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Application Number: 18883830 Document Date: 09/12/2024

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Meta EX1002
Meta v. SitNet
IPR2026-00101

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	000137-0005-129
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

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

Secrecy Order 37 CFR 5.2:

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

Inventor Information:

Inventor 1 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Thomas		Cona	

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

City	Athens	State/Province	GA	Country of Residence	US

Mailing Address of Inventor:

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

Inventor 2 Remove

Legal Name

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

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

City	Philadelphia	State/Province	PA	Country of Residence	US

Mailing Address of Inventor:

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

Inventor 3 Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Leonid		Kravets	

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

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	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

City	Philadelphia	State/Province	PA	Country of Residence	US

Mailing Address of Inventor:

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

Inventor 4 Remove

Legal Name

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

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

City	Philadelphia	State/Province	PA	Country of Residence	US

Mailing Address of Inventor:

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

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

Correspondence Information:

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

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

Customer Number	1473		
Email Address	HGPatentDocket@hglaw.com	Add Email	Remove Email

Application Information:

Title of the Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK		
Attorney Docket Number	000137-0005-129	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	45	Suggested Figure for Publication (if any)	

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Filing By Reference:

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

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

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

Publication Information:

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

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

Representative Information:

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

Please Select One:	◉ Customer Number	○ US Patent Practitioner	○ Limited Recognition (37 CFR 11.9)
Customer Number	1473		

Domestic Benefit/National Stage Information:

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

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	18/639871	2024-04-18

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	000137-0005-129
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

Prior Application Status	Abandoned		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
18/639871	Continuation of	17902427	2022-09-02

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17902427	Continuation of	16730339	2019-12-30	11470682	2022-10-11

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16730339	Continuation of	16207059	2018-11-30	10524307	2019-12-31

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16207059	Continuation of	16164715	2018-10-18	10375759	2019-08-06

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
16164715	Continuation of	15638722	2017-06-30	10117290	2018-10-30

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
15638722	Continuation of	14861340	2015-09-22	9877345	2018-01-23

Prior Application Status	Patented			Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
14861340	Continuation of	13612964	2012-09-13	9143535	2015-09-22

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

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

Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
11924711	Claims benefit of provisional	60887843	2007-02-02

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	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

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Foreign Priority Information:

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

Remove

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

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

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	000137-0005-129
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Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

Authorization or Opt-Out of Authorization to Permit Access:

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

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

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

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

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

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

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

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

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

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

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	000137-0005-129
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

Applicant Information:

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

Applicant 1 Remove

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

Clear

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

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

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☒

Organization Name	SitNet LLC		
Mailing Address Information For Applicant:			
Address 1	8 The Green, Suite B		
Address 2			
City	Dover	**State/Province**	DE
Country	US	Postal Code	19901
Phone Number		Fax Number	
Email Address			

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

Assignee Information including Non-Applicant Assignee Information:

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

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	000137-0005-129
	Application Number	
Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

Assignee 1

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

Remove

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

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

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

Signature:

Remove

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

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

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

Signature	/Maxim A. Rapoport/			Date (YYYY-MM-DD)	2024-09-12
First Name	Maxim	Last Name	Rapoport	Registration Number	67675

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

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Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	

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

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The 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 records.

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 CooperationTreaty.

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.

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation of 14/861,340, filed September 22, 2015, and entitled *Method and System for Using a Situational Network*, which is a continuation of 13/612,964 (now U.S. Patent No. 9,143,535), filed September 13, 2012, and entitled *Method and System for Using a Situational Network*, which is a continuation of U.S. Patent Application No. 13/274,712 (now U.S. Patent No. 8,332,454), filed October 17, 2011, and entitled *Creating a Projection of a Situational Network*, which is a divisional of U.S. Patent Application No. 11/924,711 (now U.S. Patent No. 8,069,202), filed October 26, 2007, and entitled *Creating a Projection of a Situational Network*, which claims the benefit of U.S. Provisional Patent Application No. 60/887,843, filed February 2, 2007, entitled *Situational Network*. The entire disclosure of each of these applications is incorporated herein by reference.

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

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

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

BRIEF DESCRIPTION OF THE DRAWINGS

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

[0005] In the Drawings:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DETAILED DESCRIPTION

[0051] Certain terminology is used herein for convenience only and is not to be taken as a limitation on the embodiments of the present invention. In the drawings, the same

reference letters are employed for designating the same elements throughout the several figures.

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

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

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

[0055] In the context of the situational network 3000, the participants may include external entities 207, also called situation authorities, central authorities or trusted providers, that generally are able to aggregate and provide comprehensive information related to the situation. Situation authorities 207 include, but are not limited to news organizations, such as news agencies (e.g., CNN), weather agencies (e.g., The Weather

Channel), traffic agencies (e.g., Traffic.com), emergency relief organizations (e.g., The American Red Cross), and government agencies (e.g., local fire departments, state Departments of Transportation, Federal Emergency Management Agency (FEMA)). There is a corresponding situation authority server 3011, also referred to as an event node server, for each situation authority 207. The situation authority server 3011 may be connected to a database 3020 for storing information related to the situation 3005, or data related to other participants in the SitNet 3000.

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

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

[0058] Examples of events or situations 3005 that might initiate the formation of a situational network include weather phenomenon, such as hurricanes, tornadoes, severe thunderstorms, or winter storms; emergency situations, such as building fires, aircraft crashes, or toxic substance releases; natural disasters, such as earthquakes, tsunamis, or floods; weather related activities, such as skiing or surfing; navigation and/or travel incidents, such as road closures or construction, vehicle accidents, traffic congestion,

roadway debris, or air turbulence; and public health crises, such as disease outbreak. Many of these event types are interrelated. For example, there a high correlation between vehicle accidents and freezing precipitation. Thus, it is possible to anticipate or pre-form a situational network based on an expected weather condition or forecast or anticipated road construction.

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

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

[0061] Referring to Fig. 36, the event relative embodiment of the SitNet has a dynamic set of user connections in which links between the participants in the situational network are added or removed as the situation or event changes its geographic location or as the user changes his position relative to the situation. User devices 404, 406 are connected into the situational network when it is determined that users of the devices 404, 406 are affected by the event or situation. Similarly, users are disconnected from the situational network as the event or situation moves away, the users move away from the situation, or the users are no longer determined to be affected by the event or situation. For example,

due to the uncertain nature of hurricane trajectory prediction, the list of users connected to the SitNet may change for each updated forecast of the hurricane, with users determined to be out of the projected hurricane path being disconnected from the SitNet while other users included in the projected hurricane path are added. As the hurricane passes, some users may be disconnected from the network if their area was not adversely affected, while those affected by the storm may remain connected to the SitNet or even be disconnected from the event relative SitNet and invited to connect to a different SitNet for those affected by the Hurricane, possibly requiring emergency assistance or aid by a relief agency.

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

university. A SitNet can be formed through connections established through the PIAs, possibly resulting in a personal meeting between the individuals.

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

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

[0065] Referring to Fig. 44, the situational network may also be formed using a decentralized architecture, such as a peer-to-peer network understood by one skilled in the art. In Fig. 44, user devices 402 of SitNet 3014 corresponding to users 250 are connected to each other through peer-to-peer connections 3015. The user device 402 may be connected at the same time to more than one other user device 402. Information related to the situation 3005 is shared using the user devices 402 directly between users

250 using the peer-to-peer connections 3015. Information can be distributed from a user 250 to all other users or a subset of the users in the SitNet 3014.

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

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

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

previously due to the inherent nature of the proximity SitNet. Nonetheless, those skilled in the art will recognize that a centralized or combination architecture may also be used for the proximity based SitNet depending on the particular situation and/or connections available.

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

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

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

information is bound and restricted by legal contract, and therefore, the user has legal remedies available to enforce proper use of the information.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

User 250, the PIA 400 notifies the External Entity 207 of the authorization by sending an accessGranted message with an argument specifying the nature of the authorization and identifying the authorized data feed.

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

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

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

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

feed to the PIA 400 by sending the provideData message to the PIA 400. After receiving the requested data from the External Entity 207, the PIA 400 stores the data.

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

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

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

[00103] The PIA 400 or CIA may be implemented on a variety of hardware and software platforms, e.g., a handheld device, a personal computer or a dedicated appliance. The latter is a device that provides a user with the functions of a PIA 400. In this example, the PIA 400, which is implemented as the appliance includes a display and a set of buttons which provide the user with a user interface. In addition, the PIA appliance in this example has a port which may be used for connecting the PIA appliance to a network

(e.g., Internet) for transmitting and receiving input and output data feeds as well as any configuration information or data used by the PIA 400. Those skilled in the art will recognize that the PIA 400 and the CIA may be implemented on a variety of hardware and software platforms.

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

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

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

[00107] In yet another embodiment, the personal information is stored in a remote server that is operated by a separate PIA provider and provides "virtual" PIA functions to one or more users. The PIA provider operating the remote computer ensures that the user has exclusive control over his personal information by providing one or more mechanisms for validating the user's identity before allowing the user to exercise control over his

personal information. In this embodiment, a DBMS such as IBM DB2™ or mySQL might be used for storing and managing the personal information

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

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

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

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

consumer-to-merchant) relationship and healthcare-relation (e.g., providers, insurers, etc.) to characterize the relationship between two or more users. In addition, the NDSN might utilize dimensions that link participants by preferences and behaviors, e.g., a preference for a type of product or service.

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

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

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

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

[00116] Referring to Fig. 12, the NDSN 100 includes multiple users 250 and other entities associated therewith. Each of the users 250 or other entities of the NDSN 100 has an associated node which encompasses a PIA 400 or a CIA 220 or other device or software application (not shown). The PIAs 400 and CIAs 220 can be interconnected through the computer network 900.

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

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

[00119] The NDSN 100 captures multiple various dimensions of the relationship between two users. The dimensions that are captured are wide-ranging and can cover many aspects of a user's life. Each relationship between two users in the NDSN 100 may have an attribute of affinity, i.e., trust or alignment. This permits the NDSN to characterize a relationship between users along a continuous range, rather than treating the relationships in a binary (i.e., true or false) fashion. For example, rather than characterizing another user as simply a friend (or not), the NDSN user can characterize

the level of trust that he has in another user with whom he is related by friendship; in other words the NDSN can capture the level of friendship between two users.

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

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

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

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

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

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

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

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

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

[00128] In some embodiments, a maximum measure of separation, which can be measured in various ways, may be used to limit the projection operation. In one

embodiment, the User 250 specifies the maximum degree of separation, and the PIA1 211 requests a second projection from PIA2 212 with a maximum degree of separation that is one less than the degree specified by the User 250.

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

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

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

[00132] A CIA may maintain a list of PIAs that can be accessed by another PIA such that direct connections to the member PIAs may be established. This would allow a member to easily find other members of a particular community. For example, a CIA associated with a chess club might have a list of its members, as well as lists of members

of other chapters of the club, and thus would be able to provide a convenient way to find and connect with other chess players.

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

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

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

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

[00137] To connect to members of the NDSN, a user employs the Connect use case 972 (see Fig. 13). In the example of Fig. 15, the User 250 asks PIA1 211 to connect to an NDSN by sending a ConnectNDSN message to PIA1 211 with arguments that contain his

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

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

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

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

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

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

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

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

[00145] The user 250 may configure the PIA to permit a connection for one or more specific user attributes between him and other users. In this manner, users can easily connect with each other based on common interests, demographics or other factors. A user employs the Configure use case 973 (see Fig. 13) to configure his NDSN node. For

example, a user may configure his PIA to allow connections to any PIA that belongs to a user who coaches volleyball.

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

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

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

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

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

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

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

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

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

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

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

[00154] Users connected to an event node of a SitNet in an NDSN through a PIA may also request a "projected" view, also referred to as a projection, of the SitNet using procedures described above. The projected view may be created by a server 3011 at an event node as shown in Fig. 38. After receiving the projection from the event node server 3011, the PIA 404 may established connections with another PIA 406 included in the projection. Alternately, the PIA 404 of user 250 or a PIA 406 of a different user connected to the SitNet may create the projection. The projected view may be created along one or several dimensions of the NDSN. A user may want to share information with only a subset of the total number of users connected to the situational network, and thus may request or create a projection representing those other users that the user has the most interest in sharing information. For example, the user might request a projection for a SitNet based on location, allowing or requesting a connection with only those users in a certain zip code. As another example, a traveler connected to an event node for accident may want a projected view of the SitNet based on final travel destination in order to share or solicit alternate travel routes around the accident. The user may also share the projection with other users connected to nodes contained in that projection. An example of a geographic projection 3050 of nodes of a SitNet 3000 is shown in Fig. 30. The SitNet 3000 includes the 10 nodes labeled (a) through (j). Nodes a, b, c, e, f, and i are

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CLAIMS

What is claimed is:

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

a network connection for receiving an indication of an occurrence of a situation;

a situational network formed based on the occurrence of the situation, the situational network including a plurality of participant devices determined to be geographically proximate to the situation, each of the participant devices corresponding to a participant in the situational network;

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

a plurality of network connections established for receiving a status response from the participant devices; and

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

ABSTRACT

A network system for accessing situation related information is disclosed. In one embodiment, the system includes a network connection for receiving an indication of an occurrence of a situation; a situational network formed based on the occurrence of the situation, the situational network including a plurality of participant devices determined to be geographically proximate to the situation, each of the participant devices corresponding to a participant in the situational network; a second network connection for presenting a roll call query to each of the plurality of participant devices soliciting a reply related to a status of the participant; a plurality of network connections established for receiving a status response from the participant devices; and a database for aggregating the status responses from responsive participants into a roll call list.

Docket No.: 000137-0005-129
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Cona et al.

Application No.: Not Yet Assigned | Confirmation No.: Not Yet Assigned

Filed: Concurrently Herewith | Art Unit: Not Yet Assigned

For: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK | Examiner: Not Yet Assigned

PRELIMINARY AMENDMENT UNDER 37 C.F.R. 1.115

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

Dear Madam:

INTRODUCTORY COMMENTS

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims begin on page 3 of this paper.

Remarks/Arguments begin on page 8 of this paper.

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0001] with the following amended paragraph:

[0001] This application is a continuation of 18/639,871, filed April 18, 2024, and entitled *Method And System For Using A Situational Network,* which is a continuation of 17/902,427 (now abandoned), filed September 2, 2022, and entitled *Method And System For Using A Situational Network,* which is a continuation of 16/730,339 (now U.S. Patent No. 11,470,682), filed December 30, 2019, and entitled *Method And System For Using A Situational Network,* which is a continuation of 16/207,059 (now U.S. Patent No. 10,524,307), filed November 30, 2018, and entitled *Method And System For Using A Situational Network,* which is a continuation of 16/164,715 (now U.S. Patent No. 10,375,759), filed October 18, 2018, and entitled *Method and System for Using a Situational Network*, which is a continuation of 15/638,722 (now U.S. Patent No. 10,117,290), filed June 30, 2017, and entitled *Method and System for Using a Situational Network*, which is a continuation of 14/861,340 (now U.S. Patent No. 9,877,345), filed September 22, 2015, and entitled *Method and System for Using a Situational Network*, which is a continuation of 13/612,964 (now U.S. Patent No. 9,143,535), filed September 13, 2012, and entitled *Method and System for Using a Situational Network*, which is a continuation of U.S. Patent Application No. 13/274,712 (now U.S. Patent No. 8,332,454), filed October 17, 2011, and entitled *Creating a Projection of a Situational Network,* which is a divisional of U.S. Patent Application No. 11/924,711 (now U.S. Patent No. 8,069,202), filed October 26, 2007, and entitled *Creating a Projection of a Situational Network*, which claims the benefit of U.S. Provisional Patent Application No. 60/887,843, filed February 2, 2007, entitled *Situational Network*. The entire disclosure of each of these applications is incorporated herein by reference.

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Canceled)

2. (New) A method of creating a situational network based on a projection from a multi-dimensional personal information network and for transmitting information related to a situation, the method comprising:

(a) creating, by an event node server, an event node in the multi-dimensional personal information network, wherein the multi-dimensional personal information network comprises member nodes, and the event node that corresponds to the situation, wherein the event node is discoverable by browsing the multi-dimensional personal information network;

(b) identifying a subset of the member nodes of the multi-dimensional personal information network based on geographic proximity to the situation of a plurality of devices corresponding to the member nodes in the multi-dimensional personal information network;

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

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

(e) establishing the respective link with each device accepting the invitation to form the situational network;

(f) identifying a target member node wherein the target member node is connected to at least one node of the subset of the member nodes via at least one dimension of the multi-dimensional personal information network; and

(g) transmitting information related to the situation to the identified target member node.

3. (New) The method of claim 2, wherein the target member node is directly connected to the at least one node of the subset of the member nodes by a single dimension.

4. (New) The method of claim 2, wherein the target member node is indirectly connected to the at least one node of the subset of the member nodes by a plurality of dimensions.

5. (New) The method of claim 4, wherein the target member node being indirectly connected to the at least one node of the subset of the member nodes comprises: the target member node being connected by a preference dimension to an additional node, and the at least one node of the subset of the member nodes being connected by the preference dimension to the additional node.

6. (New) The method of claim 2, wherein the identifying the target member node comprises identifying the target member node based on a dimension of the multi-dimensional personal information network other than interaction with the event node.

7. (New) The method of claim 2, wherein the identifying the target member node comprises identifying the target member node based on a dimension of the multi-dimensional personal information network that indicates a connection to another node that interacted with the event node.

8. (New) The method of claim 2, wherein the identifying the target member node comprises identifying the target member node based on a dimension of the multi-dimensional personal information network that indicates a connection to another node that established a link with the event node.

9. (New) The method of claim 2, wherein the identifying the target member node comprises identifying the target member node based on a dimension of the multi-dimensional personal information network that indicates a common dimension with another node that interacted with the event node.

10. (New) The method of claim 2, wherein the identifying the target member node comprises identifying the target member node based on a dimension of the multi-dimensional personal

information network that indicates a common dimension with another node, that is linked to the event node.

11. (New) A system of creating a situational network based on a projection from a multi-dimensional personal information network and for transmitting information related to a situation, the method comprising:

one or more central processing units of an event node server configured to:

(a) create an event node in the multi-dimensional personal information network, wherein the multi-dimensional personal information network comprises member nodes, and the event node that corresponds to the situation, wherein the event node is discoverable by browsing the multi-dimensional personal information network;

(b) identify a subset of the member nodes of the multi-dimensional personal information network based on geographic proximity to the situation of a plurality of devices corresponding to the member nodes in the multi-dimensional personal information network; and

one or more network controllers of the event node server configured to:

(c) transmit an invitation to establish a respective link with the event node to devices corresponding to each node in the subset formed in step (b); and

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

wherein the one or more central processing units are configured to:

(e) establish the respective link with each device accepting the invitation to form the situational network; and

(f) identify a target member node wherein the target member node is connected to at least one node of the subset of the member nodes via at least one dimension of the multi-dimensional personal information network; and

wherein the one or more network controllers are configured to:

(g) transmit information related to the situation to the identified target member node.

12. (New) The system of claim 11, wherein the target member node is directly connected to the at least one node of the subset of the member nodes by a single dimension.

13. (New) The system of claim 11, wherein the target member node is indirectly connected to the at least one node of the subset of the member nodes by a plurality of dimensions.

14. (New) The system of claim 13, wherein the target member node being indirectly connected to the at least one node of the subset of the member nodes comprises: the target member node being connected by a preference dimension to an additional node, and the at least one node of the subset of the member nodes being connected by the preference dimension to the additional node.

15. (New) The system of claim 11, wherein the one or more central processing units of an event node server are configured identify the target member node by identifying the target member node based on a dimension of the multi-dimensional personal information network other than interaction with the event node.

16. (New) The system of claim 11, wherein the one or more central processing units of an event node server are configured identify the target member node by identifying the target member node based on a dimension of the multi-dimensional personal information network that indicates a connection to another node that interacted with the event node.

17. (New) The system of claim 11, wherein the one or more central processing units of an event node server are configured identify the target member node by identifying the target member node based on a dimension of the multi-dimensional personal information network that indicates a connection to another node that established a link with the event node.

18. (New) The system of claim 11, wherein the one or more central processing units of an event node server are configured identify the target member node by identifying the target member node based on a dimension of the multi-dimensional personal information network that indicates a common dimension with another node that interacted with the event node.

19. (New) The system of claim 11, wherein the one or more central processing units of an event node server are configured identify the target member node by identifying the target member node based on a dimension of the multi-dimensional personal information network that indicates a common dimension with another node that is linked to the event node.

REMARKS

Applicant has amended the specification to update the priority claim. Applicant has cancelled claim 1 and added new claims 2-19. No new matter has been added and the new claims are fully supported by the originally filed application, at least in paragraphs [0055], [0064]-[0065], [0069], [0074], [0078], [0111], [0115], [0117], [0120], [0146], [0159], [0165]-[0168], [0170], and [0179].

An early and favorable action is respectfully requested.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 06-1075.

Dated: September 12, 2024

Respectfully submitted,

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

Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

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

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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

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LEGAL NAME OF INVENTOR

Inventor: Patrick T. Igoe Date (Optional): May 11, 2016

Signature: PTI

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LEGAL NAME OF INVENTOR

Inventor: Edward A. Ehrlacher Date (Optional): 5-9-2016

Signature: 

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

Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 18/639,871 filed on 2024-04-18.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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

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LEGAL NAME OF INVENTOR

Inventor: Thomas Cona Date (Optional) :

Signature: T. Cona

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Title of Invention	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

This statement is directed to:

☐ The attached application,

OR

☑ United States application or PCT international application number 18/639,871 filed on 2024-04-18

LEGAL NAME of inventor to whom this substitute statement applies:

(*E.g.*, Given Name (first and middle (if any)) and Family Name or Surname)

Leonid Kravets

Residence (except for a deceased or legally incapacitated inventor):

City	State	Country
Philadelphia	PA	US

Mailing Address (except for a deceased or legally incapacitated inventor):
2001 Hamilton Avenue

City	State	Zip	Country
Philadelphia	PA	19130	US

I believe the above-named inventor or joint inventor to be the original inventor or an original joint inventor of a claimed invention in the application.

The above-identified application was made or authorized to be made by me.

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

Relationship to the inventor to whom this substitute statement applies:

☐ Legal Representative (for deceased or legally incapacitated inventor only),

☑ Assignee,

☐ Person to whom the inventor is under an obligation to assign,

☐ Person who otherwise shows a sufficient proprietary interest in the matter (petition under 37 CFR 1.46 is required), or

☐ Joint Inventor.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

PTO/SB/AIA (0 -1)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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SUBSTITUTE STATEMENT

Circumstances permitting execution of this substitute statement

- ☐ Inventor is deceased,
- ☑ Inventor is under legal incapacity,
- ☐ Inventor cannot be found or reached after diligent effort, or
- ☐ Inventor has refused to execute the oath or declaration under 37 CFR 1.63.

If there are joint inventors, please check the appropriate box below:

- ☑ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) naming the entire inventive entity has been or is currently submitted.

OR

- ☐ An application data sheet under 37 CFR 1.76 (PTO/AIA/14 or equivalent) has not been submitted. Thus, a Substitute Statement Supplemental Sheet (PTO/AIA or equivalent) naming the entire inventive entity and providing inventor information is attached. See 37 CFR 1.64(b).

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

Name: Charles A. Eldering | Date Optional: 15MAY24

Signature: Charles Eldering

APPLICANT NAME AND TITLE OF PERSON EXECUTING THIS SUBSTITUTE STATEMENT:

If the applicant is a juristic entity list the applicant name and the title of the signer:
SitNet LLC

Applicant Name:

Title of Person Executing This Substitute Statement: MANAGER

The signer whose title is supplied above is authorized to act on behalf of the applicant

Residence of the signer unless provided in an application data sheet PTO AIA or equivalent

City	State	Country
Dover	DE	US

Mailing Address of the signer unless provided in an application data sheet PTO AIA or equivalent

8 The Green, Suite B

City	State	Zip	Country
Dover	DE	19901	US

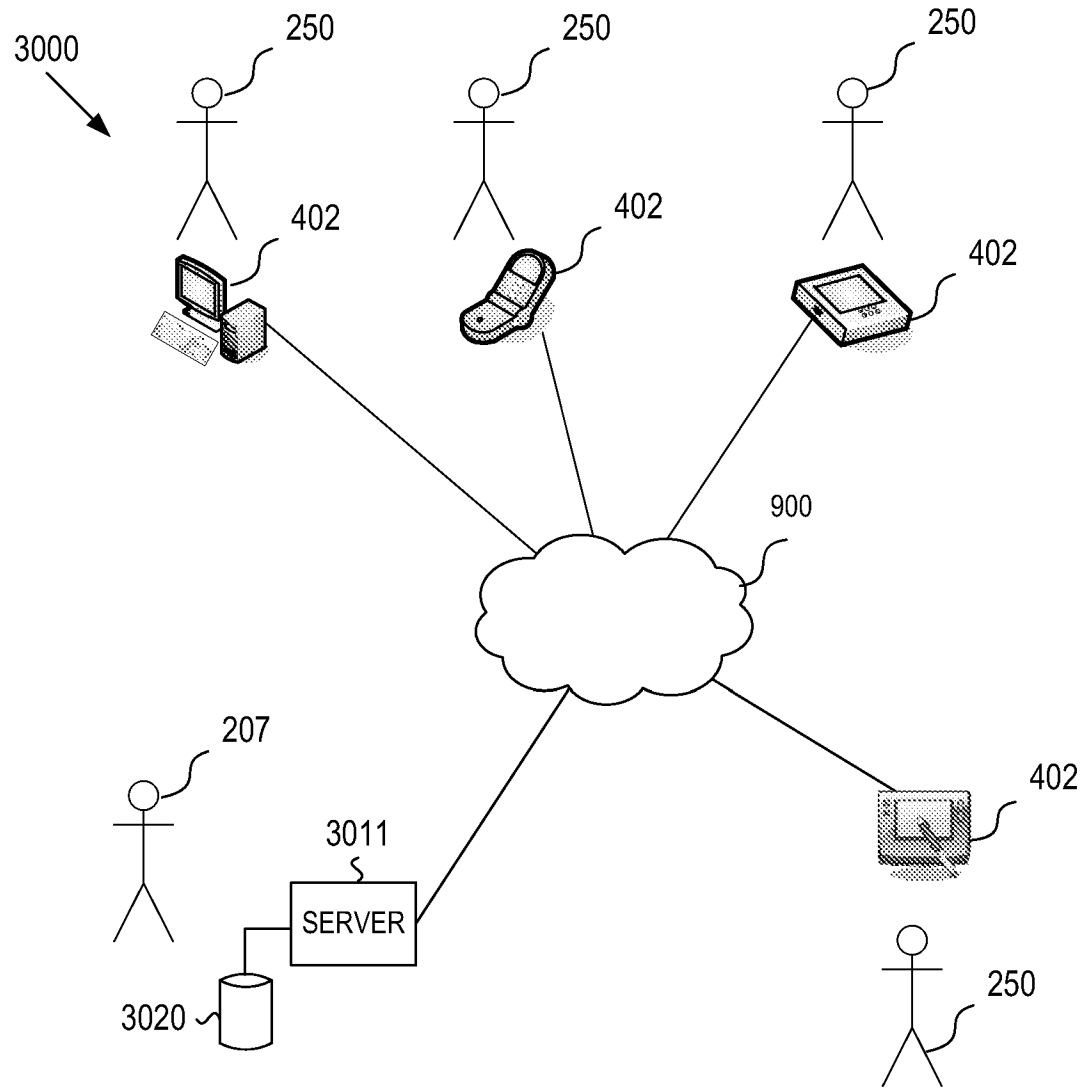
Note Use an additional PTO AIA form for each inventor who is deceased legally incapacitated cannot be found or reached after diligent effort or has refused to execute the oath or declaration under CFR

Privacy Act Statement

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

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

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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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.


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

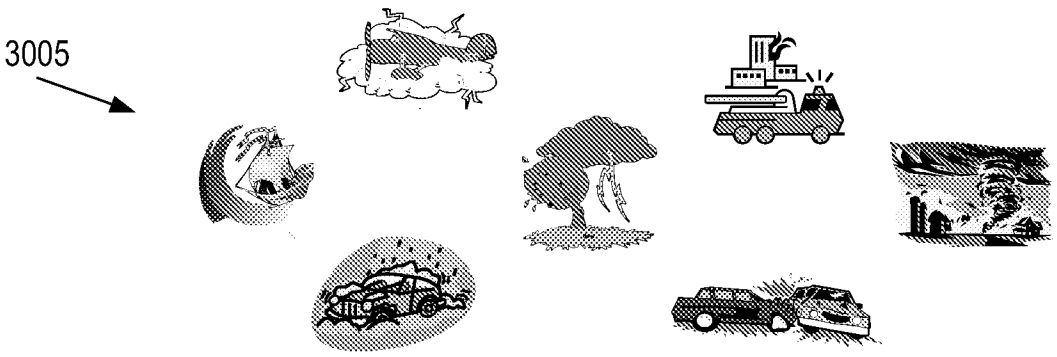

3005

Fig. 1

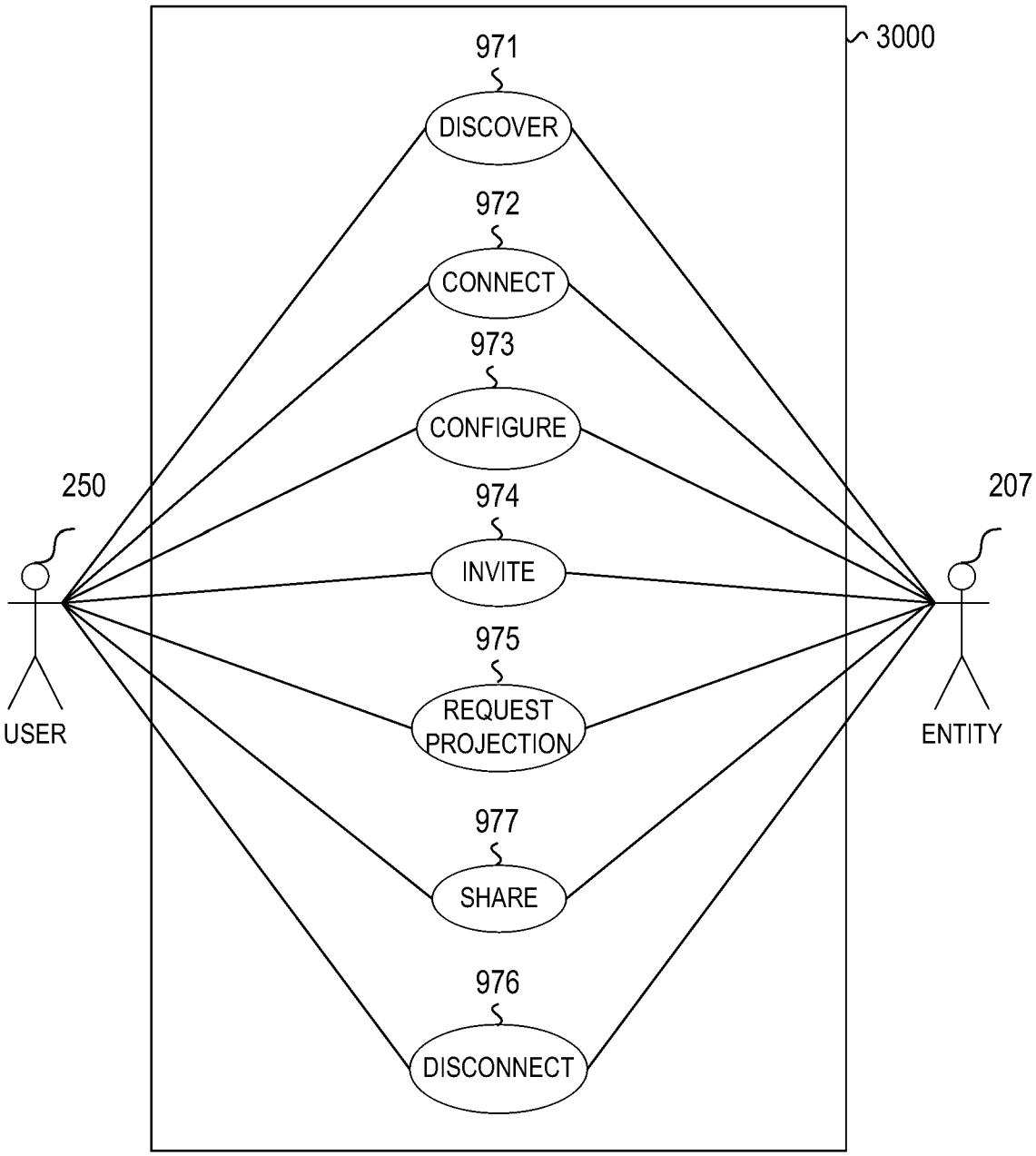

3000
971
DISCOVER
972
CONNECT
973
CONFIGURE
974
INVITE
975
REQUEST PROJECTION
977
SHARE
976
DISCONNECT
250
USER
207
ENTITY

Fig. 2

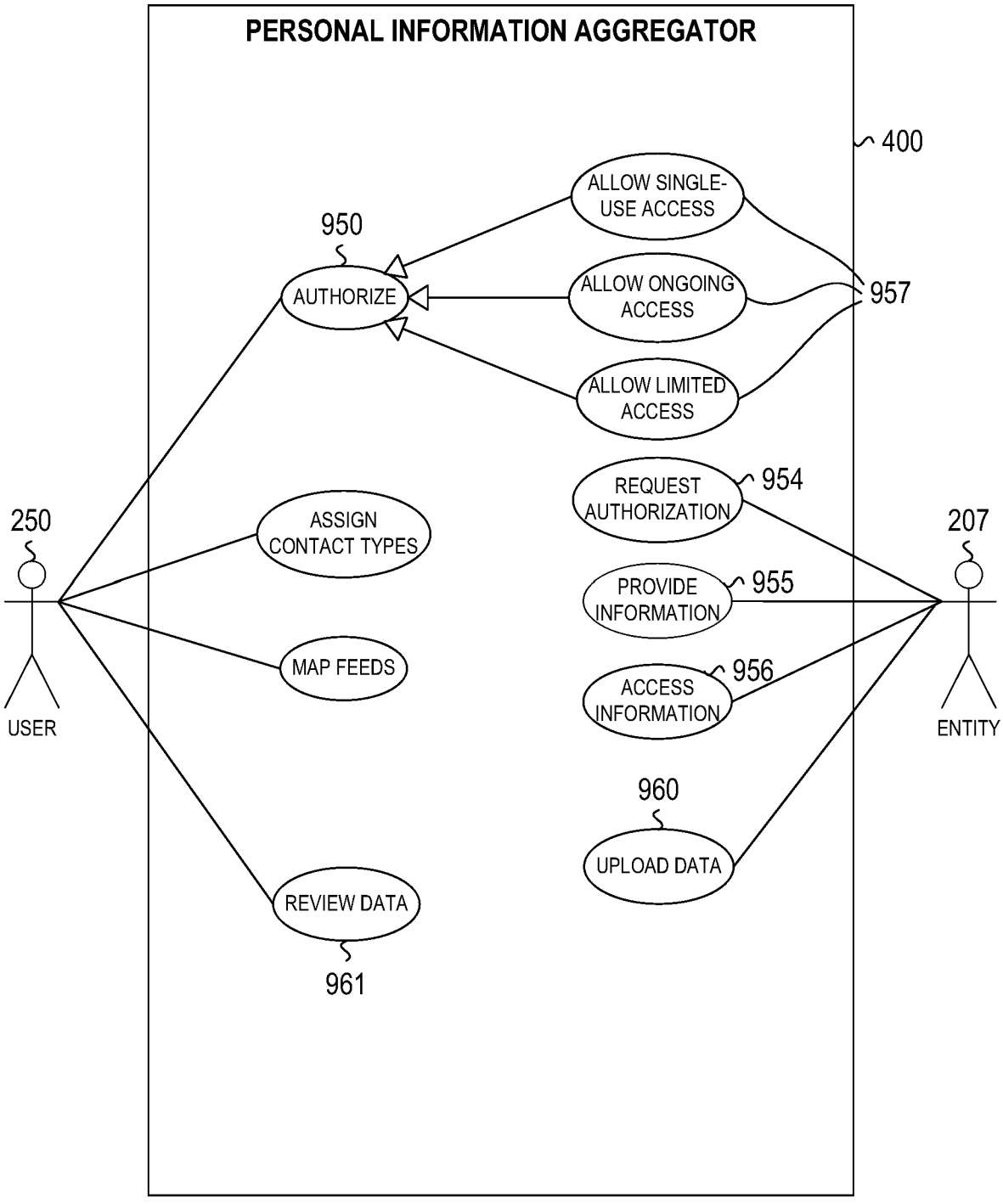

PERSONAL INFORMATION AGGREGATOR
400
ALLOW SINGLE-USE ACCESS
950
AUTHORIZE
ALLOW ONGOING ACCESS
957
ALLOW LIMITED ACCESS
REQUEST AUTHORIZATION
954
250
ASSIGN CONTACT TYPES
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PROVIDE INFORMATION
955
MAP FEEDS
ACCESS INFORMATION
956
USER
ENTITY
960
UPLOAD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

Fig. 3

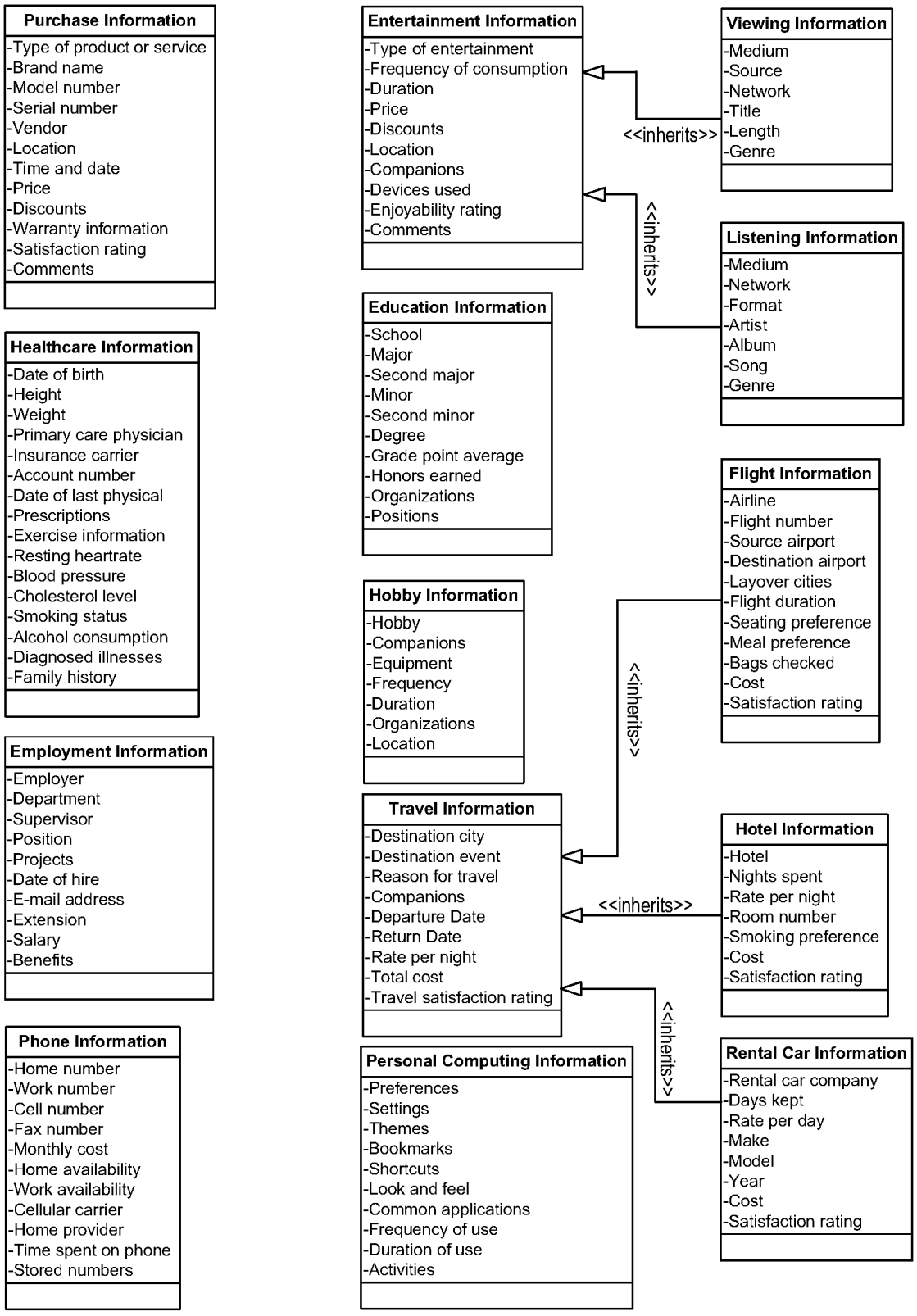

Purchase Information
-Type of product or service
-Brand name
-Model number
-Serial number
-Vendor
-Location
-Time and date
-Price
-Discounts
-Warranty information
-Satisfaction rating
-Comments
Healthcare Information
-Date of birth
-Height
-Weight
-Primary care physician
-Insurance carrier
-Account number
-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
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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
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Travel Information
-Destination city
-Destination event
-Reason for travel
-Companions
-Departure Date
-Return Date
-Rate per night
-Total cost
-Travel satisfaction rating
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Hotel Information
-Hotel
-Nights spent
-Rate per night
-Room number
-Smoking preference
-Cost
-Satisfaction rating
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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

