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EXHIBIT B

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US009408055B2

(12) United States Patent

Beyer, Jr.

(54) METHOD TO PROVIDE AD HOC AND PASSWORD PROTECTED DIGITAL AND VOICE NETWORKS

- (71) Applicant: Advanced Ground Information Systems, Inc., Jupiter, FL (US)
- (72) Inventor: Malcolm K. Beyer, Jr., Jupiter, FL (US)
- (73) Assignee: Advanced Ground Information Systems, Inc., Jupiter, FL (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 14/695,233
- (22) Filed: Apr. 24, 2015

(65) **Prior Publication Data**

US 2015/0319789 A1 Nov. 5, 2015

Related U.S. Application Data

(63) Continuation of application No. 14/529,978, filed on Oct. 31, 2014, which is a continuation-in-part of application No. 14/027,410, filed on Sep. 16, 2013, now Pat. No. 8,880,042, which is a continuation of

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(51) Int. Cl. *H04W 24/00* (2009.01) *H04M 11/04* (2006.01)

(Continued)

(Continued)

(10) Patent No.: US 9,408,055 B2

(45) **Date of Patent:** Aug. 2, 2016

(56) **References Cited**

U.S. PATENT DOCUMENTS

| 5,555,286 A 5,898,434 A | | Tendler Small et al. |
|----------------------------|-------------|-------------------------|
| | (Continued) | |

FOREIGN PATENT DOCUMENTS

| JP | H085394 | 1/1996 |
|----|-----------|--------|
| JP | H09113288 | 5/1997 |
| | | |

(Continued)

OTHER PUBLICATIONS

Gate5, "Mobile Community Solution: Context-sensitive application suite for mobile communities," published in 2002. (Continued)

(00111111)

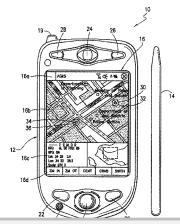
Primary Examiner — Omoniyi Obayanju

(74) Attorney, Agent, or Firm - Goodwin Procter LLP

(57) **ABSTRACT**

A method and system includes the ability for individuals to set up an ad hoc digital and voice network easily and rapidly to allow users to coordinate their activities by eliminating the need for pre-entry of data into a web or identifying others by name, phone numbers or email. This method is especially useful for police, fire fighters, military, first responders or other emergency situations for coordinating different organizations at the scene of a disaster to elevate conventional communication problems either up and down the chain of command or cross communication between different emergency units. The method and system provides that the users are only required to enter a specific Server IP address and an ad hoc event name, a password and perhaps the name of the particular unit.

54 Claims, 7 Drawing Sheets



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Related U.S. Application Data

application No. 13/751,453, filed on Jan. 28, 2013, now Pat. No. 8,538,393, which is a continuation-inpart of application No. 12/761,533, filed on Apr. 16, 2010, now Pat. No. 8,364,129, which is a continuationin-part of application No. 11/615,472, filed on Dec. 22, 2006, now Pat. No. 8,126,441, which is a continuationin-part of application No. 11/308,648, filed on Apr. 17, 2006, now Pat. No. 7,630,724, which is a continuationin-part of application No. 10/711,490, filed on Sep. 21, 2004, now Pat. No. 7,031,728.

.)

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| IIII. UI. | |
|-------------|----------|
| H04W 4/22 | (2009.01 |
| H04W 76/00 | (2009.01 |
| H04M 1/725 | (2006.01 |
| H04W 68/00 | (2009.01 |
| H04W 4/02 | (2009.01 |
| H04W 4/08 | (2009.01 |
| H04W 64/00 | (2009.01 |
| H04W 84/18 | (2009.01 |
| H04W 12/08 | (2009.01 |
| H04W 12/02 | (2009.01 |
| G06F 3/0482 | (2013.01 |
| G06F 3/0484 | (2013.01 |
| H04L 29/06 | (2006.01 |
| H04L 29/08 | (2006.01 |
| H04W 76/02 | (2009.01 |
| H04W 4/10 | (2009.01 |
| H04M 1/2745 | (2006.01 |

(52) U.S. Cl.

