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(12) **United States Patent**
Adelson

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(54) **MACHINE OR GROUP OF MACHINES FOR MONITORING LOCATION OF A VEHICLE OR FREIGHT CARRIED BY A VEHICLE**

(58) **Field of Classification Search**
CPC G06Q 10/0833; G08G 1/20; G08G 1/205
USPC 340/988-994; 348/116
See application file for complete search history.

(71) Applicant: **MacroPoint LLC**, Cleveland, OH (US)

(56) **References Cited**

(72) Inventor: **Bennett H. Adelson**, Highland Heights, OH (US)

U.S. PATENT DOCUMENTS

(73) Assignee: **MacroPoint LLP**, Cleveland, OH (US)

5,208,756	A	5/1993	Song
5,218,367	A	6/1993	Sheffer
5,774,876	A	6/1998	Woolley
5,794,174	A	8/1998	Janky
5,880,958	A	3/1999	Helms
6,141,609	A	10/2000	Herdeg
6,202,024	B1	3/2001	Yokoyama
6,339,745	B1	1/2002	Novik

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This patent is subject to a terminal disclaimer.

(Continued)

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OTHER PUBLICATIONS

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MacroPoint, LLC. v. FourKites, Inc., 1:15-cv-1002 (N.D. Ohio), FourKites' Motion to Dismiss and Memorandum in Support with Exs. C, E, F, and G; Jul. 31, 2015.

(Continued)

Related U.S. Application Data

(63) Continuation of application No. 14/752,005, filed on Jun. 26, 2015, now abandoned, which is a continuation of application No. 14/661,774, filed on Mar. 18, 2015, now Pat. No. 9,087,313, which is a continuation of application No. 14/069,364, filed on Oct. 31, 2013, now Pat. No. 9,070,295, which is a continuation of application No. 13/613,321, filed on Sep. 13, 2012, now Pat. No. 8,604,943, which is a continuation of application No. 13/429,618, filed on Mar. 26, 2012, now Pat. No. 8,330,626.

Primary Examiner — Mark Rushing

(74) *Attorney, Agent, or Firm* — Renner, Otto, Boisselle & Sklar, LLP

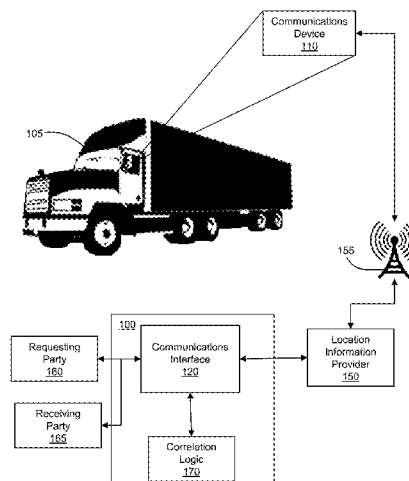
(51) **Int. Cl.**
G08B 21/00 (2006.01)
G01S 19/46 (2010.01)
G01S 19/13 (2010.01)

(57) **ABSTRACT**

A machine or group of machines for monitoring location of at least one of a vehicle or freight carried by the vehicle includes a server comprising a central processing unit, a memory, a clock, and a server communication transceiver that receives location information of a mobile device, the mobile device comprising a GPS receiver, a microprocessor and a wireless communication transceiver coupled to the GPS receiver, the mobile device comprising the GPS receiver programmed to receive data sent by a plurality of GPS satellites, calculate location information of the mobile device comprising the GPS receiver and transmit the location information.

(52) **U.S. Cl.**
CPC **G01S 19/46** (2013.01); **G01S 19/13** (2013.01)

30 Claims, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,442,391	B1	8/2002	Johansson et al.
6,584,403	B2	6/2003	Bunn
6,611,686	B1	8/2003	Smith
6,611,755	B1	8/2003	Coffee
6,718,263	B1	4/2004	Glass
6,892,131	B2	5/2005	Coffee
7,246,009	B2	7/2007	Hamblen
7,366,522	B2	4/2008	Thomas
7,385,499	B2	6/2008	Horton
8,301,158	B1	10/2012	Thomas
8,369,867	B2	2/2013	Van Os
8,649,775	B2	2/2014	Alessio et al.
8,718,672	B2	5/2014	Xie
8,755,823	B2	6/2014	Proietti et al.
2005/0251330	A1	11/2005	Waterhouse
2006/0187027	A1	8/2006	Smith
2008/0132252	A1	6/2008	Altman et al.
2009/0017803	A1	1/2009	Brillhart
2009/0030770	A1	1/2009	Hersh et al.
2009/0143079	A1	6/2009	Klassen
2010/0057593	A1	3/2010	Moir
2010/0228404	A1	9/2010	Link et al.
2011/0001638	A1	1/2011	Pudar
2011/0063138	A1	3/2011	Berkobin et al.
2012/0265433	A1	10/2012	Viola
2013/0124430	A1	5/2013	Moir