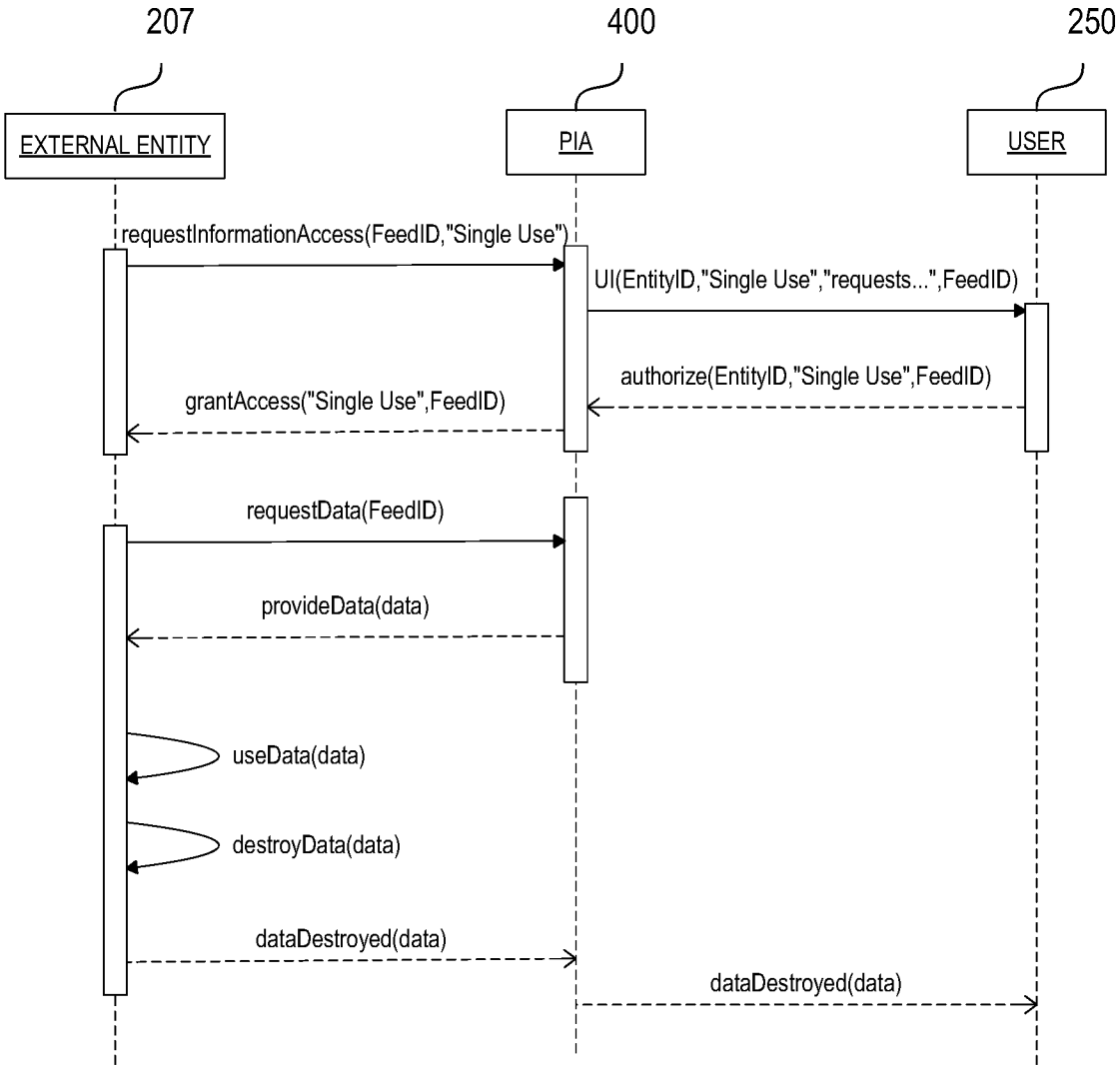

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Single Use")
UI(EntityID,"Single Use","requests...",FeedID)
authorize(EntityID,"Single Use",FeedID)
grantAccess("Single Use",FeedID)
requestData(FeedID)
provideData(data)
useData(data)
destroyData(data)
dataDestroyed(data)
dataDestroyed(data)

Fig. 5

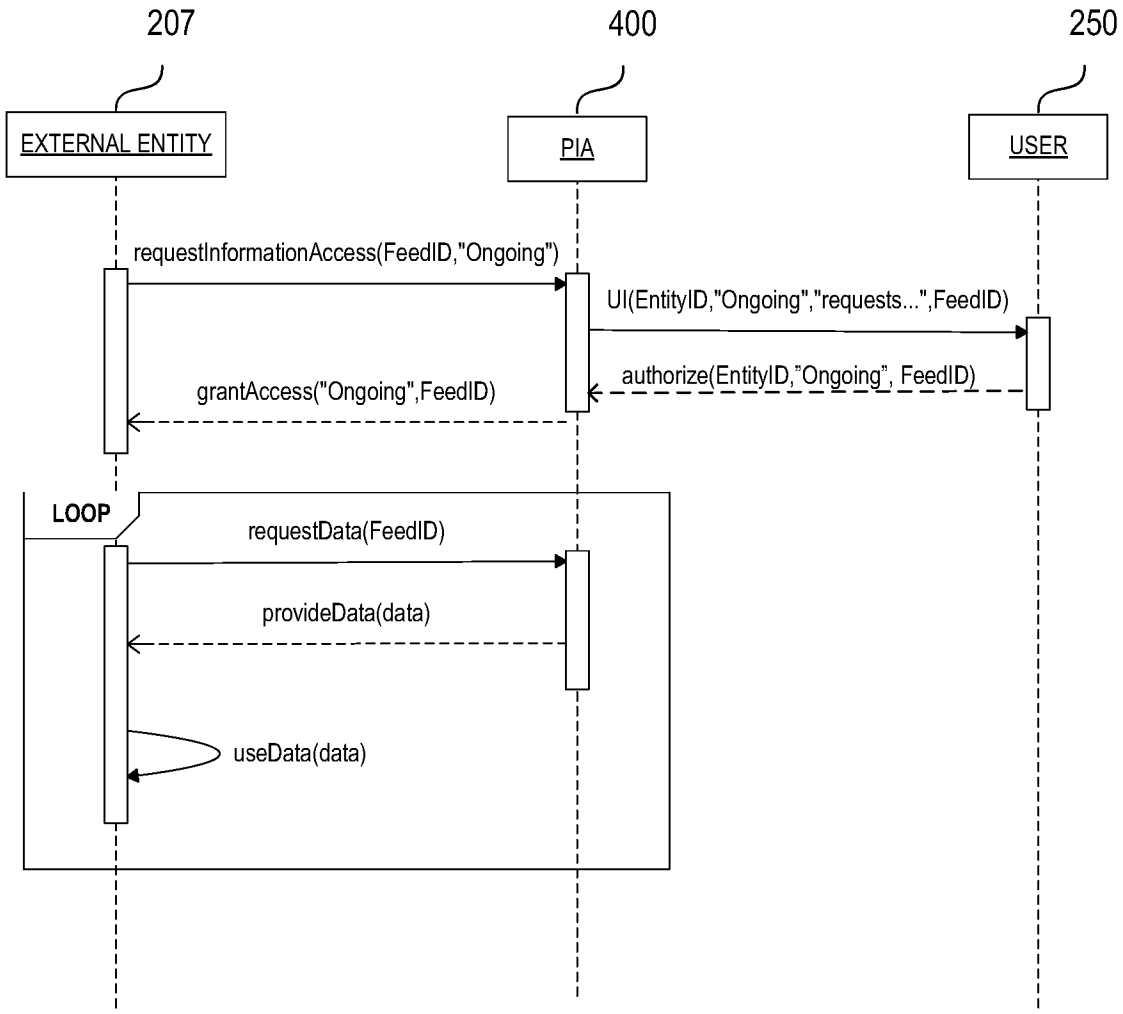

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Ongoing")
UI(EntityID,"Ongoing","requests...",FeedID)
authorize(EntityID,"Ongoing", FeedID)
grantAccess("Ongoing",FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)

Fig. 6

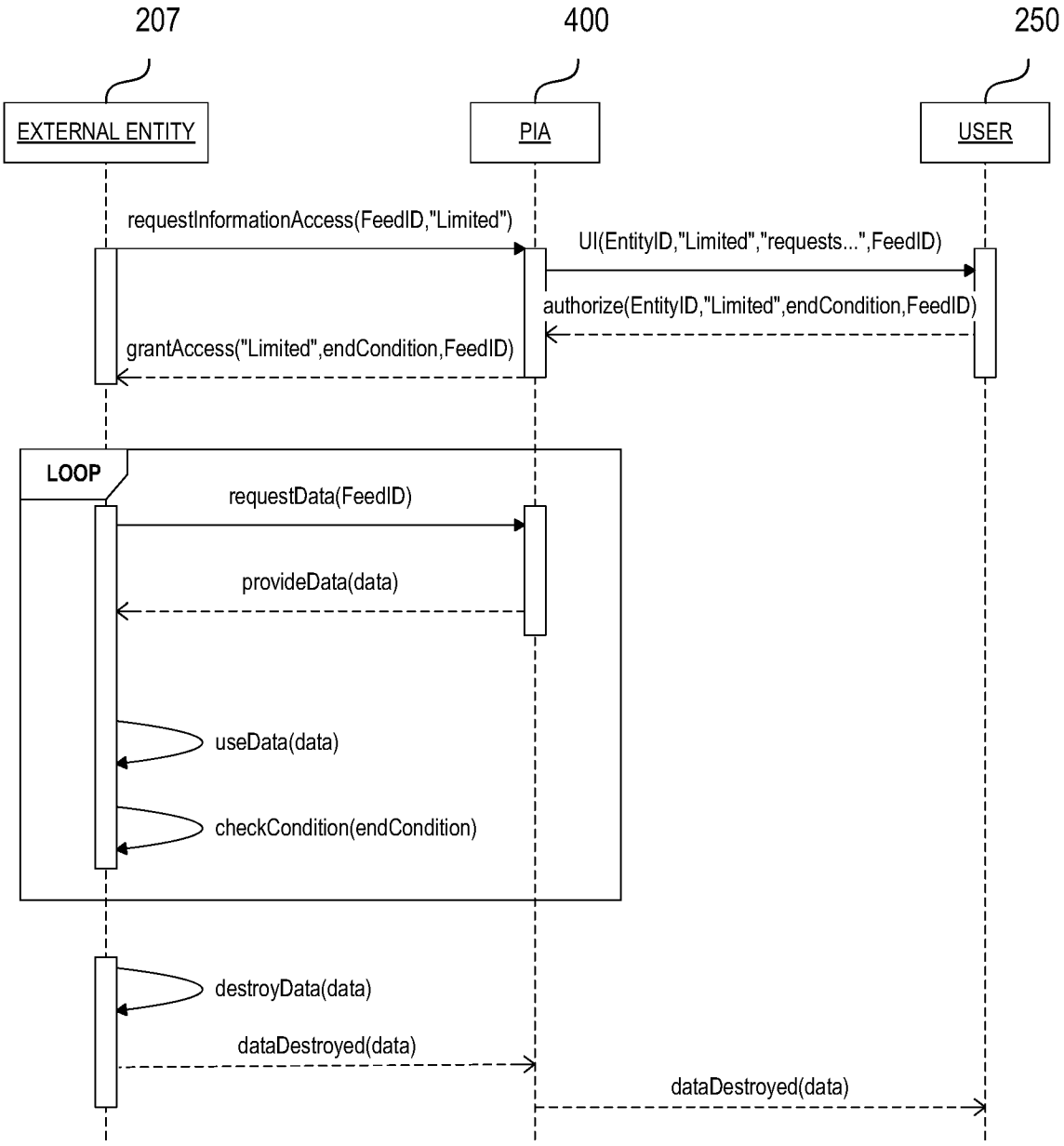

207
400
250
EXTERNAL ENTITY
PIA
USER
requestInformationAccess(FeedID,"Limited")
UI(EntityID,"Limited","requests...",FeedID)
authorize(EntityID,"Limited",endCondition,FeedID)
grantAccess("Limited",endCondition,FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)
checkCondition(endCondition)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

Fig. 7

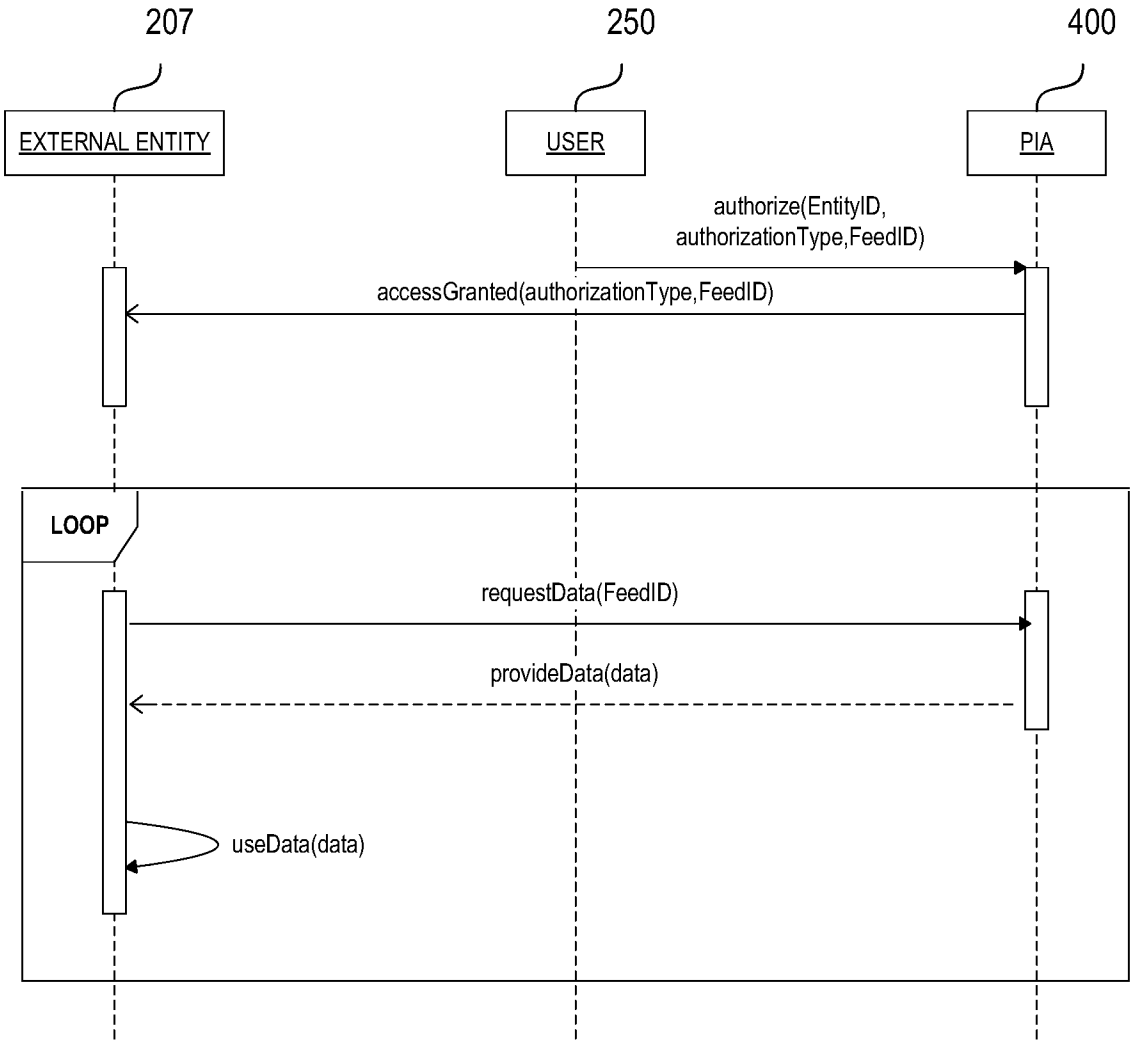

207
250
400
EXTERNAL ENTITY
USER
PIA
authorize(EntityID, authorizationType,FeedID)
accessGranted(authorizationType,FeedID)
LOOP
requestData(FeedID)
provideData(data)
useData(data)

Fig. 8

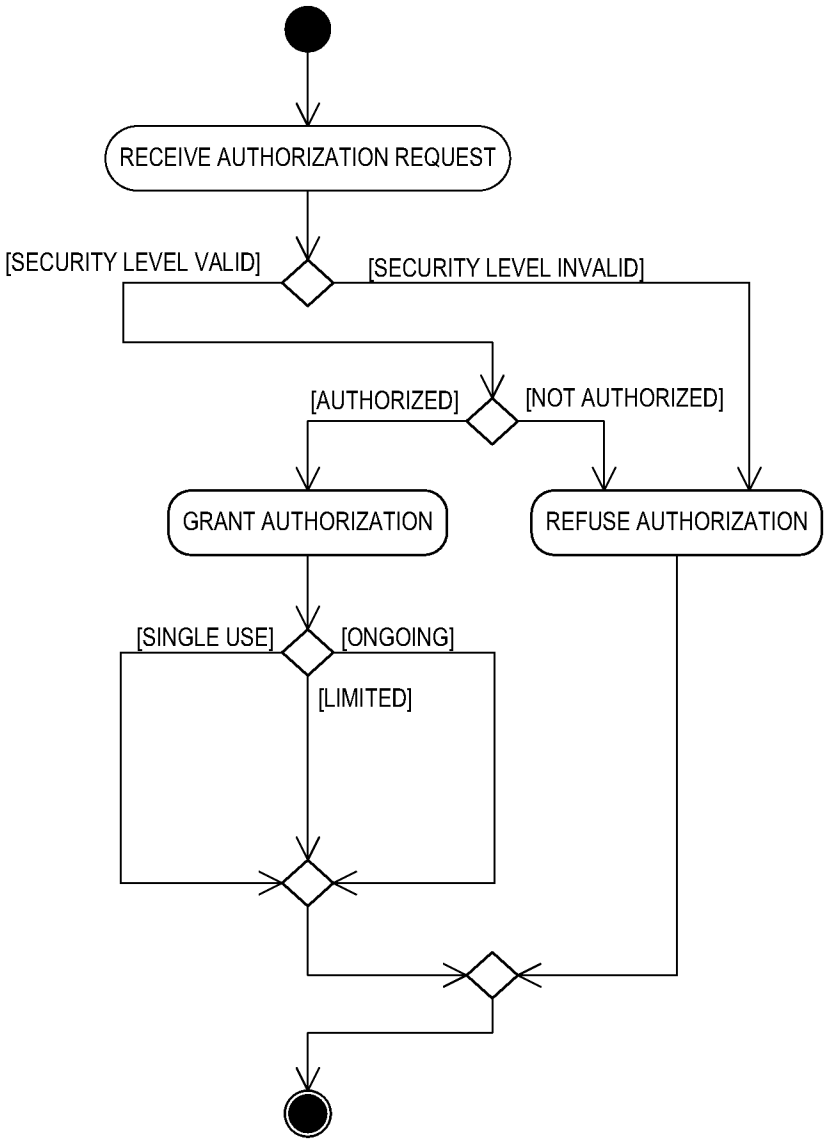

RECEIVE AUTHORIZATION REQUEST
[SECURITY LEVEL VALID]
[SECURITY LEVEL INVALID]
[AUTHORIZED]
[NOT AUTHORIZED]
GRANT AUTHORIZATION
REFUSE AUTHORIZATION
[SINGLE USE]
[ONGOING]
[LIMITED]

Fig. 9

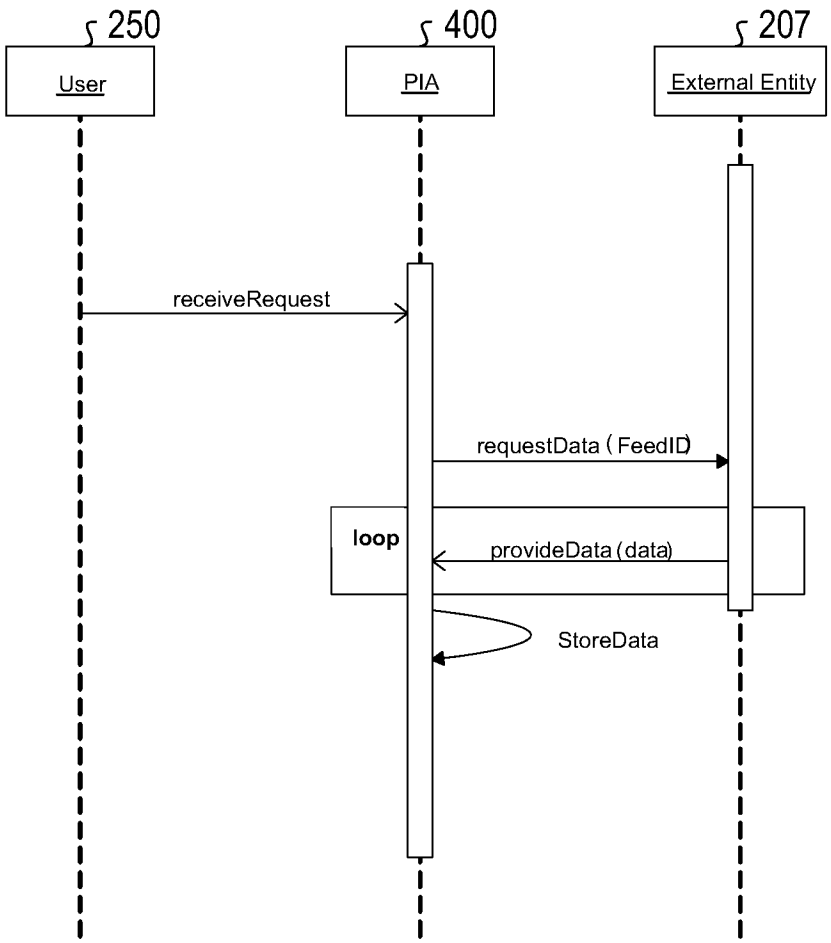

250
User
400
PIA
207
External Entity
receiveRequest
requestData (FeedID)
loop
provideData (data)
StoreData

Fig. 10

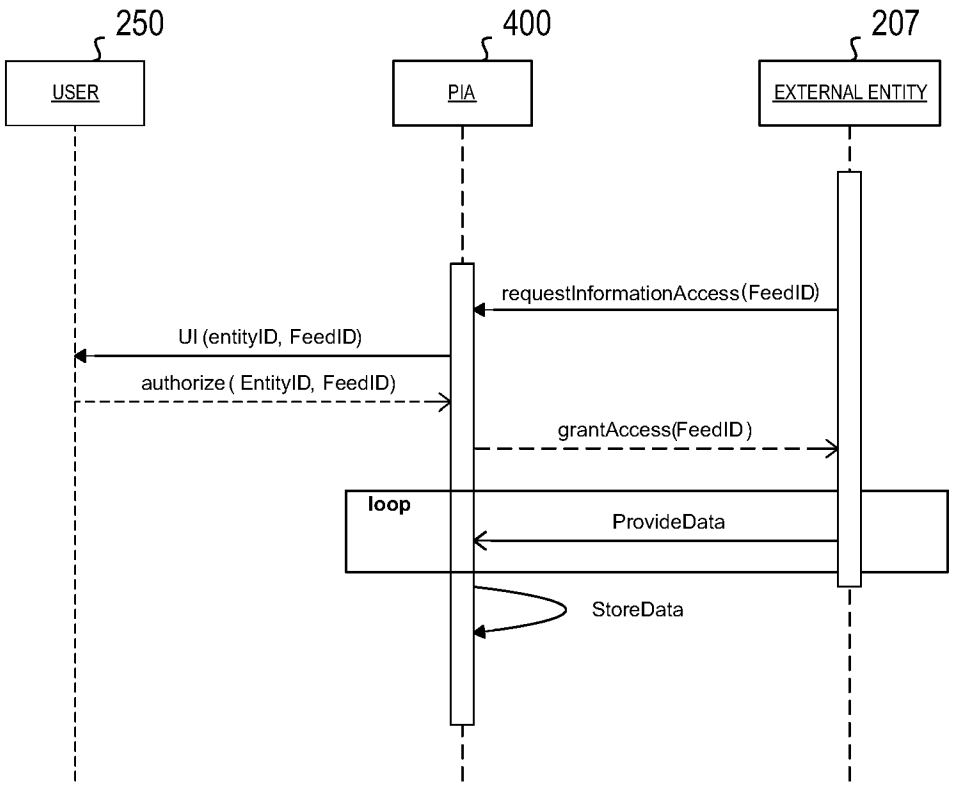

250
400
207
USER
PIA
EXTERNAL ENTITY
requestInformationAccess(FeedID)
UI (entityID, FeedID)
authorize(EntityID, FeedID)
grantAccess(FeedID)
loop
ProvideData
StoreData

Fig. 11

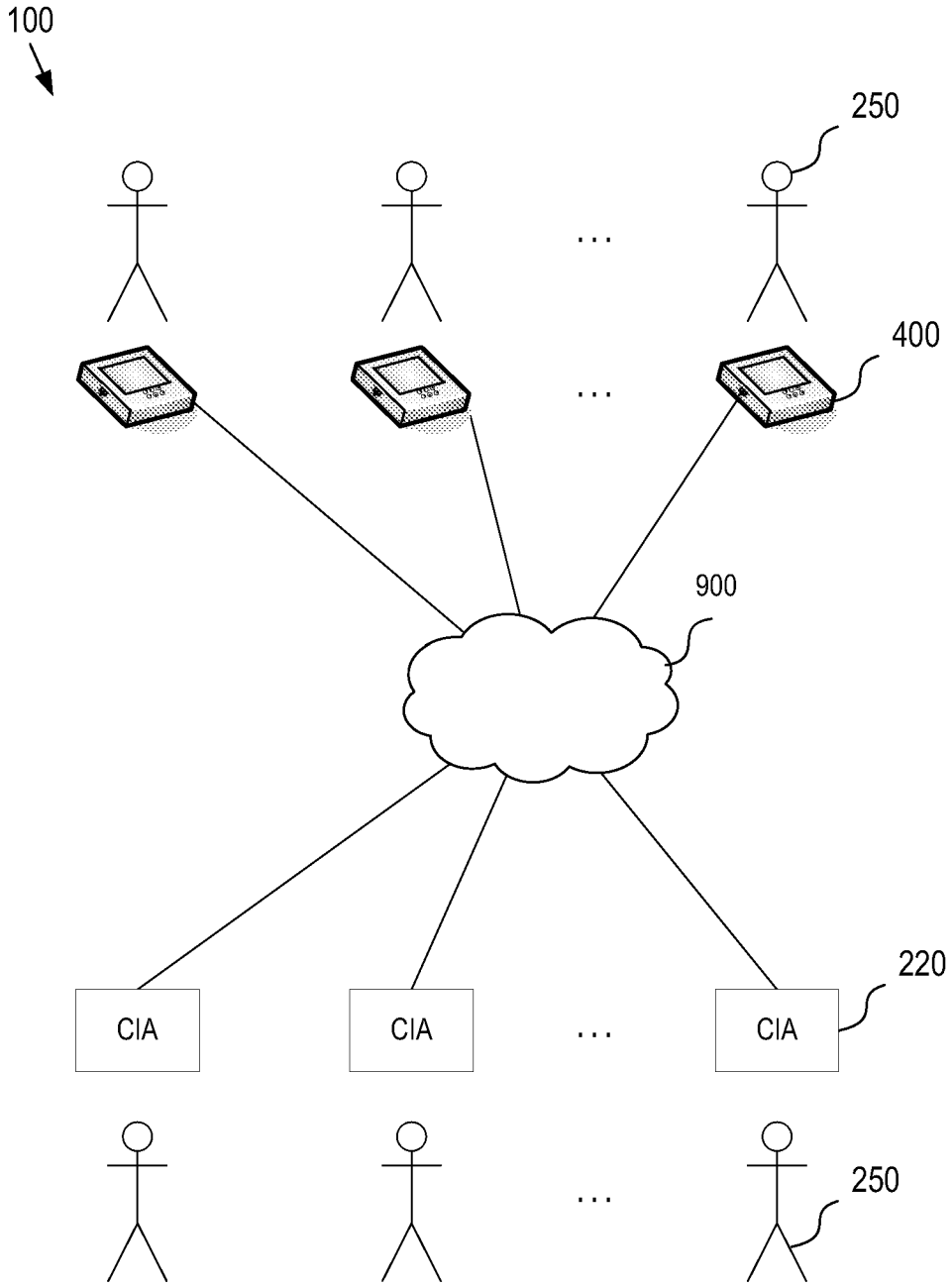


Fig. 12

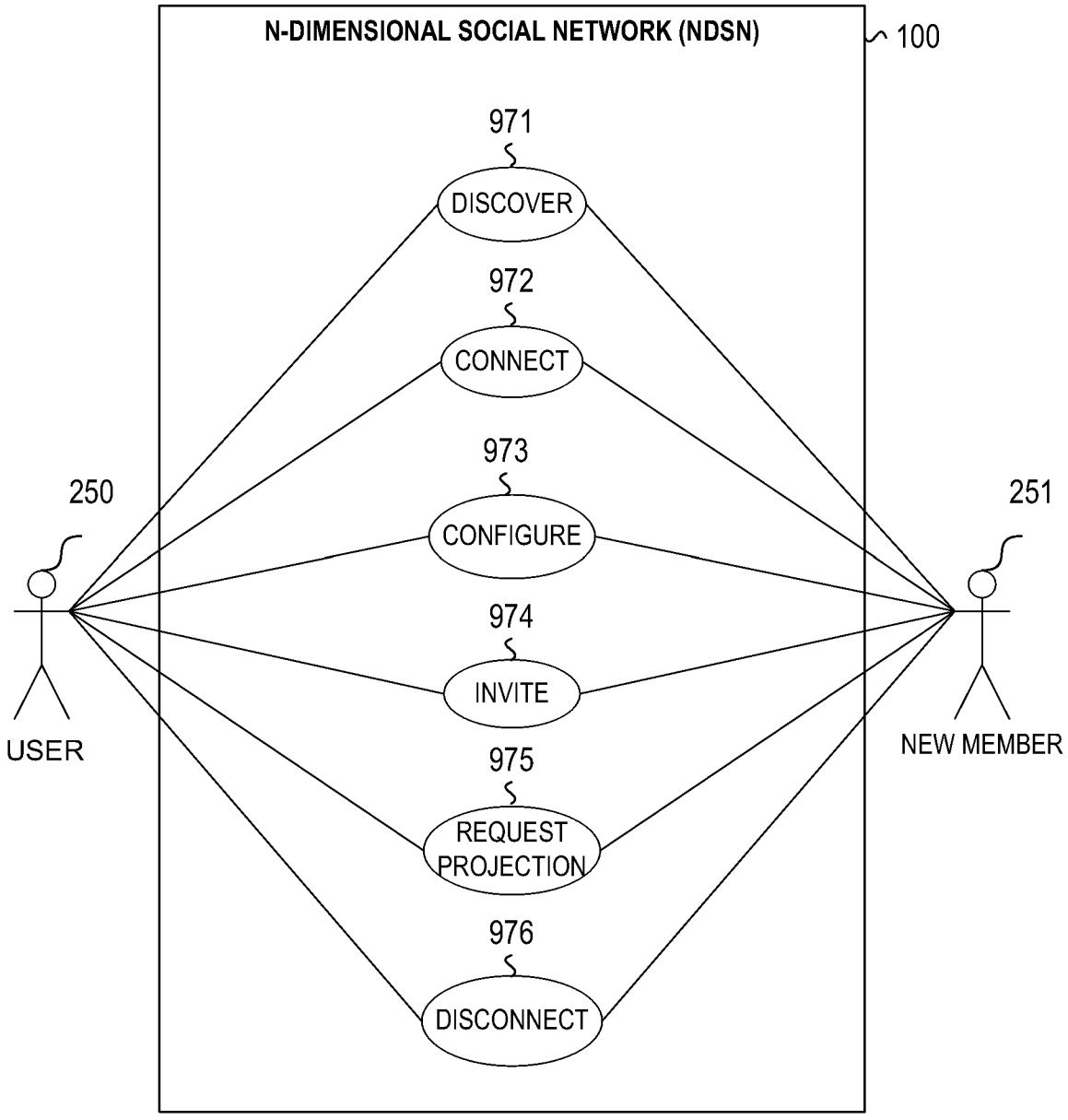

N-DIMENSIONAL SOCIAL NETWORK (NDSN)
100
971
DISCOVER
972
CONNECT
973
CONFIGURE
974
INVITE
975
REQUEST PROJECTION
976
DISCONNECT
250
USER
251
NEW MEMBER

Fig. 13

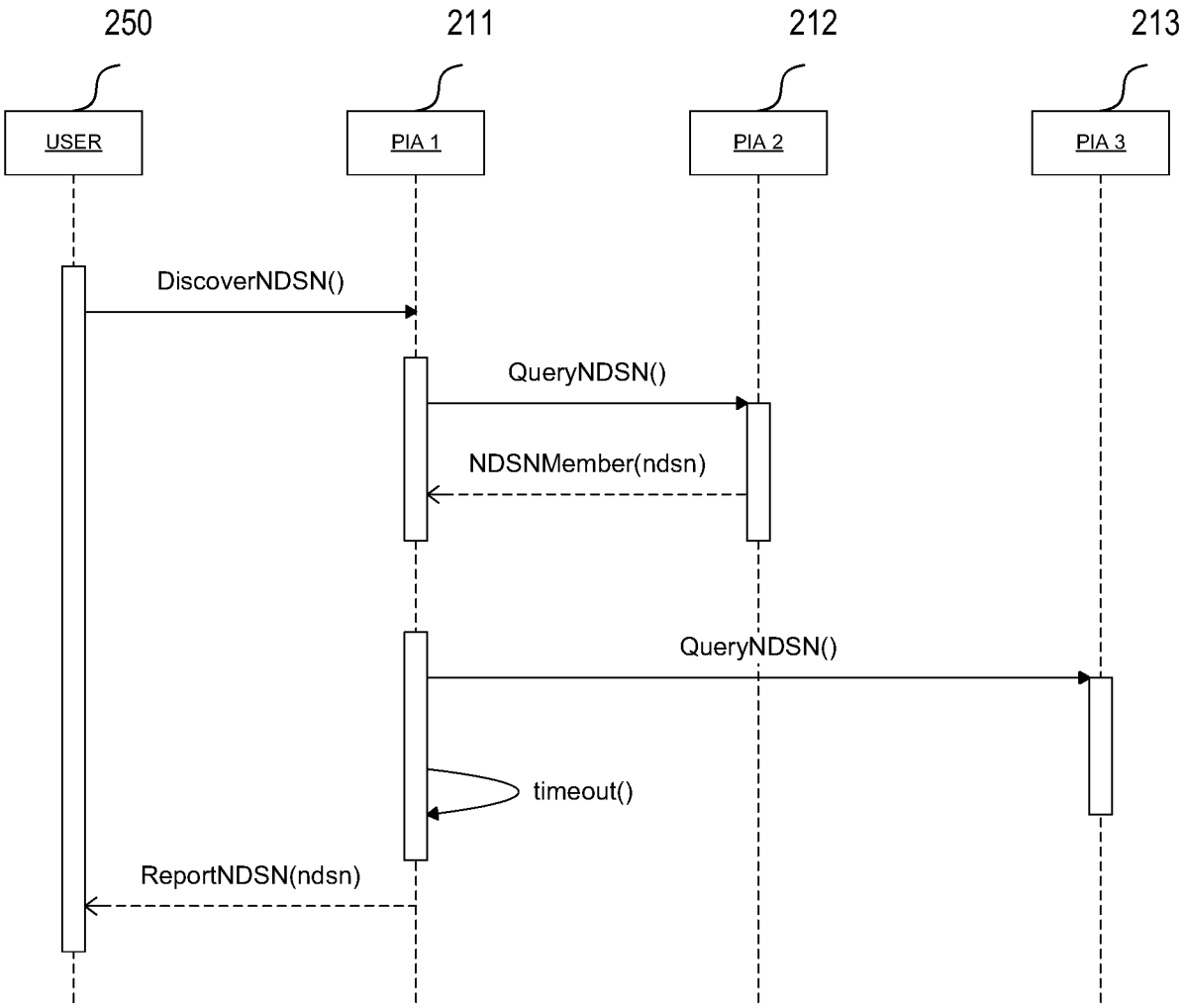

250
211
212
213
USER
PIA 1
PIA 2
PIA 3
DiscoverNDSN()
QueryNDSN()
NDSNMember(ndsn)
QueryNDSN()
timeout()
ReportNDSN(ndsn)

Fig. 14

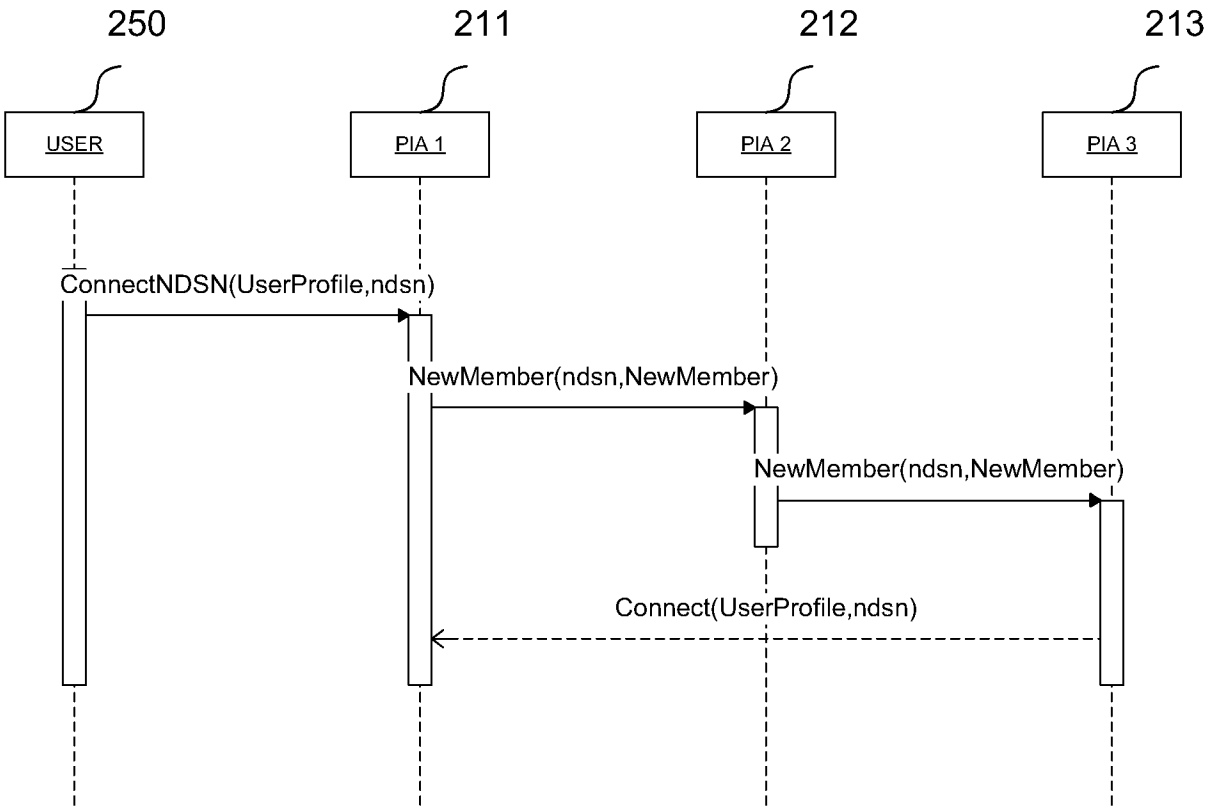

250
211
212
213
USER
PIA 1
PIA 2
PIA 3
ConnectNDSN(UserProfile,ndsn)
NewMember(ndsn,NewMember)
NewMember(ndsn,NewMember)
Connect(UserProfile,ndsn)

