**In The United States Patent And Trademark Office**

Appn. Number: 12/151,827
Appn. Filed: 8 May 2008
Applicant: Gabriel Jakobson
Docket: WIDEWEKE
Title: Method and system for displaying navigation information on an electronic map
Submitted: USPS Express Mail EB 583013309 US

Commissioner of Patents
P.O. box 1450
Alexandria VA 22313-1450

PRELIMINARY AMENDMENT

Sir:

This preliminary amendment was made to more accurately describe the invention.

Amendment is only being made to the first claim of the application.

1. (Currently Amended) A method for displaying object vector indicators ("OVI") referencing map-objects ("MO") on an electronic map, comprising:
 - providing an electronic device having a map-display application that is coupled to a mapping service and a display for displaying a selected area of the electronic map;
 - determining if coordinates of the MO are within the selected area of the electronic map;
 - if the coordinates of the MO are not within the selected area of the electronic map;

computing distance and travel-related information from a location within the selected area of the electronic map to the MO;

computing a placement position of an OVI referencing the MO on the map-display application;

creating the OVI containing the distance and travel-related information;
and

displaying the OVI on the display at the computed placement position.

REMARKS

Amendment was made to more accurately describe the invention.

Very respectfully,

A handwritten signature in black ink, appearing to read 'Gabriel Jakobson', with a long horizontal flourish extending to the right.

Gabriel Jakobson

ABSTRACT

5 **[126]** A mapping system associated with a social network includes determining that a social networking map object (“MO”) is outside a visible area of a map displayed; calculating the direction, distance and travel-time to the MO (e.g. a social network member, a location, a meeting place, etc.), creating an object vector indicator (“OVI”) and displaying the OVI on a map-display application. The OVI may be displayed on the periphery of the
10 displayed map and may be positioned in the general direction of the MO. The position of the electronic device, as well as a current position of the MO, are factored into the calculations and placement of the OVI. The OVI may include a graphical representation, obtained from the social network, of the MO it references.

15

20

25

30

CLAIMS

What is claimed is:

- 5 **1.** A method for displaying object vector indicators (“OVI”) referencing social-networking related map-objects (“MO”) on an electronic map, comprising:
- providing an electronic device having a map-display application that is coupled to a mapping service and to a social network, and a display for displaying a selected area of the electronic map;
- 10 obtaining a MO from the social network;
- determining that coordinates of the MO are not within the selected area of the electronic map;
- computing distance and travel-related information from a location within the selected area of the electronic map to the MO;
- 15 computing a placement position of an OVI referencing the MO on the map-display application;
- creating the OVI containing the distance and travel-related information; and
- displaying the OVI on the display at the computed placement position.
- 20 **2.** The method of claim 1, wherein the location within the selected area of the electronic map is the center of the selected area of the electronic map.
- 3.** The method of claim 1, wherein the location within the selected area of the electronic map is a location marker.
- 25 **4.** The method of claim 3, wherein the location marker is obtained from the social network.

5. The method of claim 1, wherein the computing the placement position of the OVI step is repeated in response to a change in the position of the MO.
6. The method of claim 1, wherein the computing the placement position of the OVI
5 step is repeated in response to a change in the position of the electronic device.
7. The method of claim 1, wherein the computing the distance-and-travel information includes at least one of the following: an aerial distance to the MO, a travel distance to the MO, a visual indicator pointing in the direction of the MO, and an estimated travel-time to
10 the MO.
8. The method of claim 7, wherein the travel-distance to the MO is computed by selecting a travel route according to various user preferences and travel-route selection algorithms.
15
9. The method of claim 7, wherein the estimated travel-time to the MO is computed by selecting a travel route according to various user preferences and travel-route selection algorithms.
- 20 10. The method of claim 1, wherein the OVI includes a graphical representation of the MO.
11. The method of claim 10, wherein the graphical representation is obtained from the social network.
25
12. The method of claim 1, wherein the OVI includes contact information of the MO.
13. The method of claim 12, wherein the contact information is obtained from the social network.
30

14. The method of claim 12, wherein selecting the contact information facilitates an electronic communication.
15. The method of claim 1, wherein the computing distance-and-travel information step is repeated in response to at least one of the following: a change in the position of the electronic device, a change in the position of the MO, and a change in elapsed time
16. The method of claim 1, wherein the computing distance-and-travel information step and the computing the placement position of the OVI step are repeated in response to a change in travel conditions.
17. The method of claim 1, wherein the computing distance-and-travel information step further comprises:
- obtaining the position of the electronic device;
 - transmitting the position of the electronic device to a remote server; and
 - receiving from the remote server the distance-and-travel information.
18. A method of displaying social-networking information on an electronic map, comprising:
- receiving a list of map objects (“MOs”) from a social network;
 - determining the geographic coordinates of the MOs;
 - determining that the MOs are outside the bounds of an area of the map visible to a user;
 - creating an object vector indicator (“OVI”) for each of the MOs; and
 - displaying the OVIs on the electronic map.
19. The method of claim 18, wherein the creating an OVI step includes calculating a distance, a direction and a travel time from a point on the area of the map visible to the user, to the location of the MO.

20. The method of claim **19**, wherein the point on the area of the map corresponds to the location of the electronic device.

5 **21.** A method for selecting information to display in an electronic map display application coupled with a social network, comprising:

obtaining a map object (“MO”) from a social network;

displaying a first portion of an electronic map generated by the electronic map display application;

10 displaying an object vector indicator (“OVI”);

receiving a user input;

determining that the user input is associated with the OVI;

determining a second portion of the electronic map; and

displaying the second portion of the electronic map by the electronic map display application.

15

22. The method of claim **21**, wherein the determining the second portion of the electronic map comprises:

determining the MO referenced by the OVI;

20 determining coordinates of the MO;

panning the electronic map such that the center of the electronic map corresponds approximately to the coordinates of the MO.

23. The method of claim **22**, wherein the displaying the second portion of the electronic map includes animation.

25

24. The method of claim **21**, wherein the animation includes panning the electronic map in small intervals along a travel route until the center of the electronic map corresponds approximately to the coordinates of the MO.

30

25. The method of claim 24, wherein the travel route spans a distance from a point on the first portion of the electronic map to the MO.

26. A method for creating and displaying an object vector indicator (“OVI”) on an electronic map of a global navigation system (“GPS”) device, comprising:

- a) providing the GPS device having a map display application that is coupled to a social network and a display for displaying a portion of the electronic map;
- b) receiving coordinates of the GPS device;
- 10 c) receiving information on a map-object (“MO”) from the social network;
- d) determining coordinates of the MO from the received information;
- e) determining a range of coordinates inclusive of the displayed portion of the electronic map;
- 15 f) calculating that the coordinates of the MO are not within the range of coordinates of the displayed portion of the electronic map;
- g) creating the OVI to reference the MO;
- h) calculating the placement of the OVI on the display; and
- i) displaying the OVI on the display.

20

27. The method of claim 26, wherein the step of creating the OVI includes:
calculating the direction, distance and travel-time from the position of the electronic device to the MO; and
including the calculated data in the OVI.

25

28. The method of claim 26, wherein the step of creating the OVI includes:
obtaining a graphical image from the social network and including at least a portion of the graphical image in the OVI.

