

Exhibit 1



US010341838B2

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

(10) **Patent No.:** **US 10,341,838 B2**
(45) **Date of Patent:** ***Jul. 2, 2019**

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

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

(71) Applicant: **AGIS Software Development LLC,**
Marshall, TX (US)

(56) **References Cited**

U.S. PATENT DOCUMENTS

(72) Inventors: **Malcolm K. Beyer, Jr.,** Jupiter, FL
(US); **Christopher R. Rice,** Redmond,
WA (US)

5,325,310 A 6/1994 Johnson et al.
5,555,286 A 9/1996 Tendler
(Continued)

(73) Assignee: **AGIS Software Development LLC,**
Marshall, TX (US)

FOREIGN PATENT DOCUMENTS

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

EP 1148754 A2 10/2001
EP 1655888 A1 5/2006
(Continued)

This patent is subject to a terminal disclaimer.

OTHER PUBLICATIONS

U.S. Appl. No. 15/722,660, Method to Provide Ad Hoc and Password Protected Digital and Voice Networks, filed Oct. 2, 2017.

(21) Appl. No.: **15/809,102**

(Continued)

(22) Filed: **Nov. 10, 2017**

Primary Examiner — Omoniyi Obayanju

(65) **Prior Publication Data**

(74) *Attorney, Agent, or Firm* — Goodwin Procter LLP

US 2018/0152556 A1 May 31, 2018

(57) **ABSTRACT**

Related U.S. Application Data

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.

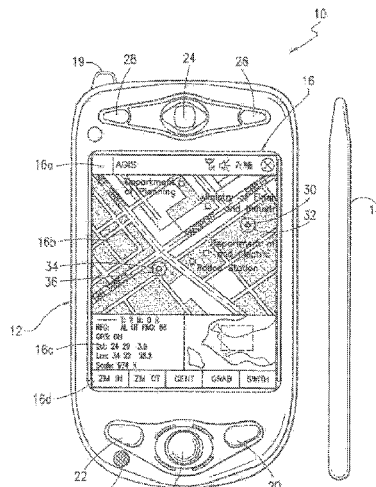
(63) Continuation of application No. 15/722,660, filed on Oct. 2, 2017, now Pat. No. 10,299,100, which is a (Continued)

(51) **Int. Cl.**
H04W 4/00 (2018.01)
H04W 4/90 (2018.01)

(Continued)

(52) **U.S. Cl.**
CPC **H04W 4/90** (2018.02); **G01S 19/17** (2013.01); **G06F 3/0482** (2013.01);
(Continued)

26 Claims, 7 Drawing Sheets



Related U.S. Application Data

continuation of application No. 15/469,469, filed on Mar. 24, 2017, now Pat. No. 10,292,033, which is a continuation of application No. 15/287,638, filed on Oct. 6, 2016, now Pat. No. 9,706,381, which is a continuation of application No. 14/529,978, filed on Oct. 31, 2014, now Pat. No. 9,467,838, 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 application No. 13/751,453, filed on Jan. 28, 2013, now Pat. No. 8,538,393, which is a 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.

- (51) **Int. Cl.**
 - H04M 1/725* (2006.01)
 - H04W 68/00* (2009.01)
 - H04W 4/02* (2018.01)
 - H04W 76/50* (2018.01)
 - H04W 76/11* (2018.01)
 - H04M 1/2745* (2006.01)
 - 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 4/021* (2018.01)
 - H04L 29/12* (2006.01)
 - H04M 7/00* (2006.01)
 - H04W 12/06* (2009.01)
 - H04W 68/04* (2009.01)
 - G01S 19/17* (2010.01)
 - H04M 3/56* (2006.01)
 - H04W 4/14* (2009.01)
 - H04W 76/15* (2018.01)
 - H04W 4/10* (2009.01)
 - H04W 76/45* (2018.01)
 - H04W 12/04* (2009.01)
 - H04W 84/04* (2009.01)

