EXHIBIT A

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

US009367521B2

(12) **United States Patent**
O'Sullivan et al.

(10) **Patent No.: US 9,367,521 B2**
(45) **Date of Patent: Jun. 14, 2016**

(54) **CONTENT AND CONTEXT BASED HANDLING OF INSTANT MESSAGES**

(75) Inventors: **Patrick J. O'Sullivan**, Dublin (IE); **Edith H. Stern**, Yorktown Heights, NY (US); **Robert C. Weir**, Westford, MA (US); **Barry E. Willner**, Briarcliff Manor, NY (US); **Marjorie R. Willner**, Briarcliff Manor, NY (US)

(73) Assignee: **International Business Machines Corporation**, Armonk, NY (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 2487 days.

(21) Appl. No.: **12/023,027**

(22) Filed: **Jan. 30, 2008**

(65) **Prior Publication Data**

US 2009/0192970 A1 Jul. 30, 2009

(51) **Int. Cl.**

G06N 5/00	(2006.01)
G06F 1/00	(2006.01)
G06F 17/21	(2006.01)
H04L 12/58	(2006.01)

(52) **U.S. Cl.**

CPC ***G06F 17/211*** (2013.01); ***H04L 12/581*** (2013.01); ***H04L 51/04*** (2013.01)

(58) **Field of Classification Search**

USPC 706/48; 709/224; 726/1

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

7,827,561	B2 *	11/2010	McKee et al.	719/313
2004/0201623	A1	10/2004	Hamilton, II et al.	
2004/0205161	A1	10/2004	Hamilton, II et al.	
2004/0215730	A1	10/2004	Hamilton, II et al.	
2005/0132011	A1	6/2005	Muller et al.	
2006/0168048	A1	7/2006	Lyle et al.	
2006/0227943	A1	10/2006	Yan	
2006/0248150	A1	11/2006	Chaar et al.	
2007/0156832	A1	7/2007	Daniels-Farrar et al.	
2009/0063639	A1 *	3/2009	Lingafelt et al.	709/206
2009/0089417	A1 *	4/2009	Giffin et al.	709/224
2009/0100497	A1 *	4/2009	Goldberg et al.	726/1

OTHER PUBLICATIONS

Matt Hines, CNET News.com, IM status: More worms on the way, Mar. 23, 2005, pp. 1-3, http://www.zdnetasia.com/news/security/0,39044215,39222828,00.htm.

Carroll Communications Inc., Solutions That Work, 2008, pp. 1-2, http://www.carrollcommunications.com/ipoffice/5donotdisturb.html.

South Central Rural Telephone Company, Do Not Disturb Services, 2006, pp. 1-2, http:www.scrtc.com/donotdisturbservice.html.

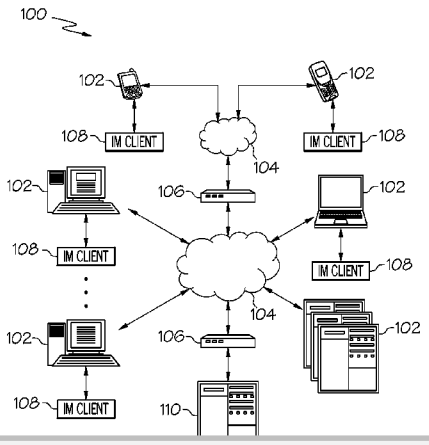
(Continued)

Primary Examiner — Stanley K Hill
Assistant Examiner — Kalpana Bharadwaj
(74) *Attorney, Agent, or Firm* — Stevens & Showalter, LLP

(57) **ABSTRACT**

Instant message systems are enhanced by establishing at least one handling rule that is evaluated in an instant messaging environment, each established handling rule defining a condition based upon at least one of identified content or identified context, and a corresponding event handling action to be performed within the instant message environment. Upon identifying an instant message conversation within the instant message environment between a user and a correspondent, each handling rule is evaluated and the event handling action of an associated handling rule is performed if it is determined that the condition of handling rule is satisfied. Further, an indication that the corresponding event action was performed is conveyed to a corresponding user.

2 Claims, 7 Drawing Sheets



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

(56) **References Cited**

OTHER PUBLICATIONS

Ecma International, Standard ECMA-193, Private Integrated Services Network (PISN)—Specification, Functional Model and Information Flows—Do Not Disturb and Do Not Disturb Override Supplementary Services (DND(O)SD), 2nd edition (Jun. 1997), 1 pg., http://www.ecma/-international.org/flat/publications/Standards/ecma-193.htm.