30

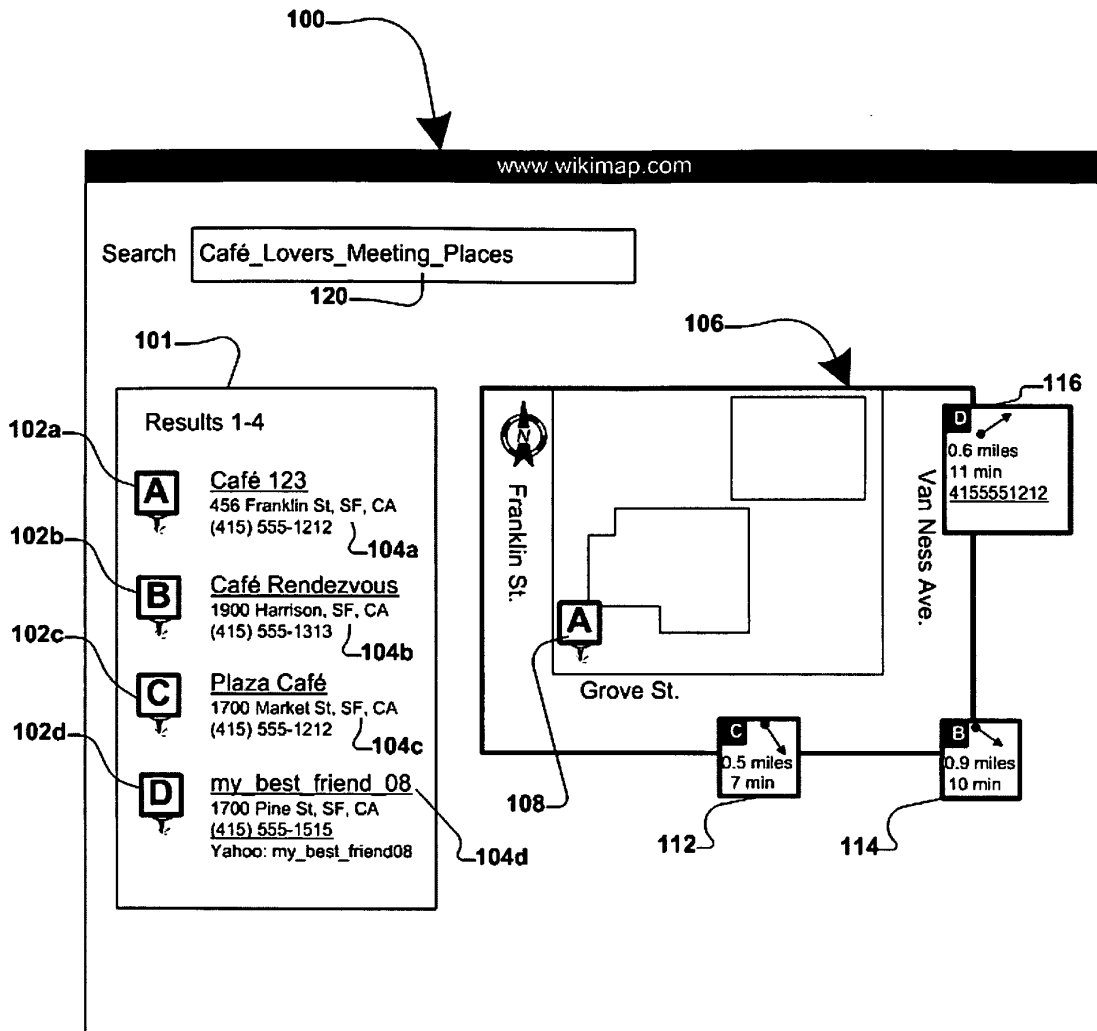


FIG. 1

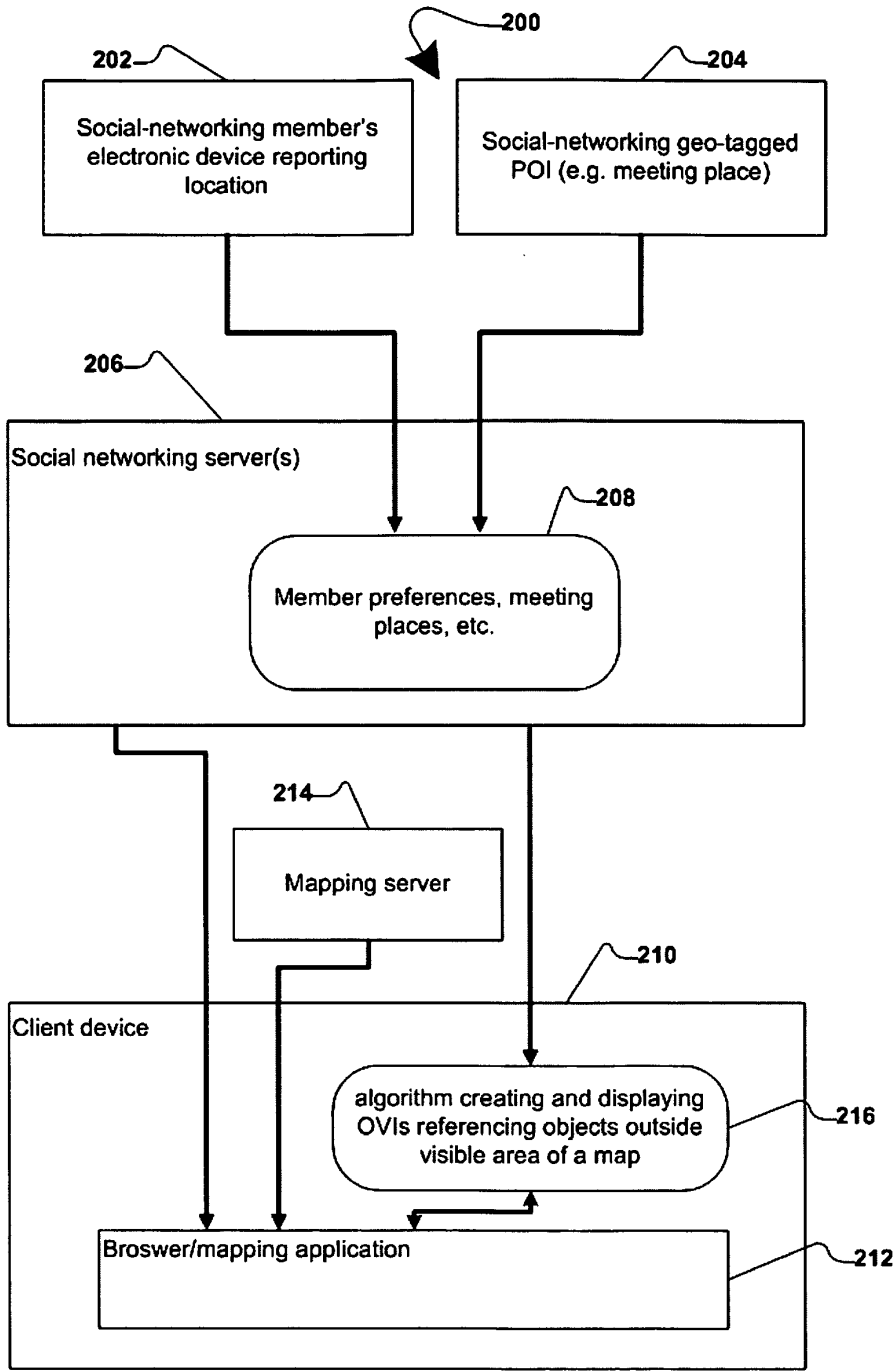


FIG. 2A

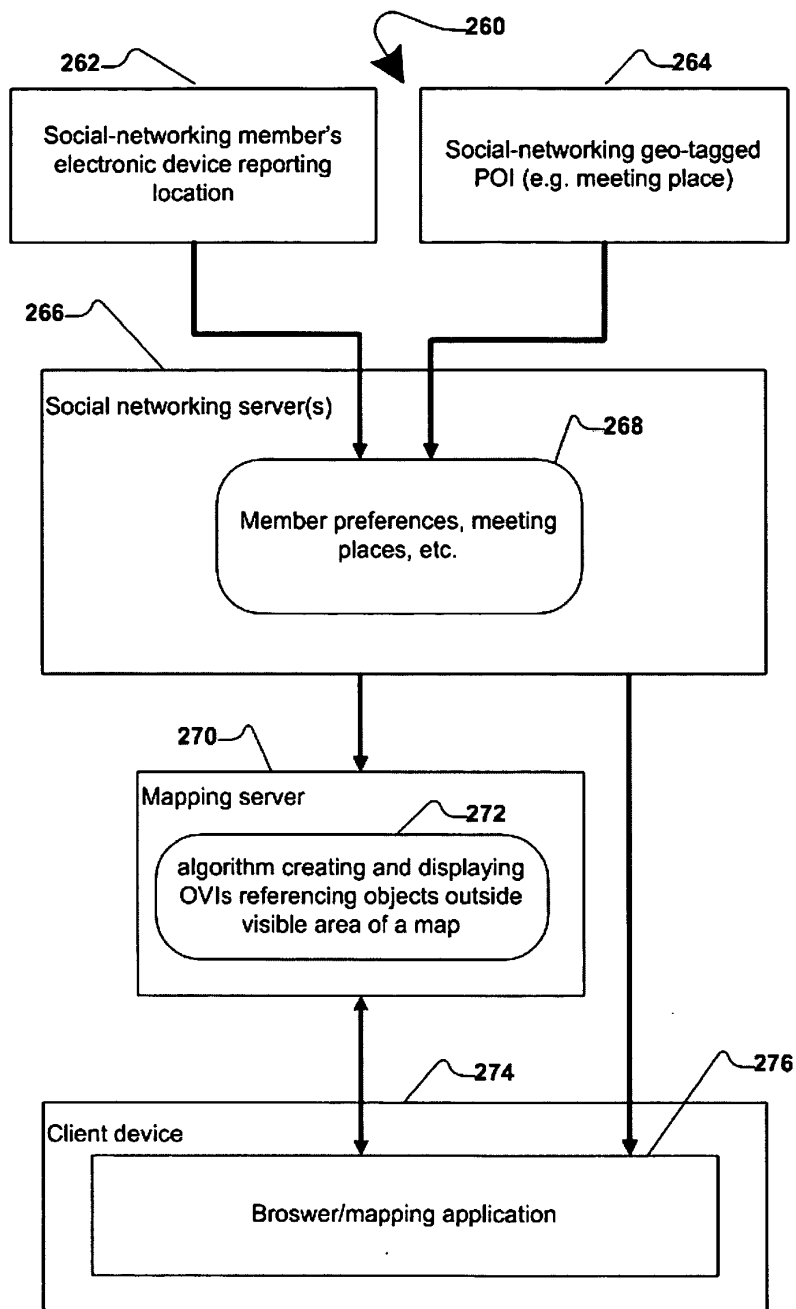


FIG. 2B

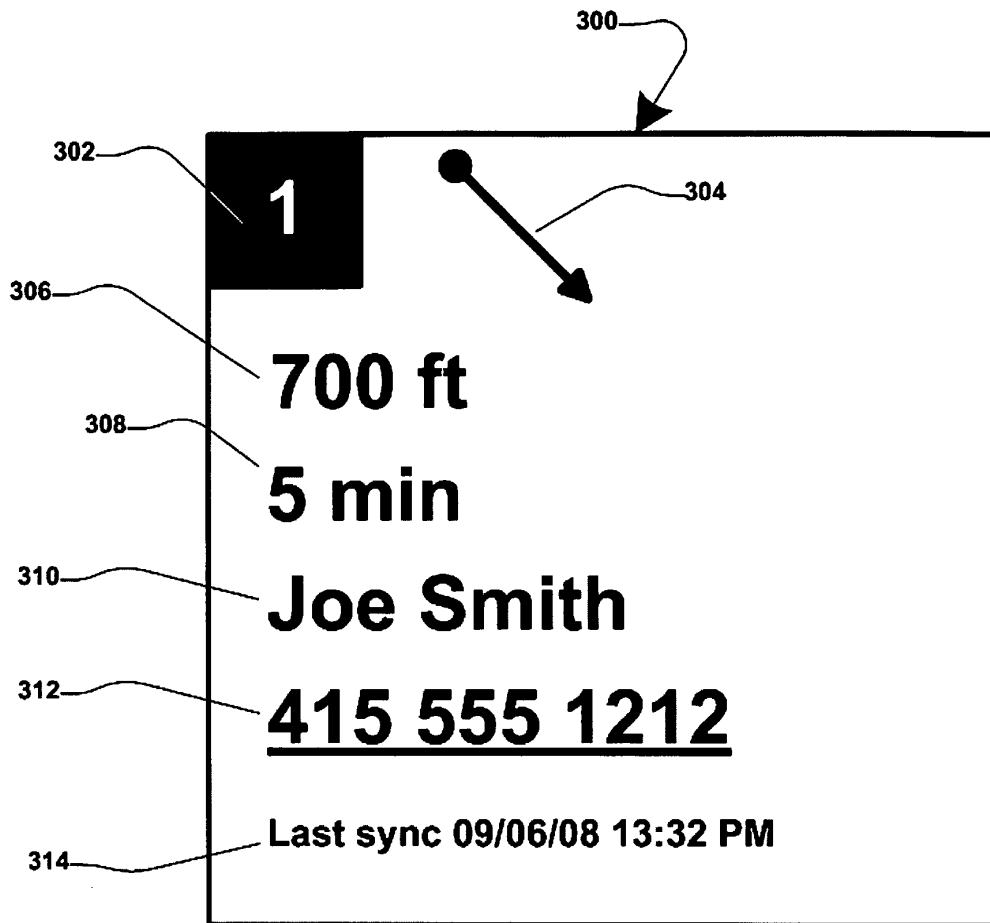


FIG. 3A

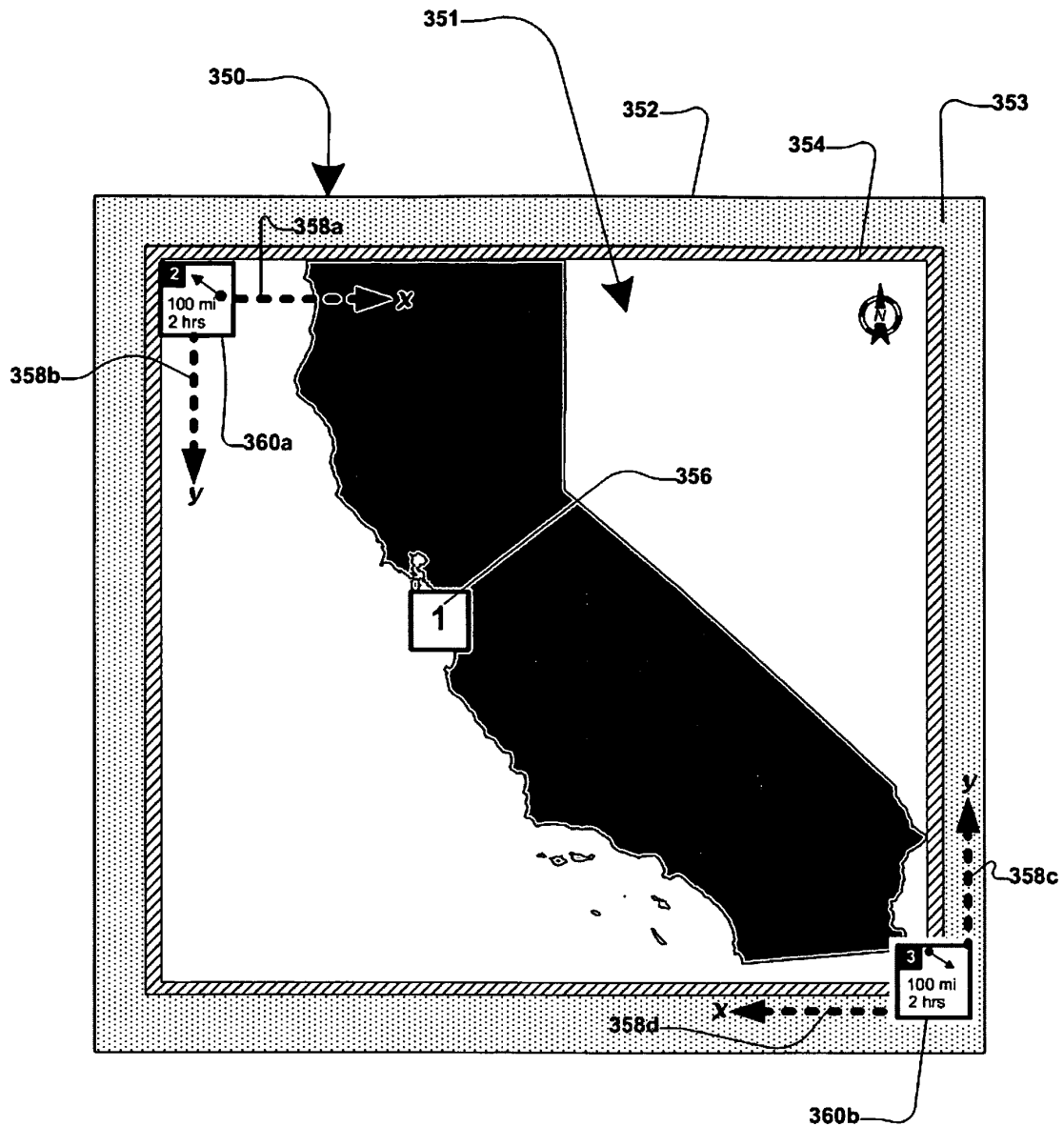


FIG. 3B

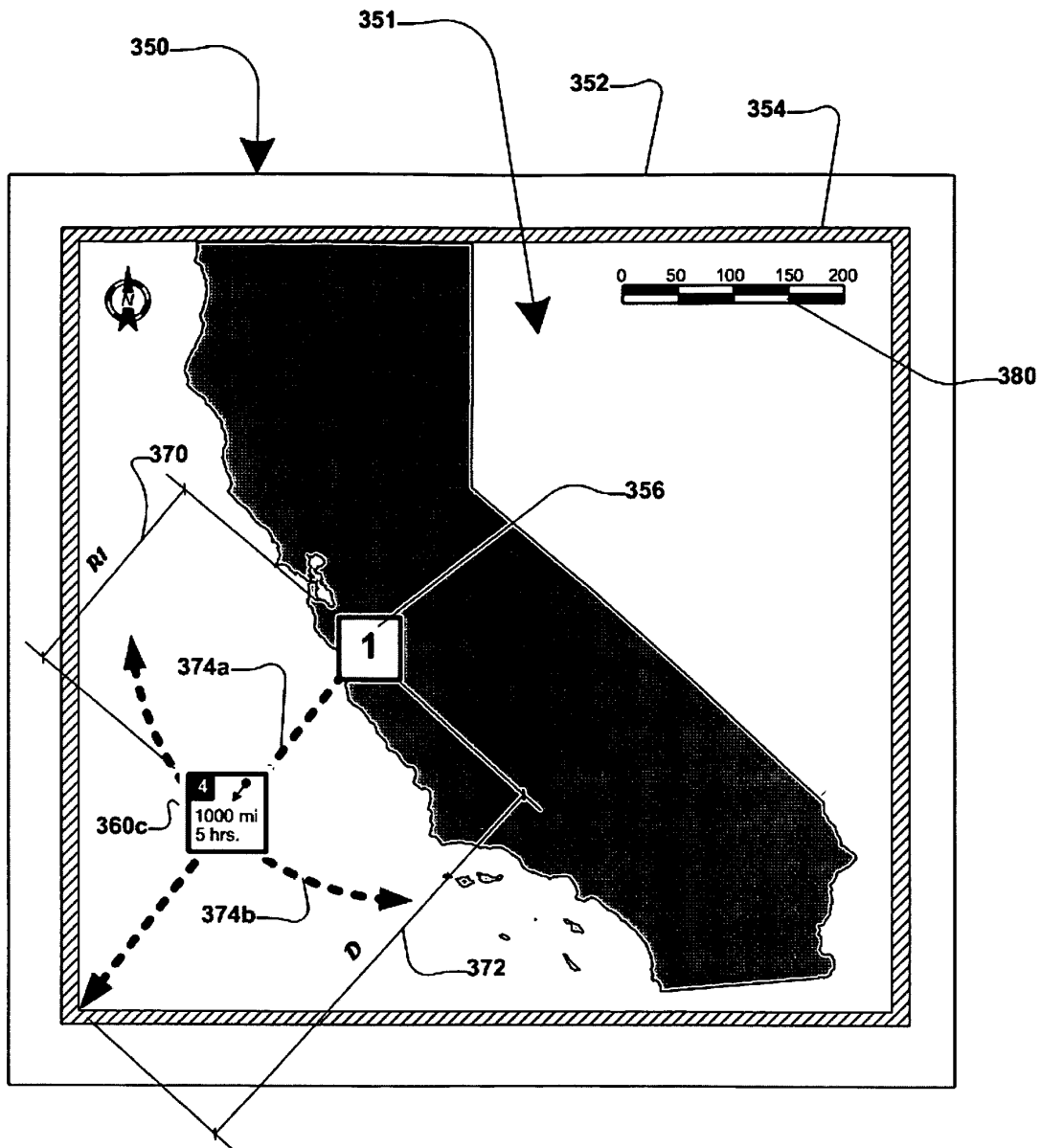


FIG. 3C

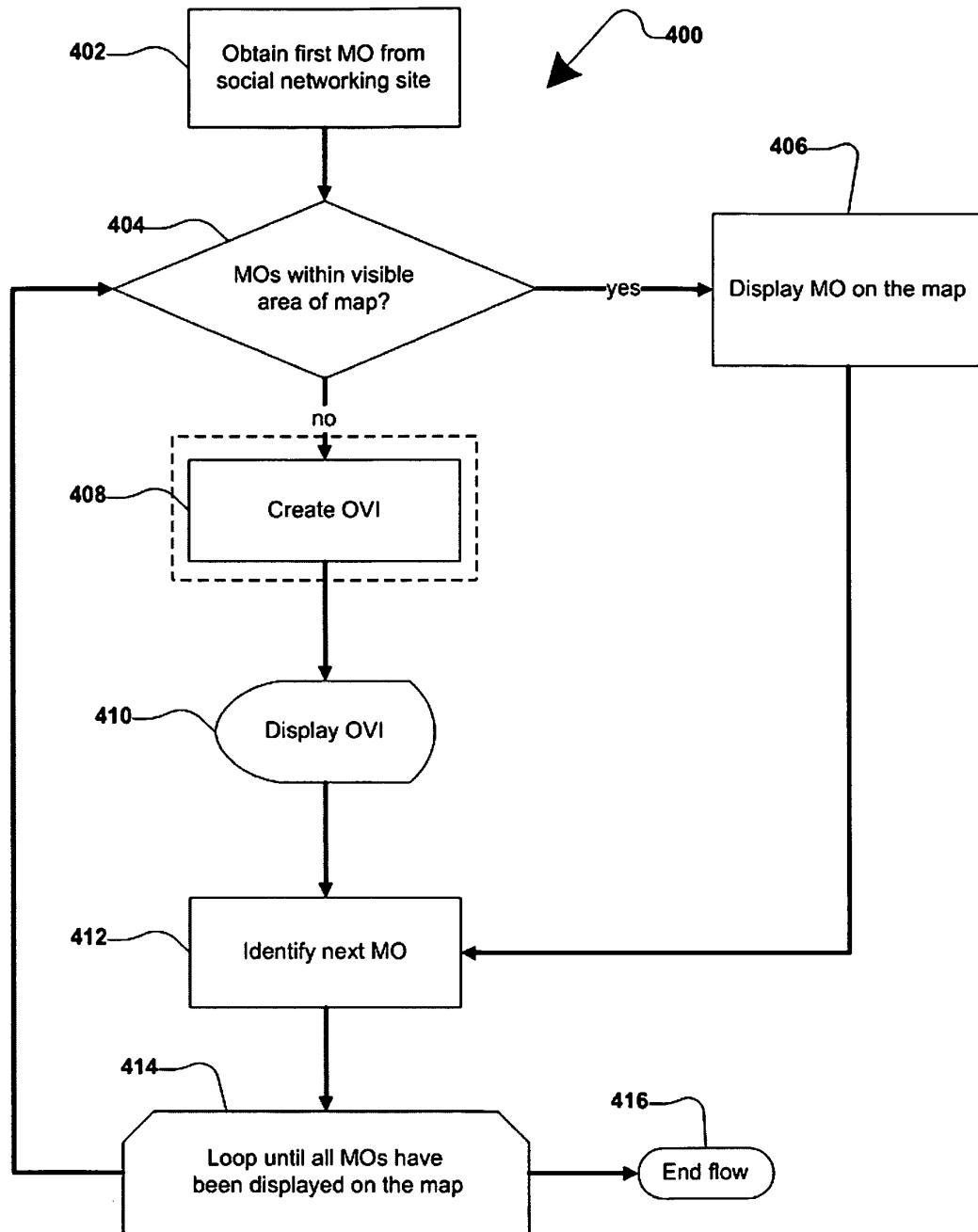


FIG. 4A

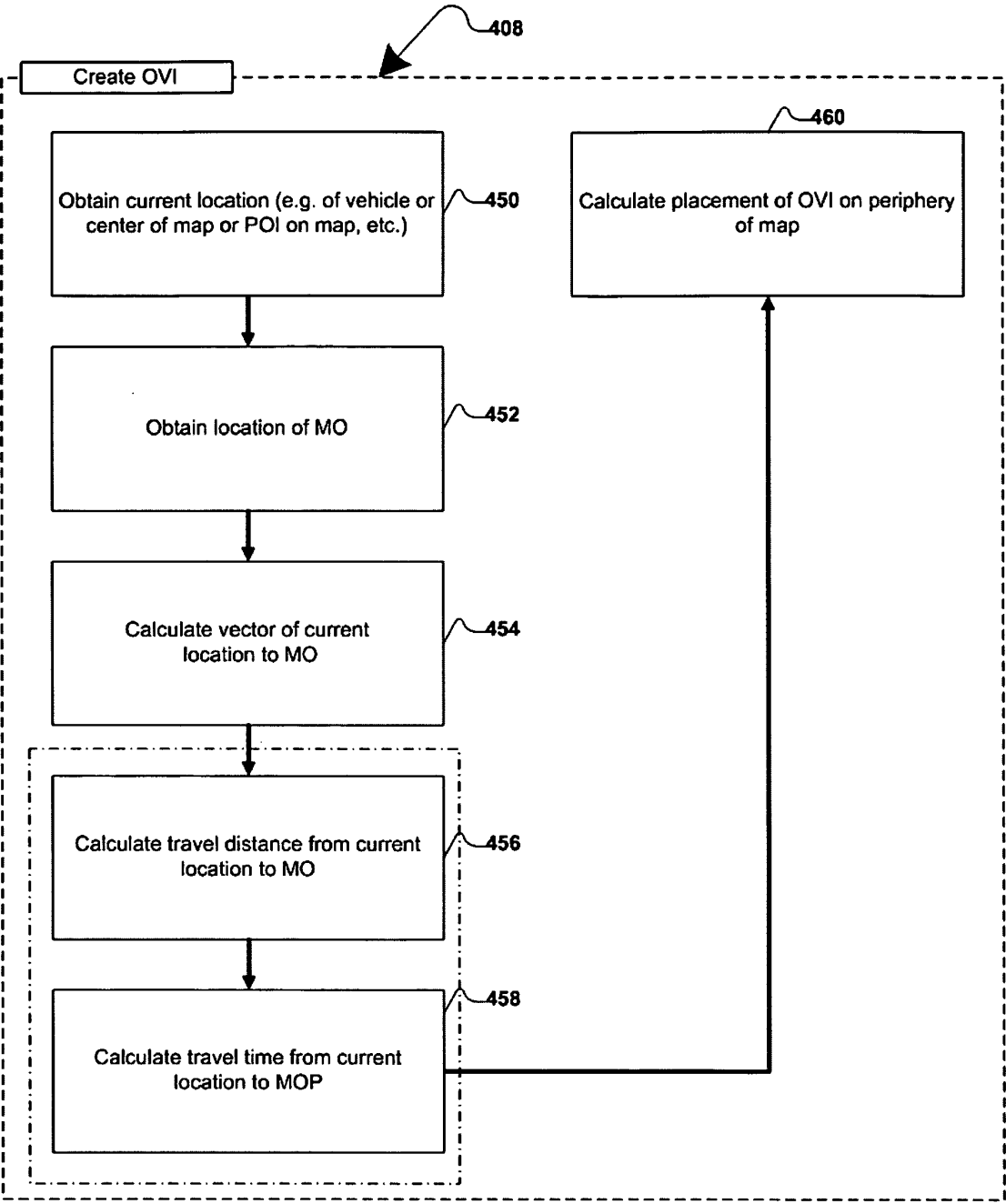


FIG. 4B

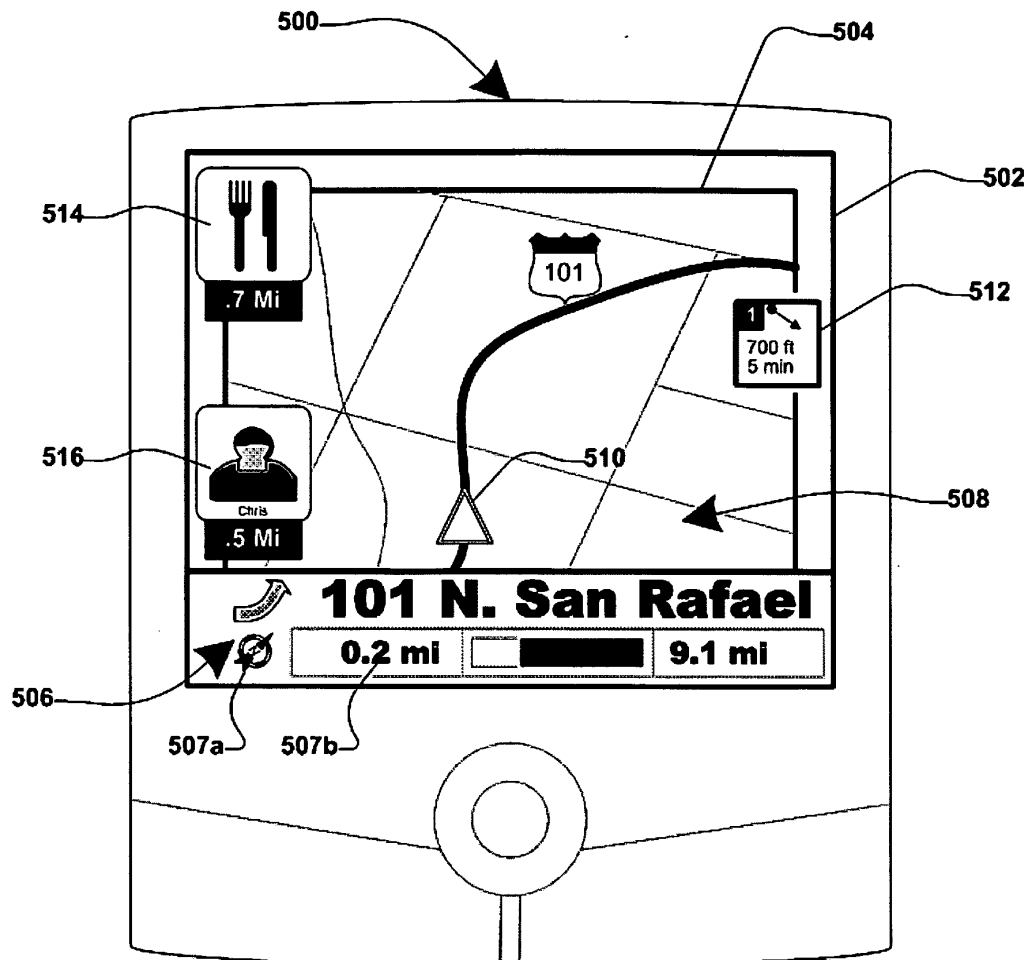


FIG. 5A

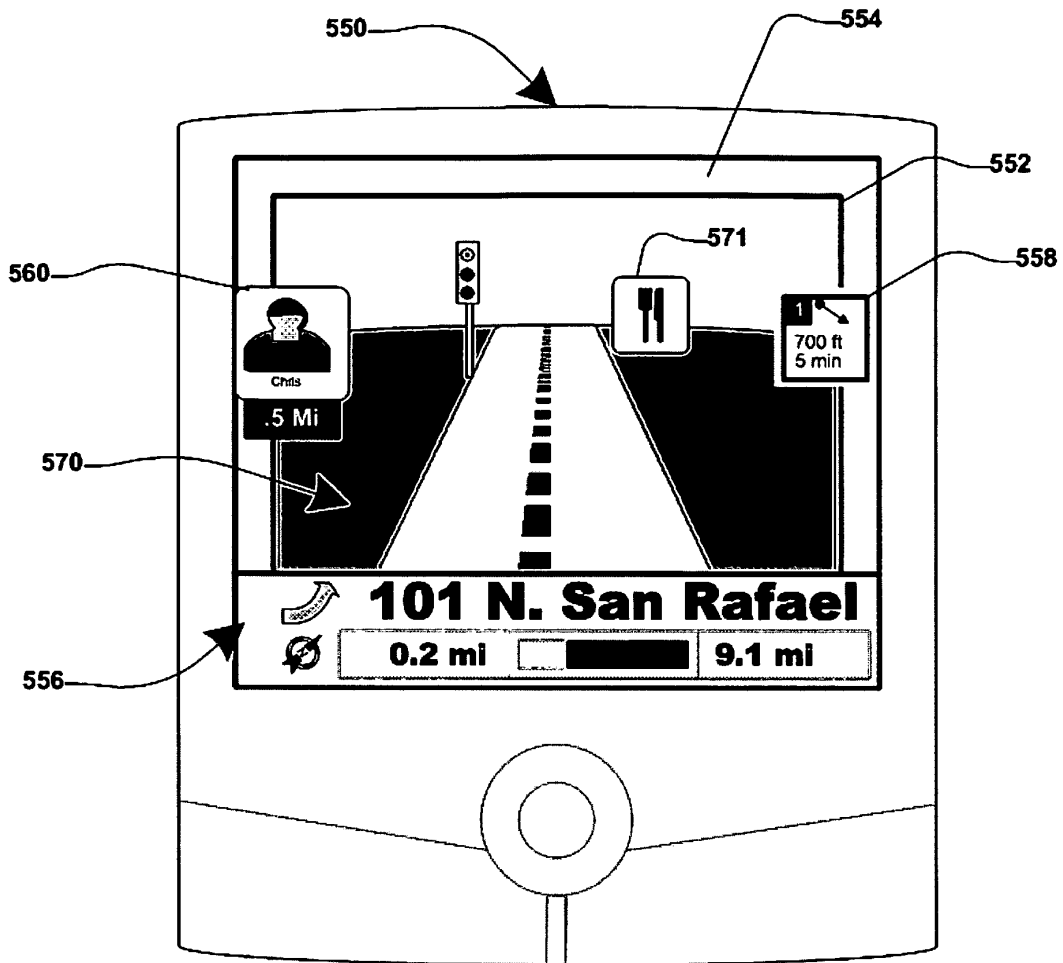


FIG. 5B

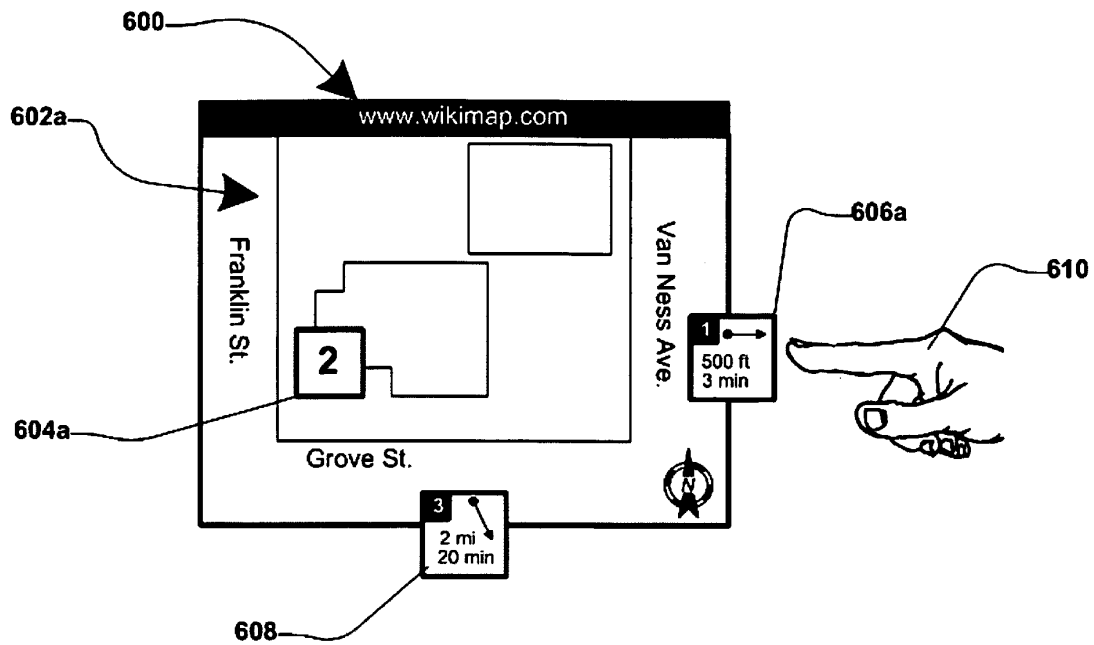


FIG. 6A

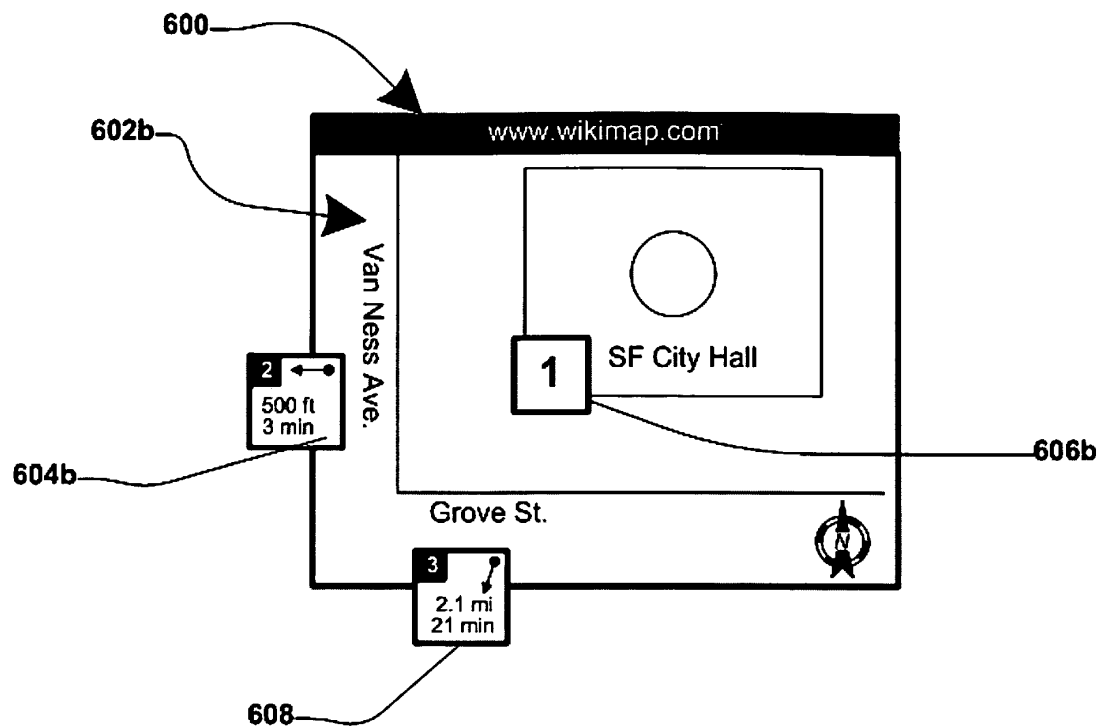


FIG. 6B

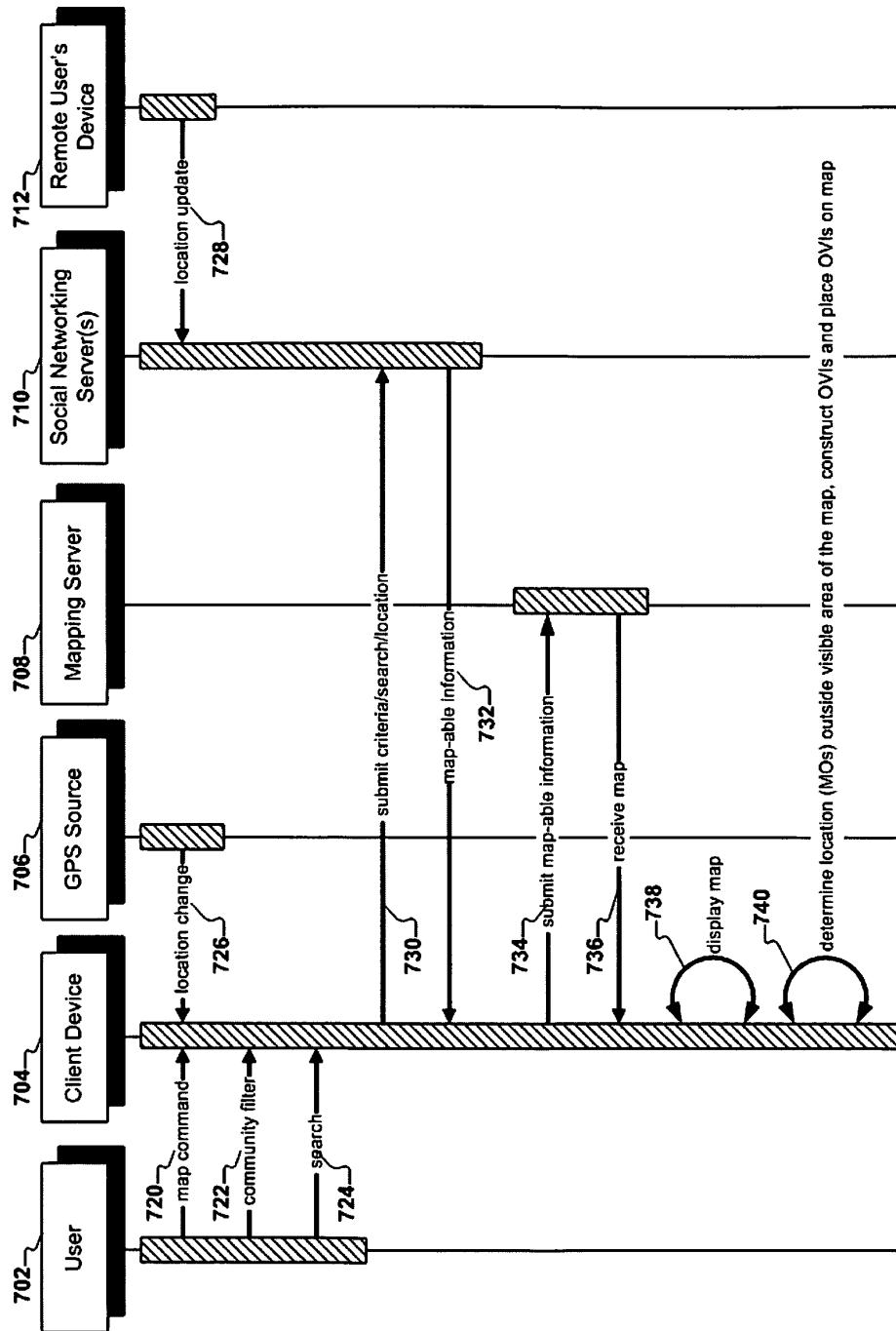


FIG. 7

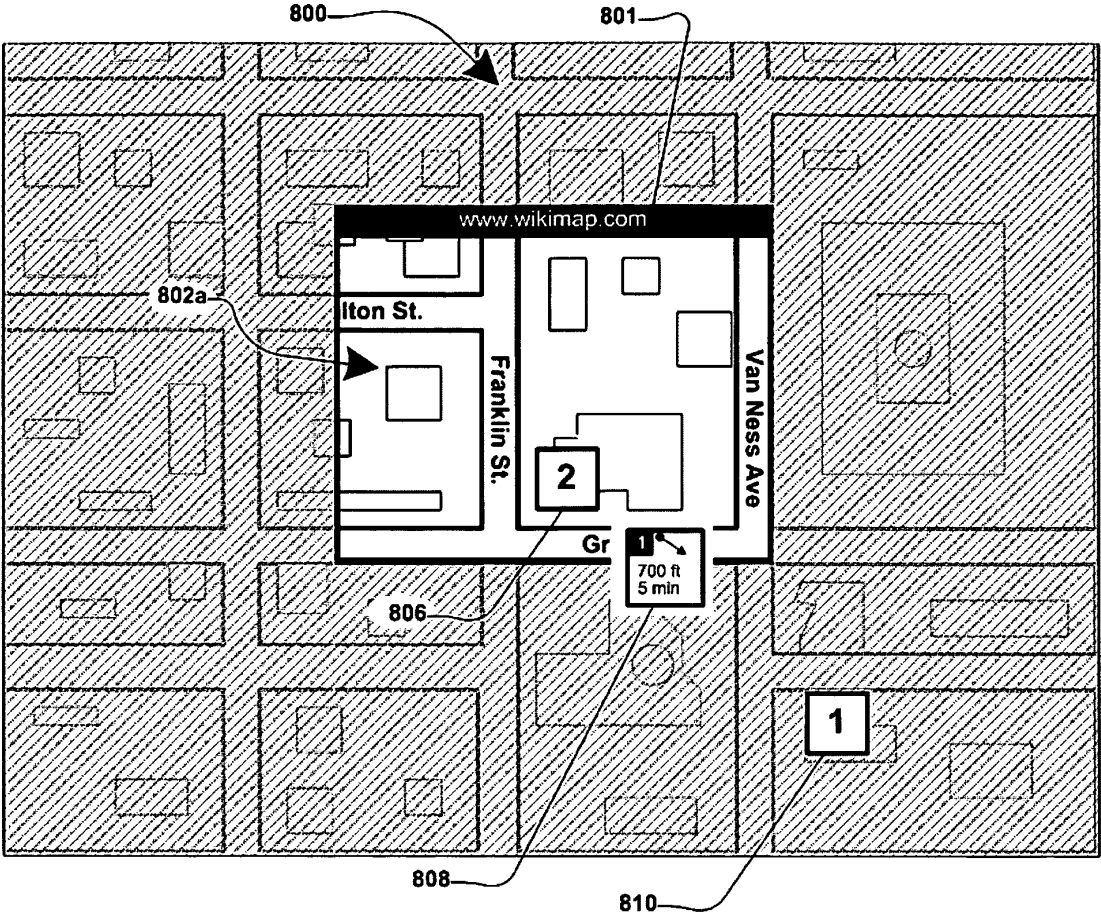


FIG. 8A

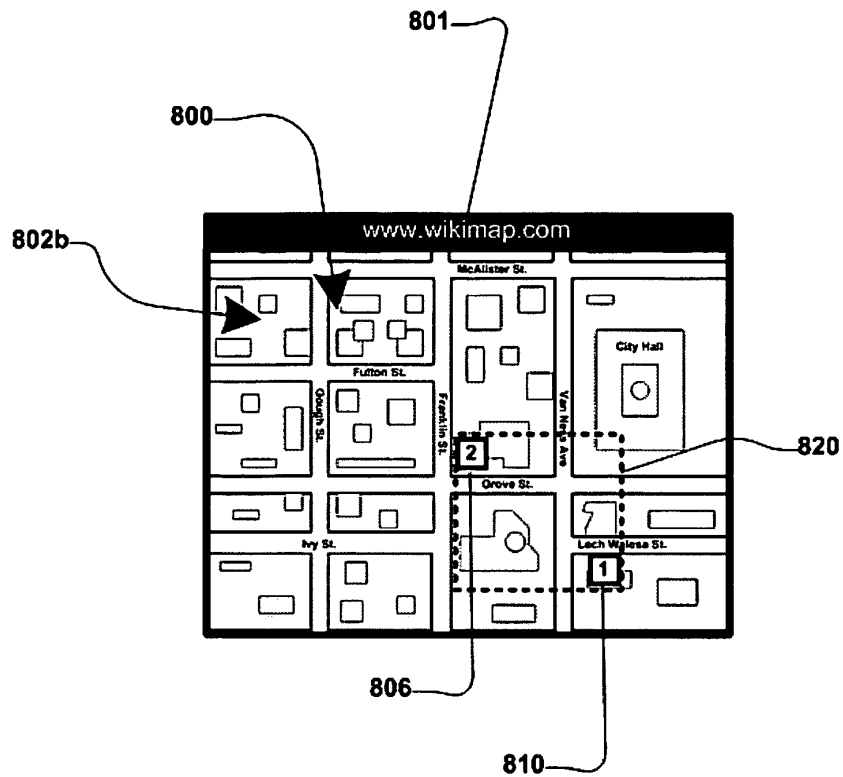


FIG. 8B

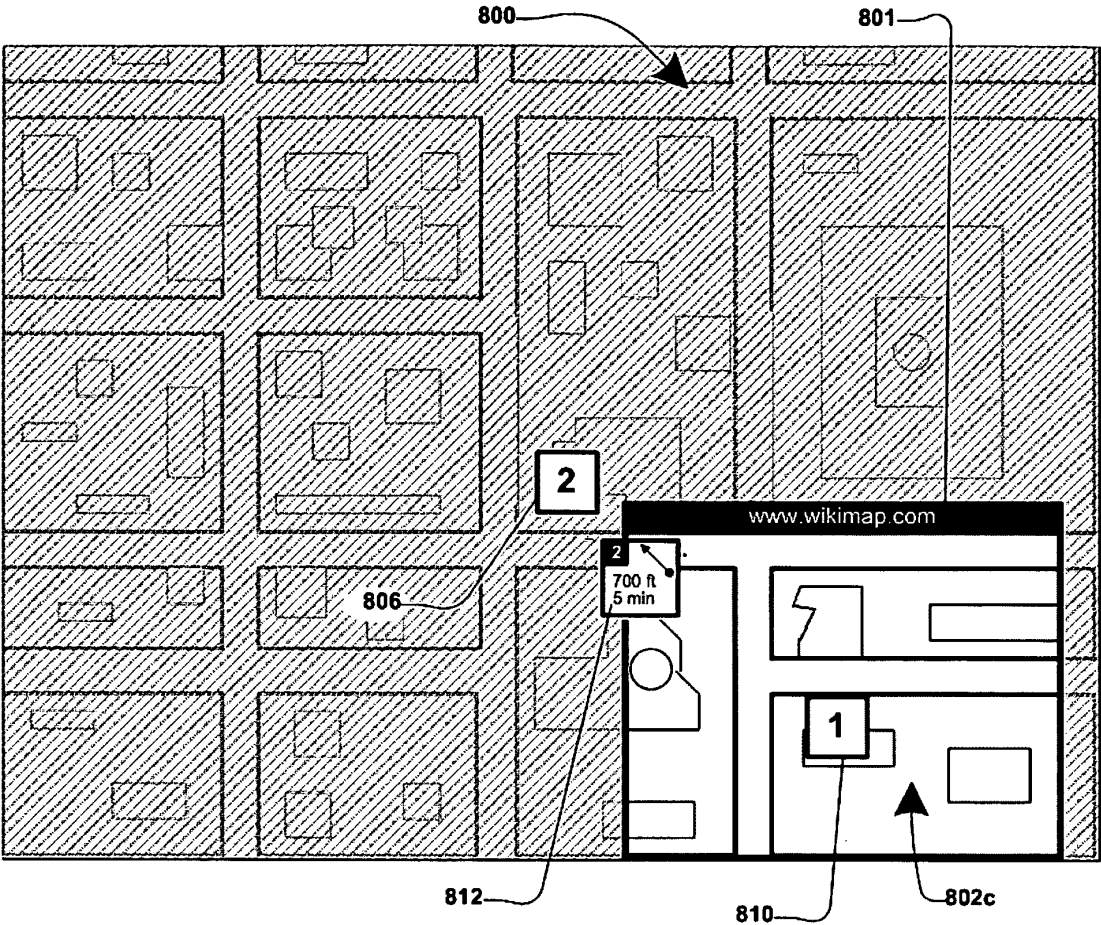


FIG. 8C

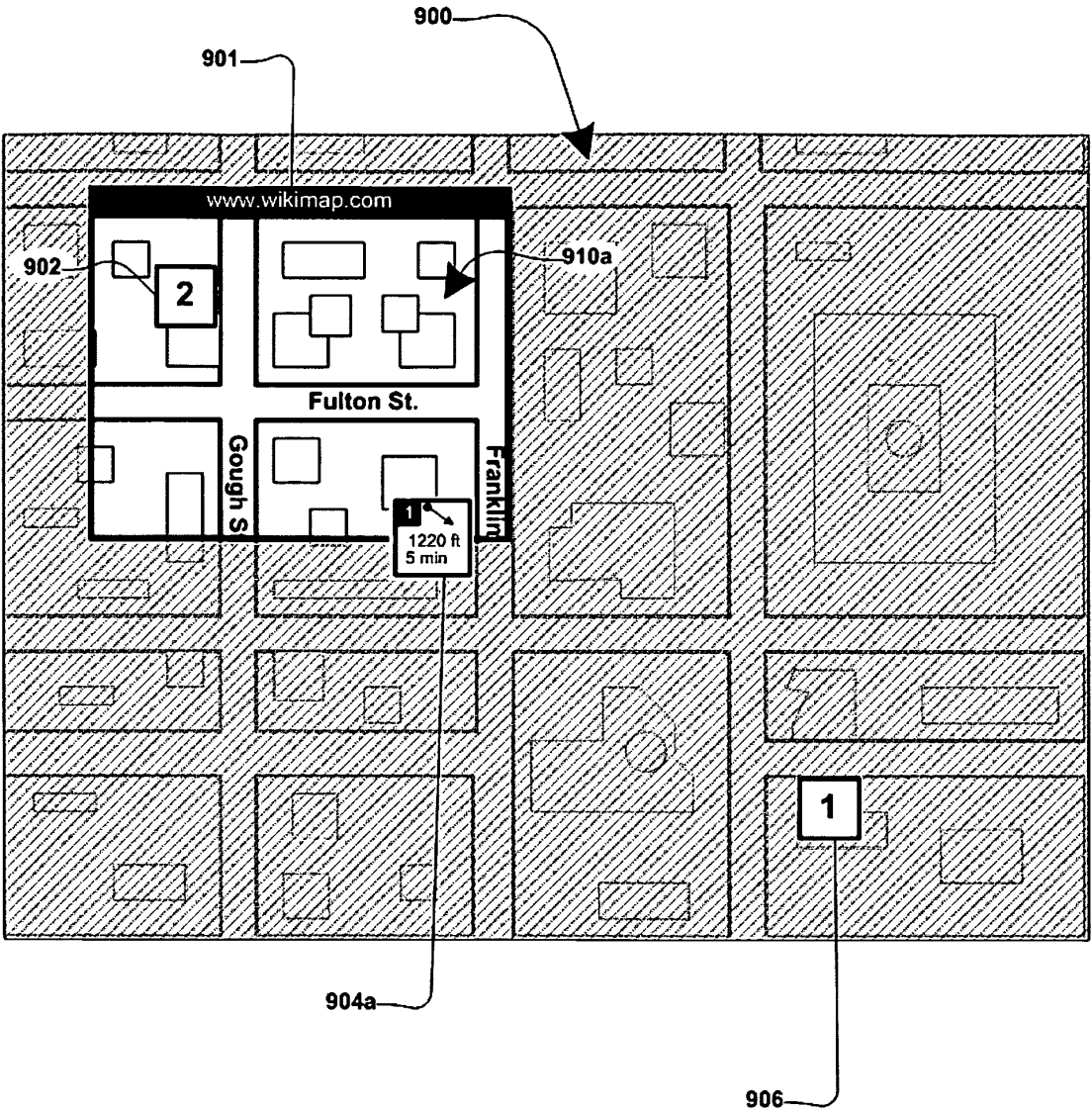


FIG. 9A

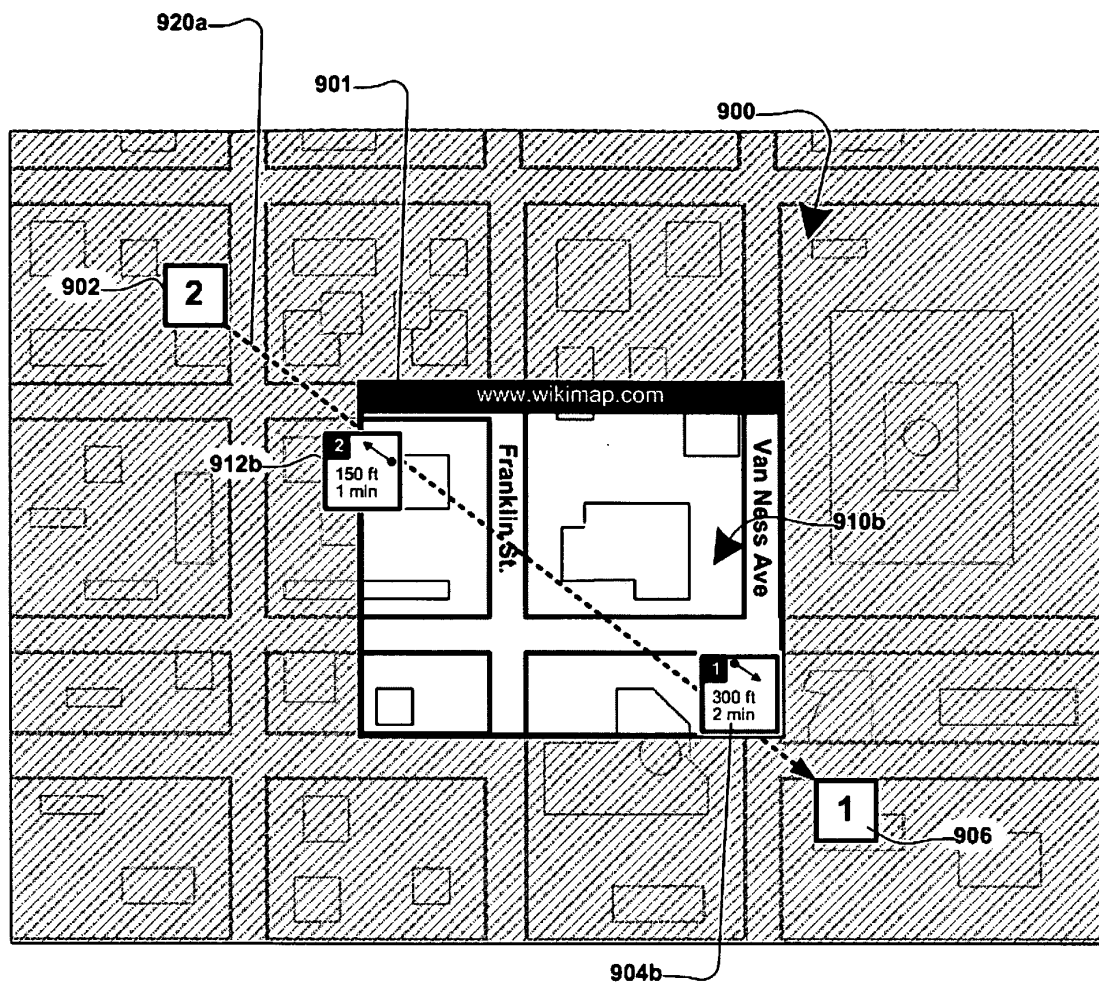


FIG. 9B

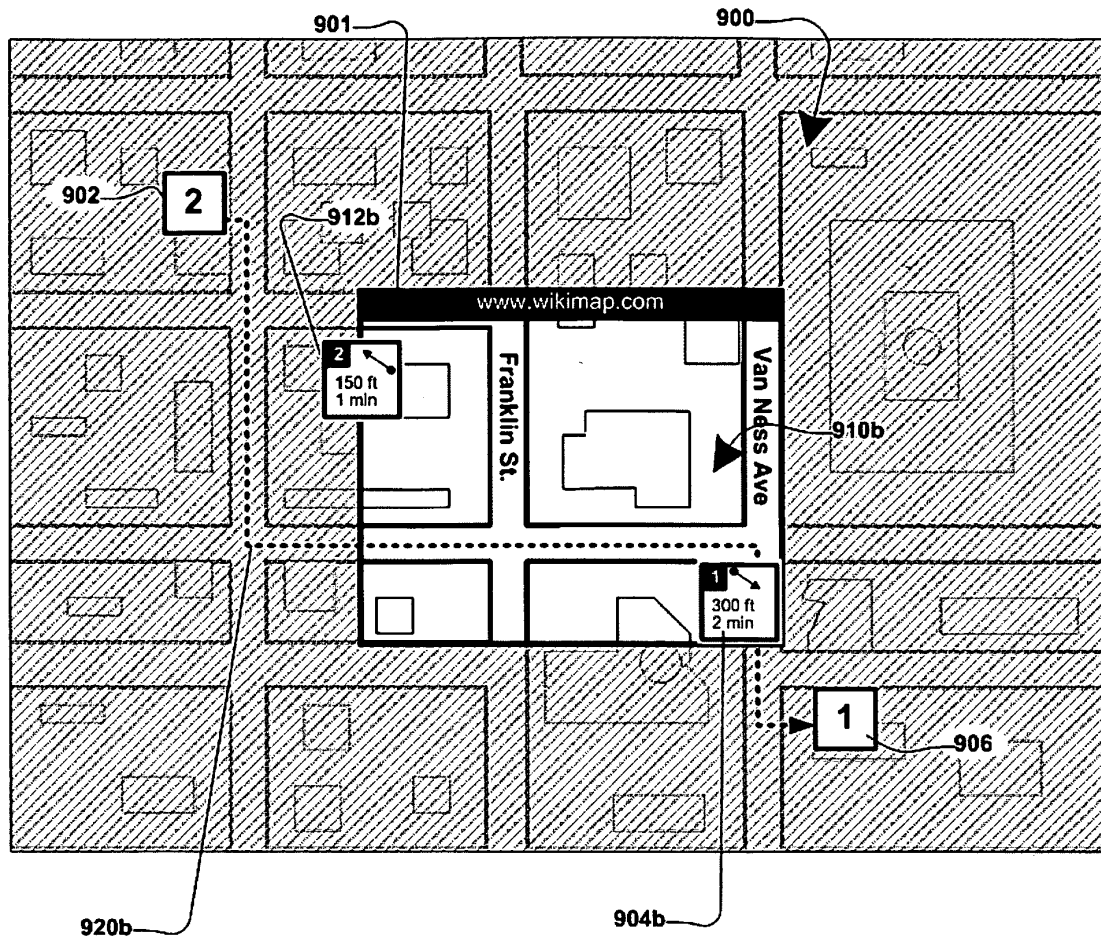


FIG. 9C

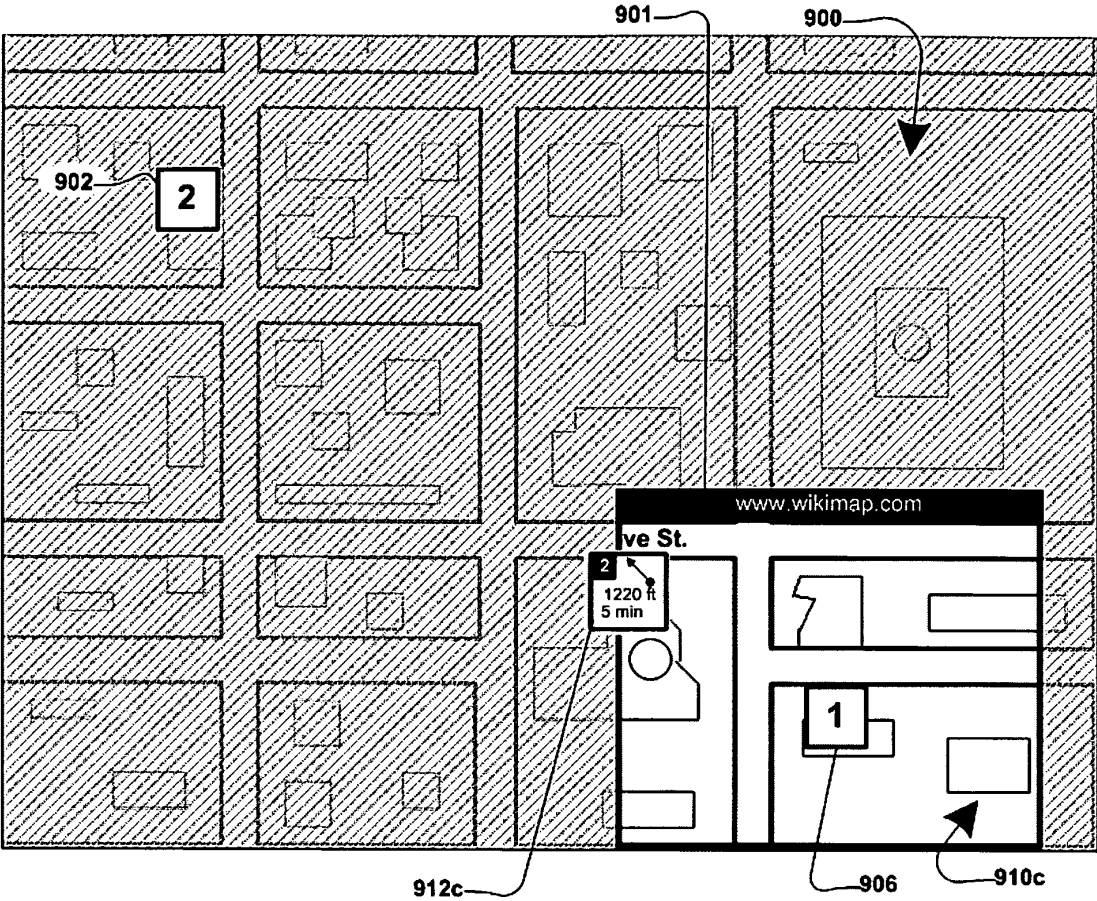


FIG. 9D

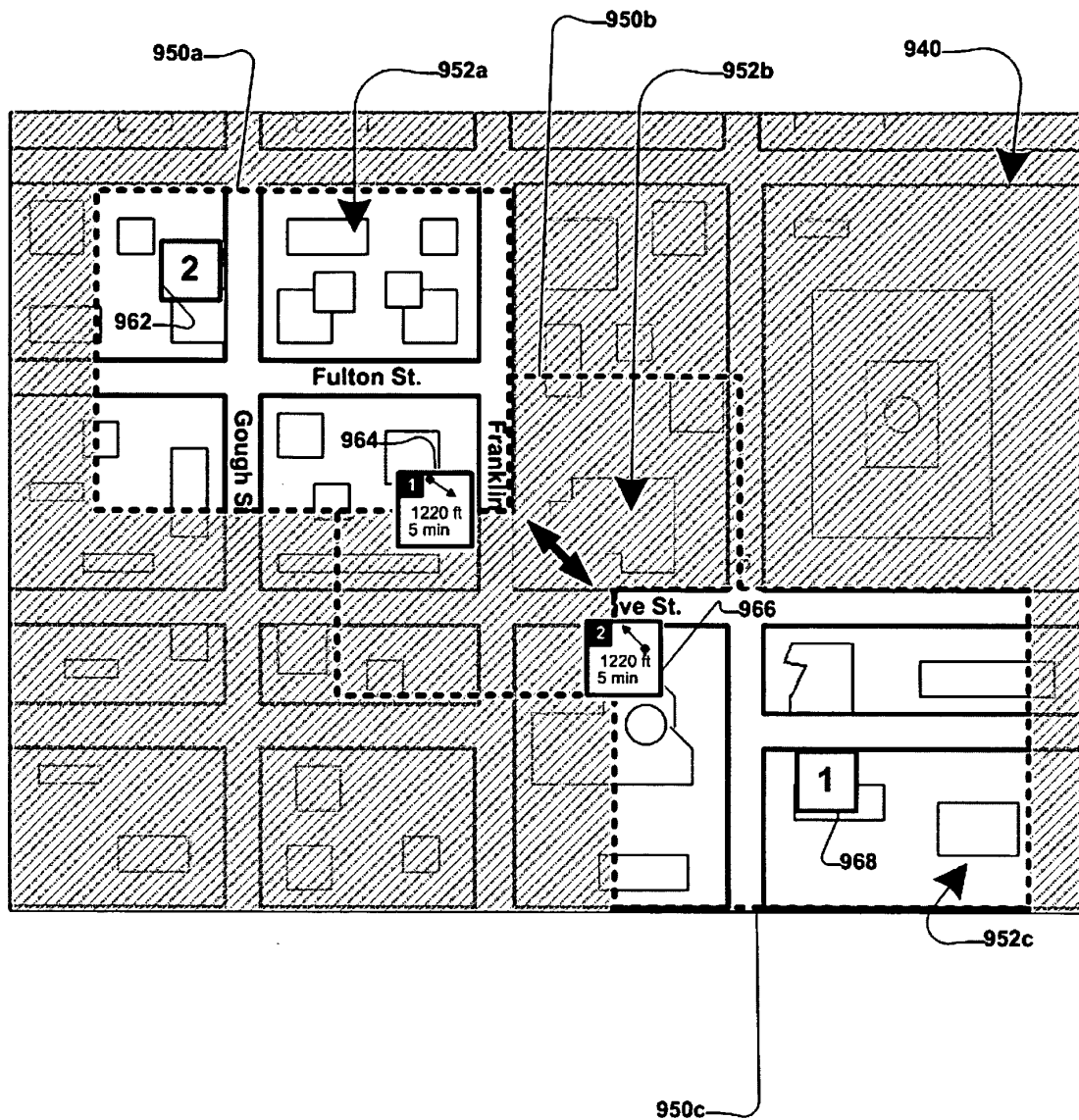


FIG. 9E

Document Code: IMIS

Notice of Fee Due

Date: 11-17-08

Application Number: 12291802

A fee is due for the attached document for the reason indicated below. Please check the application for the appropriate authorization to charge a deposit account. If an authorization is present, please charge the appropriate fee*. If an authorization is not present, notify the application of the fee deficiency.

***If the fee due is for any of the filing fees, check for authorization to charge the surcharge. If authorization is present, charge the surcharge for late payment of the filing fees as well.**

☒ Insufficient payment by check or money order.

☐ Insufficient funds in deposit account _____ at _____ (time).

☐ Insufficient payment by credit card.

☐ Declined credit card.

☐ No authorization to charge a deposit account.

Fee code(s) to be applied:

2202 \$ 52

Amount in holding fee code:

1506

1622/2622 \$ 9

1999

Total remaining due from applicant:

\$ 43

RAM Operator mw

Rev. 12/27/07

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.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**



Declaration
Submitted
With Initial
Filing

OR



Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket
Number

WWOHANA

First Named Inventor

Gabriel Jakobson

COMPLETE IF KNOWN

Application Number

Filing Date

Art Unit

Examiner Name

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method and System for Displaying Social Networking Navigation Information

(Title of the Invention)

the specification of which



is attached hereto

OR



was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

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

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐



Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

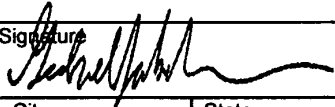
[Page 1 of 2]

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 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to:	☐ The address associated with Customer Number:	☐ OR ☒ Correspondence address below	
Name Atida LLC Attn: Steven Rueben			
Address 3862 Ruskin Street			
City Las Vegas	State NV	ZIP 89147	
Country USA	Telephone 702-419-6460	Email stevenslip@aol.com	
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. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
NAME OF SOLE OR FIRST INVENTOR:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any]) Gabriel		Family Name or Surname Jakobson	
Inventor's Signature 		Date 11/10/08	
Residence: City Las Vegas	State NV	Country USA	Citizenship USA
Mailing Address 412 Proud Eagle Lane			
City Las Vegas	State NV	Zip 89144	Country USA
☐ Additional inventors or a legal representative are being named on the supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.			

[Page 2 of 2]

SCORE Placeholder Sheet for IFW Content

Application Number: **12291802**

Document Date: **11/13/2008**

The presence of this form in the IFW record indicates that the following document type was received in paper and is scanned and stored in the SCORE database.

- Drawings

Images of the original documents are scanned in gray scale or color and stored in SCORE. Bi-tonal images are also stored in IFW. Defects visible in both IFW and SCORE are indicative of defects in the original paper documents.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface.
- Other USPTO employees can bookmark the current SCORE URL (<http://es/ScoreAccessWeb/>).
- External customers may access SCORE content via the Public and Private PAIR interfaces.

Form Revision Date: December 8, 2006

5

Patent Application of

Gabriel Jakobson

For

10

TITLE

Method and System for Displaying Social Networking Navigation Information

CROSS-REFERENCE TO RELATED APPLICATIONS

15

[001] This application is a continuation-in-part of, and claims priority to, U.S. patent application Ser. No. 12/151,827 filed on May 8, 2008, titled “Method and System for Displaying Navigation Information on an Electronic Map”. The disclosure of the prior application is considered part of and is incorporated by reference in the disclosure of this application.

20

[002] FIELD OF INVENTION

[003] The present invention relates generally to social networking and navigation. More particularly, the present invention relates to displaying information associated with social-networking map-objects (e.g. points-of-interest, way-points, social gathering places, member locations, etc.) that are outside the visible area of a map, within a map-display application.

[004] BACKGROUND OF THE INVENTION

[005] Popular social networking websites include Facebook™, MySpace™, LinkedIn™, Orkut™, Bebo™, Yahoo! 360™, Hi5™, Friendster, Cyworld™, Windows Live Spaces™, etc. A common facet of social networking is the ability to display objects of common interest on an electronic map. For example, locations of members and meeting places may be displayed on a map. Social-networking related objects, displayed on a map, may be demarcated by symbols indicating points-of-interest (“POI”), way-points (“WP”), business locations, places of interest, members’ residences, members’ meeting places, members’ current locations, members’ places of employment, etc. (collectively referred to inhere as map-objects, or (“MO”)) For example, a user may perform a search for members’ meeting places and the search results may be displayed as symbols on a map, corresponding to the geographic location of the meeting places in the result set of the search. In another common example, a user may request driving directions between social-networking related MOs, in response to which way-points may be displayed on the map, corresponding to geographic points along the plotted route of the driving direction.

[006] Common mapping-related functionality includes “zoom in” and “zoom out”, which allows the user to see a smaller region at a greater level of detail, and a larger region in less detail, respectively. At present, one or more MOs to be displayed on a map may be outside an area of the map visible to the user (e.g. when the user zooms into an area of the map not including the MO.) The user often may not be able to discern the direction and distance to the MO which is outside the visible area of the map, without (1) panning the map in the general direction of the MO until the visible area of the map includes the MO, and/or (2) zooming out until the visible area of the map includes the MO, and/or (3) in the case of a menu or a hyperlinked-list item referencing the MO, selecting the reference to the MO from the menu/the hyperlinked list item, in response to which the map automatically zooms/pans to include the MO.

SUMMARY OF THE INVENTION

[007] The present invention provides various methods, systems and apparatus for displaying information related to social networking on an electronic map. Social-networking related information, collectively referred to herein as MOs, which are outside a visible area of the map, may be referenced by displaying object vector indicators (“OVI”). The visible area of the map may be determined by a map-display application displaying the map. MOs which are outside the visible area of the map (e.g. in response to a user’s zooming into an area of the map, or panning the map--resulting in the exclusion of an area of the map containing a MO; or MOs generated in response to a user’s search query and/or WPs as part of driving directions, etc., which are outside the visible area of the map) may be referenced by displaying OVIs.

[008] An OVI may be displayed by the map-display application in conjunction with the area of the map displayed by the map-display application. In one embodiment, the OVI may be displayed at the periphery of the area of the map. The OVI may include information referencing the MO, as well as information on the MO’s direction, distance, travel-time to the MO, estimated-time-of-arrival, etc. In various embodiments the MO’s direction, distance, travel time, etc., may be calculated from the current geographic position of the user (e.g. determined via GPS); or alternatively, from an MO on the area of the map visible to the user, that is closest to the center of the visible area of the map; or from the MO selected by the user, etc. The OVI’s position may change or be changed to correlate with the respective positions of the user and the MO referenced by the OVI. Information included in the OVI may change to correlate with the respective positions of the user and the MO the OVI references. An OVI may include symbols indicating the type of MO referenced, and may change in appearance, including a change in the information the OVI displays, in response to various factors such as a change in the coordinates of the user using the map-display application.

DESCRIPTION OF THE DRAWINGS

[009] For a more complete understanding of the present invention and further advantages thereof, references are now made to the following Detailed Description, taken in conjunction with the drawings, in which:

5 [010] **FIG. 1** is a generalized block diagram illustrating displaying object vector indicators (“OVI”) associated with a map which is displaying social networking information, according to one embodiment of the present invention.

[011] **FIGs. 2A** and **2B** are generalized block diagrams illustrating the creation of OVIs associated with a social network, displaying information on a map on a client device,
10 according to various embodiments of the present invention.

[012] **FIGs. 3A, 3B** and **3C** are a generalized block diagrams illustrating the appearance and positioning of object vector indicators (“OVI”), according to various embodiments of the present invention.

[013] **FIGs. 4A** and **4B** are generalized flow diagrams illustrating the creation and
15 displaying of OVIs from data in a social network, according to various embodiments of the present invention.

[014] **FIGs. 5A** and **5B** are generalized block diagrams illustrating displaying object vector indicators (“OVI”) in GPS navigation devices, according to one embodiment of the present invention.

20 [015] **FIGs. 6A** and **6B** are generalized block diagrams illustrating displaying and utilizing OVIs to move around a map (i.e. pan a map), according to one embodiment of the present invention.

[016] FIG. 7 is a generalize block diagram illustrating various communications between a client device and a social network, allowing a map with OVIs to be created and displayed, according to one embodiment of the present invention

5 [017] FIGs. 8A, 8B and 8C are generalized block diagrams illustrating displaying object vector indicators (“OVI”) and utilizing OVIs to pan around a map in an automated fashion, according various embodiments of the present invention.

[018] FIGs. 9A, 9B, 9C, 9D and 9E are generalized block diagrams illustrating various methods for transitioning a region of a map displayed, in conjunctions with OVIs, to allow a user to visualize the path between location markers, according to various embodiments of the
10 present invention.

[019] DETAILED DESCRIPTION

[020] FIG. 1 is a generalized block diagram illustrating displaying object vector indicators (“OVI”) associated with a map which is displaying social networking information, according to one embodiment of the present invention. A map display application 100 (e.g. an internet
15 browser), on a computing device (e.g. a personal computer, a personal digital assistant, a cellular phone, etc.) may display a visible area of a map 106. The visible area of a map 106 may represent a small portion of a much larger virtual map—while the larger virtual map (e.g. the entire globe, continent, state, city, etc.) may be outside the display area and not visible to the user, the portion comprising the visible area of a map 106, may be visible to the
20 user. The visible area of a map 106 may include location markers denoting social networking points-of-interest (“POI”) visible to the user. The map-display application 100 may also include references to location markers outside a visible area of a map 106.