- (52) **U.S. Cl.**
 - CPC *G06F 3/0484* (2013.01); *H04L 61/605* (2013.01); *H04L 63/065* (2013.01); *H04L 63/083* (2013.01); *H04L 63/104* (2013.01); *H04L 67/18* (2013.01); *H04M 1/27455* (2013.01); *H04M 1/72519* (2013.01); *H04M 1/72536* (2013.01); *H04M 1/72547* (2013.01); *H04M 1/72572* (2013.01); *H04M 1/72583* (2013.01); *H04M 3/56* (2013.01); *H04M 7/006* (2013.01); *H04W 4/02* (2013.01); *H04W 4/021* (2013.01); *H04W 4/023* (2013.01); *H04W 4/026* (2013.01); *H04W 4/027* (2013.01); *H04W 4/08* (2013.01);

12/08 (2013.01); *H04W 64/00* (2013.01); *H04W 68/00* (2013.01); *H04W 68/04* (2013.01); *H04W 76/11* (2018.02); *H04W 76/15* (2018.02); *H04W 76/50* (2018.02); *H04W 84/18* (2013.01); *H04L 61/2007* (2013.01); *H04M 1/72525* (2013.01); *H04M 2250/10* (2013.01); *H04M 2250/22* (2013.01); *H04M 2250/62* (2013.01); *H04W 4/10* (2013.01); *H04W 12/04* (2013.01); *H04W 76/45* (2018.02); *H04W 84/042* (2013.01)

(56)

References Cited

U.S. PATENT DOCUMENTS

5,563,931	A	10/1996	Bishop et al.
5,692,032	A	11/1997	Seppanen
5,742,905	A	4/1998	Pepe et al.
5,764,898	A	6/1998	Tsuji et al.
5,898,434	A	4/1999	Small et al.
6,104,704	A	8/2000	Buhler et al.
6,108,704	A	8/2000	Hutton
6,119,017	A	9/2000	Cassidy et al.
6,128,291	A	10/2000	Perlman et al.
6,182,114	B1	1/2001	Yap et al.
6,204,844	B1	3/2001	Fumarolo et al.
6,232,971	B1	5/2001	Haynes
6,271,835	B1	8/2001	Hoeksma
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.
6,459,440	B1	10/2002	Monnes et al.
6,477,387	B1	11/2002	Jackson et al.
6,487,595	B1	11/2002	Turunen et al.
6,490,521	B2	12/2002	Wiener
6,504,503	B1	1/2003	Saint Hilaire et al.
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
6,654,683	B2	11/2003	Jin et al.
6,661,353	B1	12/2003	Gopen
6,662,016	B1	12/2003	Buckham et al.
6,665,293	B2	12/2003	Thornton et al.
6,697,734	B1	2/2004	Suomela
6,700,589	B1	3/2004	Canelones et al.
6,704,303	B1	3/2004	Bowman-Amuah
6,716,101	B1	4/2004	Meadows et al.
6,772,142	B1	8/2004	Kelling et al.
6,775,560	B2	8/2004	King et al.
6,816,878	B1	11/2004	Zimmers et al.
6,854,007	B1	2/2005	Hammond
6,867,733	B2	3/2005	Sandhu 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.
6,941,127	B2	9/2005	Muramatsu
7,002,952	B2	2/2006	Jones
7,024,207	B2	4/2006	Gorday et al.
7,031,700	B1	4/2006	Weaver et al.
7,031,728	B2	4/2006	Beyer, Jr.
7,039,040	B1	5/2006	Burg
7,103,333	B2	9/2006	Lazaridis et al.
7,158,878	B2	1/2007	Rasmussen et al.
7,194,083	B1	3/2007	Tischer et al.
7,219,303	B2	5/2007	Fish
7,271,742	B2*	9/2007	Sheha G01C 21/3664 340/995.19
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.
7,353,034	B2	4/2008	Haney
7,386,589	B1	6/2008	Tanumihardja et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

