



US007956735B2

(12) **United States Patent**  
**Jackson**

(10) **Patent No.:** **US 7,956,735 B2**  
(45) **Date of Patent:** **Jun. 7, 2011**

(54) **AUTOMATED, REMOTELY-VERIFIED  
ALARM SYSTEM WITH INTRUSION AND  
VIDEO SURVEILLANCE AND DIGITAL  
VIDEO RECORDING**

(75) Inventor: **Randall R. Jackson**, Portland, OR (US)

(73) Assignee: **Cernium Corporation**, Reston, VA (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1013 days.

(21) Appl. No.: **11/803,851**

(22) Filed: **May 15, 2007**

(65) **Prior Publication Data**  
US 2007/0262857 A1 Nov. 15, 2007

(51) **Int. Cl.**  
**G08B 29/00** (2006.01)  
(52) **U.S. Cl.** ..... **340/506; 340/505; 340/539.1;**  
340/539.11; 340/539.25; 340/541; 340/3.1  
(58) **Field of Classification Search** ..... 340/505,  
340/506, 539.1, 539.11, 539.25, 541, 545.1,  
340/545.3, 545.7, 565, 3.1, 825.36, 825.49  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,857,912 A	8/1989	Everett, Jr. et al.
5,486,819 A	1/1996	Horie
5,708,423 A	1/1998	Ghaffari et al.
5,712,830 A	1/1998	Ross et al.
5,801,618 A	9/1998	Jenkins
5,809,161 A	9/1998	Auty et al.
5,875,305 A	2/1999	Winter et al.
5,956,716 A	9/1999	Kenner et al.
6,154,133 A	11/2000	Ross
6,625,383 B1	9/2003	Wakimoto et al.
6,956,599 B2 *	10/2005	Lim et al. .... 348/14.02

6,975,220 B1 *	12/2005	Foodman et al. ....	340/531
7,015,806 B2 *	3/2006	Naidoo et al. ....	340/531
7,203,620 B2	4/2007	Li	
7,209,035 B2 *	4/2007	Tabankin et al. ....	340/539.11
7,262,690 B2 *	8/2007	Heaton et al. ....	340/500
7,342,489 B1 *	3/2008	Milinusic et al. ....	340/506
7,403,116 B2 *	7/2008	Bittner	340/540
7,486,183 B2 *	2/2009	Luebke et al. ....	340/506
7,612,666 B2 *	11/2009	Badawy	340/541

(Continued)

**OTHER PUBLICATIONS**

Website information, MTeye Wireless Video Verification and Remote Viewing Solutions, May 4, 2007, <http://mteye.co.il/home/Index.aspx>.

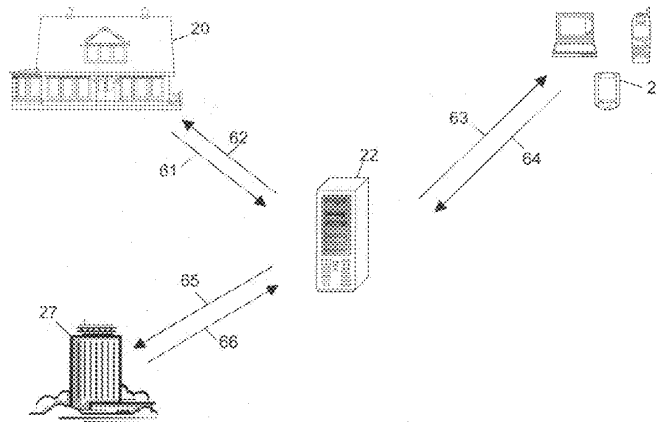
(Continued)

*Primary Examiner* — Daryl Pope

(57) **ABSTRACT**

An automated self-monitored alarm verification solution including at least a premises portion, a server portion, and an end user device portion. Alarm verification includes capturing by an image capture device at least one image in response to a detection event, and transmitting a first data signal including the image to a local signal processing device. The signal processing device transmits a second signal including at least a portion of the image to a remote hosted server according to at least a first set of predetermined parameters. After receiving the second signal, the server transmits a third signal including at least a portion of the image from the hosted server to a user device. Using the user device, a user views the image and indicates a validity status of the alarm based at least in part on the content of the image. Based at least upon either the validation status indicated by the user, or upon a failure to receive a message including a validation status from the user within a predetermined duration of time, the server portion may send an alarm signal to an emergency response service.