[021] For example, the user may search a social network with a query “*Cafe-Lovers-Meeting-Places*” 120. In response to the user query 120, the visible area of a map 106 may
25 be rendered and a resulting list of locations 101 may be displayed

[022] In the prior art, the resulting list of locations **101** may include location marker identifiers **102a-102d**, corresponding to the location markers’ names and descriptions **104a-104d**, respectively. The user may select a location marker identifier “*A*” **102a** in response to which the visible area of a map **106** may re-render and/or zoom and/or pan in a manner
5 allowing the corresponding location marker “*A*” **108** to be visible on the visible area of a map **106**. The location marker “*A*” **108** on the visible area of a map **106** may correspond to the geographic location of the address of “*Café 123*” which is “*456 Franklin St. San Francisco, CA*” **104a**. In prior art, location markers corresponding to locations **104b-104d**, whose geographic coordinates are outside of the visible area of a map **106**, are not displayed. Thus,
10 the user may be unaware of the relative locations and distances of the location markers not visible on the visible area of a map **106**.

[023] In the presently-preferred embodiment of this invention, location markers outside the visible area of a map **106** may be referenced by OVIs, displayed to the user by the map-display application **100**. The location marker identifiers “*B*” **102b**, “*C*” **102c** and “*D*” **102d**,
15 in the list of locations **101**, may be referenced by the OVIs “*B*” **114**, “*C*” **112** and “*D*” **116**, respectively.

[024] For example, the OVI “*D*” **116** may reference a remote location marker, not visible on the visible area of a map **106**, corresponding to the geographic location of the location marker identifier “*D*” **102d**, at location/address/information “*1700 Pine St. , SF, CA, (415) 555-151, Yahoo: my_best_friend08*” **104d**. (A social network may provide member
20 information including name, address, phone number, instant-messenger Id, etc.) Information displayed in the OVI “*D*” **116** may include a vector (e.g. arrow) pointing in the direction of the referenced remote location marker, the distance and travel time to the remote location marker and any other information associated with the location marker identifier (e.g.
25 member’s name, phone number, etc.) Similarly, the other OVIs “*B*” **114** and “*C*” **112** may point to their corresponding remote (i.e. not visible to the user on the visible are of a map **106**) location markers and may contain information about respective distances and travel times.

[025] Please refer to **FIGs. 3A-3C** for more in-depth discussion of OVIs, the data they may contain and their placement on the visual display. **FIGs. 6A and 6B, 8A-8C and 9A-9E** describe various embodiments involving OVIs and their use in electronic maps.

5 [026] **FIGs. 2A and 2B** are generalized block diagrams illustrating the creation of OVIs associated with a social network, displaying information on a map on a client device, according to various embodiments of the present invention.

[027] Referring to **FIG. 2A**, block diagram **200** illustrates a system displaying social-networking information on a map on a client device, as commonly implemented in the prior art. A social networking service **206** (comprising one or more servers), may include a data
10 store **208**, storing member profiles, locations, preferences, meeting places information, POIs, etc.

[028] An electronic device **202**, used by a member of a social network, may transmit its geographic location to the social network service **206** for recording in the data store **208**. For example, the electronic device may be equipped with GPS (or other means of discerning
15 geographic location such as using cellular phone tower triangulation) and periodically transmit its location to the social networking service **206**.

[029] The social network data store **208** may aggregate information referencing POIs: meeting places, restaurants, events, stores, etc. A POI **204** may transmit its geographic location to the social network data store **208**; or, in other implementations, a web crawler
20 may be used by the social network to seek and aggregate geographic locations, or members of the social network may submit geo-tagged location information to the social network **206**, etc.

[030] A client device **210** (e.g. personal computer, mobile device, etc.) may receive information from the social network **206** and display the information in a mapping
25 application **212**. The mapping application **212** may be a web browsing application or any other application capable of displaying an electronic map containing geographic data,

obtained from the social network **206**. A mapping server **214** (commonly on a network, such as the internet, external to the client device **210**; but, may also be internal to the client device such as mapping software coupled with DVD ROM) may be used to generate mapping data on the mapping application **212**.

- 5 **[031]** In one presently-preferred embodiment, an OVI algorithm **216** may be executed on the client device **210**. The OVI algorithm **216** may be contained in an application, an application module, an object, a DLL, an ActiveX control accessible to the mapping/ web-browser application **212**, or in any other computer code executable by a processor on the client device **210**.
- 10 **[032]** The OVI algorithm **216** may receive mapping data from the social network **206**, from the mapping application **212** and from the mapping server **214**. The OVI algorithm **216** may determine both bounds of a map displayed in the mapping application **212** and the mapping data outside of the determined bounds. The OVI algorithm **216** may create OVIs referencing the mapping data outside of the determined bounds. The OVIs may be displayed by the map display application **212**.
- 15

[033] Referring now to **FIG. 2B**, in an alternate embodiment illustrated in diagram **260**, a mapping server **270** may include an OVI algorithm **272**. A record store **268** of a social networking service **266** may aggregate social-networking related data from external sources (e.g. social network members **262**, POIs related to social networking **264**, etc.)

- 20 **[034]** A mapping application **276** (e.g. a web browser, a mobile-device mapping application, etc.) on a client device **274** may display social networking mapping data from the social network **266**. A mapping server **270**, external to the client device **270**, may process mapping data related to the social network **266**. The mapping server **270** may generate a map, or map-related graphics (e.g. mapping tiles, graphical representations of POI
- 25 displayed on a map, etc.) which is displayed by the mapping application **276** on the client device **274**.

[035] The mapping server 270 may include OVI display algorithm 272. The OVI algorithm 272 may receive mapping data and determine bounds of a map displayed in the mapping application 276. The OVI display algorithm 272 may determine the mapping data outside of the determined bounds. The OVI algorithm 272 may create OVIs referencing the mapping data outside of the determined bounds. The OVIs may be displayed by the map display application 276.

[036] In alternate embodiments of the present invention, individual algorithms determining social-networking related mapping data outside a visible area of a map, creating OVI and displaying the OVIs, may be implemented in different places (i.e. be part of different hardware and or software components represented in the diagrams 200 and 260.) In another embodiment, one or more OVI algorithms may be implemented as code in a mapping application, a map-generating application, a social-networking related application, etc.

[037] FIGs. 3A, 3B and 3C are generalized block diagrams illustrating the appearance and positioning of object vector indicators (“OVI”), according to various embodiments of the present invention. An OVI 300 may be rendered in the form of any geometric shape, e.g. a rectangle, and appear in any color, e.g. where the color and/or the color’s intensity bears a meaning, such as distance or travel time. Information associated with the OVI 300 (e.g. a vector 304, an object reference 302, a distance indicator 306, a travel-time indicator 308, etc.) may be displayed internally or externally to the OVI 300. In alternate embodiments, the OVI 300 may be an image, an animation of images, or any other graphic.

[038] The manner in which the OVI 300 is displayed, its positioning and information it contains, may be set by user preferences or defaults. The position of the OVI 300 may vary and may shift in response to various factors, such as changing road conditions, the movement of the user of the electronic map, etc.

[039] The object reference 302 (e.g. “I”) may be an alpha-numeric character and/or a symbol identifying the MO referenced by the OVI 300. In an alternate embodiment, a single

OVI may cycle through referencing more than one MO, with the object reference **302** indicating the proper MO throughout the cycle.

[040] The vector **304** may point in the direction of the MO referenced by the OVI **300**. The base of the vector **304** may be oriented with an MO visible to the user. The shape of the vector **304** may be a line with an arrowhead at the end. The orientation of the vector **304** may change in response to the motion of the user. For example, as the user travels North with respect to the MO that is due East, the orientation of the vector **304** may change such that it rotates clock-wise and keeps pointing at the MO.

[041] In alternate embodiments, physical characteristics of the vector **304**, such as length, thickness, color, etc. may correspond to attributes related to the MO referenced by the OVI **300**. For example, traveling in the direction of the MO referenced by the OVI may cause the vector **304** to change shape, color, blink, etc.

[042] The distance indicator **306** may represent the distance needed to travel to reach the referenced MO. The travel distance may be expressed in any unit of measurement, such as English, Metric, etc, and may be based on user preferences, locale settings, distance thresholds (e.g. any distance less than $\frac{1}{2}$ a mile may be expressed in feet), etc. Various methods and algorithms may be used to determine the distance needed to travel (e.g. based on road conditions, method of travel, traffic, etc.) In various embodiments the distance indicator **306** may be in different colors or display modes to indicate various states. For example, for a mobile user traveling along a path between MOs, deviating from an ideal route may cause the color of the distance indicator **306** to change, flash, etc.

[043] The travel-time indicator **308** may represent the time needed to travel to reach the referenced MO. The travel time may be expressed in various ways, for example based on user preferences, locale settings, time thresholds (e.g. travel time less than $\frac{1}{2}$ a hour may be expressed in minutes), etc. Various methods and algorithms may be used to determine the time needed to travel (e.g. based on one way roads, road conditions, method of travel, traffic, speed of travel, etc.) In various embodiments the travel-time indicator **308** may be in

different colors or display modes to indicate various states. For example, for a mobile user traveling along a path between MOs, deviating from an ideal route may cause the color of the travel-time indicator **308** to change, flash, etc.

[044] MO name **310** may identify the name/handle of the social-network member (e.g. “*Joe Smith*”)/POI represented by the MO. The MO name **310** may be obtained from a social network. The MO name **310** may be displayed in the OVI **300**, depending on the size constraints, user preferences and other limitations and considerations. In one possible embodiments, the MO name **310** may be selectable by the user and in response to the user selection (e.g. via a pointing device, a touch screen, a voice commands, etc.) additional information related to the MO name **310** may be displayed.

[045] Contact information **312** may enable a user to reach (i.e. electronically transmit information to) the MO referenced by the OVI **300**. For example, the contact information **312** may be a phone number (e.g. “*415 555 1212*”). In one possible embodiment, the contact information **312** may be selectable by the user and in response to the user selection (e.g. via a pointing device, a touch screen, a voice commands, etc.) an electronic communication may be established with the referenced MO (e.g. via a phone call, SMS, email, instant message, etc.)

[046] In cases where the position of the MO and/or the position of the client device displaying the MO **300**, changes, a synchronization date/time stamp **314** may be displayed. For example, if the MO represents a social network member using an electronic device enabled to determine and transmit its location, the last transmission time of the location of the remote member’s electronic device may be displayed (e.g. “*Last sync 09/06/08 13:32 PM*”).

[047] In other possible embodiments, other information may be displayed on the OVI **300**. Information displayed on the OVI **300** may be displayed in varying colors, font sizes and as various different graphical representations.

[048] Referring now to **FIG. 3B**, a map-display application **350** may display a map **351**. The map display application **350** may have two borders: the physical border of the display **352** (e.g. the edges of the LCD display beyond which no data can be displayed) and a displayed border **354**, confining the map **351**. A region **353** between the display-border **354** and the physical border **352**, may be used to display additional information. In another embodiment, the display-border **354** may not exist, or may overlap the physical border **352**.

[049] A location marker **356** may be displayed on the map **351**. Other location markers may exist outside the visible area of the map **351**. For example, a location marker “2” (not shown) may exist north-west of the location marker “1” **356** on the map **351**, outside the visible area of the map **351**. In one possible embodiment, an OVI **360a** may reference the location marker “2”, positioned externally to the visible map **351**. The OVI **360a** may be displayed on the map **351**, and may be bound by the display-border **354**. According to this one possible embodiment, the OVI **360a** may be positioned in close proximity to—or touching—the display-border **354**.

[050] In this one presently-preferred embodiment, the position of the OVI **360a** may change along the “x” axis **358a** and “y” axis **358b**. For example, when the map **351** is displayed while “in motion” (i.e. the user of the electronic device displaying the map **351** is moving and/or the referenced location marker “2” is in motion) the OVI **360a** may be repositioned along the “x” axis **358a**, in response to a relative East-West movement; and along the “y” axis **358b** in response to a relative North-South movement—within the confines of display-border **354**.

[051] In an alternate preferred embodiment, an OVI **360b** may be displayed on top of the display-border **354** (e.g. the display-border **354** may bisect the OVI **360b**). A portion of the OVI **360b** may be displayed on top of the map **351**, another portion may be displayed on top of the display-border **354** and another portion may be displayed over the region **353**. In response to a relative change in the position of the referenced MO (e.g. a location marker “3”—not shown—referenced by the OVI **360b**) the OVI **360b** may move East-West, along the “x” axis **358d**, and/or North-South, along the “y” axis **358c**.

[052] Referring now to **FIG. 3C**, in another alternate embodiment, an **OVI 360c** (e.g. referencing a MO “4”—not shown—external to the map **351**, South-West of the location marker **356**) may be displayed on the map **351**. The **OVI 360c** may be positioned along an imaginary line **374a**, spanned between the location marker “I” **356** and the MO “4” (not shown).

[053] In one possible embodiment, the positioning of the **OVI 360c** along the length “D” **372** of the imaginary line **374a** may be proportionate to the real-life distance between the geographic location denoted by the location marker “I” **356** and the MO denoted by the location marker “4” (not shown.), on a different scale from the scale of the map **351**. The length “D” of the imaginary line **374a** may be defined as the distance between the location marker “I” **356** and the intersection point of the imaginary line **374a** with the display-frame **354**.

[054] For example, the map **351** may be displayed on a scale where 1 inch = 100 miles (as indicated by a scale **380**.) The distance from the location marker “I” **356** to the referenced MO “4” may be 1,000 miles in this example (as indicated by the distance measurement in the **OVI 360c**.) The distance “D” **372**—being the length of the imaginary line **374a**—may represent a larger scale, for example, 1 inch=600 miles. Thus the distance “D” **372** of the imaginary line **374a** may represent about 2,000 miles (approximately 3 inches on the map **351**.) In this example, the positioning of the **OVI 360c** approximately at the half-way point of the imaginary line **374a**, may serve as a visual indicator to the user that the invisible referenced MO “4” may be approximately 1,000 miles away. The repositioning of the **OVI 360c** along the imaginary line **374a**, North-West in the direction of the location marker “I” **356**, may serve as a visual indicator to the user that the invisible referenced MO “4” is getting closer to the location marker “I” **356** and thereby closer to the user and closer to being visible on the map **351**.

[055] An imaginary arched path **374b**, at a radius “RI” **370** from the location marker “I” **356**, may be followed by the **OVI 360c** as the invisible referenced MO “4” moves around the location marker “I” **356**. For example, if the user standing at a geographic location

represented by the location marker “*I*” **356** makes a complete 360 degree turn clockwise, the OVI **360c** may sweep along the arc **374b** in a counter-clockwise direction, maintaining the radius “*R1*” **370** as the distance. *R1* may increase or decrease in relation to the change in the distance between the location marker “*I*” **356** and the invisible referenced MO “*4*”, as

5 discussed in the previous paragraph.

[056] In alternate embodiments, various other methods and visual representations may be used to reference MOs external to the map **351**, without departing from the scope and spirit of the present invention.

[057] **FIGs. 4A** and **4B** are generalized flow diagrams illustrating the creation and
10 displaying of OVIs from data in a social network, according to various embodiments of the present invention. A map-display application, running on a digital device may be connected to a mapping server. For example, an internet browser on a personal computer/laptop/tablet PC, etc., connected to a mapping service such as Google® Maps, Yahoo!® Maps, Windows® Live Search Maps etc.; a GPS navigation unit such as Garmin®, Magellan®,
15 TomTom® etc. connected to a local mapping server/database such as a mapping DVD or to a remote mapping server and displaying a map through a proprietary map-display application; a cellular/smart phone displaying mapping data through an internet browsing application or a mapping application, etc.

[058] Flowchart **400** illustrates a methodology for displaying OVIs by a map-display
20 application. Upon a triggered event in the map-display application (e.g. in response to a change in zoom/pan, change in data causing a “redraw” or “refresh” command to execute by the map-display application or in response to user input, a programmable “event”, new data from the social network such as a remote user’s device reporting a new location, etc.) a map is displayed and OVIs are created to reference MOs outside the visible area of the map. In the
25 flow **400** all MOs to be displayed on a map (e.g. MOs obtained from a social network) may be traversed and every MO may either be displayed as a location maker—if its location is in the visible area of the map—or as an OVI—if its location is not in the visible area of the map.

[059] At step **402**, a first MO may be identified. MOs may be data points in a social network designed to be displayed on a map. For example, street locations of meeting places, current locations of mobile social-network members, etc. The first MO might be the first of any number of MOs demarcated on a map via location markers.

5 [060] At step **404**, it may be determined whether the MO is within the visible area of a map. The determination may be made by calculating the geographic bounds of the region of the map displayed by the map-display application, and determining whether the geographic (e.g. longitude/latitude) coordinates of the MO are within the bounds of the visible area of the map (please note that this type of determination is well established in prior art, as map-display
10 applications determine what geographic locations are to be displayed.)

[061] If it is determined at step **404** that the MO is within the bounds of the visible area of the map, at step **406** the MO may be displayed on the visible area of the map of the map-display application. At step **412**, the next MO is identified and at step **414** the process is repeated until all MOs have been displayed on the map. Steps **404**, **406**, **412** and **414** may be
15 repeated until all MOs have been traversed.

[062] If it is determined at step **404** that the MO is not within the bounds of the visible area of the map, at step **408** an OVI may be created to reference the MO. (Please refer to **FIG. 4B** illustrating the creation of an OVI.)

[063] At step **410**, the OVI created at step **408** may be displayed. The OVI may be
20 displayed in numerous ways. Please refer to the discussion of **FIGs. 3A-3C** for OVI display embodiments.

[064] At step **412**, the next MO may be identified. Step **412** may also be executed following step **406**.

[065] If at step **412** another valid MO is identified, step **414** may revert to step **404**,
25 examining the new MO identified at step **412**. If at step **414** it is determined no valid MO has

been identified at step **412** (i.e. all MOs have been traversed) at step **416** the logic of the flow **400** may end.

[066] Please note that in one embodiment, steps **404**, **406**, **412** and **414** may be implemented, while in other embodiments the additional steps **408** and **410** may be
5 implemented.

[067] Referring now to **FIG. 4B**, steps **450-460** are an illustration of smaller steps comprising the “create OVI” step **408** in **FIG. 4A**.

[068] At step **450**, the current location of the electronic device displaying the map-
displayed application, may be obtained (e.g. via the use of GPS navigation, cellular phone
10 triangulation, etc.) In an alternate embodiment, the geographic location of a MO on the map
(e.g. the MO at the center of the map) may be considered to be the current location.

[069] At step **452**, the location of the MO (identified at step **412** and determined to not be
within the visible area of the map of the map-display application at step **404** of **FIG. 4A**),
may be determined.

15 [070] At step **454**, a vector from the current location determined at step **450** to the location
of the MO determined at step **452**, may be computed. The vector (e.g. an arrow) may
represent the direction and distance between the current location and the location of the MO.

[071] At step **456**, the travel distance between the current location determined at step **450**
and the location of the MO determined at step **452**, may be computed. The algorithm for
20 computing the travel distance may be based on the medium of travel (i.e. by foot, car, etc.),
the optimal choosing of roads, user preferences, etc.

[072] At step **458**, the travel time between the current location determined at step **450** and
the location of the MO determined at step **452**, may be computed. The algorithm for
computing the travel time may be based on the medium of travel, the optimal choosing of
25 roads, user preferences, traffic and weather conditions, etc.

[073] At step 460, the placement of the OVI on the map-display application may be determined. Please refer to **FIGs. 3A-3C** for a more complete discussion of various embodiments for placing an OVI in a map-display application.

[074] **FIGs. 5A** and **5B** are generalized block diagrams illustrating displaying object vector indicators (“OVI”) in GPS navigation devices, according to one embodiment of the present invention. GPS navigation devices (e.g. used in car navigation) may display way-points (“WP”) or points-of-interest (“POI”) collectively referred to inhere as map-objects (“MO”). In association with social networking, GPS navigation devices may display MOs denoting the locations of places of interest, present locations of mobile members, etc.

10 [075] In the prior art, only MOs within the bounds of a visible portion of a map are displayed. MOs outside the bounds of the visible portion of the map are not displayed. A MO that is the next way-point or destination in travel directions, may be referenced. For example, referring to **FIG. 5A**, a GPS navigation device **500** may display a visible area of a map **508** in a map-display application **506**. A direction-indicator **507A** and a distance indicator **507b**

15 may reference the next MO along a travel route. However, no other MOs are referenced, in the prior art.

[076] In one preferred embodiment of this invention, OVIs **512**, **514** and **516** may be displayed by the map-display application **506**, referencing MOs which are outside the area of the map **508** visible to the user through the map-display application **506**. The OVI **512**

20 may display information referencing a MO “1” outside the visible area of the map **508**. The OVI **512** may indicate the direction of the MO it references (e.g. via an arrow), the distance to the MO (e.g. “700 ft”) and the travel time to the MO (e.g. “5 min.”)

[077] An OVI may display a symbol indicating the nature of the MO it references, along with other relevant information, such as the distance, etc. For example, the OVI **514** may

25 include a prominent symbol related to eating—such as a knife and fork—which may indicate and social network gathering place/restaurant. The OVI **516** may display a prominent symbol of a person, indicating a location/position of a social network member. In various possible

embodiments, the symbol of the person may be an icon, an image of the social network member, etc. .

[078] The distance indicators in the OVIs **512**, **514** and **516** may be measured from the current location of the vehicle/user, commonly indicated by a symbol **510** on the map **508**. In response to a change in the location of the vehicle/user, the positioning of the OVIs **512**, **514** and **516**, and information the OVIs contain (e.g. distance), may change. The OVIs **512**, **514** and **516** may be displayed on the periphery of the map-display application **506**. In one embodiment, the map-display application **506** may contain a physical border **502** (i.e. the physical edge of the display) and a display-border **504** (i.e. the edges of the visible area of the map **508**.) The OVIs **512**, **514** and **516** may be displayed overlaying the display-border **504** (i.e. extending farther towards the physical border **502** than the visible area of the map **508**, which may be confined to within the border **504**.) In alternate embodiments, the OVIs may be displayed in various other ways, as illustrated and discussed in **FIGs. 3A-3C**.

[079] Referring now to **FIG. 5B**, a GPS navigation device **550** may display a graphic **570**, which may correlate to a physical map, from the perspective of a driver. In prior art, a MO **571** (e.g. a location marker with a symbol for a restaurant) may be displayed by the graphic **570**, representing the approximate location of the MO, from the perspective of the viewer (i.e. the driver.) The MO **570** must be within the field-of-view of the user (i.e. driver) albeit at a certain distance (i.e. down-the-road.)

[080] In the present embodiment, OVIs **558** and **560** may be displayed by a map-display application **556**, to indicate MOs not visible on the graphic **570** (i.e outside the field-of-view of the user/driver.). The placement of OVIs may be computed such that, from the perspective of the user/viewer/driver, the top of the display frame **552** may be considered “in front”; the left and right sides of the display frame **552** may be considered “left of” and “right of”, respectively; and the bottom of the display frame **552** may be considered “behind”.

[081] As a vehicle that mat be associated with the GPS navigation device **550**, in this example, moves and its own position is recomputed, the OVIs **558** and **560** may be

repositioned accordingly. In this example, the OVI “1” 558, positioned along the right side of the display border 552, may indicate its referenced MO is to the right of the vehicle (i.e. of the GPS navigation device 550), outside the user/viewer/driver’s field-of-view. Information associated with the OVI 558 (e.g. direction, distance, time-of-arrival, etc.) may be displayed
5 inside of—or in close proximity to—the OVI 558. Similarly, the OVI “2” 560, positioned left-of-center along the top of the display border 552, may indicate the MO (e.g. a social network member “Chris”) the OVI “2” 560 references is to-the-left of the vehicle (i.e. of the GPS navigation device 550).

[082] In alternate embodiments other methods of displaying OVIs in GPS navigation units
10 may be employed. OVIs may bear different shapes, colors, move in different directions, contain various different information, etc.

[083] FIGs. 6A and 6B are generalized block diagrams illustrating displaying and utilizing OVIs to move around a map (i.e. pan a map), according to one embodiment of the present invention. Electronic devices, displaying digital maps, commonly allow a user to interface
15 with the map via inputs (e.g. a touch screen, a computer mouse, a keyboard, buttons, voice interface, etc.)

[084] In the presently-preferred embodiment, a MO (e.g. a social-networking related location marker) which is visible to the user on a region of a map, may alter its form to an OVI, referencing the MO, in response to a shift (e.g. a pan) of the region of the map, such
20 that the MO is no longer visible on the region of the map. For example, a location marker may be displayed on a region of a map. The region of the map may shift right, in response to a user’s panning the map to the left. The location marker may shift right with the rest of the region of the map, maintaining its geographic position. Once the region of the map has shifted right sufficiently for the location marker to become invisible to the user, the location
25 marker may be replaced with an OVI, referencing the theoretical position of the location marker (now invisible to the user.)

[085] Referring to FIG. 6A, a map-display application 600, running on an electronic device (e.g. a computer, a personal digital assistant, a mobile device, a GPS navigation unit, etc.) may display a map region 602a. The map region 602a may include one or more location markers, such as a location marker “2” 604a. The map-display application may display one
5 or more OVIs, referencing map objects (“MO”) that are not visible to the user of the map-display application 600.

[086] In this example, an OVI 608, displayed South/South-East of the location marker “2” 604a, on the periphery of the map region 602a, may contain the information “3, 2 mi, 20 min”, referencing a location marker labeled “3” which is 2 miles and a 20 minute travel time,
10 due South/South-East of the location marker “2” 604a. Similarly, an OVI 606a, displayed East of the location marker “2” 604a, on the periphery of the map region 602a, may contain the information “1, 500ft, 3 min”, referencing a location marker labeled “1” which is 500 feet and a 3-minute travel time, due East of the location marker “2” 604a.

[087] In the presently-preferred embodiment, the user may use an input device (e.g. the
15 illustrated “hand/finger” 610, a stylus, a button, a keyboard, a mouse, voice instructions, etc) to select an OVI. Selecting an OVI may cause the map region displayed in the map-display application 600 to pan such that the selected OVI is visible in the new map region displayed. In another preferred embodiment, the new map region may be displayed (i.e. panned to) such that the geographic location indicated by the OVI selected is centered in the new map region
20 displayed. In alternate embodiments, selecting an OVI may pan and zoom a map such that the visible map region includes both the originally-centered location marker and the newly-selected location marker, referenced by the selected OVI.

[088] In this example, selecting the OVI “1” 606a may cause the map region 602a and the OVIs 606a and 608, displayed by the map-display application 600, to change. Referring now
25 to FIG. 6B, in response to the user’s selecting (e.g. by clicking on) the OVI “1” 606a, the original map region 602a, displayed by the map-display application 600, may be panned to form a map region 602b. The map region 602b may be centered around the location marker

“**I**” **606b**. The location marker “**I**” **606b** may have taken the form of the OVI “**1**” **606a** while outside of the map region **602a**.

[089] Accordingly, the location marker “**2**” **604a**. (see **FIG. 6A**), not visible on the map region **602b**, may be referenced by a new OVI “**2**” **604b**, indicating the invisible location
5 marker “**2**” is 500ft and a 3-minute-travel time due West from the visible location marker “**I**” **606b**.

[090] When the location maker “**I**” **606b** becomes at the center of the map region **602b**, the position OVI “**3**” **608** and information it contains, may change . In **FIG. 6A**, while the location marker “**2**” **604a** was at the center of the map region **602a**, the OVI “**3**” **608**
10 displayed a distance of 2 miles, a travel time of 20 minutes and a direction vector of South/South-East. Referring back to **FIG. 6B**, with the geographic shift (from the map region **602a** to the map region **602b**) of 500 feet due West from the location marker “**2**” **604a**, to the location marker “**I**” **606b** being at the center of the new map region **602b**, the information displayed by the OVI “**3**” **608** may be change. The OVI “**3**” **608** may now
15 display a new distance of 2.1 miles, a new travel-time of 21 minutes and a direction vector of South/South-West.

[091] Please note that in this example, the travel-time differences are illustrated as being dependent strictly on vector geometry, whereas in a real implementation of the presently-preferred embodiment of this invention, travel time may vary and be calibrated according to
20 road conditions, traffic patterns, etc.

[092] The panning of a map to display a location marker at the map’s center, referenced by a selected OVI, may be accomplished in various ways in different embodiments. In one possible embodiment, the map may instantaneously change from displaying the “original map”, with the original location marker at its center, to displaying the “new map”, with the
25 location marker referenced by the OVI selected, at the center of the new map. In alternate embodiments, the transition of the map regions displayed may be slowed down and/or animated (please see further discussion of these embodiments in **FIGs. 8A-8C** and **9A-9C**.)

[093] FIG. 7 is a generalize block diagram illustrating various communications between a client device and a social network, allowing a map with OVIs to be created and displayed, according to one embodiment of the present invention. A client device 704 may receive input from a user 702, a GPS source 706, a mapping service 708 and a social network 710. The client device 704 may then display a map and create and display OVIs referencing map objects outside the visible arte of the map.

[094] The client device 704 (e.g. a mobile device, a personal computer, a navigation system, etc.) may receive user input (e.g. via a touch screen, from an input device, via a voice command, etc.) and in response, the client device 704 may display/alter-the-display-of an electronic map. For example, a user may invoke a “map command” 720, instructing the device 704 to display a map. In another example, the user may select a “community filter” command 722, requesting that social-network information be retrieved and re-displayed on a map. In another example, the user may select a “search” command 724, causing the retrieval of new map-able information over the network, and a re-rendering of a map on the client device 702.

[095] The GPS source 706 (which may be external or internal to the client device 704, or may generally be a means for the client device 704 to acquire its geographic location) may transmit geographic coordinates to the client device 704. The client device 704 may transmit its location to the social network 710 (e.g. periodically, in response to an electronic request by the social network 710, in response to a change the in the client device’s 704 location, etc.)

[096] The social networking system 710 (e.g. computer servers used by a social network) may aggregate information related to POIs and members. For example, the social network system 710 may contain the geographic locations/coordinate of meetings places, members’ residences, etc. A remote user’s device 712 may transmit to the social networking system 710 the coordinates of the remote device 712 (i.e. of the user using the remote device 712.) For example, the remote device 712 may be a mobile device that transmits its geographic location to the social networking system 710 (e.g. the transmission may be periodic, invoked

by the user of the device, transmitted in response to an event such as a request from the social networking system, etc.)

[097] The client device **704** may transmit an electronic communication **730** to the social network **710**. For example, in response to the user’s mapping command **720**, a change in the user’s community filter parameters **722**, an update to a search query **724**, a change in the location of the client device **726**, as an automatic periodic transmission, etc. The social network **710** may transmit map-able information **732** (e.g. locations of social network members, POIs, events, etc.) to the client device **704** (e.g. in response to a transmission **730** from the client device **704**, at an automatic periodic interval, in response to a change in any of the map-able information, or in response to any other event.)

[098] In the presently-preferred embodiment, the client device **704** may transmit map-able information **734** to a mapping server **708** and receive back from the mapping server **708** an electronic map **736**. The mapping server **708** may be external to the client device **704**; or, in alternate embodiments, may be a hardware and/or software component of the client device **704**. In alternate embodiments, the mapping server **708** may be part of the social network **710** such that the map is received by the client device **704** from the social network **710**.

[099] In the prior art, the client device **704** displays the map **738**. Map-able information outside the visible area of the map is not displayed to the user, and is not referenced on the displayed map.

[100] In the presently-preferred embodiment, in addition to displaying the map **738** to the user, OVIs referencing MOs outside the visible area of the map are created and displayed **740**. A determination of the MOs, contained in the map-able information **732**, outside the map **738**, may be made. OVIs referencing the determined MOs may be created. The OVIs may be displayed in association with the displayed map.

[101] In alternate possible embodiments, the process of determining, creating and displaying the OVIs **740** may be divided into smaller processes which may be executed

separately from each other. In other embodiments, one or more of the processes may be executed externally to the client device **704** (e.g. by the mapping server **708**.)

[102] **FIGs. 8A, 8B and 8C** are generalized block diagrams illustrating displaying object vector indicators (“OVI”) and utilizing OVIs to pan around a map in an automated fashion, according various embodiments of the present invention. In response to a user’s selection of an OVI, a map-display application may zoom and/or pan the map, transitioning the view from displaying an area including one location marker, to displaying an area including another location marker, referenced by the selected OVI.

[103] Referring to **FIG. 8A**, a map-display application **801** may display a map-region **802a** of a map **800**. The map **800** may be invisible to the user, except the area comprising the map-region **802a** (the cross-hatching in **FIGs. 8A-8C** signifies portions of the map **800** not visible to the user.) The dimensions of the map-region **802a** may be determined by the zoom level of the map-display application **801**, the dimensions of the map-display application **801** etc. The map-region **802a** may be the only portion of the map **800** visible to the user, through the map-display application **801**. Other portions of the map **800**, outside of the map-region **802a**, may not be visible to the user. A location marker **810** located on a portion of the map **800** outside of the map-region **802a**, may not be visible to the user.

[104] A location marker “2” **806** may be displayed on the map-region **802a**, for example, to denote a way-point or landmark in the geographic location corresponding to the location of the location marker **806**. One or more remote location markers on the map **800** may not be visible to the user of the map-display application **801**. For example, the location marker “1” **810** may not be visible to the user.

[105] OVIs may be displayed in the map-display application **801**, indicating to the user the direction—as well as other relevant information, such as distance, travel time, etc.--of the location markers not visible (e.g. the location marker “1” **810**.)

- [106] In prior art, the user viewing the map-region **802a** in the map-display application **801**, may not know the direction and distance to the invisible location marker “1” **810**. In order to bring the location marker “1” **810** into view in the map-display application **801**, the user has to (1) pan the map **800** in the general direction of the location marker **810** until the visible
- 5 portion of the map **800** includes the location marker **810**, and/or (2) zoom out until the visible portion of the map **800** includes the location marker **810**, and/or (3) in the case of menu referencing the location marker **810**, selecting the reference to the location marker **810** from the menu causing the portion of the map **800** including the location marker **810** to become visible in the map-display application **801**.
- 10 [107] In the presently-preferred embodiment, the user may select an OVI and in response, the map-display application may perform a series of autonomous steps. The user may select the OVI “1” **808** (e.g. by clicking on it with a pointing device, by touching it through a touch screen, via a voice instruction, etc.) In response, referring now to **FIG. 8B**, the map-display application **801** may zoom-out and/or pan the map **800**, such that the map-region **802b** (i.e.
- 15 the portion of the map **800** displayed through map-display application **801**) may include both the location marker “2” **806** and the location marker “1” **810**. In an alternate embodiment, the map **800** may be zoomed and/or panned in such manner that the map-display application **801** may display a minimal map-region **820** of the map **800**, with the location markers **806** and **810** at its borders (the minimal map-region **820** may be defined as the smallest area of the
- 20 map **800** inclusive of all location markers, i.e. **806** and **810**.)
- [108] Referring now to **FIG. 8C**, the map-display application **801** may display a map-region **802c** of the map **800**. The map-region **802c** may include the location marker **810**. In one possible embodiment, the location marker **810** may be centered on the map-region **802c**. An OVI **812** may reference (i.e. point to and provide information including distance, travel
- 25 time, etc.) the location marker “2” **806**. The location marker “2” **806** may be invisible in the map-display application **801** in **FIG. 8C**.
- [109] Please note that the examples in **FIGs. 8A-8C** show three distinct states: a map showing one location marker and one OVI, a map showing both location markers and no

OVI, and a map showing the other location marker and another OVI, pointing to the first location marker. These three distinct states are used for illustrative purposes only. In a preferred implementation, more states may be possible and the transition from one state to the next may be gradual, animated and/or time-delayed. For example, a user clicking on an OVI on a map, containing a location marker, may cause the map to slowly zoom and/or pan until the location marker referenced by the OVI is visible, in addition to the first location marker. The map may then proceed to zoom and/or pan such that the original location marker is no longer visible but is referenced by a new OVI, and the location marker referenced by the first OVI, is visible. **FIGs. 9A-9C** illustrate other methods of visual map transition in alternate embodiments.

[110] **FIGs. 9A, 9B, 9C, 9D** and **9E** are generalized block diagrams illustrating various methods for transitioning a region of a map displayed, in conjunctions with OVIs, to allow a user to visualize the path between location markers, according to various embodiments of the present invention. In response to a user's selection of an OVI, a map-display application may zoom and/or pan the map, transitioning the view from displaying a map-region including one location marker, to displaying a map-region including another location marker, referenced by the selected OVI. The map-display application transition may follow various geographic routes and may automatically return to displaying the initial map-region.

[111] Referring to **FIG. 9A**, a map-display application **901** may display a map-region **910a** of a map **900**, which may be invisible to the user (the cross-hatching in **FIGs. 9A-9E** signifies portions of the map **900** not visible to the user through the map-display application **901**.) The map-display application **901** may contain a location marker “2” **902**, displayed overlaying the map-region **910a**, and an OVI “1” **904a**. The OVI **904a** may reference a remote location marker “1” **906**, outside the visible map-display region **910a**. The map **900** may be a street map, a satellite image or any other type of electronic map.

[112] In response to a user's input selecting the OVI **904a** (e.g. via a touch screen, via an electronic imputer device, via voice-activation, etc.) an automatic transition of the region of the map **900** displayed by the map-display application **901**, may be initiated. The transition

may help the user visualize the geography and path from the location marker “2” 902 visible to the user, to the remote location marker “1” 906, invisible to the user and referenced by the OVI “1” 904a.

[113] In one possible preferred embodiment, illustrated by sequence in **FIGS. 9A, 9B** and
5 **9D**, the transition may be along a linear path. In this embodiment, the visible region of the map 900, shown in the map-display application 901, may transition along a straight geographic path. In alternate embodiments, described in the sequence of **FIGS. 9A, 9C** and **9D**, the transition may follow a street-path.

[114] Referring now to **FIG. 9B**, the map 900 may be transitioned through the map-display
10 application 901 along a straight imaginary line 920a, from the location marker “2” 902 to the location marker “1” 906. Throughout the transition of the map 900, the location marker “2” 902 and the location marker “1” 906, remain known to the user (i.e. the user is aware of the locations of these location markers, whether or not they are visible on the portion of the map shown in the map-display application.) In a case where the transition causes the map-display
15 application 901 to display a map-region 910b which does not include the location markers, OVIs may be displayed. For example, the map-region 910b does not include the location makers 902 and 906, so an OVI 912b may be displayed with information referencing the invisible location marker 902 and an OVI 904b may be displayed with information
20 referencing the invisible location marker 906. The OVIs 904b and 912b may be displayed in a positioning aligning them with the imaginary line of transition 920a.

[115] Referring now to **FIG. 9C**, in an alternate embodiment, the map 900 may be transitioned through the map-display application 901 along a path 920b resembling real-life travel routes. For example, the path 920b may follow a route recommended by a guidance service (e.g. a GPS navigation device, a mapping website enabled for computing and
25 displaying directions, etc.) In various other embodiments, the user may be offered to choose from one or more alternative routes. The routes may be computed based on real-time road and traffic conditions, etc. The speed with which the map 900 is transitioned within the map-display application 901 may be animated to mimic real travel conditions. For example, the

transitioning effect may be halted briefly when the path **920b** passes through a stop-sign or traffic light, etc.

[116] Throughout the transitioning effects described in **FIGs. 9B** and **9C**, information displayed in the OVIs may be updated in real time. For example, referring to **FIG. 9C**, as the map **900** transitions left, simulating the user traveling right along the path **920b** (i.e. away from the location marker **902**), the OVI “2” **912b** may display a changed direction, increased distance and increased travel-time with respect to the location marker “2” **902** the OVI “2” **912b** is referencing. Likewise, the OVI “I” **904b** may display a changed direction, decreased distance and decreased travel-time with respect to the location marker “I” **906** the OVI “I” **904b** is referencing.

[117] Please note that in these examples, the travel-time change may be affected by real-time road conditions, as well as the decreased distance. In addition, please note that a map said to be traveling in a certain direction is a figure of speech—one may imagine the map being static and the map-display application shifting its view of the map causing the region of the map displayed by the map-display application to transition.

[118] Referring now to **FIG. 9D**, the transition may end when a new map-region **910c**, containing the location marker “I” **906**, is displayed in the map-display application **901**. In the presently-preferred embodiment, the map-region **910c** may be selected from map **900** in such manner as to center around the location marker “I” **906**. The location marker “2” **902**, visible to the user in the map-region **910a** in **FIG. 9A**, may not be visible to the user in the map-region **910c**. The location marker “2” **902** may be referenced by an OVI “2” **912c**, providing the user with a visual indication of the distance from, direction to and travel-time to the invisible location maker “2” **902**.

[119] Referring now to **FIG. 9E**, in another embodiment, the user may be shown a simulation of travel from a visible location marker in a map-region, to an invisible location marker referenced by an OVI, and back to the original map-region showing the original location marker. For example, in a “glance mode”, a region of a map, containing one or

more location markers, may be visible to the user through a map-display application. Also displayed by the map-display application may be one or more OVIs referencing location markers outside the visible region of the map. The user may select one of the OVIs, in response to which the map may automatically transition within the map-display application, shifting the view of the map towards the location marker referenced by the selected OVI, and, after a possible short pause, transitioning the map in reverse back to the original view. One of the advantages of this embodiment is in giving the user a quick perspective on where another remote location marker is and how to get there, without permanently deviating from the current map view.

5 [120] In this example, three phases of a map-display application are shown: a first phase where a first location marker is visible and a second location marker is not visible, and is referenced by an OVI; a second phase where neither location marker is visible and both location markers are visible by OVI; and a third phase where the first location marker is not visible and is referenced by an OVI, while the second location marker is visible. Please note
15 that these three phases represent three arbitrary points in the transition of a map through a map-display application, and in a real-life implementation the transition may involve hundreds of phases, creating the illusion of a smooth, animated panning of a map along a travel route. In addition, please note that in this example the “travel direction” of the map is linear, whereas in other embodiments the map may transition along a travel route following
20 streets and roads.

[121] In the first phase, a map-display application 950a may display a map-region 952a of a map 940. The map 940 may not be visible to the user other than its map-region 952a, visible through the map-display application 950a. The map-region 952a may include a location marker “2” 962, visible to the user. The map-region 952a may include an OVI “1” 964,
25 referencing a location marker “1” 968, not visible to the user through the map-display application 950a.

[122] In response to a user’s selecting the OVI “1” 964, an automatic map-display animation sequence may take place. The transition in the animation sequence may include

one or more in-between map regions. In the second phase, the map-display application is designated **950b** and may include a different region of the map **940**, designated as a map-region **952b**. The map-region **952b** may include OVIs referencing the location markers **962** and **968**, not visible in the map-region **952b**.

5 **[123]** The third phase may illustrate the final state of the map-display application, designated as **950c**. The map-display application **950b** may include a different region of the map **940**, designated as a map-region **952c**. The map-region **952c** may include an OVI “2” **966** referencing the location marker “2” **962**, not visible in the map-region **952c**. At the end of the last phase (in this example the thirist phase) the animation sequence may reverse and
10 the phases may be displayed in reverse order, with the last phase being the first phase where the map-display application was designated **950a** and displayed the map-region designated **952a**.