7,426,202 B2 9/2008 Warriar et al.
 7,450,003 B2 11/2008 Weber et al.
 7,454,233 B2 11/2008 Lu et al.
 7,474,627 B2 1/2009 Chheda et al.
 7,486,648 B1 2/2009 Baranowski
 7,499,799 B2 3/2009 Park
 7,574,353 B2 8/2009 Trombetta et al.
 7,593,740 B2 9/2009 Crowley et al.
 7,609,669 B2 10/2009 Sweeney et al.
 7,619,584 B2 11/2009 Wolf
 7,630,724 B2 12/2009 Beyer, Jr. et al.
 7,633,898 B2 12/2009 Jain et al.
 7,672,681 B1 3/2010 Beyer
 7,689,232 B1 3/2010 Beyer
 7,764,954 B2 7/2010 Beyer, Jr.
 7,801,134 B2 9/2010 Hori et al.
 7,801,781 B2 9/2010 Olin et al.
 7,805,146 B1 9/2010 Beyer
 7,848,765 B2 12/2010 Phillips et al.
 7,853,273 B2 12/2010 Beyer
 7,912,913 B2 3/2011 Accapadi et al.
 7,917,866 B1 3/2011 Karam
 8,000,724 B1 8/2011 Rayburn
 8,014,763 B2 9/2011 Hymes
 8,078,164 B2 12/2011 Ganesan
 8,126,441 B2 2/2012 Beyer, Jr.
 8,139,514 B2 3/2012 Weber et al.
 8,213,970 B2 7/2012 Beyer
 8,250,155 B2 8/2012 Corry et al.
 8,300,644 B2 10/2012 Gilbert et al.
 8,364,129 B1 1/2013 Beyer, Jr.
 8,369,843 B2 2/2013 Fux et al.
 8,538,393 B1 9/2013 Beyer, Jr. et al.
 8,549,285 B2 10/2013 Fink et al.
 RE44,716 E 1/2014 Vaziri et al.
 8,713,302 B1 4/2014 Kirchhoff
 8,731,158 B2 5/2014 Donovan
 8,781,089 B2 7/2014 Gilboa et al.
 8,792,479 B2 7/2014 Bender et al.
 8,880,042 B1 11/2014 Beyer, Jr. et al.
 8,982,876 B2 3/2015 Kundaje et al.
 9,019,946 B1 4/2015 Rao et al.
 9,408,055 B2 8/2016 Beyer, Jr.
 9,445,251 B2 9/2016 Beyer, Jr. et al.
 9,467,838 B2 10/2016 Beyer, Jr. et al.
 9,544,271 B2 1/2017 McFarland et al.
 9,706,381 B2 7/2017 Beyer, Jr. et al.
 9,749,829 B2 8/2017 Beyer, Jr. et al.
 9,820,123 B2 11/2017 Beyer, Jr. et al.
 2001/0026609 A1 10/2001 Weinstein et al.
 2001/0044321 A1 11/2001 Ausems et al.
 2002/0027901 A1 3/2002 Liu et al.
 2002/0061762 A1 5/2002 Maggenti et al.
 2002/0064147 A1 5/2002 Jonas et al.
 2002/0115450 A1 8/2002 Muramatsu
 2002/0115453 A1 8/2002 Poulin et al.
 2002/0135615 A1 9/2002 Lang
 2002/0173906 A1 11/2002 Muramatsu
 2002/0194378 A1 12/2002 Foti
 2003/0013461 A1 1/2003 Mizune et al.
 2003/0081011 A1 5/2003 Sheldon et al.
 2003/0093405 A1 5/2003 Mayer
 2003/0100326 A1 5/2003 Grube et al.
 2003/0103072 A1 6/2003 Ko
 2003/0103088 A1 6/2003 Dresti et al.
 2003/0114171 A1* 6/2003 Miyamoto H04W 4/02
 455/456.1
 2003/0128195 A1 7/2003 Banerjee et al.
 2003/0139150 A1 7/2003 Rodriguez et al.
 2003/0149527 A1 8/2003 Sikila
 2003/0200259 A1 10/2003 Tsuge
 2003/0217109 A1 11/2003 Ordille et al.
 2003/0224762 A1 12/2003 Lau et al.