Fig. 15

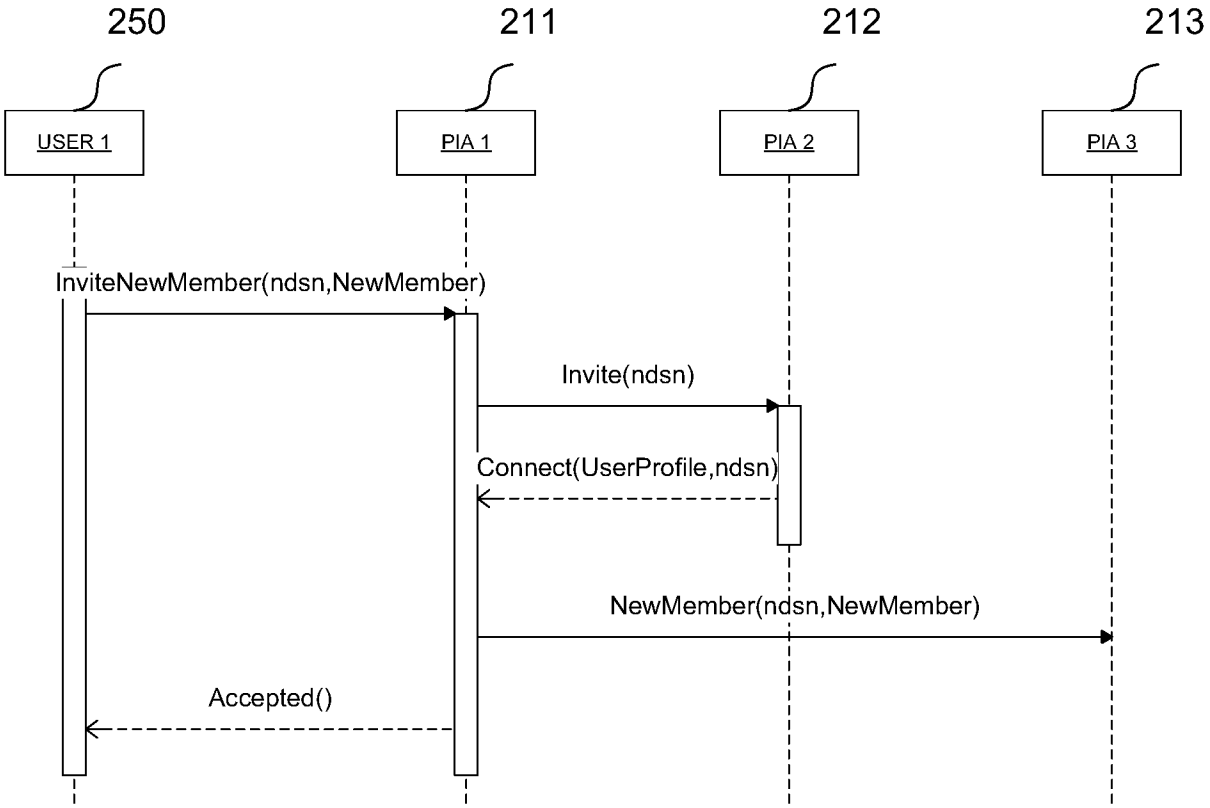

250
211
212
213
USER 1
PIA 1
PIA 2
PIA 3
InviteNewMember(ndsn,NewMember)
Invite(ndsn)
Connect(UserProfile,ndsn)
NewMember(ndsn,NewMember)
Accepted()

Fig. 16

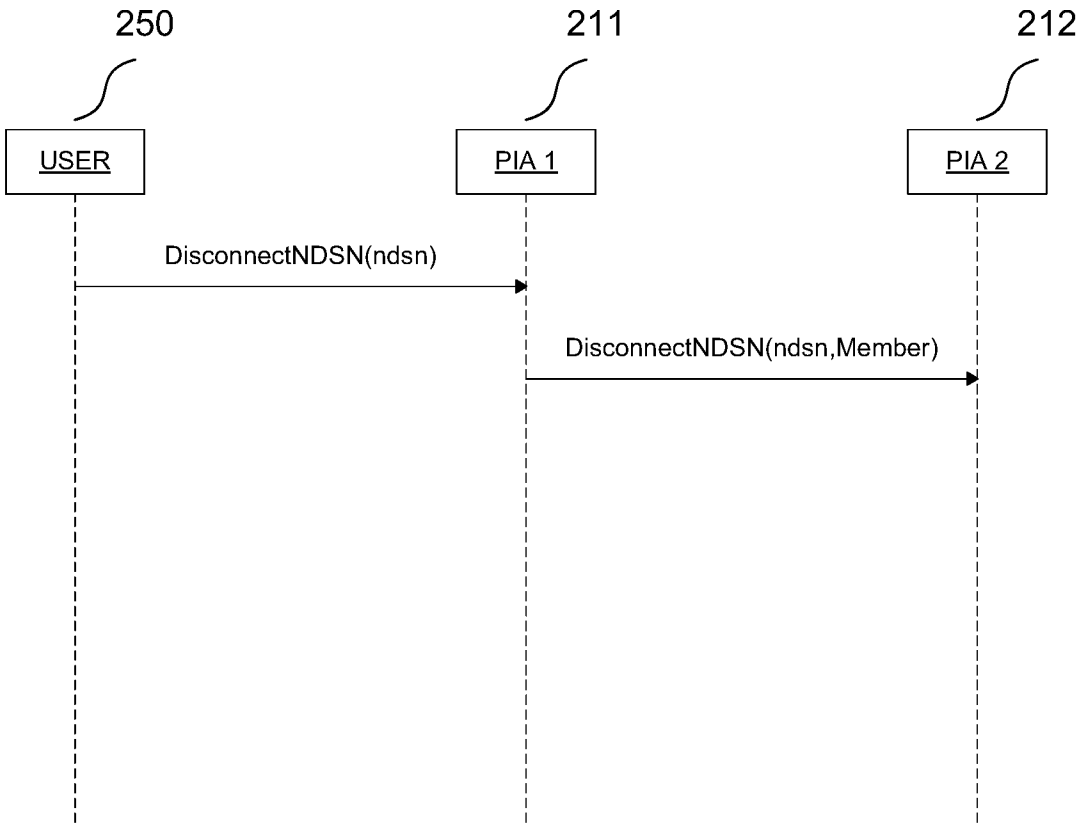

250
211
212
USER
PIA 1
PIA 2
DisconnectNDSN(ndsn)
DisconnectNDSN(ndsn,Member)

Fig. 17

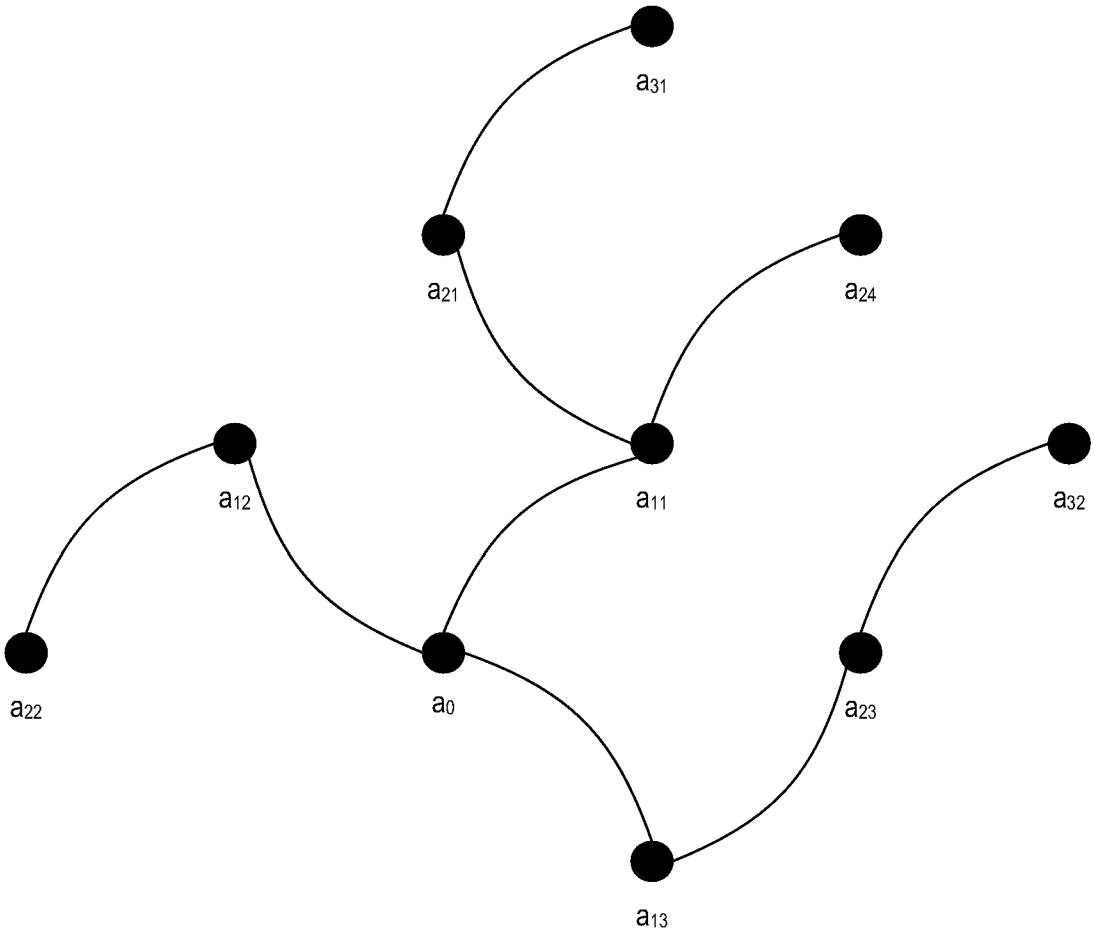


Fig. 18

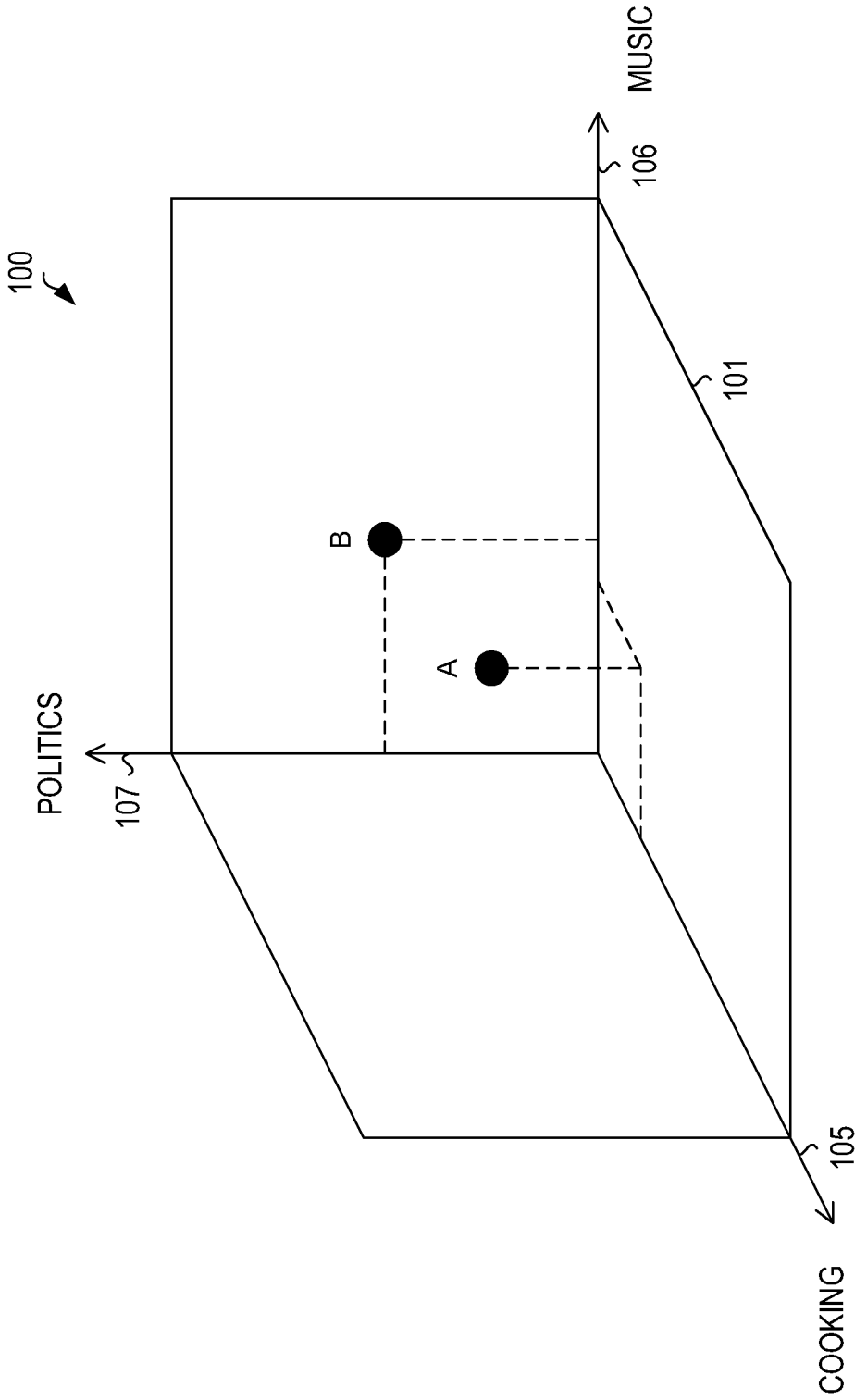


Fig. 19

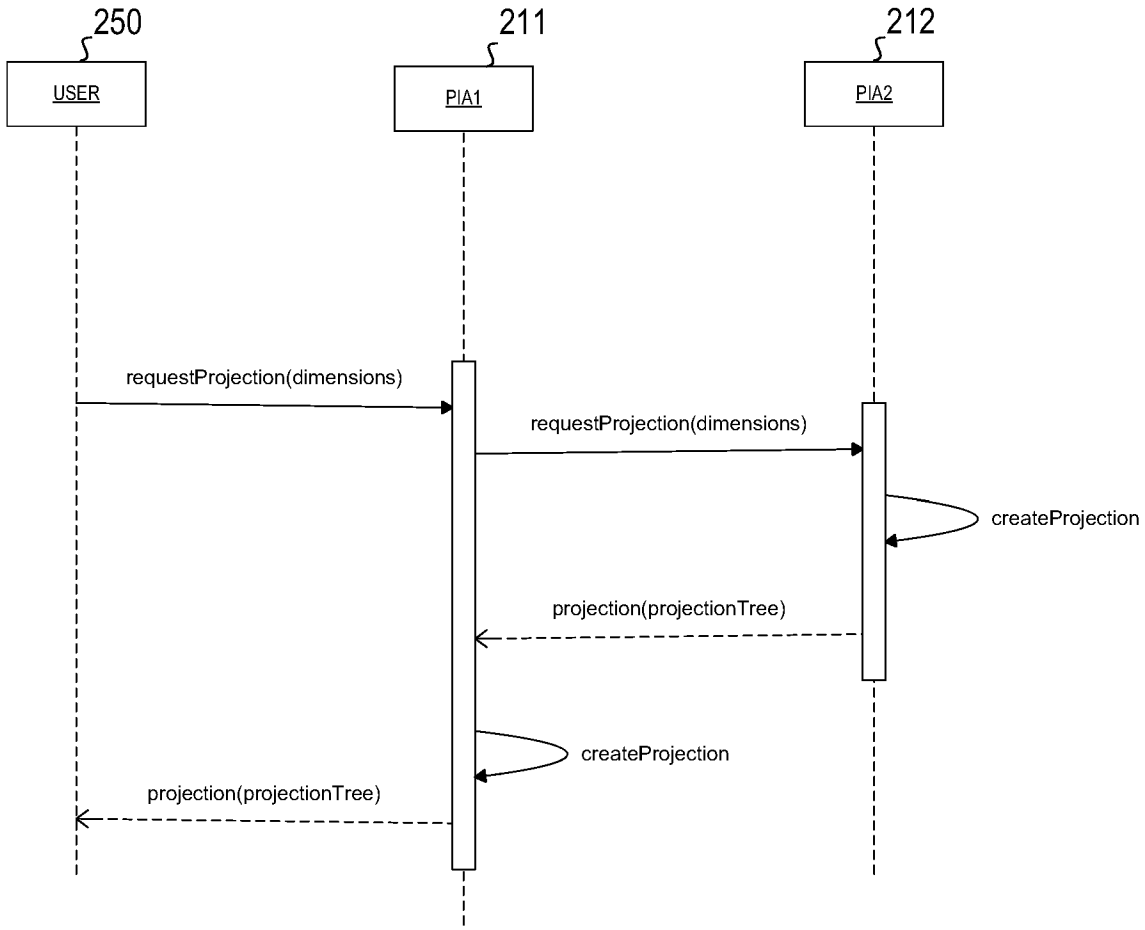

250
211
212
USER
PIA1
PIA2
requestProjection(dimensions)
requestProjection(dimensions)
createProjection
projection(projectionTree)
createProjection
projection(projectionTree)

Fig. 20

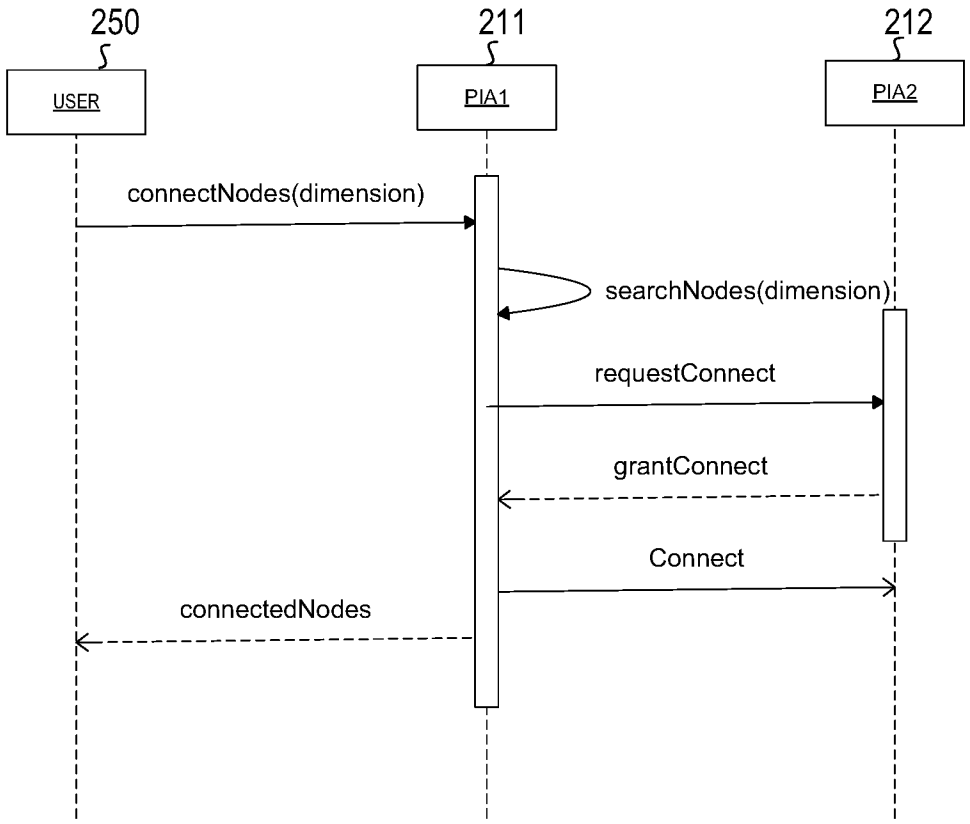

250
211
212
USER
PIA1
PIA2
connectNodes(dimension)
searchNodes(dimension)
requestConnect
grantConnect
Connect
connectedNodes

Fig. 21

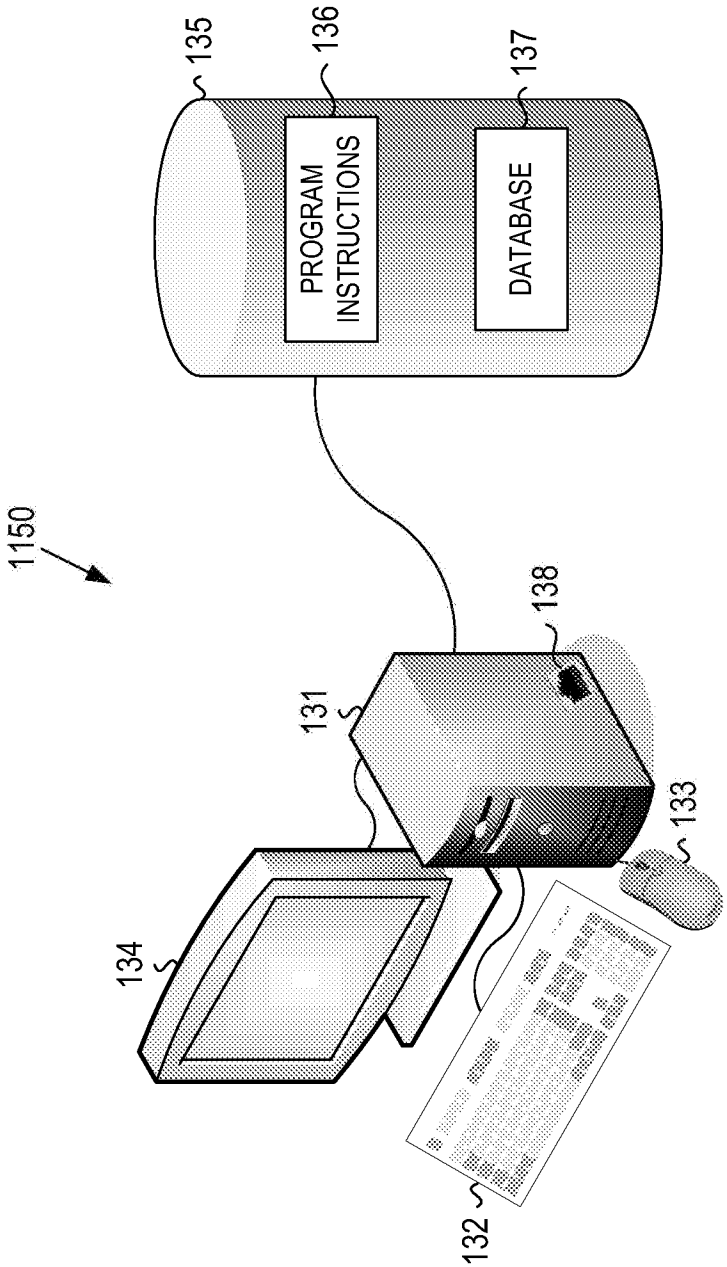

1150
135
136
137
PROGRAM INSTRUCTIONS
DATABASE
138
131
133
134
132

Fig. 22

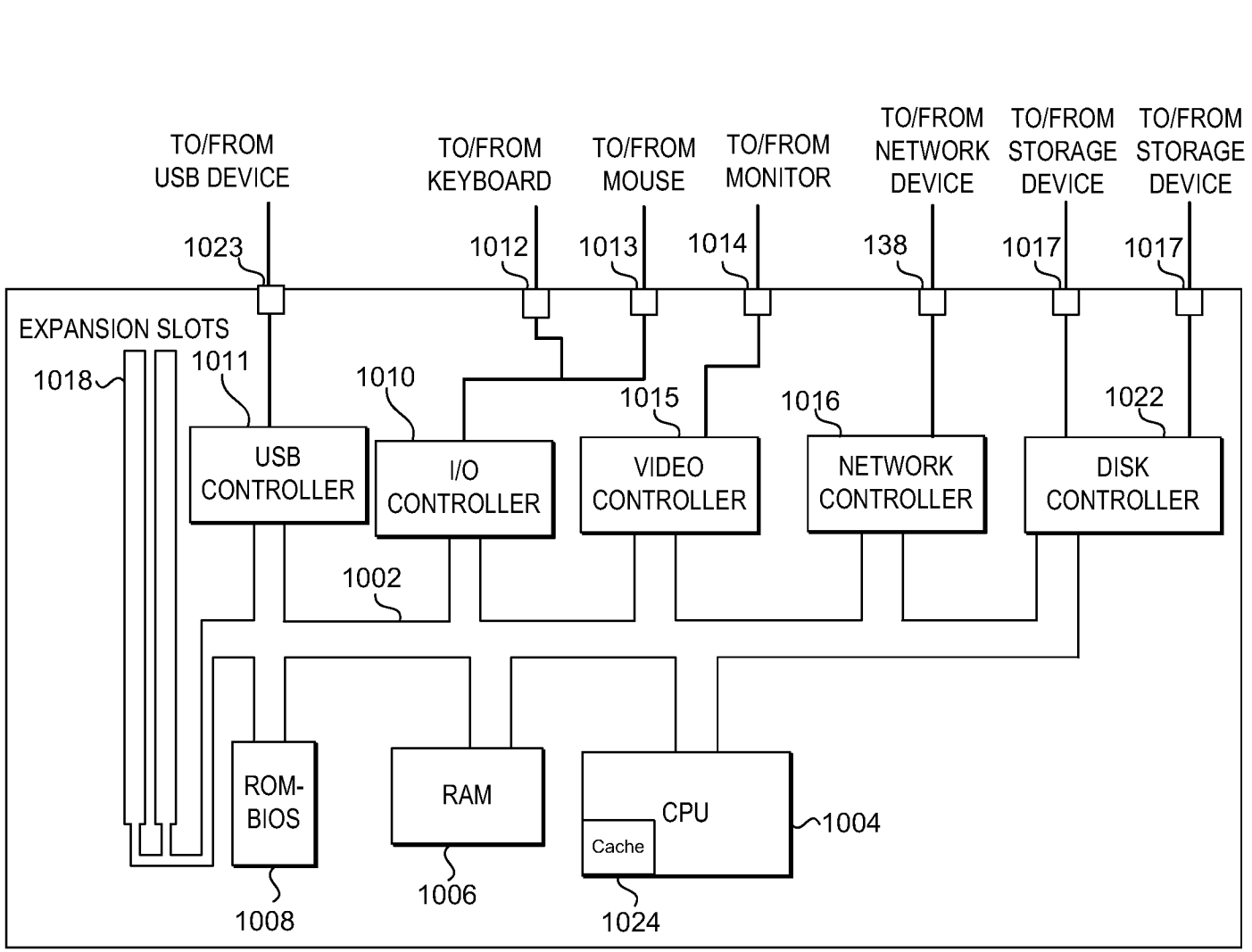

131
TO/FROM USB DEVICE
TO/FROM KEYBOARD
TO/FROM MOUSE
TO/FROM MONITOR
TO/FROM NETWORK DEVICE
TO/FROM STORAGE DEVICE
TO/FROM STORAGE DEVICE
1023
1012
1013
1014
138
1017
1017
EXPANSION SLOTS
1018
1011
1010
1015
1016
1022
USB CONTROLLER
I/O CONTROLLER
VIDEO CONTROLLER
NETWORK CONTROLLER
DISK CONTROLLER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

Fig. 23

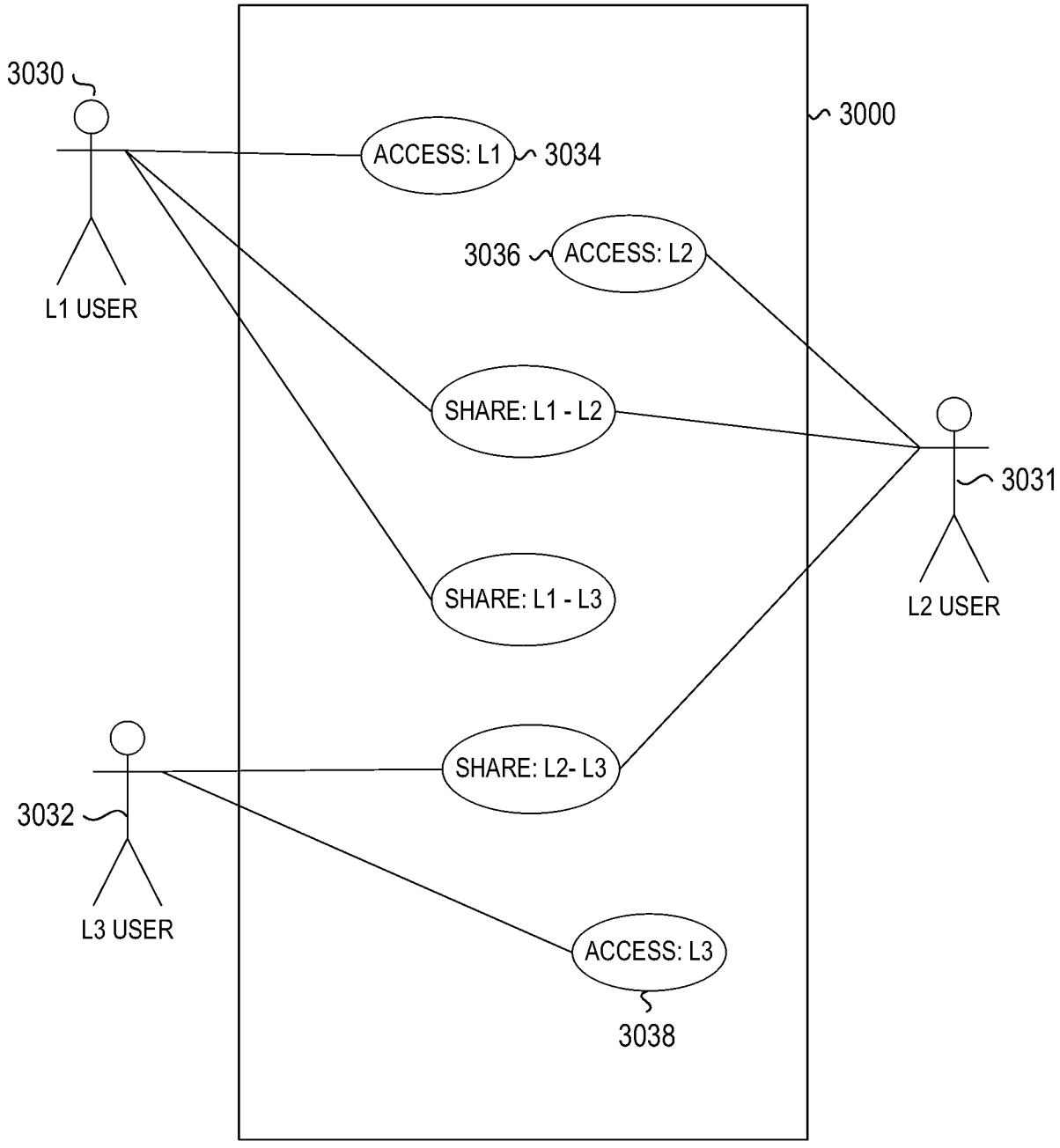
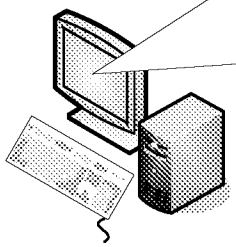

3030
L1 USER
3000
ACCESS: L1
3034
3036
ACCESS: L2
SHARE: L1 - L2
SHARE: L1 - L3
3031
L2 USER
3032
L3 USER
SHARE: L2- L3
ACCESS: L3
3038

Fig. 24

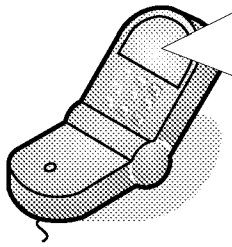


3060

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

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

[NOTIFY] 3068



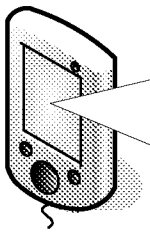
3062

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

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

[NOTIFY] 3068

[REPLY] >>



3064

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

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

[NOTIFY] 3068

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

Fig. 25

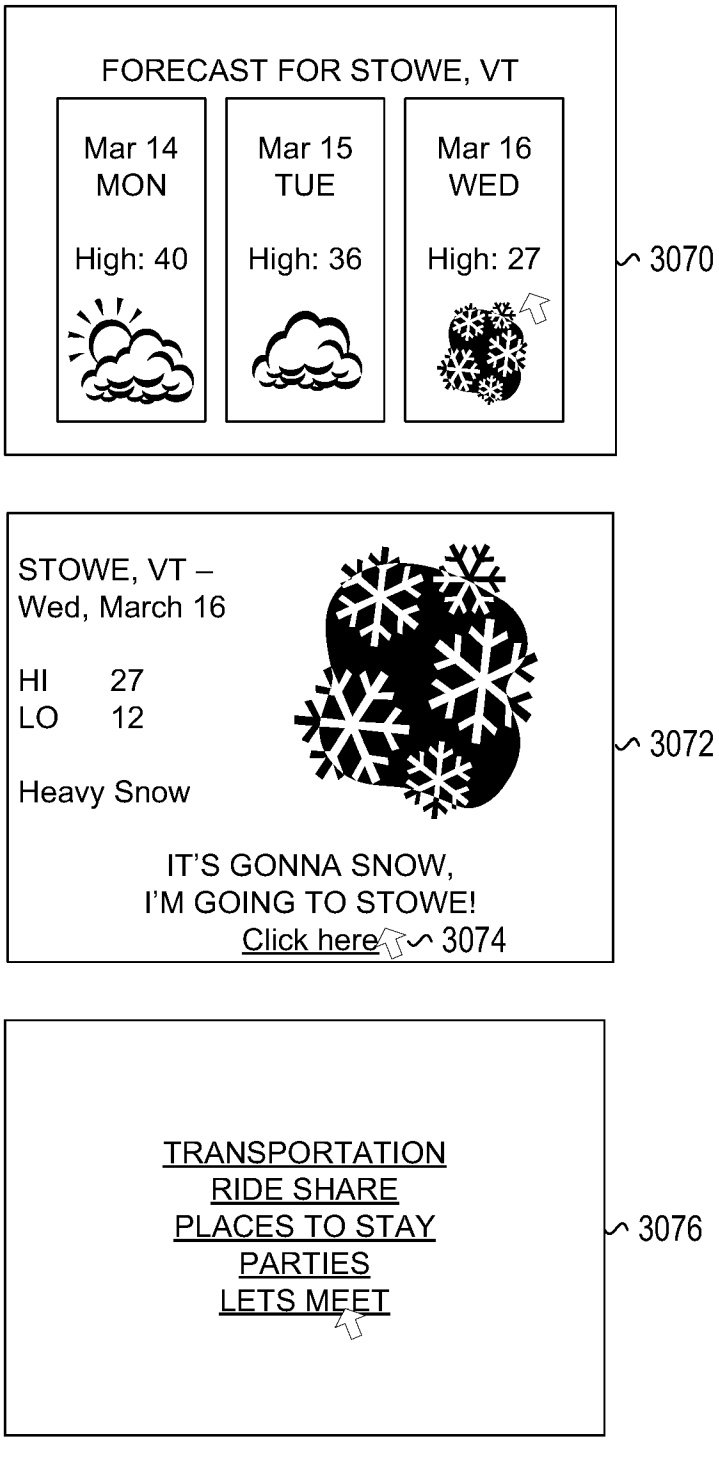

FORECAST FOR STOWE, VT
Mar 14
MON
High: 40
Mar 15
TUE
High: 36
Mar 16
WED
High: 27
3070
STOWE, VT –
Wed, March 16
HI 27
LO 12
Heavy Snow
3072
IT'S GONNA SNOW,
I'M GOING TO STOWE!
Click here
3074
TRANSPORTATION
RIDE SHARE
PLACES TO STAY
PARTIES
LETS MEET
3076

Fig. 26

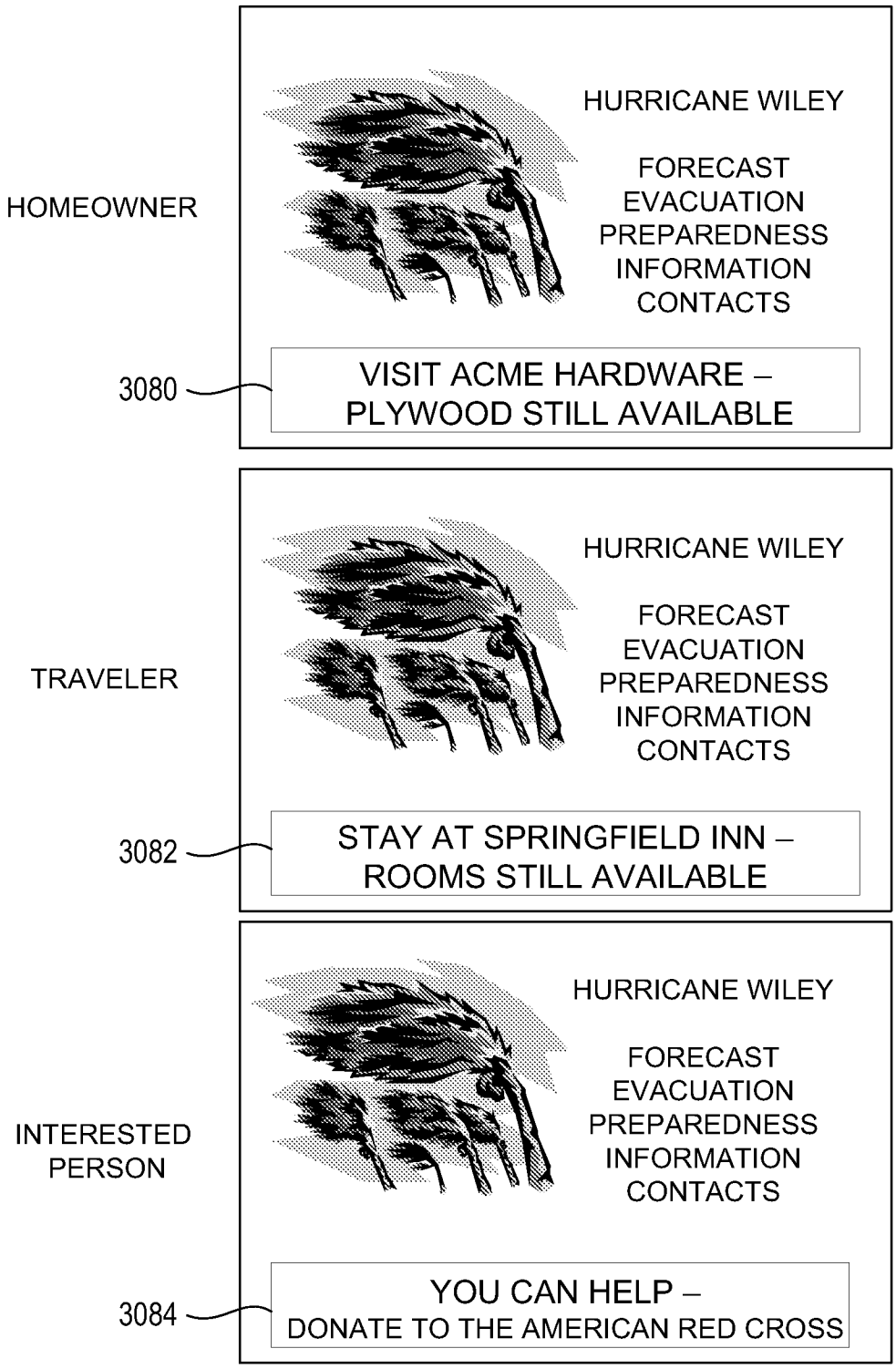

HOMEOWNER
HURRICANE WILEY
FORECAST
EVACUATION
PREPAREDNESS
INFORMATION
CONTACTS
3080
VISIT ACME HARDWARE –
PLYWOOD STILL AVAILABLE
TRAVELER
HURRICANE WILEY
FORECAST
EVACUATION
PREPAREDNESS
INFORMATION
CONTACTS
3082
STAY AT SPRINGFIELD INN –
ROOMS STILL AVAILABLE
INTERESTED PERSON
HURRICANE WILEY
FORECAST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