[124] In an alternate embodiment, a short pause may follow the last phase, prior to the animation sequence being traversed in reverse order. In another alternate embodiment, no
15 reverse traversing of phases may take place. For example, upon reaching the last phase a short pause may take place, in the original map-region may be displayed in the map-display application.

[125] While the invention has been described herein with reference to certain preferred embodiments, these embodiments have been presented by way of example only, and not to
20 limit the scope of the invention. Accordingly, the scope of the invention should be defined only in accordance with the claims that follow.

U.S. PTO
12/29/2002
11/13/2008

PTO/SB/05 (04-05)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL (Only for new nonprovisional applications under 37 CFR 1.53(b))	Attorney Docket No.	WVOHANA
	First Inventor	Jakobson
	Title	Displaying Navigation Information
	Express Mail Label No.	EB 583013309 US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
---	---

1. ☒ **Fee Transmittal Form** (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ **Applicant claims small entity status.**
See 37 CFR 1.27.
3. ☒ **Specification** [Total Pages 36]
Both the claims and abstract must start on a new page
(For information on the preferred arrangement, see MPEP 608.01(a))
4. ☒ **Drawing(s)** (35 U.S.C. 113) [Total Sheets 21]
5. **Oath or Declaration** [Total Sheets 59]
 a. ☒ Newly executed (original or copy)
 b. ☐ A copy from a prior application (37 CFR 1.63(d))
 (for continuation/divisional with Box 18 completed)
 i. ☐ **DELETION OF INVENTOR(S)**
 Signed statement attached deleting inventor(s)
 name in the prior application, see 37 CFR
 1.63(d)(2) and 1.33(b).
 6. ☐ **Application Data Sheet.** See 37 CFR 1.76
 7. ☐ **CD-ROM or CD-R** in duplicate, large table or
 Computer Program (Appendix)
☐ Landscape Table on CD
 8. **Nucleotide and/or Amino Acid Sequence Submission**
 (if applicable, items a. - c. are required)
 a. ☐ Computer Readable Form (CRF)
 b. ☐ Specification Sequence Listing on:
 i. ☐ CD-ROM or CD-R (2 copies); or
 ii. ☐ Paper
 c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ **Assignment Papers** (cover sheet & document(s))
 Name of Assignee _____
10. ☐ **37 CFR 3.73(b) Statement**
 (when there is an assignee) ☐ **Power of Attorney**
11. ☐ **English Translation Document** (if applicable)
12. ☐ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
☐ Copies of citations attached
13. ☐ **Preliminary Amendment**
14. ☒ **Return Receipt Postcard** (MPEP 503)
 (Should be specifically itemized)
15. ☐ **Certified Copy of Priority Document(s)**
 (if foreign priority is claimed)
16. ☐ **Nonpublication Request** under 35 U.S.C. 122(b)(2)(B)(i).
 Applicant must attach form PTO/SB/35 or equivalent.
17. ☐ **Other:** _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation
 ☐ Divisional
 ☒ Continuation-in-part (CIP)
 of prior application No.: 12/151,827.....

Prior application information: Examiner _____ Art Unit: 3664

19. CORRESPONDENCE ADDRESS

☐ The address associated with Customer Number: _____
 OR ☒ Correspondence address below

Name	Atida LLC Attn: Steven Rueben				
Address	3862 Ruskin Street				
City	Las Vegas	State	NV	Zip Code	89147
Country	USA	Telephone	702-419-6460	Email	stevenslip@aol.com

Signature		Date	11/10/08
Name (Print/Type)	Steven Rueben	Registration No. (Attorney/Agent)	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number

Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">For FY 2008</h3>		Complete if Known	
☒ Applicant claims small entity status. See 37 CFR 1.27		Application Number	
		Filing Date	
		First Named Inventor Jakobson	
		Examiner Name	
		Art Unit	
TOTAL AMOUNT OF PAYMENT (\$)		820.00	
		Attorney Docket No. WWOHANA	

METHOD OF PAYMENT (check all that apply)

☒ Check
 ☐ Credit Card
 ☐ Money Order
 ☐ None
 ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: _____ Deposit Account Name: _____

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below
 ☐ Charge fee(s) indicated below, except for the filing fee

☐ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17
 ☐ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	310	155	510	255	210	105	\$515
Design	210	105	100	50	130	65	
Plant	210	105	310	155	160	80	
Reissue	310	155	510	255	620	310	
Provisional	210	105	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	210	105
Multiple dependent claims	370	185

Total Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
 28 - 20 or HP = 8 x \$25 = \$200
 HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
 4 - 3 or HP = 11/10/08 x \$105 = \$105
 HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 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).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
57	100	1	0	0

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

SUBMITTED BY		
Signature		Registration No. (Attorney/Agent)
Name (Print/Type) Steven Rueben		Telephone 702-419-6460
		Date 11/10/08

This collection of information is required by 37 CFR 1.136. 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, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

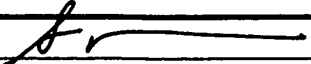
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number

Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4618). <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">For FY 2008</h3>		Complete if Known	
☒ Applicant claims small entity status. See 37 CFR 1.27		Application Number	
		Filing Date	
		First Named Inventor Jakobson	
		Examiner Name	
		Art Unit	
TOTAL AMOUNT OF PAYMENT (\$)		820.00	
		Attorney Docket No. WWOHANA	

METHOD OF PAYMENT (check all that apply)	
☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____	
☐ Deposit Account Deposit Account Number: _____ Deposit Account Name: _____	
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee	
☐ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments	
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.	

FEE CALCULATION							
1. BASIC FILING, SEARCH, AND EXAMINATION FEES							
	FILING FEES <small>Small Entity</small>		SEARCH FEES <small>Small Entity</small>		EXAMINATION FEES <small>Small Entity</small>		
Application Type	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fees Paid (\$)
Utility	310	155	510	255	210	105	\$515
Design	210	105	100	50	130	65	
Plant	210	105	310	155	160	80	
Reissue	310	155	510	255	620	310	
Provisional	210	105	0	0	0	0	
2. EXCESS CLAIM FEES							
Fee Description						Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)						50	25
Each independent claim over 3 (including Reissues)						210	105
Multiple dependent claims						370	185
Total Claims		Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims		
28 - 20 or HP = 8		x	\$25	=	\$200		
HP = highest number of total claims paid for, if greater than 20.							
Indep. Claims		Extra Claims	Fee (\$)	Fee Paid (\$)			
4 - 3 or HP = 11/10/08		x	\$105	=	\$105		
HP = highest number of independent claims paid for, if greater than 3.							
3. APPLICATION SIZE FEE							
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 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).							
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)			
57	- 100 =	/ 50 =	(round up to a whole number) x		= 0		
4. OTHER FEE(S)							
Non-English Specification, \$130 fee (no small entity discount)						Fees Paid (\$)	0
Other (e.g., late filing surcharge):							

SUBMITTED BY			
Signature		Registration No. (Attorney/Agent)	Telephone 702-419-6460
Name (Print/Type)	Steven Rueben	Date	11/10/08

This collection of information is required by 37 CFR 1.136. 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, 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.

PATENT APPLICATION SERIAL NO. _____

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

PTO-1556
(5/87)

11/17/2000 HCEBREH1 00000001 12291802

01 FC:2011	165.00 OP
02 FC:2111	270.00 OP
03 FC:2311	110.00 OP
04 FC:2201	110.00 OP
05 FC:2202	156.00 OP
06 FC:2622	9.00 OP

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

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number

12291862

APPLICATION AS FILED – PART I

(Column 1)

(Column 2)

FOR	NUMBER FILED	NUMBER EXTRA
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A
TOTAL CLAIMS (37 CFR 1.16(i))	28 minus 20 =	8
INDEPENDENT CLAIMS (37 CFR 1.16(h))	4 minus 3 =	1
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))		

* If the difference in column 1 is less than zero, enter "0" in column 2.

APPLICATION AS AMENDED – PART II

(Column 1)

(Column 2)

(Column 3)

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(i))	*	Minus	**	=
	Independent (37 CFR 1.16(h))	*	Minus	***	=
	Application Size Fee (37 CFR 1.16(s))				
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					

AMENDMENT B

	(Column 1)		(Column 2)	(Column 3)
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total (37 CFR 1.16(i))	*	Minus	**	=
Independent (37 CFR 1.16(h))	*	Minus	***	=
Application Size Fee (37 CFR 1.16(s))				
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))				

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

RATE (\$)	FEE (\$)
N/A	\$165
N/A	\$270
N/A	\$110
X \$26 =	208
X \$110 =	110
\$135	
\$195	
TOTAL	863

OR

RATE (\$)	FEE (\$)
N/A	\$330
N/A	\$540
N/A	\$220
X \$52 =	
X \$220 =	
\$270	
\$390	
TOTAL	

TOTAL

SMALL ENTITY

OR

OTHER THAN
SMALL ENTITY

RATE (\$)	ADDITIONAL FEE (\$)
X \$26 =	
X \$110 =	
\$195	
TOTAL ADD'L FEE	

OR

OR

OR

OR

SMALL ENTITY	
RATE (\$)	ADDITIONAL FEE (\$)
X \$52 =	
X \$220 =	
\$390	
TOTAL ADD'L FEE	

OR

OR

OR

OR

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

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

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

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

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. Do NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/291,802	11/13/2008	3664	820	WWOHANA	28	4

CONFIRMATION NO. 7919

Atida LLC
Attn: Steven Rueben
3862 Ruskin Street
Las Vegas, NV 89147

FILING RECEIPT



OC000000033396637

Date Mailed: 12/05/2008

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

Applicant(s)

Gabriel Jakobson, Las Vegas, NV;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 12/151,827 05/08/2008

Foreign Applications

If Required, Foreign Filing License Granted: 12/01/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/291,802**

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

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Method and system for displaying social networking navigation information

Preliminary Class

701

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

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

page 2 of 3

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

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

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

NOT GRANTED

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



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
12/291,802	11/13/2008	Gabriel Jakobson	WVOHANA

CONFIRMATION NO. 7919

FORMALITIES LETTER

Atida LLC
Attn: Steven Rueben
3862 Ruskin Street
Las Vegas, NV 89147



Date Mailed: 12/05/2008

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

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

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

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) are required. The drawings submitted are not acceptable because:
 - Numbers, letters, and reference characters on the drawings must measure at least 0.32 cm (1/8 inch) in height. See Figure(s) 8B.

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

The applicant needs to satisfy supplemental fees problems indicated below.

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

- Additional claim fees of \$52 as a small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$43 for a small entity

- Total additional claim fee(s) for this application is \$52
 - \$52 for 8 total claims over 20.

(A previous payment of \$9 will be applied to the additional fees indicated above.)

Replies should be mailed to:

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

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

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

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

/jmilani/

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

ABSTRACT

5 [126] A mapping system associated with a social network includes determining that a social networking map object (“MO”) is outside a visible area of a map displayed; calculating the direction, distance and travel-time to the MO (e.g. a social network member, a location, a meeting place, etc.), creating an object vector indicator (“OVI”) and displaying the OVI on a map-display application. The OVI may be displayed on the periphery of the
10 displayed map and may be positioned in the general direction of the MO. The position of the electronic device, as well as a current position of the MO, are factored into the calculations and placement of the OVI. The OVI may include a graphical representation, obtained from the social network, of the MO it references.

15

20

25

30

CLAIMS

What is claimed is:

- 5 **1.** A method for displaying object vector indicators (“OVI”) referencing social-networking related map-objects (“MO”) on an electronic map, comprising:
 - providing an electronic device having a map-display application that is coupled to a mapping service and to a social network, and a display for displaying a selected area of the electronic map;
 - 10 obtaining a MO from the social network;
 - determining that coordinates of the MO are not within the selected area of the electronic map;
 - computing distance and travel-related information from a location within the selected area of the electronic map to the MO;
 - 15 computing a placement position of an OVI referencing the MO on the map-display application;
 - creating the OVI containing the distance and travel-related information; and
 - displaying the OVI on the display at the computed placement position.
- 20 **2.** The method of claim 1, wherein the location within the selected area of the electronic map is the center of the selected area of the electronic map.
- 3.** The method of claim 1, wherein the location within the selected area of the electronic map is a location marker.
- 25 **4.** The method of claim 3, wherein the location marker is obtained from the social network.

5. The method of claim 1, wherein the computing the placement position of the OVI step is repeated in response to a change in the position of the MO.

6. The method of claim 1, wherein the computing the placement position of the OVI step is repeated in response to a change in the position of the electronic device.

7. The method of claim 1, wherein the computing the distance-and-travel information includes at least one of the following: an aerial distance to the MO, a travel distance to the MO, a visual indicator pointing in the direction of the MO, and an estimated travel-time to the MO.

8. The method of claim 7, wherein the travel-distance to the MO is computed by selecting a travel route according to various user preferences and travel-route selection algorithms.

9. The method of claim 7, wherein the estimated travel-time to the MO is computed by selecting a travel route according to various user preferences and travel-route selection algorithms.

10. The method of claim 1, wherein the OVI includes a graphical representation of the MO.

11. The method of claim 10, wherein the graphical representation is obtained from the social network.

12. The method of claim 1, wherein the OVI includes contact information of the MO.

13. The method of claim 12, wherein the contact information is obtained from the social network.

14. The method of claim 12, wherein selecting the contact information facilitates an electronic communication.

15. The method of claim 1, wherein the computing distance-and-travel information step is repeated in response to at least one of the following: a change in the position of the electronic device, a change in the position of the MO, and a change in elapsed time

16. The method of claim 1, wherein the computing distance-and-travel information step and the computing the placement position of the OVI step are repeated in response to a change in travel conditions.

17. The method of claim 1, wherein the computing distance-and-travel information step further comprises:
obtaining the position of the electronic device;
transmitting the position of the electronic device to a remote server; and
receiving from the remote server the distance-and-travel information.

18. A method of displaying social-networking information on an electronic map, comprising:
receiving a list of map objects (“MOs”) from a social network;
determining the geographic coordinates of the MOs;
determining that the MOs are outside the bounds of an area of the map visible to a user;
creating an object vector indicator (“OVI”) for each of the MOs; and
displaying the OVIs on the electronic map.

19. The method of claim 18, wherein the creating an OVI step includes calculating a distance, a direction and a travel time from a point on the area of the map visible to the user, to the location of the MO.

20. The method of claim 19, wherein the point on the area of the map corresponds to the location of the electronic device.

5 21. A method for selecting information to display in an electronic map display application coupled with a social network, comprising:
obtaining a map object (“MO”) from a social network;
displaying a first portion of an electronic map generated by the electronic map display application;
10 displaying an object vector indicator (“OVI”);
receiving a user input;
determining that the user input is associated with the OVI;
determining a second portion of the electronic map; and
displaying the second portion of the electronic map by the electronic map display application.
15

22. The method of claim 21, wherein the determining the second portion of the electronic map comprises:
determining the MO referenced by the OVI;
20 determining coordinates of the MO;
panning the electronic map such that the center of the electronic map corresponds approximately to the coordinates of the MO.

23. The method of claim 22, wherein the displaying the second portion of the electronic map includes animation.
25

24. The method of claim 21, wherein the animation includes panning the electronic map in small intervals along a travel route until the center of the electronic map corresponds approximately to the coordinates of the MO.
30

25. The method of claim 24, wherein the travel route spans a distance from a point on the first portion of the electronic map to the MO.

26. A method for creating and displaying an object vector indicator (“OVI”) on an electronic map of a global navigation system (“GPS”) device, comprising:
- a) providing the GPS device having a map display application that is coupled to a social network and a display for displaying a portion of the electronic map;
 - b) receiving coordinates of the GPS device;
 - 10 c) receiving information on a map-object (“MO”) from the social network;
 - d) determining coordinates of the MO from the received information;
 - e) determining a range of coordinates inclusive of the displayed portion of the electronic map;
 - 15 f) calculating that the coordinates of the MO are not within the range of coordinates of the displayed portion of the electronic map;
 - g) creating the OVI to reference the MO;
 - h) calculating the placement of the OVI on the display; and
 - i) displaying the OVI on the display.

20

27. The method of claim 26, wherein the step of creating the OVI includes:
- calculating the direction, distance and travel-time from the position of the electronic device to the MO; and
 - including the calculated data in the OVI.

25

28. The method of claim 26, wherein the step of creating the OVI includes:
- obtaining a graphical image from the social network and including at least a portion of the graphical image in the OVI.

