Kravets
Title: CREATING A PROJECTION OF A SITUATIONAL NETWORK

Assignment: 1

Reel/Frame: 020490 / 0369 **Received:** 02/11/2008 **Recorded:** 02/11/2008 **Mailed:** 02/11/2008 **Pages:** 9
Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Assignors: CONA, THOMAS **Exec Dt:** 11/26/2007
IGOE, PATRICK T. **Exec Dt:** 01/31/2008
KRAVETS, LEONID **Exec Dt:** 02/08/2008
Assignee: RESOURCE CONSORTIUM LIMITED
CRAIGMUIR CHAMBERS PO BOX 71
ROAD TOWN, TORTOLA, VIRGIN ISLANDS, BRITISH
Correspondent: TECHNOLOGY, PATENTS & LICENSING, INC.
2003 SOUTH EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901

Assignment: 2

Reel/Frame: 020490 / 0396 **Received:** 02/11/2008 **Recorded:** 02/11/2008 **Mailed:** 02/11/2008 **Pages:** 3
Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Assignor: EHRLACHER, EDWARD A. **Exec Dt:** 02/08/2008
Assignee: RESOURCE CONSORTIUM LIMITED
CRAIGMUIR CHAMBERS PO BOX 71
ROAD TOWN, TORTOLA, VIRGIN ISLANDS, BRITISH
Correspondent: TECHNOLOGY, PATENTS & LICENSING, INC.
2003 SOUTH EASTON ROAD
SUITE 208
DOYLESTOWN, PA 18901

Assignment: 3

Reel/Frame: 050091 / 0297 **Received:** 08/19/2019 **Recorded:** 08/19/2019 **Mailed:** 08/20/2019 **Pages:** 15
Conveyance: RE-DOMESTICATION AND ENTITY CONVERSION
Assignor: RESOURCE CONSORTIUM LIMITED **Exec Dt:** 06/21/2019
Assignee: RESOURCE CONSORTIUM LIMITED, LLC
1209 ORANGE STREET
CORPORATION TRUST CENTER
WILMINGTON, DELAWARE 19801
Correspondent: THE BELLES GROUP, P.C.
337 S. 18TH STREET
PHILADELPHIA, PA 19103

Assignment: 4

Reel/Frame: 061630 / 0693 **Received:** 11/02/2022 **Recorded:** 11/02/2022 **Mailed:** 11/03/2022 **Pages:** 7
Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
Assignor: RESOURCE CONSORTIUM LIMITED, LLC **Exec Dt:** 09/23/2022
Assignee: SITNET, LLC
8 THE GREEN
SUITE B
DOVER, DELAWARE 19901
Correspondent: HALEY GUILIANO LLP
75 BROAD STREET, SUITE 1000
NEW YORK, NY 10004

Search Results as of: 11/11/2022 03:39 PM

If you have any comments or questions concerning the data displayed, contact PRD / Assignments at 571-272-3350. v.2.6
Web interface last modified: Jun 26, 2017 v.2.6

Disclaimer:
Assignment information on the assignment database reflects assignment documents that have been actually recorded.
If the assignment for a patent was not recorded, the name of the assignee on the patent application publication or patent may be different.
If you have any comments or questions concerning the data displayed, contact OPR / Assignments at 571-272-3350

Close Window

Electronic Acknowledgement Receipt

EFS ID:	47010491
Application Number:	11924711
International Application Number:	
Confirmation Number:	1749
Title of Invention:	CREATING A PROJECTION OF 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:	000137-0005-102
Receipt Date:	11-NOV-2022
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Time Stamp:	18:54:01
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	000137-0005-102-poa.pdf	162885 4c2c45ae7dcc9d6d78951ed2b812a709a2c debf9	no	2

Warnings:

Information:					
2	Assignee showing of ownership per 37 CFR 3.73	000137-0005-102-373.pdf	469792 c97ca31b32e8743cd1e76b7954f06d17e1d51728	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	632677		

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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 NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/924,711	10/26/2007	Thomas Cona	000137-0005-102

CONFIRMATION NO. 1749

POA ACCEPTANCE LETTER

1473
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OC00000136850737

Date Mailed: 11/16/2022

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/11/2022.

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**.

/nrhayden/