

EXHIBIT B



(12) **United States Patent**
Beyer, Jr. et al.

(10) **Patent No.:** **US 9,467,838 B2**
 (45) **Date of Patent:** ***Oct. 11, 2016**

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

USPC 455/404.2, 456.1
 See application file for complete search history.

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(56) **References Cited**
 U.S. PATENT DOCUMENTS
 5,555,286 A 9/1996 Tendler
 5,898,434 A 4/1999 Small et al.
 (Continued)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
 This patent is subject to a terminal disclaimer.

FOREIGN PATENT DOCUMENTS
 JP H085394 1/1996
 JP H09113288 5/1997
 (Continued)

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Related U.S. Application Data

OTHER PUBLICATIONS
 Benefon ESC! GSM + GPS Personal Navigation Phone, 1999, Benefon Oyj, Salo, Finland.
 (Continued)

(63) 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 application No. 13/751,453, filed on Jan. 28, 2013, now Pat. No. 8,538,393, which is a
 (Continued)

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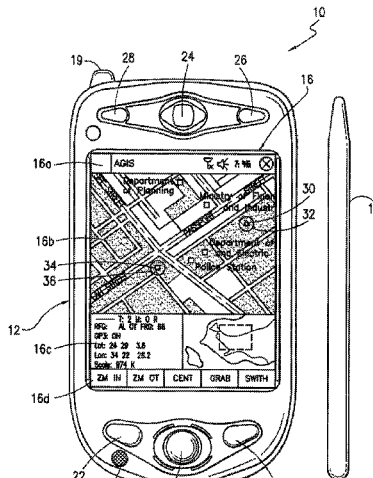
(51) **Int. Cl.**
H04M 11/04 (2006.01)
H04W 24/00 (2009.01)
 (Continued)

(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.

(52) **U.S. Cl.**
 CPC **H04W 4/22** (2013.01); **G06F 3/0482** (2013.01); **G06F 3/04842** (2013.01);
 (Continued)

(58) **Field of Classification Search**
 CPC H04W 4/02

84 Claims, 7 Drawing Sheets



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

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H04W 4/10 (2009.01)
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(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.

6,868,337 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 H04W 4/14
 455/456.1
 7,031,700 B1 4/2006 Weaver et al.
 7,292,935 B2 11/2007 Yoon
 7,299,075 B2 11/2007 Gottlieb et al.
 7,330,112 B1 2/2008 Emigh et al.
 7,421,270 B2* 9/2008 Serafat H04W 8/22
 455/419
 7,486,648 B1 2/2009 Baranowski
 7,499,799 B2 3/2009 Park
 7,593,740 B2* 9/2009 Crowley et al. 455/456.3
 8,014,763 B2 9/2011 Hymes
 8,139,514 B2 3/2012 Weber et al.
 2001/0044321 A1 11/2001 Ausems et al.
 2003/0013461 A1 1/2003 Mizune et al.
 2003/0093405 A1* 5/2003 Mayer 707/1
 2003/0139150 A1 7/2003 Rodriguez et al.
 2003/0149527 A1 8/2003 Sikila
 2003/0200259 A1 10/2003 Tsuge
 2004/0054428 A1* 3/2004 Sheha G01C 21/20
 700/56
 2004/0137884 A1 7/2004 Engstrom et al.
 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. 342/357.08
 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 H04W 76/005
 455/456.1
 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 A1 6/2008 Spalink et al.
 2010/0052945 A1 3/2010 Breed

FOREIGN PATENT DOCUMENTS

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

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

US 9,467,838 B2

Page 3

(56)

References Cited

OTHER PUBLICATIONS

The LocationNet 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 Univeritet, 2001.

Garmin rino 110 2-way Radio & Personal Navigator; Owner's Manual and Reference Guide; Apr. 2003; 88pgs.

Int'l Preliminary Report on Patentability (IPRP); for Int'l Patent App. No. PCT/JP2004/000250 dated Jul. 5, 2005; 4pgs.

Life360's Rule 50(a) Motion for Judgment as a Matter of Law; *Agis, Inc. v. Life360, Inc.* (S.D. FL.); Mar. 12, 2015; 27pgs.

Plaintiff Advanced Ground Information Systems, Inc.'s Motions in Limine; *Agis, Inc. v. Life360, Inc.* (S.D. FL.); Feb. 19, 2015; 54pgs. PRNewswire, "Trimble GPS Technology Enables Seiko Epson Communication Device and Wireless Data Service," Nov. 8, 1999, accessed on the internet at: <http://www.prnewswire.com/news-releases/trimble-gps-technology-enables-seiko-epson-communication-device-and-wireless-data-service-77056402.html>; downloaded Jun. 16, 2016; 4pgs.

