



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

(10) **Patent No.:** **US 8,438,221 B2**
(45) **Date of Patent:** ***May 7, 2013**

(54) **BROADCAST ALERTING MESSAGE AGGREGATOR/GATEWAY SYSTEM AND METHOD**

(75) Inventors: **Mark Andrew Wood**, Haselmere (GB); **Kevin Russell Preston**, Newport (GB); **Douglas Weiser**, New Port Richey, FL (US)

(73) Assignee: **EnvisionIT, LLC**, St. Charles, MO (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.: **13/311,448**

(22) Filed: **Dec. 5, 2011**

(65) **Prior Publication Data**

US 2012/0142307 A1 Jun. 7, 2012

Related U.S. Application Data

(63) Continuation of application No. 12/559,405, filed on Sep. 14, 2009, now Pat. No. 8,073,903, which is a continuation of application No. 11/057,704, filed on Feb. 14, 2005, now Pat. No. 7,752, 259.

(60) Provisional application No. 60/544,739, filed on Feb. 13, 2004.

(51) **Int. Cl.**
G06F 15/16 (2006.01)
G06F 15/173 (2006.01)

(52) **U.S. Cl.**
USPC **709/203; 709/206; 709/225**

(58) **Field of Classification Search** **709/203-207, 709/224-225; 455/403-404.1**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,415,771 A 11/1983 Martinez
4,887,308 A 12/1989 Dutton

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0915598 9/1999
EP 1032148 8/2000

(Continued)

OTHER PUBLICATIONS

3rd Generation Partnership Project TS 23.246, Release 6, Sep. 2004.

(Continued)

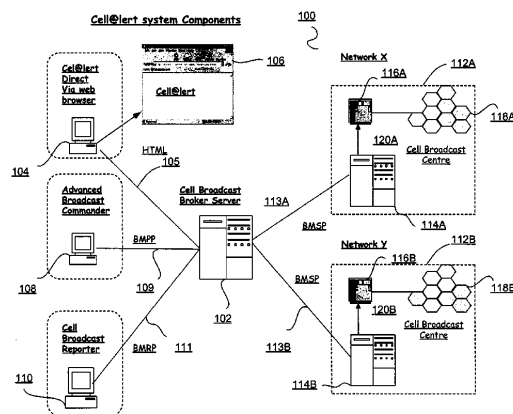
Primary Examiner — Joshua Joo

(74) *Attorney, Agent, or Firm* — Polster, Lieder, Woodruff & Lucchesi, L.C.

(57) **ABSTRACT**

A message processing system and method providing a broadcast message to a plurality of user devices located within a geographically defined broadcast target area, the system including a broadcast service bureau communicatively coupled for receiving from a broadcast agent access system providing a broadcast request from an originating broadcast agent associated one broadcast agent message origination systems; the received broadcast request includes a broadcast agent identification, the geographically defined broadcast target area, and a broadcast message, the broadcast service bureau verifying the broadcast request as a function of the broadcast agent identification including an authority of the originating broadcast agent to send the broadcast message to the broadcast target area; the broadcast service bureau processing the verified broadcast request for transmission to one or more broadcast message networks providing broadcast message alerting service to at least a portion of the broadcast target area.