2004/0054428 A1 3/2004 Sheha et al.
 2004/0137884 A1 7/2004 Engstrom et al.
 2004/0143391 A1 7/2004 King et al.
 2004/0148090 A1* 7/2004 Melen G01C 21/26
 701/482
 2004/0157590 A1 8/2004 Lazaridis et al.
 2004/0192299 A1 9/2004 Wilson et al.
 2004/0204070 A1 10/2004 August et al.
 2004/0213215 A1 10/2004 Kakiuchi
 2004/0243710 A1 12/2004 Mao
 2004/0252050 A1 12/2004 Tengler et al.
 2004/0266456 A1 12/2004 Bostrom et al.
 2005/0027705 A1 2/2005 Sadri et al.
 2005/0030977 A1 2/2005 Casey et al.
 2005/0060069 A1 3/2005 Breed et al.
 2005/0113123 A1 5/2005 Torvinen
 2005/0130634 A1 6/2005 Godfrey
 2005/0130666 A1 6/2005 Levy et al.
 2005/0221876 A1 10/2005 Van Bosch et al.
 2005/0227705 A1 10/2005 Rousu et al.
 2005/0246419 A1 11/2005 Jaatinen
 2005/0265256 A1 12/2005 Delaney
 2005/0270311 A1 12/2005 Rasmussen et al.
 2006/0015407 A1 1/2006 Bernard et al.
 2006/0030339 A1 2/2006 Zhovnirovsky et al.
 2006/0031927 A1 2/2006 Mizuno et al.
 2006/0035647 A1 2/2006 Eisner et al.
 2006/0039353 A1 2/2006 Samuel et al.
 2006/0047825 A1 3/2006 Steenstra et al.
 2006/0155871 A1 7/2006 Ilkka et al.
 2006/0178128 A1 8/2006 Eaton
 2006/0218232 A1 9/2006 Kubala et al.
 2007/0047707 A1 3/2007 Mayer et al.
 2007/0081649 A1 4/2007 Baudino
 2007/0150444 A1 6/2007 Chesnais et al.
 2007/0153986 A1 7/2007 Bloebaum et al.
 2007/0178912 A1 8/2007 Baranowski
 2007/0200713 A1 8/2007 Weber et al.
 2007/0218885 A1 9/2007 Pflieger et al.
 2007/0281689 A1 12/2007 Altman et al.
 2007/0281690 A1 12/2007 Altman et al.
 2008/0132243 A1 6/2008 Spalink et al.
 2008/0219416 A1 9/2008 Roujinsky
 2008/0304460 A1 12/2008 Thermond
 2010/0052945 A1 3/2010 Breed
 2010/0125636 A1 5/2010 Kuhlke et al.
 2011/0053554 A1 3/2011 Wong et al.
 2012/0008526 A1 1/2012 Borghei
 2013/0183949 A1 7/2013 Sulmar
 2015/0067055 A1 3/2015 Khera et al.
 2015/0264167 A1 9/2015 Beyer, Jr. et al.
 2015/0319789 A1 11/2015 Beyer, Jr. et al.
 2016/0021522 A1 1/2016 Beyer, Jr. et al.
 2016/0057598 A1 2/2016 Beyer, Jr. et al.
 2017/0026815 A1 1/2017 Beyer, Jr. et al.
 2017/0201621 A1 7/2017 Beyer, Jr. et al.
 2017/0238158 A1 8/2017 Beyer, Jr. et al.
 2018/0027111 A1 1/2018 Beyer, Jr. et al.
 2018/0152556 A1 5/2018 Beyer, Jr. et al.

