



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

(10) **Patent No.:** **US 8,737,578 B2**  
(45) **Date of Patent:** **\*May 27, 2014**

(54) **METHOD AND DEVICE FOR ENABLING MESSAGE RESPONSES TO INCOMING PHONE CALLS**

(75) Inventors: **David Champlin**, Menlo Park, CA (US); **Sriikiran Prasad**, Cupertino, CA (US); **Lang Chen**, Oakland, CA (US); **Rajan Ranga**, Palo Alto, CA (US); **Robert Haitani**, Menlo Park, CA (US)

(73) Assignee: **QUALCOMM Incorporated**, San Diego, CA (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/607,419**

(22) Filed: **Sep. 7, 2012**

(65) **Prior Publication Data**

US 2012/0329494 A1 Dec. 27, 2012

**Related U.S. Application Data**

(63) Continuation of application No. 12/901,376, filed on Oct. 8, 2010, now Pat. No. 8,311,189, which is a continuation of application No. 11/200,511, filed on Aug. 8, 2005, now Pat. No. 7,844,037.

(51) **Int. Cl.**

**H04M 1/64** (2006.01)  
**H04B 7/00** (2006.01)  
**G01L 11/00** (2006.01)

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

USPC ..... **379/88.17**; 370/310; 370/352; 379/72; 379/88.14; 379/88.28; 379/142.01; 379/201.01; 455/410; 455/422.1; 455/435.1; 455/406; 455/567; 704/270.1

(58) **Field of Classification Search**

CPC ..... H04L 12/5835; H04L 12/5895; H04L 51/066; H04M 1/72552  
USPC ..... 370/310, 352; 379/72, 88.14, 88.17, 379/88.28, 142.01, 201.01, 60, 88.01, 379/127.01, 142.07, 221.05, 265.11; 455/410, 422.1, 435.1, 466, 557, 567; 704/270.1; 600/509; 709/219  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,922,526 A 5/1990 Morganstein et al.  
4,996,704 A 2/1991 Brunson

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0611239 A1 8/1994  
KR 10-2006-009313 8/2006

(Continued)

OTHER PUBLICATIONS

“MobileBurn Forms—PDF/Smartphone—S60-6630 Owners”, Dec. 13, 2004, XP055058120, URL: <http://forums.mobileburn.com/archive/index.php/t-6676.html> [retrieved Jan. 3, 2007].

(Continued)

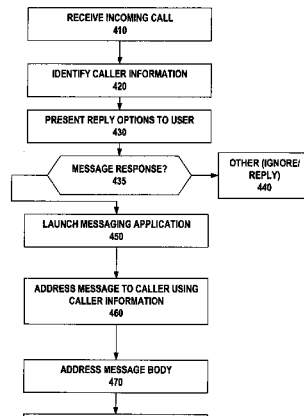
Primary Examiner — Gerald Gauthier

(74) Attorney, Agent, or Firm — Mahamedi Paradise Kreisman LLP

(57) **ABSTRACT**

A computing device is configured to receive an incoming communication from another computing device. The incoming communication may be for purpose of initiating a voice-exchange session. In response to receiving the incoming call, the computing device may identify or determine a message identifier of the other computing device. The message identifier is determined based at least in part on data provided with the incoming communication. The computing device may programmatically address a message to the other computing device using the message identifier determined from the incoming communication.

