US 20130111018A1

(19) United States

(12) Patent Application Publication

(10) Pub. No.: US 2013/0111018 A1

(43) Pub. Date: May 2, 2013

Ammons et al.

(54) **PASSIVE MONITORING OF VIRTUAL SYSTEMS USING AGENT-LESS, OFFLINE INDEXING**

(75) Inventors: **Glenn S. Ammons**, West Chester, PA (US); **Ahmed M. Azab**, Raleigh, NC (US); **Vasanth Bala**, Rye, NY (US); **Sastry S. Duri**, Yorktown Heights, NY (US); **Todd W. Mummert**, Danbury, CT (US); **Darrell C. Reimer**, Tarrytown, NY (US); **Lakshminarayanan Renganarayana**, Elmsford, NY (US); **Xiaolan Zhang**, Chappaqua, NY (US)

(73) Assignee: **INTERNATIONAL BUSINESS MACHINES COPORATION**, Armonk, NY (US)

(21) Appl. No.: **13/527,948**

(22) Filed: **Jun. 20, 2012**

Related U.S. Application Data

(60) Provisional application No. 61/552,797, filed on Oct. 28, 2011.

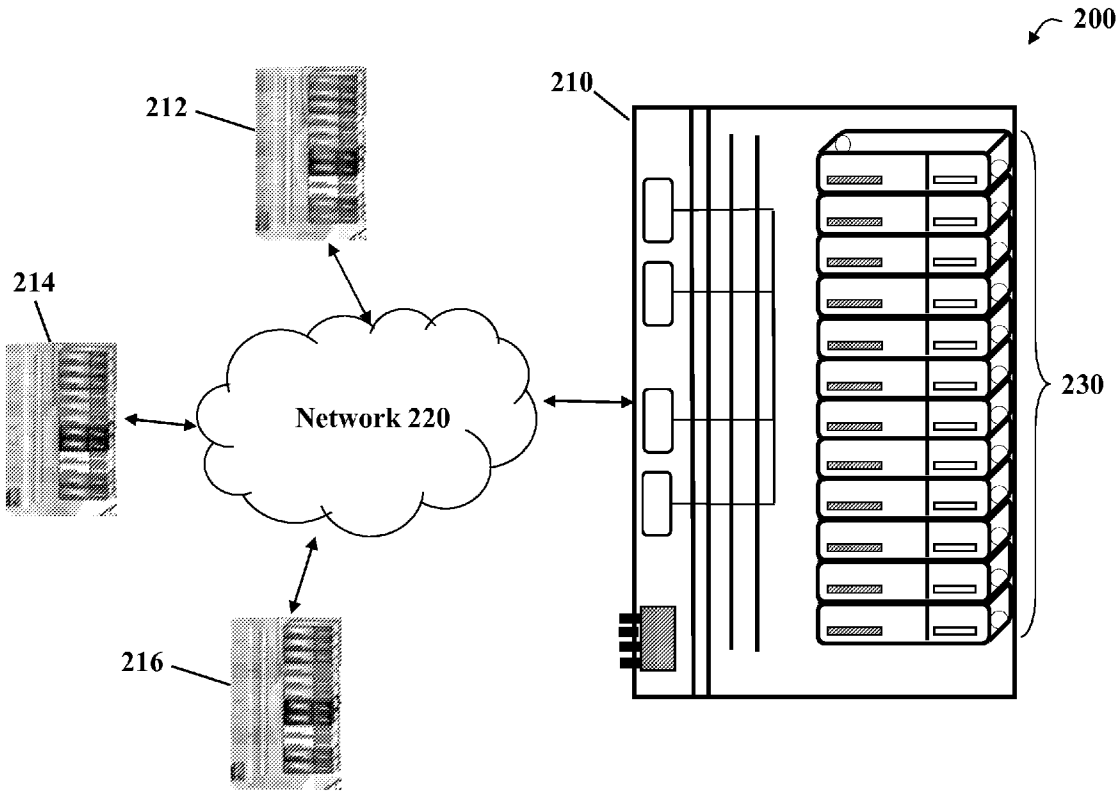
Publication Classification

(51) **Int. Cl.**
G06F 15/173 (2006.01)