OTHER PUBLICATIONS

- MacroPoint, LLC. v. FourKites, Inc.*, 1:15-cv-1002 (N.D. Ohio), MacroPoint's Opposition Memorandum to Motion to Dismiss Exs. 1-8; Sep. 15, 2015.
- MacroPoint, LLC. v. FourKites, Inc.*, 1:15-cv-1002 (N.D. Ohio), FourKites' Reply Memorandum in support of its Motion to Dismiss with Exs. A-N; Sep. 29, 2015.
- MacroPoint, LLC. v. FourKites, Inc.*, 1:15-cv-1002 (N.D. Ohio), MacroPoint's Sur-Reply in Opposition to Motion to Dismiss; Oct. 12, 2015.
- MacroPoint, LLC. v. FourKites, Inc.*, 1:15-cv-1002 (N.D. Ohio), FourKites' Response to MacroPoints Sur-Reply in Opposition to Motion to Dismiss; Oct. 13, 2015.
- MacroPoint, LLC. v. FourKites, Inc.*, 1:15-cv-1002 (N.D. Ohio), Memorandum of Opinion and Order for Motion to Dismiss; Nov. 6, 2015.
- Load Tracking, Proof of Delivery & Document Management Services—uFollowit; 2007-2010.
- uShip—Mobile Apps; undated.
- New Echo Global Logistics Mobile App Puts Supply Chain Visibility at Your Fingertips; Jul. 20, 2011.
- FollowMee GPS Tracker—How To; undated.
- MilesBug 2.1—GPS Full Path Tracking with Map Display; Jun. 11, 2011.
- MoosTrax—iTune Preview; Aug. 17, 2010.
- Android Location Providers—gps, network, passive—Tutorial; NAZMUL; Oct. 20, 2010.
- A Guide to Making Your Android's Battery Last a Little Longer; Lars Aronsson; Aug. 11, 2010.
- uFollowit Announces Compatibility with MicroSoft Mobile 6 Smartphone Software; Jul. 26, 2008.
- Mycartracks—Track your vehicle smarter; undated.
- TechnoCom Collaborates with Abaq.us to Enable Location Enhanced Mobile Device & Resource Management Services; Mar. 15, 2011.
- Keeping the Miles; Jeff Taylor; Nov. 16, 2011.
- MacroPoint, LLC. v. FourKites, Inc.*, 1:15-cv-1002 (N.D. Ohio), FourKites' Initial Invalidity and Unenforceability Contentions; Mark Deming; Oct. 19, 2015.
- MacroPoint, LLC. v. Salebug.com, LLC*, 1:14-cv-00312-JG (N.D. Ohio), Salebug.com's Preliminary Invalidity and Unenforceability Location-enhanced Call Center and IVR Services: Technical Insights About Your Calling Customer's Location; 2009.
- A Mobile Industry: Cell Phones Useful to Stay Connected with Drivers; Diana Britton; Oct. 2009.
- Providing Universal Location Services Using a Wireless E911 Location Network; James M. Zagami, et al.; Apr. 1998.
- Enterprise Location Platform—Sample IVR Privacy Management Script; Apr. 16, 2010.
- Cross Country Automotive Services Introduces Automatic Location Spotting; Sep. 13, 2010.
- Products and Services—LoadMaster; undated.
- CTIA Best Practices and Guidelines for Location-Based Services, Version 2.0; Mar. 23, 2010.
- Privacy Management Demo Script; undated.