**15 Claims, 4 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

5,325,419 A \* 6/1994 Connolly et al. .... 455/435.1  
 5,396,544 A 3/1995 Gilbert et al.  
 5,581,604 A 12/1996 Robinson et al.  
 5,585,749 A 12/1996 Pace et al.  
 5,724,408 A 3/1998 Morganstein et al.  
 5,748,100 A 5/1998 Gutman et al.  
 5,751,707 A 5/1998 Voit et al.  
 5,799,066 A 8/1998 Joyce et al.  
 5,805,978 A 9/1998 Souissi et al.  
 5,822,416 A \* 10/1998 Goodacre et al. .... 379/142.07  
 5,844,967 A 12/1998 Lee  
 5,884,193 A 3/1999 Kaplan  
 5,894,505 A 4/1999 Koyama  
 5,930,700 A 7/1999 Pepper et al.  
 5,943,401 A 8/1999 Risner et al.  
 5,946,386 A 8/1999 Rogers et al.  
 5,963,626 A 10/1999 Nabkel  
 5,991,290 A 11/1999 Malik  
 6,018,671 A 1/2000 Bremer  
 6,035,018 A \* 3/2000 Kaufman ..... 379/88.17  
 6,047,057 A 4/2000 Wieshut et al.  
 6,055,305 A 4/2000 Norman et al.  
 6,081,845 A 6/2000 Kanemaki et al.  
 6,219,413 B1 4/2001 Burg  
 6,229,878 B1 5/2001 Moganti  
 6,400,814 B1 6/2002 Adams  
 6,404,860 B1 6/2002 Casellini  
 6,430,271 B1 8/2002 DeJesus et al.  
 6,438,216 B1 \* 8/2002 Aktas ..... 379/88.01  
 6,463,131 B1 10/2002 French-St. George et al.  
 6,484,036 B1 11/2002 Sorkin et al.  
 6,504,912 B1 1/2003 Glossbrenner  
 6,519,326 B1 2/2003 Milewski et al.  
 6,529,500 B1 \* 3/2003 Pandharipande ..... 370/352  
 6,580,786 B1 \* 6/2003 Yarlagadda ..... 379/88.17  
 6,647,108 B1 11/2003 Wurster et al.  
 6,680,935 B1 1/2004 Kung et al.  
 6,697,473 B2 2/2004 Batten  
 6,768,789 B1 7/2004 Wilk  
 6,795,530 B1 9/2004 Gilbert et al.  
 6,804,334 B1 10/2004 Beasley et al.  
 6,816,578 B1 \* 11/2004 Kreda et al. .... 379/88.17  
 6,823,184 B1 11/2004 Nelson  
 6,839,877 B2 1/2005 Iwata  
 6,842,448 B1 \* 1/2005 Norris et al. .... 370/352  
 7,009,990 B1 3/2006 Adams et al.  
 7,010,288 B2 3/2006 Brown et al.  
 7,023,979 B1 \* 4/2006 Wu et al. .... 379/265.11  
 7,027,583 B2 4/2006 Uranaka et al.  
 7,051,099 B2 5/2006 Ziegler et al.  
 7,124,175 B1 \* 10/2006 Wolfe et al. .... 709/219  
 7,136,466 B1 11/2006 Gao  
 7,200,387 B1 4/2007 Ephraim et al.  
 7,218,710 B1 5/2007 Ali et al.  
 7,272,220 B1 9/2007 Zhang et al.  
 7,286,649 B1 10/2007 Nelson et al.  
 7,305,068 B2 12/2007 Tucker et al.  
 7,471,946 B2 12/2008 Adamczyk et al.  
 7,496,348 B2 \* 2/2009 Srey et al. .... 455/410  
 7,570,747 B2 8/2009 Nakatsu  
 7,571,100 B2 \* 8/2009 Lenir et al. .... 704/270.1  
 7,571,458 B1 8/2009 Eyal  
 7,634,069 B2 12/2009 Randall et al.  
 7,676,034 B1 3/2010 Wu et al.  
 7,684,910 B2 3/2010 Inbarajan  
 7,756,616 B2 7/2010 Helm  
 7,844,037 B2 \* 11/2010 Champlin et al. .... 379/88.17  
 7,936,861 B2 \* 5/2011 Knott et al. .... 379/72  
 7,983,242 B2 \* 7/2011 Nasielski et al. .... 370/352  
 8,046,470 B2 10/2011 Lewis et al.  
 8,050,387 B1 11/2011 Putnam et al.  
 8,073,121 B2 \* 12/2011 Urban et al. .... 379/142.01  
 8,139,725 B2 \* 3/2012 Cohen et al. .... 379/88.14