DOCKE

RM

(56) **References Cited**

U.S. PATENT DOCUMENTS

| 6,204,844 | B1 | 3/2001 | Fumarolo et al. |
|-----------|----|---------|-----------------|
| 6,292,747 | B1 | 9/2001 | Amro et al. |
| 6,366,782 | B1 | 4/2002 | Fumarolo et al. |
| 6,377,210 | B1 | 4/2002 | Moore |
| 6,385,465 | B1 | 5/2002 | Yoshioka |
| 6,434,403 | B1 | 8/2002 | Ausems et al. |
| 6,490,521 | B2 | 12/2002 | Wiener |
| 6,518,957 | B1 | 2/2003 | Lehtinen et al. |
| 6,542,475 | B1 | 4/2003 | Bala et al. |
| 6,549,768 | B1 | 4/2003 | Fraccaroli |
| 6,662,016 | B1 | 12/2003 | Buckham et al. |
| 6,716,101 | B1 | 4/2004 | Meadows et al. |
| 6,775,560 | B2 | 8/2004 | King et al. |
| 6,868,333 | B2 | 3/2005 | Melen |
| 6,868,337 | B2 | 3/2005 | Muramatsu |
| 6,882,856 | B1 | 4/2005 | Alterman et al. |
| 6,885,874 | B2 | 4/2005 | Grube et al. |
| 7,024,207 | B2 | 4/2006 | Gorday et al. |
| | | | |

| 7,299,075 | B2 | 11/2007 | Gottlieb et al. |
|--------------|-----|---------|-------------------------|
| 7,330,112 | B1 | 2/2008 | Emigh et al. |
| 7,486,648 | B1 | 2/2009 | Baranowski |
| 7,499,799 | B2 | 3/2009 | Park |
| 7,593,740 | B2 | 9/2009 | Crowley et al. |
| 8,014,763 | | 9/2011 | Hymes H04M 1/26 |
| , , | | | 455/414.2 |
| 8,139,514 | B2 | 3/2012 | Weber et al. |
| 2001/0044321 | AI | 11/2001 | Ausems et al. |
| 2003/0013461 | Al | 1/2003 | Mizune et al. |
| 2003/0093405 | A1 | 5/2003 | Mayer |
| 2003/0139150 | Al | 7/2003 | Rodriguez et al. |
| 2003/0149527 | A1 | 8/2003 | Sikila |
| 2003/0200259 | Al | 10/2003 | Tsuge |
| 2004/0054428 | | 3/2004 | Sheha et al. |
| 2004/0137884 | | 7/2004 | Engstrom H04L 12/586 |
| 2001/010/001 | | | 455/414.1 |
| 2004/0143391 | A1 | 7/2004 | King et al. |
| 2004/0148090 | A1* | 7/2004 | Melen 701/200 |
| 2004/0192299 | A1 | 9/2004 | Wilson et al. |
| 2004/0204070 | A1 | 10/2004 | August et al. |
| 2004/0252050 | A1 | 12/2004 | Tengler et al. |
| 2004/0266456 | A1 | 12/2004 | Bostrom et al. |
| 2005/0060069 | A1 | 3/2005 | Breed et al. |
| 2005/0130634 | A1 | 6/2005 | Godfrey |
| 2005/0227705 | A1 | 10/2005 | Rousu et al. |
| 2006/0030339 | A1 | 2/2006 | Zhovnirovsky et al. |
| 2006/0031927 | A1 | 2/2006 | Mizuno et al. |
| 2006/0047825 | A1* | 3/2006 | Steenstra et al 709/229 |
| 2007/0150444 | A1 | 6/2007 | Chesnais et al. |
| 2007/0281689 | A1 | 12/2007 | Altman et al. |
| 2008/0132243 | | 6/2008 | Spalink et al. |
| 2010/0052945 | | | |
| | A1* | 3/2010 | Breed B60N 2/2863 |

FOREIGN PATENT DOCUMENTS

| JP | 2000/357296 | 12/2000 |
|----|-------------|---------|
| JP | 2002245336 | 8/2002 |
| JP | 2002/277256 | 9/2002 |
| WO | 03074973 A2 | 9/2003 |

OTHER PUBLICATIONS

Gate5, "Mobile Guide Solution: Context-sensitive applications for PDA based mobile city and travel guides," published in 2002.

Batista, "Your Boss May Know Where You Are," Wired News, published May 31, 2002.