30

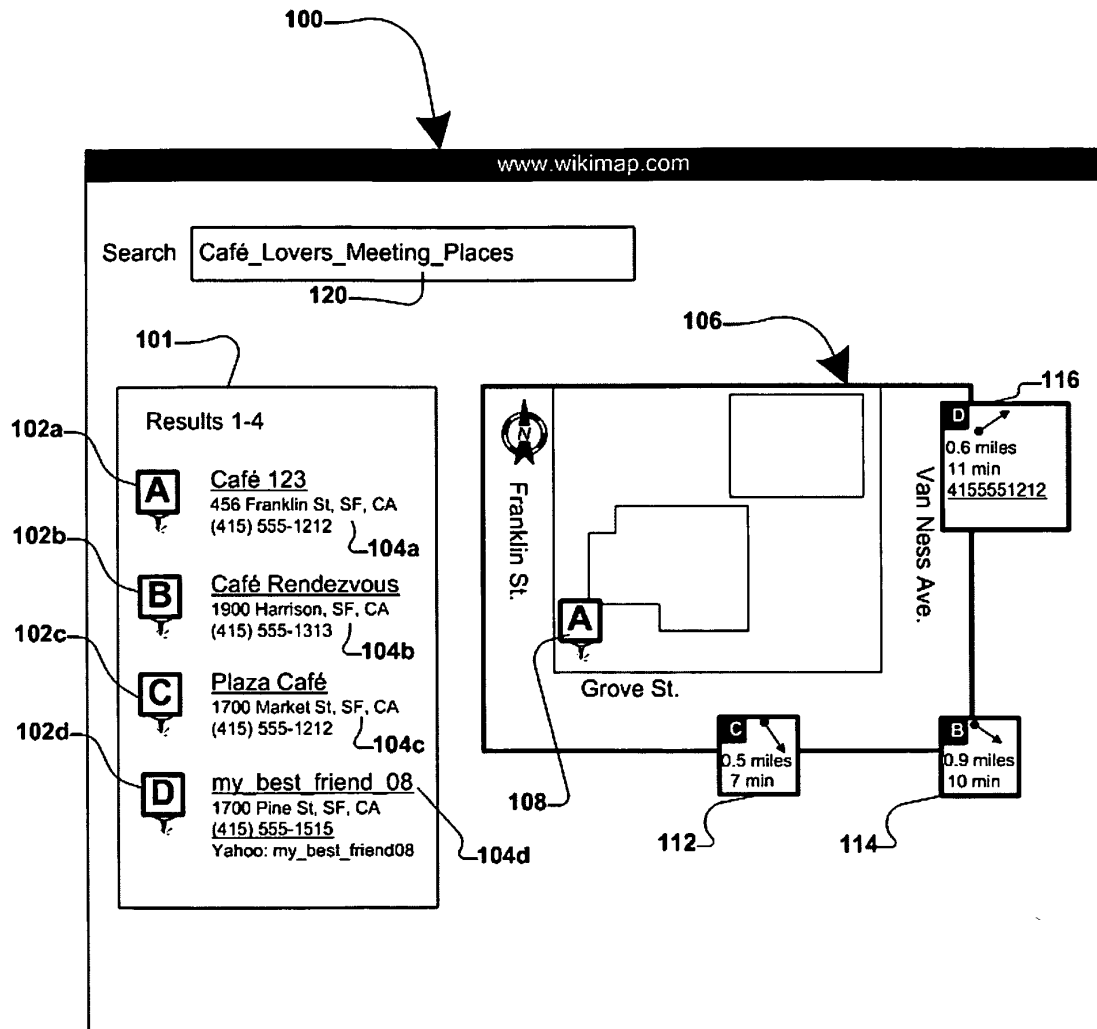


FIG. 1

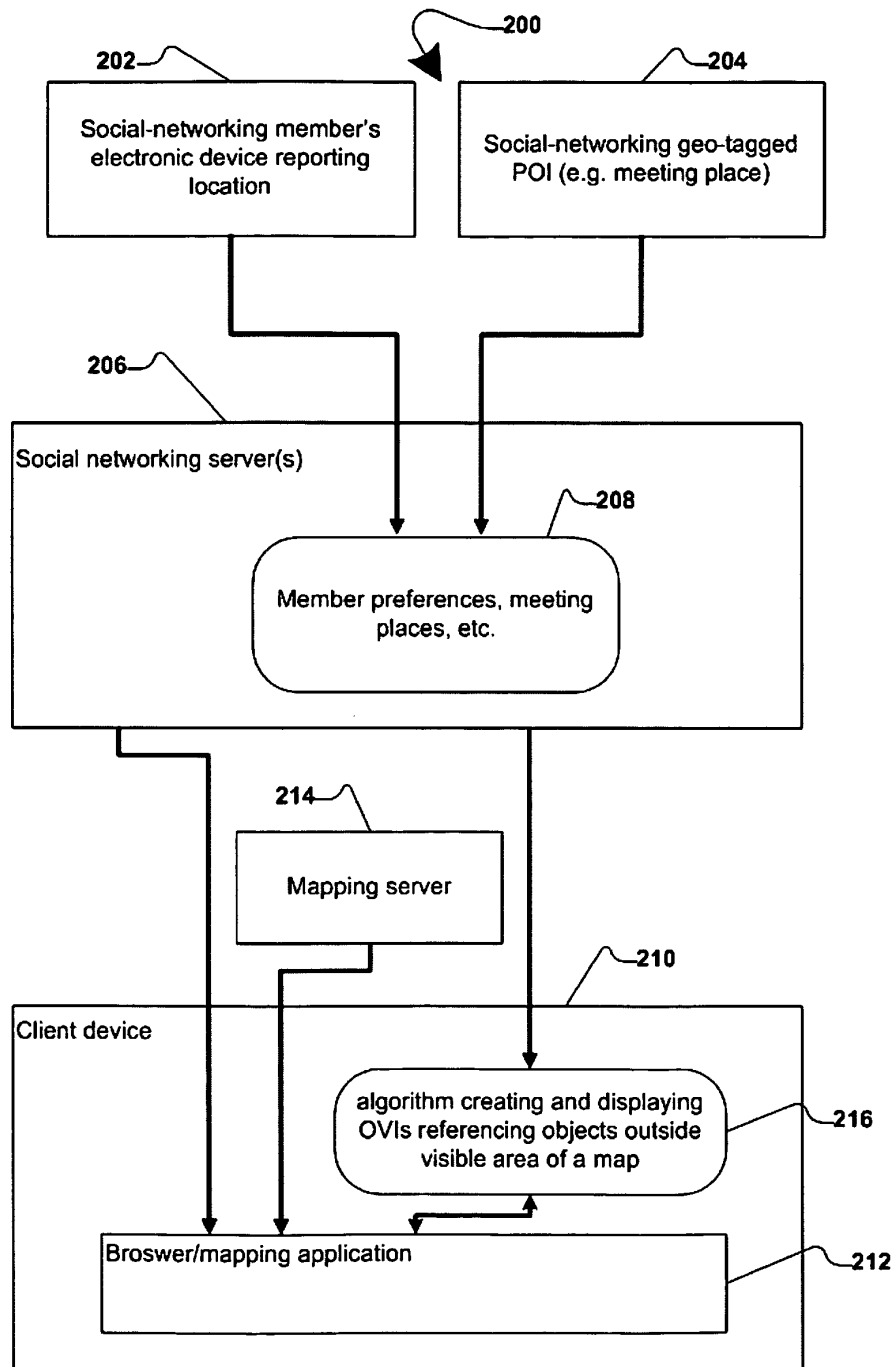


FIG. 2A

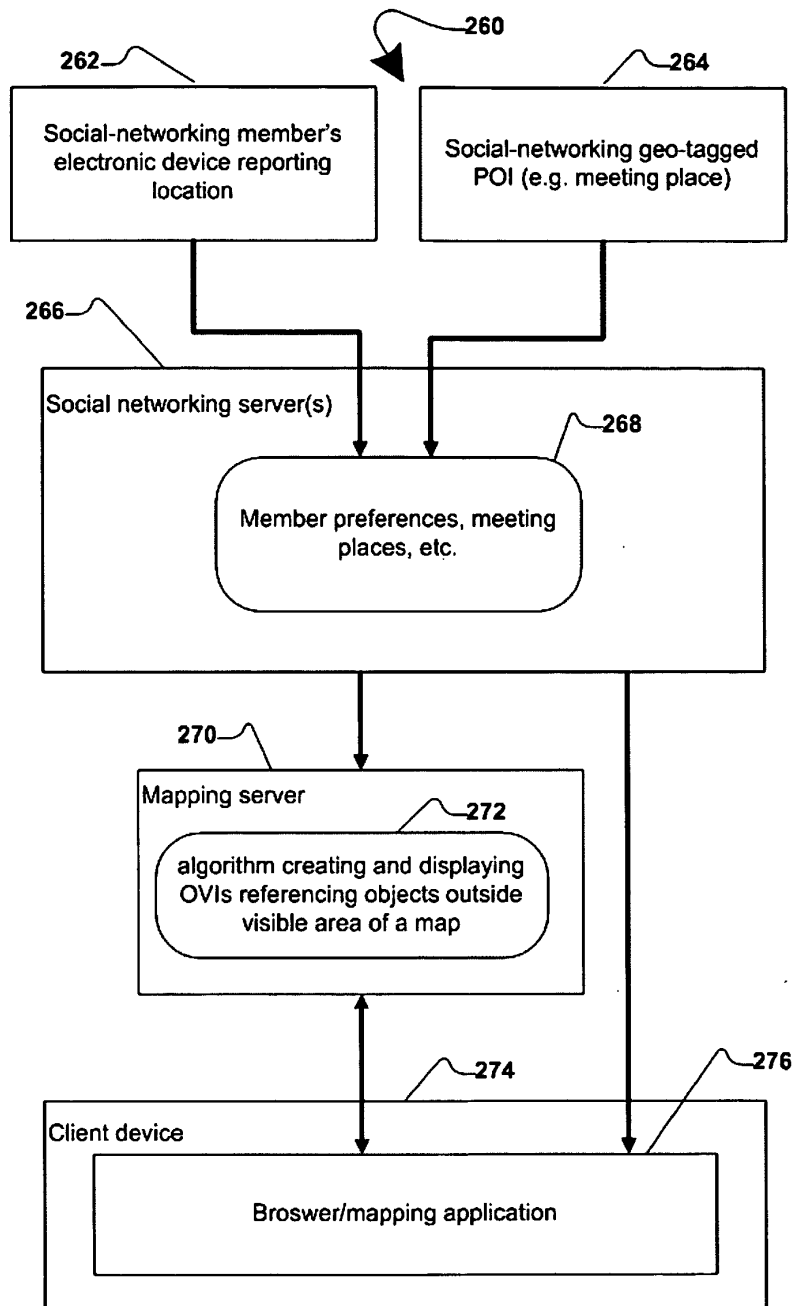


FIG. 2B

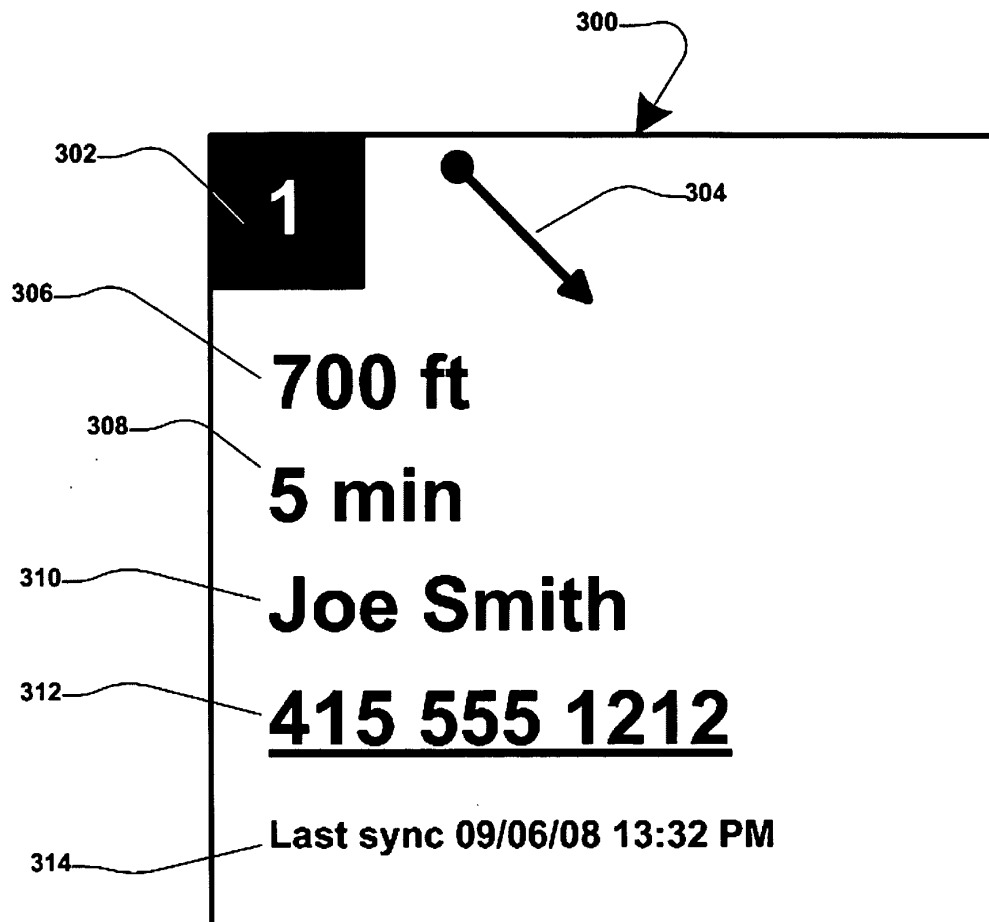


FIG. 3A

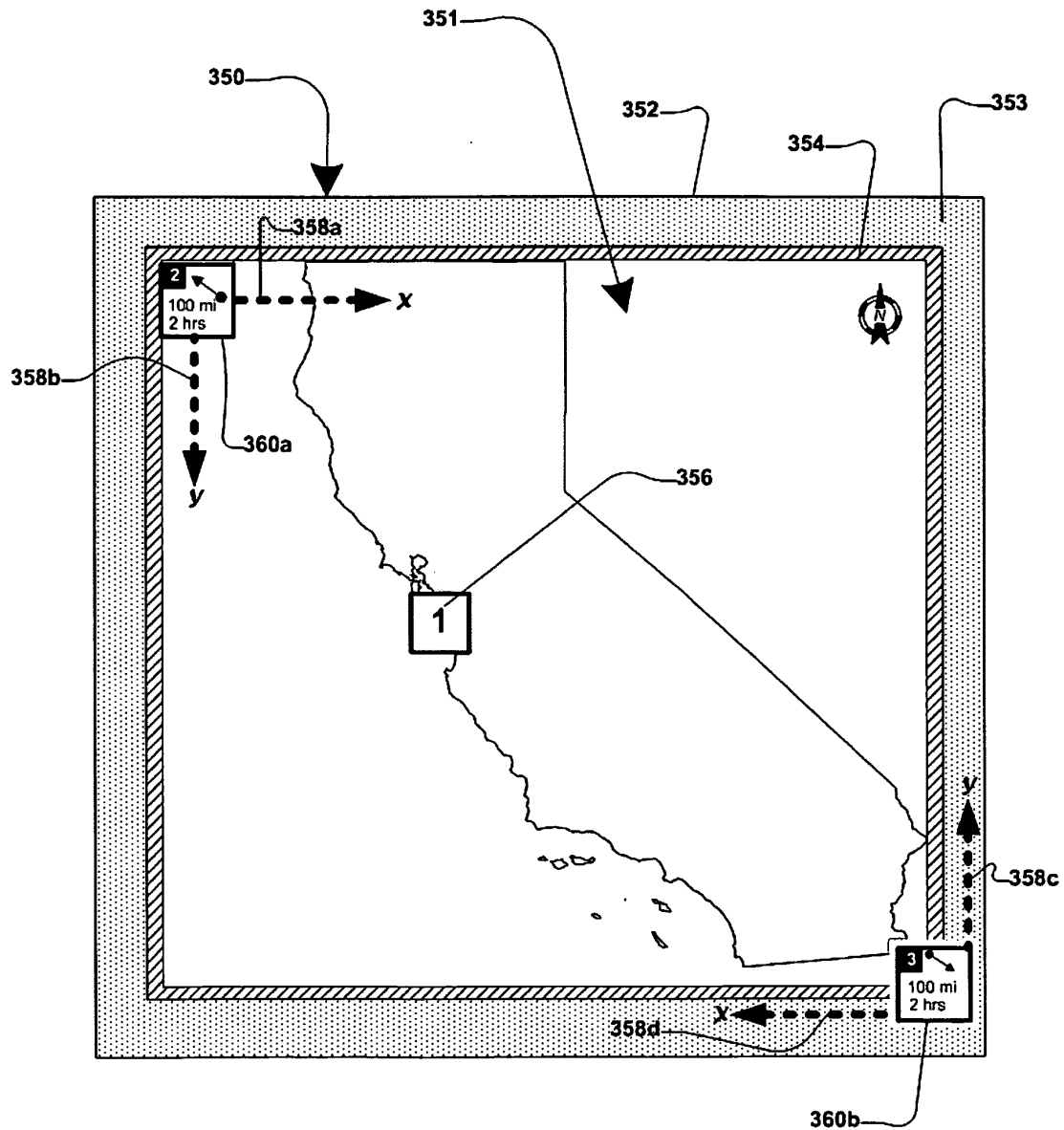


FIG. 3B



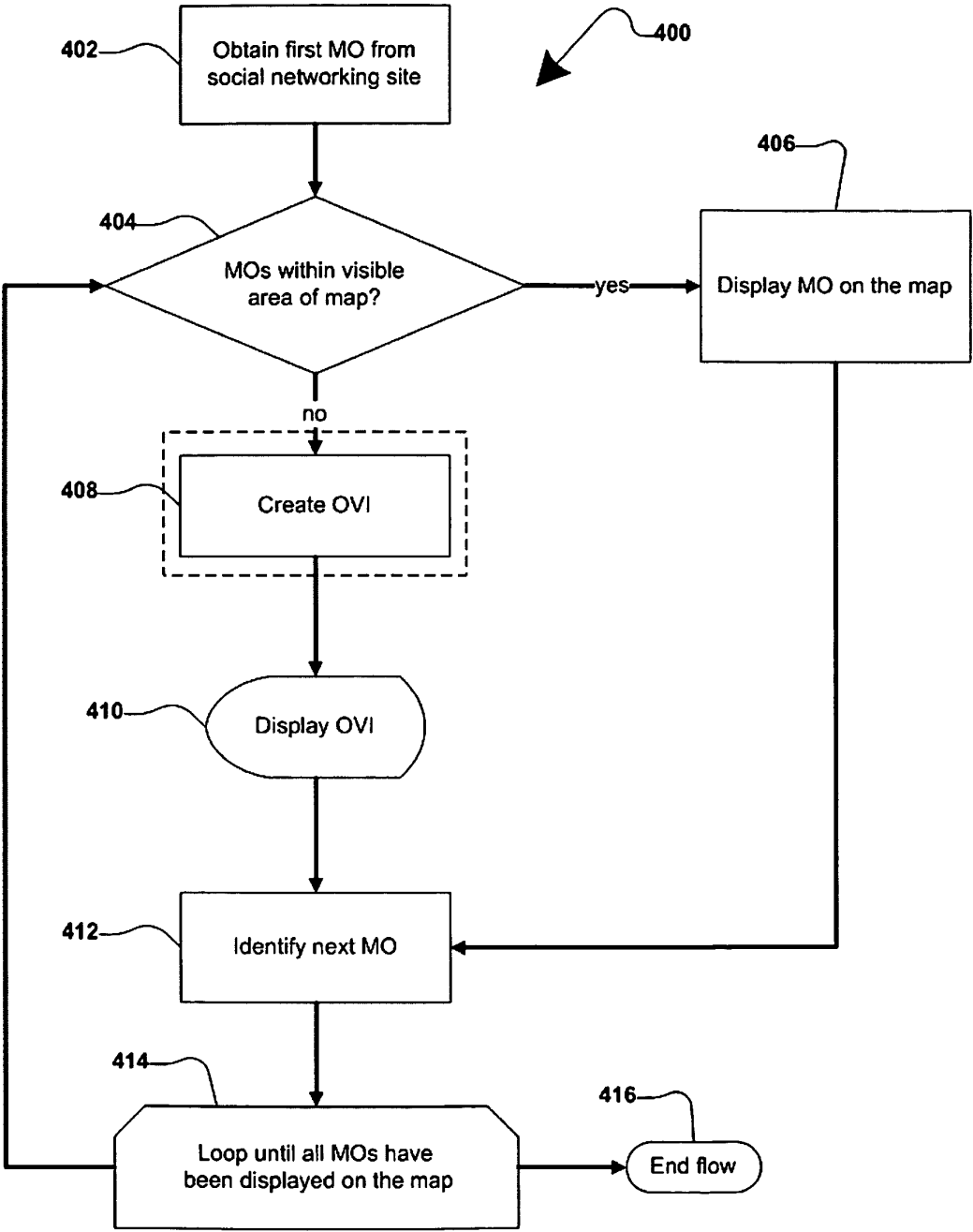


FIG. 4A

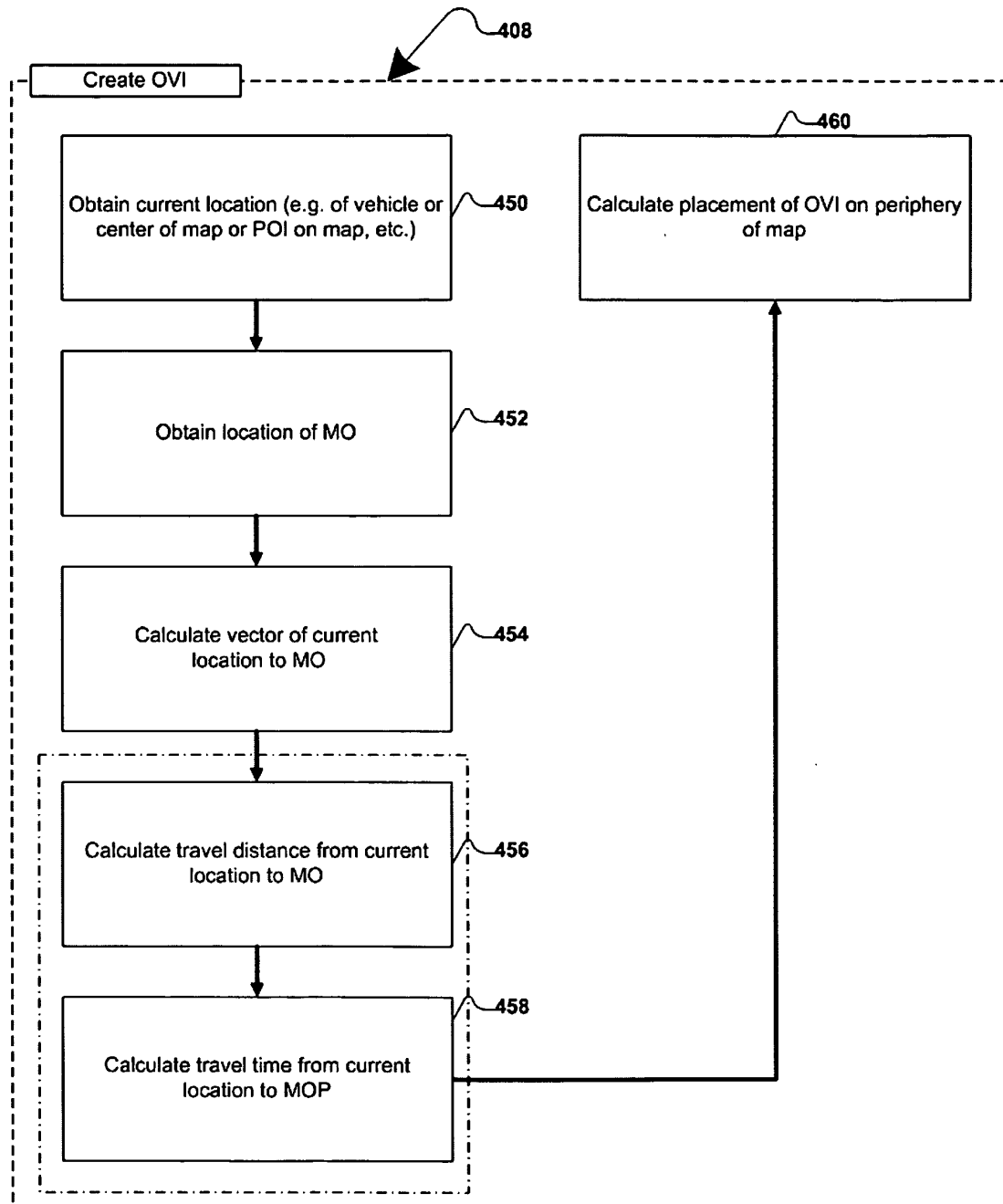


FIG. 4B

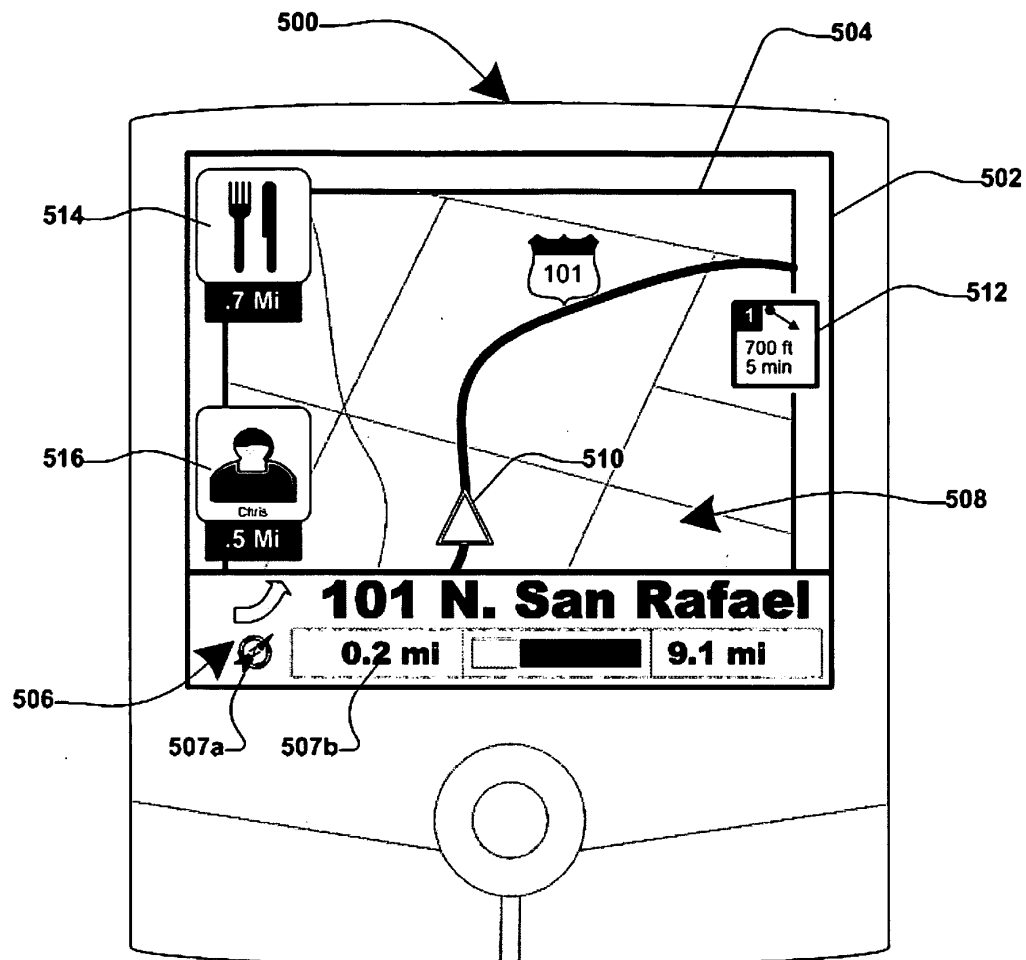


FIG. 5A

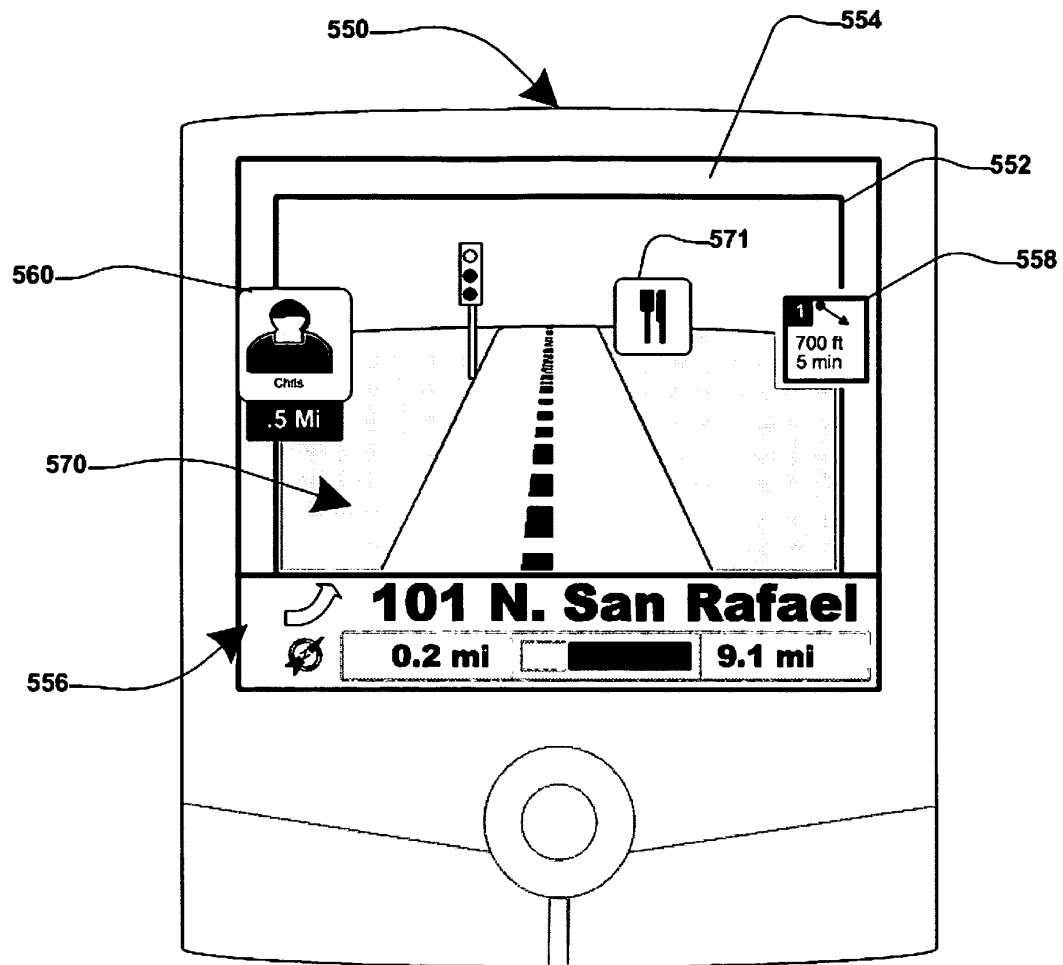


FIG. 5B

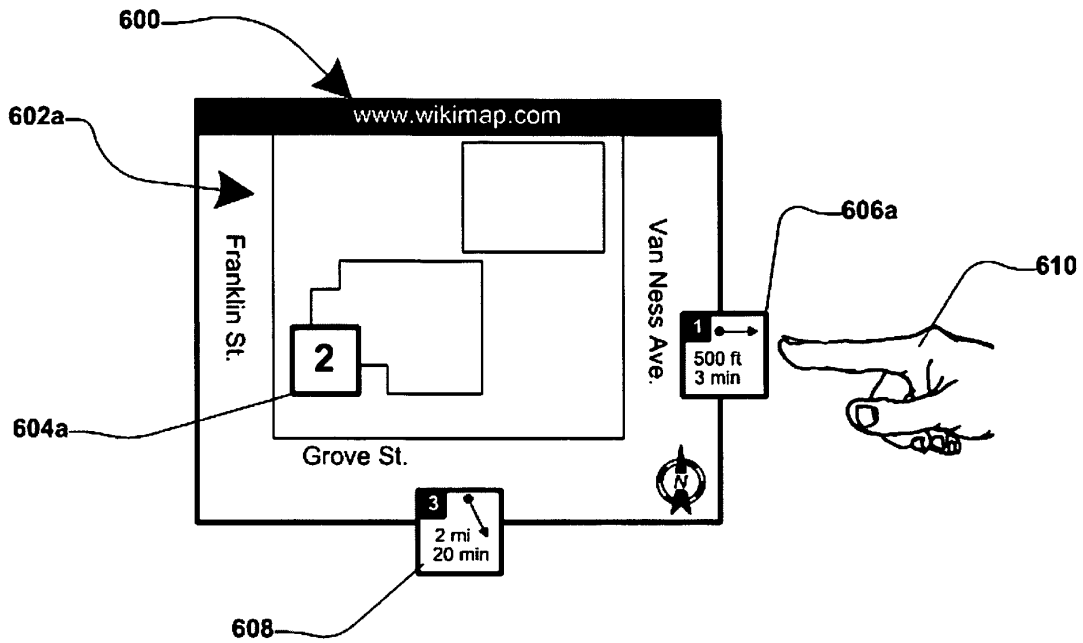


FIG. 6A

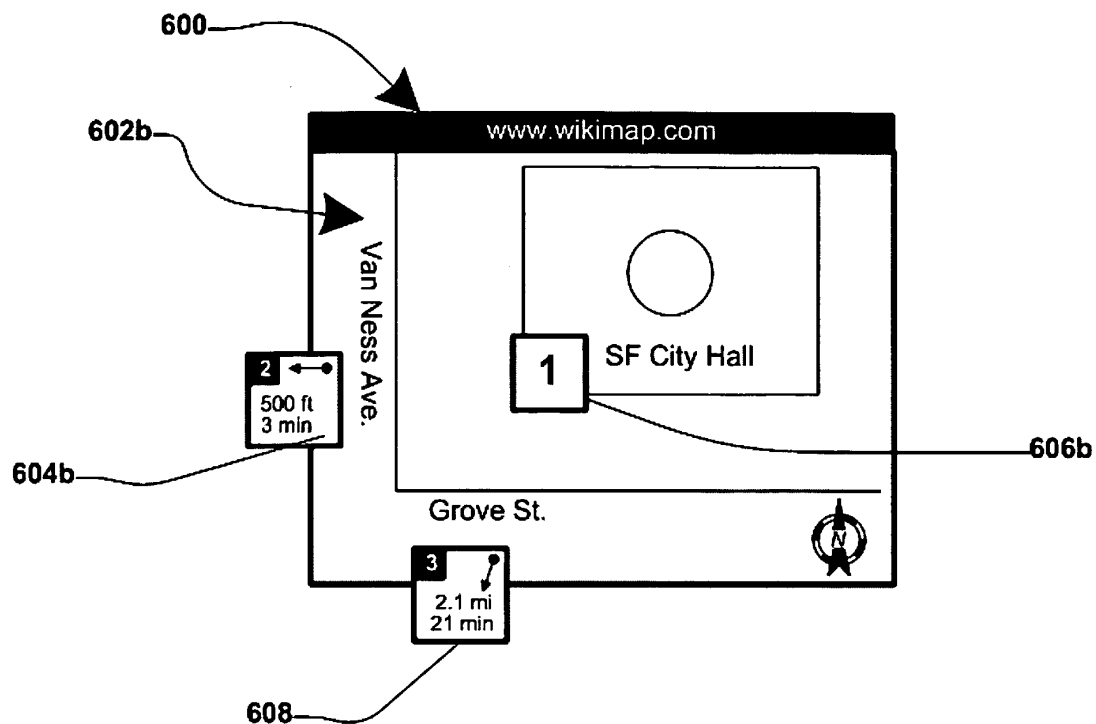


FIG. 6B

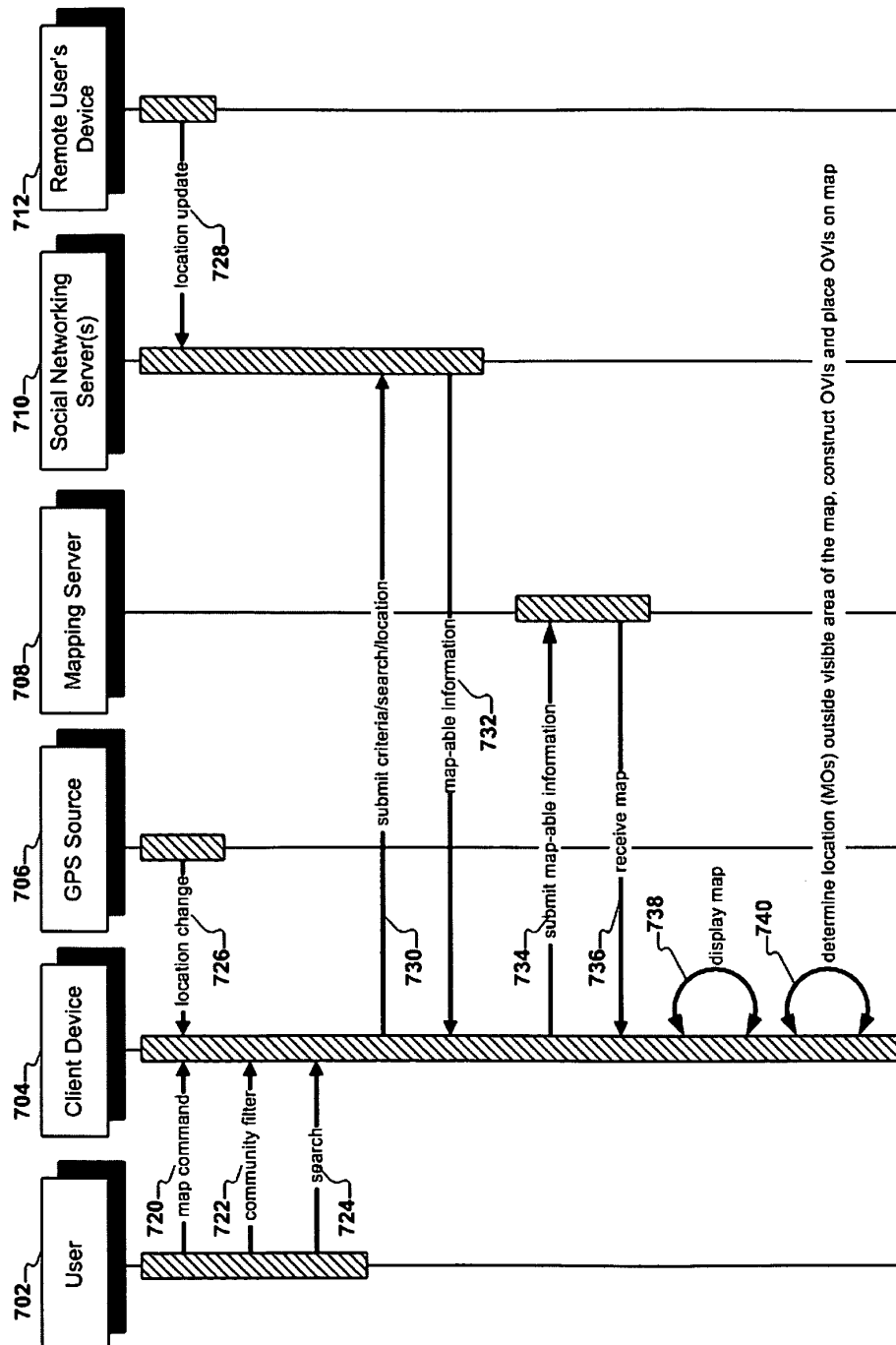


FIG. 7

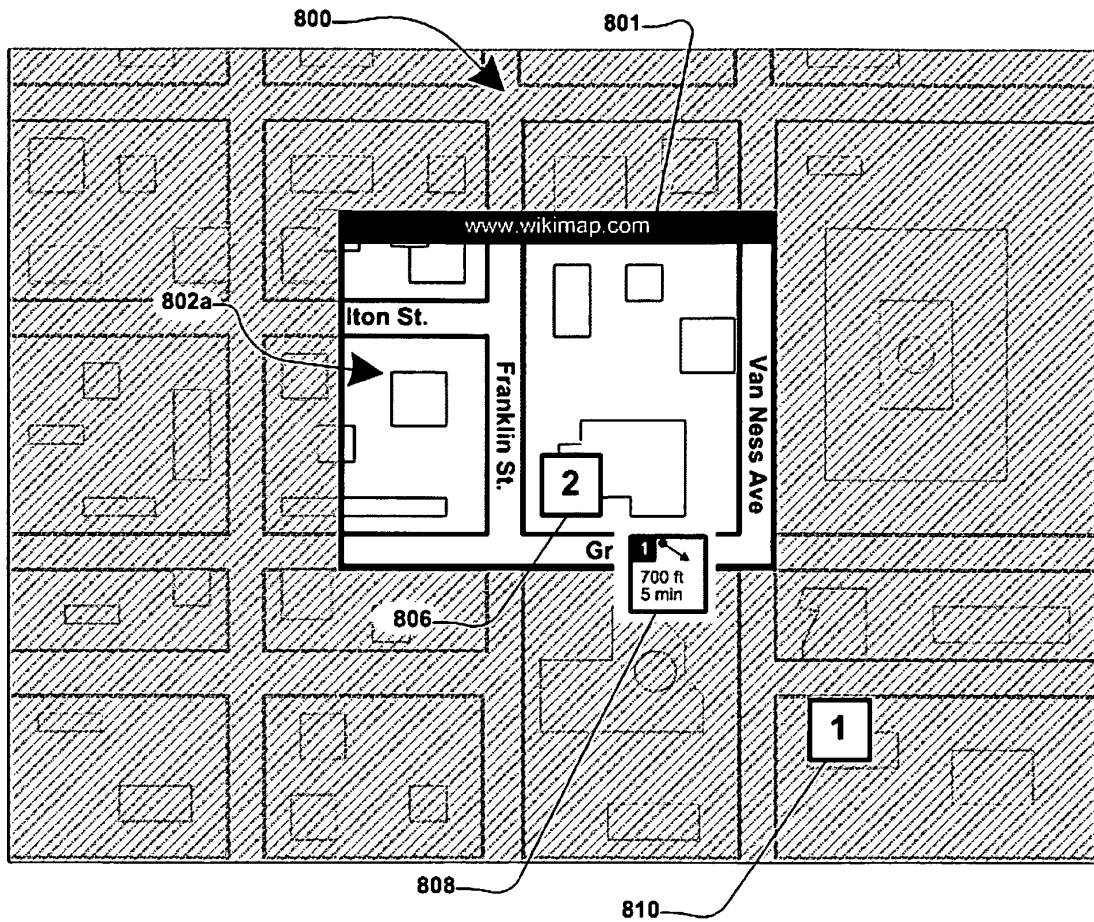


FIG. 8A

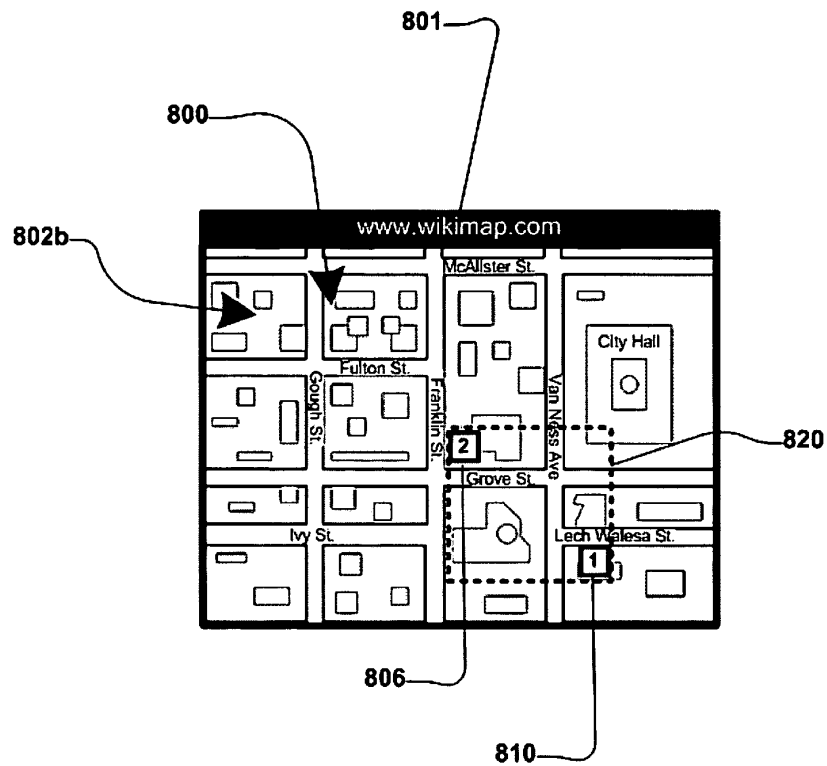


FIG. 8B

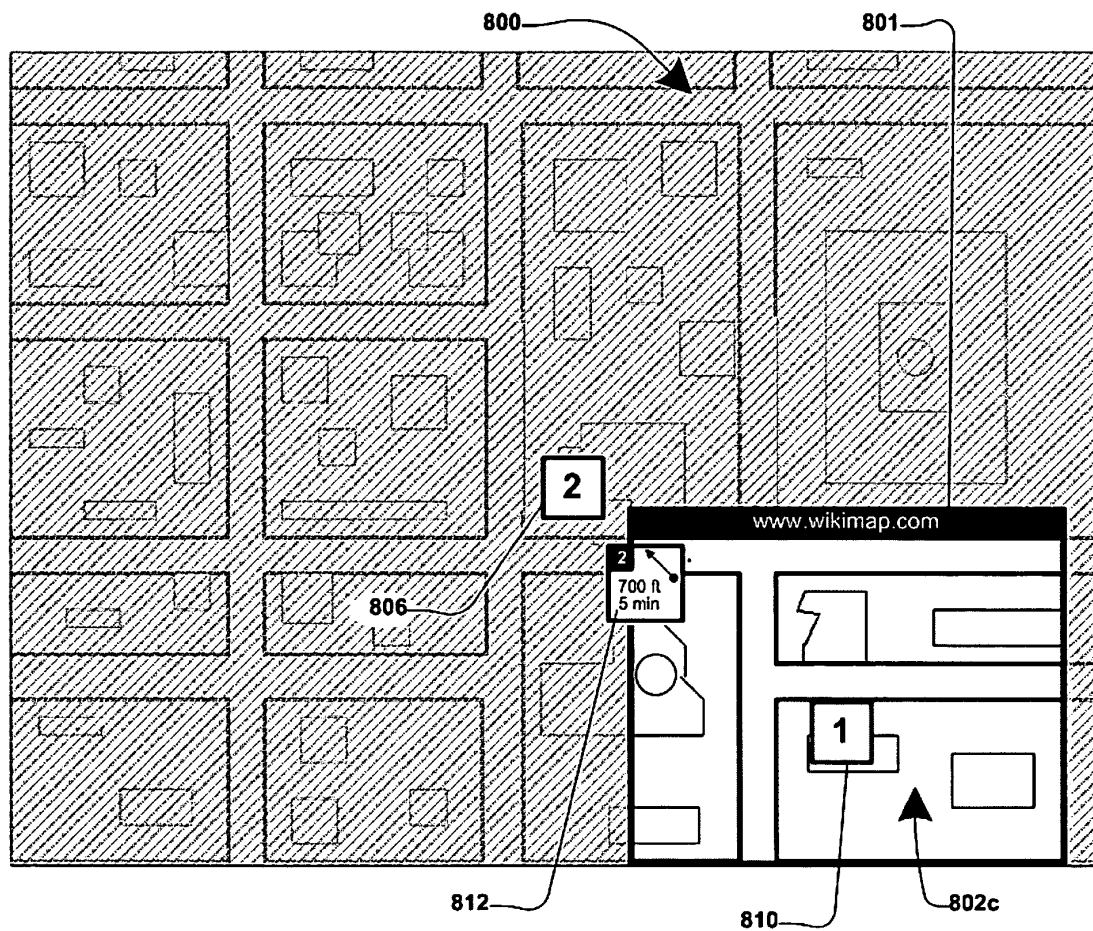


FIG. 8C

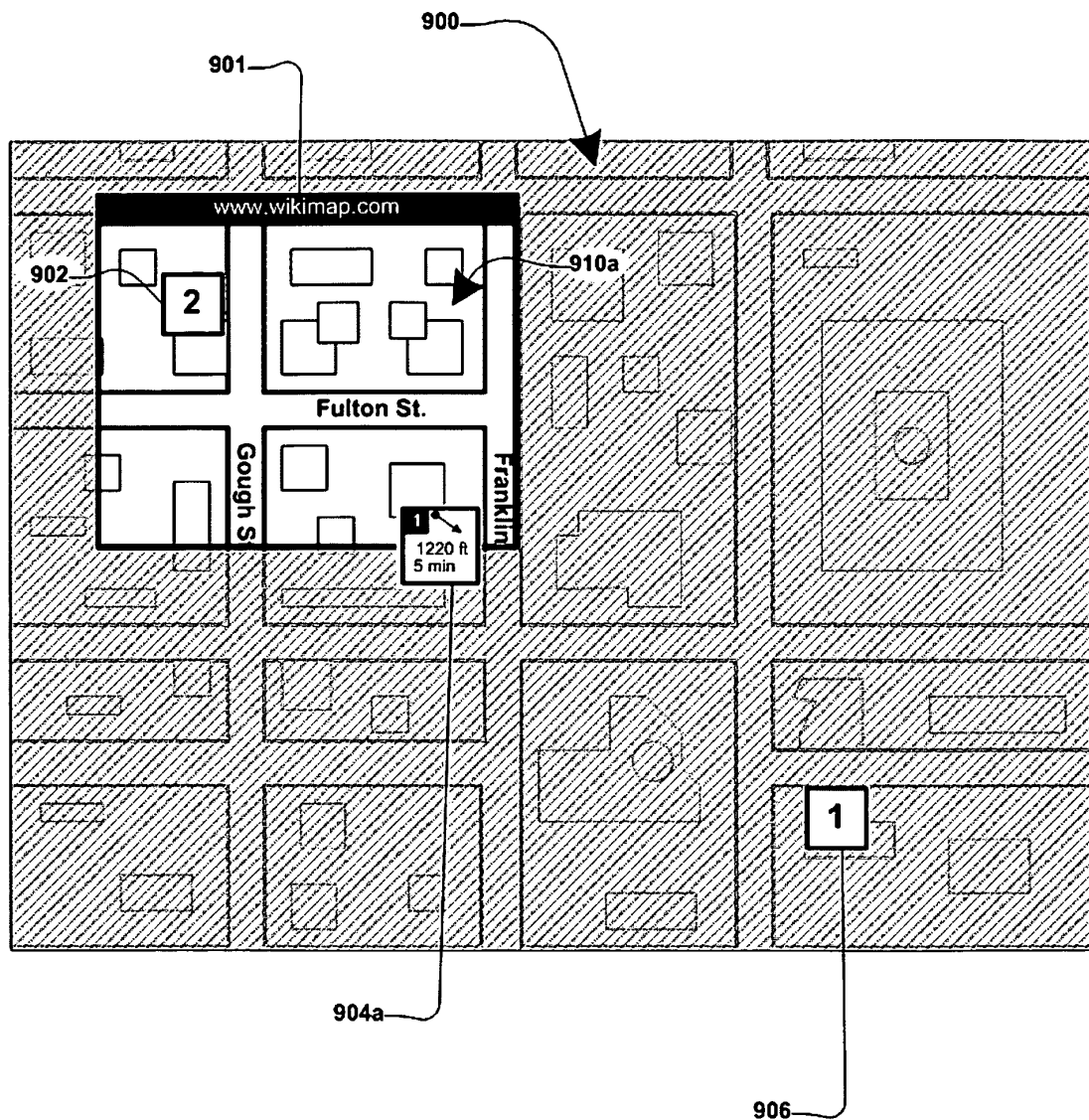


FIG. 9A

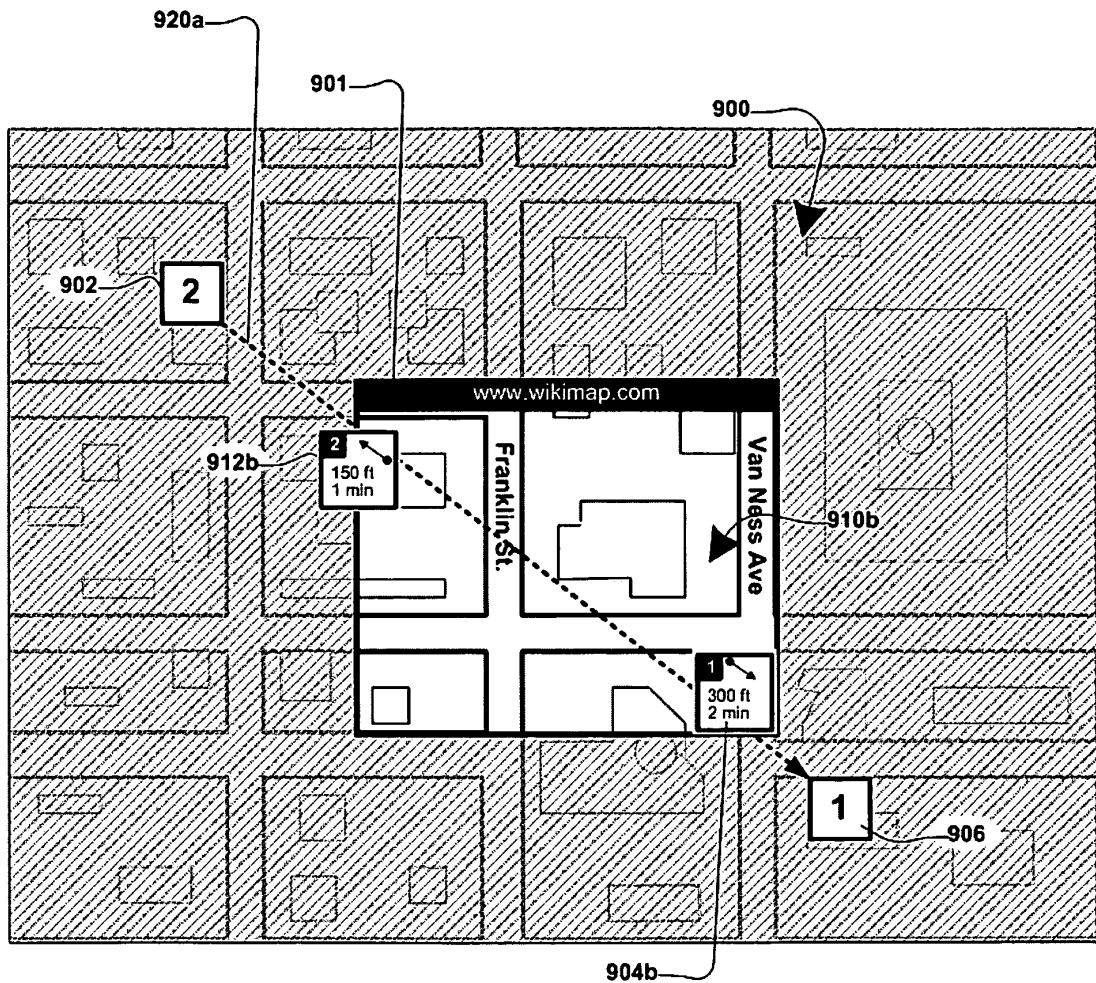


FIG. 9B

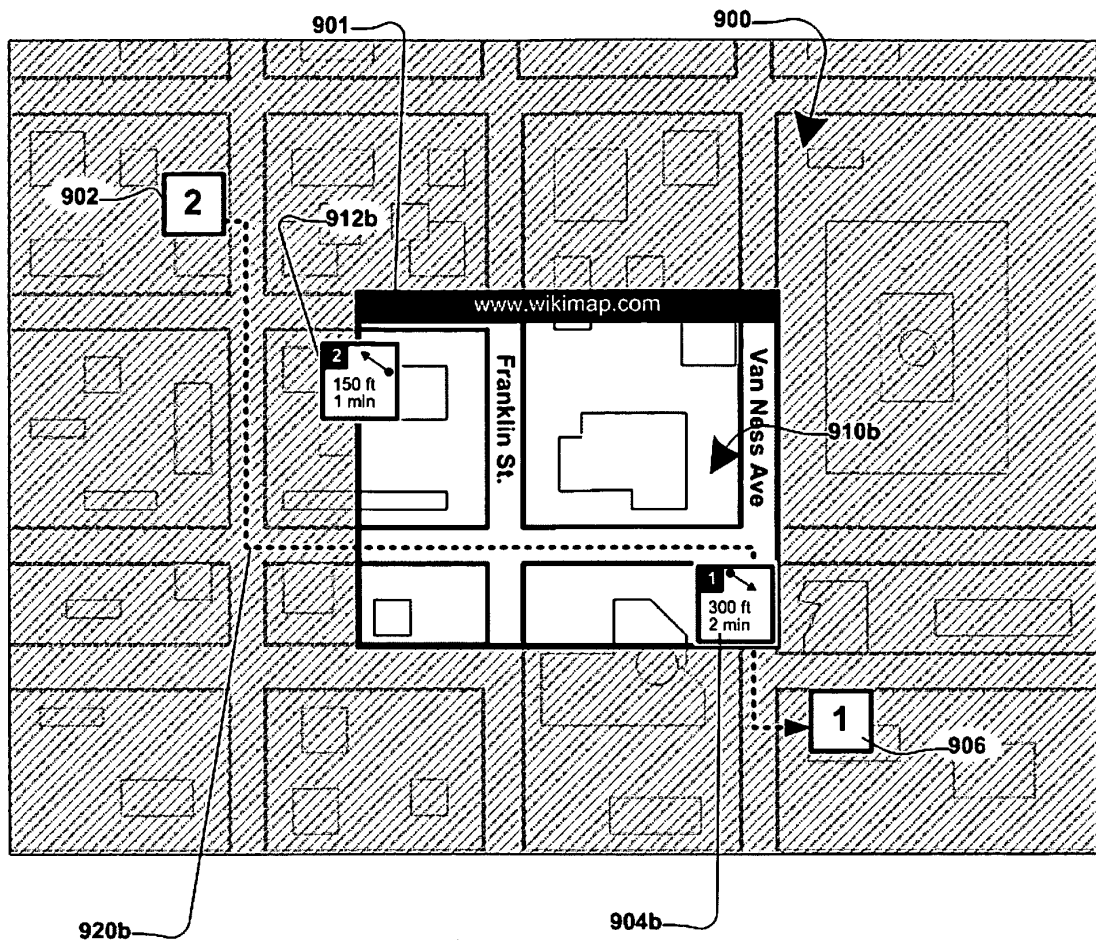


FIG. 9C

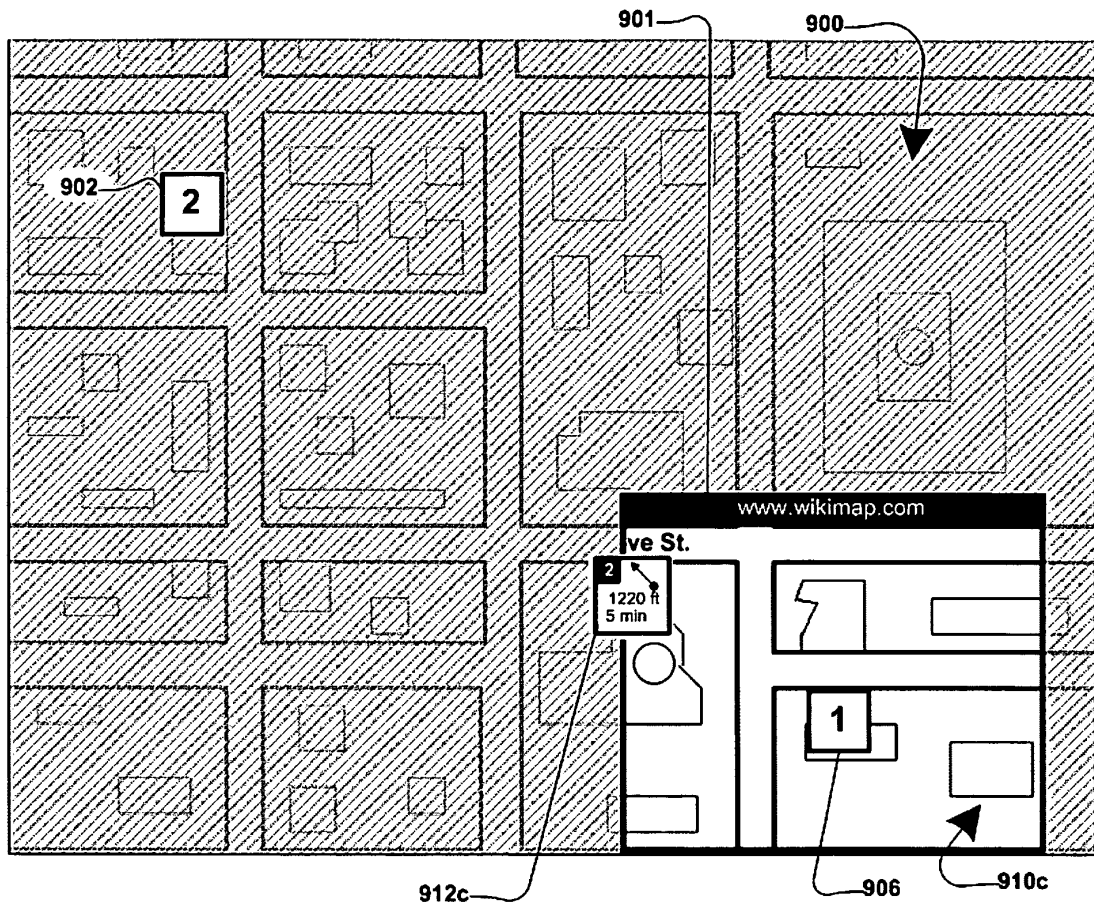


FIG. 9D

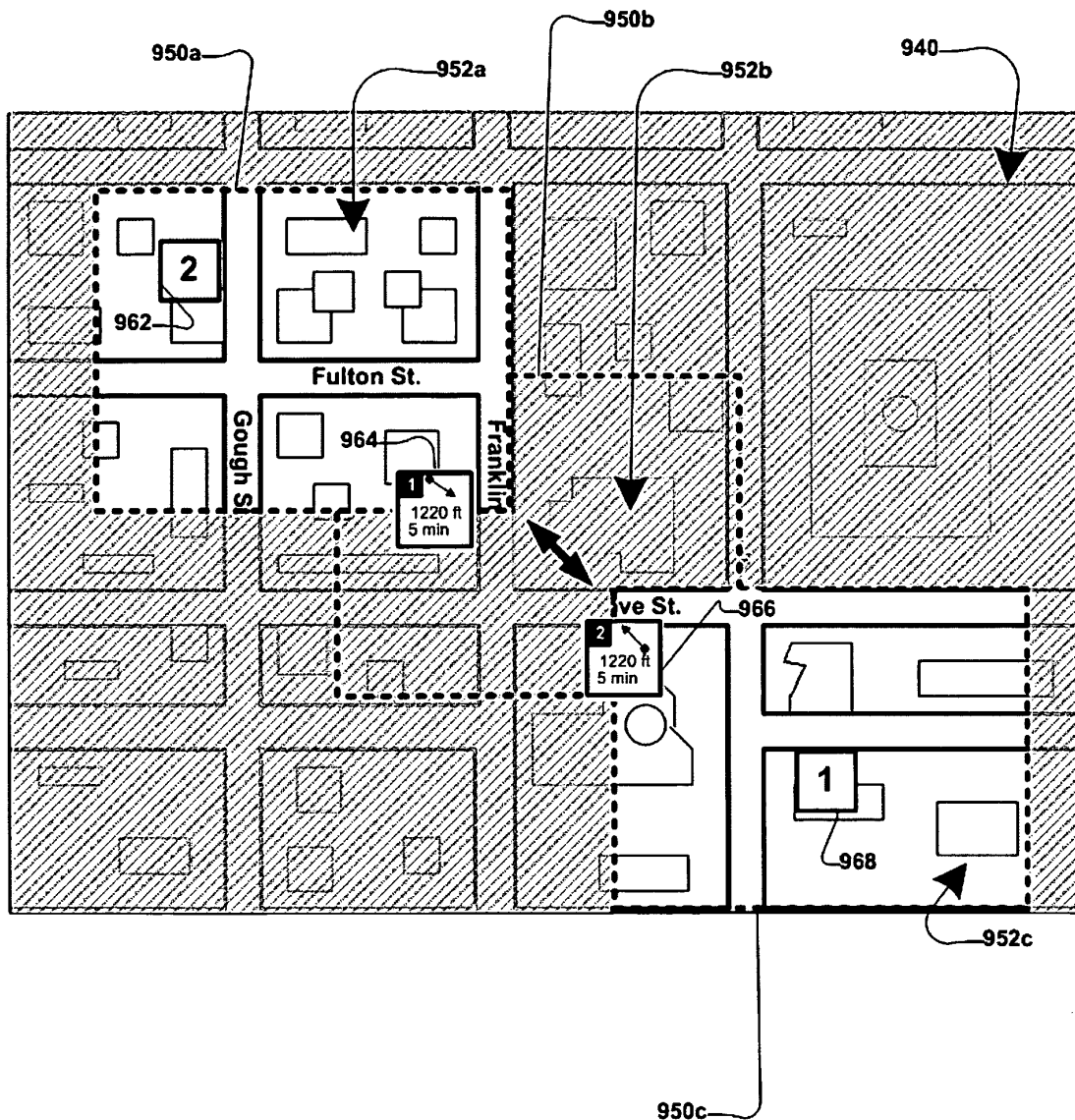


FIG. 9E

12-29-08

IFW/



Atida LLC
3862 Ruskin Street
Las Vegas, Nevada 89147

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450
Mail Stop Missing Parts
Express Mail EH 473701257 US

RE: Application # 12/291,802 Filing Date: 11/13/2008 Docket #: WWOHANA

Commissioner of Patents;

This letter and resubmission of information is in response to the request received from your office dated December 5, 2008.

Please find enclosed:

- A) Resubmittal of Specification with replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) – specifically with adjusted font size to drawing 8B.
- B) Check # 1054 for \$43 to cover additional claim fees for this application of \$52. Your office has advised that there is currently a \$9 credit for this application, so \$43 is due.

This Specification with replacement drawing has NO new matter added.

Respectfully submitted,

Steven Rueben
Atida LLC

Adjustment date: 12/30/2008 RHEBRAHT
11/17/2008 HGEBREH1 00000001 12291802
06 FC:2622 -9:00 OP

12/30/2008 RHEBRAHT 00000074 12291802
01 FC:1202 52.00 OP

SCORE Placeholder Sheet for IFW Content

Application Number: **12291802**

Document Date: **12/24/2008**

The presence of this form in the IFW record indicates that the following document type was received in paper and is scanned and stored in the SCORE database.

- Drawings

Images of the original documents are scanned in gray scale or color and stored in SCORE. Bi-tonal images are also stored in IFW. Defects visible in both IFW and SCORE are indicative of defects in the original paper documents.

To access the documents in the SCORE database, refer to instructions developed by SIRA.

At the time of document entry (noted above):

- Examiners may access SCORE content via the eDAN interface.
- Other USPTO employees can bookmark the current SCORE URL (<http://es/ScoreAccessWeb/>).
- External customers may access SCORE content via the Public and Private PAIR interfaces.

Form Revision Date: December 8, 2006

Patent Application of Jakobson for “Method and System for Displaying Social
Networking Navigation Information”. Docket No. WWOHANA

Page 1 of 57



5

Patent Application of

Gabriel Jakobson

For

10

TITLE

Method and System for Displaying Social Networking Navigation Information

CROSS-REFERENCE TO RELATED APPLICATIONS

15

[001] This application is a continuation-in-part of, and claims priority to, U.S. patent application Ser. No. 12/151,827 filed on May 8, 2008, titled “Method and System for Displaying Navigation Information on an Electronic Map”. The disclosure of the prior application is considered part of and is incorporated by reference in the disclosure of this application.

20

[002] FIELD OF INVENTION

[003] The present invention relates generally to social networking and navigation. More particularly, the present invention relates to displaying information associated with social-networking map-objects (e.g. points-of-interest, way-points, social gathering places, member locations, etc.) that are outside the visible area of a map, within a map-display application.

[004] BACKGROUND OF THE INVENTION

- [005] Popular social networking websites include Facebook™, MySpace™, LinkedIn™, Orkut™, Bebo™, Yahoo! 360™, Hi5™, Friendster, Cyworld™, Windows Live Spaces™, etc. A common facet of social networking is the ability to display objects of common interest on an electronic map. For example, locations of members and meeting places may be displayed on a map. Social-networking related objects, displayed on a map, may be demarcated by symbols indicating points-of-interest (“POI”), way-points (“WP”), business locations, places of interest, members’ residences, members’ meeting places, members’ current locations, members’ places of employment, etc. (collectively referred to inhere as map-objects, or (“MO”)) For example, a user may perform a search for members’ meeting places and the search results may be displayed as symbols on a map, corresponding to the geographic location of the meeting places in the result set of the search. In another common example, a user may request driving directions between social-networking related MOs, in response to which way-points may be displayed on the map, corresponding to geographic points along the plotted route of the driving direction.
- [006] Common mapping-related functionality includes “zoom in” and “zoom out”, which allows the user to see a smaller region at a greater level of detail, and a larger region in less detail, respectively. At present, one or more MOs to be displayed on a map may be outside an area of the map visible to the user (e.g. when the user zooms into an area of the map not including the MO.) The user often may not be able to discern the direction and distance to the MO which is outside the visible area of the map, without (1) panning the map in the general direction of the MO until the visible area of the map includes the MO, and/or (2) zooming out until the visible area of the map includes the MO, and/or (3) in the case of a menu or a hyperlinked-list item referencing the MO, selecting the reference to the MO from the menu/the hyperlinked list item, in response to which the map automatically zooms/pans to include the MO.