8,311,189 B2 \* 11/2012 Champlin et al. .... 379/88.17  
 2001/0003826 A1 6/2001 Iwata  
 2002/0052225 A1 \* 5/2002 Davis et al. .... 455/567  
 2002/0067714 A1 6/2002 Crain et al.  
 2002/0094073 A1 \* 7/2002 Falkoff et al. .... 379/201.01  
 2002/0142803 A1 \* 10/2002 Yamamoto ..... 455/557  
 2002/0187794 A1 12/2002 Fostick et al.  
 2003/0078071 A1 \* 4/2003 Uchiyama ..... 455/557  
 2003/0218975 A1 11/2003 Niizato et al.  
 2004/0058676 A1 \* 3/2004 Kato et al. .... 455/422.1  
 2004/0203794 A1 10/2004 Brown et al.  
 2004/0230494 A1 11/2004 Lotvin et al.  
 2005/0117733 A1 \* 6/2005 Widger et al. .... 379/221.05  
 2005/0148890 A1 \* 7/2005 Hastings ..... 600/509  
 2005/0201533 A1 9/2005 Emam et al.  
 2005/0216949 A1 9/2005 Candelora et al.  
 2005/0227740 A1 10/2005 Orbach  
 2006/0015644 A1 1/2006 Cernohous et al.  
 2006/0020993 A1 1/2006 Hannum et al.  
 2006/0041470 A1 2/2006 Fiho et al.  
 2006/0087993 A1 \* 4/2006 Sengupta et al. .... 370/310  
 2006/0182245 A1 \* 8/2006 Steinmetz ..... 379/127.01  
 2006/0215829 A1 9/2006 Schwartz  
 2006/0270419 A1 11/2006 Crowley et al.  
 2007/0003027 A1 1/2007 Brandt  
 2007/0036286 A1 \* 2/2007 Champlin et al. .... 379/67.1  
 2007/0081657 A1 4/2007 Turner  
 2007/0121607 A1 5/2007 Gao  
 2007/0143429 A1 6/2007 Venkataraman et al.  
 2007/0258567 A1 11/2007 Koch  
 2007/0287411 A1 12/2007 Kim et al.  
 2008/0253549 A1 10/2008 Loveland  
 2009/0005023 A1 1/2009 Toorn  
 2009/0061833 A1 3/2009 Ho et al.  
 2011/0028168 A1 \* 2/2011 Champlin et al. .... 455/466  
 2011/0212737 A1 \* 9/2011 Isidore ..... 455/466  
 2012/0329494 A1 \* 12/2012 Champlin et al. .... 455/466

FOREIGN PATENT DOCUMENTS

KR 10-2006-0093183 A 8/2006  
 KR 10-2007-007836 7/2007  
 KR 10-2007-0078369 A 7/2007

OTHER PUBLICATIONS

EPO, Office Action dated Apr. 5, 2013, related EP App No. 06800929.9.  
 International Search Report and Written Opinion mailed Jan. 15, 2007 for PCT/US2006/030827 15 pgs.  
 International Search Report and Written Opinion mailed Jan. 29, 2009 for PCT/US2008/074320 14 pgs.  
 Internet Telephony Manager (ITM) User Guide, XP002413107, Dec. 1, 1996, pp. 1-5.  
 Nokia 6630 Users Guide, XP002413106, Mar. 28, 2005, pp. 1-109.  
 Sharma et al., "Intelligent Agents in Call Management System," Integration of Knowledge Intensive Multi-Agent Systems International Conference, XP010793134, Apr. 18, 2005 pp. 9-14.  
 EP Application No. 06800929.9, Office Action mailed on Nov. 23, 2010, 3 pages.  
 International Application No. PCT/US2006/030827, International Preliminary Report on Patentability mailed on Mar. 24, 2010, 10 pages.  
 U.S. Appl. No. 11/200,511, Final Office Action mailed on Jun. 17, 2010, 9 pages.  
 U.S. Appl. No. 11/200,511, Non-Final Office Action mailed on Feb. 27, 2009, 10 pages.  
 U.S. Appl. No. 11/200,511, Non-Final Office Action mailed on Jan. 26, 2010, 11 pages.  
 U.S. Appl. No. 11/200,511, Non-Final Office Action mailed on Jul. 24, 2009, 12 pages.