20 Claims, 11 Drawing Sheets



IBM EX. 1001

U.S. PATENT DOCUMENTS

| | | | | |
|--------------|------|---------|-------------------|-----------|
| 5,278,539 | A | 1/1994 | Lauterbach et al. | |
| 5,592,172 | A | 1/1997 | Bailey et al. | |
| 6,021,177 | A | 2/2000 | Allport | |
| 6,084,510 | A | 7/2000 | Lemelson et al. | |
| 6,112,075 | A | 8/2000 | Weiser | |
| 6,169,476 | B1 | 1/2001 | Flanagan | |
| 6,219,696 | B1 | 4/2001 | Wynblatt et al. | |
| 6,240,360 | B1 | 5/2001 | Phelan | |
| 6,346,890 | B1 | 2/2002 | Belin | |
| 6,463,273 | B1 | 10/2002 | Day | |
| 6,480,578 | B1 * | 11/2002 | Allport | 379/48 |
| 6,490,525 | B2 | 12/2002 | Baron, Sr. et al. | |
| 6,493,633 | B2 | 12/2002 | Baron, Sr. et al. | |
| 6,580,916 | B1 | 6/2003 | Weisshaar et al. | |
| 6,650,902 | B1 | 11/2003 | Richton | |
| 6,683,526 | B2 | 1/2004 | Bellin | |
| 6,721,542 | B1 | 4/2004 | Anttila et al. | |
| 6,745,021 | B1 | 6/2004 | Stevens | |
| 6,751,455 | B1 | 6/2004 | Acampora | |
| 6,753,784 | B1 | 6/2004 | Sznaider et al. | |
| 6,766,163 | B1 | 7/2004 | Sharma | |
| 6,785,551 | B1 | 8/2004 | Richard | |
| 6,867,688 | B2 | 3/2005 | Lamb | |
| 6,882,837 | B2 | 4/2005 | Fernandez et al. | |
| 6,947,754 | B2 | 9/2005 | Ogasawara | |
| 2002/0095333 | A1 | 7/2002 | Jokinen et al. | |
| 2002/0107016 | A1 | 8/2002 | Hanley | |
| 2002/0124252 | A1 | 9/2002 | Schafer et al. | |
| 2003/0026240 | A1 | 2/2003 | Eyuboglu et al. | |
| 2003/0134622 | A1 | 7/2003 | Hsu et al. | |
| 2003/0134651 | A1 | 7/2003 | Hsu | |
| 2003/0137415 | A1 | 7/2003 | Thomson | |
| 2003/0145064 | A1 | 7/2003 | Hsu et al. | |
| 2003/0197615 | A1 | 10/2003 | Roche et al. | |
| 2004/0103158 | A1 * | 5/2004 | Vella et al. | 709/206 |
| 2004/0150518 | A1 | 8/2004 | Phillips et al. | |
| 2004/0152493 | A1 | 8/2004 | Phillips et al. | |
| 2004/0192258 | A1 * | 9/2004 | Atkin et al. | 455/412.1 |
| 2004/0247086 | A1 | 12/2004 | Menard et al. | |
| 2005/0013417 | A1 * | 1/2005 | Zimmers et al. | 379/37 |
| 2005/0030977 | A1 | 2/2005 | Casey et al. | |
| 2005/0096065 | A1 | 5/2005 | Fleischman | |
| 2005/0162267 | A1 | 7/2005 | Khandelwal et al. | |
| 2005/0261012 | A1 | 11/2005 | Weiser | |

FOREIGN PATENT DOCUMENTS

| | | |
|----|------------|---------|
| EP | 1071296 | 1/2001 |
| EP | 1515512 | 3/2005 |
| JP | 09098140 | 4/1997 |
| JP | 10336127 | 12/1998 |
| JP | 441719 | 9/1999 |
| JP | 2000165826 | 6/2000 |
| JP | 441720 | 8/2000 |
| JP | 2000244427 | 9/2000 |
| WO | 9605678 | 2/1996 |
| WO | 9849661 | 11/1998 |
| WO | 0030379 | 5/2000 |
| WO | 0145061 | 6/2001 |
| WO | 0157724 | 8/2001 |
| WO | 0189150 | 11/2001 |
| WO | 03071392 | 8/2003 |
| WO | 03077063 | 9/2003 |
| WO | 2005079421 | 9/2005 |

OTHER PUBLICATIONS

Bharat Sanchar Nigam Limited, "Value Added Services in GSM", Engineering Instruction, May 4, 2005; <http://www.bsnl.co.in/service/mobile voice based service.htm>.

British Parliament Debates CellAlert Service for the UK, May 13, 2003, www.ceasa.us/news.htm.

Canadian Contract No. 5007441, Jul. 23, 2003; <http://72.14.203.104/search?q=cache:piSqEswBv74J:strategis.ic.gc.ca/epic/internet/inet-tid>.