Fig. 27

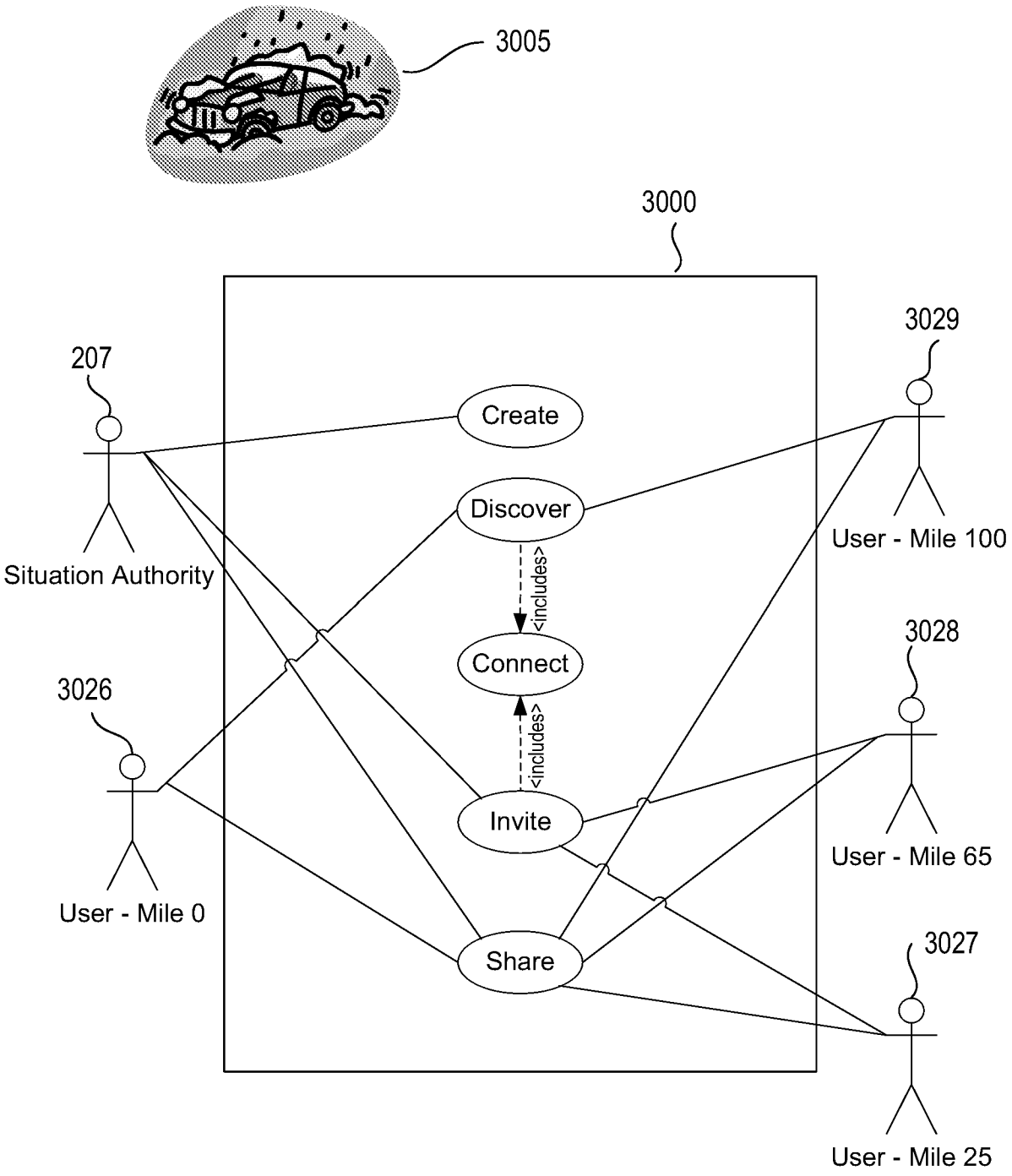

3005
3000
207
3029
Create
Discover
Situation Authority
User - Mile 100
<includes>
3028
Connect
3026
<includes>
Invite
User - Mile 65
User - Mile 0
3027
Share
User - Mile 25

Fig. 28

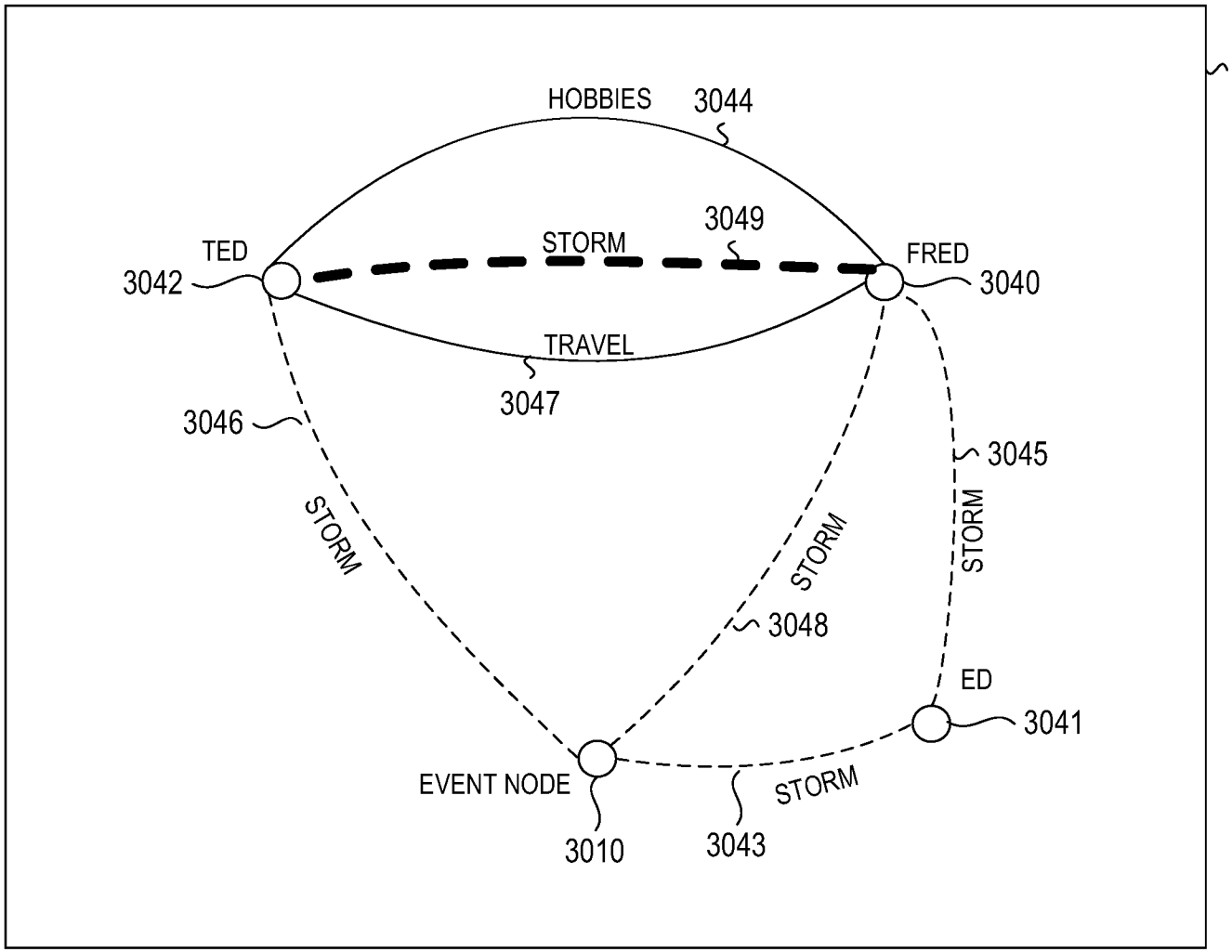


Fig. 29

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

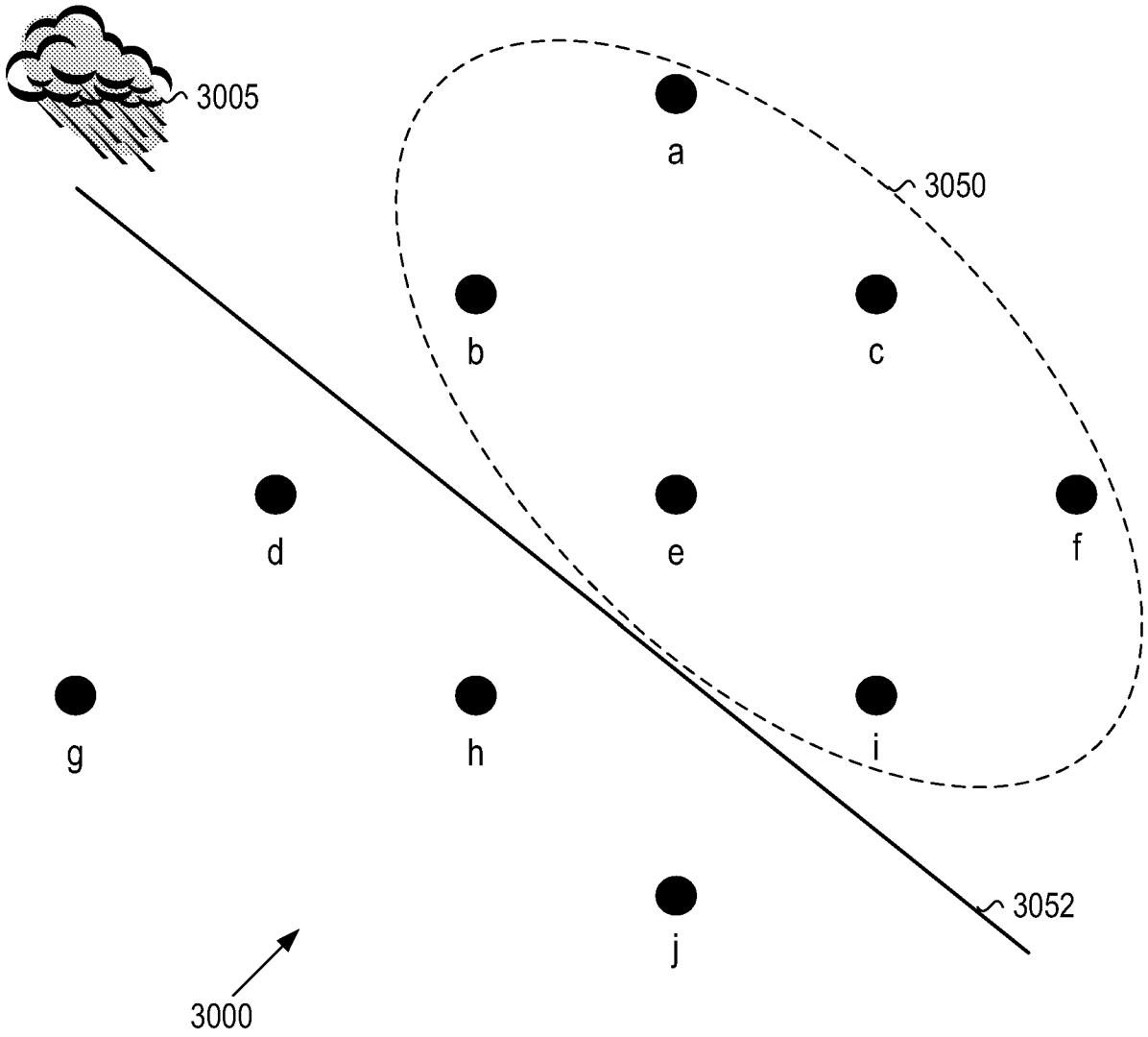


Fig. 30

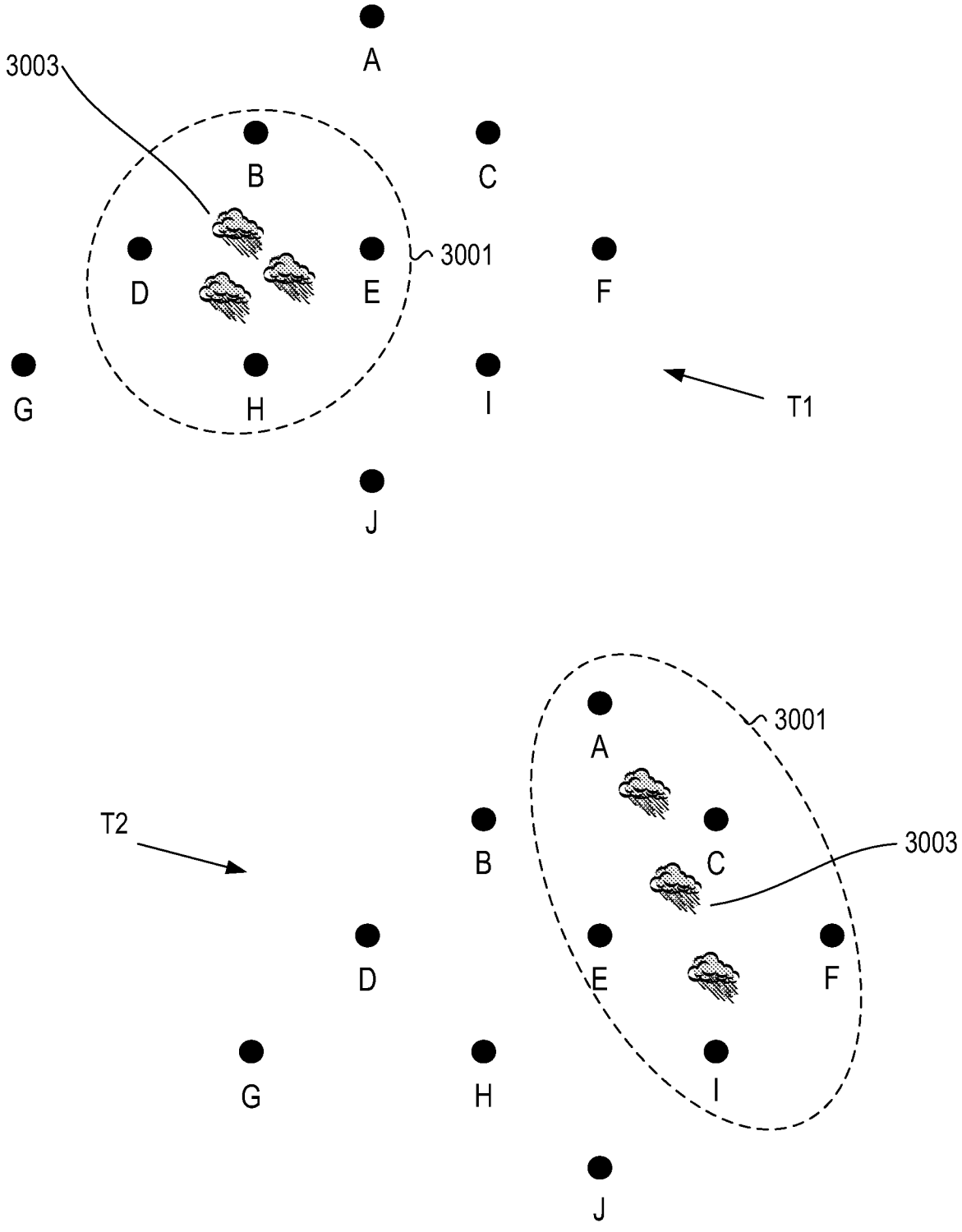


Fig. 31

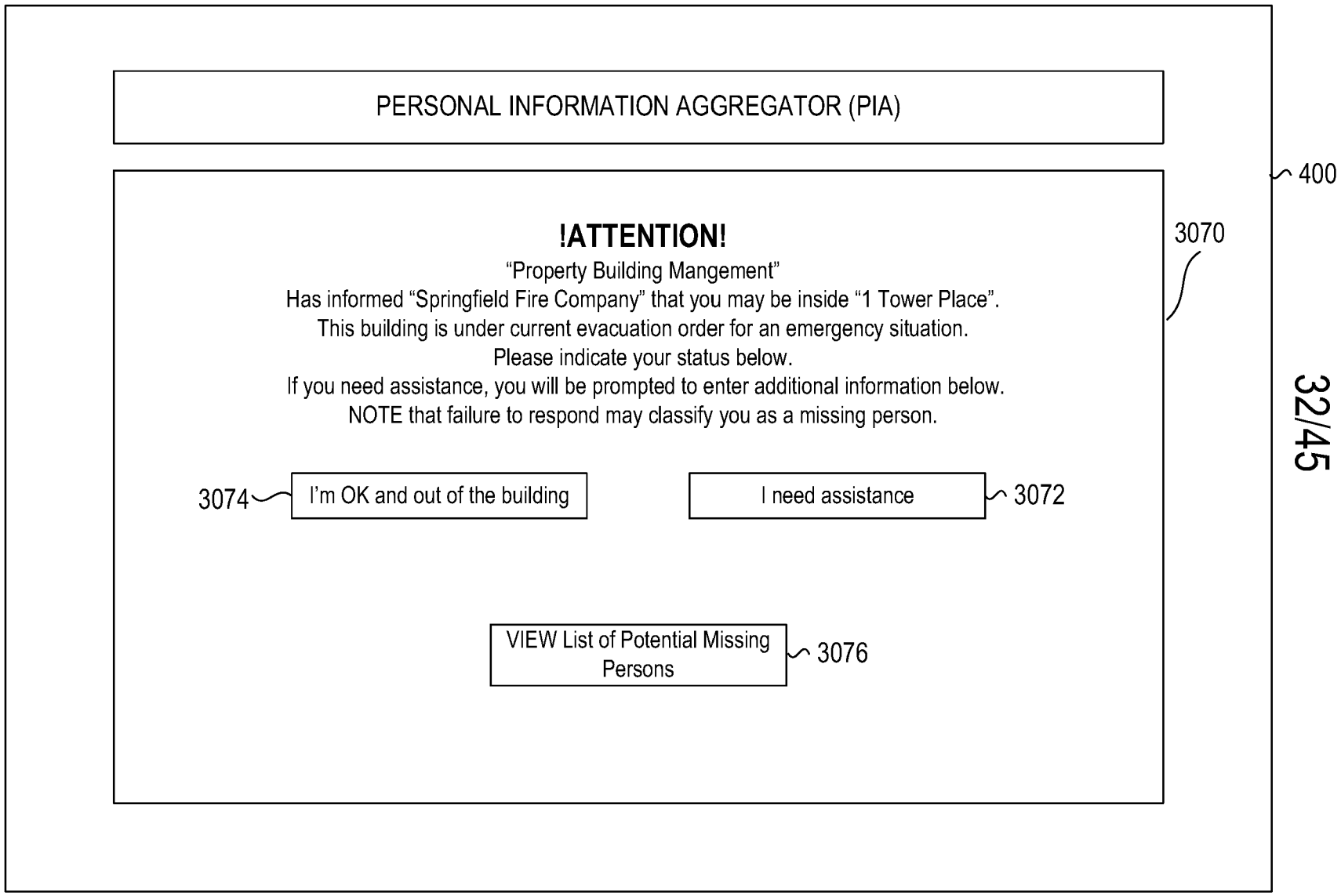

PERSONAL INFORMATION AGGREGATOR (PIA)
400
!ATTENTION!
3070
"Property Building Mangement"
Has informed "Springfield Fire Company" that you may be inside "1 Tower Place".
This building is under current evacuation order for an emergency situation.
Please indicate your status below.
If you need assistance,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

Fig. 32

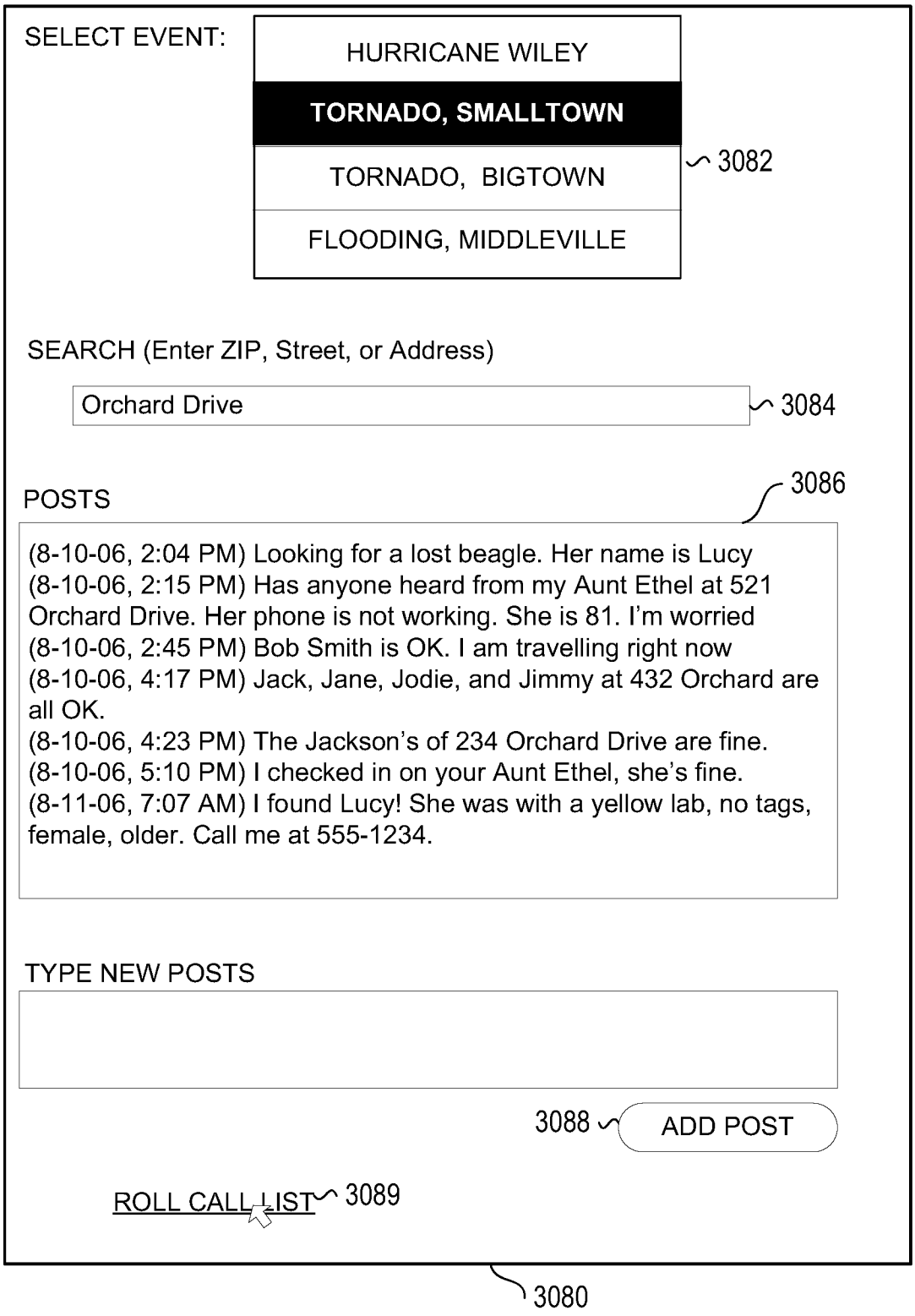

SELECT EVENT:
HURRICANE WILEY
TORNADO, SMALLTOWN
TORNADO, BIGTOWN
FLOODING, MIDDLEVILLE
3082
SEARCH (Enter ZIP, Street, or Address)
Orchard Drive
3084
POSTS
3086
(8-10-06, 2:04 PM) Looking for a lost beagle. Her name is Lucy
(8-10-06, 2:15 PM) Has anyone heard from my Aunt Ethel at 521 Orchard Drive.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

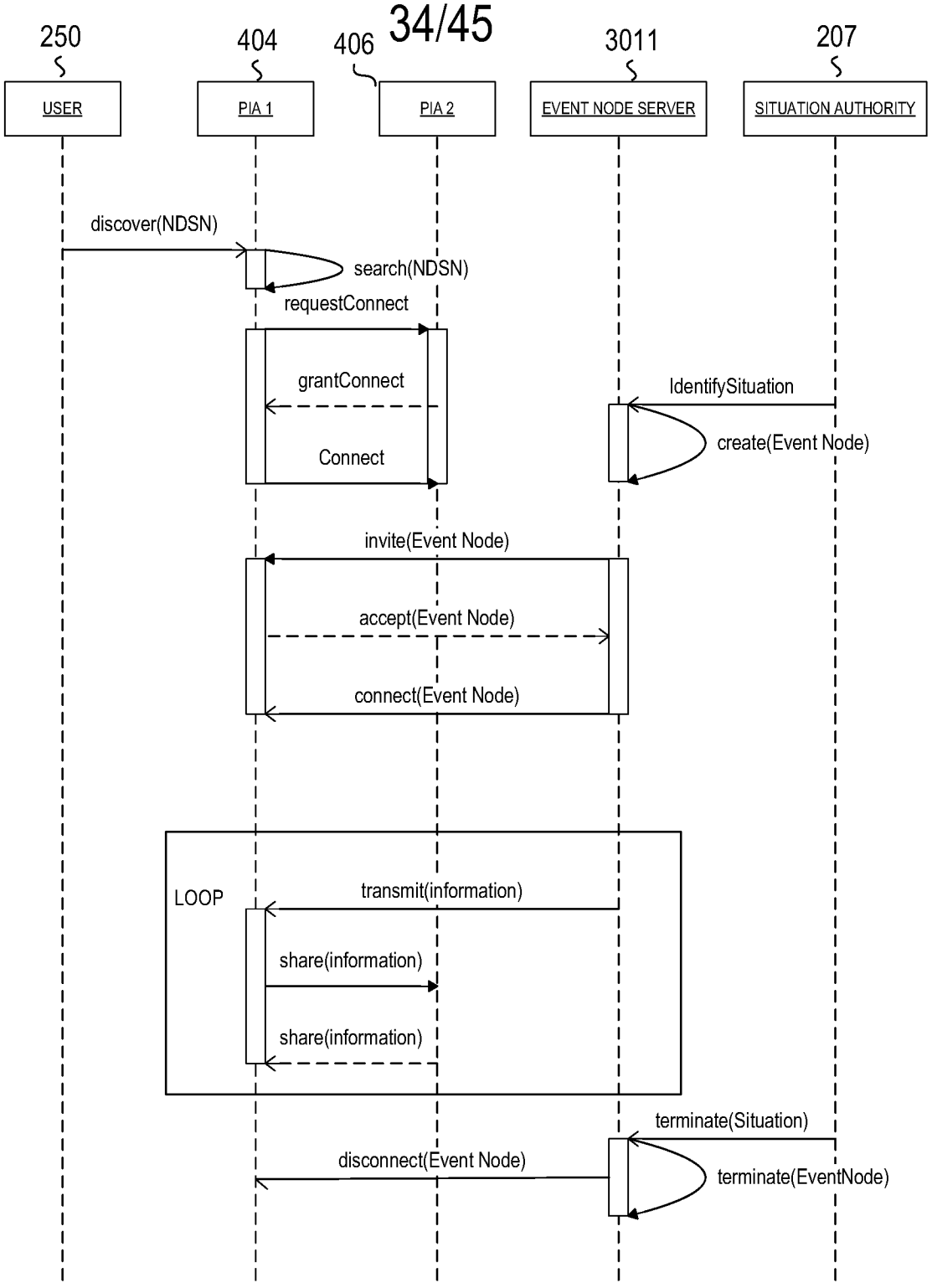

250
404
406
3011
207
USER
PIA 1
PIA 2
EVENT NODE SERVER
SITUATION AUTHORITY
discover(NDSN)
search(NDSN)
requestConnect
grantConnect
IdentifySituation
create(Event Node)
Connect
invite(Event Node)
accept(Event Node)
connect(Event Node)
LOOP
transmit(information)
share(information)
share(information)
terminate(Situation)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

Fig. 34

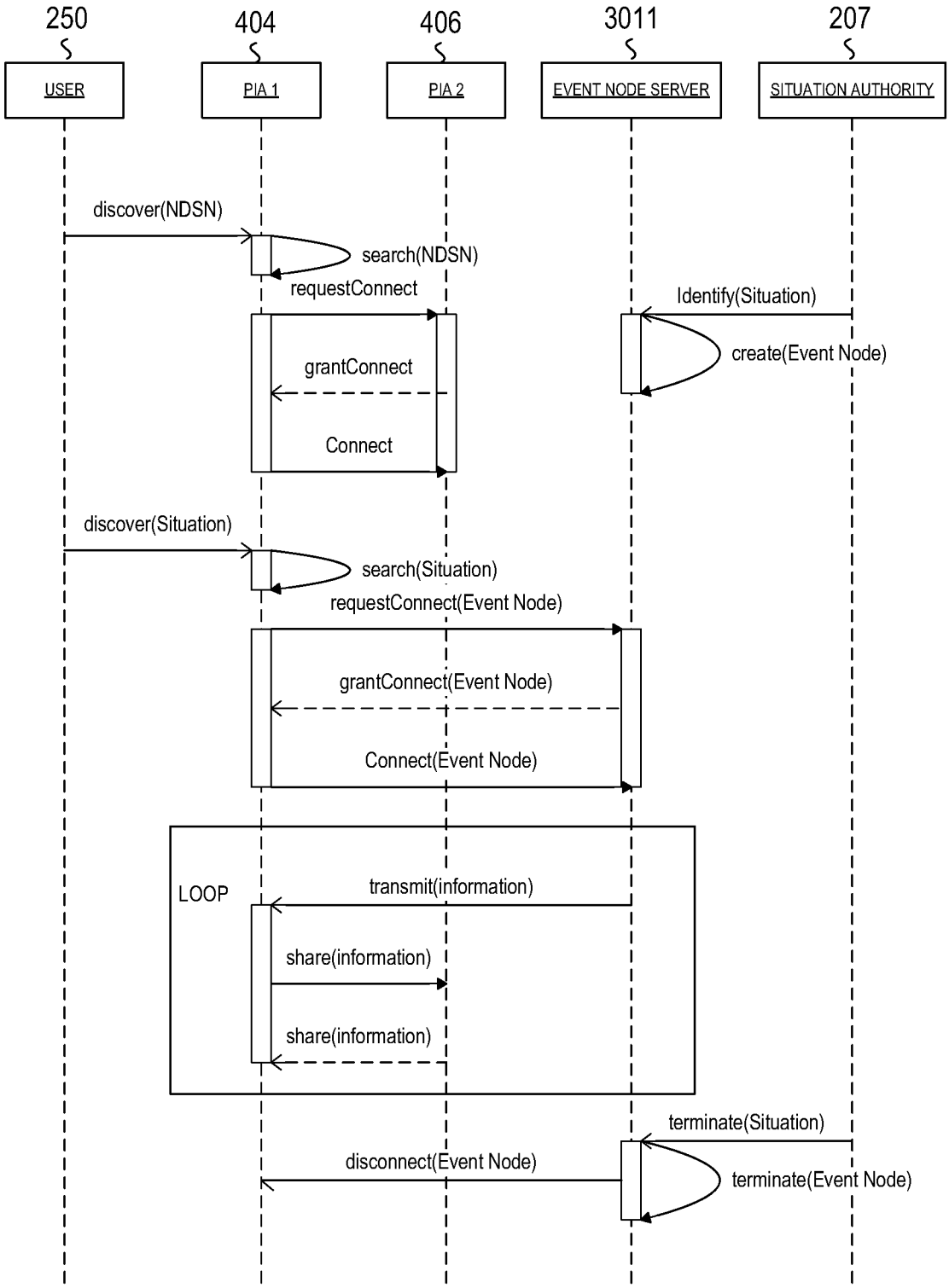

250
404
406
3011
207
USER
PIA 1
PIA 2
EVENT NODE SERVER
SITUATION AUTHORITY
discover(NDSN)
search(NDSN)
requestConnect
Identify(Situation)
create(Event Node)
grantConnect
Connect
discover(Situation)
search(Situation)
requestConnect(Event Node)
grantConnect(Event Node)
Connect(Event Node)
LOOP
transmit(information)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

Fig. 35

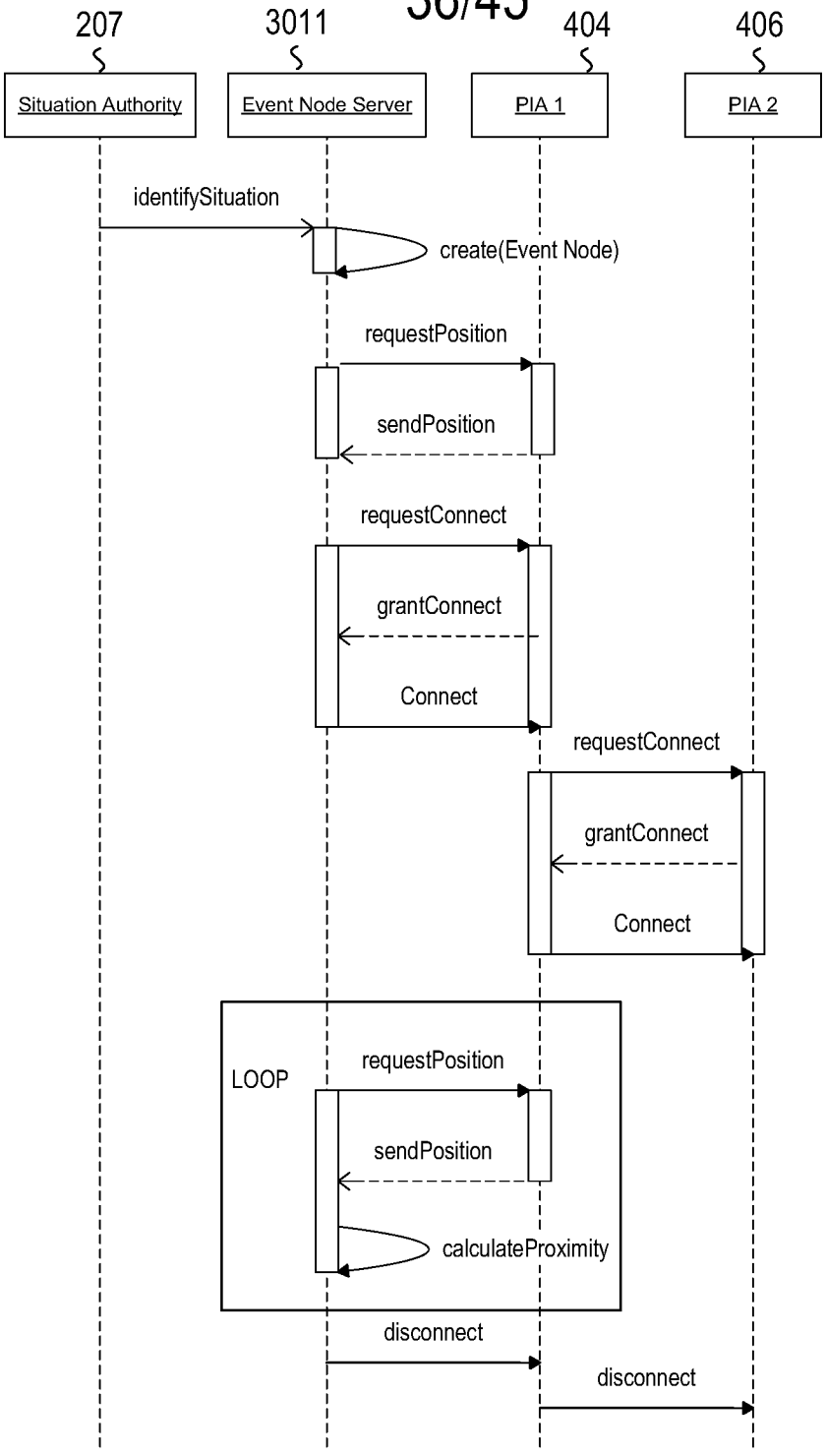

207
3011
404
406
Situation Authority
Event Node Server
PIA 1
PIA 2
identifySituation
create(Event Node)
requestPosition
sendPosition
requestConnect
grantConnect
Connect
requestConnect
grantConnect
Connect
LOOP
requestPosition
sendPosition
calculateProximity
disconnect
disconnect

Fig. 36

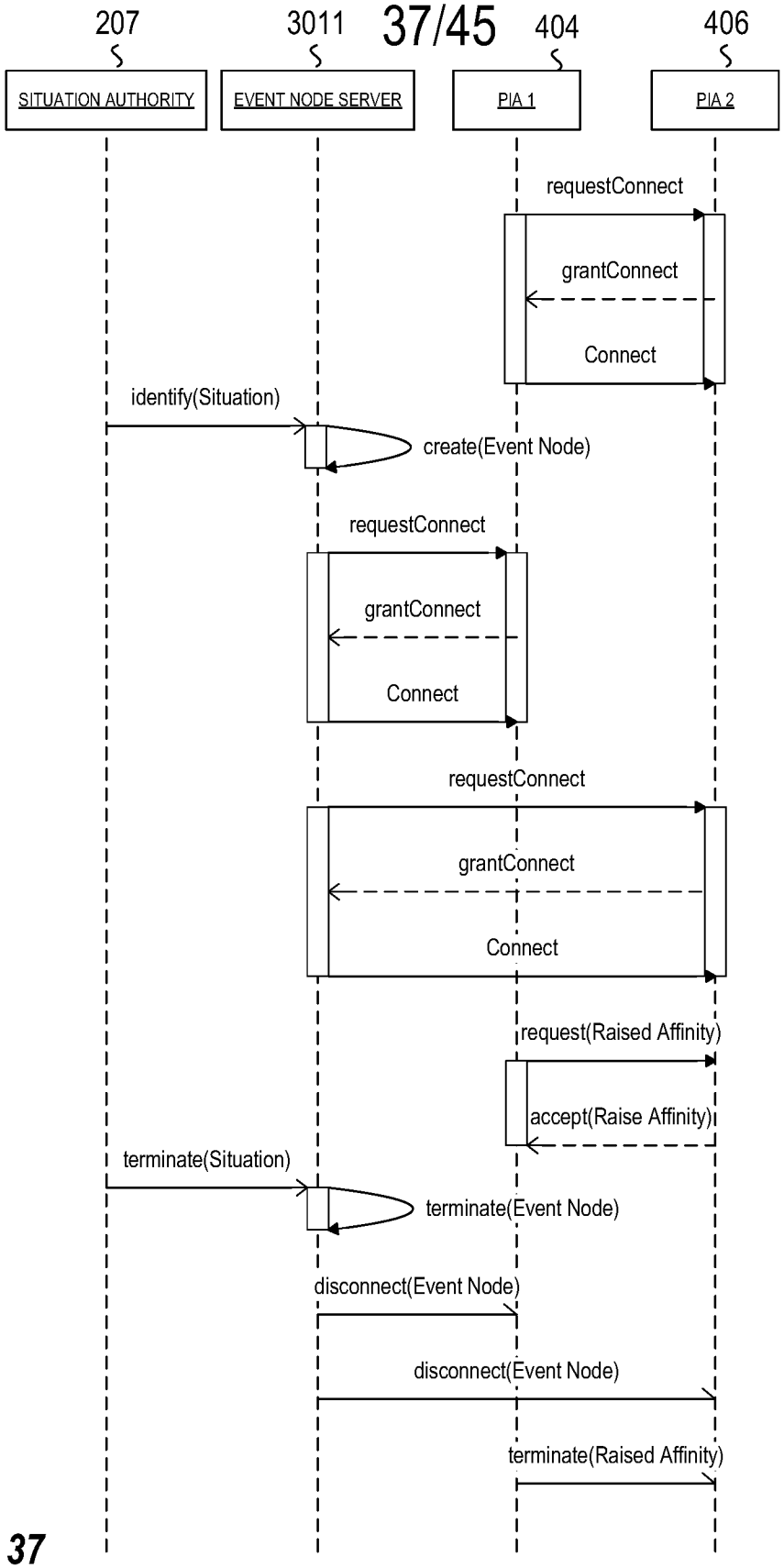

207
3011
404
406
SITUATION AUTHORITY
EVENT NODE SERVER
PIA 1
PIA 2
requestConnect
grantConnect
Connect
identify(Situation)
create(Event Node)
requestConnect
grantConnect
Connect
requestConnect
grantConnect
Connect
request(Raised Affinity)
accept(Raise Affinity)
terminate(Situation)
terminate(Event Node)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