U.S. Appl. No. 14/695,233, filed Apr. 24, 2015, Method to Provide Ad Hoc and Password Protected Digital and Voice Networks, Malcolm K. Beyer.

U.S. Appl. No. 14/633,804, filed Feb. 27, 2015, Method to Provide Ad Hoc and Password Protected Digital and Voice Networks, Malcolm K. Beyer, et al.

U.S. Appl. No. 14/633,764, filed Feb. 27, 2015, Method to Provide Ad Hoc and Password Protected Digital and Voice Networks, Malcolm K. Beyer, et al.

* cited by examiner

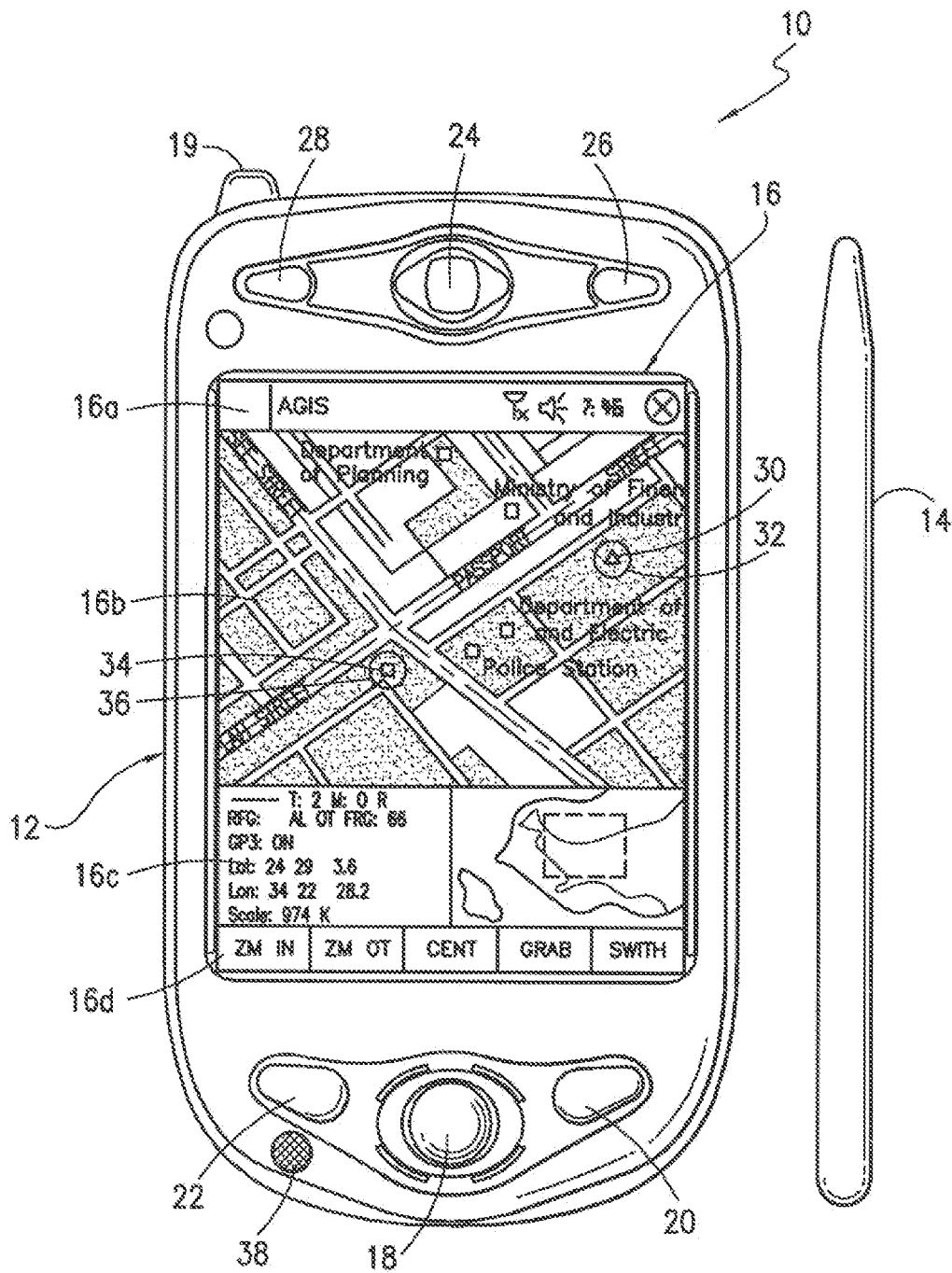


FIG. 1

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