(52) **U.S. Cl.**
USPC **709/224**

(57) **ABSTRACT**

Aspects of the present invention provide a solution for passively monitoring a computer system. In an embodiment, a virtual server is accessed by an indexing agent that is contained in an indexing appliance. The virtual server is located on a physical server and is one of a plurality of virtual system instances on a common physical server. The indexing appliance is separate from the virtual server and, as such, the indexing agent is not executed within the virtual server, itself. The indexing agent retrieves a virtual image of the virtual server and indexes the virtual image to extract features indicative of changes in the virtual server. These features are analyzed to perform passive monitoring of the virtual server. Since the indexing appliance is separate from the virtual server for which passive monitoring is being performed, the indexing agent can perform the retrieving and the indexing without utilizing agents executing within the virtual server.



DOCKET ALARM

Find authenticated court documents without watermarks at docketalarm.com.

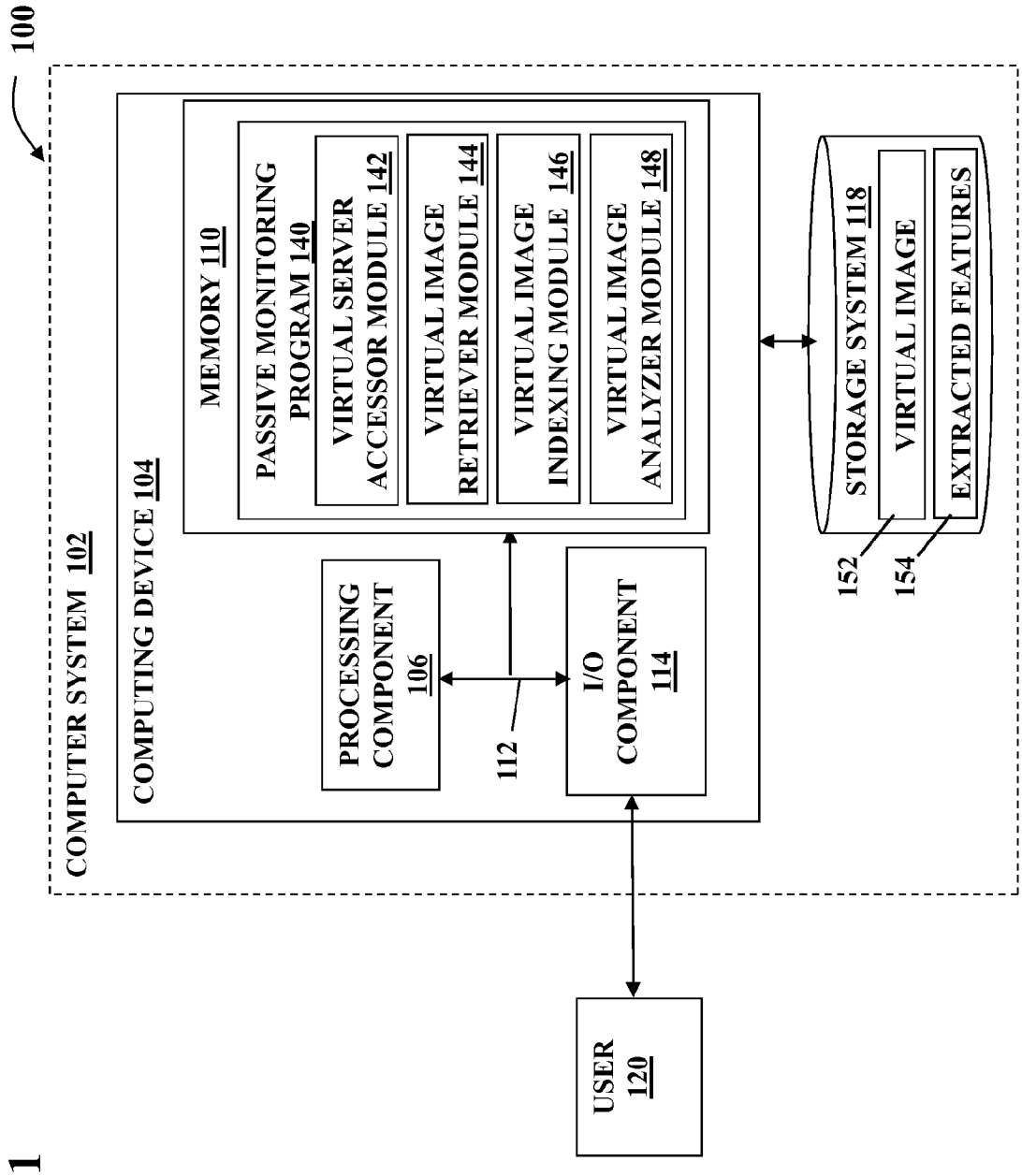


Figure 1

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