Fig. 37

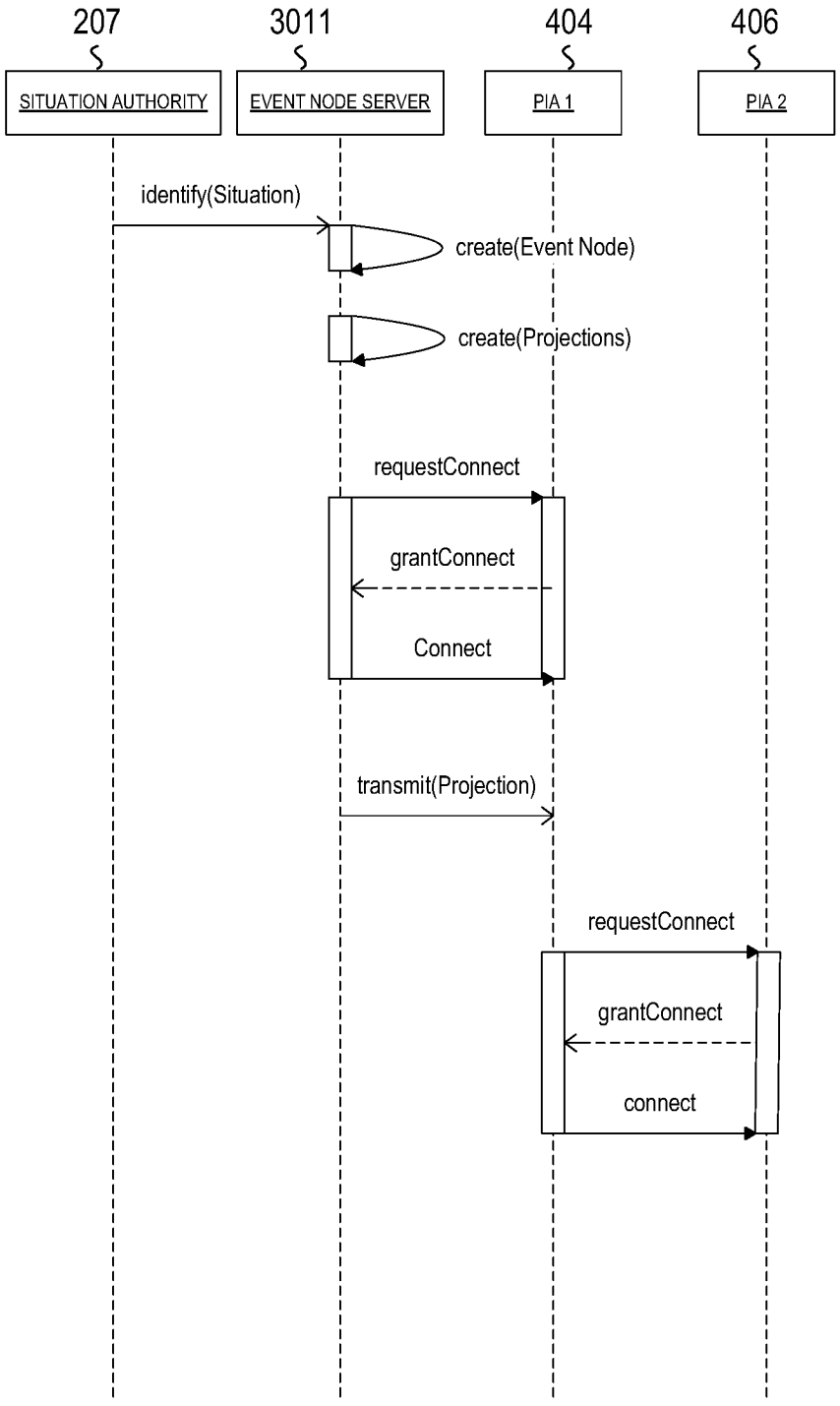

207
3011
404
406
SITUATION AUTHORITY
EVENT NODE SERVER
PIA 1
PIA 2
identify(Situation)
create(Event Node)
create(Projections)
requestConnect
grantConnect
Connect
transmit(Projection)
requestConnect
grantConnect
connect

Fig. 38

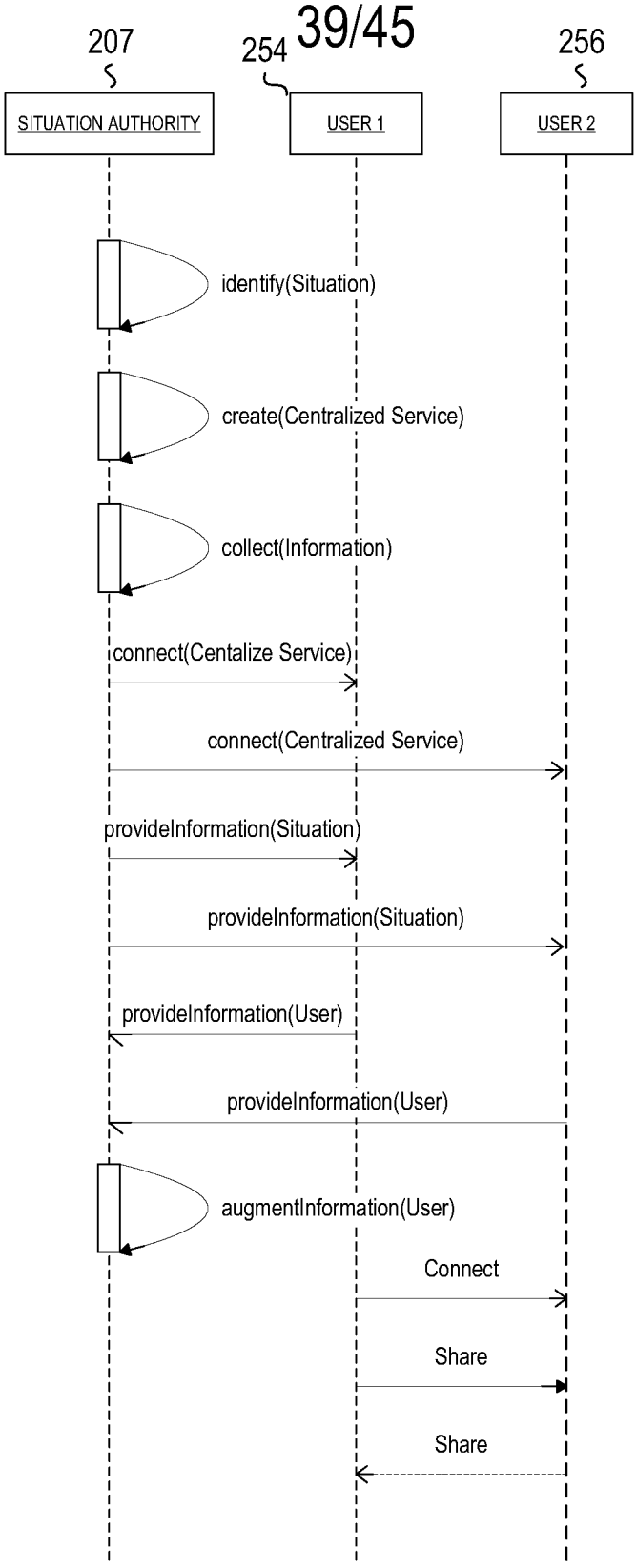

207
254
256
SITUATION AUTHORITY
USER 1
USER 2
identify(Situation)
create(Centralized Service)
collect(Information)
connect(Centalize Service)
connect(Centralized Service)
provideInformation(Situation)
provideInformation(Situation)
provideInformation(User)
provideInformation(User)
augmentInformation(User)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

Fig. 39

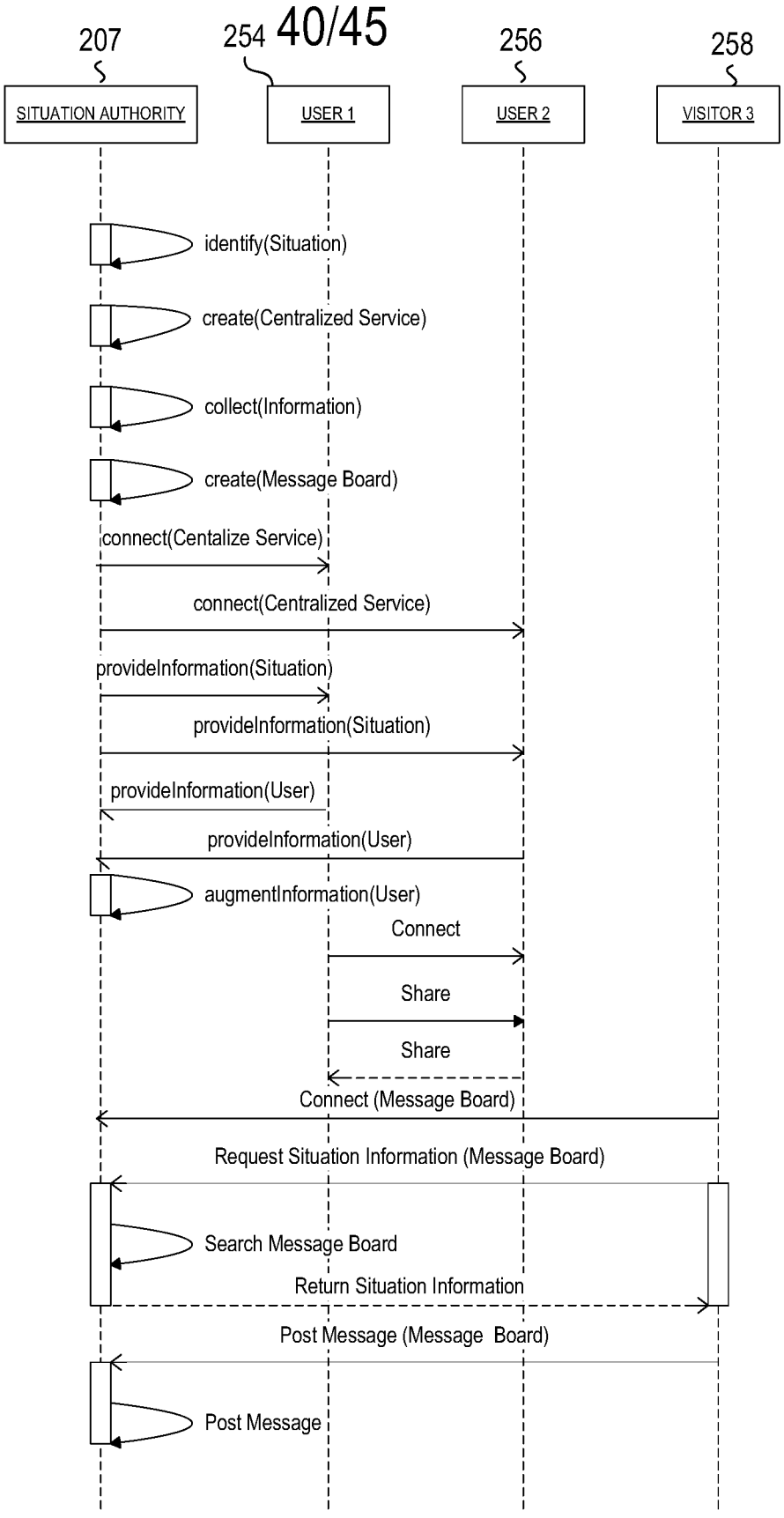

207
254
256
258
SITUATION AUTHORITY
USER 1
USER 2
VISITOR 3
identify(Situation)
create(Centralized Service)
collect(Information)
create(Message Board)
connect(Centalize Service)
connect(Centralized Service)
provideInformation(Situation)
provideInformation(Situation)
provideInformation(User)
provideInformation(User)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

Fig. 40

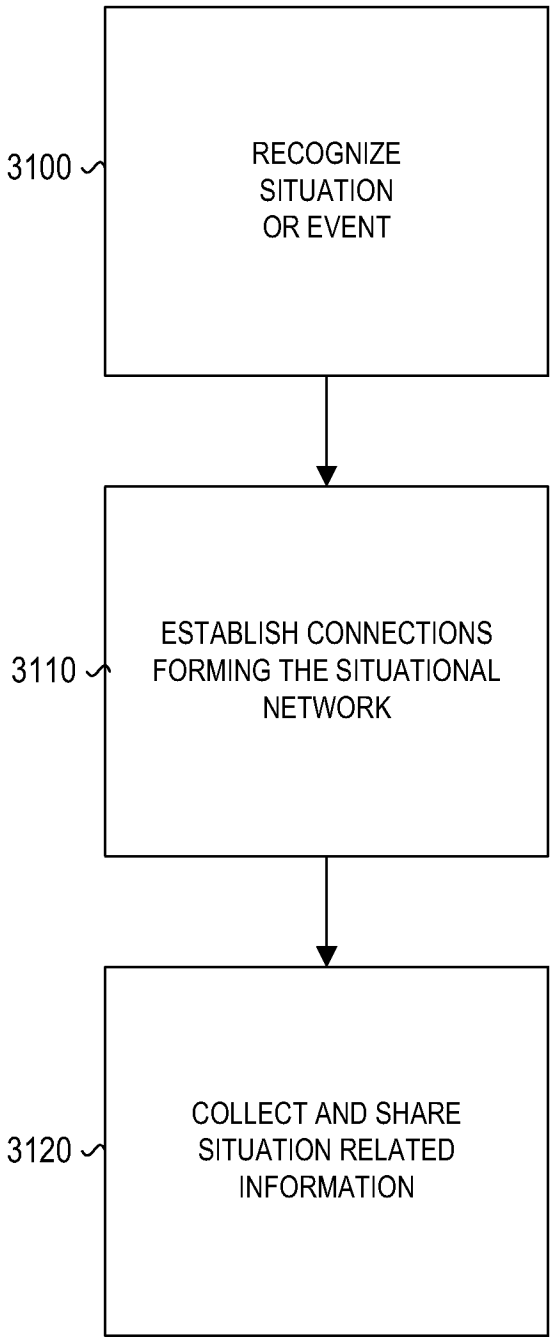

3100
RECOGNIZE SITUATION OR EVENT
3110
ESTABLISH CONNECTIONS FORMING THE SITUATIONAL NETWORK
3120
COLLECT AND SHARE SITUATION RELATED INFORMATION

Fig. 41

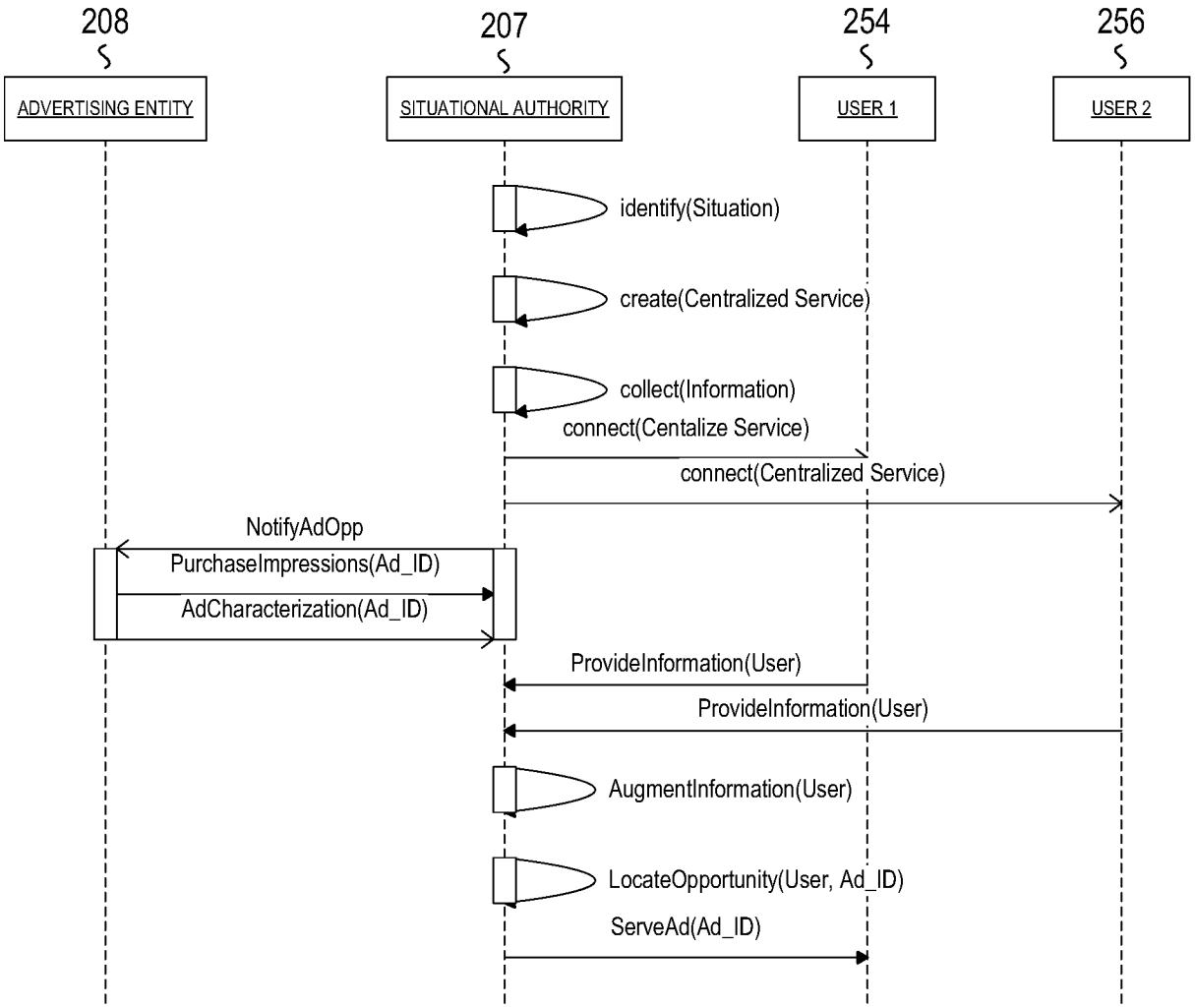

208
207
254
256
ADVERTISING ENTITY
SITUATIONAL AUTHORITY
USER 1
USER 2
identify(Situation)
create(Centralized Service)
collect(Information)
connect(Centalize Service)
connect(Centralized Service)
NotifyAdOpp
PurchaseImpressions(Ad_ID)
AdCharacterization(Ad_ID)
ProvideInformation(User)
ProvideInformation(User)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

Fig. 42

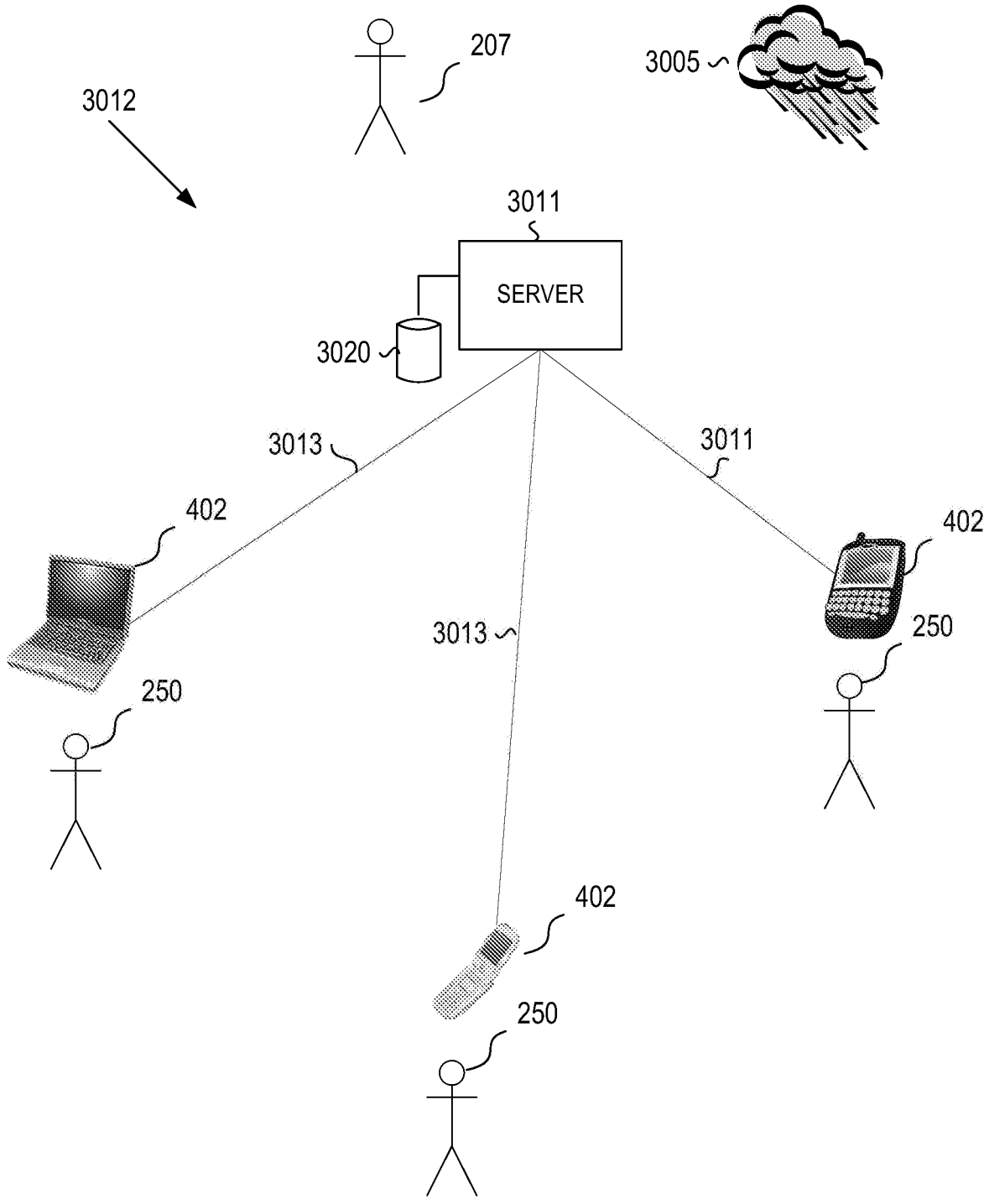

207
3005
3012
3011
SERVER
3020
3013
3011
402
402
3013
250
250
402
250

Fig. 43

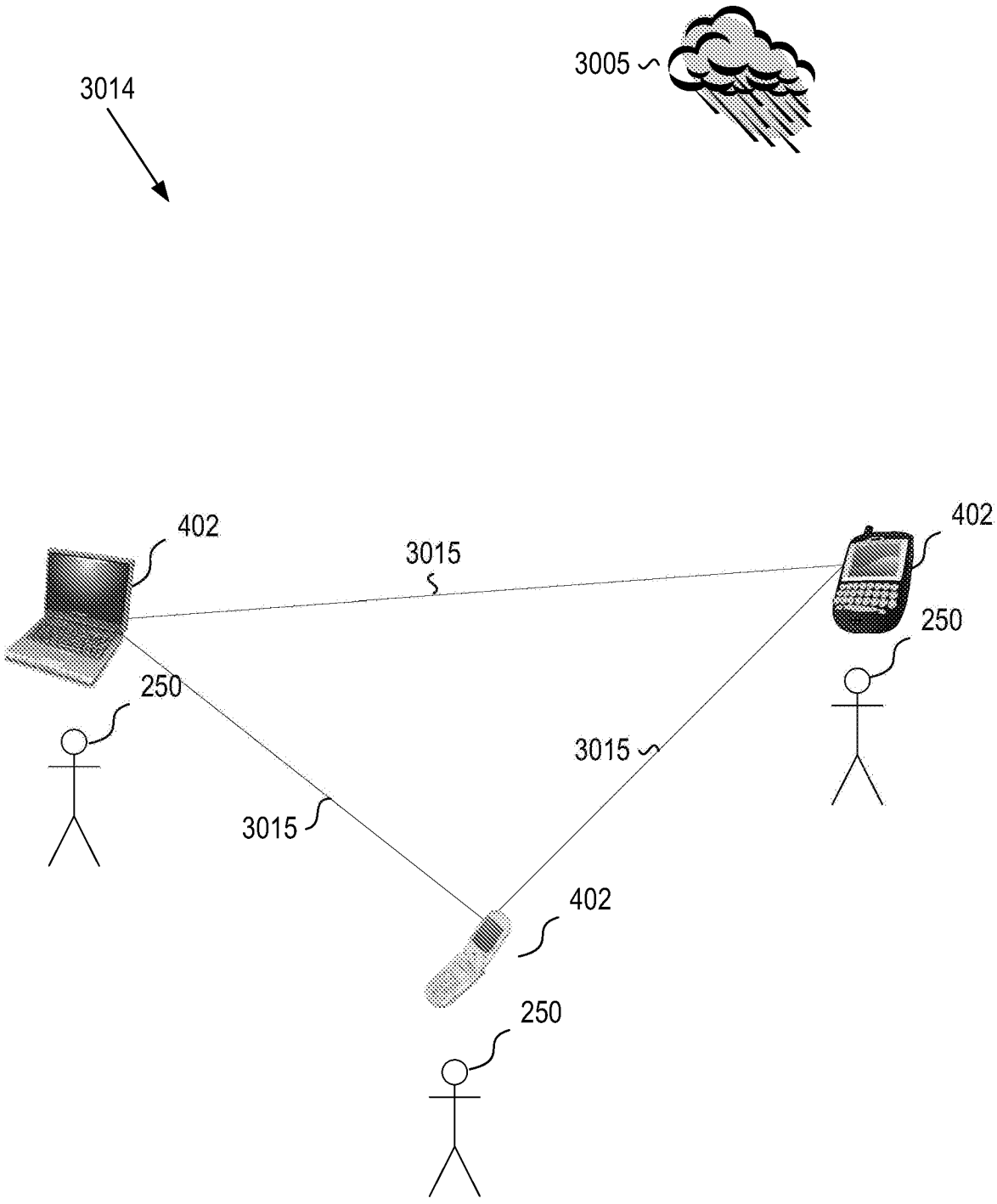


Fig. 44

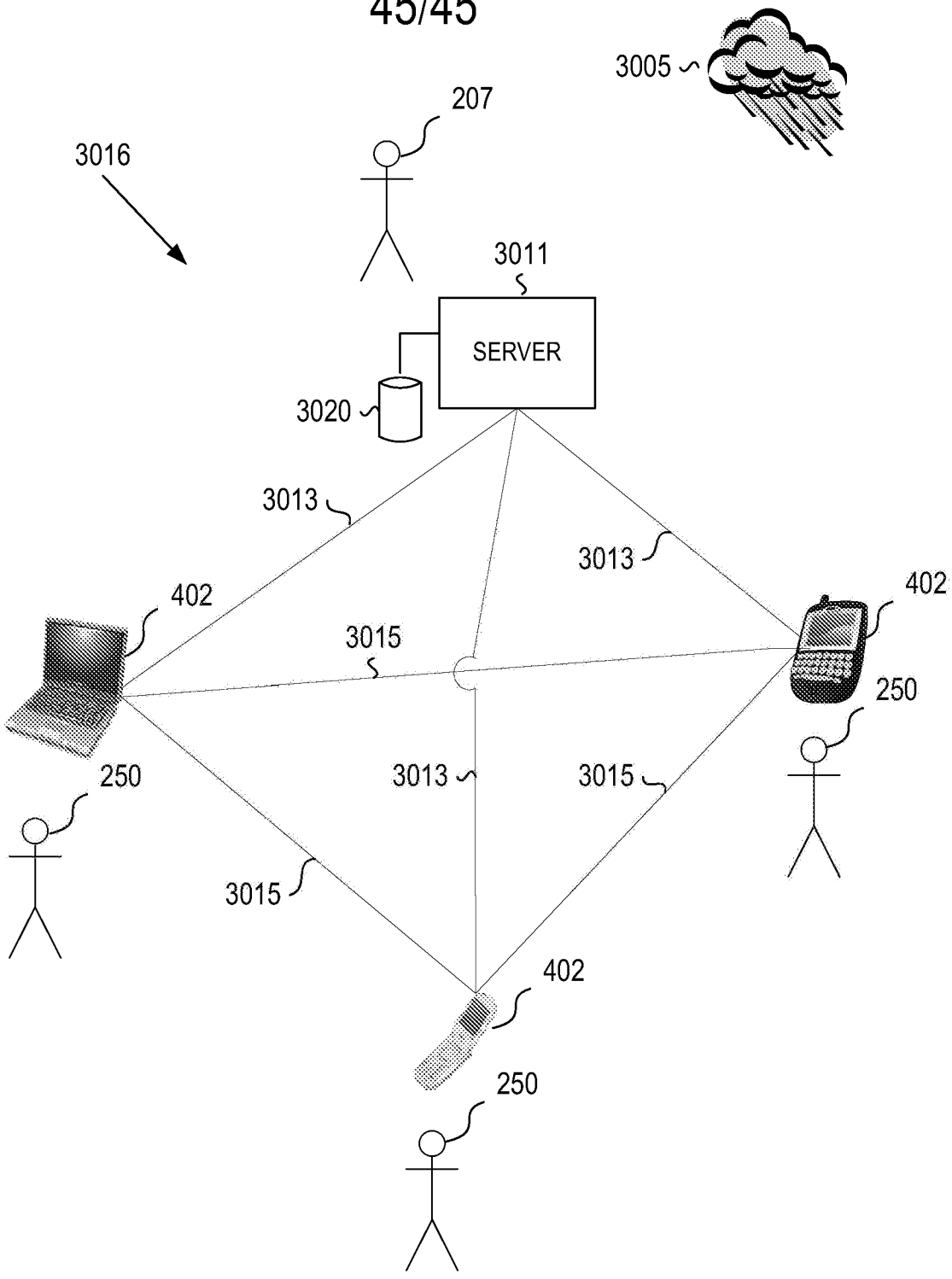

3005
207
3016
3011
SERVER
3020
3013
3013
402
402
3015
250
250
3013
3015
3015
402
250

Fig. 45

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/883,830	**09/12/2024 05:47:33 PM Z ET**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4619	FILED BY	Shari Jackson
PATENT CENTER #	67154272	AUTHORIZED BY	Maxim Rapoport
CUSTOMER #	1473	FILING DATE	-
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Thomas Cona

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 061075	**E20249BH49168901**	**Shari Jackson**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
061075	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1830	PROCESSING FEE, EXCEPT IN PROVISIONAL APPLICATIONS	140.00	1	140.00
1817	REQUEST FOR PRIORITIZED EXAMINATION	4200.00	1	4200.00
1111	UTILITY PATENT APPL. SEARCH FEE	700.00	1	700.00
1011	BASIC FILING FEE - UTILITY (PAPER FILING ALSO REQUIRES NON-ELECTRONIC FILING FEE UNDER 1.16(T))	320.00	1	320.00

1311	PATENT APPL. EXAMINATION FEE	800.00	1	800.00
1054	Non-DOC-X Filing Surcharge	400.00	1	400.00
			TOTAL AMOUNT:	**$6,560.00**

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 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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Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

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CUSTOMER #	1473	FIRST NAMED INVENTOR	Thomas Cona
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Maxim Rapoport

Documents

TOTAL DOCUMENTS: 12

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
000137-0005-129-ADS.pdf		10	Application Data Sheet	2180 KB
000137-0005-129-POA.pdf		2	Power of Attorney	156 KB
000137-0005-129-PA.pdf		8	-	158 KB
000137-0005-129-PA-A.PE.pdf	(1-1)	1	Preliminary Amendment	104 KB
000137-0005-129-PA-SPEC.pdf	(2-2)	1	Specification	141 KB
000137-0005-129-PA-CLM.pdf	(3-7)	5	Claims	113 KB
000137-0005-129-PA-REM.pdf	(8-8)	1	Applicant Arguments/Remarks Made in an Amendment	104 KB

000137-0005-129-Track_1.pdf		1	Track One Request	187 KB
000137-0005-129-Drawings.pdf		45	Drawings-other than black and white line drawings	682 KB
000137-0005-129-Declaration.pdf		7	Oath or Declaration filed	828 KB
000137-0005-129-Specification.pdf		52	-	5361 KB
000137-0005-129-Specification-SPEC.pdf	(1-50)	50	Specification	5273 KB
000137-0005-129-Specification-CLM.pdf	(51-51)	1	Claims	42 KB
000137-0005-129-Specification-ABST.pdf	(52-52)	1	Abstract	39 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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000137-0005-129-PA-REM.pdf	4F2F6488C668AF90F4175D31809734BB688ADCB6FFF4404213 9B43876D6C01DDFA2F101434D3CB44C363E699FAF169322EF BAB57BE66AA130A974C386EE112BE

000137-0005-129-Track_1.pdf	A1415988CE77B228315D24C1B240418F211E21452DB01EC3C50C2223F2F4E198301AD7C2F8FB9AD120F7F3F932C1200C9E7086799BD3B628BA53FB86C39C8409
000137-0005-129-Drawings.pdf	EE86522973CCBC428D9469E4E4F5D2805A91663C414943E4824B9CDD90F1EC272BFF294F5BE24F8890567FF73036AC7ABFB4E205C995275107639F3F0FAFA022
000137-0005-129-Declaration.pdf	350FB50F0B7B44D2576813B189F66FC57CA061EBAA10924EC13F1B1AC429375963FA769E2C656FA73E024D27BFFDFEDE2F3AD1030920304637CC6B35695D9901
000137-0005-129-Specification.pdf	F0EBFEC347B49899D2521F86504C175FC101D0557BA504C38768E51E43D848C5A67D77E8E1274F9590D95378DE13033969B52BD874F4008DE19D0769CD34FB92
000137-0005-129-Specification-SPEC.pdf	066A7DC12AC6BFA2C13446F50D360E32C90C0583F2E5B3EB51296F7C78A89F94BDFDDC6730B546411EF50DC959890B69C9043ED372234BCFBDC3A67F04DA4424
000137-0005-129-Specification-CLM.pdf	3D33154A82FCA772E05C137064BB9F26FF76CC738A3F6D78958072AA3BA5B835AFDAE3000B5CA566C29F1BB68BE21129DE51117F691989C79B645FD3C14E1321
000137-0005-129-Specification-ABST.pdf	CAAD14AE4CFC804E463E0B78DCEDFA3F3F42E0CA2346917B9683D4EBBE97DF460F9047414BA5C5D507890E306EC400542385AE30C879F12B88BD9269241B2577

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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.

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

PTO/AIA/82B (07-13)
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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	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Thomas Cona
Title	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	000137-0005-129

SIGNATURE of Applicant or Patent Practitioner

Signature	/Maxim A. Rapoport/	Date	September 12, 2024
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

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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 PTO/AIA/82A.)

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OR

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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	/Ch Eld/	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.

Doc Code: TRACK1.REQ
Document Description: TrackOne Request

000137-0005-129

PTO/AIA/424 (04-14)

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

First Named Inventor:	Thomas Cona	Nonprovisional Application Number (if known):	Not Yet Assigned
Title of Invention:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK		

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

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently $0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. [X] **Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)**

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

---OR---

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

ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, **or** the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. [ ] **Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)**

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

Signature	/Maxim A. Rapoport/	Date:	September 12, 2024
Name (Print/Typed)	Maxim A. Rapoport	Practitioner 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. Submit multiple forms if more than one signature is required.**

[X] *Total of 1 forms are submitted.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/883,830	09/12/2024		2220	000137-0005-129	18	2

CONFIRMATION NO. 4619

FILING RECEIPT



1473
Haley Guiliano LLP
75 Broad Street
Suite 1000
New York, NY 10004-3226

Date Mailed: 09/25/2024

Receipt is acknowledged of this non-provisional utility 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 FIRST INVENTOR, 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 corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction 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 provided that the request is grantable.

Inventor(s)

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

Applicant(s)

SitNet LLC, Dover, DE;

Power of Attorney: The patent practitioners associated with Customer Number 1473

Domestic Priority data as claimed by applicant

This application is a CON of 18/639,871 04/18/2024
which is a CON of 17/902,427 09/02/2022 ABN
which is a CON of 16/730,339 12/30/2019 PAT 11,470,682
which is a CON of 16/207,059 11/30/2018 PAT 10,524,307
which is a CON of 16/164,715 10/18/2018 PAT 10,375,759
which is a CON of 15/638,722 06/30/2017 PAT 10,117,290
which is a CON of 14/861,340 09/22/2015 PAT 9,877,345
which is a CON of 13/612,964 09/13/2012 PAT 9,143,535
which is a CON of 13/274,712 10/17/2011 PAT 8,332,454
which is a DIV of 11/924,711 10/26/2007 PAT 8,069,202
which claims benefit of 60/887,843 02/02/2007

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

Permission to Access Application via Priority Document Exchange: No

Permission to Access Search Results: No

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

If Required, Foreign Filing License Granted: 09/23/2024
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/883,830**
Projected Publication Date: 01/02/2025
Non-Publication Request: No
Early Publication Request: No
Title

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Preliminary Class

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

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

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patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/883,830

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	320
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	700
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800
TOTAL CLAIMS (37 CFR 1.16(i))	18 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1820

APPLICATION AS AMENDED - PART II

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

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

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

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

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

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

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Kathi Vidal
Under Secretary of Commerce for Intellectual Property and
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Derrick Brent
Deputy Under Secretary of Commerce for Intellectual Property and
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/883,830	**10/11/2024 01:50:40 PM Z ET**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4619	FILED BY	Shari Jackson
PATENT CENTER #	67533393	FILING DATE	09/12/2024
CUSTOMER #	1473	FIRST NAMED INVENTOR	Thomas Cona
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Maxim Rapoport

Documents

TOTAL DOCUMENTS: 6

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
000137-0005-129-IDS.pdf	3	Letter specifying the conditions for filing under 37 CFR 1.97	110 KB
000137-0005-129-SB08-3.pdf	8	Information Disclosure Statement (IDS) Form (SB08)	1353 KB
000137-0005-129-SB08-5.pdf	5	Information Disclosure Statement (IDS) Form (SB08)	1352 KB
000137-0005-129-SB08-1.pdf	23	Information Disclosure Statement (IDS) Form (SB08)	1357 KB
000137-0005-129-SB08-2.pdf	8	Information Disclosure Statement (IDS) Form (SB08)	1353 KB
000137-0005-129-SB08-4.pdf	8	Information Disclosure Statement (IDS) Form (SB08)	1354 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
000137-0005-129-IDS.pdf	1D37AC1AA735BDD06CF2C58930A1A45D7067975ABE5A3BDF 98701DC2500E210C11E1DE9D3CE5E7F0864843603930FB2BE 8754A8D1065166CF4AA4FA9F4C4817F
000137-0005-129-SB08-3.pdf	E9758C47650B3DCF09DC17E3B1F6DF29CF00F5736BD75070 AD0CF8D1BB7FC31A1D021E57C8BC71AC01FFE99A974412D3 144ACC965BACC0F0ACB5858315BECD78
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000137-0005-129-SB08-1.pdf	3F1420CE8946FE81C9AA85DC3D21D1AA7B85877D1812DF94 22ABD439E2F2B72074D84DA0FE9D6EB38BD40C5CB68A1F28 D816365399DEE4ADED14E3D2A052046C
000137-0005-129-SB08-2.pdf	A3AEB1561CE6C4BADC75B1295431C1FC24AC226F7149E2D1 211A54F5AD2B3935F63BA1594A25301E5BE9F2C8FA92ED2AA 791130D4CC1B348311DD4F13FC96126
000137-0005-129-SB08-4.pdf	8A2924598D1A40F7F9DEBB25F08506046F65ADD4B0EAD4552 679E830BB16A76A84357E457A0520312E573DE18A54FE82151 B89FFF0DEFEA430D1F56A67690690

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 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.

Docket No.: 000137-0005-129
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Thomas Cona et al.