- AT&T Offers New Tracking Platform; Aaron Huff; Jan. 4, 2011.
- Fleet Owner—Pay-as-you-go-tracking; Brian Straight; Jan. 6, 2011.
- FollowMee GPS Tracker Frequently Asked Questions; undated.
- TechnoCom Announces Its Ability to Locate Over 360 Million Mobile and Landline Phones Nationwide; Mar. 16, 2011.
- IVR Gives Callers Option to Receive Mobile Marketing Content; Raju Shanbhag; Jun. 14, 2011.
- Mobile Business App: Free uShip App on Android iPhone, WebOS Smartphones Give Truckers 'Push' on the Road; Sep. 22, 2010.
- How to find the location with GSM cells; Boris Landoni; Sep. 18, 2011.
- Abaq.us meets USPS certification for myGeoTracking; Jan. 17, 2012.
- Abaq.us Announces USPS Certification for myGeoTracking Cloud-Based GPS Location Service; Jan. 17, 2012.
- Non-final Office Action of corresponding U.S. Appl. No. 13/409,281, dated May 15, 2012.
- Notice of Allowance of corresponding U.S. Appl. No. 13/409,281, dated Jun. 28, 2012.
- Non-final Office Action of corresponding U.S. Appl. No. 13/613,321, dated Jan. 31, 2013.
- Final Office Action of corresponding U.S. Appl. No. 13/613,321, dated Jul. 1, 2013.
- Notice of Allowance of corresponding U.S. Appl. No. 13/613,321, dated Oct. 4, 2013.
- Non-final Office Action of corresponding U.S. Appl. No. 14/069,364, dated Feb. 12, 2015.
- Notice of Allowance of corresponding U.S. Appl. No. 13/429,618, dated Mar. 26, 2012.
- Notice of Allowance of corresponding U.S. Appl. No. 14/661,774, dated May 27, 2015.
- Hurcom, Stephen; "Tracking to Keep Trucking", www.mapinfo.com; Jun. 27, 2003.
- Britton, Diana; "A Mobile Industry: Cell Phones Useful to Stay Connected With Drivers", www.truckinginfo.com; Oct. 2009.
- Non-final Office Action of corresponding U.S. Appl. No. 14/752,0051, dated Dec. 3, 2015.
- Gaughan, Judge Patricia A.; Memorandum of Opinion and Order; *MacroPoint, LLC v. FourKites, Inc.*; USDC No. Dist. of OH; Case No. 1:15-CV-1002; Nov. 6, 2015; 14 pages.
- Pribisch, Risto; Plaintiff MacroPoint, LLC's Opposition to Defendant FourKites, Inc.'s Motion to Dismiss First Amended Complaint; Sep. 15, 2015; 38 pages.
- Zatkovich, Ivan; Declaration of Ivan Zatkovich in Support of MacroPoint, LLC's Opposition Brief to FourKites, Inc.'s Motion to Dismiss First Amended Complaint (Exhibit 3); Sep. 15, 2015, 113 pages.
- TechnoCom Corporation; Location-enhanced Call Center and IVR Services: Technical Insights About Your Calling Customer's Location; TechnoCom Corporation, 2009; 7 pages.
- Android HaulCom Application Screen Shots and Description, Nov. 30, 2011; 10 pages.
- FollowMee LLC; GPS Location Tracker for iPhone and iPad—