* cited by examiner

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

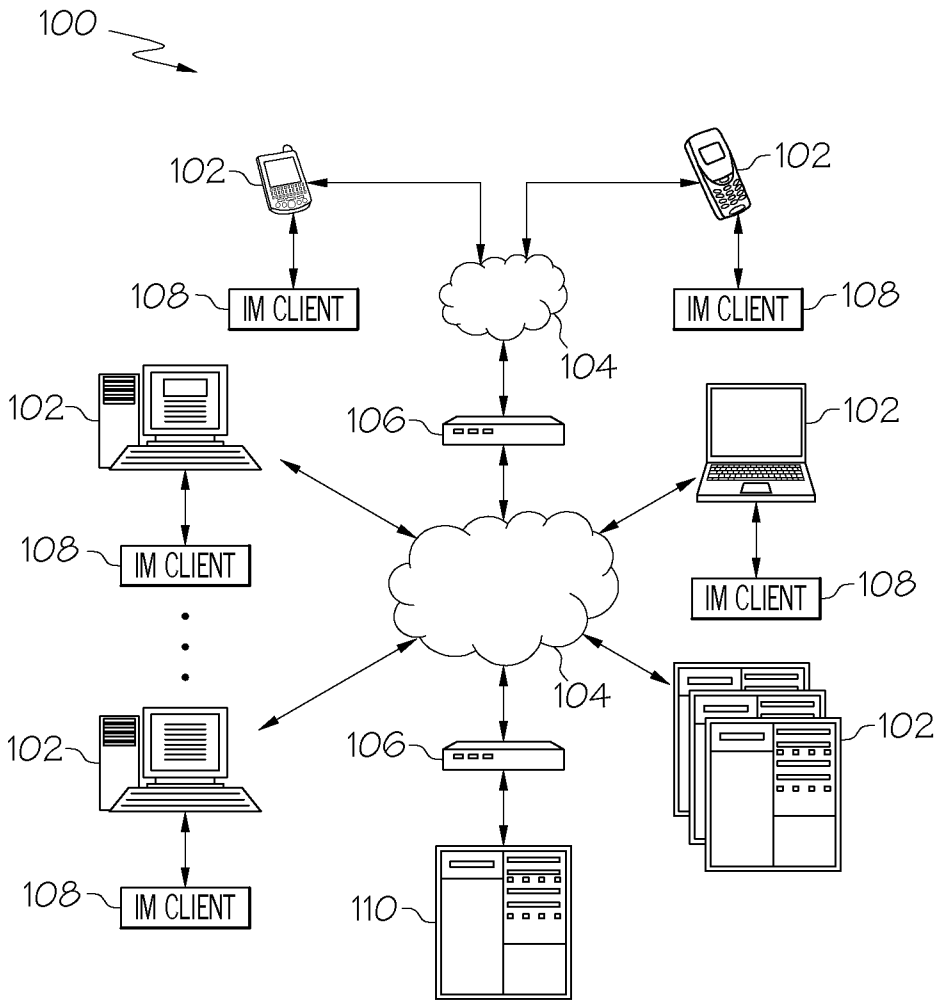


FIG. 1

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

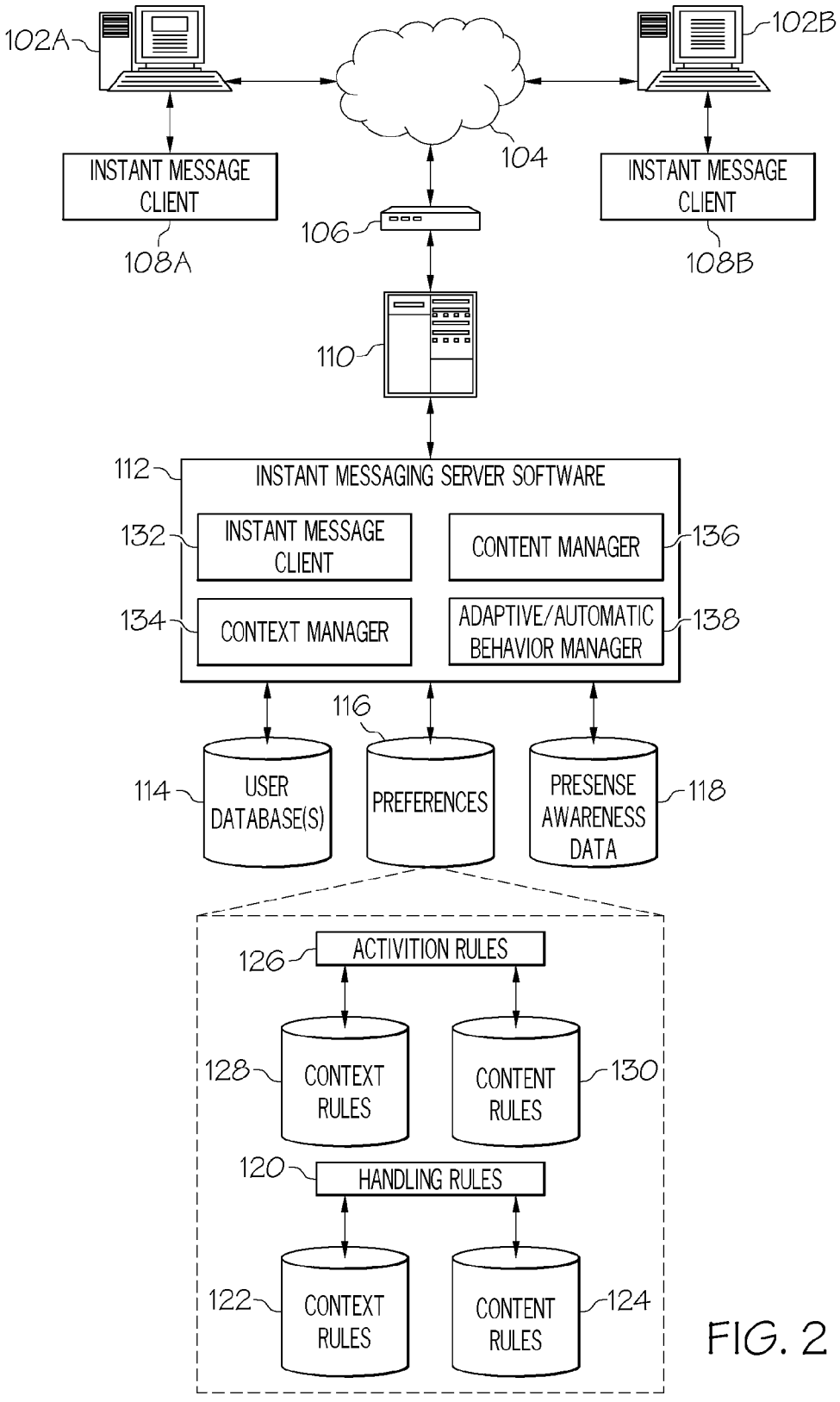


FIG. 2

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.