Application No.: 18/883,830 | Confirmation No.: 4619

Filed: September 12, 2024 | Art Unit: Not Yet Assigned

For: METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK | Examiner: Not Yet Assigned

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

INFORMATION DISCLOSURE STATEMENT (IDS)

Dear Madam:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant(s) direct(s) the attention to the documents listed on the attached PTO/SB/08a. Applicant respectfully request(s) that the information be expressly considered during the prosecution of the above-identified application and that the document(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Copies of all documents are not supplied because they were previously cited by or submitted to the Office in prior application numbers 11/924,711, filed October 26, 2007, 13/274,712, filed October 17, 2011, 13/612,964, filed September 13, 2012, 14/861,340, filed September 22, 2015, 15/638,722, filed June 30, 2017, 16/164,715, filed October 18, 2018, 16/207,059, November 30, 2018, 16/730,339, filed December 30, 2019, 17/902,427, filed September 2, 2022 and 18/639,871, filed April 18, 2024 and relied upon in this application for an earlier filing date under 35 U.S.C. § 120.

Applicant directs the Examiner's attention to the application listed in the table below which may relate to subject matter for which a patent is being sought in the present application and may

contain claims that may be relevant to the present application. Applicant invites the Examiner to review any Office Actions from this application, as well as any communications from Applicant responding thereto, including art cited in Office Actions and communications from Applicant, such as Information Disclosure Statements. Because the Office is in possession of these patent documents, applicant has not provided copies of them. Applicant stands ready, however, to provide any such documents at the Examiner's request. By bringing this application to the Examiner's attention, Applicant does not waive the confidentiality provisions of 35 U.S.C. § 122.

Docket No.	Application No.	Filing Date	First Named Inventor	Examiner's Initials
000137-0005-126	18/639,859	April 18, 2024	Thomas Cona	
000137-0005-127	18/639,871	April 18, 2024	Thomas Cona	
000137-0005-128	18/883,820	September 12, 2024	Thomas Cona	

Litigation Docket No.	Document Title	Filing Date	Examiner's Initials
SDNY-1-23-cv-06389	Meta Platforms, Inc. v. SitNet LLC, SitNet v Meta	July 24, 2023	

IPR No.	Document Title	Filing Date	Examiner's Initials
IPR2024-00612	Meta Platforms, Inc. v. SitNet LLC	March 4, 2024	
IPR2024-00531	Meta Platforms, Inc. v. SitNet LLC	February 27, 2024	
IPR2024-00530	Meta Platforms, Inc. v. SitNet LLC	February 27, 2024	
IPR2024-00529	Meta Platforms, Inc. v. SitNet LLC	February 27, 2024	
IPR2024-00528	Meta Platforms, Inc. v. SitNet LLC	March 4, 2024	

Applicant submits that this Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98 and respectfully requests that the Examiner consider the listed document.

Dated: October 11, 2024

Respectfully submitted,

By: /Maxim A. Rapoport/
Maxim A. Rapoport
Registration No. 67,675
HALEY GUILIANO LLP
Customer No. 75563
Attorney for Applicant
75 Broad Street, Suite 1000
New York, CA 10004
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PTO/SB/08a (01-22)
Approved for use through 05/31/2024. 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	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

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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	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]

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	1	Doc 25 - NOTICE OF META'S MOTION TO DISMISS	☐
	2	Doc 25-1 - EXHIBIT TO FED. R. CIV. P. 12(b)(6) MOTION TO DISMISS	☐
	3	Doc 25-2 - [PROPOSED] ORDER GRANTING META'S MOTION TO DISMISS	☐
	4	Doc 26 - NOTICE OF META'S MOTION TO DISMISS	☐
	5	Doc 26-1 - [PROPOSED] ORDER GRANTING META'S MOTION TO DISMISS	☐
	6	Doc 27 - MEMORANDUM OF LAW IN SUPPORT OF META'S MOTION TO DISMISS	☐
	7	Doc 28 - DECLARATION OF DANA M. SESHENS IN SUPPORT OF META'S MOTION TO DISMISS	☐
	8	Doc 28-1 - EXHIBIT TO FED. R. CIV. P. 12(b)(6) MOTION TO DISMISS	☐
	9	Doc 28-2 - MEMORANDUM OF LAW IN SUPPORT OF META'S MOTION TO DISMISS	☐
	10	Doc 28-3 - EXHIBIT TO FED. R. CIV. P. 12(b)(6) MOTION TO DISMISS	☐
	11	Doc 40 - PLAINTIFF'S MEMORANDUM OF LAW IN OPPOSITION TO DEFENDANT'S MOTION TO DISMISS	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	12	Doc 40-1 - Appendix A - Comparison with Patent Ineligible Claims	☐
	13	Doc 40-2 - Appendix B - Comparison with Patent Eligible Claims	☐
	14	Doc 40-3 - Appendix C - Responsive Rule 8.G.i Chart	☐
	15	Doc 41 - REPLY IN SUPPORT OF META'S MOTION TO DISMISS	☐
	16	Doc 41-1 - Exhibit A - Claim Comparison Chart	☐
	17	Doc 51 - Opinion and Order	☐
	18	Doc 56 - META'S ANSWER TO PLAINTIFF'S COMPLAINT	☐
	19	Doc 57 - JOINT CLAIM CONSTRUCTION BRIEF	☐
	20	Doc 57-1 - JOINT APPENDIX TO THE JOINT CLAIM CONSTRUCTION BRIEF	☐
	21	Doc 57-10 - Exhibit 9 Internet Dictionary	☐
	22	Doc 57-11 - Exhibit 10 The Facts on File Dictionary of Computer Science	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	23	Doc 57-12 DECLARATION OF KATHRYN BI IN SUPPORT OF META'S RESPONSIVE CLAIM CONSTRUCTION BRIEF	☐
	24	Doc 57-3 - Exhibit 2 Dictionary of Computing_Pountain	☐
	25	Doc 57-4 - Exhibit 3 Merriam-Webster's Collegiate Dictionary	☐
	26	Doc 57-5 - Exhibit 4 Dictionary of Computing_Collin	☐
	27	Doc 57-6 - Exhibit 5 US8249932B1 Prosecution History	☐
	28	Doc 57-8 - Exhibit 7 Computer Jargon_Martin	☐
	29	Doc 57-9 - Exhibit 8 Newton's Telecom Dictionary	☐
	30	Doc 58 - AMENDED JOINT CLAIM CONSTRUCTION CHART	☐
	31	Doc 79 - OPINION AND ORDER; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 79 - OPINION AND ORDER dated 07/16/2024 (10 Pages)	☐
	32	Doc 80 - Letter Motion for Discovery Protective Order; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80 - Letter Motion for Discovery Protective Order dated 07/17/2024 (74 Pages)	☐
	33	Doc 80-1 Exhibit A - SitNet 30b6 Notice; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-1 Exhibit A - SitNet 30b6 Notice dated 07/17/2024 (15 Pages)	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	34	Doc 80-10 Exhibit J - April 19 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-10 Exhibit J - April 19 2024 Email Thread dated 07/17/2024 (8 Pages)	☐
	35	Doc 80-2 Exhibit B - Meta Response to SitNet 30b6 Notice; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-2 Exhibit B - Meta Response to SitNet 30b6 Notice dated 07/17/2024 (4 Pages)	☐
	36	Doc 80-3 Exhibit C - July 8 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-3 Exhibit C - July 8 2024 Email Thread dated 07/17/2024 (16 Pages)	☐
	37	Doc 80-4 Exhibit D - May 30 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-4 Exhibit D - May 30 2024 Email Thread dated 07/17/2024 (4 Pages)	☐
	38	Doc 80-5 Exhibit E - June 4 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-5 Exhibit E - June 4 2024 Email Thread dated 07/17/2024 (5 Pages)	☐
	39	Doc 80-6 Exhibit F - June 24 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-6 Exhibit F - June 24 2024 Email Thread dated 07/17/2024 (5 Pages)	☐
	40	Doc 80-7 Exhibit G - Excerpt of Markman Hearing Transcript; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-7 Exhibit G - Excerpt of Markman Hearing Transcript dated 07/17/2024 (7 Pages)	☐
	41	Doc 80-8 Exhibit H - July 12 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-8 Exhibit H - July 12 2024 Email Thread dated 07/17/2024 (3 Pages)	☐
	42	Doc 80-9 Exhibit I - 20240309 MET_Letter re Discovery Requests; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-9 Exhibit I - 20240309 MET_Letter re Discovery Requests dated 07/17/2024 (4 Pages)	☐
	43	Doc 97 - AMENDED CIVIL CASE MANAGEMENT PLAN AND SCHEDULING ORDER, Aug 05, 2024	☐
	44	Doc 98 - NOTICE OF META'S MOTION FOR SUMMARY JUDGMENT, Jul 31, 2024	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	45	Doc 99 - META'S STATEMENT OF MATERIAL FACTS IN SUPPORT OF ITS MOTION FOR SUMMARY JUDGMENT	☐
	46	Edit information on your Facebook profile and choose who can see it	☐
	47	Engagement Custom Audiences - Meta Marketing API	☐
	48	Estimating the Capacity of the Location–Based Advertising Channel	☐
	49	Event and Local Ads - Meta Marketing API	☐
	50	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024- 00528, June 21, 2024, 65 pages.	☐

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	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) 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.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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.

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Approved for use through 05/31/2024. OMB 0651-0031
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Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

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	5774670	A	1998-06-30	MONTULLI LOU	
	2	5835907	A	1998-11-10	NEWMAN BRIAN	
	3	6028514	A	2000-02-22	LEMELSON et al.	
	4	6091956	A	2000-07-18	HOLLENBERG DENNIS D	
	5	6112074	A	2000-08-29	PINDER ELLIS ARTHUR	
	6	6295001	B1	2001-09-25	BARBER JERRY KEITH	
	7	6424840	B1	2002-07-23	FITCH et al.	
	8	6542750	B2	2003-04-01	HENDREY et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Examiner Name	
	Attorney Docket Number	000137-0005-129

	9	6563910	B2	2003-05-13	MENARD et al.	
	10	6594355	B1	2003-07-15	DEO et al.	
	11	6600928	B1	2003-07-29	AHYA et al.	
	12	6785681	B2	2004-08-31	KESKAR et al.	
	13	6788766	B2	2004-09-07	LOGAN JAMES D	
	14	6826472	B1	2004-11-30	KAMEI et al.	
	15	6947754	B2	2005-09-20	OGASAWARA KOICHI	
	16	6970871	B1	2005-11-29	RAYBURN TERRY	
	17	7016307	B2	2006-03-21	VASUDEV et al.	
	18	7026925	B2	2006-04-11	ROCHE et al.	
	19	7027055	B2	2006-04-11	ANDERSON et al.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Attorney Docket Number	000137-0005-129

	20	7058385	B2	2006-06-06	LAUPER ERIC	
	21	7084775	B1	2006-08-01	SMITH MICHAEL R	
	22	7085818	B2	2006-08-01	BROWN et al.	
	23	7091829	B2	2006-08-15	LEE HONG-KYU	
	24	7139722	B2	2006-11-21	PERRELLA et al.	
	25	7151939	B2	2006-12-19	SHEYNBLAT LEONID	
	26	7177398	B2	2007-02-13	MEER et al.	
	27	7181346	B1	2007-02-20	KLEIST et al.	
	28	7194249	B2	2007-03-20	PHILLIPS et al.	
	29	7221928	B2	2007-05-22	LAIRD et al.	
	30	7231220	B2	2007-06-12	REDDY et al.	

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	Attorney Docket Number	000137-0005-129

	31	7233974	B2	2007-06-19	KAWAHARA et al.	
	32	7239871	B2	2007-07-03	SHAMP et al.	
	33	7242948	B2	2007-07-10	FLEISCHER et al.	
	34	7245925	B2	2007-07-17	ZELLNER SAMUEL N	
	35	7254607	B2	2007-08-07	HUBBARD et al.	
	36	7263614	B2	2007-08-28	Roskind James A.	
	37	7266558	B2	2007-09-04	GRAY MICHAEL D	
	38	7283045	B1	2007-10-16	MANZ PAUL C	
	39	7284033	B2	2007-10-16	Jhanji Neeraj	
	40	7317705	B2	2008-01-08	HANSON JOEL	
	41	7321920	B2	2008-01-22	Washburn Carl	

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	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	42	7487112	B2	2009-02-03	BARNES JR MELVIN L	
	43	7523191	B1	2009-04-21	THOMAS et al.	
	44	7532900	B2	2009-05-12	WILSON et al.	
	45	7557689	B2	2009-07-07	SEDDIGH et al.	
	46	7644144	B1	2010-01-05	HORVITZ et al.	
	47	7672281	B1	2010-03-02	HUMPHRIES et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Filing Date	2024-09-12
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	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
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	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Application Number	18883830
	Filing Date	2024-09-12
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	Attorney Docket Number	000137-0005-129

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	3	A New Center for Crisis Response on Facebook	☐
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	5	About engagement custom audiences	☐
	6	Ad Campaign Structure - Meta Marketing API	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	7	Ad server definition_Adjust	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	28	Detecting Hit Shaving in Click-Through Payment Schemes	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
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	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
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(**Not for submission under 37 CFR 1.99)**

Application Number	18883830
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Examiner Name	
Attorney Docket Number	000137-0005-129

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

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☒ A certification statement is not submitted herewith.

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

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☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	1	View insights about reactions to your ad	☐
	2	WAP (Wireless Application Protocol) - Tech-FAQ	☐
	3	Web Pages, Send Word Now; http://www.sendwordnow.com, Jul. 19, 2007, 11 pgs.	☐
	4	What are Call-to-Action Buttons in Meta Ads Manager	☐
	5	What are GPS coordinates and how do they work?	☐
	6	What are some things I can do to stay safe on Facebook when requesting and offering help in Crisis Response_Facebook Help Center	☐
	7	What is a Facebook Pixel_Meta's tracking tool, explained	☐
	8	What is a Web Browser - Definition from Techopedia	☐
	9	What is an ad server	☐
	10	Ziv et al., "An Exploration on Mobile Social Networking: Dodgeball as a Case in Point", Department of Management Polytechnic University IEEE Conference Proceedings, MBusiness Conference, Jun. 26, 2006, 1-7 pgs.	☐

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) 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.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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 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.

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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.

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Attorney Docket Number	000137-0005-129

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	1	IPR2024-00612 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	2	IPR2024-00612 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -8,249,932_IPR2024-00612 dated 07/26/2024 (8 Pages)	☐
	3	JACKSON, Joab, "Disaster Prediction Social Networking Boosted by Geo-Data Feeds", http://news. nationalgeographic.com; October 19, 2006, 5 pgs.	☐
	4	KIM, Ryan, "Hey Baby, want a dale?", www.sfgate.com, July 23, 2005, 3 pgs.	☐
	5	Lookalike Audiences - Meta Marketing API	☐
	6	Manage Your Ad Object's Status	☐
	7	Marketing API Reference	☐
	8	Meta Complaint FINAL 6 21 22	☐
	9	Nena Technical Requirements Document for Location Information to Support IP-Based Emergency Services, Nena 08-752 Issue 1, Dec. 21, 2006, 33 pages.	☐
	10	Network Analysis - Some Basic Principles	☐
	11	Official Events API - Facebook Pages API	☐

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	12	Official Google Blog - Why we're buying DoubleClick	☐
	13	ONLINE FORUMS SUPPORTING GRASSROOTS PARTICIPATION in Emergency Preparedness and Response	☐
	14	Overview - Graph API	☐
	15	Overview - Meta Marketing API	☐
	16	PETITION FOR INTER PARTES REVIEW OF CLAIMS 1-11, 22, AND 23 OF U.S. PATENT NO. 8,249,932 & Exhibits	☐
	17	PETITION FOR INTER PARTES REVIEW OF CLAIMS 12-21 OF U.S. PATENT NO. 8,249,932 & Exhibits	☐
	18	PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 11,470,682 & Exhibits	☐
	19	PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 8,332,454 & Exhibits	☐
	20	PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 9,877,345 & Exhibits	☐
	21	PGP Lets You Take Charge of Your Cookies_WIRED	☐
	22	Phillips, Brenda D. Ph.D, et al, “Social Science Research Needs: A Focus on Vulnerable Populations, Forecasting and Warnings”, Feb. 2006, Hurricane Forecast Socio-economic Workshop, Pomona, CA, 11 pgs.	☐

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	23	Pop-up ads OK for Tripod - CNET	☐
	24	Post Engagement in Facebook Ads	☐
	25	Preliminary Response to Petition for Inter Partes Review filed by Meta Platforms, INC. vs. Sitnet LLC., of U.S. Patent No. 8,249,932, Under IPR Case No.: 2024-00528, June 21, 2024, 29 pages.	☐
	26	Preliminary Response to Petition for Inter Partes Review filed by Meta Platforms, INC. vs. Sitnet LLC., of U.S. Patent No. 8,332,454, Under IPR Case No.: 2024-00529, June 13, 2024, 27 pages.	☐
	27	Preliminary Response to Petition for Inter Partes Review filed by Meta Platforms, INC. vs. Sitnet LLC., of U.S. Patent No. 9,877,345, Under IPR Case No.: 2024-00530, June 13, 2024, 34 pages.	☐
	28	Press Release, "WeatherBug and SendWorkNow Launch Smart Notification, Weather Service to Deliver Nation's First Location Based, 2-way Mobile Weather Alerts and Notifications Based on Live WeatherBug Network Data", Jun. 12, 2006, www.aws.com, 6 pgs.	☐
	29	Safety Check - Streamlining deployment around the world	☐
	30	Schneiderman, Ben, Preece, Jennifer; "911.gov", Feb. 16, 2007, Science Magazine, vol. 315, p. 944, www.sciencemag.org, 1 pg.	☐
	31	Seven Million People Used Facebook's Check-In Feature After Nepal Earthquake	☐
	32	Share your world with ((Echo))MyPlace and CarbonCloud, Jul. 15, 2007, www.thecarbonproject.com, 4 pgs.	☐
	33	SitNet v Meta Complaint and Exhibits	☐

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	34	Social network - Wikipedia, the free encyclopedia	☐
	35	Social Network Sites - Definition, History, and Scholarship	☐
	36	Social Networking, What you need to know, INConnect Spring, 2007, www.ena.com, 8 pgs.	☐
	37	Stale Cookies - ClickZ	☐
	38	SYDELL, LAURA "What are you doing? Twitter Offers a Megaphone", May 21, 2007, http://www.npr.org/templates/ story, 1 pg.	☐
	39	TAO - Facebook's Distributed Data Store for the Social Graph	☐
	40	TAO - The power of the graph - Engineering at Meta	☐
	41	The Building Collapse in Fereej Bin Durham, Doha, Qatar	☐
	42	The Evolution of Google AdWords - A $38 Billion Advertising Platform	☐
	43	The First-Ever Banner Ad on the Web	☐
	44	The Google Online Marketing Challenge - Classroom Learning with Real Clients, Real Money, and Real Advertising Campaigns_JIAD	☐

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	45	The History of Online Advertising - Adpushup	☐
	46	The Tao of Facebook - 'Social Graph' Takes New Path	☐
	47	The Wayback Machine	☐
	48	U.S. Appl. No. 16/164,715 Cona et al.	☐
	49	Unintrusive customization techniques for web advertising	☐
	50	Updated science-wide author databases of standardized citation indicators	☐

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☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

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

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Signature	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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	1	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024- 00529, June 13, 2024, 65 pages.	☐
	2	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024- 00530, June 13, 2024, 65 pages.	☐
	3	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024-00612, June 21, 2024, 65 pages.	☐
	4	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024- 00612, June 21, 2024, 11 pages.	☐
	5	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024-00528, June 21, 2024, 11 pages.	☐
	6	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024-00529, June 13, 2024, 11 pages.	☐
	7	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024-00530, June 13, 2024, 11 pages.	☐
	8	Facebook Activates Safety Check After 8 Killed in New York City Rampage	☐
	9	Facebook activates Safety Check for NYC explosion	☐
	10	Facebook Expands 'Safety Check' To Facilitate Aid In Emergencies	☐
	11	Facebook OCP 2S Server Tioga Pass Refresh	☐

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	12	Facebook Pixel Events	☐
	13	Facebook releases Safety Check crisis response tool for Workplace	☐
	14	Facebook turns Safety Check over to its users	☐
	15	Facebook Unveils Facebook Ads	☐
	16	From the original banner to Tosh.0 - The hits and misses of publisher ad plays	☐
	17	Get Started_Facebook Ads	☐
	18	Google Acquires Applied Semantics	☐
	19	Google Buys DoubleClick for $3.1 Billion - The New York Times	☐
	20	Google Timeline - The New York Times	☐
	21	Hales, David, et al, "Friends for Free: Self Organizing Artificial Social Networks for Trust and Cooperation", University of Bologna, Italy, Aug. 2005, 20 pgs.	☐
	22	Handbook for the Palm V™ Organizer	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	23	HARRISON, Jeff, "Location Based Social Networking for Crisis Management", 2006, www.thecarbonproject.com, 24 pgs.	☐
	24	How 20 years of Google's AdSense changed the internet	☐
	25	How do I mark myself safe on Facebook or ask if someone else is safe during a disaster	☐
	26	How does Facebook know I'm in an area affected by a crisis_Facebook Help Center	☐
	27	How Facebook ads use machine learning	☐
	28	How Facebook's Location Settings work	☐
	29	How is Safety Check activated on Facebook_ Facebook Help Center	☐
	30	How Mark Zuckerberg Turned Facebook Into the Web's Hottest Platform	☐
	31	How much does Workplace Core cost	☐
	32	How to choose the right Meta Ads Manager objective	☐
	33	How to create a lookalike audience on Meta Ads Manager	☐

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	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	34	HTML Images	☐
	35	HTML Images _ image tag_ alt attribute_ jpg_ png_ gif_ svg_ webp	☐
	36	Increasing Advertising Value of Mobile Marketing – An Empirical Study of Antecedents	☐
	37	Infringement of US Patent 11,470,682 by Crisis Response_Safety Check	☐
	38	Infringement of US Patent 8,249,932 by Facebook Targeted Advertising and Events	☐
	39	Infringement of US Patent 8,332,454 by Crisis Response_Safety Check	☐
	40	Infringement of US Patent 8,332,454 by Targeted Advertising and Events	☐
	41	Infringement of US Patent No. 9,877,345 by Crisis Response_Safety Check	☐
	42	Intelligent Delivery of Interactive Advertisement Content	☐
	43	Introducing Safety Check	☐
	44	Introducing the Events From Facebook App	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	45	IPR2024-00528 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	46	IPR2024-00528 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -8,249,932_IPR2024-00528 dated 07/26/2024 (7 Pages)	☐
	47	IPR2024-00529 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	48	IPR2024-00529 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -8,332,454 dated 07/26/2024 (8 Pages)	☐
	49	IPR2024-00530 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	50	IPR2024-00530 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -9,877,345 dated 07/26/2024 (9 Pages)	☐

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	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) 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

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☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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.

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United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	09/12/2024	Thomas Cona	000137-0005-129	4619

1473 7590 10/17/2024

Haley Guiliano LLP
75 Broad Street
Suite 1000
New York, NY 10004-3226

EXAMINER	
CENTRAL, DOCKET	

ART UNIT	PAPER NUMBER
OPAP	

NOTIFICATION DATE	DELIVERY MODE
10/17/2024	ELECTRONIC

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

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

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

DocketRequests@hglaw.com
HGPatentDocket@hglaw.com
haleyguiliano_PAIR@firsttofile.com

Decision Granting Request for Prioritized Examination (Track I)	**Application No.** 18/883,830	**Applicant(s)** Cona et al.	
	Examiner FIKIRTE A GEREMEW	**Art Unit** OMBL	**AIA (FITF) Status** No

1. THE REQUEST FILED 12 September 2024 IS **GRANTED** .

   The above-identified application has met the requirements for prioritized examination
   - A. ☑ for an original nonprovisional application (Track I).
   - B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination**. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:
   - A. filing a **petition for extension of time** to extend the time period for filing a reply;
   - B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims** , or a multiple dependent claim;
   - C. filing a **request for continued examination** ;
   - D. filing a notice of appeal;
   - E. filing a request for suspension of action;
   - F. mailing of a notice of allowance;
   - G. mailing of a final Office action;
   - H. completion of examination as defined in 37 CFR 41.102; or
   - I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to FIKIRTE GEREMEW at (703) 756-1930. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/FIKIRTE A GEREMEW/ PROGRAM SUPPORT SPECIALIST, OMBL	

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	2446
Examiner Name	DUSTIN NGUYEN
Attorney Docket Number	000137-0005-129

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	6438705	B1	2002-08-20	CHAO et al.	

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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	20040038671	A1	2004-02-26	TRAYFORD et al.	
	2	20040228279	A1	2004-11-18	MIDTUN et al.	
	3	20050223102	A1	2005-10-06	ZHANG et al.	
	4	20060013171	A1	2006-01-19	AHUJA et al.	
	5	20060176847	A1	2006-08-10	CHEN et al.	

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First Named Inventor	Thomas Cona
Art Unit	2446
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Attorney Docket Number	000137-0005-129

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		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

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☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

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Signature	/Maxim Rapoport/	Date (YYYY-MM-DD)	2024-12-09
Name/Print	Maxim Rapoport	Registration Number	67,675

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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)).

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/883,830	**12/09/2024 04:17:03 PM Z ET**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4619	FILED BY	Shari Jackson
PATENT CENTER #	68286642	FILING DATE	09/12/2024
CUSTOMER #	1473	FIRST NAMED INVENTOR	Thomas Cona
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Maxim Rapoport

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
000137-0005-129-SB08.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1351 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
000137-0005-129-SB08.pdf	B6338FBE4F81DFEB963EE31632EA2E7E41590D47BB88F71A0289E93A7A8ABD7B7BF93213F359083829C65A2FC0268E31DB5F83BB70A8D35C724A635A4AB38E52

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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 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.

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Notice of References Cited	Application/Control No. 18/883,830	Applicant(s)/Patent Under Reexamination Cona et al.	
	Examiner DUSTIN NGUYEN	Art Unit 2446	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9930078-B2	2018-03-27	Rajaram; Gokul	H04L65/403	1/1
*	B	US-9300492-B2	2016-03-29	Wheeler; Daniel Lowe	G06F16/176	1/1
*	C	US-8539359-B2	2013-09-17	Rapaport; Jeffrey A.	G06Q30/02	715/767
*	D	US-20170318419-A1	2017-11-02	SUTHERLAND; Allan C.	G06Q50/163	1/1
*	E	US-20160094773-A1	2016-03-31	Maciuca; Dragos B.	H04N23/62	348/207.11
*	F	US-20140091949-A1	2014-04-03	Tickoo; Omesh	H04W4/02	340/905
*	G	US-20110307803-A1	2011-12-15	Carter; Christopher Caleb	G06F16/24575	715/751
*	H	US-20110225238-A1	2011-09-15	Shaffer; Shmuel	H04W4/06	709/227
*	I	US-20110019587-A1	2011-01-27	WANG; Ray	H04L63/08	370/254
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Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	Art Unit
	DUSTIN NGUYEN	2446

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L 63/08; 65/403	12/06/2024	DN
H04W 4/02, 06	12/06/2024	DN
H04N 23/62	12/06/2024	DN
G06F 16/176, 24575	12/06/2024	DN
G06Q 30/02; 50/163	12/06/2024	DN

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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Search Notes		
Search Notes	**Date**	**Examiner**
search results from related applications (18/883820, 18/639871, 18/639859)	12/06/2024	DN
review double patenting, 101, 112 issues	12/06/2024	DN
search PE2E (social/situation event)	12/06/2024	DN
review submitted IDS	12/06/2024	DN

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	Art Unit
	DUSTIN NGUYEN	2446

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

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	Art Unit
	DUSTIN NGUYEN	2446

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

CLAIMS

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

CLAIM		DATE								
Final	Original	12/06/2024								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								

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BIB DATA SHEET

CONFIRMATION NO. 4619

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
18/883,830	09/12/2024 RULE	455	2446	000137-0005-129

APPLICANTS
SitNet LLC, Dover, DE;

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

**** CONTINUING DATA ***************************
This application is a CON of 18/639,871 04/18/2024 PAT 12120769
which is a CON of 17/902,427 09/02/2022 ABN
which is a CON of 16/730,339 12/30/2019 PAT 11470682
which is a CON of 16/207,059 11/30/2018 PAT 10524307
which is a CON of 16/164,715 10/18/2018 PAT 10375759
which is a CON of 15/638,722 06/30/2017 PAT 10117290
which is a CON of 14/861,340 09/22/2015 PAT 9877345
which is a CON of 13/612,964 09/13/2012 PAT 9143535
which is a CON of 13/274,712 10/17/2011 PAT 8332454
which is a DIV of 11/924,711 10/26/2007 PAT 8069202
which claims benefit of 60/887,843 02/02/2007

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****
09/23/2024

Foreign Priority claimed	35 USC 119(a-d) conditions met	Verified and Acknowledged	Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
☐ Yes ☑ No	☐ Yes ☑ No	/DUSTIN NGUYEN/ Examiner's Signature	☐ DN Initials	GA	45	18	2

ADDRESS
Haley Guiliano LLP
75 Broad Street
Suite 1000
New York, NY 10004-3226
UNITED STATES

TITLE
METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

FEES: Authority has been given in Paper No._____ to charge/credit DEPOSIT ACCOUNT

☐ All Fees
☐ 1.16 Fees (Filing)
☐ 1.17 Fees (Processing Ext. of time)

FILING FEE RECEIVED 0.00	No._____ for following:	❑ 1.18 Fees (Issue) ❑ Other _____ ❑ Credit

PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

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

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Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	1	IPR2024-00612 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	2	IPR2024-00612 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -8,249,932_IPR2024-00612 dated 07/26/2024 (8 Pages)	☐
	3	JACKSON, Joab, "Disaster Prediction Social Networking Boosted by Geo-Data Feeds", http://news. nationalgeographic.com; October 19, 2006, 5 pgs.	☐
	4	KIM, Ryan, "Hey Baby, want a dale?", www.sfgate.com, July 23, 2005, 3 pgs.	☐
	5	Lookalike Audiences - Meta Marketing API	☐
	6	Manage Your Ad Object's Status	☐
	7	Marketing API Reference	☐
	8	Meta Complaint FINAL 6 21 22	☐
	9	Nena Technical Requirements Document for Location Information to Support IP-Based Emergency Services, Nena 08-752 Issue 1, Dec. 21, 2006, 33 pages.	☐
	10	Network Analysis - Some Basic Principles	☐
	11	Official Events API - Facebook Pages API	☐

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Attorney Docket Number	000137-0005-129

	12	Official Google Blog - Why we're buying DoubleClick	☐
	13	ONLINE FORUMS SUPPORTING GRASSROOTS PARTICIPATION in Emergency Preparedness and Response	☐
	14	Overview - Graph API	☐
	15	Overview - Meta Marketing API	☐
	16	PETITION FOR INTER PARTES REVIEW OF CLAIMS 1-11, 22, AND 23 OF U.S. PATENT NO. 8,249,932 & Exhibits	☐
	17	PETITION FOR INTER PARTES REVIEW OF CLAIMS 12-21 OF U.S. PATENT NO. 8,249,932 & Exhibits	☐
	18	PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 11,470,682 & Exhibits	☐
	19	PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 8,332,454 & Exhibits	☐
	20	PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 9,877,345 & Exhibits	☐
	21	PGP Lets You Take Charge of Your Cookies_WIRED	☐
	22	Phillips, Brenda D. Ph.D, et al, “Social Science Research Needs: A Focus on Vulnerable Populations, Forecasting, and Warnings”, Feb. 2006, Hurricane Forecast Socio-economic Workshop, Pomona, CA, 11 pgs.	☐

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Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	23	Pop-up ads OK for Tripod - CNET	☐
	24	Post Engagement in Facebook Ads	☐
	25	Preliminary Response to Petition for Inter Partes Review filed by Meta Platforms, INC. vs. Sitnet LLC., of U.S. Patent No. 8,249,932, Under IPR Case No.: 2024-00528, June 21, 2024, 29 pages.	☐
	26	Preliminary Response to Petition for Inter Partes Review filed by Meta Platforms, INC. vs. Sitnet LLC., of U.S. Patent No. 8,332,454, Under IPR Case No.: 2024-00529, June 13, 2024, 27 pages.	☐
	27	Preliminary Response to Petition for Inter Partes Review filed by Meta Platforms, INC. vs. Sitnet LLC., of U.S. Patent No. 9,877,345, Under IPR Case No.: 2024-00530, June 13, 2024, 34 pages.	☐
	28	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", Jun. 12, 2006, www.aws.com, 6 pgs.	☐
	29	Safety Check - Streamlining deployment around the world	☐
	30	Schneiderman, Ben, Freece, Jennifer; "911.gov", Feb. 16, 2007, Science Magazine, vol. 315, p. 944, www.sciencemag.org, 1 pg.	☐
	31	Seven Million People Used Facebook's Check-In Feature After Nepal Earthquake	☐
	32	Share your world with ((Echo))MyPlace and CarbonCloud, Jul. 15, 2007, www.thecarbonproject.com, 4 pgs.	☐
	33	SitNet v Meta Complaint and Exhibits	☐

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Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	34	Social network - Wikipedia, the free encyclopedia	☐
	35	Social Network Sites - Definition, History, and Scholarship	☐
	36	Social Networking, What you need to know, INConnect Spring, 2007, www.ena.com, 8 pgs.	☐
	37	Stale Cookies - ClickZ	☐
	38	SYDELL, LAURA "What are you doing? Twitter Offers a Megaphone", May 21, 2007, http://www.npr.org/templates/ story, 1 pg.	☐
	39	TAO - Facebook's Distributed Data Store for the Social Graph	☐
	40	TAO - The power of the graph - Engineering at Meta	☐
	41	The Building Collapse in Fereej Bin Durham, Doha, Qatar	☐
	42	The Evolution of Google AdWords - A $38 Billion Advertising Platform	☐
	43	The First-Ever Banner Ad on the Web	☐
	44	The Google Online Marketing Challenge - Classroom Learning with Real Clients, Real Money, and Real Advertising Campaigns_JIAD	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	45	The History of Online Advertising - Adpushup	☐
	46	The Tao of Facebook - 'Social Graph' Takes New Path	☐
	47	The Wayback Machine	☐
/D.N/	48	U.S. Appl. No. 16/164,715 Cona et al.	☐
	49	Unintrusive customization techniques for web advertising	☐
	50	Updated science-wide author databases of standardized citation indicators	☐

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

EXAMINER SIGNATURE

Examiner Signature	/DUSTIN NGUYEN/	Date Considered	12/06/2024

*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)**

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Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) 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.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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

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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)).

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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.

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	34	(situation near4 network) AND (event SAME node SAME invit* SAME dimension*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:15 PM
L2	2	(situation near4 network) AND (event SAME node SAME invit* SAME dimension*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:22 PM
L3	4	(situation SAME event SAME node SAME invit* SAME dimension*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:24 PM
L4	7	(situation SAME event SAME node SAME invit*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2024/12/04 05:25 PM

			CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L5	72	(situation SAME event SAME node SAME join*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:26 PM
L6	45	(situation).ab. AND (event SAME node SAME join*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:28 PM
L7	11	(situation SAME proximity) AND (event SAME node SAME join*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK,	OR	ON	ON	2024/12/04 05:29 PM

			TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L8	5	(situation SAME proximity) AND (event SAME node SAME invit*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:30 PM
L9	3	(situation SAME proximity) AND (event SAME node SAME supplemental).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:35 PM
L10	5	(situation near5 network) AND (event SAME node SAME supplemental).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:36 PM
L11	29	(situation near5 network) AND (event SAME node SAME project*).clm.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2024/12/04 05:39 PM

			CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L12	50	(situation SAME proximity) AND (event SAME node SAME invit* SAME accept*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:43 PM
L13	40	(situation SAME proximity SAME event) AND (node SAME invit* SAME accept*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:46 PM
L14	66	(situation SAME proximity SAME event SAME node) AND (invit* SAME accept*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA,	OR	ON	ON	2024/12/04 05:48 PM

			VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L15	7	(proximity SAME (weather OR emergency) near5 event SAME node) AND (invit* SAME accept*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:49 PM
L16	12	(proximity SAME (weather OR emergency) near5 event SAME node) AND (invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:49 PM
L17	0	(near$by SAME (weather OR emergency) near5 event SAME node) AND (invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:50 PM
L18	127	((weather OR emergency) near5 event SAME node) AND (invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2024/12/04 05:50 PM

			EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L19	90	((weather OR emergency) near5 event SAME invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/04 05:55 PM
L20	651	((social) near5 event SAME invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/05 01:40 PM
L21	61	((social) near5 event SAME node SAME invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO;	OR	ON	ON	2024/12/05 01:40 PM

			JPO; DERWENT; IBM_TDB)				
L22	71	((social) near5 network) AND (shar* SAME event SAME node SAME invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/05 01:42 PM
L23	9	((social) near5 network) AND (proximity SAME event SAME node SAME invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/05 01:44 PM
L24	9	((social) near5 network) AND (geographic SAME event SAME node SAME invit* SAME join*)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/12/05 01:45 PM
L25	115	((social) near5 network) AND (event SAME node SAME invit* SAME join*)	(USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE,	OR	ON	ON	2024/12/05 01:45 PM

			IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

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Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	1	Doc 25 - NOTICE OF META'S MOTION TO DISMISS	☐
	2	Doc 25-1 - EXHIBIT TO FED. R. CIV. P. 12(b)(6) MOTION TO DISMISS	☐
	3	Doc 25-2 - [PROPOSED] ORDER GRANTING META'S MOTION TO DISMISS	☐
	4	Doc 26 - NOTICE OF META'S MOTION TO DISMISS	☐
	5	Doc 26-1 - [PROPOSED] ORDER GRANTING META'S MOTION TO DISMISS	☐
	6	Doc 27 - MEMORANDUM OF LAW IN SUPPORT OF META'S MOTION TO DISMISS	☐
	7	Doc 28 - DECLARATION OF DANA M. SESHENS IN SUPPORT OF META'S MOTION TO DISMISS	☐
	8	Doc 28-1 - EXHIBIT TO FED. R. CIV. P. 12(b)(6) MOTION TO DISMISS	☐
	9	Doc 28-2 - MEMORANDUM OF LAW IN SUPPORT OF META'S MOTION TO DISMISS	☐
	10	Doc 28-3 - EXHIBIT TO FED. R. CIV. P. 12(b)(6) MOTION TO DISMISS	☐
	11	Doc 40 - PLAINTIFF'S MEMORANDUM OF LAW IN OPPOSITION TO DEFENDANT'S MOTION TO DISMISS	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	12	Doc 40-1 - Appendix A - Comparison with Patent Ineligible Claims	☐
	13	Doc 40-2 - Appendix B - Comparison with Patent Eligible Claims	☐
	14	Doc 40-3 - Appendix C - Responsive Rule 8.G.i Chart	☐
	15	Doc 41 - REPLY IN SUPPORT OF META'S MOTION TO DISMISS	☐
	16	Doc 41-1 - Exhibit A - Claim Comparison Chart	☐
	17	Doc 51 - Opinion and Order	☐
	18	Doc 56 - META'S ANSWER TO PLAINTIFF'S COMPLAINT	☐
	19	Doc 57 - JOINT CLAIM CONSTRUCTION BRIEF	☐
	20	Doc 57-1 - JOINT APPENDIX TO THE JOINT CLAIM CONSTRUCTION BRIEF	☐
	21	Doc 57-10 - Exhibit 9 Internet Dictionary	☐
	22	Doc 57-11 - Exhibit 10 The Facts on File Dictionary of Computer Science	☐

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Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	23	Doc 57-12 DECLARATION OF KATHRYN BI IN SUPPORT OF META'S RESPONSIVE CLAIM CONSTRUCTION BRIEF	☐
	24	Doc 57-3 - Exhibit 2 Dictionary of Computing_Pountain	☐
	25	Doc 57-4 - Exhibit 3 Merriam-Webster's Collegiate Dictionary	☐
	26	Doc 57-5 - Exhibit 4 Dictionary of Computing_Collin	☐
	27	Doc 57-6 - Exhibit 5 US8249932B1 Prosecution History	☐
	28	Doc 57-8 - Exhibit 7 Computer Jargon_Martin	☐
	29	Doc 57-9 - Exhibit 8 Newton's Telecom Dictionary	☐
	30	Doc 58 - AMENDED JOINT CLAIM CONSTRUCTION CHART	☐
	31	Doc 79 - OPINION AND ORDER; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 79 - OPINION AND ORDER dated 07/16/2024 (10 Pages)	☐
	32	Doc 80 - Letter Motion for Discovery Protective Order; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80 - Letter Motion for Discovery Protective Order dated 07/17/2024 (74 Pages)	☐
	33	Doc 80-1 Exhibit A - SitNet 30b6 Notice; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-1 Exhibit A - SitNet 30b6 Notice dated 07/17/2024 (15 Pages)	☐

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Attorney Docket Number	000137-0005-129

	34	Doc 80-10 Exhibit J - April 19 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-10 Exhibit J - April 19 2024 Email Thread dated 07/17/2024 (8 Pages)	☐
	35	Doc 80-2 Exhibit B - Meta Response to SitNet 30b6 Notice; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-2 Exhibit B - Meta Response to SitNet 30b6 Notice dated 07/17/2024 (4 Pages)	☐
	36	Doc 80-3 Exhibit C - July 8 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-3 Exhibit C - July 8 2024 Email Thread dated 07/17/2024 (16 Pages)	☐
	37	Doc 80-4 Exhibit D - May 30 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-4 Exhibit D - May 30 2024 Email Thread dated 07/17/2024 (4 Pages)	☐
	38	Doc 80-5 Exhibit E - June 4 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-5 Exhibit E - June 4 2024 Email Thread dated 07/17/2024 (5 Pages)	☐
	39	Doc 80-6 Exhibit F - June 24 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-6 Exhibit F - June 24 2024 Email Thread dated 07/17/2024 (5 Pages)	☐
	40	Doc 80-7 Exhibit G - Excerpt of Markman Hearing Transcript; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-7 Exhibit G - Excerpt of Markman Hearing Transcript dated 07/17/2024 (7 Pages)	☐
	41	Doc 80-8 Exhibit H - July 12 2024 Email Thread; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-8 Exhibit H - July 12 2024 Email Thread dated 07/17/2024 (3 Pages)	☐
	42	Doc 80-9 Exhibit I - 20240309 MET_Letter re Discovery Requests; SDNY-1-23-cv-06389 Meta Platforms, Inc. v. SitNet LLC, Doc 80-9 Exhibit I - 20240309 MET_Letter re Discovery Requests dated 07/17/2024 (4 Pages)	☐
	43	Doc 97 - AMENDED CIVIL CASE MANAGEMENT PLAN AND SCHEDULING ORDER, Aug 05, 2024	☐
	44	Doc 98 - NOTICE OF META'S MOTION FOR SUMMARY JUDGMENT, Jul 31, 2024	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

	45	Doc 99 - META'S STATEMENT OF MATERIAL FACTS IN SUPPORT OF ITS MOTION FOR SUMMARY JUDGMENT	☐
	46	Edit information on your Facebook profile and choose who can see it	☐
	47	Engagement Custom Audiences - Meta Marketing API	☐
	48	Estimating the Capacity of the Location–Based Advertising Channel	☐
	49	Event and Local Ads - Meta Marketing API	☐
	50	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024- 00528, June 21, 2024, 65 pages.	☐

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EXAMINER SIGNATURE

Examiner Signature	/DUSTIN NGUYEN/	Date Considered	12/06/2024

*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	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

CERTIFICATION STATEMENT

Please see 37 CFR 1.97(e) 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.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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 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.