**26 Claims, 7 Drawing Sheets**



U.S. PATENT DOCUMENTS

2003/0081836	A1	5/2003	Averbuch et al.
2005/0132414	A1	6/2005	Bentley et al.
2005/0134450	A1	6/2005	Kovach
2006/0167595	A1	7/2006	Breed et al.
2006/0195569	A1	8/2006	Barker
2007/0094716	A1	4/2007	Farino et al.
2007/0177800	A1	8/2007	Connell
2007/0263905	A1	11/2007	Chang et al.
2009/0022362	A1	1/2009	Gagvani et al.
2009/0141939	A1	6/2009	Chambers et al.

OTHER PUBLICATIONS

Website information, Videofied, May 14, 2007, [http://www.videofied.com/en/What\\_is\\_Videofied/](http://www.videofied.com/en/What_is_Videofied/).  
 Website information, The iControl Solution, iControl Networks, May 14, 2007, <http://www.icontrol.com/howWorksMain.jsp>.

Website information, Swann Alert DVR Camera Kit, May 14, 2007, <http://www.costco.com/Browse/Product.aspx?ProdId=11206961&whse=BC&topnav=&browse=>.  
 Website information, Q-See 16 Ch MPEG4 DVR 250 GB HDD with Built-in DVD Burner, May 14, 2007, <http://www.costco.com/Browse/Product.aspx?ProdId=11200471&whse=BC&topnav=&browse=>.  
 International Search Report and Written Opinion for International PCT Application No. PCT/US2008/070134, mailed Oct. 7, 2008, 8 pgs.  
 International Search Report and Written Opinion for International PCT Application No. PCT/US2008/084835, mailed Feb. 4, 2009, 7 pgs.  
 International Search Report and Written Opinion for International PCT Application No. PCT/US10/32013, mailed Jun. 28, 2010, 8 pgs.

\* cited by examiner

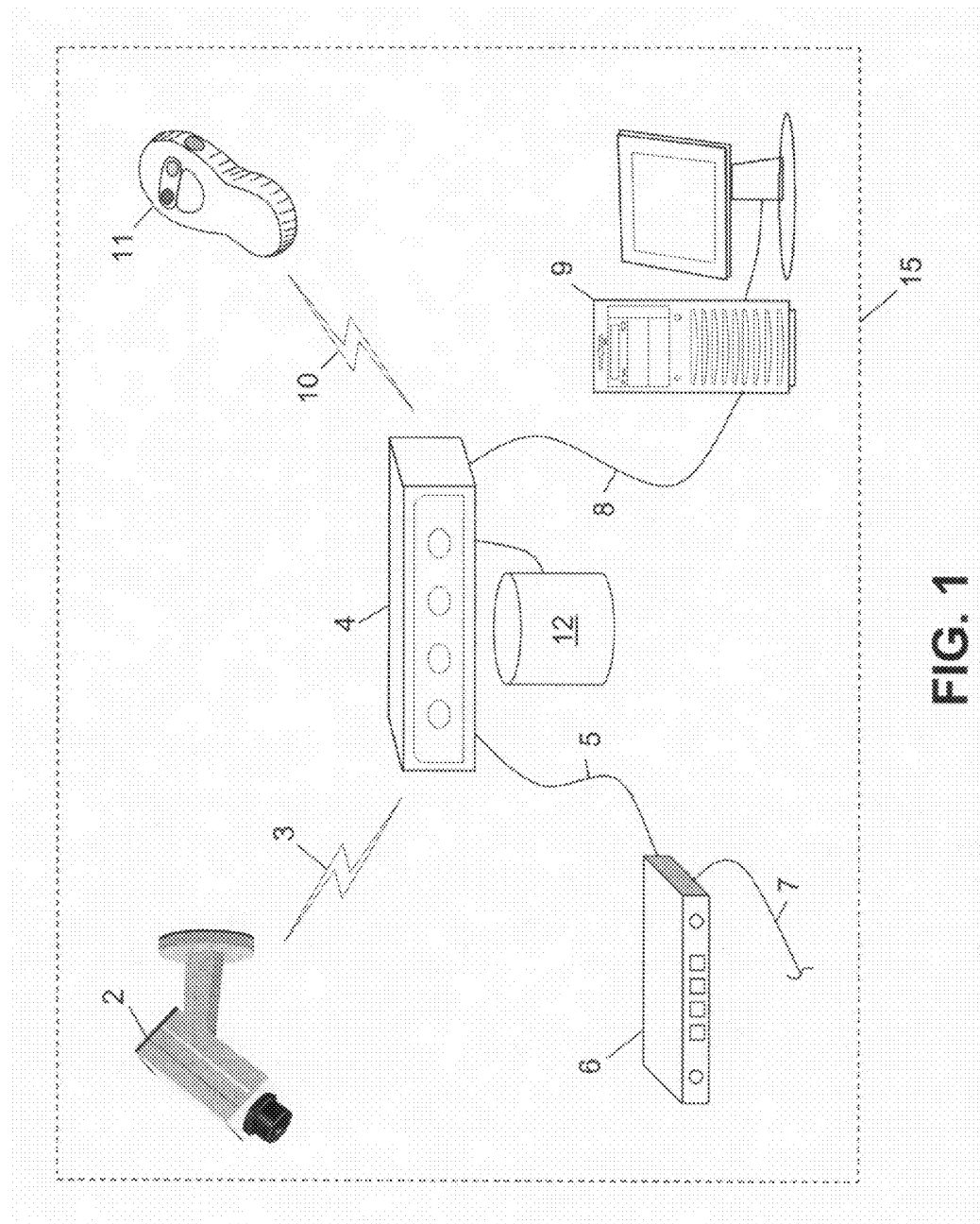


FIG. 1

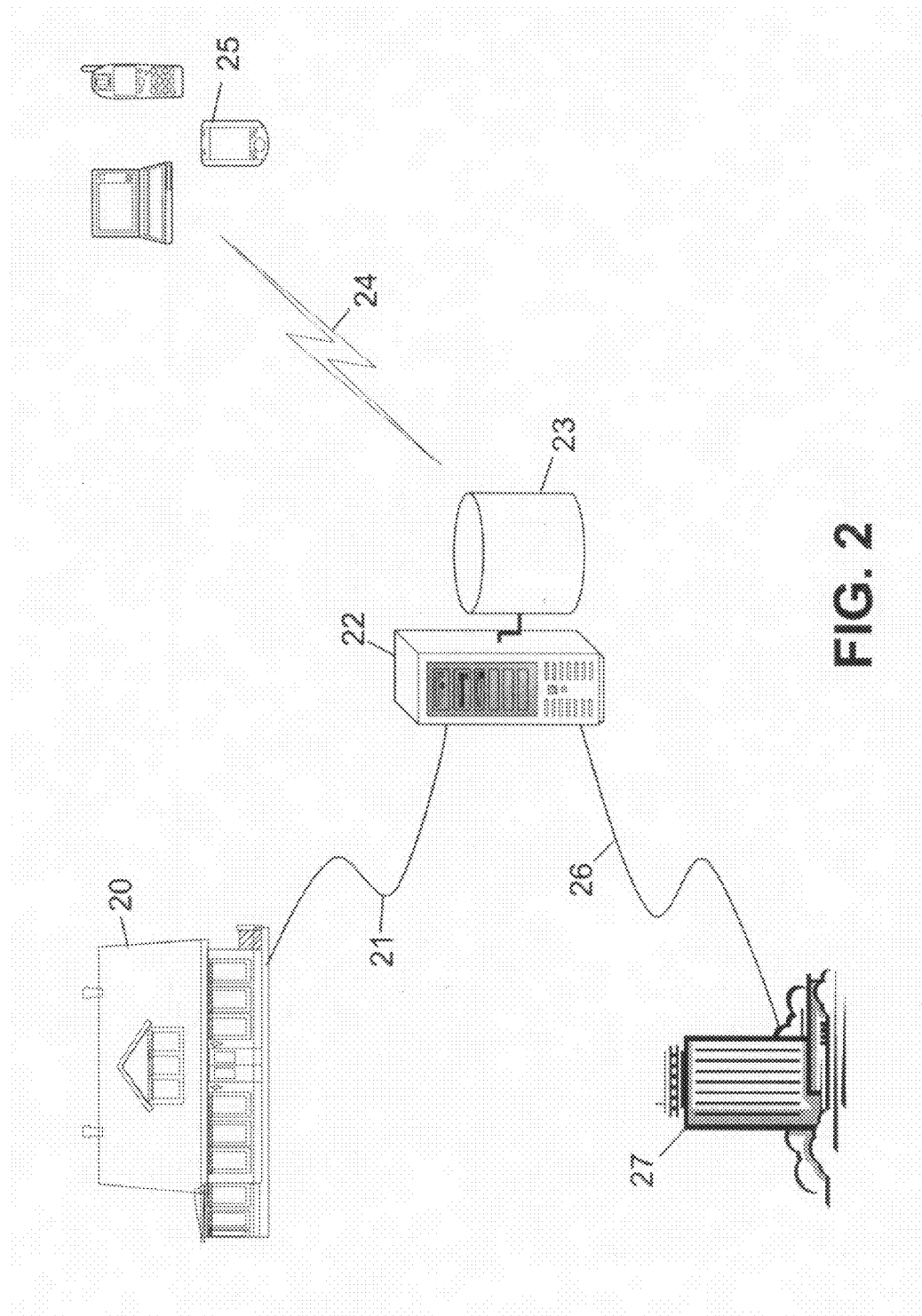
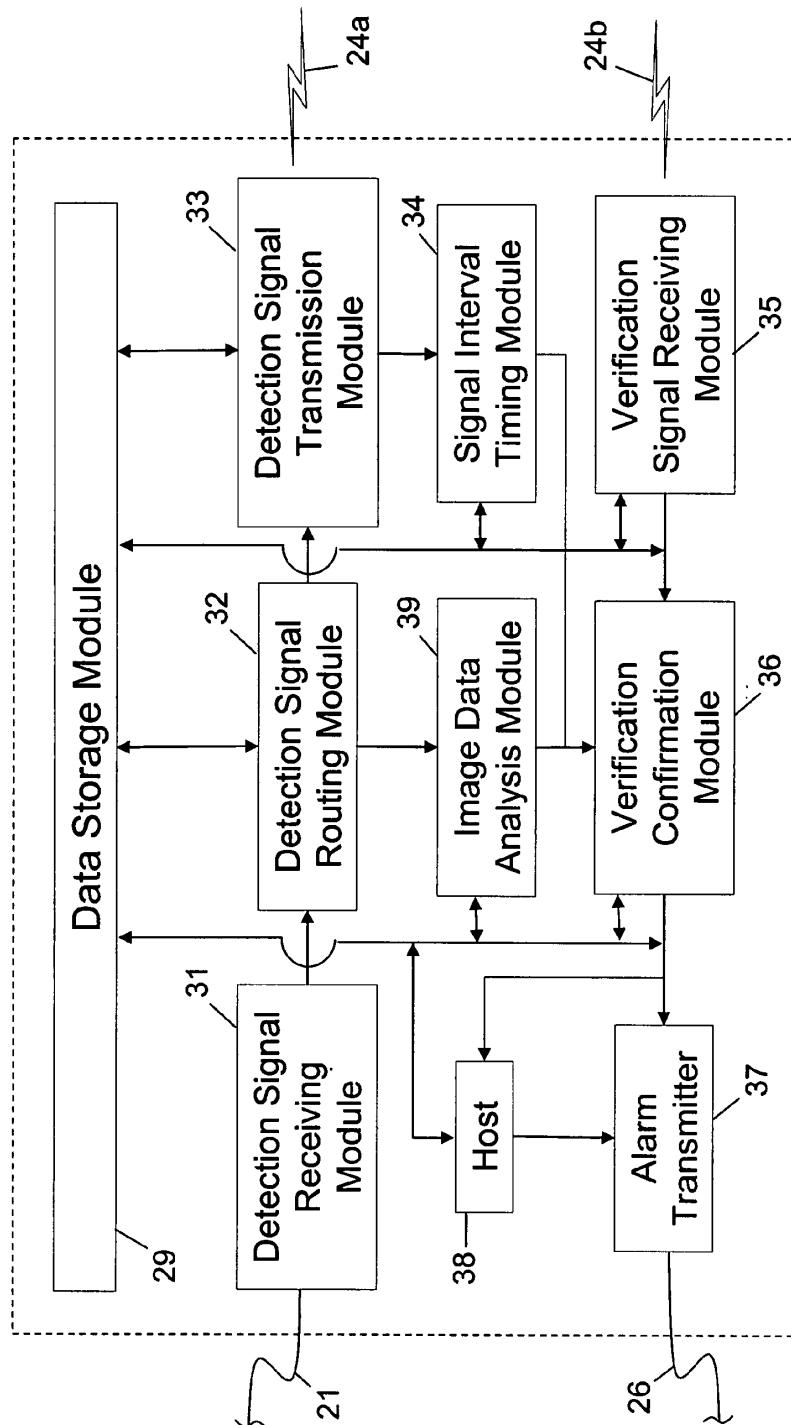


FIG. 2

**FIG. 3**

# 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.