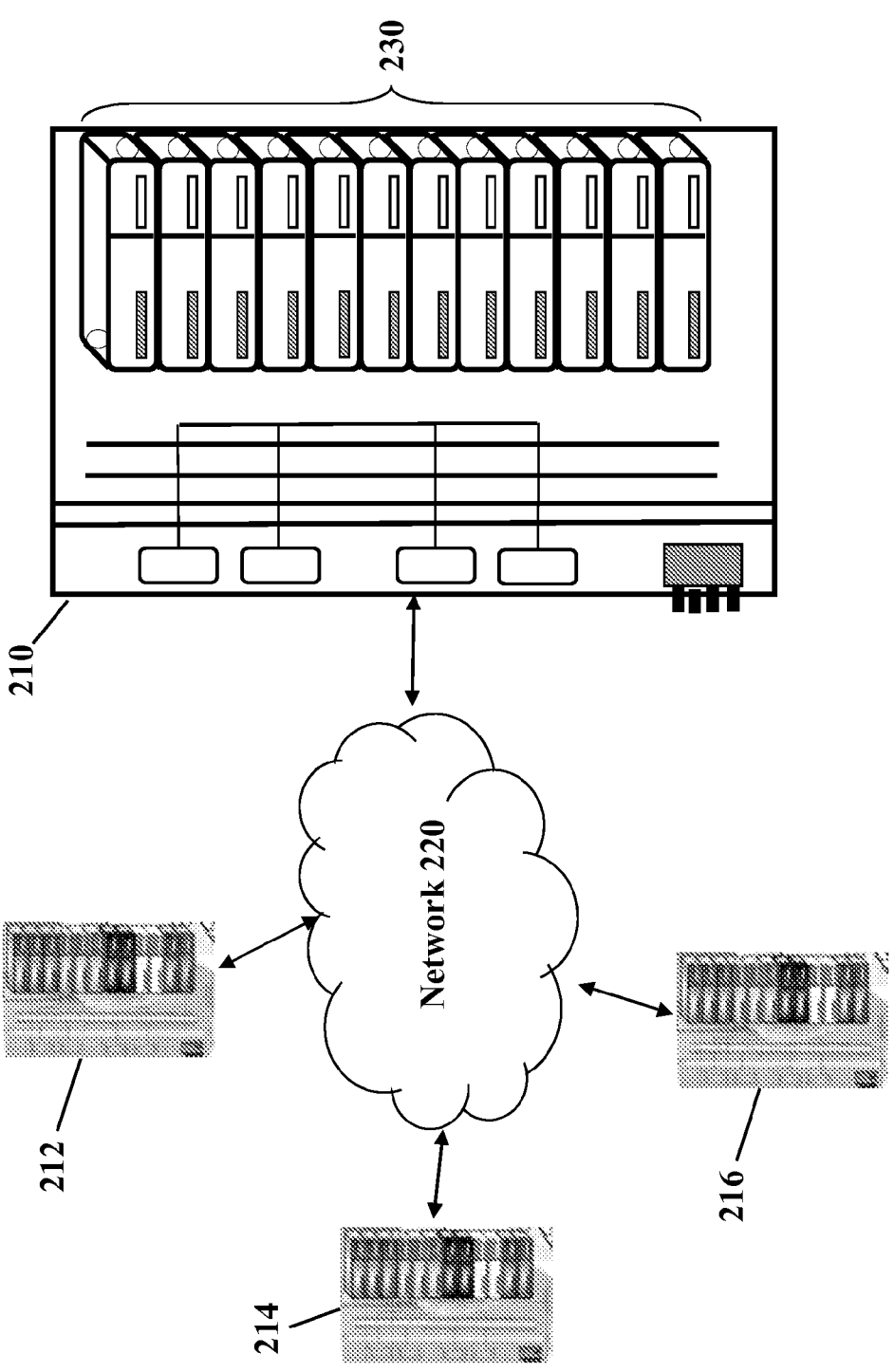


Figure 2

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

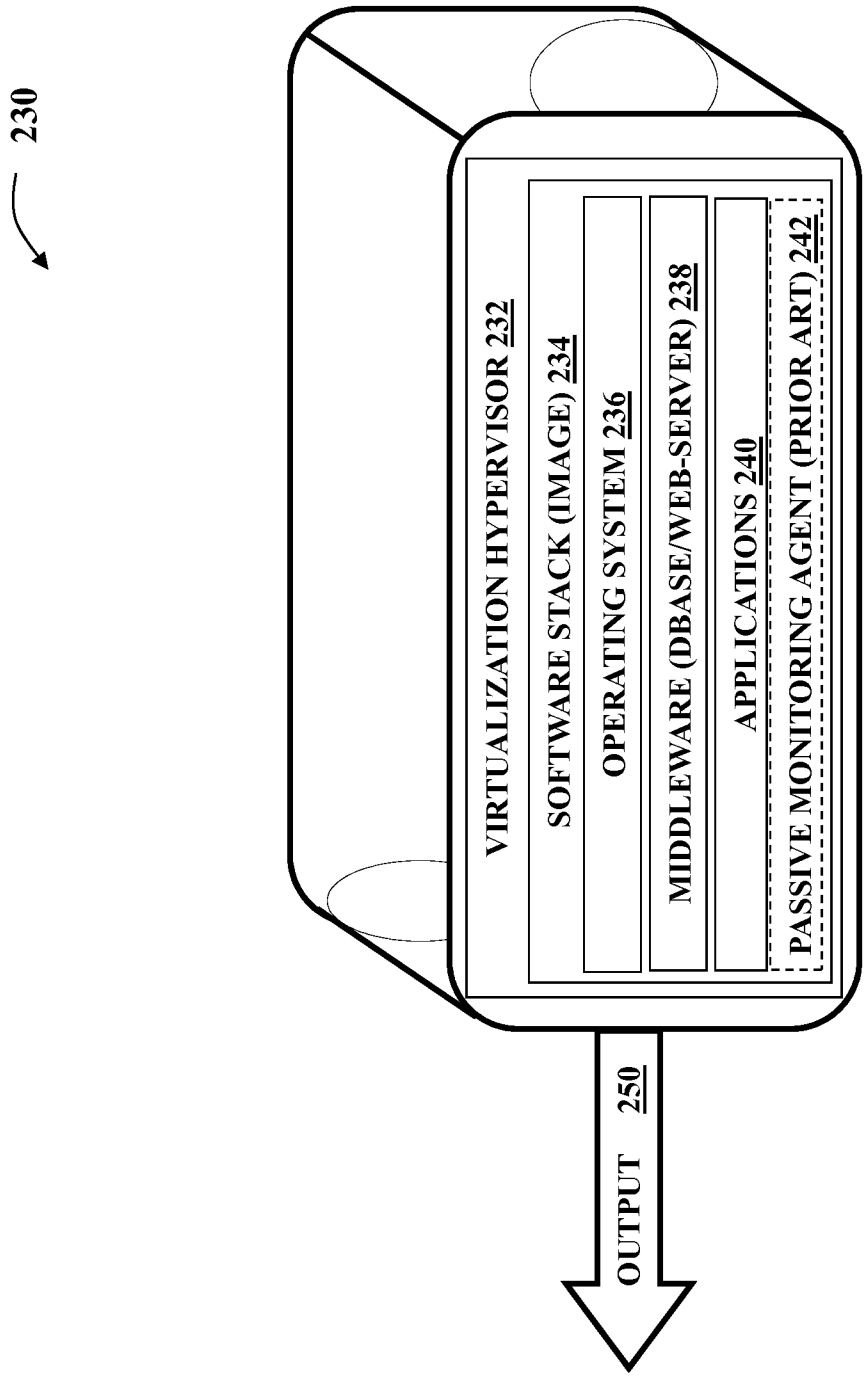


Figure 3

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

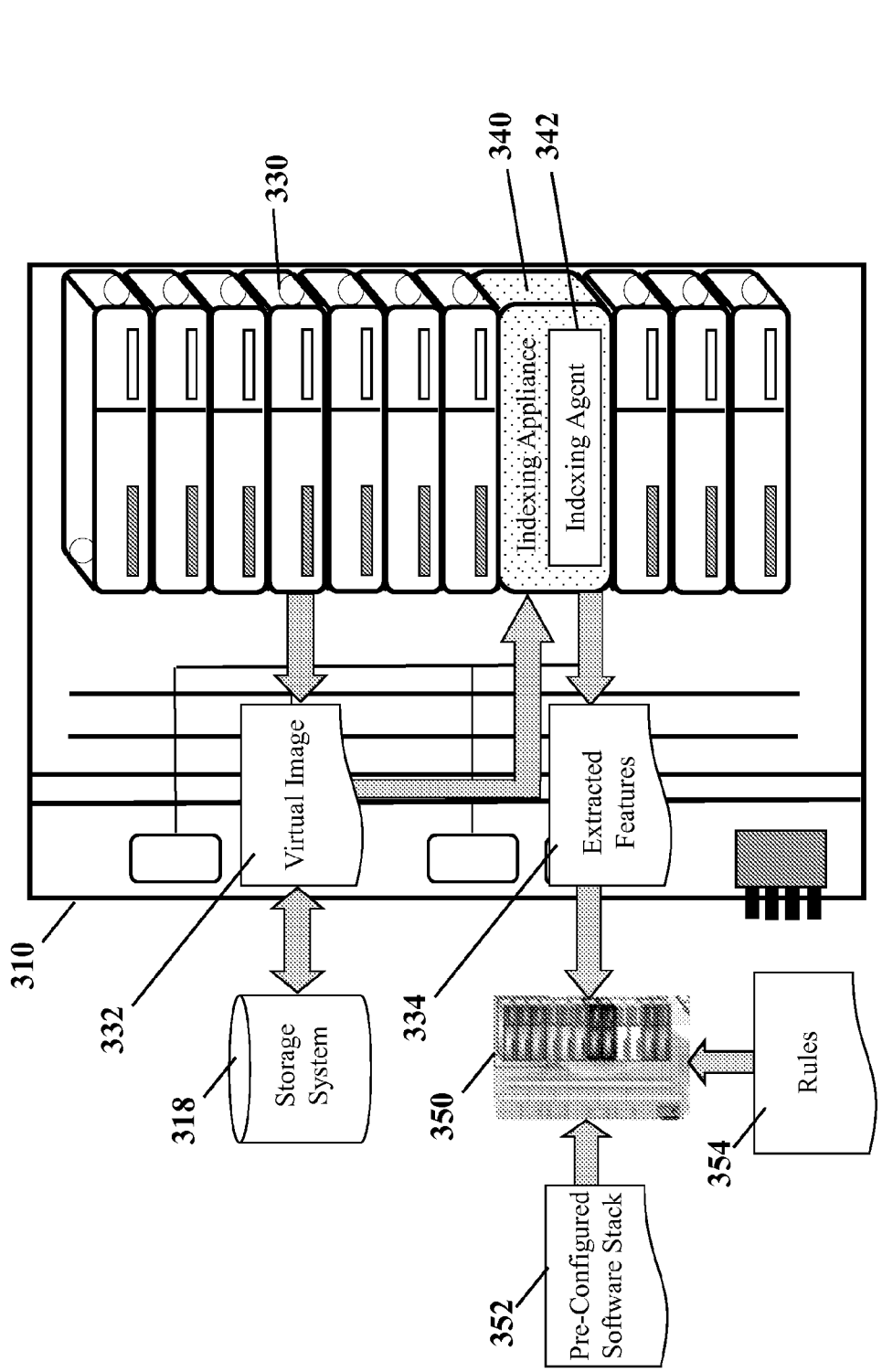


Figure 4

DOCKET ALARM
Find authenticated court documents without watermarks at docketalarm.com.

DOCKET ALARM

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.