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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.

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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.

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	1							☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	1	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024- 00529, June 13, 2024, 65 pages.	☐
	2	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024- 00530, June 13, 2024, 65 pages.	☐
	3	Exhibit 2001- Joint Claim Construction Brief filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under, IPR024-00612, June 21, 2024, 65 pages.	☐
	4	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024- 00612, June 21, 2024, 11 pages.	☐
	5	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024-00528, June 21, 2024, 11 pages.	☐
	6	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024-00529, June 13, 2024, 11 pages.	☐
	7	Exhibit 2002- Amended Joint Claim Construction Chart filed by Sitnet LLC vs. Meta Platforms, INC., Civil Action No. 1:23-cv-06389-AS, Under IPR2024-00530, June 13, 2024, 11 pages.	☐
	8	Facebook Activates Safety Check After 8 Killed in New York City Rampage	☐
	9	Facebook activates Safety Check for NYC explosion	☐
	10	Facebook Expands 'Safety Check' To Facilitate Aid In Emergencies	☐
	11	Facebook OCP 2S Server Tioga Pass Refresh	☐

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	12	Facebook Pixel Events	☐
	13	Facebook releases Safety Check crisis response tool for Workplace	☐
	14	Facebook turns Safety Check over to its users	☐
	15	Facebook Unveils Facebook Ads	☐
	16	From the original banner to Tosh.0 - The hits and misses of publisher ad plays	☐
	17	Get Started_Facebook Ads	☐
	18	Google Acquires Applied Semantics	☐
	19	Google Buys DoubleClick for $3.1 Billion - The New York Times	☐
	20	Google Timeline - The New York Times	☐
	21	Hales, David, et al, "Friends for Free: Self Organizing Artificial Social Networks for Trust and Cooperation", University of Bologna, Italy, Aug. 2005, 20 pgs.	☐
	22	Handbook for the Palm V™ Organizer	☐

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	23	HARRISON, Jeff, "Location Based Social Networking for Crisis Management", 2006, www.thecarbonproject.com, 24 pgs.	☐
	24	How 20 years of Google's AdSense changed the internet	☐
	25	How do I mark myself safe on Facebook or ask if someone else is safe during a disaster	☐
	26	How does Facebook know I'm in an area affected by a crisis_Facebook Help Center	☐
	27	How Facebook ads use machine learning	☐
	28	How Facebook's Location Settings work	☐
	29	How is Safety Check activated on Facebook_ Facebook Help Center	☐
	30	How Mark Zuckerberg Turned Facebook Into the Web's Hottest Platform	☐
	31	How much does Workplace Core cost	☐
	32	How to choose the right Meta Ads Manager objective	☐
	33	How to create a lookalike audience on Meta Ads Manager	☐

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Examiner Name	
Attorney Docket Number	000137-0005-129

	34	HTML Images	☐
	35	HTML Images _ image tag_ alt attribute_ jpg_ png_ gif_ svg_ webp	☐
	36	Increasing Advertising Value of Mobile Marketing – An Empirical Study of Antecedents	☐
	37	Infringement of US Patent 11,470,682 by Crisis Response_Safety Check	☐
	38	Infringement of US Patent 8,249,932 by Facebook Targeted Advertising and Events	☐
	39	Infringement of US Patent 8,332,454 by Crisis Response_Safety Check	☐
	40	Infringement of US Patent 8,332,454 by Targeted Advertising and Events	☐
	41	Infringement of US Patent No. 9,877,345 by Crisis Response_Safety Check	☐
	42	Intelligent Delivery of Interactive Advertisement Content	☐
	43	Introducing Safety Check	☐
	44	Introducing the Events From Facebook App	☐

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	First Named Inventor	Thomas Cona
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	Examiner Name	
	Attorney Docket Number	000137-0005-129

	45	IPR2024-00528 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	46	IPR2024-00528 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -8,249,932_IPR2024-00528 dated 07/26/2024 (7 Pages)	☐
	47	IPR2024-00529 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	48	IPR2024-00529 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -8,332,454 dated 07/26/2024 (8 Pages)	☐
	49	IPR2024-00530 Meta Platforms, Inc. v. SitNet LLC, "Markman Hearing Transcript" dated 07/26/2024 (75 pages)	☐
	50	IPR2024-00530 Meta Platforms, Inc. v. SitNet LLC, SITNET LLC'S SUR-REPLY TO PETITIONER'S REPLY -9,877,345 dated 07/26/2024 (9 Pages)	☐

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Examiner Signature	/DUSTIN NGUYEN/	Date Considered	12/06/2024

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First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

CERTIFICATION STATEMENT

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

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☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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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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.

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(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

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First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	1	View insights about reactions to your ad	☐
	2	WAP (Wireless Application Protocol) - Tech-FAQ	☐
	3	Web Pages, Send Word Now; http://www.sendwordnow.com, Jul. 19, 2007, 11 pgs.	☐
	4	What are Call-to-Action Buttons in Meta Ads Manager	☐
	5	What are GPS coordinates and how do they work?	☐
	6	What are some things I can do to stay safe on Facebook when requesting and offering help in Crisis Response_Facebook Help Center	☐
	7	What is a Facebook Pixel_Meta's tracking tool, explained	☐
	8	What is a Web Browser - Definition from Techopedia	☐
	9	What is an ad server	☐
	10	Ziv et al., "An Exploration on Mobile Social Networking: Dodgeball as a Case in Point", Department of Management Polytechnic University IEEE Conference Proceedings, MBusiness Conference, Jun. 26, 2006, 1-7 pgs.	☐

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Name/Print	Maxim Rapoport	Registration Number	67,675

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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
	1	5774670	A	1998-06-30	MONTULLI LOU	
	2	5835907	A	1998-11-10	NEWMAN BRIAN	
	3	6028514	A	2000-02-22	LEMELSON et al.	
	4	6091956	A	2000-07-18	HOLLENBERG DENNIS D	
	5	6112074	A	2000-08-29	PINDER ELLIS ARTHUR	
	6	6295001	B1	2001-09-25	BARBER JERRY KEITH	
	7	6424840	B1	2002-07-23	FITCH et al.	
	8	6542750	B2	2003-04-01	HENDREY et al.	

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

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	Attorney Docket Number	000137-0005-129

	9	6563910	B2	2003-05-13	MENARD et al.	
	10	6594355	B1	2003-07-15	DEO et al.	
	11	6600928	B1	2003-07-29	AHYA et al.	
	12	6785681	B2	2004-08-31	KESKAR et al.	
	13	6788766	B2	2004-09-07	LOGAN JAMES D	
	14	6826472	B1	2004-11-30	KAMEI et al.	
	15	6947754	B2	2005-09-20	OGASAWARA KOICHI	
	16	6970871	B1	2005-11-29	RAYBURN TERRY	
	17	7016307	B2	2006-03-21	VASUDEV et al.	
	18	7026925	B2	2006-04-11	ROCHE et al.	
	19	7027055	B2	2006-04-11	ANDERSON et al.	

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	20	7058385	B2	2006-06-06	LAUPER ERIC	
	21	7084775	B1	2006-08-01	SMITH MICHAEL R	
	22	7085818	B2	2006-08-01	BROWN et al.	
	23	7091829	B2	2006-08-15	LEE HONG-KYU	
	24	7139722	B2	2006-11-21	PERRELLA et al.	
	25	7151939	B2	2006-12-19	SHEYNBLAT LEONID	
	26	7177398	B2	2007-02-13	MEER et al.	
	27	7181346	B1	2007-02-20	KLEIST et al.	
	28	7194249	B2	2007-03-20	PHILLIPS et al.	
	29	7221928	B2	2007-05-22	LAIRD et al.	
	30	7231220	B2	2007-06-12	REDDY et al.	

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	31	7233974	B2	2007-06-19	KAWAHARA et al.	
	32	7239871	B2	2007-07-03	SHAMP et al.	
	33	7242948	B2	2007-07-10	FLEISCHER et al.	
	34	7245925	B2	2007-07-17	ZELLNER SAMUEL N	
	35	7254607	B2	2007-08-07	HUBBARD et al.	
	36	7263614	B2	2007-08-28	Roskind James A.	
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	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	43	7523191	B1	2009-04-21	THOMAS et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Filing Date	2024-09-12
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	Art Unit	
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	Attorney Docket Number	000137-0005-129

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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
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	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
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	Application Number	18883830
	Filing Date	2024-09-12
	First Named Inventor	Thomas Cona
	Art Unit	
	Examiner Name	
	Attorney Docket Number	000137-0005-129

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(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
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Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

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	1	“Notifyl/Severe Weather Alerts” Web Pages; www.weather.com, Jul. 12, 2007, 5 pgs.	☐
	2	A Brief History of Online Advertising	☐
	3	A New Center for Crisis Response on Facebook	☐
	4	A Systematic Review on Search Engine Advertising	☐
	5	About engagement custom audiences	☐
	6	Ad Campaign Structure - Meta Marketing API	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	7	Ad server definition_Adjust	☐
	8	Ad Targeting - Options to Reach Your Audience Online	☐
	9	An Advertising Power, but Just What Does Double Click Do	☐
	10	Apr 8th - Scranton Comedy Club Show w Headliner JOHNNY WATSON	☐
	11	Audience_Facebook Ads	☐
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	13	Best Practices for Optimizing Web Advertising Effectiveness	☐
	14	Best practices to advertise your event to your preferred audience	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	18	Create an ad set in Meta Ads Manager	☐
	19	Crisis Response_Facebook Help Center	☐
	20	Crisis Response_The Silverado Fire in Orange County, California, USA	☐
	21	Crisis Response_The Simpson Road Fire in Logan County, Oklahoma, US	☐
	22	Dane County Department of Emergency Management Warning System, Oct. 23, 2006, www.countyofDane.com, 10 pgs.	☐
	23	DECLARATION OF BERNARD J. JANSEN, PH.D., IN SUPPORT OF PETITION FOR INTER PARTES REVIEW OF CLAIMS 1-11, 22, AND 23 OF U.S. PATENT NO, 8,249,932	☐
	24	DECLARATION OF BERNARD J. JANSEN, PH.D., IN SUPPORT OF PETITION FOR INTER PARTES REVIEW OF CLAIMS 12-21 OF U.S. PATENT NO, 8,249,932	☐
	25	DECLARATION OF DR. JEREMY COOPERSTOCK IN SUPPORT OF PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 11,470,682	☐
	26	DECLARATION OF DR. JEREMY COOPERSTOCK IN SUPPORT OF PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 8,332,454	☐
	27	DECLARATION OF DR. JEREMY COOPERSTOCK IN SUPPORT OF PETITION FOR INTER PARTES REVIEW OF U.S. PATENT NO. 9,877,345	☐
	28	Detecting Hit Shaving in Click-Through Payment Schemes	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	29	Doc 100 - LETTER MOTION to Seal addressed to Judge Arun Subramania, Jul 31, 2024	☐
	30	Doc 102 - MEMORANDUM OF LAW IN SUPPORT OF META'S MOTION FOR SUMMARY JUDGMENT, Jul 31, 2024	☐
	31	Doc 104 - DECLARATION OF KATHRYN BI IN SUPPORT OF META'S MOTION FOR SUMMARY JUDGMENT, Jul 31, 2024	☐
	32	Doc 104 - Exhibit A - U.S. Patent No. 8,332,454, Jul 31, 2024	☐
	33	Doc 104 - Exhibit B - U.S. Patent No. 8,249,932, Jul 31, 2024	☐
	34	Doc 104 - Exhibit C - U.S. Patent No. 9,877,345, Jul 31, 2024	☐
	35	Doc 104 - Exhibit D - Redacted Eldering Tr, Jul 31, 2024	☐
	36	Doc 104 - Exhibit E - Submitted Under Seal (Igoe PIIA), Jul 31, 2024	☐
	37	Doc 104 - Exhibit F - Redacted Kravets PIIA, Jul 31, 2024	☐
	38	Doc 104 - Exhibit G - Submitted Under Seal (Kravets Employment Letter), Jul 31, 2024	☐
	39	Doc 104 - Exhibit H - Redacted Igoe Tr, Jul 31, 2024	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

	40	Doc 104 - Exhibit I - Redacted Kravets Tr, Jul 31, 2024	☐
	41	Doc 104 - Exhibit J - 932 Patent (Inventors to RCL), Jul 31, 2024	☐
	42	Doc 104 - Exhibit K - 454 Patent (Inventors to RCL), Jul 31, 2024	☐
	43	Doc 104 - Exhibit L - 345 Patent (Inventors to RCL), Jul 31, 2024	☐
	44	Doc 104 - Exhibit M - Patents-in-Suit (RCL to RCL LLC), Jul 31, 2024	☐
	45	Doc 104 - Exhibit N - Patents-in-Suit (RCL LLC to SitNet), Jul 31, 2024	☐
	46	Doc 104 - Exhibit O - Excerpt of SitNet's Dec 17, 2023 Inf Contentions, Jul 31, 2024	☐
	47	Doc 104 - Exhibit P - Submitted Under Seal (TPL-Maglia Agmt), Jul 31, 2024	☐
	48	Doc 104 - Exhibit Q - TPL-Maglia Bill of Sale, Jul 31, 2024	☐
	49	Doc 104 - Exhibit R - SitNet's R&O to RFP 9, Jul 31, 2024	☐
	50	Doc 105 - ORDER granting 100 Letter Motion to Seal, Jul 31, 2024	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

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Examiner Signature	/DUSTIN NGUYEN/	Date Considered	12/06/2024

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Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	
Examiner Name	
Attorney Docket Number	000137-0005-129

CERTIFICATION STATEMENT

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

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

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

☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

FEE

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

COPIES

☒ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim A. Rapoport/	Date (YYYY-MM-DD)	2024-10-11
Name/Print	Maxim Rapoport	Registration Number	67,675

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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.

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United States Patent and Trademark Office
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	09/12/2024	Thomas Cona	000137-0005-129	4619

1473 7590 12/11/2024

Haley Guiliano LLP
75 Broad Street
Suite 1000
New York, NY 10004-3226

EXAMINER	
NGUYEN, DUSTIN	

ART UNIT	PAPER NUMBER
2446	

NOTIFICATION DATE	DELIVERY MODE
12/11/2024	ELECTRONIC

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

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

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

HGPatentDocket@hglaw.com

Office Action Summary	Application No. 18/883,830	Applicant(s) Cona et al.	
	Examiner DUSTIN NGUYEN	Art Unit 2446	AIA (FITF) Status No

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 09/12/2024.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

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

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 2-19 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 2-19 is/are rejected.

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

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

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

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

11)☑ The drawing(s) filed on 09/12/2024 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 10/11/24.

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

4) ☐ Other: _____.

DETAILED ACTION

1. Claims 2-19 are presented for consideration.

Specification

2. Examiner requests Applicants to update status of related application as mentioned in specification, paragraph 0001.

Double Patenting

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

686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP § 2146 *et seq.* for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The filing of a terminal disclaimer by itself is not a complete reply to a nonstatutory double patenting (NSDP) rejection. A complete reply requires that the terminal disclaimer be accompanied by a reply requesting reconsideration of the prior Office action. Even where the NSDP rejection is provisional the reply must be complete. See MPEP § 804, subsection I.B.1. For a reply to a non-final Office action, see 37 CFR 1.111(a). For a reply to final Office action, see 37 CFR 1.113(c). A request for reconsideration while not provided for in 37 CFR 1.113(c) may be filed after final for consideration. See MPEP §§ 706.07(e) and 714.13.

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The actual filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25,

PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/apply/applying-online/eterminal-disclaimer.

3. Claims 2-19 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-30 of U.S. Patent No. 12,120,769 [hereisafteras '769 patent], claims 1-18 of U.S. Patent No. 8,069,202 [hereisafteras '202 patent], claims 1-20 of U.S. Patent No. 8,332,454 [hereisafteras '454 patent], and claims 1-10 of U.S. Patent No. 7,711,475 [hereisafteras '475 patent]. Although the claims at issue are not identical, they are not patentably distinct from each other because the claims of the patents anticipate the claims of the current application.

4. Claims 2-19 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 2-13 of copending Application No. 18/883,820 (reference application). Although the claims at issue are not identical, they are not patentably distinct from each other because the claims of '820 application anticipate the claims of the current application..

This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rapaport et al. [US Patent No 8,539,359] discloses social network driven indexing for instantly clustering people with concurrent focus on same topic

Sutherland [US Patent Application No 2017/0318419] discloses notification and communication system using geofencing to identify members of a community

Wang [US Patent Application No 2011/0019587 [discloses dynamic information exchange on location aware mesh network devices

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 Monday-Friday 9-6 PST.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Gillis can be reached on 571-2727952. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is

available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DUSTIN NGUYEN/
Primary Examiner, Art Unit 2446

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A PRIOR PATENT

APPLICATION #	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET #
18883830	**09/12/2024**	**Thomas Cona**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

- ☑ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action
- ☑ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent interest
Sitnet LLC	100%
Total	**100%**

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

Application #	Filing Date

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.
In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

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

Patent #
12120769
8069202
8332454
7711475

as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.
In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:

- expires for failure to pay a maintenance fee;
- is held unenforceable;
- is found invalid by a court of competent jurisdiction;
- is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
- has all claims canceled by a reexamination certificate;
- is reissued; or
- is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.



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

Applicant claims the following entity status:
Regular Undiscounted

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

I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Signature	Name	Registration #
/Maxim Rapoport/	Maxim Rapoport	67675

---

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

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/883,830	**12/13/2024 02:53:38 PM Z ET**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4619	FILED BY	Shari Jackson
PATENT CENTER #	68362774	FILING DATE	09/12/2024
CUSTOMER #	1473	FIRST NAMED INVENTOR	Thomas Cona
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Maxim Rapoport

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-request.pdf	3	Terminal Disclaimer-Filed (Electronic)	45 KB
grantLetter.pdf	1	Terminal Disclaimer-Electronic-Approved	18 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-request.pdf	B12D13639AC88830B95AFDCE41398E25AD2036130760BD065 85D7ECB617FA4E044C9C92253FB151A55B5853C3523DDA8C 07EA21ADDC283DEE879C1B8FF377B86
grantLetter.pdf	C8921B888F926698884547CBBD2515344195CCDD0B038E3DE

A2329134D60E0AE690D74C84693595FC59BA9D96D75A1A4E1
F6C5453E8EEC9EDE70EEAB962D5984

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 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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PATENT AND TRADEMARK OFFICE

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/883,830	**12/13/2024 02:53:38 PM Z ET**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4619	FILED BY	Shari Jackson
PATENT CENTER #	68362774	AUTHORIZED BY	Maxim Rapoport
CUSTOMER #	1473	FILING DATE	09/12/2024
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Thomas Cona

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
DA / 061075	**E2024BCE54008945**	**Maxim Rapoport**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
061075	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
1814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	1	170.00
			TOTAL AMOUNT:	**$170.00**

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.

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Commissioner for Patents
United States Patent and Trademark Office
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APPROVAL LETTER

APPLICATION #	FILING DATE	APPLICANT/PATENT UNDER REEXAMINATION
18/883,830	09/12/2024	Thomas Cona

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Electronic terminal disclaimer filed on 12/13/2024

☑ Approved

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved

Docket No.: 000137-0005-129

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	SitNet LLC	
Inventors	:	Thomas Cona et al.	
Application No.	:	18/883,830	Confirmation No.: 4619
Filed	:	September 12, 2024	
For	:	METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK	
Group Art Unit	:	2446	
Examiner	:	Dustin Nguyen	

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

REPLY TO OFFICE ACTION

Madam:

In response to the Office Action dated December 11, 2024, Applicant respectfully requests reconsideration in view of the following remarks:

Amendments to the Specification begin on page 2 of this paper.

Remarks begin on page 3 of this Reply.

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0001] with the following amended paragraph:

[0001] This application is a continuation of 18/639,871, (now U.S. Patent No. 12,120,769), filed April 18, 2024, and entitled *Method And System For Using A Situational Network,* which is a continuation of 17/902,427 (now abandoned), filed September 2, 2022, and entitled *Method And System For Using A Situational Network,* which is a continuation of 16/730,339 (now U.S. Patent No. 11,470,682), filed December 30, 2019, and entitled *Method And System For Using A Situational Network,* which is a continuation of 16/207,059 (now U.S. Patent No. 10,524,307), filed November 30, 2018, and entitled *Method And System For Using A Situational Network,* which is a continuation of 16/164,715 (now U.S. Patent No. 10,375,759), filed October 18, 2018, and entitled *Method and System for Using a Situational Network*, which is a continuation of 15/638,722 (now U.S. Patent No. 10,117,290), filed June 30, 2017, and entitled *Method and System for Using a Situational Network*, which is a continuation of 14/861,340 (now U.S. Patent No. 9,877,345), filed September 22, 2015, and entitled *Method and System for Using a Situational Network*, which is a continuation of 13/612,964 (now U.S. Patent No. 9,143,535), filed September 13, 2012, and entitled *Method and System for Using a Situational Network*, which is a continuation of U.S. Patent Application No. 13/274,712 (now U.S. Patent No. 8,332,454), filed October 17, 2011, and entitled *Creating a Projection of a Situational Network,* which is a divisional of U.S. Patent Application No. 11/924,711 (now U.S. Patent No. 8,069,202), filed October 26, 2007, and entitled *Creating a Projection of a Situational Network*, which claims the benefit of U.S. Provisional Patent Application No. 60/887,843, filed February 2, 2007, entitled *Situational Network*. The entire disclosure of each of these applications is incorporated herein by reference.

REMARKS

Introduction

Applicant has amended the specification to update the priority claim. Claims 2-19 were pending in this application. Claims 2-19 were rejected under judicially created doctrine of Double Patenting over claims of U.S. Patents Nos. 12,120,769, 8,069,202, 8,332,454, and 7,711,475.

Applicant's Reply to Double Patenting Rejection

Applicant concurrently with filing submits terminal disclaimers over of U.S. Patents Nos. 12,120,769, 8,069,202, 8,332,454, and 7,711,475. Accordingly, these double patenting rejections are now moot.

Applicant's Reply to Objection to Specification

The office action requested an update to para. [0001] to correct stats of related applications. Para. [0001] has been updated to indicated that Application No. 18/639/871 has now issued as U.S. patent No. 12,120,769. Application requests withdrawal of the objection.

Conclusion

In view of at least the foregoing, Applicant respectfully submits that the pending application is in condition for allowance. Reconsideration and prompt allowance are accordingly respectfully requested.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 06-1075, from which the undersigned is authorized to draw.

Respectfully submitted,

Dated: December 13, 2024

By: /Maxim Rapoport/
Maxim Rapoport
Registration No.: 67675
HALEY GUILIANO LLP
Customer No. 01473
75 Broad Street, Suite 1000
New York, New York 10004
(646) 973-2500
Attorney for Applicant

UNITED STATES
PATENT AND TRADEMARK OFFICE

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/883,830	**12/13/2024 03:03:14 PM Z ET**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4619	FILED BY	Shari Jackson
PATENT CENTER #	68366213	FILING DATE	09/12/2024
CUSTOMER #	1473	FIRST NAMED INVENTOR	Thomas Cona
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Maxim Rapoport

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
000137-0005-129-Reply.pdf		3	-	146 KB
000137-0005-129-Reply-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	103 KB
000137-0005-129-Reply-SPEC.pdf	(2-2)	1	Specification	140 KB
000137-0005-129-Reply-REM.pdf	(3-3)	1	Applicant Arguments/Remarks Made in an Amendment	104 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

000137-0005-129-Reply.pdf	36C420C8A0A469C77C4CFF9DE2D9B4D3AFDFE37F4AC0CE4 47FE60E495A75C04DC626EC61442FE85292BCF264D5B4B0E7 4F11953B9D76691101AFA4073303FF99
000137-0005-129-Reply-A....pdf	1301BAF178A3863F10ED9B79501EC3D0F60DAD643A18590B1 BCA6FB60521D2D14E7ED973B9D7EACBBEFA8F4A19FC89B1 5C7CDA7FA7ABB177F2215D073C202BA3
000137-0005-129-Reply-SPEC.pdf	47F87F83D77B800CCD90A02DBF5BD0C2D0BA26BFE657F5C7 7212B86B9EC9A99D6E8280EADB1BD9A89972FD270F0493A35 86452257F2B52B74BED133CCF450F3E
000137-0005-129-Reply-REM.pdf	7180476A710BB717EBA2A552BEA769AB0D2DD21CA26BFBB1 A7ADCF0835FAC4D3CD24F0F61FE1D8107BDBB1CC9D34C3C DB485E3C5746379B3A616DC3B7EC8F55C

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 filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

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

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

New International Application Filed with the USPTO as a Receiving Office

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

UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/883,830	09/12/2024	Thomas Cona	000137-0005-129

CONFIRMATION NO. 4619

1473
Haley Guiliano LLP
75 Broad Street
Suite 1000
New York, NY 10004-3226

PUBLICATION NOTICE

OC000000082597162

Date Mailed: 01/03/2025

Title:METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Publication No.US-2025-0008609-A1
Publication Date:01/02/2025

NOTICE OF PUBLICATION OF APPLICATION

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

The publication may be viewed using the USPTO's publicly available Searchable Databases via the Patent Public Search tool at www.uspto.gov. The direct link to access the Patent Public Search tool is currently https://ppubs.uspto.gov/pubwebapp/static/pages/ppubsbasic.html.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through Patent Center, the USPTO's electronic patent application filing and management system. The direct link to access this status information is currently https://patentcenter.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of Patent Center.

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

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

United States Patent and Trademark Office

Office of the Commissioner for Patents

Dear Applicant,

You recently received an Office action from your examiner. Review of your patent application is under way! You can continue to advertise or mark any products covered by your application for your invention as "Patent Pending" for as long as this application is pending. This letter provides information about how to continue through the patent application process and the help available to you on your journey.

Where are you in the patent application process? Your patent application is now in step 3, Application Prosecution (www.uspto.gov/UtilityPatentGuide.) Though the Office action includes a "rejection," that does not mean that you don't have a good idea you can patent. It means your examiner believes your application is not yet ready for allowance.

Ready to respond? Responding to the Office action is your opportunity to address the issues raised by your examiner. Responses must be timely, complete, and in writing. In your response, you may want to consider amending your application (www.uspto.gov/patents/maintain/responding-office-actions).

We provide Pro Se Assistance, support specifically geared for independent inventors without an agent or attorney. Visit www.uspto.gov/ProSePatents for a consolidated list of resources, including a sample amendment format. Full description of amendment formatting can be found at www.uspto.gov/web/offices/pac/mpep/s714.html. Call us at 866-767-3848, or email proseassistancecenter@uspto.gov.

Have questions about the Office action? Contact your examiner! A conversation with your examiner (called an "interview") may help clarify and resolve any issues and possibly identify what you can patent. While an interview does not stop the clock for your official response or substitute for a response, there is no fee for an interview. To schedule a call or video, you can:

1. use the USPTO's Automated Interview Request (AIR) form (www.uspto.gov/patents/uspto-automated-interview-request-air-form);
2. file the Applicant Initiated Interview Request form (PTOL-413A) (www.uspto.gov/sites/default/files/documents/PTOL413A.pdf); or
3. contact your examiner directly via telephone (contact information is provided at the end of your Office action).

Need help near you? We have regional offices across the country (www.uspto.gov/locations), as well as Patent and Trademark Resource Centers in libraries in nearly every state (www.uspto.gov/ptrc), with specialists standing by to help you at no cost.

Become a *registered* electronic filer (registered eFiler). As a registered eFiler, you can electronically view your submission, track progress of your application, and respond to USPTO correspondence. (www.uspto.gov/NewPatentFilers)

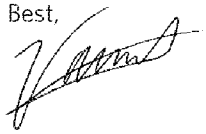
Contact us

- General information: USPTO Contact Center — 800-786-9199 • TTY/TDD 800-877-8339 • www.uspto.gov/help
- Patent Center: Patent Electronic Business Center www.uspto.gov/EBC
- Inventors Assistance Center www.uspto.gov/inventorassistance

Want to learn more?

- Hear about resources for startups, inventors, and entrepreneurs, as well as our initiatives engaging women, the military community, and others. These programs offer helpful tips and tricks on identifying and managing your IP, finding options for funding, and expanding your network to support your business.
  - www.uspto.gov/startups
  - www.uspto.gov/inventors
  - www.uspto.gov/initiatives
- Access our free services all in one spot. Find all of our contact centers, nationwide services, events, education and training. (www.uspto.gov/FreeServices)
- Connect with us on Instagram, LinkedIn, Twitter, Facebook, and YouTube.
- Hear about the great things we are doing by subscribing at www.uspto.gov/subscribe.

Best,



Vaishali Udupa
Commissioner for Patents
United States Patent and Trademark Office

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

1473 7590 01/17/2025

Haley Guiliano LLP
75 Broad Street
Suite 510
New York, NY 10004-3222

EXAMINER	
NGUYEN, DUSTIN	
ART UNIT	PAPER NUMBER
2446	

DATE MAILED: 01/17/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	09/12/2024	Thomas Cona	000137-0005-129	4619

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

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	04/17/2025

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

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

HOW TO REPLY TO THIS NOTICE:

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

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

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

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

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

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

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence 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. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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

1473 7590 01/17/2025

Haley Guiliano LLP
75 Broad Street
Suite 510
New York, NY 10004-3222

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

Certificate of Mailing or Transmission

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

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	09/12/2024	Thomas Cona	000137-0005-129	4619

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

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	04/17/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, DUSTIN	2446	455-404100

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/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or 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 must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

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

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

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

❑ Electronic Payment via the USPTO patent electronic filing system ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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

❑ Applicant certifying micro entity status. See 37 CFR 1.29

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

❑ Applicant asserting small entity status. See 37 CFR 1.27

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

❑ Applicant changing to regular undiscounted fee status.

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

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

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	09/12/2024	Thomas Cona	000137-0005-129	4619

1473 7590 01/17/2025

Haley Guiliano LLP
75 Broad Street
Suite 510
New York, NY 10004-3222

EXAMINER	
NGUYEN, DUSTIN	
ART UNIT	PAPER NUMBER
2446	

DATE MAILED: 01/17/2025

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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

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

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) 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));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/883,830	Applicant(s) Cona et al.	
	Examiner DUSTIN NGUYEN	Art Unit 2446	AIA (FITF) Status No

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

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

1. ☑ This communication is responsive to 12/13/2024.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are See Continuation Sheet . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

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

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

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 12/09/2024.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/DUSTIN NGUYEN/
Primary Examiner, Art Unit 2446

Continuation of 3. The allowed claim(s) is/are: 2-19, now renumbered as 1-18

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	Art Unit
	DUSTIN NGUYEN	2446

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

CLAIMS

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

CLAIM		DATE								
Final	Original	12/06/2024	01/09/2025							
1	2	✓	=							
2	3	✓	=							
3	4	✓	=							
4	5	✓	=							
5	6	✓	=							
6	7	✓	=							
7	8	✓	=							
8	9	✓	=							
9	10	✓	=							
10	11	✓	=							
11	12	✓	=							
12	13	✓	=							
13	14	✓	=							
14	15	✓	=							
15	16	✓	=							
16	17	✓	=							
17	18	✓	=							
18	19	✓	=							

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	**Art Unit**
	DUSTIN NGUYEN	2446

CPC						
Symbol					**Type**	**Version**
H04W	/	76	/	50	F	2018-02-01
H04W	/	4	/	024	I	2018-02-01
H04W	/	4	/	029	I	2018-02-01
G01C	/	21	/	3415	I	2013-01-01
G01C	/	21	/	3461	I	2013-01-01
G01C	/	21	/	3697	I	2013-01-01
G08G	/	1	/	096716	I	2013-01-01
G08G	/	1	/	096741	I	2013-01-01
G08G	/	1	/	096791	I	2013-01-01
H04W	/	4	/	90	I	2018-02-01
H04L	/	65	/	1069	I	2013-01-01
H04W	/	4	/	02	I	2013-01-01
G08G	/	1	/	205	A	2013-01-01
H04W	/	84	/	18	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/DUSTIN NGUYEN/ Primary Examiner, Art Unit 2446	09 January 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	28

U.S. Patent and Trademark Office — Part of Paper No.: 20250108

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	**Art Unit**
	DUSTIN NGUYEN	2446

INTERNATIONAL CLASSIFICATION					
CLAIMED					
H04W	/	76	/	50	
NON-CLAIMED					
	/		/		

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
455	404.1

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/DUSTIN NGUYEN/ Primary Examiner, Art Unit 2446	09 January 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	28

U.S. Patent and Trademark Office — Part of Paper No.: 20250108

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	**Art Unit**
	DUSTIN NGUYEN	2446

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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2	3	11	12												
3	4	12	13												
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6	7	15	16												
7	8	16	17												
8	9	17	18												
9	10	18	19												

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	18	
/DUSTIN NGUYEN/ Primary Examiner, Art Unit 2446	09 January 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	28

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	Art Unit
	DUSTIN NGUYEN	2446

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L 63/08; 65/403	12/06/2024	DN
H04W 4/02, 06	12/06/2024	DN
H04N 23/62	12/06/2024	DN
G06F 16/176, 24575	12/06/2024	DN
G06Q 30/02; 50/163	12/06/2024	DN

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

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

Search Notes		
Search Notes	**Date**	**Examiner**
search results from related applications (18/883820, 18/639871, 18/639859)	12/06/2024	DN
review double patenting, 101, 112 issues	12/06/2024	DN
search PE2E (social/situation event)	12/06/2024	DN
review submitted IDS	12/06/2024	DN
non-patent literature search (ACM)	01/09/2025	DN

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/883,830	Cona et al.
	Examiner	Art Unit
	DUSTIN NGUYEN	2446

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
H04W	76/50	01/09/2025	DN
H04L	41/344; 63/06	01/09/2025	DN

Back

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A V U Phani Kumar, Adi Mallikarjuna Reddy V, D. Janakiram

MPAC '05: Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing
• Pages 1–8 • https://doi.org/10.1145/1101480.1101491

With the advancement of technology in micro-electronics and wireless communication, small miniature devices called sensor nodes can be used to perform various tasks by forming themselves in to wireless sensor networks. In Wireless Sensor Networks(WSN), ...

Highlights

38 1,034

< Back

Gilson I Wirth, Ivandro Ribeiro, Michele G Vieira, F G L Kastensmidt

SBCCI '06: Proceedings of the 19th annual symposium on integrated circuits and systems design
• Pages 184–189 • https://doi.org/10.1145/1150343.1150392

Radiation effects, like Single Event Transients (SET), are increasingly affecting integrated circuits as device dimensions are scaling down. With decreasing dimensions and supply voltages, the charge used to store information decreases, turning the ...

Highlights

2 268

< Back

Eugene Wu, Yanlei Diao, Shariq Rizvi

SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on Management of data

• Pages 407–418 • https://doi.org/10.1145/1142473.1142520

In this paper, we present the design, implementation, and evaluation of a system that executes complex event queries over real-time streams of RFID readings encoded as events. These complex event queries filter and correlate events to match specific ...

Highlights

595 6,277

< Back

Colin Swindells, Kori M. Inkpen, John C. Dill, Melanie Tory

UIST '02: Proceedings of the 15th annual ACM symposium on User interface software and technology • Pages 151–160 • https://doi.org/10.1145/571985.572007

Computing devices within current work and play environments are relatively static. As the number of 'networked' devices grows, and as people and their devices become more dynamic, situations will commonly arise where users will wish to use 'that device ...

Highlights

63 1,765

< Back

Qiao Li, Sung-Mo Kang

GLSVLSI '00: Proceedings of the 10th Great Lakes symposium on VLSI • Pages 143–146

• https://doi.org/10.1145/330855.331023

This paper presents the technology independent arbitrary device specification language and device extraction algorithm used in our layout extractor *iLEX*. Device models specified in the device specification language are converted to graphs, and subgraph ...

Highlights

5 318

< Back

Geoffrey Fox, Shrideep Pallickara, Xi Rao

JGI '02: Proceedings of the 2002 joint ACM-ISCOPE conference on Java Grande • Pages 66–75
• https://doi.org/10.1145/583810.583818

In this paper we propose a peer-to-peer (P2P) grid comprising resources such as relatively static clients, high-end resources and a dynamic collection of multiple P2P subsystems. We investigate the architecture of the messaging and event service that ...

Highlights

24 1,376

< Back

Alan F. Smeaton, Mike McHugh

VSSN '05: Proceedings of the third ACM international workshop on Video surveillance & sensor networks

• Pages 87–94 • https://doi.org/10.1145/1099396.1099414

In this paper, we describe an experiment where we gathered audio information from a series of conventional wired microphones installed in a typical university setting. We also obtained visual information from cameras located in the same area. We set out ...

A Highlights

20 774

< Back

Katrine Stemland Skjelsvik, Anna Lekova, Vera Goebel, Ellen Munthe-Kaas, + 2

MobiDE '06: Proceedings of the 5th ACM international workshop on Data engineering for wireless and mobile access

• Pages 67–74 • https://doi.org/10.1145/1140104.1140118

The subscription language is an important design decision for distributed event notification services (DENS). In order to minimize resource consumption and enable applications to use rich and complex subscription languages only when they are really ...