FOREIGN PATENT DOCUMENTS

EP 1874021 A1 1/2008
 EP 2348423 A2 7/2011
 JP H04 358448 A 12/1992
 JP H05 303335 A 11/1993
 JP H08-5394 A 1/1996
 JP H09-113288 A 5/1997
 JP 2000-357296 A 12/2000
 JP 2002077372 A 3/2002
 JP 2002-245336 A 8/2002
 JP 2002-277256 A 9/2002
 JP 2003139546 A 5/2003
 JP 2003230172 A 8/2003
 JP 2003264861 9/2003
 JP 2007532560 A 11/2007
 WO WO-2002/17567 A2 2/2002

(56)

References Cited

FOREIGN PATENT DOCUMENTS

WO	WO-03/074973	A2	9/2003
WO	WO-2003/096660	A1	11/2003
WO	WO-2008/030702	A2	3/2008
WO	WO-2008027891	A2	3/2008
WO	WO-2008/118878	A2	10/2008

OTHER PUBLICATIONS

U.S. Appl. No. 15/469,469, Method to Provide Ad Hoc and Password Protected Digital and Voice Networks, filed Mar. 24, 2017.

U.S. Appl. No. 15/255,046, Method to Provide Ad Hoc and Password Protected Digital and Voice Networks, filed Sep. 1, 2016.

Batayneh, Fahd A., Location Management in Wireless Data Networks. Apr. 21, 2006, 24pgs. Available on the Internet at https://www.cse.wustl.edu/~jain/cse574-06/ftp/wireless_location/index.html.

Ramjee, et al. IP-Based Access Network Infrastructure for Next-Generation Wireless Data Networks. IEEE Personal Communications, Aug. 2000. 8 pgs.

Toppila, Pekka. TCP/IP in Cellular Mobile Environment. 1999, 7pgs.

IBM, Transmission Control Protocol / Internet Protocol. 2pgs. Available on the Internet at www.ibm.com/support/knowledgecenter/en/ssw_aix_61/com.ibm.aix.networkcomm/tcpip_intro.htm.

Microsoft Corporation. Communication Services and Networking (Windows CE 5.0). 2006, 6pgs. Available on the Internet at <https://msdn.microsoft.com/en-us/library/ms880996.aspx>.

Zetter, Kim. How Attackers Can Use Radio Signals and Mobile Phones to Steal Protected Data. WIRED, Nov. 3, 2004. 5pgs. Available on the Internet at www.wired.com/2014/11/airhopperhack/.

Kutscher, Dirk et al. Drive-thru Internet: IEEE 802.11b for "Automobile" Users. IEEE Infocom, Mar. 7, 2004. 12pgs.

DIGI, Remote Cellular TCP/IP to Rockwell Ethernet and Serial Devices. 37pgs.

Batista, E., "Your Boss May Know Where You Are," Wired News, May 31, 2002; 2pgs.

Benefon ESC! GSM + GPS Personal Navigation Phone, 1999, Benefon Oyj, Salo, Finland; 4pgs.

Edlund, T. and Ciber, S., "Mobile Services for Truck Drivers," Master Thesis in Mobile Informatics, IT University of Goleborg, Sweden; 2003; 50pgs.

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

Gate5, "Mobile Community Solution: Context-sensitive Application Suite for Mobile Communities," 2002; 3pgs.

Gate5, "Mobile Guide Solution: Context-sensitive Applications for PDA-based Mobile City and Travel Guides," 2002; 4pgs.

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

Kim, R., "Find Friends by Cell Phone/Loop! Application's GPS Program Can Beam Map Location," SFGate; Nov. 14, 2006; 2pgs.

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.

LocatioNet LBS Applications: MyMap description web page, published before 2004 upon information and belief; 13pgs.

LocatioNet Press Release: "LocatioNet Releases Ground Breaking Mass Market LBS Application Suite—LocatioNet MyMap," Mobile Location Services Congress; May 6, 2003; 2pgs.

Luna, L., "This Man Knows You Live . . . and Work and Play," Wireless Review; Sep. 1, 2002; pp. 24-32.

Meggers, J. And Sang-Bum Parl, A., "A Multimedia Communication Architecture for Handheld Devices," IEEE Paper 0-7803-4872-9/98, Sep. 8-11, 1998; pp. 1245-1249.

Memory Map Remote Tracking, available on the Internet at <https://web.archive.org/web/20060202161013/http://memory-map.com/>; 2pgs.