Canadians want Emergency-Location Services, by Dave Ebner, Apr. 11, 2003, www.ceasa.us/news.htm.

CEASa, Cell Alert System Via Cell Broadcast, Wood, Sep. 2005, www.eglobalconf.net/speeches/MarkWood.ppt.

CEASa; News and Events, "News", Jan. 14, 2005-Jun. 2005, <http://www.ceasa-international.org/news.html>.

CEASa, "Text Message Broadcasts Could Provide Disaster Alerts" Jul. 28, 2005, <http://ceasa-international.com/usa/index2.php?option=comcontent&task=view&id=1&Ite>.

CEASa International, "Public Warnings Via Cell Broadcast". Wood and Weiser, May 24, 2005, <http://www.ceasa-int.org>.

CEASa International, "Welcome to CEASa USA", Ceasa Admin, Jun. 12, 2004, <http://ceasa-international.com>.

Cellular Emergency Alert Services Association, Feb. 21, 2003, CellAlert Services Corporate Structure, www.ceasa.us/news.htm.

Chinese Office Action (p. 1 with cited reference EP 1032148), Oct. 23, 2009.

CSEC "wireless Implementation & Maintenance, Service Notification & Testing Notification Policies and Procedures", Apr. 19, 2002, http://www.911.state.tx.us/files/pdfs/resources/call_take.xls.

Deaf Today, Disability Group Backs Cingular/AWS Merger, Silva, Jun. 4, 2004, <http://www.deaftoday.com/news/archives/004848.html>.

Engadget, "Dutch Testing Geo-Targeted SMS Emergency Broadcast System", Ricker, Oct. 8, 2005, <http://engadget.com/entry/12340005900692252>.

ETSI TS 123.246, Universal Mobile Telecommunications Systems (UMTS); Multimedia Broadcast/Multicast Service (MBMS); Architecture and functional description (3GPP TS 23.246 version 6.6.0 Release 6) (Mar. 2005).

Global Amateur Radio Emergency Communications Conference, Tampere, Finland, Jun. 13-15, 2005, "What is 'Cell Broadcasting' and Why do I care, as a HAM?", Wood, www.rientalo.fi/oh3ag/garec/documents/Cellalert.ppt.

International Search Report, date of mailing Jul. 17, 2006 received from the International Searching Authority.

International Telecommunication Union, "Cell Broadcast Broker System" M. Wood, Cell Alert Services Corp., Feb. 18, 2003, <http://www.itu.int/itudoc/itu-t/workshop/ets/isd3-001.html>.

Messaging Network, Bercut Limited, "Broadcast for the Masses", Sergey Ermilov, Mar. 2, 2005, <http://www.bercut.biz>.

MobileN.com Perspective, "Cell Broadcasting Technical Primer", Wood, Sep. 2005, http://www.mobilen.com/Perspectives/Authors/CB_Primer.htm.

MobileN.com Perspective, "History and Importance of Cell Broadcast", Wood, Sep. 2005, http://www.mobilen.com/Perspectives/Authors/CB_HistoryImportance.htm.

News from Senator John Edwards, North Carolina, Apr. 3, 2003, Senate Okays Edwards Emergency Warning Bill, www.ceasa.us/news.htm.

Newscientist.com, "Text Message Broadcasts Could Provide Disaster Alerts", Jan. 6, 2005, <http://www.newscientist.com/article.ns?id=dn6852>.

OCG-EMTEL Archives, "Cell Broadcast Public Demonstration in USA Successful", Wood, Sep. 19, 2004, http://list.etsi.fr/scripts/wa.exe?A2=ind0409&L=ocg_emtel&T=O&F=&S=&P=693.

RCR, Cell-Broadcast Service Gets Second Look, Jeffrey Silva, Nov. 10, 2003, www.ceasa.us/news.htm.

Recommendation 12 (WTDC-02), The World Telecommunication Development Conference (Instabul 2002).

SMS News, "Text Message Broadcasts Could Provide Disaster Alerts", Jan. 7, 2005, <http://www.sendsmsnow.com/newspage.php?id=44>.