SUMMARY OF THE INVENTION

[007] The present invention provides various methods, systems and apparatus for displaying information related to social networking on an electronic map. Social-networking related information, collectively referred to herein as MOs, which are outside a visible area of the map, may be referenced by displaying object vector indicators (“OVI”). The visible area of the map may be determined by a map-display application displaying the map. MOs which are outside the visible area of the map (e.g. in response to a user’s zooming into an area of the map, or panning the map--resulting in the exclusion of an area of the map containing a MO; or MOs generated in response to a user’s search query and/or WPs as part of driving directions, etc., which are outside the visible area of the map) may be referenced by displaying OVIs.

[008] An OVI may be displayed by the map-display application in conjunction with the area of the map displayed by the map-display application. In one embodiment, the OVI may be displayed at the periphery of the area of the map. The OVI may include information referencing the MO, as well as information on the MO’s direction, distance, travel-time to the MO, estimated-time-of-arrival, etc. In various embodiments the MO’s direction, distance, travel time, etc., may be calculated from the current geographic position of the user (e.g. determined via GPS); or alternatively, from an MO on the area of the map visible to the user, that is closest to the center of the visible area of the map; or from the MO selected by the user, etc. The OVI’s position may change or be changed to correlate with the respective positions of the user and the MO referenced by the OVI. Information included in the OVI may change to correlate with the respective positions of the user and the MO the OVI references. An OVI may include symbols indicating the type of MO referenced, and may change in appearance, including a change in the information the OVI displays, in response to various factors such as a change in the coordinates of the user using the map-display application.

DESCRIPTION OF THE DRAWINGS

[009] For a more complete understanding of the present invention and further advantages thereof, references are now made to the following Detailed Description, taken in conjunction with the drawings, in which:

5 [010] **FIG. 1** is a generalized block diagram illustrating displaying object vector indicators (“OVI”) associated with a map which is displaying social networking information, according to one embodiment of the present invention.

[011] **FIGs. 2A and 2B** are generalized block diagrams illustrating the creation of OVIs associated with a social network, displaying information on a map on a client device,
10 according to various embodiments of the present invention.

[012] **FIGs. 3A, 3B and 3C** are a generalized block diagrams illustrating the appearance and positioning of object vector indicators (“OVI”), according to various embodiments of the present invention.

[013] **FIGs. 4A and 4B** are generalized flow diagrams illustrating the creation and
15 displaying of OVIs from data in a social network, according to various embodiments of the present invention.

[014] **FIGs. 5A and 5B** are generalized block diagrams illustrating displaying object vector indicators (“OVI”) in GPS navigation devices, according to one embodiment of the present invention.

20 [015] **FIGs. 6A and 6B** are generalized block diagrams illustrating displaying and utilizing OVIs to move around a map (i.e. pan a map), according to one embodiment of the present invention.

[016] FIG. 7 is a generalize block diagram illustrating various communications between a client device and a social network, allowing a map with OVIs to be created and displayed, according to one embodiment of the present invention

[017] FIGs. 8A, 8B and 8C are generalized block diagrams illustrating displaying object
5 vector indicators (“OVI”) and utilizing OVIs to pan around a map in an automated fashion, according various embodiments of the present invention.

[018] FIGs. 9A, 9B, 9C, 9D and 9E are generalized block diagrams illustrating various
methods for transitioning a region of a map displayed, in conjunctions with OVIs, to allow a
user to visualize the path between location markers, according to various embodiments of the
10 present invention.

[019] DETAILED DESCRIPTION

[020] FIG. 1 is a generalized block diagram illustrating displaying object vector indicators
 (“OVI”) associated with a map which is displaying social networking information, according
 to one embodiment of the present invention. A map display application 100 (e.g. an internet
15 browser), on a computing device (e.g. a personal computer, a personal digital assistant, a
 cellular phone, etc.) may display a visible area of a map 106. The visible area of a map 106
 may represent a small portion of a much larger virtual map—while the larger virtual map
 (e.g. the entire globe, continent, state, city, etc.) may be outside the display area and not
 visible to the user, the portion comprising the visible area of a map 106, may be visible to the
20 user. The visible area of a map 106 may include location markers denoting social networking
 points-of-interest (“POI”) visible to the user. The map-display application 100 may also
 include references to location markers outside a visible area of a map 106.

[021] For example, the user may search a social network with a query “*Cafe-Lovers-
Meeting-Places*” 120. In response to the user query 120, the visible area of a map 106 may
25 be rendered and a resulting list of locations 101 may be displayed

[022] In the prior art, the resulting list of locations **101** may include location marker identifiers **102a-102d**, corresponding to the location markers’ names and descriptions **104a-104d**, respectively. The user may select a location marker identifier “*A*” **102a** in response to which the visible area of a map **106** may re-render and/or zoom and/or pan in a manner
5 allowing the corresponding location marker “*A*” **108** to be visible on the visible area of a map **106**. The location marker “*A*” **108** on the visible area of a map **106** may correspond to the geographic location of the address of “*Café 123*” which is “*456 Franklin St. San Francisco, CA*” **104a**. In prior art, location markers corresponding to locations **104b-104d**, whose geographic coordinates are outside of the visible area of a map **106**, are not displayed. Thus,
10 the user may be unaware of the relative locations and distances of the location markers not visible on the visible area of a map **106**.

[023] In the presently-preferred embodiment of this invention, location markers outside the visible area of a map **106** may be referenced by OVIs, displayed to the user by the map-display application **100**. The location marker identifiers “*B*” **102b**, “*C*” **102c** and “*D*” **102d**,
15 in the list of locations **101**, may be referenced by the OVIs “*B*” **114**, “*C*” **112** and “*D*” **116**, respectively.

[024] For example, the OVI “*D*” **116** may reference a remote location marker, not visible on the visible area of a map **106**, corresponding to the geographic location of the location marker identifier “*D*” **102d**, at location/address/information “*1700 Pine St. , SF, CA, (415) 555-151, Yahoo: my_best_friend08*” **104d**. (A social network may provide member
20 information including name, address, phone number, instant-messenger Id, etc.) Information displayed in the OVI “*D*” **116** may include a vector (e.g. arrow) pointing in the direction of the referenced remote location marker, the distance and travel time to the remote location marker and any other information associated with the location marker identifier (e.g.
25 member’s name, phone number, etc.) Similarly, the other OVIs “*B*” **114** and “*C*” **112** may point to their corresponding remote (i.e. not visible to the user on the visible are of a map **106**) location markers and may contain information about respective distances and travel times.

[025] Please refer to **FIGs. 3A-3C** for more in-depth discussion of OVIs, the data they may contain and their placement on the visual display. **FIGs. 6A and 6B, 8A-8C and 9A-9E** describe various embodiments involving OVIs and their use in electronic maps.

[026] **FIGs. 2A and 2B** are generalized block diagrams illustrating the creation of OVIs
5 associated with a social network, displaying information on a map on a client device, according to various embodiments of the present invention.

[027] Referring to **FIG. 2A**, block diagram **200** illustrates a system displaying social-networking information on a map on a client device, as commonly implemented in the prior art. A social networking service **206** (comprising one or more servers), may include a data
10 store **208**, storing member profiles, locations, preferences, meeting places information, POIs, etc.

[028] An electronic device **202**, used by a member of a social network, may transmit its geographic location to the social network service **206** for recording in the data store **208**. For example, the electronic device may be equipped with GPS (or other means of discerning
15 geographic location such as using cellular phone tower triangulation) and periodically transmit its location to the social networking service **206**.

[029] The social network data store **208** may aggregate information referencing POIs: meeting places, restaurants, events, stores, etc. A POI **204** may transmit its geographic location to the social network data store **208**; or, in other implementations, a web crawler
20 may be used by the social network to seek and aggregate geographic locations, or members of the social network may submit geo-tagged location information to the social network **206**, etc.

[030] A client device **210** (e.g. personal computer, mobile device, etc.) may receive information from the social network **206** and display the information in a mapping
25 application **212**. The mapping application **212** may be a web browsing application or any other application capable of displaying an electronic map containing geographic data,

obtained from the social network **206**. A mapping server **214** (commonly on a network, such as the internet, external to the client device **210**; but, may also be internal to the client device such as mapping software coupled with DVD ROM) may be used to generate mapping data on the mapping application **212**.

- 5 **[031]** In one presently-preferred embodiment, an OVI algorithm **216** may be executed on the client device **210**. The OVI algorithm **216** may be contained in an application, an application module, an object, a DLL, an ActiveX control accessible to the mapping/ web-browser application **212**, or in any other computer code executable by a processor on the client device **210**.
- 10 **[032]** The OVI algorithm **216** may receive mapping data from the social network **206**, from the mapping application **212** and from the mapping server **214**. The OVI algorithm **216** may determine both bounds of a map displayed in the mapping application **212** and the mapping data outside of the determined bounds. The OVI algorithm **216** may create OVIs referencing the mapping data outside of the determined bounds. The OVIs may be displayed by the map
- 15 display application **212**.

[033] Referring now to **FIG. 2B**, in an alternate embodiment illustrated in diagram **260**, a mapping server **270** may include an OVI algorithm **272**. A record store **268** of a social networking service **266** may aggregate social-networking related data from external sources (e.g. social network members **262**, POIs related to social networking **264**, etc.)

- 20 **[034]** A mapping application **276** (e.g. a web browser, a mobile-device mapping application, etc.) on a client device **274** may display social networking mapping data from the social network **266**. A mapping server **270**, external to the client device **270**, may process mapping data related to the social network **266**. The mapping server **270** may generate a map, or map-related graphics (e.g. mapping tiles, graphical representations of POI
- 25 displayed on a map, etc.) which is displayed by the mapping application **276** on the client device **274**.

[035] The mapping server **270** may include OVI display algorithm **272**. The OVI algorithm **272** may receive mapping data and determine bounds of a map displayed in the mapping application **276**. The OVI display algorithm **272** may determine the mapping data outside of the determined bounds. The OVI algorithm **272** may create OVIs referencing the mapping data outside of the determined bounds. The OVIs may be displayed by the map display application **276**.

[036] In alternate embodiments of the present invention, individual algorithms determining social-networking related mapping data outside a visible area of a map, creating OVI and displaying the OVIs, may be implemented in different places (i.e. be part of different hardware and or software components represented in the diagrams **200** and **260**.) In another embodiment, one or more OVI algorithms may be implemented as code in a mapping application, a map-generating application, a social-networking related application, etc.

[037] FIGs. **3A**, **3B** and **3C** are generalized block diagrams illustrating the appearance and positioning of object vector indicators (“OVI”), according to various embodiments of the present invention. An OVI **300** may be rendered in the form of any geometric shape, e.g. a rectangle, and appear in any color, e.g. where the color and/or the color’s intensity bears a meaning, such as distance or travel time. Information associated with the OVI **300** (e.g. a vector **304**, an object reference **302**, a distance indicator **306**, a travel-time indicator **308**, etc.) may be displayed internally or externally to the OVI **300**. In alternate embodiments, the OVI **300** may be an image, an animation of images, or any other graphic.

[038] The manner in which the OVI **300** is displayed, its positioning and information it contains, may be set by user preferences or defaults. The position of the OVI **300** may vary and may shift in response to various factors, such as changing road conditions, the movement of the user of the electronic map, etc.

[039] The object reference **302** (e.g. “*I*”) may be an alpha-numeric character and/or a symbol identifying the MO referenced by the OVI **300**. In an alternate embodiment, a single

OVI may cycles through referencing more than one MO, with the object reference **302** indicating the proper MO throughout the cycle.

[040] The vector **304** may point in the direction of the MO referenced by the OVI **300**. The base of the vector **304** may be oriented with an MO visible to the user. The shape of the vector **304** may be a line with an arrowhead at the end. The orientation of the vector **304** may change in response to the motion of the user. For example, as the user travels North with respect to the MO that is due East, the orientation of the vector **304** may change such that it rotates clock-wise and keeps pointing at the MO.

[041] In alternate embodiments, physical characteristics of the vector **304**, such as length, thickness, color, etc. may correspond to attributes related to the MO referenced by the OVI **300**. For example, traveling in the direction of the MO referenced by the OVI may cause the vector **304** to change shape, color, blink, etc.

[042] The distance indicator **306** may represent the distance needed to travel to reach the referenced MO. The travel distance may be expressed in any unit of measurement, such as English, Metric, etc. and may be based on user preferences, locale settings, distance thresholds (e.g. any distance less than $\frac{1}{2}$ a mile may be expressed in feet), etc. Various methods and algorithms may be used to determine the distance needed to travel (e.g. based on road conditions, method of travel, traffic, etc.) In various embodiments the distance indicator **306** may be in different colors or display modes to indicate various states. For example, for a mobile user traveling along a path between MOs, deviating from an ideal route may cause the color of the distance indicator **306** to change, flash, etc.

[043] The travel-time indicator **308** may represent the time needed to travel to reach the referenced MO. The travel time may be expressed in various ways, for example based on user preferences, locale settings, time thresholds (e.g. travel time less than $\frac{1}{2}$ a hour may be expressed in minutes), etc. Various methods and algorithms may be used to determine the time needed to travel (e.g. based on one way roads, road conditions, method of travel, traffic, speed of travel, etc.) In various embodiments the travel-time indicator **308** may be in

different colors or display modes to indicate various states. For example, for a mobile user traveling along a path between MOs, deviating from an ideal route may cause the color of the travel-time indicator **308** to change, flash, etc.

[044] MO name **310** may identify the name/handle of the social-network member (e.g. “*Joe Smith*”) POI represented by the MO. The MO name **310** may be obtained from a social network. The MO name **310** may be displayed in the OVI **300**, depending on the size constraints, user preferences and other limitations and considerations. In one possible embodiment, the MO name **310** may be selectable by the user and in response to the user selection (e.g. via a pointing device, a touch screen, a voice commands, etc.) additional information related to the MO name **310** may be displayed.

[045] Contact information **312** may enable a user to reach (i.e. electronically transmit information to) the MO referenced by the OVI **300**. For example, the contact information **312** may be a phone number (e.g. “*415 555 1212*”). In one possible embodiment, the contact information **312** may be selectable by the user and in response to the user selection (e.g. via a pointing device, a touch screen, a voice commands, etc.) an electronic communication may be established with the referenced MO (e.g. via a phone call, SMS, email, instant message, etc.)

[046] In cases where the position of the MO and/or the position of the client device displaying the MO **300**, changes, a synchronization date/time stamp **314** may be displayed. For example, if the MO represents a social network member using an electronic device enabled to determine and transmit its location, the last transmission time of the location of the remote member’s electronic device may be displayed (e.g. “*Last sync 09/06/08 13:32 PM*”).

[047] In other possible embodiments, other information may be displayed on the OVI **300**. Information displayed on the OVI **300** may be displayed in varying colors, font sizes and as various different graphical representations.

[048] Referring now to **FIG. 3B**, a map-display application **350** may display a map **351**. The map display application **350** may have two borders: the physical border of the display **352** (e.g. the edges of the LCD display beyond which no data can be displayed) and a displayed border **354**, confining the map **351**. A region **353** between the display-border **354** and the physical border **352**, may be used to display additional information. In another embodiment, the display-border **354** may not exist, or may overlap the physical border **352**.

[049] A location marker **356** may be displayed on the map **351**. Other location markers may exist outside the visible area of the map **351**. For example, a location marker “2” (not shown) may exist north-west of the location marker “1” **356** on the map **351**, outside the visible area of the map **351**. In one possible embodiment, an OVI **360a** may reference the location marker “2”, positioned externally to the visible map **351**. The OVI **360a** may be displayed on the map **351**, and may be bound by the display-border **354**. According to this one possible embodiment, the OVI **360a** may be positioned in close proximity to—or touching—the display-border **354**.

[050] In this one presently-preferred embodiment, the position of the OVI **360a** may change along the “x” axis **358a** and “y” axis **358b**. For example, when the map **351** is displayed while “in motion” (i.e. the user of the electronic device displaying the map **351** is moving and/or the referenced location marker “2” is in motion) the OVI **360a** may be repositioned along the “x” axis **358a**, in response to a relative East-West movement; and along the “y” axis **358b** in response to a relative North-South movement—within the confines of display-border **354**.

[051] In an alternate preferred embodiment, an OVI **360b** may be displayed on top of the display-border **354** (e.g. the display-border **354** may bisect the OVI **360b**). A portion of the OVI **360b** may be displayed on top of the map **351**, another portion may be displayed on top of the display-border **354** and another portion may be displayed over the region **353**. In response to a relative change in the position of the referenced MO (e.g. a location marker “3”—not shown—referenced by the OVI **360b**) the OVI **360b** may move East-West, along the “x” axis **358d**, and/or North-South, along the “y” axis **358c**.

[052] Referring now to **FIG. 3C**, in another alternate embodiment, an OVI **360c** (e.g. referencing a MO “4”—not shown—external to the map **351**, South-West of the location marker **356**) may be displayed on the map **351**. The OVI **360c** may be positioned along an imaginary line **374a**, spanned between the location marker “I” **356** and the MO “4” (not shown).

[053] In one possible embodiment, the positioning of the OVI **360c** along the length “D” **372** of the imaginary line **374a** may be proportionate to the real-life distance between the geographic location denoted by the location marker “I” **356** and the MO denoted by the location marker “4” (not shown.), on a different scale from the scale of the map **351**. The length “D” of the imaginary line **374a** may be defined as the distance between the location marker “I” **356** and the intersection point of the imaginary line **374a** with the display-frame **354**.

[054] For example, the map **351** may be displayed on a scale where 1 inch = 100 miles (as indicated by a scale **380**.) The distance from the location marker “I” **356** to the referenced MO “4” may be 1,000 miles in this example (as indicated by the distance measurement in the OVI **360c**.) The distance “D” **372**—being the length of the imaginary line **374a**—may represent a larger scale, for example, 1 inch=600 miles. Thus the distance “D” **372** of the imaginary line **374a** may represent about 2,000 miles (approximately 3 inches on the map **351**.) In this example, the positioning of the OVI **360c** approximately at the half-way point of the imaginary line **374a**, may serve as a visual indicator to the user that the invisible referenced MO “4” may be approximately 1,000 miles away. The repositioning of the OVI **360c** along the imaginary line **374a**, North-West in the direction of the location marker “I” **356**, may serve as a visual indicator to the user that the invisible referenced MO “4” is getting closer to the location marker “I” **356** and thereby closer to the user and closer to being visible on the map **351**.

[055] An imaginary arched path **374b**, at a radius “RI” **370** from the location marker “I” **356**, may be followed by the OVI **360c** as the invisible referenced MO “4” moves around the location marker “I” **356**. For example, if the user standing at a geographic location

represented by the location marker “*I*” **356** makes a complete 360 degree turn clockwise, the OVI **360c** may sweep along the arc **374b** in a counter-clockwise direction, maintaining the radius “*R1*” **370** as the distance. *R1* may increase or decrease in relation to the change in the distance between the location marker “*I*” **356** and the invisible referenced MO “*4*”, as
5 discussed in the previous paragraph.

[056] In alternate embodiments, various other methods and visual representations may be used to reference MOs external to the map **351**, without departing from the scope and spirit of the present invention.

[057] **FIGs. 4A and 4B** are generalized flow diagrams illustrating the creation and
10 displaying of OVIs from data in a social network, according to various embodiments of the present invention. A map-display application, running on a digital device may be connected to a mapping server. For example, an internet browser on a personal computer/laptop/tablet PC, etc., connected to a mapping service such as Google® Maps, Yahoo!® Maps, Windows® Live Search Maps etc.; a GPS navigation unit such as Garmin®, Magellan®,
15 TomTom® etc. connected to a local mapping server/database such as a mapping DVD or to a remote mapping server and displaying a map through a proprietary map-display application; a cellular/smart phone displaying mapping data through an internet browsing application or a mapping application, etc.

[058] Flowchart **400** illustrates a methodology for displaying OVIs by a map-display
20 application. Upon a triggered event in the map-display application (e.g. in response to a change in zoom/pan, change in data causing a “redraw” or “refresh” command to execute by the map-display application or in response to user input, a programmable “event”, new data from the social network such as a remote user’s device reporting a new location, etc.) a map is displayed and OVIs are created to reference MOs outside the visible area of the map. In the
25 flow **400** all MOs to be displayed on a map (e.g. MOs obtained from a social network) may be traversed and every MO may either be displayed as a location maker—if its location is in the visible area of the map—or as an OVI—if its location is not in the visible area of the map.

[059] At step 402, a first MO may be identified. MOs may be data points in a social network designed to be displayed on a map. For example, street locations of meeting places, current locations of mobile social-network members, etc. The first MO might be the first of any number of MOs demarcated on a map via location markers.

5 [060] At step 404, it may be determined whether the MO is within the visible area of a map. The determination may be made by calculating the geographic bounds of the region of the map displayed by the map-display application, and determining whether the geographic (e.g. longitude/latitude) coordinates of the MO are within the bounds of the visible area of the map (please note that this type of determination is well established in prior art, as map-display
10 applications determine what geographic locations are to be displayed.)

[061] If it is determined at step 404 that the MO is within the bounds of the visible area of the map, at step 406 the MO may be displayed on the visible area of the map of the map-display application. At step 412, the next MO is identified and at step 414 the process is repeated until all MOs have been displayed on the map. Steps 404, 406, 412 and 414 may be
15 repeated until all MOs have been traversed.

[062] If it is determined at step 404 that the MO is not within the bounds of the visible area of the map, at step 408 an OVI may be created to reference the MO. (Please refer to **FIG. 4B** illustrating the creation of an OVI.)

[063] At step 410, the OVI created at step 408 may be displayed. The OVI may be
20 displayed in numerous ways. Please refer to the discussion of **FIGs. 3A-3C** for OVI display embodiments.

[064] At step 412, the next MO may be identified. Step 412 may also be executed following step 406.

[065] If at step 412 another valid MO is identified, step 414 may revert to step 404,
25 examining the new MO identified at step 412. If at step 414 it is determined no valid MO has

been identified at step **412** (i.e. all MOs have been traversed) at step **416** the logic of the flow **400** may end.

[066] Please note that in one embodiment, steps **404**, **406**, **412** and **414** may be implemented, while in other embodiments the additional steps **408** and **410** may be
5 implemented.

[067] Referring now to **FIG. 4B**, steps **450-460** are an illustration of smaller steps comprising the “create OVI” step **408** in **FIG. 4A**.

[068] At step **450**, the current location of the electronic device displaying the map-
displayed application, may be obtained (e.g. via the use of GPS navigation, cellular phone
10 triangulation, etc.) In an alternate embodiment, the geographic location of a MO on the map
(e.g. the MO at the center of the map) may be considered to be the current location.

[069] At step **452**, the location of the MO (identified at step **412** and determined to not be within the visible area of the map of the map-display application at step **404** of **FIG. 4A**), may be determined.

15 [070] At step **454**, a vector from the current location determined at step **450** to the location of the MO determined at step **452**, may be computed. The vector (e.g. an arrow) may represent the direction and distance between the current location and the location of the MO.

[071] At step **456**, the travel distance between the current location determined at step **450** and the location of the MO determined at step **452**, may be computed. The algorithm for
20 computing the travel distance may be based on the medium of travel (i.e. by foot, car, etc.), the optimal choosing of roads, user preferences, etc.

[072] At step **458**, the travel time between the current location determined at step **450** and the location of the MO determined at step **452**, may be computed. The algorithm for
computing the travel time may be based on the medium of travel, the optimal choosing of
25 roads, user preferences, traffic and weather conditions, etc.

[073] At step 460, the placement of the OVI on the map-display application may be determined. Please refer to **FIGs. 3A-3C** for a more complete discussion of various embodiments for placing an OVI in a map-display application.

[074] **FIGs. 5A and 5B** are generalized block diagrams illustrating displaying object vector indicators (“OVI”) in GPS navigation devices, according to one embodiment of the present invention. GPS navigation devices (e.g. used in car navigation) may display way-points (“WP”) or points-of-interest (“POI”) collectively referred to herein as map-objects (“MO”). In association with social networking, GPS navigation devices may display MOs denoting the locations of places of interest, present locations of mobile members, etc.

10 [075] In the prior art, only MOs within the bounds of a visible portion of a map are displayed. MOs outside the bounds of the visible portion of the map are not displayed. A MO that is the next way-point or destination in travel directions, may be referenced. For example, referring to **FIG. 5A**, a GPS navigation device 500 may display a visible area of a map 508 in a map-display application 506. A direction-indicator 507A and a distance indicator 507b
15 may reference the next MO along a travel route. However, no other MOs are referenced, in the prior art.

[076] In one preferred embodiment of this invention, OVIs 512, 514 and 516 may be displayed by the map-display application 506, referencing MOs which are outside the area of the map 508 visible to the user through the map-display application 506. The OVI 512
20 may display information referencing a MO “I” outside the visible area of the map 508. The OVI 512 may indicate the direction of the MO it references (e.g. via an arrow), the distance to the MO (e.g. “700 ft”) and the travel time to the MO (e.g. “5 min.”)

[077] An OVI may display a symbol indicating the nature of the MO it references, along with other relevant information, such as the distance, etc. For example, the OVI 514 may
25 include a prominent symbol related to eating—such as a knife and fork—which may indicate and social network gathering place/restaurant. The OVI 516 may display a prominent symbol of a person, indicating a location/position of a social network member. In various possible

embodiments, the symbol of the person may be an icon, an image of the social network member, etc. .

[078] The distance indicators in the OVIs **512**, **514** and **516** may be measured from the current location of the vehicle/user, commonly indicated by a symbol **510** on the map **508**. In response to a change in the location of the vehicle/user, the positioning of the OVIs **512**, **514** and **516**, and information the OVIs contain (e.g. distance), may change. The OVIs **512**, **514** and **516** may be displayed on the periphery of the map-display application **506**. In one embodiment, the map-display application **506** may contain a physical border **502** (i.e. the physical edge of the display) and a display-border **504** (i.e. the edges of the visible area of the map **508**.) The OVIs **512**, **514** and **516** may be displayed overlaying the display-border **504** (i.e. extending farther towards the physical border **502** than the visible area of the map **508**, which may be confined to within the border **504**.) In alternate embodiments, the OVIs may be displayed in various other ways, as illustrated and discussed in **FIGs. 3A-3C**.

[079] Referring now to **FIG. 5B**, a GPS navigation device **550** may display a graphic **570**, which may correlate to a physical map, from the perspective of a driver. In prior art, a MO **571** (e.g. a location marker with a symbol for a restaurant) may be displayed by the graphic **570**, representing the approximate location of the MO, from the perspective of the viewer (i.e. the driver.) The MO **570** must be within the field-of-view of the user (i.e. driver) albeit at a certain distance (i.e. down-the-road.)

[080] In the present embodiment, OVIs **558** and **560** may be displayed by a map-display application **556**, to indicate MOs not visible on the graphic **570** (i.e outside the field-of-view of the user/driver.). The placement of OVIs may be computed such that, from the perspective of the user/viewer/driver, the top of the display frame **552** may be considered “in front”; the left and right sides of the display frame **552** may be considered “left of” and “right of”, respectively; and the bottom of the display frame **552** may be considered “behind”.

[081] As a vehicle that mat be associated with the GPS navigation device **550**, in this example, moves and its own position is recomputed, the OVIs **558** and **560** may be

repositioned accordingly. In this example, the OVI “1” **558**, positioned along the right side of the display border **552**, may indicate its referenced MO is to the right of the vehicle (i.e. of the GPS navigation device **550**), outside the user/viewer/driver’s field-of-view. Information associated with the OVI **558** (e.g. direction, distance, time-of-arrival, etc.) may be displayed
5 inside of—or in close proximity to—the OVI **558**. Similarly, the OVI “2” **560**, positioned left-of-center along the top of the display border **552**, may indicate the MO (e.g. a social network member “Chris”) the OVI “2” **560** references is to-the-left of the vehicle (i.e. of the GPS navigation device **550**).

[082] In alternate embodiments other methods of displaying OVIs in GPS navigation units
10 may be employed. OVIs may bear different shapes, colors, move in different directions, contain various different information, etc.

[083] **FIGs. 6A** and **6B** are generalized block diagrams illustrating displaying and utilizing OVIs to move around a map (i.e. pan a map), according to one embodiment of the present invention. Electronic devices, displaying digital maps, commonly allow a user to interface
15 with the map via inputs (e.g. a touch screen, a computer mouse, a keyboard, buttons, voice interface, etc.)

[084] In the presently-preferred embodiment, a MO (e.g. a social-networking related location marker) which is visible to the user on a region of a map, may alter its form to an OVI, referencing the MO, in response to a shift (e.g. a pan) of the region of the map, such
20 that the MO is no longer visible on the region of the map. For example, a location marker may be displayed on a region of a map. The region of the map may shift right, in response to a user’s panning the map to the left. The location marker may shift right with the rest of the region of the map, maintaining its geographic position. Once the region of the map has shifted right sufficiently for the location marker to become invisible to the user, the location
25 marker may be replaced with an OVI, referencing the theoretical position of the location marker (now invisible to the user.)

[085] Referring to FIG. 6A, a map-display application 600, running on an electronic device (e.g. a computer, a personal digital assistant, a mobile device, a GPS navigation unit, etc.) may display a map region 602a. The map region 602a may include one or more location markers, such as a location marker “2” 604a. The map-display application may display one
5 or more OVIs, referencing map objects (“MO”) that are not visible to the user of the map-display application 600.

[086] In this example, an OVI 608, displayed South/South-East of the location marker “2” 604a, on the periphery of the map region 602a, may contain the information “3, 2 mi, 20 min”, referencing a location marker labeled “3” which is 2 miles and a 20 minute travel time,
10 due South/South-East of the location marker “2” 604a. Similarly, an OVI 606a, displayed East of the location marker “2” 604a, on the periphery of the map region 602a, may contain the information “1, 500ft, 3 min”, referencing a location marker labeled “1” which is 500 feet and a 3-minute travel time, due East of the location marker “2” 604a.

[087] In the presently-preferred embodiment, the user may use an input device (e.g. the
15 illustrated “hand/finger” 610, a stylus, a button, a keyboard, a mouse, voice instructions, etc) to select an OVI. Selecting an OVI may cause the map region displayed in the map-display application 600 to pan such that the selected OVI is visible in the new map region displayed. In another preferred embodiment, the new map region may be displayed (i.e. panned to) such that the geographic location indicated by the OVI selected is centered in the new map region
20 displayed. In alternate embodiments, selecting an OVI may pan and zoom a map such that the visible map region includes both the originally-centered location marker and the newly-selected location marker, referenced by the selected OVI.

[088] In this example, selecting the OVI “1” 606a may cause the map region 602a and the OVIs 606a and 608, displayed by the map-display application 600, to change. Referring now
25 to FIG. 6B, in response to the user’s selecting (e.g. by clicking on) the OVI “1” 606a, the original map region 602a, displayed by the map-display application 600, may be panned to form a map region 602b. The map region 602b may be centered around the location marker

“*I*” **606b**. The location marker “*I*” **606b** may have taken the form of the OVI “*1*” **606a** while outside of the map region **602a**.

[089] Accordingly, the location marker “*2*” **604a**, (see **FIG. 6A**), not visible on the map region **602b**, may be referenced by a new OVI “*2*” **604b**, indicating the invisible location
5 marker “*2*” is 500ft and a 3-minute-travel time due West from the visible location marker “*I*” **606b**.

[090] When the location maker “*I*” **606b** becomes at the center of the map region **602b**, the position OVI “*3*” **608** and information it contains, may change . In **FIG. 6A**, while the location marker “*2*” **604a** was at the center of the map region **602a**, the OVI “*3*” **608**
10 displayed a distance of 2 miles, a travel time of 20 minutes and a direction vector of South/South-East. Referring back to **FIG. 6B**, with the geographic shift (from the map region **602a** to the map region **602b**) of 500 feet due West from the location marker “*2*” **604a**, to the location marker “*I*” **606b** being at the center of the new map region **602b**, the information displayed by the OVI “*3*” **608** may be change. The OVI “*3*” **608** may now
15 display a new distance of 2.1 miles, a new travel-time of 21 minutes and a direction vector of South/South-West.

[091] Please note that in this example, the travel-time differences are illustrated as being dependent strictly on vector geometry, whereas in a real implementation of the presently-preferred embodiment of this invention, travel time may vary and be calibrated according to
20 road conditions, traffic patterns, etc.

[092] The panning of a map to display a location marker at the map’s center, referenced by a selected OVI, may be accomplished in various ways in different embodiments. In one possible embodiment, the map may instantaneously change from displaying the “original map”, with the original location marker at its center, to displaying the “new map”, with the
25 location marker referenced by the OVI selected, at the center of the new map. In alternate embodiments, the transition of the map regions displayed may be slowed down and/or animated (please see further discussion of these embodiments in **FIGs. 8A-8C** and **9A-9C**.)

[093] FIG. 7 is a generalize block diagram illustrating various communications between a client device and a social network, allowing a map with OVIs to be created and displayed, according to one embodiment of the present invention. A client device 704 may receive input from a user 702, a GPS source 706, a mapping service 708 and a social network 710. The
5 client device 704 may then display a map and create and display OVIs referencing map objects outside the visible arte of the map.

[094] The client device 704 (e.g. a mobile device, a personal computer, a navigation system, etc.) may receive user input (e.g. via a touch screen, from an input device, via a voice command, etc.) and in response, the client device 704 may display/alter-the-display-of an
10 electronic map. For example, a user may invoke a “map command” 720, instructing the device 704 to display a map. In another example, the user may select a “community filter” command 722, requesting that social-network information be retrieved and re-displayed on a map. In another example, the user may select a “search” command 724, causing the retrieval of new map-able information over the network, and a re-rendering of a map on the client
15 device 702.

[095] The GPS source 706 (which may be external or internal to the client device 704, or may generally be a means for the client device 704 to acquire its geographic location) may transmit geographic coordinates to the client device 704. The client device 704 may transmit its location to the social network 710 (e.g. periodically, in response to an electronic request
20 by the social network 710, in response to a change the in the client device’s 704 location, etc.)

[096] The social networking system 710 (e.g. computer servers used by a social network) may aggregate information related to POIs and members. For example, the social network system 710 may contain the geographic locations/coordinate of meetings places, members’
25 residences, etc. A remote user’s device 712 may transmit to the social networking system 710 the coordinates of the remote device 712 (i.e. of the user using the remote device 712.) For example, the remote device 712 may be a mobile device that transmits its geographic location to the social networking system 710 (e.g. the transmission may be periodic, invoked

by the user of the device, transmitted in response to an event such as a request from the social networking system, etc.)

[097] The client device **704** may transmit an electronic communication **730** to the social network **710**. For example, in response to the user’s mapping command **720**, a change in the user’s community filter parameters **722**, an update to a search query **724**, a change in the location of the client device **726**, as an automatic periodic transmission, etc. The social network **710** may transmit map-able information **732** (e.g. locations of social network members, POIs, events, etc.) to the client device **704** (e.g. in response to a transmission **730** from the client device **704**, at an automatic periodic interval, in response to a change in any of the map-able information, or in response to any other event.)

[098] In the presently-preferred embodiment, the client device **704** may transmit map-able information **734** to a mapping server **708** and receive back from the mapping server **708** an electronic map **736**. The mapping server **708** may be external to the client device **704**; or, in alternate embodiments, may be a hardware and/or software component of the client device **704**. In alternate embodiments, the mapping server **708** may be part of the social network **710** such that the map is received by the client device **704** from the social network **710**.

[099] In the prior art, the client device **704** displays the map **738**. Map-able information outside the visible area of the map is not displayed to the user, and is not referenced on the displayed map.

[100] In the presently-preferred embodiment, in addition to displaying the map **738** to the user, OVIs referencing MOs outside the visible area of the map are created and displayed **740**. A determination of the MOs, contained in the map-able information **732**, outside the map **738**, may be made. OVIs referencing the determined MOs may be created. The OVIs may be displayed in association with the displayed map.

[101] In alternate possible embodiments, the process of determining, creating and displaying the OVIs **740** may be divided into smaller processes which may be executed

separately from each other. In other embodiments, one or more of the processes may be executed externally to the client device **704** (e.g. by the mapping server **708**.)

[102] **FIGs. 8A, 8B and 8C** are generalized block diagrams illustrating displaying object vector indicators (“OVI”) and utilizing OVIs to pan around a map in an automated fashion, according various embodiments of the present invention. In response to a user’s selection of an OVI, a map-display application may zoom and/or pan the map, transitioning the view from displaying an area including one location marker, to displaying an area including another location marker, referenced by the selected OVI.

[103] Referring to **FIG. 8A**, a map-display application **801** may display a map-region **802a** of a map **800**. The map **800** may be invisible to the user, except the area comprising the map-region **802a** (the cross-hatching in **FIGs. 8A-8C** signifies portions of the map **800** not visible to the user.) The dimensions of the map-region **802a** may be determined by the zoom level of the map-display application **801**, the dimensions of the map-display application **801** etc. The map-region **802a** may be the only portion of the map **800** visible to the user, through the map-display application **801**. Other portions of the map **800**, outside of the map-region **802a**, may not be visible to the user. A location marker **810** located on a portion of the map **800** outside of the map-region **802a**, may not be visible to the user.

[104] A location marker “**2**” **806** may be displayed on the map-region **802a**, for example, to denote a way-point or landmark in the geographic location corresponding to the location of the location marker **806**. One or more remote location markers on the map **800** may not be visible to the user of the map-display application **801**. For example, the location marker “**1**” **810** may not be visible to the user.

[105] OVIs may be displayed in the map-display application **801**, indicating to the user the direction—as well as other relevant information, such as distance, travel time, etc.--of the location markers not visible (e.g. the location marker “**1**” **810**.)

[106] In prior art, the user viewing the map-region **802a** in the map-display application **801**, may not know the direction and distance to the invisible location marker “**I**” **810**. In order to bring the location marker “**I**” **810** into view in the map-display application **801**, the user has to (1) pan the map **800** in the general direction of the location marker **810** until the visible
5 portion of the map **800** includes the location marker **810**, and/or (2) zoom out until the visible portion of the map **800** includes the location marker **810**, and/or (3) in the case of menu referencing the location marker **810**, selecting the reference to the location marker **810** from the menu causing the portion of the map **800** including the location marker **810** to become visible in the map-display application **801**.

10 [107] In the presently-preferred embodiment, the user may select an OVI and in response, the map-display application may perform a series of autonomous steps. The user may select the OVI “**I**” **808** (e.g. by clicking on it with a pointing device, by touching it through a touch screen, via a voice instruction, etc.) In response, referring now to **FIG. 8B**, the map-display application **801** may zoom-out and/or pan the map **800**, such that the map-region **802b** (i.e.
15 the portion of the map **800** displayed through map-display application **801**) may include both the location marker “**2**” **806** and the location marker “**I**” **810**. In an alternate embodiment, the map **800** may be zoomed and/or panned in such manner that the map-display application **801** may display a minimal map-region **820** of the map **800**, with the location markers **806** and **810** at its borders (the minimal map-region **820** may be defined as the smallest area of the
20 map **800** inclusive of all location markers, i.e. **806** and **810**.)

[108] Referring now to **FIG. 8C**, the map-display application **801** may display a map-region **802c** of the map **800**. The map-region **802c** may include the location marker **810**. In one possible embodiment, the location marker **810** may be centered on the map-region **802c**. An OVI **812** may reference (i.e. point to and provide information including distance, travel
25 time, etc.) the location marker “**2**” **806**. The location marker “**2**” **806** may be invisible in the map-display application **801** in **FIG. 8C**.

[109] Please note that the examples in **FIGs. 8A-8C** show three distinct states: a map showing one location marker and one OVI, a map showing both location markers and no

OVI, and a map showing the other location marker and another OVI, pointing to the first location marker. These three distinct states are used for illustrative purposes only. In a preferred implementation, more states may be possible and the transition from one state to the next may be gradual, animated and/or time-delayed. For example, a user clicking on an
5 OVI on a map, containing a location marker, may cause the map to slowly zoom and/or pan until the location marker referenced by the OVI is visible, in addition to the first location marker. The map may then proceed to zoom and/or pan such that the original location marker is no longer visible but is referenced by a new OVI, and the location marker referenced by the first OVI, is visible. **FIGs. 9A-9C** illustrate other methods of visual map transition in
10 alternate embodiments.

[110] **FIGs. 9A, 9B, 9C, 9D** and **9E** are generalized block diagrams illustrating various methods for transitioning a region of a map displayed, in conjunctions with OVIs, to allow a user to visualize the path between location markers, according to various embodiments of the present invention. In response to a user’s selection of an OVI, a map-display application
15 may zoom and/or pan the map, transitioning the view from displaying a map-region including one location marker, to displaying a map-region including another location marker, referenced by the selected OVI. The map-display application transition may follow various geographic routes and may automatically return to displaying the initial map-region.

[111] Referring to **FIG. 9A**, a map-display application **901** may display a map-region **910a**
20 of a map **900**, which may be invisible to the user (the cross-hatching in **FIGs. 9A-9E** signifies portions of the map **900** not visible to the user through the map-display application **901**.) The map-display application **901** may contain a location marker “2” **902**, displayed overlaying the map-region **910a**, and an OVI “1” **904a**. The OVI **904a** may reference a remote location marker “1” **906**, outside the visible map-display region **910a**. The map **900**
25 may be a street map, a satellite image or any other type of electronic map.

[112] In response to a user’s input selecting the OVI **904a** (e.g. via a touch screen, via an electronic imputer device, via voice-activation, etc.) an automatic transition of the region of the map **900** displayed by the map-display application **901**, may be initiated. The transition

may help the user visualize the geography and path from the location marker “2” 902 visible to the user, to the remote location marker “1” 906, invisible to the user and referenced by the OVI “1” 904a.

[113] In one possible preferred embodiment, illustrated by sequence in FIGS. 9A, 9B and 5 9D, the transition may be along a linear path. In this embodiment, the visible region of the map 900, shown in the map-display application 901, may transition along a straight geographic path. In alternate embodiments, described in the sequence of FIGs. 9A, 9C and 9D, the transition may follow a street-path.

[114] Referring now to FIG. 9B, the map 900 may be transitioned through the map-display 10 application 901 along a straight imaginary line 920a, from the location marker “2” 902 to the location marker “1” 906. Throughout the transition of the map 900, the location marker “2” 902 and the location marker “1” 906, remain known to the user (i.e. the user is aware of the locations of these location markers, whether or not they are visible on the portion of the map shown in the map-display application.) In a case where the transition causes the map-display 15 application 901 to display a map-region 910b which does not include the location markers, OVIs may be displayed. For example, the map-region 910b does not include the location makers 902 and 906, so an OVI 912b may be displayed with information referencing the invisible location marker 902 and an OVI 904b may be displayed with information referencing the invisible location marker 906. The OVIs 904b and 912b may be displayed in 20 a positioning aligning them with the imaginary line of transition 920a.