PRNewswire, "Trimble GPS Technology Enables Seiko Epson; Communication Device and Wireless Data Service," accessed on the internet at: <http://www.printhis.clickability.com/pt/cpt?expire=&title=Trimble+GPS+Technology+Enables+Seiko+Epson+Communication+Device+and+Wireless+Data+S...>; downloaded Jun. 16, 2016; 4pgs.;

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.

The LocatioNet 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 2003; 6pgs.

Östman, L., "A Study of Location-Based Services Including a Design and Implementation of an Enhanced Friend Finder Client with Mapping Capabilities," Lulea Tekniska Univeritet; Aug. 31, 2001; 63pgs.

"911 and E911 Services," Federal Communications Commission, updated Mar. 1, 2018, available at <https://www.fcc.gov/general/9-1-1-and-e9-1-1-services> (last visited May 7, 2018) (6 pages).

"AGIS Introduces Landmark Mobile Networking," dated Jun. 18, 2007, available as of Aug. 7, 2007 according to Wayback Machine Internet Archive Record, obtained from: https://web.archive.org/web/20070807202449/http://www.agisinc.com/AGIS_announcement.pdf (3 pages).

"AGIS Mobile Communication & Collaboration Software Being Used by Naval Coastal Warfare Squadron," available as of Aug. 7, 2007 according to Wayback Machine Internet Archive Record, obtained from: https://web.archive.org/web/20070807202431/http://www.agisinc.com/AGIS_US_Navy_photofeature.pdf (2 pages).

"BuddySpace Downloads," dated May 1, 2007, publication date unknown, available at: <http://projects.kmi.open.ac.uk/buddyspace/downloads/downloads.html> (3 pages).

"Cellular Mobile Pricing Structures and Trends," Organisation for Economic Co-operation and Development, Working Party on Telecommunications and Information Service Policies, May 16, 2000 (103 pages).

"Email," Wikipedia, <https://en.wikipedia.org/wiki/Email> (last visited May 10, 2018) (19 pages).

"Fact Sheet: FCC Wireless 911 Requirements," Federal Communications Commission, Jan. 2001, available at https://transition.fcc.gov/pshs/services/911-services/enhanced911/archives/factsheet_requirements_012001.pdf (4 pages).

"Force XXI Battle Command, Brigade and Below (FBCB2)," available as of Feb. 4, 2017 according to Wayback Machine Internet Archive Record, obtained from: <https://web.archive.org/web/20170204113146/http://www.dote.osd.mil/pub/reports/FY1999/pdf/army/99fbc2.pdf> (4 pages).

"Frequently Asked Questions," BuddySpace.org, available as of Apr. 23, 2007 according to Wayback Machine Internet Archive Record, obtained from: <https://web.archive.org/web/20070423184018/http://kmi.open.ac.uk:80/projects/buddyspace/faq.html> (11 pages).

"Frequently Asked Questions," BuddySpace.org, available as of Feb. 3, 2004 according to Wayback Machine Internet Archive Record, obtained from: <https://web.archive.org/web/20040204032758/http://kmi.open.ac.uk:80/projects/buddyspace/faq.html> (4 pages).

"History of Mobile Phones," Wikipedia, https://en.wikipedia.org/wiki/History_of_Mobile_phones (last visited May 10, 2018) (14 pages).

"How It Works: The Navizon Wireless Positioning System," Navizon.com, available as of Feb. 19, 2006 according to Wayback Machine Internet Archive Record, obtained from: <https://web.archive.org/web/20060219075647/http://www.navizon.com:80/FullFeatures.htm> (8 pages).

"Introduction & Philosophy: Presence in a Nutshell," publication date unknown, available at: <http://projects.kmi.open.ac.uk/buddyspace/intro-philosophy.html> (3 pages).

"mMode Features: Find Friends," AT&T Wireless, available as of Jun. 18, 2003 according to Wayback Machine Internet Archive Record, obtained from: <https://web.archive.org/20030618175223/>

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.