Stanford Univeristy, EE179 Introduction to Communications, Professor Andrea Goldsmith, Winter 2005, <http://www.stanford.edu/class/ee179>.

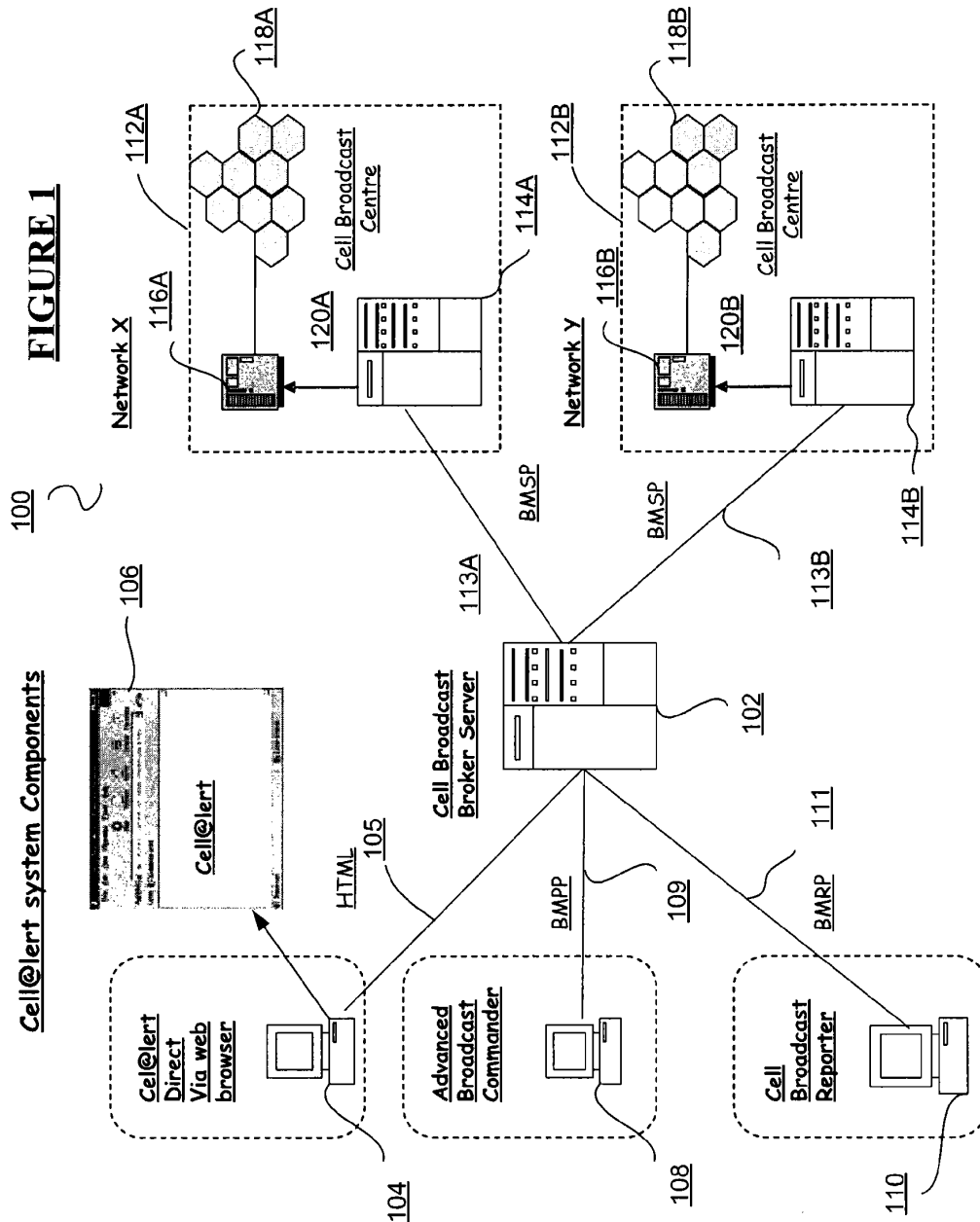
TeliaSonera, "Mobile Broadcast/Multicast Service (MBMS)", MediaLab, Aug. 2004, www.medialab.sonera.fi.

