EXHIBIT 17



(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)

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

(Continued)

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

(52) U.S. Cl.

.... H04W 4/22 (2013.01); G06F 3/0482 (2013.01); G06F 3/04842 (2013.01); H04L 63/083 (2013.01); H04L 67/18 (2013.01); H04M 1/72519 (2013.01); H04M 1/72536 (2013.01); H04M 1/72572 (2013.01);

(Continued)

US 9,408,055 B2 (10) Patent No.: (45) Date of Patent: Aug. 2, 2016

(58) Field of Classification Search CPC H04W 4/02 See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

5.555.286 A 9/1996 Tendler 4/1999 Small et al. 5,898,434 A (Continued)

FOREIGN PATENT DOCUMENTS

H085394 1/1996 H09113288 5/1997 (Continued)

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

OTHER PUBLICATIONS

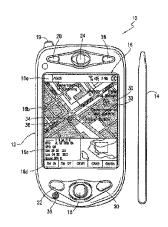
(Continued)

Primary Examiner — Omoniyi Obayanju (74) Attorney, Agent, or Firm — Goodwin Procter LLP

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





US 9,408,055 B2

Page 2

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.

(51)	Int. Cl.	
	H04W 4/22	(2009.01)
	H04W 76/00	(2009.01)
	II04M 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)
	II04W 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)
	II04W 4/10	(2009.01)
	H04M 1/2745	(2006.01)

(52) U.S. Cl.

CPC II04M 1/72583 (2013.01); II04W 4/02 (2013.01); H04W 4/021 (2013.01); H04W 4/023 (2013.01); H04W 4/027 (2013.01); H04W 4/08 (2013.01); H04W 12/02 (2013.01); H04W 12/08 (2013.01); H04W 64/00 (2013.01); H04W 68/00 (2013.01); H04W 76/007 (2013.01); H04W 84/18 (2013.01); II04M 1/27455 (2013.01); II04M 1/72525 (2013.01); H04M 1/72547 (2013.01); H04M 2250/10 (2013.01); H04M 2250/22 (2013.01); H04M 2250/62 (2013.01); H04W 4/026 (2013.01); H04W 4/10 (2013.01); H04W 76/005 (2013.01); H04W 76/021 (2013.01)

(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 Bl	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 Bl	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.
7,031,700 B1	4/2006	Weaver et al.
7,292,935 B2	11/2007	Yoon

7,299,075 B2	11/2007	Crottlieb 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 B2		Hymes H04M 1/26
0,017,705 112	2/2011	455/414.2
8,139,514 B2	3/2012	Weber et al.
2001/0044321 A1	11/2001	Ausems et al.
2003/0013461 Δ1		Mizune et al.
2003/0093405 A1		Mayer
2003/0139150 A1		Rodriguez et al.
2003/0149527 A1	8/2003	Sikila
2003/0200259 A1		Tsuge
2004/0054428 A1	3/2004	Sheha et al.
2004/0137884 A1	* 7/2004	Engstrom H04L 12/586
		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 Λ1	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 A1	6/2008	Spalink et al.
2010/0052945 A1	* 3/2010	Breed B60N 2/2863
		340/903

FOREIGN PATENT DOCUMENTS

JР	2000/357296	12/2000
JР	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,

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

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 Univeriet, 2001.
Benefon ESC! GSM + GPS Personal Navigation Phone, 1999,

Benefon Oyj, Salo, Finland.



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).

Lifc360's Rule 50(a) Motion for Judgment as a Matter of Law, AGIS, Inc. v. Life360, Inc. (S.D. F.L.), dated Mar. 12, 2015 (27 pages). Plaintiff Advanced Ground Information Systems, Inc.'s Motions in Limine, AGIS, Inc. v. Life360, Inc. (S.D. F.T.), dated I'eb. 19, 2015 (54 pages).

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 Sheet 1 of 7 US 9,408,055 B2

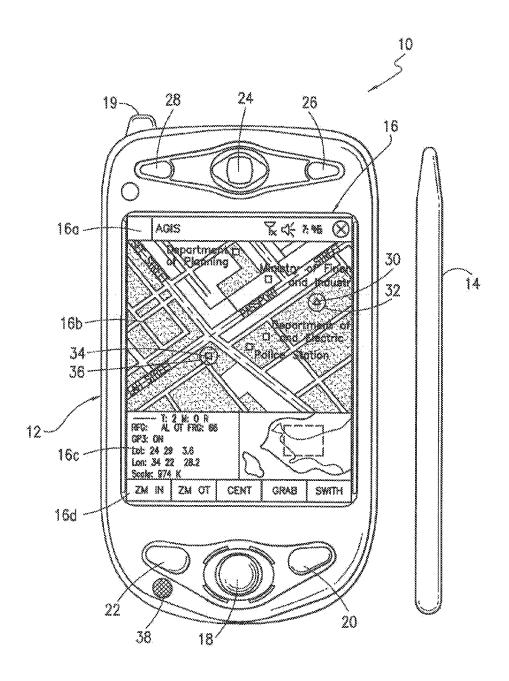


FIG. 1

DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