Edlund, Therese et al., "Mobile Services for truck drivers," Master thesis in Mobile Informatics, IT University of Goteborg, Sweden, 2003.

The Gate5 system, which, upon information and belief, was sold and/or publicly used within the U.S. prior to 2004 and at least as early as 2002.

Kim, Ryan, "Find Friends by cell phone/Loopt application's GPS program can beam map location," published Nov. 14, 2006 by SFGate.

LocatioNet Press Release: "LocatioNet Releases Ground Breaking Mass Market LBS Application Suite—LocatioNet MyMap," published May 6, 2003.

LocatioNet LBS Applications: MyMap description web page, published before 2004 upon information and belief.

The LocatioNet system which, upon information and belief, was sold and/or publically used within the U.S. prior to 2004 and at least as early as 2003.

Luna, Lynnette, "This Man Knows You Live . . . and Work and Play," Wireless Review, Sep. 2002; pp. 24-32.

Meggers, Jens et al., "A Multimedia Communication Architecture for Handheld Devices," IEEE Paper 0-7803-4872-9/98, published 1998. Memory Map Remote Tracking, available at https://web.archive.org/ web/20060202161013/http://memory-map.com/.

Ostman, Lennart, "A Study of Location-Based Services Including a Design and Implementation of an Enhanced Friend Finder Client with Mapping Capabilities," Lulea Tekniska Univertet, 2001.

US 9,408,055 B2

Page 3

(56) **References Cited**

OTHER PUBLICATIONS

Elisa Batista, Your Boss May Know Where You Are, May 31, 2002, <http://archive.wired.com/gadgets/wireless/news/2002/05/52852?currentPage=all>.

International Preliminary Report on Patentability for International Patent Application No. PCT/JP2004/000250, dated Jul. 15, 2005 (4 pages).

Garmin rino 110 2-way radio & personal navigator: Owner's manual and reference guide, dated Apr. 2003 (88 pages).

Life360's Rule 50(a) Motion for Judgment as a Matter of Law, *AGIS*, *Inc.* v. *Life360*, *Inc.* (*S.D. FI.*), dated Mar. 12, 2015 (27 pages). Plaintiff Advanced Ground Information Systems, Inc.'s Motions in Limine, *AGIS*, *Inc.* v. *Life360*, *Inc.* (*S.D. FI.*), dated Feb. 19, 2015 (54 pages).

"Trimble GPS Technology Enables Seiko Epson Communication Device and Wireless Data Service," Nov. 8, 1999 [retrieved on Jun. 16, 2016]. Retrieved from http://www.prnewswire.com/news-releases/trimble-gps-technology-enables-seiko-epson-communication-device-and-wireless-data-service-77056402.html. 4 pages.

* cited by examiner

U.S. Patent

Aug. 2, 2016

US 9,408,055 B2

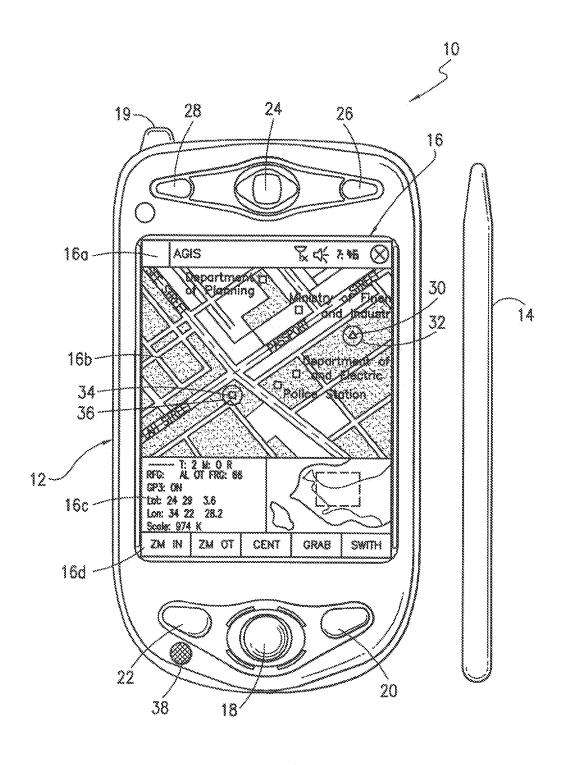


FIG. 1

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