Text Message Warns of "killer flu" hot spots, Apr. 20, 2003, www.ceasa.us/news.htm.

The Cellular Emergency Alert Services Association Policy Statement, Aug. 5, 2002, <http://www.ceasa.us/news.htm>.

The Wall Street Journal Online, Local Governments Look to
Cellphone-Based Alerts, Carl Bialik, Jun. 12, 2003, [www.ceasa.us/
news.htm](http://www.ceasa.us/news.htm).

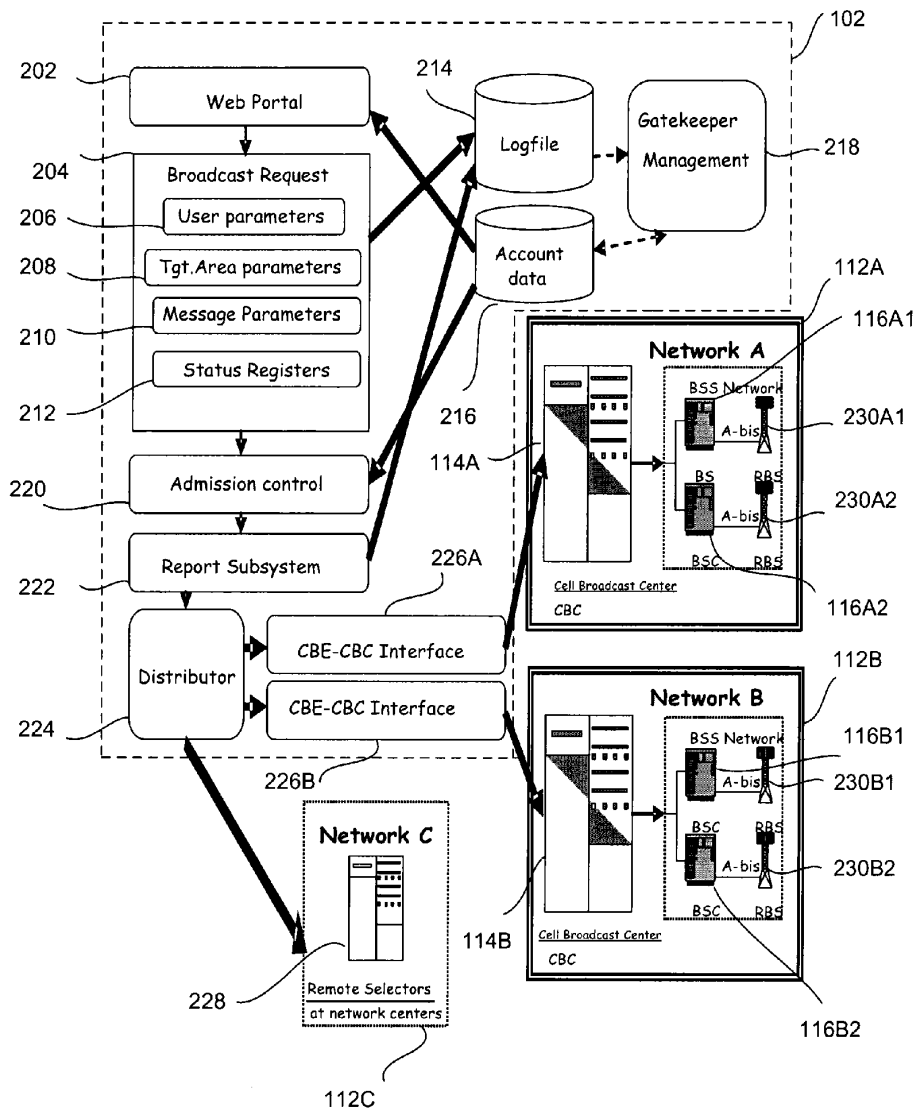
* cited by examiner



200

FIGURE 2

Cell Broadcast Broker V2. (CBE)



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.