(56)

References Cited

OTHER PUBLICATIONS

uFollowit Application for iOS released Oct. 12, 2009; Description of application and screen shots; 4 pages.
Abaqus Blog; myGeoTracking: Asset Tracking & Monitoring Service; <https://web.archive.org/web/20100819041357http://abacus.typepad.com/>; Feb. 25, 2010; 7 pages.

Tech9 Computer Solutions; MoosTrax Application for iOS released Jul. 29, 2010; Description of application and screen shots; 2 pages.
Izatt International; MileBug—Mileage Log & Expense Tracker for Deduction and application for iOS released May 10, 2011; Description of application and screen shots; 4 pages.

TechnoCom Corporation; Enterprise Location Platform: Sample IVR Privacy Management Script; TechoCom Corporation; Apr. 16, 2010; 15 pages.

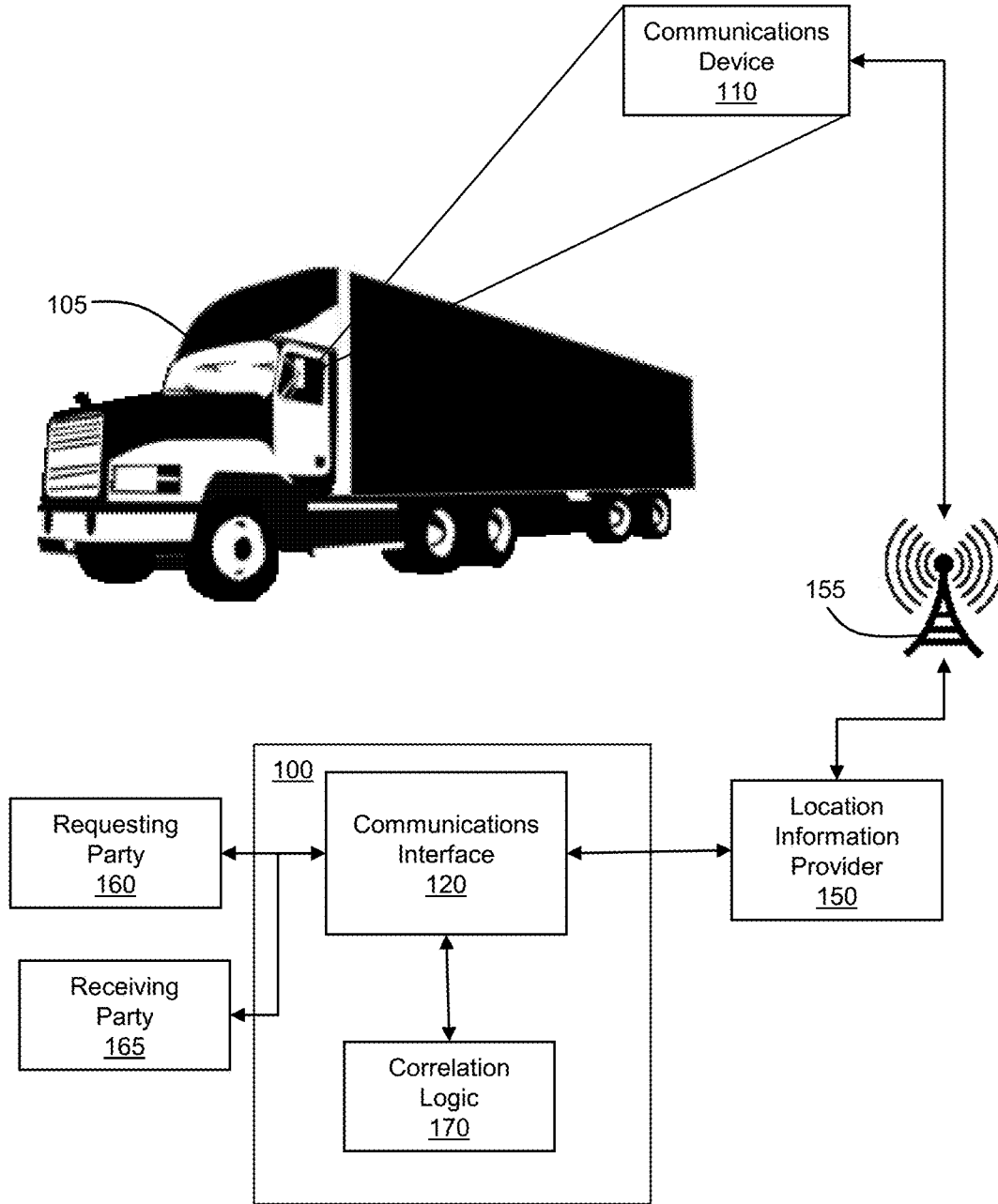


Figure 1

	Active Driver <u>210a</u>	Active Device <u>110a</u>	Backup Driver <u>210b</u>	Backup Device <u>110b</u>	Total Capacity ft ³ / lbs.	Available Capacity ft ³ / lbs.
105b	Gary Fisher	(546) 542-1235			3,931 42,010	2,531 22,010
105d	Colnago Cinelli	(563) 543-5635	Ross Raleigh	(243) 546-5435	2,878 <u>Ref</u> 36,280	2,878 <u>Ref.</u> 36,280
105f	Emilio Bozzi	(507) 543-5475	Murray Schwinn	(548) 243-5433	3,268 41,700	0 0

Figure 2

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