(56)

**References Cited**

OTHER PUBLICATIONS

U.S. Appl. No. 11/848,216, Non-Final Office Action mailed on Sep. 16, 2010, 12 pages.

U.S. Appl. No. 12/901,376, Non-Final Office Action mailed on Apr. 18, 2012, 9 pages.

U.S. Appl. No. 12/901,376, Notice of Allowance mailed on Jul. 25, 2012, 9 pages.

\* cited by examiner

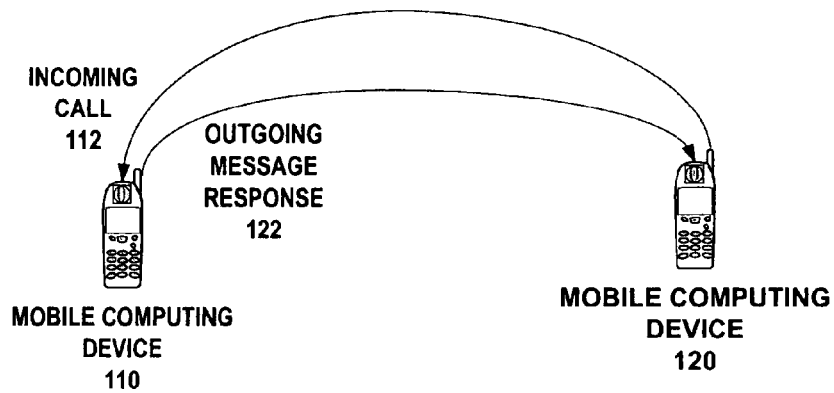


FIG. 1

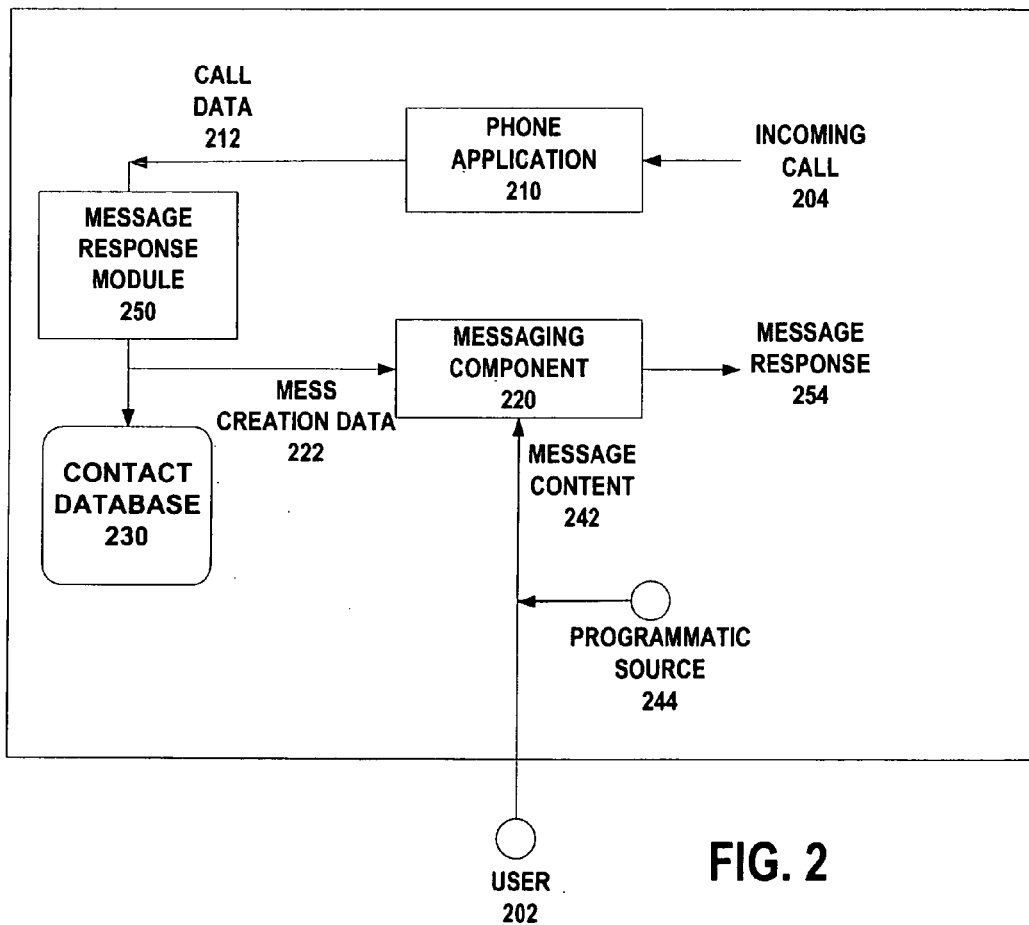


FIG. 2

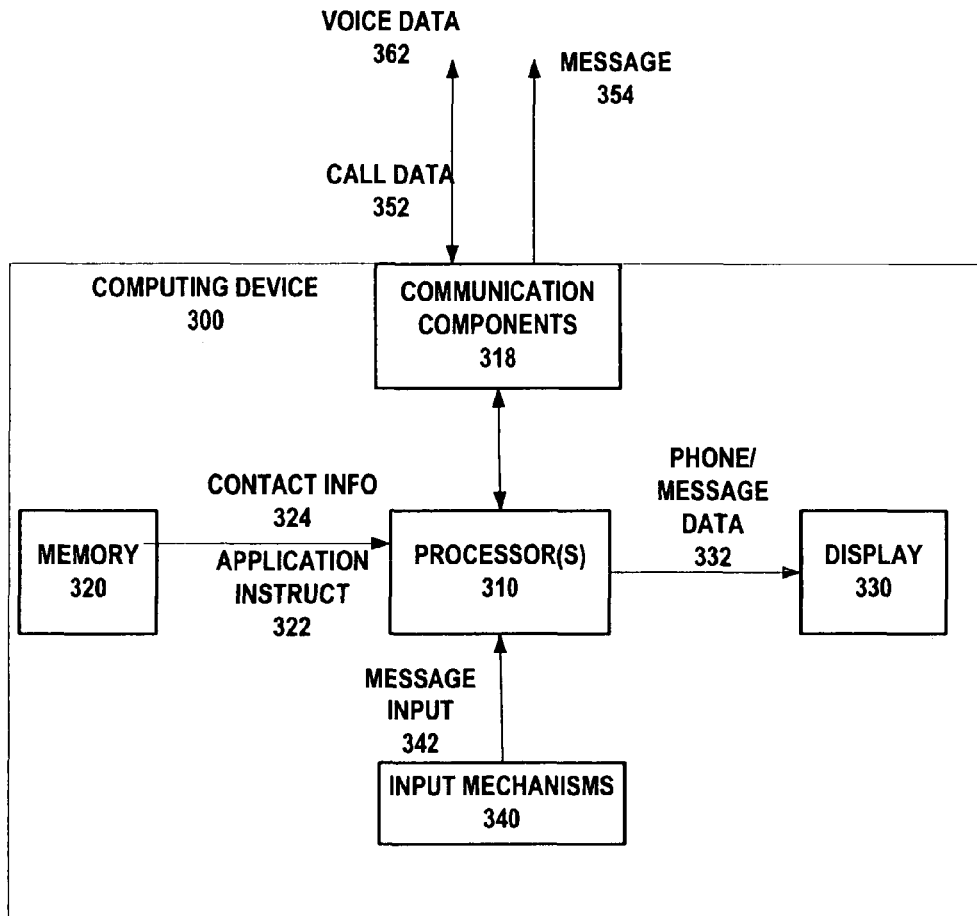


FIG. 3

# 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.