Highlights

5 261

< Back

Arjen van Rhijn, Jurriaan D. Mulder

EGVE'05: Proceedings of the 11th Eurographics conference on Virtual Environments • Pages 41–50

In this paper, a novel optical tracking and object calibration system is presented for the recognition and pose estimation of tangible interaction devices for virtual and augmented reality systems. The calibration system allows a user to automatically ...

Highlights

2

< Back

Adrian Miles

HYPERTEXT '01: Proceedings of the 12th ACM conference on Hypertext and Hypermedia
• Pages 61–68 • https://doi.org/10.1145/504216.504236

This paper proposes that within the practice of writing small scale, local hypertext, critical questions of relevance to all hypertext researchers are foregrounded, in particular problems of excess, context, and teleological interpretation.

A Highlights

17 811

< Back

A history of discrete event simulation programming languages

Richard E. Nance

History of programming languages---II • January 1996,Pages 369–427

• https://doi.org/10.1145/234286.1057822

The history of simulation programming languages is organized as a progression in periods of similar developments. The five periods, spanning 1955--1986, are labeled: The Period of Search (1955--1960); The Advent (1961--1965); The Formative Period (1966--...

A Highlights

43 2,173

< Back

Jay B. Ghosh

ANSS '85: Proceedings of the 18th annual symposium on Simulation • Pages 255–263

Traditionally, discrete-event simulations have been controlled in a synchronous manner. The synchronization is achieved through a data-structure, normally referred to as an events-list. Manipulations on this list can often be very expensive and can thus ...

Highlights

1 238

< Back

Leandros Tassiulas, Yao Chung Hung, Shivendra S. Panwar

IEEE/ACM Transactions on Networking (TON), Volume 2, Issue 4 • Pages 374–386
• https://doi.org/10.1109/90.330418

A Highlights

2 345

< Back

G. Cugola, E. Di Nitto, A. Fuggetta

ICSE '98: Proceedings of the 20th international conference on Software engineering
• Pages 261–270

Highlights

42 582

< Back

Lee Schruben

WSC '83: Proceedings of the 15th conference on Winter simulation - Volume 1 • Pages 101–108

In this article, we present an introduction to discrete event modeling and discuss some of the important issues related to model development. We are not talking about simulation codes nor statistical models for the outputs from such programs. Rather we ...

Highlights

2 270

< Back

Luca Caviglione, Franco Davoli

BWAN '06: Proceedings of the 2006 workshop on Broadband wireless access for ubiquitous networking

• Pages 6–es • https://doi.org/10.1145/1189186.1189194

The diffusion of wireless technologies is rapidly growing, and they are increasingly employed to provide connectivity on the road. Wireless systems are widely deployed to allow cheap devices to communicate, to provide local networking capabilities to ...

Highlights

0 257

< Back

Brian Salomon, Maxim Garber, Ming C. Lin, Dinesh Manocha

I3D '03: Proceedings of the 2003 symposium on Interactive 3D graphics • Pages 41–50

• https://doi.org/10.1145/641480.641491

We present a novel approach for interactive navigation in complex 3D synthetic environments using path planning. Our algorithm precomputes a global roadmap of the environment by using a variant of randomized motion planning algorithm along with a ...

Highlights

63 1,808

< Back

simulators

A. Bruno, F. Paternò, C. Santoro

TAMODIA '05: Proceedings of the 4th international workshop on Task models and diagrams
• Pages 63–70 • https://doi.org/10.1145/1122935.1122948

The design of workflow systems originated as an attempt to support coordinated data access. The improvement of interaction technology has created an opportunity for more flexible and interactive activities. Tools for modelling tasks in cooperative ...

Highlights

4 437

< Back

Akanksha Huang, Z. Huang, B. Prabhakaran, C. R. Ruiz

GRAPHITE '03: Proceedings of the 1st international conference on Computer graphics and interactive techniques in Australasia and South East Asia
• Pages 29–ff • https://doi.org/10.1145/604471.604479

We consider a repository of animation models and motions that can be reused to generate new animation sequences. For instance, a user can retrieve an animation of a dog kicking its leg (in air) and manipulate the result to generate a new animation where ...

A Highlights

6 340

< Back

Mike Hazas, Christian Kray, Hans Gellersen, Henoc Agbota, Gerd Kortuem,
+ 1

MobiSys '05: Proceedings of the 3rd international conference on Mobile systems, applications, and services
• Pages 177–190 • https://doi.org/10.1145/1067170.1067190

If a mobile computing device knows how it is positioned and oriented in relation to other devices nearby, then it can provide enhanced support for multi-device and multi-user interactions. Existing systems that provide position information to mobile ...

Highlights

129 1,597

< Back

Gerd Kortuem, Christian Kray, Hans Gellersen

UIST '05: Proceedings of the 18th annual ACM symposium on User interface software and technology • Pages 93–102 • https://doi.org/10.1145/1095034.1095049

Location information can be used to enhance interaction with mobile devices. While many location systems require instrumentation of the environment, we present a system that allows devices to measure their spatial relations in a true peer-to-peer ...

Highlights

56 1,491

< Back

Adrian David Cheok, Keng Soon Teh, Ta Huynh Duy Nguyen, Tran Cong Thien Qui, Shang Ping Lee,

* 4

Computers in Entertainment (CIE), Volume 4, Issue 2 • Pages 5—es

• https://doi.org/10.1145/1129006.1129015

This article outlines an overview of new paradigms in social and physical interaction in mixed-reality entertainment. Social and physical interactions are constrained, and thus natural interactions are lost in most current digital entertainment systems. ...

A Highlights

17 2,298

< Back

Christian Bartelt, Thomas Fischer, Dirk Niebuhr, Andreas Rausch, Franz Seidl, + 1

DEAS '05: Proceedings of the 2005 workshop on Design and evolution of autonomic application software

• Pages 1–7 • https://doi.org/10.1145/1083063.1083085

In these days the trend "everything, every time, everywhere" becomes more and more apparent. As consequence of this trend everyone has a lot of small or invisible devices in his direct environment, e.g. mobile phones, PDAs, or music players. Also some ...

Also Published in:

ACM SIGSOFT Software Engineering Notes: Volume 30 Issue 4

A Highlights

25 514

< Back

David M. Hilbert, David F. Redmiles

ACM Computing Surveys (CSUR), Volume 32, Issue 4 • Pages 384–421

• https://doi.org/10.1145/371578.371593

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user ...

Highlights

281 10,490

< Back

Andrea Corradini, Manish Mehta, Niels-Ole Bernsen, Marcela Charfuelan

IUI '05: Proceedings of the 10th international conference on Intelligent user interfaces
• Pages 183–190 • https://doi.org/10.1145/1040830.1040872

Within the framework of the project NICE (Natural Interactive Communication for Edutainment) [2], we have been developing an educational and entertaining computer game that allows children and teenagers to interact with a conversational character ...

Highlights

23 1,454

< Back

Xinyi Yin, Wee Sun Lee

WWW '04: Proceedings of the 13th international conference on World Wide Web • Pages 338–344
• https://doi.org/10.1145/988672.988718

Delivering web pages to mobile phones or personal digital assistants has become possible with the latest wireless technology. However, mobile devices have very small screen sizes and memory capacities. Converting web pages for delivery to a mobile ...

Highlights

54 1,327

< Back

Colin Murray

APVis '05: proceedings of the 2005 Asia-Pacific symposium on Information visualisation - Volume 45
• Pages 7–14

Skeletal animation is a concept that has been used in the areas of motion pictures and computer games to create realistic motion for the animation of articulated characters. Recent work (Merrick & Dwyer 2004, Murray et al. 2004) has applied skeletal ...

Highlights

0 404

< Back

Ramesh Jain, Pilho Kim, Zhao Li

ETP '03: Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence • Pages 1–12
• https://doi.org/10.1145/982484.982486

We are developing experiential meeting systems to allow people to be tele-present in a remote meeting and to be able to review proceedings of a meeting or of several meetings using all the data recorded in a meeting. We consider this as a problem in ...

Highlights

37 409

< Back

Pablo Cesar, Petri Vuorimaa, Juha Vierinen

ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM), Volume 2, Issue 4

• Pages 343–357 • https://doi.org/10.1145/1201730.1201735

This article presents a graphics software architecture for next-generation digital television receivers. We propose that such receivers should include a standardised Java-based procedural environment capable of rendering 2D/3D graphics and video, and a ...

A Highlights

10 1,004

< Back

Bruce Blumberg, Marc Downie, Yuri Ivanov, Matt Berlin,

Michael Patrick Johnson, + 1

SIGGRAPH '02: Proceedings of the 29th annual conference on Computer graphics and interactive techniques

• Pages 417–426 • https://doi.org/10.1145/566570.566597

The ability to learn is a potentially compelling and important quality for interactive synthetic characters. To that end, we describe a practical approach to real-time learning for synthetic characters. Our implementation is grounded in the techniques of ...

Highlights

82 1,812

< Back

Bruce Blumberg, Marc Downie, Yuri Ivanov, Matt Berlin,

Michael Patrick Johnson, + 1

ACM Transactions on Graphics (TOG), Volume 21, Issue 3 • Pages 417–426

• https://doi.org/10.1145/566654.566597

The ability to learn is a potentially compelling and important quality for interactive synthetic characters. To that end, we describe a practical approach to real-time learning for synthetic characters. Our implementation is grounded in the techniques ...

Highlights

42 1,724

< Back

Gang Ren, Peng Wu, David Padua

PLDI '06: Proceedings of the 27th ACM SIGPLAN Conference on Programming Language Design and Implementation
• Pages 118–131 • https://doi.org/10.1145/1133981.1133996

The widespread presence of SIMD devices in today's microprocessors has made compiler techniques for these devices tremendously important. One of the most important and difficult issues that must be addressed by these techniques is the generation of the ...

Also Published in:

ACM SIGPLAN Notices: Volume 41 Issue 6

Highlights

79 1,363

< Back

Rameshsharma Ramloll, John A. Mariani

WACC '99: Proceedings of the international joint conference on Work activities coordination and collaboration

• Pages 207–216 • https://doi.org/10.1145/295665.295690

Collaborative systems need to provide some means for users to be aware of peer activities. Common approaches involve broadcasting events generated as a result of a particular user's actions at the interface to others. Rather than flooding users with ...

Also Published in:

ACM SIGSOFT Software Engineering Notes: Volume 24 Issue 2

A Highlights

1 324

< Back

Gregor Snelting, Wolfgang Henhapl

POPL '86: Proceedings of the 13th ACM SIGACT-SIGPLAN symposium on Principles of programming languages

• Pages 229–235 • https://doi.org/10.1145/512644.512665

Language-specific editors for typed programming languages must contain a subsystem for semantic analysis in order to guarantee correctness of programs with respect to the context conditions of the language. As programs are usually incomplete during ...

Highlights

10 206

< Back

mutual understanding

Per-Anders Hillgren, Per Linde

NordiCHI '06: Proceedings of the 4th Nordic conference on Human-computer interaction: changing roles

• Pages 301–310 • https://doi.org/10.1145/1182475.1182507

As digital media are becoming more and more ubiquitous in our environments, it has the potential to capture and mediate situated information expressing the embedded nature of practice. Within healthcare settings, such information is often important for ...

Highlights

4 495

< Back

Nicolas Anciaux, Luc Bouganim, Philippe Pucheral

VLDB '03: Proceedings of the 29th international conference on Very large data bases - Volume 29
• Pages 694–705

Pervasive computing introduces data management requirements that must be tackled in a growing variety of lightweight computing devices. Personal folders on chip, networks of sensors and data hosted by autonomous mobile computers are different ...

Highlights

8 102

< Back

Augusto Celentano, Michele Nodari, Fabio Pittarello

Web3D '04: Proceedings of the ninth international conference on 3D Web technology • Pages 41–50 • https://doi.org/10.1145/985040.985047

In recent years a number of techniques have been studied for augmenting the ease of use of 3D worlds: methodologies for adapting both navigation and content allow a user to interact with a customized 3D world; adaptable navigation paradigms offer ...

Highlights

14 1,413

< Back

Colin Murray, Damian Merrick, Masahiro Takatsuka

APVis '04: Proceedings of the 2004 Australasian symposium on Information Visualisation - Volume 35
• Pages 81–90

Skeletal animation is a concept that has been used in the areas of motion pictures and computer games to create realistic motion for the animation of articulated characters. Recent work has applied skeletal animation techniques from inverse kinematics to ...

A Highlights

3 453

< Back

Dinesh K. Pai, Kees van den Doel, Doug L. James, Jochen Lang, John E. Lloyd, + 2

SIGGRAPH '05: ACM SIGGRAPH 2005 Courses • Pages 154–es
• https://doi.org/10.1145/1198555.1198615

We describe a system for constructing computer models of several aspects of physical interaction behavior, by scanning the response of real objects. The behaviors we can successfully scan and model include deformation response, contact textures for ...

Highlights

3 347

< Back

Takeo Igarashi, W. Keith Edwards, Anthony LaMarca, Elizabeth D. Mynatt

AVI '00: Proceedings of the working conference on Advanced visual interfaces • Pages 68–75

• https://doi.org/10.1145/345513.345256

This paper describes the software architecture for our pen-based electronic whiteboard system, called Flatland. The design goal of Flatland is to support various activities on personal office whiteboards, while maintaining the outstanding ease of use and ...

Highlights

15 1,006

< Back

Gonzalo Navarro, Ricardo Baeza-Yates

ACM Transactions on Information Systems (TOIS), Volume 15, Issue 4 • Pages 400–435

• https://doi.org/10.1145/263479.263482

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The ...

Highlights

127 1,444

< Back

Sasu Tarkoma, Jaakko Kangasharju, Kimmo Raatikainen

DEBS '03: Proceedings of the 2nd international workshop on Distributed event-based systems
• Pages 1–8 • https://doi.org/10.1145/966618.966632

Event-based computing is vital for the next generation mobile services and applications that need to meet user requirements irrespective of time and location. The event paradigm is a form of asynchronous one-to-many communication and allows clients to ...

Highlights

7 460

< Back

John M. Airey, John H. Rohlf, Frederick P. Brooks

I3D '90: Proceedings of the 1990 symposium on Interactive 3D graphics • Pages 41–50

• https://doi.org/10.1145/91385.91416

Two strategies, pre-computation before display and adaptive refinement during display, are used to combine interactivity with high image quality in a virtual building simulation. Pre-computation is used in two ways. The hidden-surface problem is ...

Also Published in:

ACM SIGGRAPH Computer Graphics: Volume 24 Issue 2

A Highlights

252 1,313

< Back

Philip Barnard, Jon May, David Duke, David Duce

ACM Transactions on Computer-Human Interaction (TOCHI), Volume 7, Issue 2 • Pages 222–262

• https://doi.org/10.1145/353485.353490

A significant proportion of early HCI research was guided by one very clear vision: that the existing theory base in psychology and cognitive science could be developed to yield engineering tools for use in the interdisciplinary context of HCI design. ...

Highlights

67 2,689

< Back

Stefano Arondi, Pietro Baroni, Daniela Fogli, Piero Mussio

AVI '02: Proceedings of the Working Conference on Advanced Visual Interfaces • Pages 177–186

• https://doi.org/10.1145/1556262.1556291

This paper presents an approach to support the designer of Visual Interactive Systems (VISs) in adapting a VIS to the evolution of its users. This process is called *co-evolution* of users and systems. The approach is based on the identification of the ...

Highlights

10 153

< Back

framework for the interactive editing of large datasets


Thomas Baudel

UIST '06: Proceedings of the 19th annual ACM symposium on User interface software and technology • Pages 67–76 • https://doi.org/10.1145/1166253.1166265

Today's generic data management applications such as accounting, CRM or logging and tracking software, rely on form and menu based interfaces. These applications take only marginal advantage of current graphical user interfaces. This is because the data ...

Highlights





22 1,390






< Back

Thomas P. Moran, Patrick Chiu, William van Melle

UIST '97: Proceedings of the 10th annual ACM symposium on User interface software and technology • Pages 45–54 • https://doi.org/10.1145/263407.263508

A Highlights

88 1,164

< Back

Santiago Lombeyda, Laurent Moll, Mark Shand, David Breen, Alan Heirich

PVG '01: Proceedings of the IEEE 2001 symposium on parallel and large-data visualization and graphics

• Pages 115–121

This paper describes an application of a second generation implementation of the Sepia architecture (Sepia-2) to interactive volumetric visualization of large rectilinear scalar fields. By employing pipelined associative blending operators in a sort-...

Highlights

22 395

< Back

Normand Brière, Pierre Poulin

SIGGRAPH '96: Proceedings of the 23rd annual conference on Computer graphics and interactive techniques
• Pages 83–90 • https://doi.org/10.1145/237170.237211

A Highlights

21 580

< Back

Dinesh K. Pai, Kees van den Doel, Doug L. James, Jochen Lang, John E. Lloyd, + 2

SIGGRAPH '01: Proceedings of the 28th annual conference on Computer graphics and interactive techniques
• Pages 87–96 • https://doi.org/10.1145/383259.383268

We describe a system for constructing computer models of several aspects of physical interaction behavior, by scanning the response of real objects. The behaviors we can successfully scan and model include deformation response, contact textures for ...

Highlights

154 1,552

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

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Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	2446
Examiner Name	DUSTIN NGUYEN
Attorney Docket Number	000137-0005-129

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	3	20050223102	A1	2005-10-06	ZHANG et al.	
	4	20060013171	A1	2006-01-19	AHUJA et al.	
	5	20060176847	A1	2006-08-10	CHEN et al.	

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(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	2446
Examiner Name	DUSTIN NGUYEN
Attorney Docket Number	000137-0005-129

Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	18883830
Filing Date	2024-09-12
First Named Inventor	Thomas Cona
Art Unit	2446
Examiner Name	DUSTIN NGUYEN
Attorney Docket Number	000137-0005-129

CERTIFICATION STATEMENT

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

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☐ See attached certification statement.

☒ A certification statement is not submitted herewith.

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

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☐ An identification of an earlier application pursuant to 37 CFR 1.98 (d) (1) is attached.

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	/Maxim Rapoport/	Date (YYYY-MM-DD)	2024-12-09
Name/Print	Maxim Rapoport	Registration Number	67,675

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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Alan F. Smeaton, Mike McHugh

VSSN '05: Proceedings of the third ACM international workshop on Video surveillance & sensor networks

• Pages 87–94 • https://doi.org/10.1145/1099396.1099414

In this paper, we describe an experiment where we gathered audio information from a series of conventional wired microphones installed in a typical university setting. We also obtained visual information from cameras located in the same area. We set out ...

A Highlights

20 774

< Back

Katrine Stemland Skjelsvik, Anna Lekova, Vera Goebel, Ellen Munthe-Kaas, + 2

MobiDE '06: Proceedings of the 5th ACM international workshop on Data engineering for wireless and mobile access

• Pages 67–74 • https://doi.org/10.1145/1140104.1140118

The subscription language is an important design decision for distributed event notification services (DENS). In order to minimize resource consumption and enable applications to use rich and complex subscription languages only when they are really ...

Highlights

5 261

< Back

A. B. Carroll, R. T. Wetherald

Journal of the ACM (JACM), Volume 14, Issue 3 • Pages 591–614

• https://doi.org/10.1145/321406.321419

The purpose of this study is to illustrate the application of a parallel network processing computing system to an important class of problems in hydrodynamics. The computing system selected for this study is a prototype of the SOLOMON parallel ...

Highlights

1,278

< Back

Nicolas Anciaux, Luc Bouganim, Philippe Pucheral

VLDB '03: Proceedings of the 29th international conference on Very large data bases - Volume 29
• Pages 694–705

Pervasive computing introduces data management requirements that must be tackled in a growing variety of lightweight computing devices. Personal folders on chip, networks of sensors and data hosted by autonomous mobile computers are different ...

Highlights

8 102

< Back

Trevor Armstrong, Olivier Trescases, Cristiana Amza, Eyal de Lara

MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services

• Pages 56–68 • https://doi.org/10.1145/1134680.1134687

We introduce a novel infrastructure supporting automatic updates for dynamic content browsing on resource constrained mobile devices. Currently, the client is forced to continuously poll for updates from potentially different data sources, such as, e-...

Highlights

43 1,093

< Back

Peter Mika, Daniel Oberle, Aldo Gangemi, Marta Sabou

WWW '04: Proceedings of the 13th international conference on World Wide Web • Pages 563–572
• https://doi.org/10.1145/988672.988748

Clarity in semantics and a rich formalization of this semantics are important requirements for ontologies designed to be deployed in large-scale, open, distributed systems such as the envisioned Semantic Web This is especially important for the ...

Highlights

42 2,278

< Back

David Nicol, Philip Heidelberger

ACM Transactions on Modeling and Computer Simulation (TOMACS), Volume 6, Issue 3
• Pages 210–242 • https://doi.org/10.1145/235025.235031

This article describes an approach to discrete event simulation modeling that appears to be effective for developing portable and efficient parallel execution of models of large distributed systems and communication networks. In this approach, the ...

A Highlights

73 704

< Back

Oriana Riva

Middleware '06: Proceedings of the ACM/IFIP/USENIX 2006 International Conference on Middleware
• Pages 219–239

Context-awareness can serve to make ubiquitous applications deployed for mobile devices adaptive, personalized, and accessible in dynamically changing environments. Unfortunately, existing approaches for the provisioning of context information in ...

Highlights

12 268

< Back

Oriana Riva

Middleware'06: Proceedings of the 7th ACM/IFIP/USENIX international conference on Middleware • Pages 219–239 • https://doi.org/10.1007/11925071_12

Context-awareness can serve to make ubiquitous applications deployed for mobile devices adaptive, personalized, and accessible in dynamically changing environments. Unfortunately, existing approaches for the provisioning of context information in ...

Highlights

3

< Back

Kurt Saar

VRML '99: Proceedings of the fourth symposium on Virtual reality modeling language
• Pages 141–152 • https://doi.org/10.1145/299246.299287

A Highlights

16 1,123

< Back

Ioannis Chatzigiannakis, Sotiris Nikoletseas, Paul Spirakis

POMC '02: Proceedings of the second ACM international workshop on Principles of mobile computing • Pages 9–16 • https://doi.org/10.1145/584490.584493

Smart Dust is a set of a ast number of ultra-small fully autonomous computing and communication devices, with very restricted energy and computing capabilities, that cooperate to quickly and efficiently accomplish a large sensing task. Smart Dust can be ...

Highlights

51 989

< Back

Adrian Andronache, Matthias R. Brust, Steffen Rothkugel

WMuNeP '06: Proceedings of the 2nd ACM international workshop on Wireless multimedia networking and performance modeling
• Pages 1–10 • https://doi.org/10.1145/1163698.1163700

Fixed infrastructured networks naturally support centralized approaches for group management and information provisioning. Contrary to infrastructured networks, in multi-hop ad-hoc networks each node acts as a router as well as sender and receiver. Some ...

Highlights

18 477

< Back

Iyh-How Huang, Saqib Amjad, Shivakant Mishra

SenSys '05: Proceedings of the 3rd international conference on Embedded networked sensor systems • Pages 180–191 • https://doi.org/10.1145/1098918.1098938

This paper describes the design, implementation and evaluation of a search and rescue system called CenWits. CenWits uses several small, commonly-available RF-based sensors, and a small number of storage and processing devices. It is designed for search ...

Highlights

112 1,015

< Back

ZebraNet

Philo Juang, Hidekazu Oki, Yong Wang, Margaret Martonosi, Li Shiuan Peh, + 1

ASPLOS X: Proceedings of the 10th international conference on Architectural support for programming languages and operating systems
• Pages 96–107 • https://doi.org/10.1145/605397.605408

Over the past decade, mobile computing and wireless communication have become increasingly important drivers of many new computing applications. The field of wireless sensor networks particularly focuses on applications involving autonomous use of ...

Also Published in:

ACM SIGPLAN Notices: Volume 37 Issue 10 • ACM SIGARCH Computer Architecture News: Volume 30 Issue 5 • ACM SIGOPS Operating Systems Review: Volume 36 Issue 5

Highlights

1,437 5,593

< Back

Bret Hull, Vladimir Bychkovsky, Yang Zhang, Kevin Chen, Michel Goraczko, * 4

SenSys '06: Proceedings of the 4th international conference on Embedded networked sensor systems • Pages 125–138 • https://doi.org/10.1145/1182807.1182821

CarTel is a mobile sensor computing system designed to collect, process, deliver, and visualize data from sensors located on mobile units such as automobiles. A CarTel node is a mobile embedded computer coupled to a set of sensors. Each node gathers and ...

Highlights

779 3,825

< Back

learning

Michael Kipp

IVA'06: Proceedings of the 6th international conference on Intelligent Virtual Agents
• Pages 230–242 • https://doi.org/10.1007/11821830_19

Providing virtual characters with natural gestures is a complex task. Even if the range of gestures is limited, deciding when to play which gesture may be considered both an engineering or an artistic task. We want to strike a balance by presenting a ...

Highlights

6

< Back

Robert Szewczyk, Alan Mainwaring, Joseph Polastre, John Anderson, David Culler

SenSys '04: Proceedings of the 2nd international conference on Embedded networked sensor systems • Pages 214–226 • https://doi.org/10.1145/1031495.1031521

Habitat and environmental monitoring is a driving application for wireless sensor networks. We present an analysis of data from a second generation sensor networks deployed during the summer and autumn of 2003. During a 4 month deployment, these ...

A Highlights

692 2,958

< Back

Elgan Huang, Wenjun Hu, Jon Crowcroft, Ian Wassell

MobiHoc '05: Proceedings of the 6th ACM International symposium on Mobile ad hoc networking and computing
• Pages 355–365 • https://doi.org/10.1145/1062689.1062734

We propose a novel and plausibly realistic application scenario for mobile ad hoc networks in the form of a radio dispatch system. We evaluate the system from both financial and technical perspectives to gain a complete picture of its feasibility. Using ...

Highlights

34 1,412

< Back

Van Oleson, Greg Eisenhaur, Calton Pu, Karsten Schwan, Beth Plale, Dick Amin

WIESS'00: Proceedings of the 1st conference on Industrial Experiences with Systems Software - Volume 1

• Page 1

Our research is motivated by the scaleability, availability, and extensibility challenges in deploying open systems based, enterprise operational applications. We present Delta's mid-tier Operational Information Systems (OIS) as an approach for ...

A Highlights

5 39

< Back

Paresh Dhakan, Ronaldo Menezes

ACMSE '05 vol 2: Proceedings of the 43rd annual ACM Southeast Conference - Volume 2
• Pages 59–64 • https://doi.org/10.1145/1167253.1167268

Mobile Ad-Hoc Networks (MANETs) have become a popular subject in the last decade. It is hard to underestimate the potential of this technology to the future of wireless networks, including wireless telephony. MANET is an attractive concept particularly ...

Highlights

6 496

< Back

and research

Martin Törngren, Martin Grimheden, Niklas Adamsson

ACM SIGBED Review (SIGBED), Volume 4, Issue 1 • Pages 55–63

• https://doi.org/10.1145/1217809.1217816

We present experiences from a final year M.Sc. course. The overall aim of the course is to provide knowledge and skills to develop products in small or large development teams. The course is implemented in terms of large projects in cooperation with ...

Highlights

480

< Back

Frank Reichenbach, Andreas Bobek, Philipp Hagen, Dirk Timmermann

SelfMan'06: Proceedings of the Second IEEE International conference on Self-Managed Networks, Systems, and Services

• Pages 157–170 • https://doi.org/10.1007/11767886_12

Energy aware and robust self-organization is a challenging task in large, randomly deployed wireless sensor networks. In this paper, we achieve such a self-organization by introducing a hierarchical network structure and additionally roles that ...

A Highlights

3

Back

Samuel R. Madden, Michael J. Franklin, Joseph M. Hellerstein, Wei Hong

ACM Transactions on Database Systems (TODS), Volume 30, Issue 1 • Pages 122–173

• https://doi.org/10.1145/1061318.1061322

We discuss the design of an acquisitional query processor for data collection in sensor networks. Acquisitional issues are those that pertain to where, when, and how often data is physically acquired (*sampled*) and delivered to query processing ...

Highlights

1,456 11,741

< Back

Bernhard Stegmaier, Richard Kuntschke, Alfons Kemper

DMSN '04: Proceeedings of the 1st International workshop on Data management for sensor networks: in conjunction with VLDB 2004
• Pages 88–97 • https://doi.org/10.1145/1052199.1052214

Recent research and development efforts show the increasing importance of processing data streams, not only in the context of sensor networks, but also in information retrieval networks. With the advent of various mobile devices being able to ...

Highlights

17 551

< Back

Douglas M. Blough, Mauro Leoncini, Giovanni Resta, Paolo Santi

MobiHoc '03: Proceedings of the 4th ACM international symposium on Mobile ad hoc networking & computing

• Pages 141–152 • https://doi.org/10.1145/778415.778433

We propose an approach to topology control based on the principle of maintaining the number of neighbors of every node equal to or slightly below a specific value *k*. The approach enforces symmetry on the resulting communication graph, thereby easing the ...

A Highlights

91 1,474

< Back

Eranga Perera, Vijay Sivaraman, Aruna Seneviratne

ACM SIGMOBILE Mobile Computing and Communications Review (SIGMOBILE), Volume 8, Issue 2 • Pages 7–19 • https://doi.org/10.1145/997122.997127

Providing unperturbed Internet connectivity to mobile hosts has been studied in the IETF for some years now, and protocols such as Mobile IP and Mobile IPv6 have been developed. We are now witnessing the emergence of mobile networks, namely a set of ...

Highlights

148 3,970

< Back

Benjamin Lok, Samir Naik, Mary Whitton, Frederick P. Brooks

I3D '03: Proceedings of the 2003 symposium on Interactive 3D graphics • Pages 31–40

• https://doi.org/10.1145/641480.641490

We present algorithms that enable virtual objects to interact with and respond to virtual representations, *avatars*, of real objects. These techniques allow dynamic real objects, such as the user, tools, and parts, to be visually and physically ...

Highlights

5 1,157

< Back

Kevin Fall

SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications
• Pages 27–34 • https://doi.org/10.1145/863955.863960

The highly successful architecture and protocols of today's Internet may operate poorly in environments characterized by very long delay paths and frequent network partitions. These problems are exacerbated by end nodes with limited power or memory ...

Highlights

1,212 11,444

< Back

Donald J. Scott

ACMSE '05 vol 2: Proceedings of the 43rd annual ACM Southeast Conference - Volume 2
• Pages 87–91 • https://doi.org/10.1145/1167253.1167273

Mobile Ad hoc networks are networks composed of mobile computing devices with wireless connections and no fixed infrastructure. The unique attributes of these networks cause new security problems. Some security protocols, such as the Timed, Ef£cient, ...

Highlights

6 365

< Back

Paolo Santi

ACM Computing Surveys (CSUR), Volume 37, Issue 2 • Pages 164–194

• https://doi.org/10.1145/1089733.1089736

Topology Control (TC) is one of the most important techniques used in wireless ad hoc and sensor networks to reduce energy consumption (which is essential to extend the network operational time) and radio interference (with a positive effect on the ...

Highlights

619 13,373

< Back

Glenn Judd, Peter Steenkiste

E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis
• Pages 58–63 • https://doi.org/10.1145/1080148.1080161

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the ...

Highlights

16 3,307

< Back

Jaap Kamps, Maarten Marx, Maarten de Rijke, Börkur Sigurbjörnsson

CIKM '05: Proceedings of the 14th ACM international conference on information and knowledge management

• Pages 4–11 • https://doi.org/10.1145/1099554.1099559

Document-centric XML is a mixture of text and structure. With the increased availability of document-centric XML content comes a need for query facilities in which both structural constraints and constraints on the content of the documents can be ...

A Highlights

22 833

< Back

A fast, memory-efficient register allocation framework for embedded systems

Sathyanarayanan Thammanur, Santosh Pande

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 26, Issue 6
• Pages 938–974 • https://doi.org/10.1145/1034774.1034776

In this work, we describe a "just-in-time," usage density-based register allocator geared toward embedded systems with a limited general-purpose register set wherein speed, code size, and memory requirements are of equal concern. The main ...

Highlights

7 1,049

< Back

I. Vasilescu, K. Kotay, D. Rus, M. Dunbabin, P. Corke

SenSys '05: Proceedings of the 3rd international conference on Embedded networked sensor systems • Pages 154–165 • https://doi.org/10.1145/1098918.1098936

In this paper we present a novel platform for underwater sensor networks to be used for long-term monitoring of coral reefs and fisheries. The sensor network consists of static and mobile underwater sensor nodes. The nodes communicate point-to-point ...

Highlights

429 4,365

< Back

Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson

WSNA '02: Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications

• Pages 88–97 • https://doi.org/10.1145/570738.570751

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities for ...

Highlights

2,692 16,682

< Back

André Meyer

ACM SIGCHI Bulletin (SIGCHI), Volume 27, Issue 3 • Pages 46–90

• https://doi.org/10.1145/221296.221308

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction ...

Highlights

41 4,685

< Back

Carlo Jacucci, Giulio Jacucci, Ina Wagner, Thomas Psik

CC '05: Proceedings of the 4th decennial conference on Critical computing: between sense and sensibility

• Pages 19–28 • https://doi.org/10.1145/1094562.1094566

This paper addresses design agendas in Human-Computer Interaction and neighbouring fields motivated by the *mixing* of areas that were mostly kept separate until recently, such as media studies, performing arts, computing, and ubiquitous or tangible ...

Highlights

41 830

< Back

Nicholas Gibbins, Stephen Harris, Nigel Shadbolt

WWW '03: Proceedings of the 12th international conference on World Wide Web • Pages 710–717

• https://doi.org/10.1145/775152.775251

The Web Services world consists of loosely-coupled distributed systems which adapt to ad-hoc changes by the use of service descriptions that enable opportunistic service discovery. At present, these service descriptions are semantically impoverished, ...

Highlights

55 3,075

< Back

Charles W. Bachman, Thomas Haigh

ACM Oral History Interviews • Interview No.: 2 • https://doi.org/10.1145/1141880.1141882

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War ...

A Highlights

1 5,075

< Back

Haran Boral, David J. DeWitt

SIGMOD '80: Proceedings of the 1980 ACM SIGMOD international conference on Management of data

• Pages 94–104 • https://doi.org/10.1145/582250.582266

This paper presents a discussion of the application of data-flow machine concepts to the design and implementation of database machines which execute relational algebra queries. We analyze the performance of multiprocessor nested-loops and sort-merge ...

A Highlights

18 446

< Back

Sanjay Jain, Charles R. McLean

WSC '06: Proceedings of the 38th conference on Winter simulation • Pages 493–500

This paper describes a prototype that has been developed to demonstrate the concept of integrated gaming and simulation for incident management. An architecture for the purpose was developed and presented at the last conference. A hypothetical emergency ...

Highlights

3 358

< Back

Joonhwan Lee, Jodi Forlizzi, Scott E. Hudson

CHI '05: Proceedings of the SIGCHI Conference on Human Factors in Computing Systems
• Pages 571–580 • https://doi.org/10.1145/1054972.1055051

In-vehicle navigation has changed substantially in recent years, due to the advent of computer generated maps and directions. However, these maps are still problematic, due to a mismatch between the complexity of the maps and the attentional demands of ...

Highlights

25 1,152

< Back

course are available on the citation page)

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez

SIGGRAPH '06: ACM SIGGRAPH 2006 Courses • Pages 1–es

• https://doi.org/10.1145/1185657.1185814

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and ...

Highlights

13 111

< Back

Michael Elhadad, Jacques Robin, Kathleen McKeown

Computational Linguistics (COLI), Volume 23, Issue 2 • Pages 195 – 239

Lexical choice is a computationally complex task, requiring a generation system to consider a potentially large number of mappings between concepts and words. Constraints that aid in determining which word is best come from a wide variety of sources, ...

A Highlights

15 423

< Back

scientific applications

Edwin D. Reilly

Encyclopedia of Computer Science • January 2003,Pages 1538–1550

Computation has always played a central role in science. A new theory either gains acceptance or dies in direct proportion to its success in explaining known phenomena and predicting new ones, not just qualitatively but also quantitatively. Einstein's ...

Highlights

0 192

< Back

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, + 3

SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes • Pages 32–es

• https://doi.org/10.1145/1103900.1103932

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives ...

Highlights

9 11,024

< Back

Andrew Laursen, Jeffrey Olkin, Mark Porter

SIGMOD '94: Proceedings of the 1994 ACM SIGMOD international conference on Management of data

• Pages 470–477 • https://doi.org/10.1145/191839.191933

Currently, most data accessed on large servers is structured data stored in traditional databases. Networks are LAN based and clients range from simple terminals to powerful workstations. The user is corporate and the application developer is an MIS ...

Also Published in:

ACM SIGMOD Record: Volume 23 Issue 2

A Highlights

30 939

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Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, * 4

ACM SIGOPS Operating Systems Review (SIGOPS), Volume 36, Issue SI • Pages 255–270
• https://doi.org/10.1145/844128.844152

Three experimental environments traditionally support network and distributed systems research: network emulators, network simulators, and live networks. The continued use of multiple approaches highlights both the value and inadequacy of each. Netbed, ...

A Highlights

172 2,774

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Calton Pu, Karsten Schwan, Jonathan Walpole

ACM SIGMOD Record (SIGMOD), Volume 30, Issue 1 • Pages 25 - 34

• https://doi.org/10.1145/373626.373680

We describe the Infosphere project, which is building the systems software support for information-driven applications such as digital libraries and electronic commerce. The main technical contribution is the Infopipe abstraction to support information ...

Highlights

25 358

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Hocine Grine, Thierry Delot, Sylvain Lecomte

MPAC '05: Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing

• Pages 1–8 • https://doi.org/10.1145/1101480.1101494

These last years, the evolution of nomadic terminals and mobile networks has yield to the development of the ubiquitous computing. In this context, actual query evaluation and optimization techniques in distributed databases based on the use of a global ...

Highlights

7 944

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Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

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1473 7590 01/17/2025

Haley Guiliano LLP
75 Broad Street
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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

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(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	09/12/2024	Thomas Cona	000137-0005-129	4619

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

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	04/17/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, DUSTIN	2446	455-404100

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/AIA/122 or PTO/SB/122) attached.

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

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

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: SitNet LLC

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Dover, DE

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

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

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☐ Applicant asserting small entity status. See 37 CFR 1.27

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

☐ Applicant changing to regular undiscounted fee status.

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

Authorized Signature /Maxim A. Rapoport/ Date January 22, 2025

Typed or printed name Maxim A. Rapoport Registration No. 67,675

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/883,830	**01/22/2025 01:48:23 PM Z ET**	**000137-0005-129**

Title of Invention

METHOD AND SYSTEM FOR USING A SITUATIONAL NETWORK

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	4619	FILED BY	Shari Jackson
PATENT CENTER #	68860485	FILING DATE	09/12/2024
CUSTOMER #	1473	FIRST NAMED INVENTOR	Thomas Cona
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Maxim Rapoport

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
000137-0005-129-IF.pdf	1	Issue Fee Payment (PTO-85B)	120 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
000137-0005-129-IF.pdf	9B279E7C245BD55F2A1C821D9E17EEE45F2BED09C8829A94 C9BC9B3ABF5841C6B8F90EB5DBE4D703528FFEDAF23D953B F683C67E3F40AF4AEFF5844825EDAF4E

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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.

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CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Thomas Cona

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DA / 061075	**E20251LD49287780**	**Shari Jackson**

PRE-AUTHORIZED ACCOUNT	PRE-AUTHORIZED CATEGORY
061075	**37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post Issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)**

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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	03/04/2025	12245325	000137-0005-129	4619

1473 7590 02/12/2025

Haley Guiliano LLP
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New York, NY 10004-3222

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.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 Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

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

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

SitNet LLC, Dover, DE;

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/883,830	09/12/2024	Thomas Cona	000137-0005-129	4619

1473 7590 03/04/2025

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New York, NY 10004-3222

EXAMINER	
NGUYEN, DUSTIN	

ART UNIT	PAPER NUMBER
2446	

NOTIFICATION DATE	DELIVERY MODE
03/04/2025	ELECTRONIC

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

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

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

HGPatentDocket@hglaw.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/883,830	04-Mar-2025	12245325

Haley Guiliano LLP
75 Broad Street
New York, NY 10004-3222

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants