



US009490998B1

(12) **United States Patent**
Danciu et al.

(10) **Patent No.:** **US 9,490,998 B1**
(45) **Date of Patent:** **Nov. 8, 2016**

(54) **NETWORK-BASED REMOTE CONTROL**

(75) Inventors: **Daniel Danciu**, Zurich (CH); **Yaniv Bernstein**, Zurich (CH); **Ramona Bobohalma**, Adliswil (CH); **Oliver Heckmann**, Bach (CH); **Jasmine Langridge**, Zurich (CH); **Alin Sinpalean**, Zurich (CH)

(73) Assignee: **Google Inc.**, Mountain View, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1041 days.

(21) Appl. No.: **13/041,964**

(22) Filed: **Mar. 7, 2011**

Related U.S. Application Data

(60) Provisional application No. 61/411,386, filed on Nov. 8, 2010.

(51) **Int. Cl.**
G06F 15/177 (2006.01)
H04L 12/28 (2006.01)
H04L 29/12 (2006.01)

(52) **U.S. Cl.**
CPC **H04L 12/2818** (2013.01); **H04L 29/1233** (2013.01)

(58) **Field of Classification Search**
USPC 340/12.22, 12.23
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,587,125 B1* 7/2003 Paroz 715/740
7,240,836 B2* 7/2007 Vrotsos et al. 235/439
2002/0073183 A1* 6/2002 Yoon G05B 19/0421
709/220

2002/0143805 A1 10/2002 Hayes et al.
2005/0022134 A1* 1/2005 Tokashiki 715/764
2005/0096753 A1 5/2005 Arling et al.

OTHER PUBLICATIONS

Schwartz, "Xfinity Remote Prototype: iPad Demo at NCTA Show," May 12, 2010 [online]. Retrieved from the Internet: <http://blog.comcast.com/2010/05/xfinity-remote-prototype-ipad-demo-at-ncta-show.html> (5 pgs.).
"The Xfinity TV App," [online]. Comcast Interactive Media, LLC, 2011. First accessed on Feb. 24, 2011. Retrieved from the Internet: <http://www.xfinity.com/help/internet/mobile-tv-app/> (1 pg.).
"iTunes the all-new Remote. Put your iPhone, iPad, or iPod touch in charge of the show." [online] Apple Inc., 2011. First accessed on Sep. 14, 2010. Retrieved from the Internet: <http://www.apple.com/itunes/remote/> (4 pgs.).

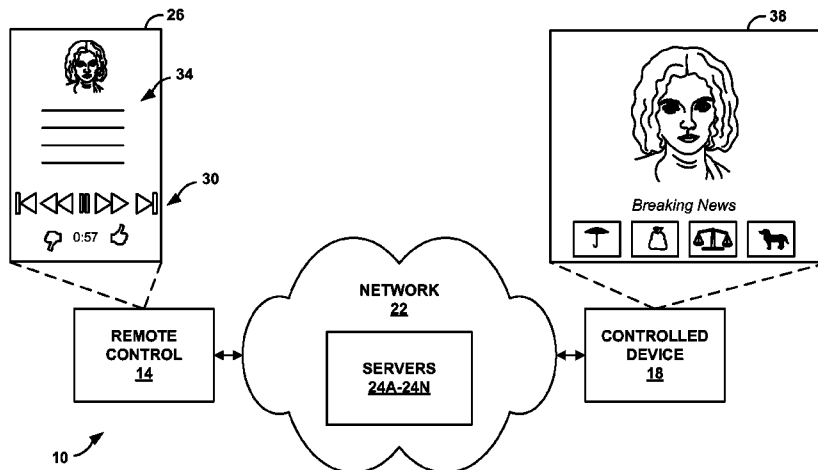
(Continued)

Primary Examiner — Jennifer Mehmood
Assistant Examiner — Yong Hang Jiang
(74) *Attorney, Agent, or Firm* — Shumaker & Sieffert, P.A.

(57) **ABSTRACT**

The subject matter of the present disclosure can be implemented in, among other things a computer-readable storage medium encoded with instructions for causing a programmable processor to receive, by a server, a first message from a remote control that is distinct from and external to the server, wherein the first message includes a remote control identifier and control information for controlling one or more functions of at least one device other than the remote control. The instructions also cause the programmable processor to retrieve, by the server, a controlled device identifier that uniquely identifies a controlled device that is distinct from and external to the server. The instructions also cause the programmable processor to send a second message from the server to the controlled device identified by the controlled device identifier to control an operation of the controlled device.

18 Claims, 7 Drawing Sheets



(56)

References Cited

OTHER PUBLICATIONS

"TubeMote the remote control for the web." [online] TubeMote, 2011. First accessed on Sep. 14, 2010. Retrieved from the Internet: <<http://www.tubemote.com>> (3 pgs.).
Office Action from U.S. Appl. No. 13/249,982, dated May 24, 2012, 12 pgs.
Office Action from U.S. Appl. No. 13/249,982, dated Jan. 25, 2012, 11 pgs.
Response to Office Action dated Jan. 25, 2012 from U.S. Appl. No. 13/249,982, filed Apr. 18, 2012, 13 pgs.
Advisory Action before the Filing of an Appeal Brief from U.S. Appl. No. 13/249,982, mailed Jun. 21, 2016 3 pgs.

Final Office Action from U.S. Appl. No. 13/249,982, mailed Mar. 23, 2016 17 pgs.
Response to Final Office Action mailed Mar. 23, 2016 from U.S. Appl. No. 13/249,982, filed Jun. 2, 2016 11 pgs.
Office Action from U.S. Appl. No. 13/249,982, dated Oct. 1, 2015, 12 pp.
Response to Office Action from U.S. Appl. No. 13/249,982, filed Dec. 3, 2015 9 pp.
Decision on Appeal from U.S. Appl. No. 13/249,982, dated Aug. 4, 2015, 7 pp.
Response to the Final Office Action dated May 24, 2012, and the Decision on Appeal dated Aug. 4, 2015, from U.S. Appl. No. 13/249,982, filed Sep. 2, 2015, 9 pp.

* cited by examiner

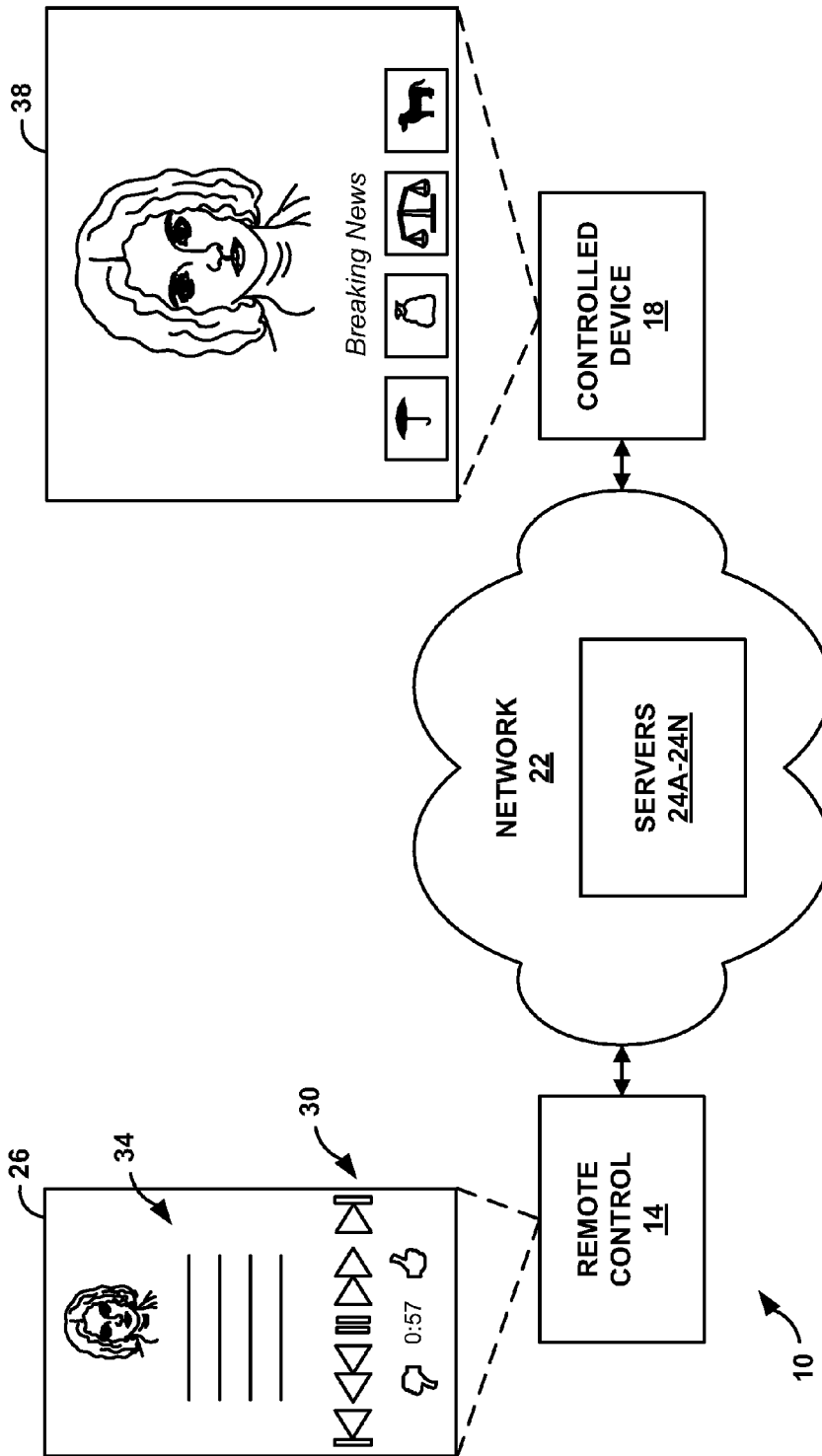


FIG. 1

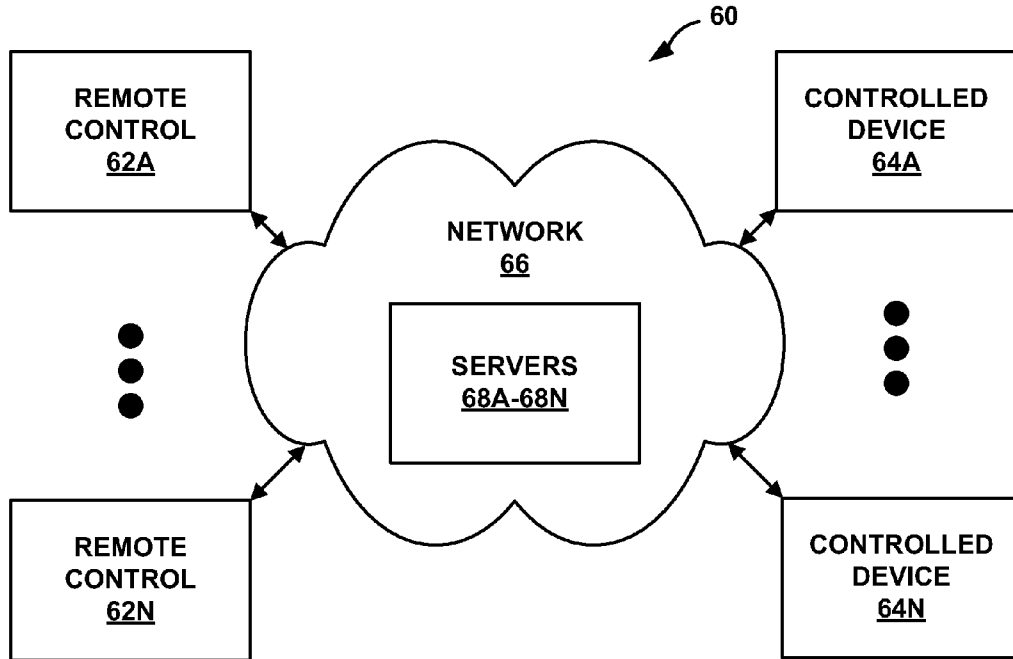


FIG. 2

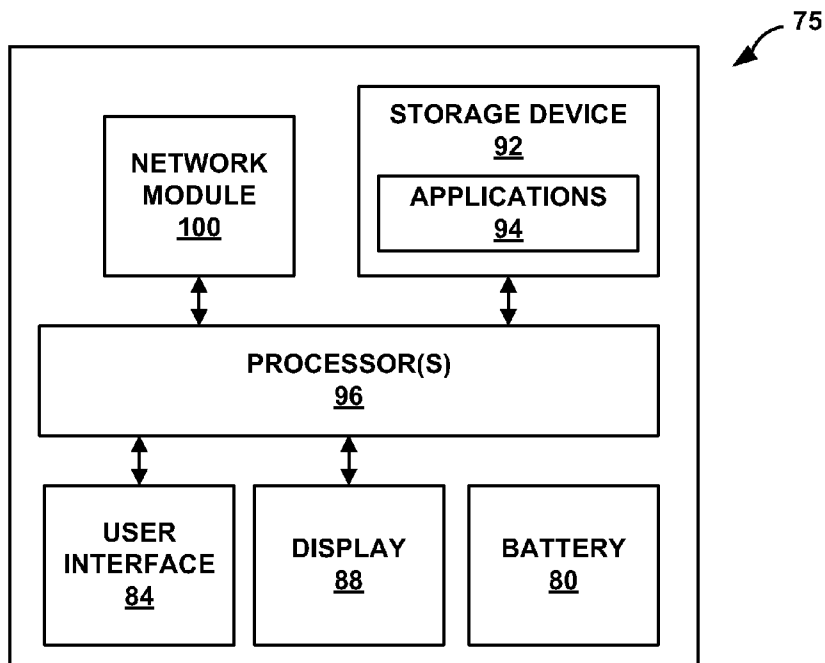


FIG. 3

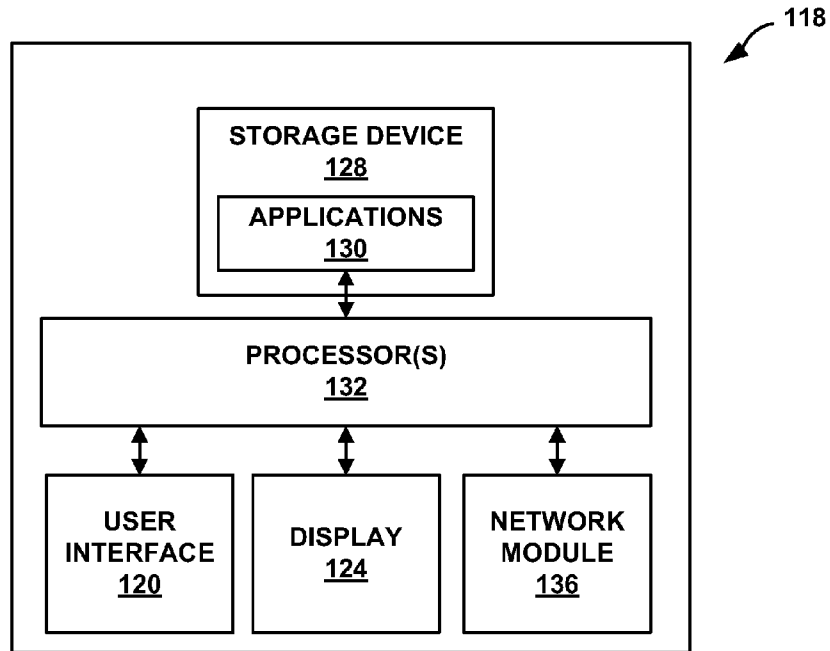


FIG. 4

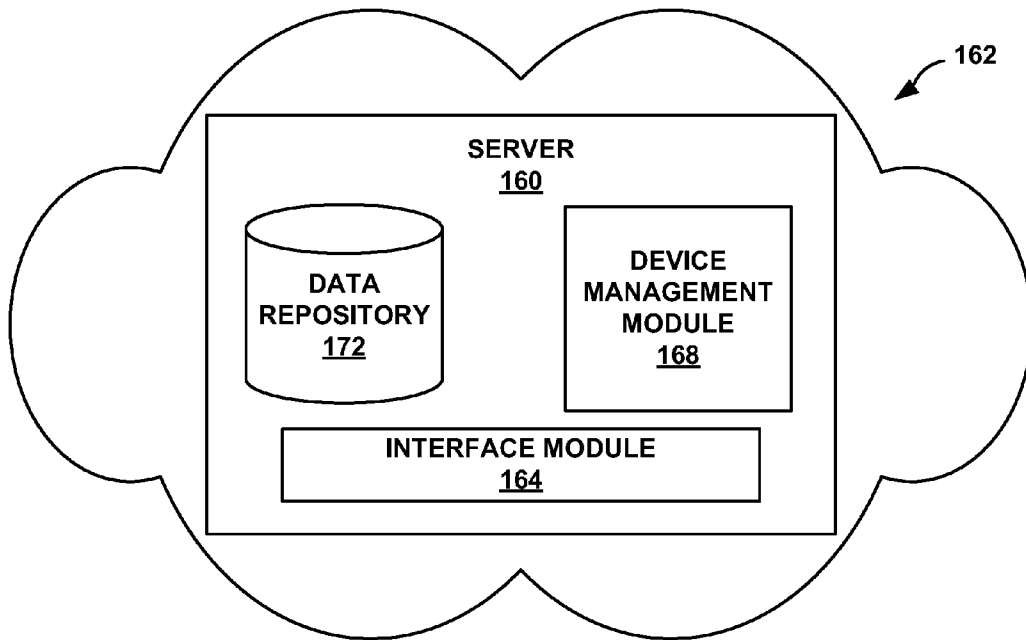


FIG. 5

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.