[115] Referring now to FIG. 9C, in an alternate embodiment, the map 900 may be transitioned through the map-display application 901 along a path 920b resembling real-life travel routes. For example, the path 920b may follow a route recommended by a guidance service (e.g. a GPS navigation device, a mapping website enabled for computing and 25 displaying directions, etc.) In various other embodiments, the user may be offered to choose from one or more alternative routes. The routes may be computed based on real-time road and traffic conditions, etc. The speed with which the map 900 is transitioned within the map-display application 901 may be animated to mimic real travel conditions. For example, the

transitioning effect may be halted briefly when the path **920b** passes through a stop-sign or traffic light, etc.

[116] Throughout the transitioning effects described in **FIGs. 9B** and **9C**, information displayed in the OVIs may be updated in real time. For example, referring to **FIG. 9C**, as the map **900** transitions left, simulating the user traveling right along the path **920b** (i.e. away from the location marker **902**), the OVI “2” **912b** may display a changed direction, increased distance and increased travel-time with respect to the location marker “2” **902** the OVI “2” **912b** is referencing. Likewise, the OVI “1” **904b** may display a changed direction, decreased distance and decreased travel-time with respect to the location marker “1” **906** the OVI “1” **904b** is referencing.

[117] Please note that in these examples, the travel-time change may be affected by real-time road conditions, as well as the decreased distance. In addition, please note that a map said to be traveling in a certain direction is a figure of speech—one may imagine the map being static and the map-display application shifting its view of the map causing the region of the map displayed by the map-display application to transition.

[118] Referring now to **FIG. 9D**, the transition may end when a new map-region **910c**, containing the location marker “1” **906**, is displayed in the map-display application **901**. In the presently-preferred embodiment, the map-region **910c** may be selected from map **900** in such manner as to center around the location marker “1” **906**. The location marker “2” **902**, visible to the user in the map-region **910a** in **FIG. 9A**, may not be visible to the user in the map-region **910c**. The location marker “2” **902** may be referenced by an OVI “2” **912c**, providing the user with a visual indication of the distance from, direction to and travel-time to the invisible location maker “2” **902**.

[119] Referring now to **FIG. 9E**, in another embodiment, the user may be shown a simulation of travel from a visible location marker in a map-region, to an invisible location marker referenced by an OVI, and back to the original map-region showing the original location marker. For example, in a “glance mode”, a region of a map, containing one or

more location markers, may be visible to the user through a map-display application. Also displayed by the map-display application may be one or more OVIs referencing location markers outside the visible region of the map. The user may select one of the OVIs, in response to which the map may automatically transition within the map-display application, shifting the view of the map towards the location marker referenced by the selected OVI, and, after a possible short pause, transitioning the map in reverse back to the original view. One of the advantages of this embodiment is in giving the user a quick perspective on where another remote location marker is and how to get there, without permanently deviating from the current map view.

10 [120] In this example, three phases of a map-display application are shown: a first phase where a first location marker is visible and a second location marker is not visible, and is referenced by an OVI; a second phase where neither location marker is visible and both location markers are visible by OVI; and a third phase where the first location marker is not visible and is referenced by an OVI, while the second location marker is visible. Please note
15 that these three phases represent three arbitrary points in the transition of a map through a map-display application, and in a real-life implementation the transition may involve hundreds of phases, creating the illusion of a smooth, animated panning of a map along a travel route. In addition, please note that in this example the “travel direction” of the map is linear, whereas in other embodiments the map may transition along a travel route following
20 streets and roads.

[121] In the first phase, a map-display application 950a may display a map-region 952a of a map 940. The map 940 may not be visible to the user other than its map-region 952a, visible through the map-display application 950a. The map-region 952a may include a location marker “2” 962, visible to the user. The map-region 952a may include an OVI “1” 964,
25 referencing a location marker “1” 968, not visible to the user through the map-display application 950a.

[122] In response to a user’s selecting the OVI “1” 964, an automatic map-display animation sequence may take place. The transition in the animation sequence may include

one or more in-between map regions. In the second phase, the map-display application is designated **950b** and may include a different region of the map **940**, designated as a map-region **952b**. The map-region **952b** may include OVIs referencing the location markers **962** and **968**, not visible in the map-region **952b**.

5 [123] The third phase may illustrate the final state of the map-display application, designated as **950c**. The map-display application **950b** may include a different region of the map **940**, designated as a map-region **952c**. The map-region **952c** may include an OVI “2” **966** referencing the location marker “2” **962**, not visible in the map-region **952c**. At the end of the last phase (in this example the thirist phase) the animation sequence may reverse and
10 the phases may be displayed in reverse order, with the last phase being the first phase where the map-display application was designated **950a** and displayed the map-region designated **952a**.

[124] In an alternate embodiment, a short pause may follow the last phase, prior to the animation sequence being traversed in reverse order. In another alternate embodiment, no
15 reverse traversing of phases may take place. For example, upon reaching the last phase a short pause may take place, in the original map-region may be displayed in the map-display application.

[125] While the invention has been described herein with reference to certain preferred embodiments, these embodiments have been presented by way of example only, and not to
20 limit the scope of the invention. Accordingly, the scope of the invention should be defined only in accordance with the claims that follow.



Atida LLC
3862 Ruskin Street
Las Vegas, Nevada 89147

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450
Mail Stop Missing Parts
Express Mail EH 473701257 US

RE: Application # 12/291,802 Filing Date: 11/13/2008 Docket #: WWOHANA

Commissioner of Patents;

This letter and resubmission of information is in response to the request received from your office dated December 5, 2008.

Please find enclosed:

A) Resubmittal of Specification with replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121(d) – specifically with adjusted font size to drawing 8B.

B) Check # 1054 for \$43 to cover additional claim fees for this application of \$52. Your office has advised that there is currently a \$9 credit for this application, so \$43 is due.

This Specification with replacement drawing has NO new matter added.

Respectfully submitted,

Steven Rueben
Atida LLC

Adjustment date: 12/30/2008 RHEBRAHT
11/17/2008 RHEBRAHT 00000001 12291802
06 FC:2622 -9.00 OP

12/30/2008 RHEBRAHT 00000074 12291802
01 FC:1202 52.00 OP

Adjustment date: 01/12/2009 VVAN11
12/30/2008 RHEBRAHT 00000074 12291802
01 FC:1202 -52.00 OP

01/12/2009 VVAN11 00000001 12291802
01 FC:2202 52.00 OP



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/291,802	11/13/2008	3664	863	WWOHANA	28	4

CONFIRMATION NO. 7919

UPDATED FILING RECEIPT



OC000000034028708

Atida LLC
Attn: Steven Rueben
3862 Ruskin Street
Las Vegas, NV 89147

Date Mailed: 01/14/2009

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

Applicant(s)

Gabriel Jakobson, Las Vegas, NV;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 12/151,827 05/08/2008

Foreign Applications

If Required, Foreign Filing License Granted: 12/01/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/291,802**

Projected Publication Date: 11/12/2009

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Method and system for displaying social networking navigation information

Preliminary Class

701

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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

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

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

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

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

LICENSE FOR FOREIGN FILING UNDER**Title 35, United States Code, Section 184****Title 37, Code of Federal Regulations, 5.11 & 5.15****GRANTED**

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

page 2 of 3

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

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

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

NOT GRANTED

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



Sheet	1	of	1
-------	---	----	---

[illegible][illegible]

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, 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 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Complete if Known

Application Number	12/291802
Filing Date	11/13/08
First Named Inventor	Jakobson
Art Unit	3664
Examiner Name	
Attorney Docket Number	WWOHANA

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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 2 hours 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, 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 (1-800-786-9199) and select option 2.

~~SECRET~~



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
12/291,802	11/13/2008	Gabriel Jakobson	WWOHANA

CONFIRMATION NO. 7919

Atida LLC
Attn: Steven Rueben
3862 Ruskin Street
Las Vegas, NV 89147

PUBLICATION NOTICE



OC000000038725867

Title:Method and system for displaying social networking navigation information

Publication No.US-2009-0281719-A1

Publication Date:11/12/2009

NOTICE OF PUBLICATION OF APPLICATION

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

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

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

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

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

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

PLUS Search Results for S/N 12291802, Searched Fri Nov 05 08:31:43 EDT 2010
 The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

20090281719 99	20080255759 44	6145003 43
20090281720 88	20100228476 44	RE36948 43
5729458 55	3659088 43	
6038509 55	4322800 43	
6128574 55	4440119 43	
6526268 55	4590569 43	
6826473 55	4807762 43	
7486201 55	4960083 43	
20060015397 55	4972319 43	
20070159355 55	5202772 43	
20080162033 55	5274468 43	
20080255876 55	5412880 43	
20080228745 54	5440453 43	
20100017237 51	5467593 43	
5559707 48	5473151 43	
5802492 48	5477045 43	
5832400 48	5479004 43	
5948040 48	5521615 43	
6321158 48	5548278 43	
6351709 48	5592077 43	
6735515 48	5647663 43	
6911918 48	5724242 43	
6965829 48	5740352 43	
7398151 48	5745748 43	
7673402 48	5749346 43	
7706971 48	5758064 43	
20010014849 48	5764369 43	
20020049529 48	5771169 43	
20030074209 48	5781914 43	
20030144774 48	5799061 43	
20040049343 48	5845226 43	
20040119612 48	5881210 43	
20040158391 48	5887271 43	
20050027419 48	5893081 43	
20060080032 48	5897645 43	
20060142942 48	5901246 43	
20070021908 48	5907835 43	
20070022636 48	5933500 43	
20070150124 48	5948043 43	
20070239355 48	5966519 43	
20090012798 48	5978730 43	
20090105912 48	6003041 43	
20090144489 48	6016485 43	
20090216443 48	6026384 43	
20090288057 48	6034783 43	
20090043656 47	6038348 43	
20090094084 47	6049829 43	
20100083169 47	6071009 43	
20010021091 47	6072942 43	

Notice of References Cited	Application/Control No. 12/291,802	Applicant(s)/Patent Under Reexamination JAKOBSON, GABRIEL	
	Examiner TAN Q. NGUYEN	Art Unit 3661	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,220,507	06-1993	Kirson, Allan M.	701/202
*	B	US-6,199,012	03-2001	Hasegawa, Shinichi	701/208
*	C	US-6,415,224	07-2002	Wako et al.	701/208
*	D	US-6,542,814	04-2003	Polidi et al.	701/208
*	E	US-7,359,798	04-2008	Nagamasa, Yoshinobu	701/208
*	F	US-7,490,004	02-2009	Kimura, Tsuyoshi	701/201
*	G	US-7,698,062	04-2010	McMullen et al.	701/211
*	H	US-2005/0085999	04-2005	Onishi, Hirofumi	701/211
*	I	US-2007/0050129	03-2007	Salmre, Ivo William	701/207
*	J	US-2008/0228386	09-2008	Geelen et al.	701/201
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Number	12/291802
Filing Date	11/13/08
First Named Inventor	Jakobson
Art Unit	3664
Examiner Name	
Attorney Docket Number	WWOHANA

Page 142 of 255



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Number	12/291802
Filing Date	11/13/08
First Named Inventor	Jakobson
Art Unit	3664
Examiner Name	
Attorney Docket Number	WWOHANA

Page 143 of 255



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

BIB DATA SHEET

CONFIRMATION NO. 7919

SERIAL NUMBER 12/291,802	FILING or 371(c) DATE 11/13/2008 RULE	CLASS 701	GROUP ART UNIT 3661	ATTORNEY DOCKET NO. WWOHANA		
APPLICANTS Gabriel Jakobson, Las Vegas, NV; ** CONTINUING DATA ***** This application is a CIP of 12/151,827 05/08/2008 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY ** 12/01/2008						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /TAN QUANG NGUYEN/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY NV	SHEETS DRAWINGS 21	TOTAL CLAIMS 28	INDEPENDENT CLAIMS 4
ADDRESS Atida LLC Attn: Steven Rueben 3862 Ruskin Street Las Vegas, NV 89147 UNITED STATES						
TITLE Method and system for displaying social networking navigation information						
FILING FEE RECEIVED 863	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees		
				☐ 1.16 Fees (Filing)		
				☐ 1.17 Fees (Processing Ext. of time)		
				☐ 1.18 Fees (Issue)		
				☐ Other _____		
				☐ Credit		



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/291,802	11/13/2008	Gabriel Jakobson	WWOHANA	7919
Atida LLC Attn: Steven Rueben 3862 Ruskin Street Las Vegas, NV 89147			EXAMINER NGUYEN, TAN QUANG	
			ART UNIT 3661	PAPER NUMBER
			MAIL DATE 11/09/2010	DELIVERY MODE PAPER

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

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

Office Action Summary	Application No.	Applicant(s)	
	12/291,802	JAKOBSON, GABRIEL	
	Examiner	Art Unit	
	TAN Q. NGUYEN	3661	

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

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

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

Status

1) ☒ Responsive to communication(s) filed on 13 November 2008.

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

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

Disposition of Claims

4) ☒ Claim(s) 1-28 is/are pending in the application.

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

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1-28 is/are rejected.

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

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

Application Papers

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

10) ☒ The drawing(s) filed on 13 November 2008 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

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

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

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

Priority under 35 U.S.C. § 119

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

a) ☐ All b) ☐ Some * c) ☐ None of:

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

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

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

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

Attachment(s)

1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>5/14/2009; 5/18/2009</u> .	4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____. 5) ☐ Notice of Informal Patent Application 6) ☐ Other: _____.
--	--

DETAIL ACTION

Notice to Applicant(s)

1. This application has been examined. Claims 1-34 are pending.
2. The prior arts submitted on May 14, 2009 and May 18, 2009 have been considered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Salmre (2007/0050129).
5. As per claim 1, Salmre discloses the invention as claimed which includes the steps of providing an electronic device having a map display application that is coupled to a mapping service and a display for displaying a selected area of the electronic map (see at least figure 2, figure 9, and paragraph [0063]), obtaining the items (map objects) from the social network (see at least paragraphs [0057] and [0058], determining that coordinates of the items (map objects MO) are within the selected area of the electronic map (see at least figure 9, step 910), computing distance and travel related information

from an object of reference (i.e. a location within the selected area of the electronic map) to the items), computing a placement position of an object vector indicators referencing the items on the map display application, creating the OVI containing the distance and travel related information, and displaying the OVI on the display at the computed placement position (see at least figures 2B, 3, 5B, 6 and the related text).

6. As per claims 2-5, Salmre also disclose that the object of reference is displayed in the center as a marker of the selected area of the electronic map (see at least figure 2B, item 112).

7. As per claims 6-17, the limitations of these claims are taught in at least figures 5B, 6, 9, 10, 14 and the related text.

8. With respect to claims 18-28, the limitations of these claims have been noted in the rejections above and in the teaching of the Salmre reference. They are therefore considered rejected as set forth above.

Conclusion

9. All claims are rejected.

10. The following references are cited as being of general interest: Kirson (5,220,507), Hasegawa (6,199,012), Wako et al. (6,4125,224), Polidi et al. (6,542,814), Nagamasa (7,359,798), Kimura (7,490,004), McMullen et al. (7,698,062), Onishi (2005/008599), Geelen et al. (2008/0228386).

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Tan Q. Nguyen, whose telephone number is (571) 272-6966. The examiner can normally be reached on Monday-Thursday from 6:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (571) 272-6956.

Art Unit: 3661

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to the Official Fax Center: (571) 273-8300.

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

November 8, 2010

/TAN QUANG NGUYEN/
Primary Examiner
Art Unit 3661

Index of Claims 	Application/Control No.		Applicant(s)/Patent under Reexamination	
	12/291,802		JAKOBSON, GABRIEL	
	Examiner		Art Unit	
	TAN Q. NGUYEN		3661	

✓	Rejected
=	Allowed

—	(Through numeral) Cancelled
÷	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date						
Final	Original							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	38							
	39							
	40							
	41							
	42							
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							

Claim		Date						
Final	Original							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							
	60							
	61							
	62							
	63							
	64							
	65							
	66							
	67							
	68							
	69							
	70							
	71							
	72							
	73							
	74							
	75							
	76							
	77							
	78							
	79							
	80							
	81							
	82							
	83							
	84							
	85							
	86							
	87							
	88							
	89							
	90							
	91							
	92							
	93							
	94							
	95							
	96							
	97							
	98							
	99							
	100							

Claim		Date						
Final	Original							
	101							
	102							
	103							
	104							
	105							
	106							
	107							
	108							
	109							
	110							
	111							
	112							
	113							
	114							
	115							
	116							
	117							
	118							
	119							
	120							
	121							
	122							
	123							
	124							
	125							
	126							
	127							
	128							
	129							
	130							
	131							
	132							
	133							
	134							
	135							
	136							
	137							
	138							
	139							
	140							
	141							
	142							
	143							
	144							
	145							
	146							
	147							
	148							
	149							
	150							

Search Notes 	Application/Control No.		Applicant(s)/Patent under Reexamination	
	12/291,802		JAKOBSON, GABRIEL	
	Examiner		Art Unit	
	TAN Q. NGUYEN		3661	

SEARCHED			
Class	Subclass	Date	Examiner
701	202,211 208,212 213	11/5/2010	TN
340	995.14	11/5/2010	TN
340	995.21	11/5/2010	TN
340	995.27	11/5/2010	TN
715	785,764	11/5/2010	TN

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
PLUS SEARCH	11/5/2010	TN
EAST SEARCH	11/5/2010	TN

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	100	("20090281719" "20090281720" "5729458" "6038509" "6128574" "6526268" "6826473" "7486201" "20060015397" "20070159355" "20080162033" "20080255876" "20080228745" "20100017237" "5559707" "5802492" "5832400" "5948040" "6321158" "6351709" "6735515" "6911918" "6965829" "7398151" "7673402" "7706971" "20010014849" "20020049529" "20030074209" "20030144774" "20040049343" "20040119612" "20040158391" "20050027419" "20060080032" "20060142942" "20070021908" "20070022636" "20070150124" "20070239355" "20090012798" "20090105912" "20090144489" "20090216443" "20090288057" "20090043656" "20090094084" "20100083169" "20010021091" "20080255759" "20100228476" "3659088" "4322800" "4440119" "4590569" "4807762" "4960083" "4972319" "5202772" "5274468" "5412880" "5440453" "5467593"	US-PGPUB; USPAT	OR	ON	2010/11/05 09:18

		"5473151" "5477045" "5479004" "5521615" "5548278" "5592077" "5647663" "5724242" "5740352" "5745748" "5749346" "5758064" "5764369" "5771169" "5781914" "5799061" "5845226" "5881210" "5887271" "5893081" "5897645" "5901246" "5907835" "5933500" "5948043" "5966519" "5978730" "6003041" "6016485" "6026384" "6034783" "6038348" "6049829" "6071009" "6072942" "6145003" RE36948).pn.				
S2	280746	display\$3 near3 (poi point\$3 near3 interest \$4 landmark\$3 location \$3 position\$3 facility waypoint\$3 intermediat \$4 near3 point\$3)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/05 09:19
S3	1365393	(social\$4 near3 network \$3 meet\$4 entertain\$9 movie club)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/05 09:20
S4	58790	S2 and S3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/05 09:20
S5	21	S1 and S4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/05 09:20
S6	396286	("701"/\$ "342"/\$ "340"/ \$ "455"/\$).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/05 09:21
S7	16	S5 and S6	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/05 09:21

S8	7946	S4 and S6	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/05 09:21
----	------	-----------	---	----	----	---------------------

11/6/2010 7:59:36 PM

C:\Documents and Settings\tnguyen2\My Documents\EAST\Workspaces\12-291802 Display
POI outside map view with social networking.wsp



In The United States Patent And Trademark Office

Appn. Number: 12/291,802
Appn. Filed: 13 Nov 2008

Applicant: Gabriel Jakobson and Steven L. Rueben

Title: Method and System for Displaying Social Networking Navigation Information

Examine/GAU: Nguyen, Tan Quang

Las Vegas, NV 2011 MARCH 07, MON

Amendment A

Mail Stop Non-Fee Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed 11/9/2010 and phone interview with Examiner on 2/4/2011 (regarding parent patent application 12/151,827 of which the present application is a C.I.P), please amend the above application as follows:

CLAIMS:

Claims 1-28 CANCELLED

- 29.** (NEW) A method for displaying object vector indicators (“OVI”) referencing social-network map-objects (“MO”) on an electronic map, comprising:
- providing an electronic device having a map-display application that is coupled to a mapping service, a social-network and a display for displaying a selected area of the electronic map;
 - authenticating to the social network;
 - obtaining from the social network the MO;
 - determining that coordinates of the MO are not within the selected area of the electronic map;
 - computing distance and travel-related information from a location within the selected area of the electronic map to the MO;
 - computing a placement position of an OVI referencing the MO on the map-display application;
 - creating the OVI containing the distance and travel-related information;
 - displaying the OVI on the display at the computed placement position;
 - receiving user input selecting the OVI;
 - displaying a secondary area of the electronic map, wherein the secondary area is a region of the electronic map centered approximately around the MO; and
 - displaying the MO approximately at the center of the secondary area.
- 30.** (NEW) The method of claim **29**, wherein the location within the selected area of the electronic map is the center of the selected area of the electronic map.
- 31.** (NEW) The method of claim **29**, wherein the location within the selected area of the electronic map is a location marker.
- 32.** (NEW) The method of claim **31**, wherein the location marker is retrieved from the social network.

33. (NEW) The method of claim 32, further including retrieving from the social network location information associated with a user of the social network, wherein the location market is related to the retrieved location information.
34. (NEW) The method of claim 29, wherein the computing the placement position of the OVI step is repeated in response to a change in the position of the MO.
35. (NEW) The method of claim 29, wherein the computing the placement position of the OVI step is repeated in response to a change in the position of the electronic device.
36. (NEW) The method of claim 29, wherein the computing the distance-and-travel information includes at least one of the following: an aerial distance to the MO, a travel distance to the MO, a visual indicator pointing in the direction of the MO, and an estimated travel-time to the MO.
37. (NEW) The method of claim 36, wherein the travel-distance to the MO is computed by selecting a travel route according to various user preferences and travel-route selection algorithms.
38. (NEW) The method of claim 36, wherein the estimated travel-time to the MO is computed by selecting a travel route according to various user preferences and travel-route selection algorithms.
39. (NEW) The method of claim 36, wherein the received user input is result of the user touching the display at a location of the display approximately corresponding to the OVI displayed.

40. (NEW) The method of claim 29, wherein the computing distance-and-travel information step is repeated in response to a change in the position of the electronic device.
41. (NEW) The method of claim 29, wherein the computing distance-and-travel information step is repeated in response to a change in the position of the MO obtained from the social network.
42. (NEW) The method of claim 29, wherein the computing distance-and-travel information step and the computing the placement position of the OVI step are repeated in response to a change in travel conditions.
43. (NEW) The method of claim 29, wherein the computing distance-and-travel information step further comprises:
 - obtaining position of the electronic device;
 - transmitting the position of the electronic device to a remote server; and
 - receiving from the remote server the distance-and-travel information.
44. (NEW) The method of claim 29, further including:
 - computing distance and travel-related information from the OVI to the selected area of the electronic map;
 - computing a placement position of a second OVI referencing the selected area of the electronic map;
 - creating the second OVI including the distance and travel-related information;
 - displaying the second OVI on the display at the computed placement position.
45. (NEW) The method of claim 29, wherein the electronic device is a GPS-enabled navigation unit.

46. (NEW) A method of panning a social-network-based electronic map, comprising:
- authenticating to a social network;
 - requesting a list of map objects (“MOs”) from the social network;
 - receiving the list of MOs from the social network;
 - determining the geographic coordinates of the MOs; and
 - determining that the MOs are outside bounds of a first area of the map visible to a user;
 - creating an object vector indicator (“OVI”) for each of the MOs;
 - displaying the OVIs on the electronic map;
 - receiving user input selecting one of the OVIs;
 - determining one of the MOs referenced by the selected OVI;
 - panning the electronic map to display a secondary area of the map, wherein the secondary area is a region of the electronic map encompassing the determined one of the MOs; and
 - wherein the determined one of the MOs is approximately at the center of the secondary area.
47. (NEW) The method of claim 46, further comprising animating the panning transition of the electronic map from displaying the first area to displaying the secondary area, wherein the animation includes the steps of:
- a. defining a number of animation steps;
 - b. defining a time delay;
 - c. defining a small travel distance;
 - d. determining a path between the determined one of the MOs and an approximate center of the first area of the map;
 - e. panning the map by the small travel distance in the direction of the determined one of the MOs;
 - f. waiting an amount of time specified by the time delay; wherein the steps e-f are repeated until the determined one of the MOs is approximately at the center of the displayed secondary map.

48. (NEW) The method of claim 46, wherein creating an OVI includes calculating a distance, a direction and a travel time from a point in the first area of the map to the location of the MO.

49. (NEW) The method of claim 46, wherein the step of panning the map by a small interval further includes:

- defining a travel route; and
- panning the map along the defined travel route

50. (NEW) The method of claim 48, wherein the point in the first area of the map corresponds to the location of the electronic device.

51. (NEW) A method for creating and displaying an object vector indicator (“OVI”) on an electronic map of a global navigation system (“GPS”) device, connected to a social network, comprising:

- a) providing the GPS device having a map display application that is coupled to the social network and a display for displaying a portion of the electronic map;
- b) receiving coordinates of the GPS device;
- c) receiving information on a map-object (“MO”);
- d) determining coordinates of the MO from the received information;
- e) determining a range of coordinates inclusive of the displayed portion of the electronic map;
- f) calculating that the coordinates of the MO are not within the range of coordinates of the displayed portion of the electronic map;
- g) creating the OVI to reference the MO;
- h) calculating the placement of the OVI on the display;
- i) displaying the OVI on the display.
- j) receiving user input selecting the OVI; and

k) panning the electronic map such that the MO is displayed approximately at the center of the electronic map.

52. (NEW) The method of claim **51**, wherein the step of creating the OVI includes:
calculating the direction, distance and travel-time from the position of the electronic device to the MO; and
including the calculated data in the OVI.

53. (NEW) The method of claim **51**, further comprising:
changing at least one of: GPS coordinates of the GPS device; MO information; a zoom-level of the electronic map.

54. (NEW) The method of claim **51**, wherein the social network is capable of providing mapping information.

R E M A R K S—General

By above amendment, applicant has ensured all claims define the invention more particularly and distinctly so as to overcome the technical rejections and define the invention's patentability over the prior art.

For example,

The Claim Rejections on 35 USC § 103 are overcome

The Reference and Differences of the Present Invention Thereover

Prior to discussion of the claim above, applicant will first discuss the reference and the general novelty of the present invention and its unobviousness over the reference.

The main difference between Salmre and the present invention is the following:

Salmre teaches displaying an object on an electronic map, the object pointing to a point on the map outside the visible area of the map.

The present invention teaches displaying an object on an electronic map, the object pointing to a point on the map outside the visible area of the map **and also allowing the user to automatically pan the map to center the map around the point referenced by the selected object on the map, by selecting/clicking-on the object.**

In addition, Salmre does not teach utilizing a social network for generating MOs. More particularly, Salmre does not teach authenticating to a social network, retrieving social-network mapping information associated with a user, etc.

While there is an obvious overlap between Salmre and the present invention—i.e. displaying pointers on a map pointing to points outside the visible area of the map—the present invention also teaches responding to user's selection of any of the pointers and

panning the map to center it around a point, formerly invisible, which is referenced by the selected pointer.

The aforementioned teaching, clearly not anticipated or taught by Salmre, is well articulated in applicant's FIGs. 6A, 6B, 8A, 8B, 8C, 9A, 9B, 9C, 9D, where:

FIGs. 6A and 6B are generalized block diagrams illustrating displaying and utilizing OVIs to move around a map (i.e. pan a map), according to one embodiment of the present invention.

FIGs. 8A, 8B and 8C are generalized block diagrams illustrating displaying object vector indicators ("OVI") and utilizing OVIs to pan around a map in an automated fashion, according various embodiments of the present invention.

FIGs. 9A, 9B, 9C, 9D and 9E are generalized block diagrams illustrating various methods for transitioning a region of a map displayed, in conjunctions with OVIs, to allow a user to visualize the path between location markers, according to various embodiments of the present invention.

As stated earlier, Salmre does not provide figures, specifications or claims teaching responding to a user's selection of a pointer on a map by panning the map to a point outside the map, pointed to by the object.

This argument has been discussed with Examiner during phone interview on 2/4/2011. Examiner has requested an explanation of how the present invention overcomes Salmre's FIGs. 5B and 6—described in Salmre 48; and, Salmre's FIGs. 12A & 12B.

Salmre's Par. 48 reads: "*Building on FIG. 5B, FIG. 6 illustrates that the center of attention (which can be an anchor point) or display can also be dynamically changed while maintaining signposted items relationships. Thus, in contrast to FIG. 5B where user one 404 is the center of attention (i.e. in the middle of the display screen 502), now the second user is displayed preferentially near the center of the display screen 600.*"

Thus, now the signposts are calculated from the second user's 406 point of view. This means that user two 406 is now the anchor to any related items."

Salmre's fails to teach the following:

- (1) How did map 502 "become" map 600? In other words, Salmre does not teach any user input causing such transition. Salmre merely illustrates 2 map views, each map view displaying signposts referencing another map.

By contrast, applicants' invention teaches receiving user input and in response to the received user input, panning a map in a certain way.

- (2) The signposts in Salmre are not reciprocal. In other words, map 502 displays anchor point 404 with signposts 406, 508 and 510. Fig. 6B displays no signpost pointing back to anchor point 404.

Applicants' invention, by contrast, is reciprocal: If map 1 displays point A at center of map and pointer B to point B outside the map; map 2 would display point B at the center of the map, with a pointer back to point A, now outside the map.

- (3) Related to point (1) above, Salmre does not teach any methodology for facilitating a transition from one map view to another. For example, applicants' invention teaches animating map transition between two views, along a travel path, etc. Salmre does not broach any such subject matter.

With respect to Salmre's FIGs. 12A and 12B, Salmre's explanation is "*FIG. 12A illustrates the various item location combinations, building on discussions with reference to FIG. 9. In FIG. 12A, at block 904, once an item is displayed on a map image, as can be seen at block 1202, a stationary item can be displayed, or as can be seen at block 1204, a moving item can be displayed. In the latter case, such a moving item can either be centered on a display screen (block 1210) or it can be displayed off-center (block 1212). Similarly, in the former case, a stationary item (block 1202) can be either centered (block 1210) or be off-center (block 1212).*

What holds true for items, also may hold true for objects of reference. In FIG. 12B, at block 906, once an object of reference is established and displayed, such an object can either be stationary (block 1206) and centered (block 1214) or stationary (block 1206) and off-center (block 1216). Similarly, an object can be moving (block 1208) can either be stationary (block 1206) and centered (block 1214) or stationary (block 1206) and off-center (block 1216).”

It is clear both from studying Salmre’s FIGs. 12A and 12B, and from reading the accompanying description above, that Salmre teaches dealing with stationary items (e.g. buildings) and moving items (e.g. people). Salmre’s use of the words “moving” clearly describes the state of the item, and not the user of the device “moving [i.e. panning] the map”—which is the subject of Applicants’ teaching.

Similarly, Salmre teaches various items—stationary or moving—can be at the center of a map.

Applicants do not disagree that Salmre teaches (1) item indicators can move on a map and (2) various items can be centered on the map.

Applicants do disagree that Salmre teaches anything related to applicants’ invention, which teaches automatically panning a map, such that various objects previously displayed outside the map, are now inside the map (or at its center). The mere fact that Salmre mentions the words “center” and “moving” does not make the teaching analogous in the least.

The Rejection of Claim 1 on Salmre is overcome.

The last OA rejected independent claim 1 on Salmre. Applicant requests reconsideration and withdrawal of this rejection, for the following reasons: applicant’s invention is materially different from Salmre and claim 1 has been re-written to better articulate the material difference.

The last OA rejects independent claim 1 on Salmre, citing Salmre's par [0063], Fig. 9 and Figs. 2B, 3, 5B, 6.

Applicants have re-written claim 1 (as new claim 29) to overcome this objection. More specifically, applicants have added the following limitations to new claim 29:

providing an electronic device having a map-display application that is coupled to a mapping service, a social-network and a display for displaying a selected area of the electronic map;

authenticating to the social network;

obtaining from the social network the MO;

...

receiving user input selecting the OVI;

displaying a secondary area of the electronic map, wherein the secondary area is a region of the electronic map centered approximately around the OVI;

and

displaying the OVI approximately at the center of the secondary area.

Salmre does not teach receiving user input. Salmre does not teach authenticating to a social network and receiving mapping information from the social network. The objections in the last OA, listed above, pertain only to the way both Salmre and the present invention display MOs and OVIs on a map—not to applicants' teachings of displaying a secondary map in response to user input.

This key difference between Salmre and the present invention has been discussed at length starting on Pg. 10 of this Amendment; and, during phone interview with examiner.

Similarly, independent claims 46 and 51 have been re-written to better articulate this material difference between Salmre's invention and the present invention. Namely, the independent claims 46 and 51 have been re-written to include user input causing automatic map panning.



Therefore applicants request allowing independent claims 29, 46 and 51—as well as all their dependent claims, for being novel and non-obvious over Salmre.

The Dependent Claims Are A Fortiori Patentable Over Salmre

Dependent claims 30-45 incorporate all the subject matter of claim 29 and add additional subject matter which makes them a fortiori and independently patentable over these references. Similarly, dependent claims 47-50 incorporate all the subject matter of claim 46 and add additional subject matter which makes them a fortiori and independently patentable over these references. Additionally, dependent claims 52-54 incorporate all the subject matter of claim 51 and add additional subject matter which makes them a fortiori and independently patentable over these references.

Very respectfully,

Gabriel Jakobson

Steven L. Rueben

-----Applicants Pro Se-----

Enc: Revised claim status and presentation of amended claims. General remarks on Application 12/291,802 and how it relates to the issues cited by Examiner Nguyen.

3862 Ruskin Street

Las Vegas, NV 89147

Tel (702) 419-6460

Fax (702) 363-4653

Submitted via USPS Express Mail # EG 419701332 US.

2011 MARCH 7

Steven Rueben

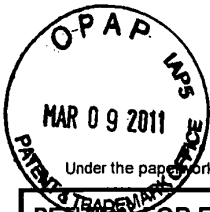
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875					Application or Docket Number 12/291,802		Filing Date 11/13/2008		☐ To be Mailed		
APPLICATION AS FILED – PART I											
(Column 1)			(Column 2)			SMALL ENTITY ☒ OR		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE (\$)	FEE (\$)	OR	RATE (\$)	FEE (\$)				
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A					
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A					
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A					
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X \$ =		OR	X \$ =					
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X \$ =			X \$ =					
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).										
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			TOTAL			TOTAL					
* If the difference in column 1 is less than zero, enter "0" in column 2.											
APPLICATION AS AMENDED – PART II											
(Column 1)			(Column 2)			(Column 3)		SMALL ENTITY OR		OTHER THAN SMALL ENTITY	
AMENDMENT	03/09/2011	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)	
	Total (37 CFR 1.16(i))	* 26	Minus	** 28	= 0	X \$26 =	0	OR	X \$ =		
	Independent (37 CFR 1.16(h))	* 3	Minus	***4	= 0	X \$110 =	0	OR	X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))							OR			
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR			
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE		
AMENDMENT	CLAIMS REMAINING AFTER AMENDMENT	MINUS	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)	OR	RATE (\$)	ADDITIONAL FEE (\$)		
	Total (37 CFR 1.16(i))	*	Minus	**	=	X \$ =		OR	X \$ =		
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X \$ =		OR	X \$ =		
	☐ Application Size Fee (37 CFR 1.16(s))							OR			
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR			
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.											

Legal Instrument Examiner:
/ROSA HOLLAND/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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



3-10-11

20F2 I/FW

PTO/SB/22 (07-09)

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) FY 2009 (Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)		Docket Number (Optional) WWOHANA	
Application Number 12/291,802		Filed 13 NOV 2008	
For Method and System for Displaying Social Networking...			
Art Unit 3661		Examiner Nguyen, TAN Quang	
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.			
The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):			
	<u>Fee</u>	<u>Small Entity Fee</u>	
☒ One month (37 CFR 1.17(a)(1))	\$130	\$65	\$ 65
☐ Two months (37 CFR 1.17(a)(2))	\$490	\$245	\$ _____
☐ Three months (37 CFR 1.17(a)(3))	\$1110	\$555	\$ _____
☐ Four months (37 CFR 1.17(a)(4))	\$1730	\$865	\$ _____
☐ Five months (37 CFR 1.17(a)(5))	\$2350	\$1175	\$ _____
☒ Applicant claims small entity status. See 37 CFR 1.27.			
☒ A check in the amount of the fee is enclosed.			
☐ Payment by credit card. Form PTO-2038 is attached.			
☐ The Director has already been authorized to charge fees in this application to a Deposit Account.			
☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____.			
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
I am the ☒ applicant/inventor.		03/10/2011 HBLANCO 00000007 12291802	
☐ assignee of record of the entire interest. See 37 CFR 3.71.		01 FC:2251 65.00 JP	
Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).			
☐ attorney or agent of record. Registration Number _____			
☐ attorney or agent under 37 CFR 1.34.			
Registration number if acting under 37 CFR 1.34 _____			
Signature Steven Rueben		Date 3/7/11	
Typed or printed name Steven Rueben		Telephone Number 702-419-6460	
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.			
☒ Total of 2 forms are submitted.			

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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



1052

PTO/SB/22 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a) FY 2009 (Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).)		Docket Number (Optional) WWOHANA
Application Number 12/291,802	Filed 13 NOV 2008	
For Method and System for Displaying Social Networking..		
Art Unit 3661	Examiner Nguyen, TAN Quang	
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.		
The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):		
	Fee	Small Entity Fee
☒ One month (37 CFR 1.17(a)(1))	\$130	\$65
☐ Two months (37 CFR 1.17(a)(2))	\$490	\$245
☐ Three months (37 CFR 1.17(a)(3))	\$1110	\$555
☐ Four months (37 CFR 1.17(a)(4))	\$1730	\$865
☐ Five months (37 CFR 1.17(a)(5))	\$2350	\$1175
☒ Applicant claims small entity status. See 37 CFR 1.27.		
☒ A check in the amount of the fee is enclosed.		
☐ Payment by credit card. Form PTO-2038 is attached.		
☐ The Director has already been authorized to charge fees in this application to a Deposit Account.		
☐ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number _____		
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.		
I am the ☒ applicant/inventor.		
☐ assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).		
☐ attorney or agent of record. Registration Number _____		
☐ attorney or agent under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34 _____		
Signature GABRIEL JAKUBSON		Date 3/7/11
Typed or printed name GABRIEL JAKUBSON		Telephone Number 702-419-6460
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.		
☒ Total of 2 forms are submitted.		

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

Index of Claims 	Application/Control No.		Applicant(s)/Patent under Reexamination	
	12/291,802		JAKOBSON, GABRIEL	
	Examiner		Art Unit	
	TAN Q. NGUYEN		3661	

✓	Rejected
=	Allowed

—	(Through numeral) Cancelled
+	Restricted

N	Non-Elected
I	Interference

A	Appeal
O	Objected

Claim		Date									
Final	Original	4/21/11									
	1	-									
	2	-									
	3	-									
	4	-									
	5	-									
	6	-									
	7	-									
	8	-									
	9	-									
	10	-									
	11	-									
	12	-									
	13	-									
	14	-									
	15	-									
	16	-									
	17	-									
	18	-									
	19	-									
	20	-									
	21	-									
	22	-									
	23	-									
	24	-									
	25	-									
	26	-									
	27	-									
	28	-									
1	29	=									
2	30	=									
3	31	=									
4	32	=									
5	33	=									
6	34	=									
7	35	=									
8	36	=									
9	37	=									
10	38	=									
11	39	=									
12	40	=									
13	41	=									
14	42	=									
15	43	=									
16	44	=									
17	45	=									
18	46	=									
19	47	=									
20	48	=									
22	49	=									
21	50	=									

Claim		Date									
Final	Original	4/21/11									
23	51	=									
24	52	=									
25	53	=									
26	54	=									
	55										
	56										
	57										
	58										
	59										
	60										
	61										
	62										
	63										
	64										
	65										
	66										
	67										
	68										
	69										
	70										
	71										
	72										
	73										
	74										
	75										
	76										
	77										
	78										
	79										
	80										
	81										
	82										
	83										
	84										
	85										
	86										
	87										
	88										
	89										
	90										
	91										
	92										
	93										
	94										
	95										
	96										
	97										
	98										
	99										
	100										

Claim		Date									
Final	Original										
	101										
	102										
	103										
	104										
	105										
	106										
	107										
	108										
	109										
	110										
	111										
	112										
	113										
	114										
	115										
	116										
	117										
	118										
	119										
	120										
	121										
	122										
	123										
	124										
	125										
	126										
	127										
	128										
	129										
	130										
	131										
	132										
	133										
	134										
	135										
	136										
	137										
	138										
	139										
	140										
	141										
	142										
	143										
	144										
	145										
	146										
	147										
	148										
	149										
	150										

Issue Classification 	Application/Control No. 12/291,802	Applicant(s)/Patent under Reexamination JAKOBSON, GABRIEL
	Examiner TAN Q. NGUYEN	Art Unit 3661

ISSUE CLASSIFICATION													
ORIGINAL				INTERNATIONAL CLASSIFICATION									
CLASS		SUBCLASS		CLAIMED				NON-CLAIMED					
701		202		G	01	C	21	/00	G	06	F	17	/30
CROSS REFERENCES													
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)												
701	208	212											
340	995.21												
715	764												
-----				/TAN Q NGUYEN/ April 21, 2011				Total Claims Allowed: 26 O.G. Print Claim(s) 1 O.G. Print Fig. 1, 2A					
(Assistant Examiner) (Date)													
(Legal Instruments Examiner) (Date)				(Primary Examiner) (Date)									

☐ Claims renumbered in the same order as presented by applicant				☐ CPA				☐ T.D.				☐ R.1.47			
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original		
	1	3	31		61		91		121		151		181		
	2	4	32		62		92		122		152		182		
	3	5	33		63		93		123		153		183		
	4	6	34		64		94		124		154		184		
	5	7	35		65		95		125		155		185		
	6	8	36		66		96		126		156		186		
	7	9	37		67		97		127		157		187		
	8	10	38		68		98		128		158		188		
	9	11	39		69		99		129		159		189		
	10	12	40		70		100		130		160		190		
	11	13	41		71		101		131		161		191		
	12	14	42		72		102		132		162		192		
	13	15	43		73		103		133		163		193		
	14	16	44		74		104		134		164		194		
	15	17	45		75		105		135		165		195		
	16	18	46		76		106		136		166		196		
	17	19	47		77		107		137		167		197		
	18	20	48		78		108		138		168		198		
	19	22	49		79		109		139		169		199		
	20	21	50		80		110		140		170		200		
	21	23	51		81		111		141		171		201		
	22	24	52		82		112		142		172		202		
	23	25	53		83		113		143		173		203		
	24	26	54		84		114		144		174		204		
	25		55		85		115		145		175		205		
	26		56		86		116		146		176		206		
	27		57		87		117		147		177		207		
	28		58		88		118		148		178		208		
1	29		59		89		119		149		179		209		
2	30		60		90		120		150		180		210		



UNITED STATES PATENT AND TRADEMARK OFFICE

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

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 04/25/2011
Atida LLC
Attn: Steven Rueben
3862 Ruskin Street
Las Vegas, NV 89147

EXAMINER

NGUYEN, TAN QUANG

ART UNIT

PAPER NUMBER

3661

DATE MAILED: 04/25/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/291,802	11/13/2008	Gabriel Jakobson	WVOHANA	7919

TITLE OF INVENTION: METHOD AND SYSTEM FOR DISPLAYING SOCIAL NETWORKING NAVIGATION INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/25/2011

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

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

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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

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

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

If the SMALL ENTITY is shown as NO:

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

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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

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

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

PART B - FEE(S) TRANSMITTAL

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

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

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

7590 04/25/2011
Atida LLC
Attn: Steven Rueben
3862 Ruskin Street
Las Vegas, NV 89147

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

Certificate of Mailing or Transmission

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

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

12/291,802	11/13/2008	Gabriel Jakobson	WVOHANA	7919
------------	------------	------------------	---------	------

TITLE OF INVENTION: METHOD AND SYSTEM FOR DISPLAYING SOCIAL NETWORKING NAVIGATION INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/25/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, TAN QUANG	3661	701-202000

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

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
(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. 2 _____
3 _____

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

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.111. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

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

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

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

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

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

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

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

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/291,802	11/13/2008	Gabriel Jakobson	WVOHANA	7919
7590		04/25/2011	EXAMINER	
Atida LLC		NGUYEN, TAN QUANG		
Attn: Steven Rueben				
3862 Ruskin Street		ART UNIT		
Las Vegas, NV 89147		PAPER NUMBER		
		3661		

DATE MAILED: 04/25/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 272 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 272 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

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

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

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

Notice of Allowability	Application No.	Applicant(s)	
	12/291,802	JAKOBSON, GABRIEL	
	Examiner	Art Unit	
	TAN Q. NGUYEN	3661	

-- 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 3/9/2011.

2. ☒ The allowed claim(s) is/are 29-54 (now renumbered as 1-26).

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 * Certified copies not received: _____.

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

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ 7. ☐ Examiner's Amendment/Comment 8. ☐ Examiner's Statement of Reasons for Allowance 9. ☐ Other _____.
---	---

/TAN Q NGUYEN/ Primary Examiner, Art Unit 3661	
---	--

Search Notes 	Application/Control No.		Applicant(s)/Patent under Reexamination	
	12/291,802		JAKOBSON, GABRIEL	
	Examiner		Art Unit	
	TAN Q. NGUYEN		3661	

SEARCHED			
Class	Subclass	Date	Examiner
701	202,211 208,212 213	11/5/2010	TN
340	995.14	11/5/2010	TN
340	995.21	11/5/2010	TN
340	995.27	11/5/2010	TN
715	785,764	11/5/2010	TN
updated	searches	4/21/2011	TN
as	above	4/21/2011	TN

INTERFERENCE SEARCHED			
Class	Subclass	Date	Examiner
701	202,208	4/21/2011	TN
701	212	4/21/2011	TN
340 715	995.21 764	4/21/2011	TN

SEARCH NOTES (INCLUDING SEARCH STRATEGY)		
	DATE	EXMR
PLUS SEARCH	11/5/2010	TN
EAST SEARCH	11/5/2010	TN
Interference Search History Printout	4/21/2011	TN

EAST Search History**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	416	map\$4 same display\$4 same distance same center \$4 same (locat\$4 position\$4)	USPAT; UPAD	OR	ON	2011/04/21 14:12
L2	213	1 same (marker point poi)	USPAT; UPAD	OR	ON	2011/04/21 14:12
L3	33	2 same time same rout\$4	USPAT; UPAD	OR	ON	2011/04/21 14:13

4/ 21/ 2011 2:13:24 PM

**C:\ Documents and Settings\ nguyen2\ My Documents\ EAST\ Workspaces
 \ 12-291802 Display POI outside map view with social networking.wsp**



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Number	12/291802
Filing Date	11/13/08
First Named Inventor	Jakobson
Art Unit	3664
Examiner Name	
Attorney Docket Number	WWOHANA

Change(s) applied
to document
/K.D.D./
6/6/2011

Page 180 of 255

PART B - FEE(S) TRANSMITTAL

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

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

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

7590 04/25/2011
 Atida LLC
 Attn: Steven Rueben
 3862 Ruskin Street
 Las Vegas, NV 89147



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

Certificate of Mailing or Transmission

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

<u>Steven Rueben</u>	(Depositor's name)
<u>[Signature]</u>	(Signature)
<u>7/25/11</u>	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/291,802	11/13/2008	Gabriel Jakobson	WVOHANA	7919

TITLE OF INVENTION: METHOD AND SYSTEM FOR DISPLAYING SOCIAL NETWORKING NAVIGATION INFORMATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	07/25/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, TAN QUANG	3661	701-202000

07/29/2011 MBELETE2 00000022 12291802
 01 FC:2501
 02 FC:1504
 755.00 OP
 300.00 OP

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, _____
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
 PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.
 (A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

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

4a. The following fee(s) are submitted:
☒ Issue Fee
☒ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
☒ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)
☒ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).
 NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Steven Rueben
 Typed or printed name Steven Rueben

Date 7/25/11
 Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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.



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/291,802	09/06/2011	8014943	WWOHANA	7919

7590 08/17/2011
Atida LLC
Attn: Steven Rueben
3862 Ruskin Street
Las Vegas, NV 89147

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 269 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Gabriel Jakobson, Las Vegas, NV;



PTO/SB/123 (11-08)

Approved for use through 11/30/2011. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**CHANGE OF
CORRESPONDENCE ADDRESS
Patent**Address to:
Mail Stop Post Issue
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Patent Number	8,014,943
Issue Date	9/6/11
Application Number	12/291,802
Filing Date	11/13/08
First Named Inventor	Jakobson
Attorney Docket Number	WW OHANA

Please change the Correspondence Address for the above-identified patent to:

☐ The address associated with Customer Number.

OR

☒ Firm or Individual Name Petnote LLC

Address 2780 Willow Basket Lane		
City Las Vegas	State NV	ZIP 89135
Country USA		
Telephone (702) 419-6460	Email Stevensliper@aol.com	

This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).

This form will not affect any "fee address" provided for the above-identified patent. To change a "fee address" use the "Fee Address Indication Form" (PTO/SB/47).

I am the:

- ☒ Patentee.
- ☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).
- ☐ Attorney or agent of record. Registration Number _____

Signature

Typed or Printed Name Gabriel Jakobson

Date 12/27/11 Telephone (702) 419-6460

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

☒ *Total of 4 forms are submitted.

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



04124112

IFW/DAC
#

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 8,014,943

Appl. No.: 12/291,802

Applicant: Petnote, LLC

Filing Date: 11/13/2008

Issue Date: 09/06/2011

Title: Method and System for Displaying Social Networking Navigation Information

Examiner: T. Nguyen

Mail Stop OIPE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313
Sir:

**REQUEST FOR CORRECTION OF INVENTORSHIP
IN A PATENT APPLICATION UNDER 37 CFR § 1.324**

Sir:

Applicant(s) hereby request(s) that the inventorship of the above-referenced patent be amended pursuant to 37 C.F.R. § 1.324 to name only the actual inventors.

☒ The Office is requested to amend the inventorship to **ADD** the following omitted inventor(s): **Steven L. Rueben**

☒ **37 C.F.R. 1.324 Correction of inventorship in patent.** The inventive entity was set forth in error in an executed oath or declaration under 37 C.F.R. § 1.63 in a nonprovisional application. This error arose without deceptive intent on the part of the person named as an inventor in error or on the part of the person who through error was not named as an inventor.

In support of this Request, Applicant(s) provide(s):

- ☒ (1) A statement from each person being added as an inventor and/or from each person being deleted as an inventor that the error in inventorship occurred without deceptive intention on his or her part;
- ☒ (2) A statement from the current named inventors who have not submitted a statement
- ☒ (3) A statement from assignee of the parties submitting a statement, agreeing to the change of inventorship in the patent
- ☒ (4) An oath or declaration by the actual inventor or inventors as required by 37 C.F.R. § 1.63, or as permitted by §§ 1.42, 1.43 or 1.47;
- ☒ (5) Certificate of Correction; and

04/25/2012 CNGUYEN2 00000004 0014943

1 of 2

04/25/2012 CNGUYEN2 00000004 0014943

01 FC:1464

130.00 OP

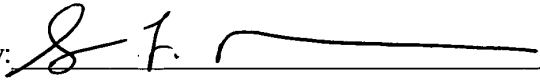
02 FC:1811

100.00 OP

- /
- ☒ (6) The processing fee set forth in 37 C.F.R. § 1.20(b)
- ☒ *Fee Authorization.* The Commissioner is hereby authorized to charge the above-referenced fees of \$ 230 (\$130 for Petition Fee and \$100 for Certificate of Correction) (attached).

Respectfully submitted,

Date: April 19, 2012

By: 

Petnote, LLC

By: Steven L. Rueben, Managing Member



UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 8,014,943

APPLICATION NO.: 12/291,802

ISSUE DATE : 9/6/11

INVENTOR(S) : Jakobson and Rueben

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please add to (76) Inventor:

- Steven L. Rueben, Las Vegas, NV

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Petnote LLC, 2780 Willow Basket Lane, Las Vegas, NV 89135
c/o Steven Rueben

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 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: **Attention Certificate of Corrections Branch, 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/44 (09-07)

Approved for use through 08/31/2013. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 8,014,943

APPLICATION NO.: 12/291,802

ISSUE DATE : 9/6/11

INVENTOR(S) : Jakobson and Rueben

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please add to (76) Inventor:

- Steven L. Rueben, Las Vegas, NV

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Petnote LLC, 2780 Willow Basket Lane, Las Vegas, NV 89135
c/o Steven Rueben

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 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: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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



In The United States Patent And Trademark Office

Patent No.: 8,014,943

Appl. No.: 12/291,802

Applicant: Petnote, LLC

Filing Date: 11/13/2008

Issue Date: 09/06/2011

Title: Method and System for Displaying Social Networking Navigation Information.

Examiner: T. Nguyen

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

Las Vegas, NV 2012 April 23 Mon

Enc:

1. Request for Correction of Inventorship
2. Statement from added inventor
3. Statement from current inventor
4. Statement from assignee agreeing to change of inventorship
 - a. Included as part of this statement are:
 - i. Copy of Assignment 501893580 – Reel 028073/Frame 0779
 - ii. Copy of Assignment 501881924 - Reel 028013/Frame 0661
5. Declaration from the Inventors
6. Certificate of Correction
7. Fee Authorization - \$230 (\$130 for Petition Fee and \$100 for Certification of Correction)

This package is being sent by:

Petnote LLC

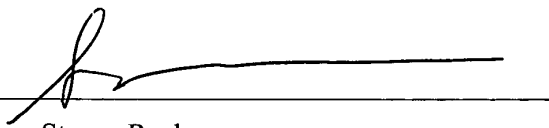
2780 Willow Basket Lane

Las Vegas, Nevada 89135

Tel. (702) 419-6460; Fax (702) 363-4653

Submitted via USPS Express Mail # EI232980171 US on the date detailed below.

2012 April 23


Steven Rueben



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 8,014,943

Appl. No.: 12/291,802

Applicant: Petnote, LLC

Filing Date: 11/13/2008

Issue Date: 09/06/2011

Title: Method and System for Displaying Social Networking Navigation Information

Examiner: T. Nguyen

Mail Stop OIPE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313
Sir:

STATEMENT FROM EACH PERSON BEING ADDED PURSUANT TO 37 CFR § 1.324

I, Steven L. Rueben, declare as follows:

1. Upon review of the specification and claims issued in the above-referenced patent, it is my belief that I am an inventor of the claimed subject matter described in the patent. The original declaration filed for the above-identified application omitted me as an inventor in error.

2. The error in inventorship occurred without deceptive intent on my part.

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

Date: 4/19/12

By: [Signature]

Steven L. Rueben



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 8,014,943

Appl. No.: 12/291,802

Applicant: Petnote, LLC

Filing Date: 11/13/2008

Issue Date: 09/06/2011

Title: Method and System for Displaying Social Networking Navigation Information

Examiner: T. Nguyen

Mail Stop OIPE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313
Sir:

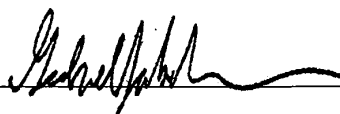
STATEMENT FROM CURRENT INVENTOR PURSUANT TO 37 CFR § 1.324

I, Gabriel Jakobson, declare as follows:

1. I am the current named inventor in the above issued patent.
2. I agree to adding Steven L. Rueben as an inventor in the above issued patent.
3. The error in inventorship occurred without deceptive intent on my part.

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

Date: 4/19/12

By: 

Gabriel Jakobson



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 8,014,943

Appl. No.: 12/291,802

Applicant: Petnote, LLC

Filing Date: 11/13/2008

Issue Date: 09/06/2011

Title: Method and System for Displaying Social Networking Navigation Information

Examiner: T. Nguyen

Mail Stop OIPE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313
Sir:

**CONSENT OF ASSIGNEE TO CORRECTION OF
INVENTORSHIP PURSUANT TO 37 CFR § 1.324**

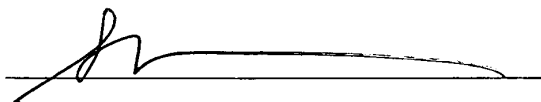
Petnote LLC states that it is:

- ☒ The assignee of the entire right, title and interest, or
- ☐ An assignee of less than the entire right, title and interest. The extent of ownership is ____%, in the patent application identified above by virtue of either:
- ☒ An assignment from the inventor(s) of the patent identified above. The assignment was recorded in the U.S. Patent and Trademark Office at Reel 028013, Frame 0661, and Reel 028073, Frame 0779 or for which a copies thereof is attached.
—OR—
- ☐ A chain of title from the inventor(s), of the patent application to the current assignee is as follows:
1. From: TO:
Recorded in the U.S. Patent and Trademark Office at Reel , Frame ,
or for which a copy is attached.
- ☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned is authorized to act on behalf of the Assignee.

The Assignee hereby assents to the Request for Correction of Inventorship in a Patent, in the above-referenced application, filed herewith.

Dated: 4/19/12

A handwritten signature in dark ink, appearing to be 'SR', written over a horizontal line.

Petnote, LLC

By: Steven L. Rueben, Managing Member



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 10, 2012

PTAS

GABRIEL JAKOBSON
412 PROUD EAGLE LANE
LAS VEGAS, NV 89144

501881924

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 04/09/2012

REEL/FRAME: 028013/0661
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
JAKOBSON, GABRIEL

DOC DATE: 04/09/2012

ASSIGNEE:
PETNOTE LLC
2780 WILLOW BASKET LANE
LAS VEGAS, NEVADA 89135

APPLICATION NUMBER: 12151827
PATENT NUMBER: 8032297
TITLE: METHOD AND SYSTEM FOR DISPLAYING NAVIGATION INFORMATION ON AN ELECTRONIC MAP

FILING DATE: 05/08/2008
ISSUE DATE: 10/04/2011

APPLICATION NUMBER: 12291802
PATENT NUMBER: 8014943
TITLE: METHOD AND SYSTEM FOR DISPLAYING SOCIAL NETWORKING NAVIGATION INFORMATION

FILING DATE: 11/13/2008
ISSUE DATE: 09/06/2011

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT OF PATENT RIGHTS

The undersigned assignor ("Assignor") has invented and wishes to assign inventions and improvements (the "Invention(s)") disclosed in the patent applications and patents filed in the United States Patent and Trademark Office, and/or other governmental offices that are identified on the attached Exhibit A. Assignee desires to acquire the entire right, title and interest in and to the assets and rights conveyed, assigned, and transferred pursuant to this Assignment of Patent Rights, made effective as of November 13, 2008 (this "Assignment").

Now, therefore, for valuable consideration, the receipt and sufficiency of which the Assignor acknowledges, Assignor hereby irrevocably and unconditionally conveys, assigns, and transfers to Petnote, LLC, a Nevada limited liability company ("Assignee"), Assignor's full extent of the right, title, and interest in and to any and all of the following (the "Rights"):

- The Invention(s) and all rights in any country of the world with respect to the Invention(s);
- The patents listed on Exhibit A and all letters patents, United States patents or other governmental grants or issuances that may be granted or issued with respect to the Invention(s) (the "Patent(s)");
- The patent applications listed on Exhibit A and all divisions, continuations (in whole or in part), substitutions, renewals, and other applications claiming priority rights directly or indirectly from the Patents and/or any such applications (the "Application(s)");
- All reissues, requests for continuing examinations, reexaminations, extensions or registrations of the Application(s) and/or the Patent(s);
- All non-United States patents, patent applications, and counterparts with respect to the Invention(s), the Application(s), and the Patent(s) including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances, and including the right to file foreign applications directly in the name of Assignee;
- The right to claim priority rights deriving from the Patent(s) and/or Application(s) and for Assignee to otherwise avail itself of the provisions of the international conventions governing the protection of inventions;
- All causes of action, remedies and other enforcement rights related to the Application(s), the Invention(s), and the Patent(s), including, without limitation, the right to sue for past, present or future infringement, misappropriation or violation of rights related to the Application(s), the Invention(s), and/or the Patent(s);
- All rights to collect royalties and other payments under or on account of any of the Application(s), the Invention(s), and the Patent(s);
- Any and all other rights and interests arising out of, in connection with, or in relation to the Application(s), the Invention(s), and the Patent(s); and
- All documents related to the conception, diligence and reduction to practice of the Invention(s) and all domestic and international patent filing documents.

Assignor will not execute any writing or do any act conflicting with this Assignment, and, without further compensation, will execute all documents and do such additional acts as Assignee deems necessary or desirable to: perfect enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignor will render any requested assistance in making application for and

obtaining original, divisional, continuing (in whole or in part), reissued or extended letters patent on the Invention(s) throughout the world. Assignor requests the respective patent office or governmental agency in each jurisdiction to grant or issue any and all letters patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

A copy of this Assignment will be deemed a full legal and formal equivalent of any document that may be required in any country as proof of the right of Assignee to apply for patent or other protection for any Invention(s) and to claim the benefit of the right of priority thereto. Assignor grants to Assignee the right, power and authority to insert in this Assignment any further information or identification that may be necessary or desirable to comply with the applicable rules and procedures for recordation of this Assignment, or perfecting its benefit, throughout the world.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors or assigns, and anyone properly designated by them and will be binding upon Assignor, its successors or assigns, and anyone properly designated by them. This Assignment may be executed in counterparts.

ASSIGNORS:

Gabriel Jakobson


(signature must be attested)

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. § 1746

The undersigned witnessed the signature of Gabriel Jakobson to the above Assignment of Patent Rights and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Gabriel Jakobson is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on April 9, 2012 to execute the above Assignment of Patent Rights.
3. Gabriel Jakobson subscribed to the above Assignment of Patent Rights.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on 4/9/12 (date)



Print Name: RACHAEL SAVALLI

EXHIBIT A

U.S. Application/ Patent No.	U.S. Filing/Date	Title and Name of First Named Inventor
8014943	11/13/2008	Method and system for displaying social networking navigation information Gabriel Jakobson



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 20, 2012

PTAS

STEVEN RUEBEN
2780 WILLOW BASKET LANE
LAS VEGAS, NV 89135

501893580

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 04/19/2012

REEL/FRAME: 028073/0779
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: WIDEWEKE WWOHANA1

ASSIGNOR:
RUEBEN, STEVEN

DOC DATE: 04/17/2012

ASSIGNEE:
PETNOTE LLC
2780 WILLOW BASKET LANE
LAS VEGAS, NEVADA 89135

APPLICATION NUMBER: 12151827
PATENT NUMBER: 8032297
TITLE: METHOD AND SYSTEM FOR DISPLAYING NAVIGATION INFORMATION ON AN ELECTRONIC MAP

FILING DATE: 05/08/2008
ISSUE DATE: 10/04/2011

APPLICATION NUMBER: 12291802
PATENT NUMBER: 8014943
TITLE: METHOD AND SYSTEM FOR DISPLAYING SOCIAL NETWORKING NAVIGATION INFORMATION

FILING DATE: 11/13/2008
ISSUE DATE: 09/06/2011

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV

ASSIGNMENT OF PATENT RIGHTS

The undersigned assignor ("Assignor") has invented and wishes to assign inventions and improvements (the "Invention(s)") disclosed in the patent applications and patents filed in the United States Patent and Trademark Office, and/or other governmental offices that are identified on the attached Exhibit A. Assignee desires to acquire the entire right, title and interest in and to the assets and rights conveyed, assigned, and transferred pursuant to this Assignment of Patent Rights, made effective as of November 13, 2008 (this "Assignment").

Now, therefore, for valuable consideration, the receipt and sufficiency of which the Assignor acknowledges, Assignor hereby irrevocably and unconditionally conveys, assigns, and transfers to Petnote, LLC, a Nevada limited liability company ("Assignee"), Assignor's full extent of the right, title, and interest in and to any and all of the following (the "Rights"):

- The Invention(s) and all rights in any country of the world with respect to the Invention(s);
- The patents listed on Exhibit A and all letters patents, United States patents or other governmental grants or issuances that may be granted or issued with respect to the Invention(s) (the "Patent(s)");
- The patent applications listed on Exhibit A and all divisions, continuations (in whole or in part), substitutions, renewals, and other applications claiming priority rights directly or indirectly from the Patents and/or any such applications (the "Application(s)");
- All reissues, requests for continuing examinations, reexaminations, extensions or registrations of the Application(s) and/or the Patent(s);
- All non-United States patents, patent applications, and counterparts with respect to the Invention(s), the Application(s), and the Patent(s) including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances, and including the right to file foreign applications directly in the name of Assignee;
- The right to claim priority rights deriving from the Patent(s) and/or Application(s) and for Assignee to otherwise avail itself of the provisions of the international conventions governing the protection of inventions;
- All causes of action, remedies and other enforcement rights related to the Application(s), the Invention(s), and the Patent(s), including, without limitation, the right to sue for past, present or future infringement, misappropriation or violation of rights related to the Application(s), the Invention(s), and/or the Patent(s);
- All rights to collect royalties and other payments under or on account of any of the Application(s), the Invention(s), and the Patent(s);
- Any and all other rights and interests arising out of, in connection with, or in relation to the Application(s), the Invention(s), and the Patent(s); and
- All documents related to the conception, diligence and reduction to practice of the Invention(s) and all domestic and international patent filing documents.

Assignor will not execute any writing or do any act conflicting with this Assignment, and, without further compensation, will execute all documents and do such additional acts as Assignee deems necessary or desirable to: perfect enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignor will render any requested assistance in making application for and

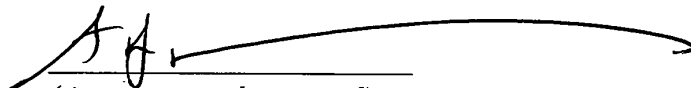
obtaining original, divisional, continuing (in whole or in part), reissued or extended letters patent on the Invention(s) throughout the world. Assignor requests the respective patent office or governmental agency in each jurisdiction to grant or issue any and all letters patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

A copy of this Assignment will be deemed a full legal and formal equivalent of any document that may be required in any country as proof of the right of Assignee to apply for patent or other protection for any Invention(s) and to claim the benefit of the right of priority thereto. Assignor grants to Assignee the right, power and authority to insert in this Assignment any further information or identification that may be necessary or desirable to comply with the applicable rules and procedures for recordation of this Assignment, or perfecting its benefit, throughout the world.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors or assigns, and anyone properly designated by them and will be binding upon Assignor, its successors or assigns, and anyone properly designated by them. This Assignment may be executed in counterparts.

ASSIGNOR:

Steven L. Rueben


(signature must be attested)

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. § 1746

The undersigned witnessed the signature of Steven L. Rueben to the above Assignment of Patent Rights and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Steven L. Rueben is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on _____, 2012 to execute the above Assignment of Patent Rights.
3. Steven L. Rueben subscribed to the above Assignment of Patent Rights.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on 4-17-12 (date)


Print Name: ROBERT HARRISON

EXHIBIT A

U.S. Application/ Patent No.	U.S. Filing/Date	Title and Name of First Named Inventor
8014943	11/13/2008	Method and system for displaying social networking navigation information Gabriel Jakobson



SUPPLEMENTAL DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

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

I believe I am a joint inventor of subject matter which is claimed and for which a patent is sought by way of the application entitled:

“Method and System for Displaying Social Networking Navigation Information”

which (check) ☐ is attached hereto.
☐ and is amended by the Preliminary Amendment attached hereto.
☒ was filed on **November 13, 2008** as Application Serial No. 12/291,802
☐ and was amended on (if applicable).

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

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Day/Month/Year Filed	Yes	No
			☐	☐

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
N/A	

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending, abandoned)
12/151,827	May 8, 2008	Issued Patent No. 8,032,297 on October 4, 2011

I declare that all statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and all statements made herein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties including fine or imprisonment or both as set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or this document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom.

Full name of joint inventor: Steven L. Rueben
 Inventor's Signature: [Signature] Date: 4/19/12
 Residence City and State: Las Vegas, NV
 Mailing Address: 2780 Willow Backett Ave Citizenship: USA
Las Vegas NV 89135

Full name of joint inventor: Gabriel Jakobson
 Inventor's Signature: [Signature] Date: 4/19/12
 Residence City and State: Las Vegas, NV
 Mailing Address: 412 Proud Eagle Lane Citizenship: USA
Las Vegas, NV 89144

37 C.F.R. §1.56
Duty to disclose information material to patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

RECEIVED
CENTRAL FAX CENTER

MAY 08 2012

PTO/SB/86 (11-08)

Approved for use through 11/30/2011. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:

☒

Practitioners associated with the Customer Number:

11788

OR

☐

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:

☒

The address associated with Customer Number:

11788

OR

☐

Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

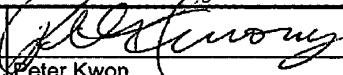
Assignee Name and Address:

Neske Research K.G. L.L.C.
2711 Centerville Rd
Suite 400
Wilmington, DE 19808

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/86 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

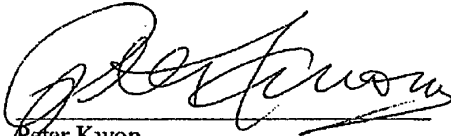
Signature		Date	4/27/12
Name	Peter Kwon	Telephone	
Title	Authorized Person for Neske Research K.G. L.L.C.		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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

DECLARATION REGARDING AUTHORITY TO SIGN
ON BEHALF OF A LEGAL ENTITY
37 C.F.R. 3.73(b)(2)(i)

I, Peter Kwon (whose title is supplied below), hereby declare that I am authorized to sign documents on behalf of Neske Research K.G. L.L.C.



Peter Kwon

Authorized Person for Neske Research K.G. L.L.C.

Date 4/27/12

RECEIVED
CENTRAL FAX CENTER

MAY 08 2012

PATENT APPLICATION
Docket No. 6995-0003

STATEMENT UNDER 37 CFR 3.73 (b)

Application No.: 12/291,802 Patent No.: 8,014,943
Filing Date: 11-13-2008 Issue Date: 09-06-2011
Title: METHOD AND SYSTEM FOR DISPLAYING SOCIAL NETWORKING
NAVIGATION INFORMATION

NESKE RESEARCH K.G. L.L.C., whose principal place of business is located at 2711 Centerville Road, Suite 400, Wilmington Delaware, 19808, states that it is:

1. ☒ the assignee of the entire right, title and interest; or
2. ☐ an assignee of less than the entire right, title and interest
The extent (by percentage) of its ownership is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____.

OR

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

1. From: Gabriel Jakobson To: Petnote LLC
The document was recorded in the Patent and Trademark Office at
Reel 028013, Frame 0661.
2. From: Steven Rueben To: Petnote LLC
The document was recorded in the Patent and Trademark Office at
Reel 028073, Frame 0779.
3. From: Petnote LLC To: Neske Research K.G. L.L.C.
The document was recorded in the Patent and Trademark Office at
Reel 028166, Frame 0155.

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.
[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

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

Date: May 8, 2012

Signature /Bryan D. Kirkpatrick/
BRYAN D. KIRKPATRICK
Reg. No. 35,139
Attorney for Assignee

FAX
TRANSMISSION

RECEIVED
CENTRAL FAX CENTER
MAY 08 2012

To: 15712738300
From: Heather Kulin
ATTN: Commissioner for Patents re 12/291,802 (6995-0003)

Message: App. No.: 12/291,802
Filed: 11-13-2008
Pat. No.: 8,014,943
Issued: 9-6-2011

Please record the attached **Power of Attorney** at your earliest convenience.

Heather Kulin
Legal Assistant

STOLOWITZ FORD COWGER LLP
American Bank Building Suite 600
621 SW Morrison Street
Portland, OR 97205
e. heather@stofoco.com
o. 503.224.2170 ext 215
f. 503.224.2084

CONFIDENTIAL AND ATTORNEY-CLIENT PRIVILEGED



Stolowitz Ford Cowger, LLP
621 SW Morrison, Suite 600, Portland, OR 97205
Tel: 503-224-2170 Fax: 503-224-2084
Website: www.stofoco.com

CONFIDENTIAL AND PRIVILEGED INFORMATION

This facsimile transmission contains confidential attorney/client privileged information and is for use by the intended recipient only. Distribution or any other use of this transmission by anyone other than the intended recipient is prohibited. If you receive this transmission in error, please notify the sender immediately.

RECEIVED
CENTRAL FAX CENTER

MAY 08 2012

PATENT APPLICATION
Docket No. 6995-0003

TRANSMITTAL LETTER – POWER OF ATTORNEY

Application No.: 12/291,802 Patent No.: 8,014,943
Filing Date: 11-13-2008 Issue Date: 09-06-2011
Title: METHOD AND SYSTEM FOR DISPLAYING SOCIAL
NETWORKING NAVIGATION INFORMATION
Date: May 8, 2012

COMMISSIONER FOR PATENTS
VIA FAX 571-273-8300

TOTAL PAGES (including this cover sheet): 4

Attached are:

- ☒ Power of Attorney to Prosecute Applications Before the PTO
- ☒ Declaration Regarding Authority to Sign on Behalf of a Legal Entity
- ☒ Statement Under 37 CFR 3.73b

Respectfully submitted,

STOLOWITZ FORD COWGER LLP

/Bryan D. Kirkpatrick/
BRYAN D. KIRKPATRICK
Reg. No. 53,135

STOLOWITZ FORD COWGER LLP
621 SW Morrison Street, Suite 600
Portland, Oregon 97205
Customer No. 73552



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
12/291,802	11/13/2008	Gabriel Jakobson	6995-0003

CONFIRMATION NO. 7919

POA ACCEPTANCE LETTER

11788
Stolowitz Ford Cowger LLP / ptomail
621 SW Morrison Street
Suite 600
Portland, OR 97205



Date Mailed: 05/23/2012

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/08/2012.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/snguyen/

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



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 8014943
Issue Date: 06 September 2011
Appl. No.: 12/291,802
Filed: 13 November 2008

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed ____.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)

☒ Approved ☐ Approved in Part ☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☒ This is a decision on the petition filed 23 April 2012 to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed _____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☒ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/THOMAS G BLACK/
Supervisory Patent Examiner, Art Unit 3661
Technology Center 3600
Phone: (571)272-6966

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 8014943
Issue Date: 06 September 2011
Appl. No.: 12/291,802
Filed: 13 November 2008

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed ____.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)

☒ Approved

☐ Approved in Part

☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☒ This is a decision on the petition filed 23 April 2012 to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed _____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby:

☒ Granted

☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/THOMAS G BLACK/
Supervisory Patent Examiner, Art Unit 3661
Technology Center 3600
Phone: (571)272-6966

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 8014943
Issue Date: 06 September 2011
Appl. No.: 12/291,802
Filed: 13 November 2008

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed ____.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)

☒ Approved

☐ Approved in Part

☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☒ This is a decision on the petition filed 23 April 2012 to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed _____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby:

☒ Granted

☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/THOMAS G BLACK/
Supervisory Patent Examiner, Art Unit 3661
Technology Center 3600
Phone: (571)272-6966

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814



UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 8014943
Issue Date: 06 September 2011
Appl. No.: 12/291,802
Filed: 13 November 2008

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed ____.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)

☒ Approved ☐ Approved in Part ☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☒ This is a decision on the petition filed 23 April 2012 to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed _____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☒ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/THOMAS G BLACK/
Supervisory Patent Examiner, Art Unit 3661
Technology Center 3600
Phone: (571)272-6966

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/291,802	11/13/2008	Gabriel Jakobson	6995-0003	7919
11788	7590	10/29/2018		
Schwabe, Williamson & Wyatt/SFC-FC 1211 SW Fifth Ave. Suite 1900 Portland, OR 97204			EXAMINER NGUYEN, TAN QUANG	
			ART UNIT 3661	PAPER NUMBER
			NOTIFICATION DATE 10/29/2018	DELIVERY MODE 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):

IPDocketing@SCHWABE.com

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 8,014,943 B2
APPLICATION NO. : 12/291802
DATED : September 6, 2011
INVENTOR(S) : Jakobson and Rueben

Page 1 of 1

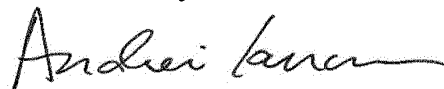
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Please add to (76) Inventor:

- Steven L. Rueben, Las Vegas, NV -

Signed and Sealed this
Twentieth Day of November, 2018



Andrei Iancu
Director of the United States Patent and Trademark Office

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00383	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT TCT MOBILE INTERNATIONAL LIMITED AND TCL COMMUNICATION TECHNOLOGY HOLDINGS LIMITED
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY		
	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00383	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT TCT MOBILE INTERNATIONAL LIMITED AND TCL COMMUNICATION TECHNOLOGY HOLDINGS LIMITED
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,478,527	7/2/2013	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	
	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00384	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT KYOCERA CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:20-cv-00384	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT KYOCERA CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,478,527	7/2/2013	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:20-cv-00385	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT SHENZHEN ONEPLUS SCIENCE & TECHNOLOGY CO., LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:20-cv-00385	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT SHENZHEN ONEPLUS SCIENCE & TECHNOLOGY CO., LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,478,527	7/2/2013	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:20-cv-00386	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT ZTE CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Eastern District of Texas, Marshall Division _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00386	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEFENDANT ZTE CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,478,527	7/2/2013	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Eastern District of Texas, Marshall Division _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00385	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEPENDANT SHENZHEN ONEPLUS SCIENCE & TECHNOLOGY CO., LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT	<p>The Court ACCEPTS AND ACKNOWLEDGES that the above-captioned case is DISMISSED WITH PREJUDICE. Each party is to bear its own costs and fees.</p>
--------------------	--

CLERK David O'Toole	(BY) DEPUTY CLERK Kecia Clendening	DATE 06/18/2021
------------------------	---------------------------------------	--------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Eastern District of Texas, Marshall Division _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00385	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEPENDANT SHENZHEN ONEPLUS SCIENCE & TECHNOLOGY CO., LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,478,527	7/2/2013	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Eastern District of Texas, Marshall Division _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00386	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEPENDANT ZTE CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT Court RECOGNIZES that Plaintiff's claims against ZTE are DISMISSED WITH PREJUDICE

CLERK <i>David A. O'Poole</i>	(BY) DEPUTY CLERK ch	DATE 7/26/21
----------------------------------	-------------------------	------------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Eastern District of Texas, Marshall Division _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:20-cv-00386	DATE FILED 12/15/2020	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NORTHSTAR SYSTEMS LLC		DEPENDANT ZTE CORPORATION
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,478,527	7/2/2013	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00143	DATE FILED 5/11/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Honda Motor Co. LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3 8,805,416	8/12/2014	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Eastern District of Texas, Marshall Division _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: <div style="text-align: center;"> Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 </div>	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
--	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following
☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.)

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	
	☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT						
<table border="1" style="width: 100%;"> <tr> <td style="width: 33%;">CLERK</td> <td style="width: 33%;">(BY) DEPUTY CLERK</td> <td style="width: 33%;">DATE</td> </tr> <tr> <td style="height: 30px;"></td> <td style="height: 30px;"></td> <td style="height: 30px;"></td> </tr> </table>	CLERK	(BY) DEPUTY CLERK	DATE			
CLERK	(BY) DEPUTY CLERK	DATE				

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court _____ for the Eastern District of Texas, Marshall Division _____ on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00143	DATE FILED 5/11/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Honda Motor Co. LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3 8,805,416	8/12/2014	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT						
<table border="1" style="width: 100%;"> <tr> <td style="width: 40%;">CLERK</td> <td style="width: 40%;">(BY) DEPUTY CLERK</td> <td style="width: 20%;">DATE</td> </tr> <tr> <td style="height: 30px;"></td> <td></td> <td></td> </tr> </table>	CLERK	(BY) DEPUTY CLERK	DATE			
CLERK	(BY) DEPUTY CLERK	DATE				

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00267	DATE FILED 7/18/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Lenovo Group Limited
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/9/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00267	DATE FILED 7/18/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Lenovo Group Limited
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3 9,609,283	3/28/2017	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00265	DATE FILED 7/15/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT HP Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,805,416	8/12/2014	NorthStar Systems LLC
2 6,995,708	2/7/2006	NorthStar Systems LLC
3 8,014,943	9/6/2011	NorthStar Systems LLC
4 8,032,297	10/4/2011	NorthStar Systems LLC
5 6,603,977	8/5/2003	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00265	DATE FILED 7/15/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT HP Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,797	9/6/2011	NorthStar Systems LLC
2 7,606,555	10/20/2009	NorthStar Systems LLC
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00323	DATE FILED 8/19/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Mercedes-Benz Group AG
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	
2 8,032,297	10/4/2011	
3 8,805,416	8/12/2014	
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00265	DATE FILED 7/15/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT HP Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,805,416	8/12/2014	NorthStar Systems LLC
2 6,995,708	2/7/2006	NorthStar Systems LLC
3 8,014,943	9/6/2011	NorthStar Systems LLC
4 8,032,297	10/4/2011	NorthStar Systems LLC
5 6,603,977	8/5/2003	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT Court ACCEPTS AND ACKNOWLEDGES that all claims and causes of action asserted by Plaintiff in the above-captioned case are DISMISSED WITH PREJUDICE

CLERK <i>David A. O'Toole</i>	(BY) DEPUTY CLERK cn	DATE 9/20/22
----------------------------------	-------------------------	------------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00265	DATE FILED 7/15/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT HP Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,797	9/6/2011	NorthStar Systems LLC
2 7,606,555	10/20/2009	NorthStar Systems LLC
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00143	DATE FILED 5/11/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Honda Motor Co. LTD.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3 8,805,416	8/12/2014	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT Court ACCEPTS AND ACKNOWLEDGES that all claims and causes of action asserted by Plaintiff in the above-captioned case are DISMISSED WITH PREJUDICE.		
CLERK <i>David A. O'Poole</i>	(BY) DEPUTY CLERK ch	DATE 9/20/22

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/19/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT Court ACCEPTS AND ACKNOWLEDGES that all claims and causes of action in Case No. 2:22-cv-00139 are DISMISSED WITH PREJUDICE
--

CLERK <i>David A. O'Poole</i>	(BY) DEPUTY CLERK ch	DATE 10/13/22
-------------------------------	-------------------------	-------------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00139	DATE FILED 5/10/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Xiaomi Corporation, Xiaomi Communications Co. LTD., and Xiaomi Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3		
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

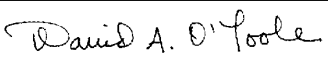
DOCKET NO. 2:22-cv-00323	DATE FILED 8/19/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Mercedes-Benz Group AG
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	
2 8,032,297	10/4/2011	
3 8,805,416	8/12/2014	
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT Court ACCEPTS AND ACKNOWLEDGES that all claims and causes of action asserted by Plaintiff in the above-captioned case are DISMISSED WITH PREJUDICE.
--

CLERK 	(BY) DEPUTY CLERK ch	DATE 9/20/22
--	-------------------------	------------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00267	DATE FILED 7/18/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Lenovo Group Limited
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 7,817,085	10/9/2010	NorthStar Systems LLC
2 7,327,312	2/5/2008	NorthStar Systems LLC
3 8,717,231	5/6/2014	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 6,995,708	2/7/2006	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT Court ACCEPTS AND ACKNOWLEDGES that all claims and causes of action in Case No. 2:22-cv-00267 are DISMISSED WITH PREJUDICE
--

CLERK <i>David A. O'Toole</i>	(BY) DEPUTY CLERK c	DATE 10/12/22
----------------------------------	----------------------------	-------------------------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.);

DOCKET NO. 2:22-cv-00267	DATE FILED 7/18/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Lenovo Group Limited
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,014,943	9/6/2011	NorthStar Systems LLC
2 8,032,297	10/4/2011	NorthStar Systems LLC
3 9,609,283	3/28/2017	NorthStar Systems LLC
4		
5		

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08-10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.)

DOCKET NO. 2:22-cv-00495	DATE FILED 12/23/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Hyundai Motor Group, Hyundai Motor Company, and Kia Motors Corporation
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,898,432	5/24/2005	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 8,478,527	7/2/2013	NorthStar Systems LLC

In the above--entitled case, the following patent(s) trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above--entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court **for the Eastern District of Texas, Marshall Division** on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.)

DOCKET NO. 2:22-cv-00486	DATE FILED 12/22/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Volkswagen AG
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,898,432	5/24/2005	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 8,478,527	7/2/2013	NorthStar Systems LLC

In the above--entitled case, the following patent(s) trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above--entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

Copy 1--Upon initiation of action, mail this copy to Director Copy 3--Upon termination of action, mail this copy to Director
 Copy 2--Upon filing document adding patent(s), mail this copy to Director Copy 4--Case file copy

AO 120 (Rev. 08-10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.)

DOCKET NO. 2:22-cv-00496	DATE FILED 12/27/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT Bayerische Motoren Werke AG
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 6,898,432	5/24/2005	NorthStar Systems LLC
2 8,014,943	9/6/2011	NorthStar Systems LLC
3 8,032,297	10/4/2011	NorthStar Systems LLC
4 8,805,416	8/12/2014	NorthStar Systems LLC
5 8,478,527	7/2/2013	NorthStar Systems LLC

In the above—entitled case, the following patent(s) trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE
-------	-------------------	------

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
 Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy

AO 120 (Rev. 08/10)

TO: Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
---	---

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court for the Eastern District of Texas, Marshall Division on the following

☐ Trademarks or ☒ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO. 2:22-cv-00265	DATE FILED 7/15/2022	U.S. DISTRICT COURT for the Eastern District of Texas, Marshall Division
PLAINTIFF NorthStar Systems LLC		DEFENDANT HP Inc.
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 8,805,416	8/12/2014	NorthStar Systems LLC
2 6,995,708	2/7/2006	NorthStar Systems LLC
3 8,014,943	9/6/2011	NorthStar Systems LLC
4 8,032,297	10/4/2011	NorthStar Systems LLC
5 6,603,977	8/5/2003	NorthStar Systems LLC

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading		
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK	
1			
2			
3			
4			
5			

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT		
CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director
Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy