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Weiser et al.

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(54) **MESSAGE BROADCASTING CONTROL SYSTEM AND METHOD**

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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
(Continued)

(73) Assignee: **Envisionit, LLC**, St. Charles, MO (US)

FOREIGN PATENT DOCUMENTS
EP 0915598 A2 12/1999
(Continued)

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This patent is subject to a terminal disclaimer.

OTHER PUBLICATIONS

3rd Generation Partnership Project TS 23.246, Release 6, Aug. 2004.
(Continued)

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(74) *Attorney, Agent, or Firm* — Polster, Lieder, Woodruff & Lucchesi, LC

(65) **Prior Publication Data**

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(57) **ABSTRACT**

Related U.S. Application Data

(63) Continuation of application No. 11/602,461, filed on Nov. 20, 2006, now Pat. No. 7,693,938.

(60) Provisional application No. 60/739,819, filed on Nov. 23, 2005.

A system and method of broadcast messaging for providing a broadcast message to a broadcast target area including a broadcast admission control module receiving the broadcast message, a defined broadcast target area, and a broadcast message originator identifier. The broadcast admission control module validating the broadcast message record as a function one or more of the broadcast message originator identifier, the broadcast target area, and a broadcast message transmission network parameter associated with a broadcast transmission network adapted for broadcasting the message to at least a portion of the broadcast target area. The broadcast admission control module generating a validated broadcast message record as a function of the validating. The system also includes a broadcast message distributor module receiving the validated broadcast message record and transmitting the broadcast message and the broadcast target area, or a part thereof, to an output interface distributing the broadcast message to at least a portion of the broadcast target area.

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

(52) **U.S. Cl.** **709/203; 709/217; 709/227**

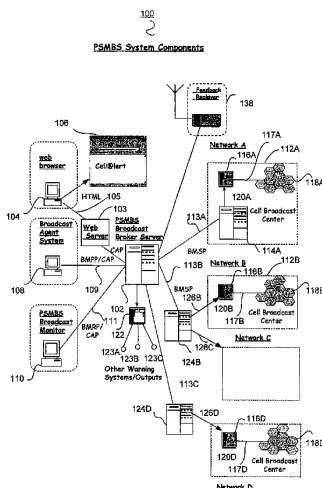
(58) **Field of Classification Search** **709/200–203, 709/217–227, 228; 455/404.1, 404.2, 466**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

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

30 Claims, 15 Drawing Sheets



U.S. PATENT DOCUMENTS

6,169,476	B1	1/2001	Flanagan	
6,219,696	B1	4/2001	Wynblatt et al.	
6,240,360	B1	5/2001	Phelan	
6,255,953	B1*	7/2001	Barber	340/601
6,278,375	B1*	8/2001	Hucker	340/601
6,329,904	B1*	12/2001	Lamb	340/286.02
6,346,890	B1	2/2002	Bellin	
6,463,273	B1	10/2002	Day	
6,480,578	B1	11/2002	Allport	
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.	
6,617,964	B1*	9/2003	Lamb	340/286.02
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	
7,039,386	B2*	5/2006	Kolsrud	455/404.1
7,130,610	B2*	10/2006	Dolezal et al.	455/404.1
7,180,415	B2*	2/2007	Bankert et al.	340/539.17
7,224,957	B2*	5/2007	Spector	455/404.2
7,339,467	B2*	3/2008	Lamb	340/539.1
7,616,942	B2*	11/2009	Karl et al.	455/404.1
7,693,938	B2*	4/2010	Weiser et al.	709/203
2002/0095333	A1	7/2002	Jokinen et al.	
2002/0107016	A1	8/2002	Hanley	
2002/0124252	A1	9/2002	Schaefer 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.	
2004/0150518	A1	8/2004	Phillips et al.	
2004/0152493	A1	8/2004	Phillips et al.	
2004/0247086	A1	12/2004	Menard et al.	
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	1032148	A2	8/2000
EP	1071296	A1	1/2001
EP	1515512	A2	3/2005
JP	09/098140		8/1997
JP	441719		9/1999
JP	10336127		12/1999
JP	2000165826		6/2000
JP	441720		8/2000
JP	2000244427		9/2000
WO	98/49661		11/1998
WO	96/05678	A1	2/1999
WO	00/30379		5/2000
WO	01/45061	A2	6/2001
WO	01/57724	A1	8/2001
WO	01/89150	A2	11/2001
WO	03/071392	A2	8/2003
WO	03/077063		9/2003
WO	2005/079421	A2	9/2005

OTHER PUBLICATIONS

Bharat Sanchar Nigam Limited, "Value Added Services in GSM", Engineering Instruction, May 4, 2005; available at http://www.bsnl.co.in/service/mobile_voice_based_service.htm.
 British Parliament Debates CellAlert Service for the UK, May 1, 2003, may be seen at 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-td>.

Canadians want Emergency-Location Services, by Dave Ebner, Apr. 11, 2003, may be seen at www.ceasa.us/news.htm.
 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/usa/index2.php?option=comcontent&task=view&id=1&Ite>.
 CEASA, Cell Alert System Via Cell Broadcast, Wood, Sep. 2005, www.eglobalconf.net/speeches/MarkWood.ppt.
 CEASA, "Text Message broadcasts could provide disaster Alerts" Jul. 28, 2005, available at: <http://ceasa-international.com/usa/index2.php?option=comcontent&task=view&id=1&Ite>.
 CEASA; News and Events, "News", Jan. 14, 2005-Jun. 2005, <http://www.ceasa-international.org/news.html>.
 Cellular Emergency Alert Services Association, Feb. 21, 2003, CellAlert Services Corporate Structure, may be seen at www.ceasa.us/news.htm.
 CSEC "Wireless Implementation & Maintenance, Service Notification & Testing Notification Policies and Procedures", Apr. 19, 2002, available at: http://www.911.state.tx.us/files/pdfs/resources/call_take.xls.
 Deaf Today, Disability Group Backs Cingular/AWS Merger, Silva, Jun. 4, 2004, available at: <http://www.deaftoday.com/newsarchives/004848.html>.
 Engadget, "Dutch Testing Geo-Targeted SMS Emergency Broadcast System", Ricker, Oct. 8, 2005, <http://www.engadget.com/entry/1234000590062252>.
 ETSI TS 123.246, Universal Mobile Telecommunications System (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. 13-14, 2005, What is 'Cell Broadcasting' and Why do I care, as a HAM?, Wood, www.rientola.fi/oh3ag/garec/documents/Cellalert.ppt.
 International Search Report mailed Jul. 17, 2006 from the International Bureau.
 International Telecommunication Union, "Cell Broadcast Broker System" M. Wood, Cell Alert Services Corp., Feb. 18, 2003, available at: <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, available at: <http://www.bercut.biz>.
 MobileIN.com Perspective, "Cell Broadcasting Technical Primer", Wood, Sep. 2005, available at: http://www.mobilein.com/Perspectives/Authors/CB_Primer.htm.
 MobileIN.com Perspective, "History and Importance of Cell Broadcast", Wood, Sep. 2005, available at: http://www.mobilein.com/Perspective/Authors/CB_HistoryImportance.htm.
 News from Senator John Edwards, North Carolina, Apr. 3, 2003, Senate Okays Edwards Emergency Warning Bill, may be seen at www.ceasa.us/news.htm.
 Newscientist.com, "Text Message Broadcasts Could Provide Disaster Alerts", Jan. 6, 2005, available at: <http://www.newscientist.com/article.ns?id=dn6852>.
 OCG-EMTEL Archives, "Cell Broadcast Public Demonstration in USA Successful", Wood, Sep. 19, 2004, available at: http://list.etsi.fr/scripts/wa.exe?A1=ind0409&L=ocg_emtel&T=O&F=&S=&P=693.
 RCR, Cell-Broadcast Service Gets Second Look, Jeffrey Silva, Nov. 10, 2003, May Be Seen At www.ceasa.us/news.htm.
 Recommendation 12 (WTDC-02), The World Telecommunication Development Conference (Istanbul 2002).
 SMS News, "Text Message Broadcasts Could Provide Disaster Alerts", Jan. 7, 2005, available at: <http://www.sendsmsnow.com/newspage.php?id=44>.
 Stanford University, EE179 Introduction to Communications, Professor Andrea Goldsmith, Winter 2005, available at: <http://www.stanford.edu/class/EE179>.
 TeliaSonera, "Mobile Broadcast/Multicast Service (MBMS)", MediaLab, Aug. 2004, available at: <http://www.medialab.sonera.fi>.
 Text message warns of 'killer flu' hot spots, Apr. 20, 2003, may be seen at www.ceasa.us/news.htm.

US 8,103,719 B2

Page 3

The Cellular-Emergency Alert Services Association Policy Statement, Aug. 5, 2002, may be seen at www.ceasa.us/news.htm.

The Wall Street Journal Online, Local Governments Look at Cellphone-based Alerts, Carl Bialik, Jun. 12, 2003, may be seen at www.ceasa.us/news/htm.

Chinese Search Report, date of receipt Nov. 9, 2009.

Foreign Associate letter of Notification of the First Office Action dated Oct. 12, 2010 from State Intellectual Property Office of the People's Republic of China; Application Serial No. 200680051671.4 (letter dated Nov. 2, 2010).

* cited by examiner

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PSMBS System Components

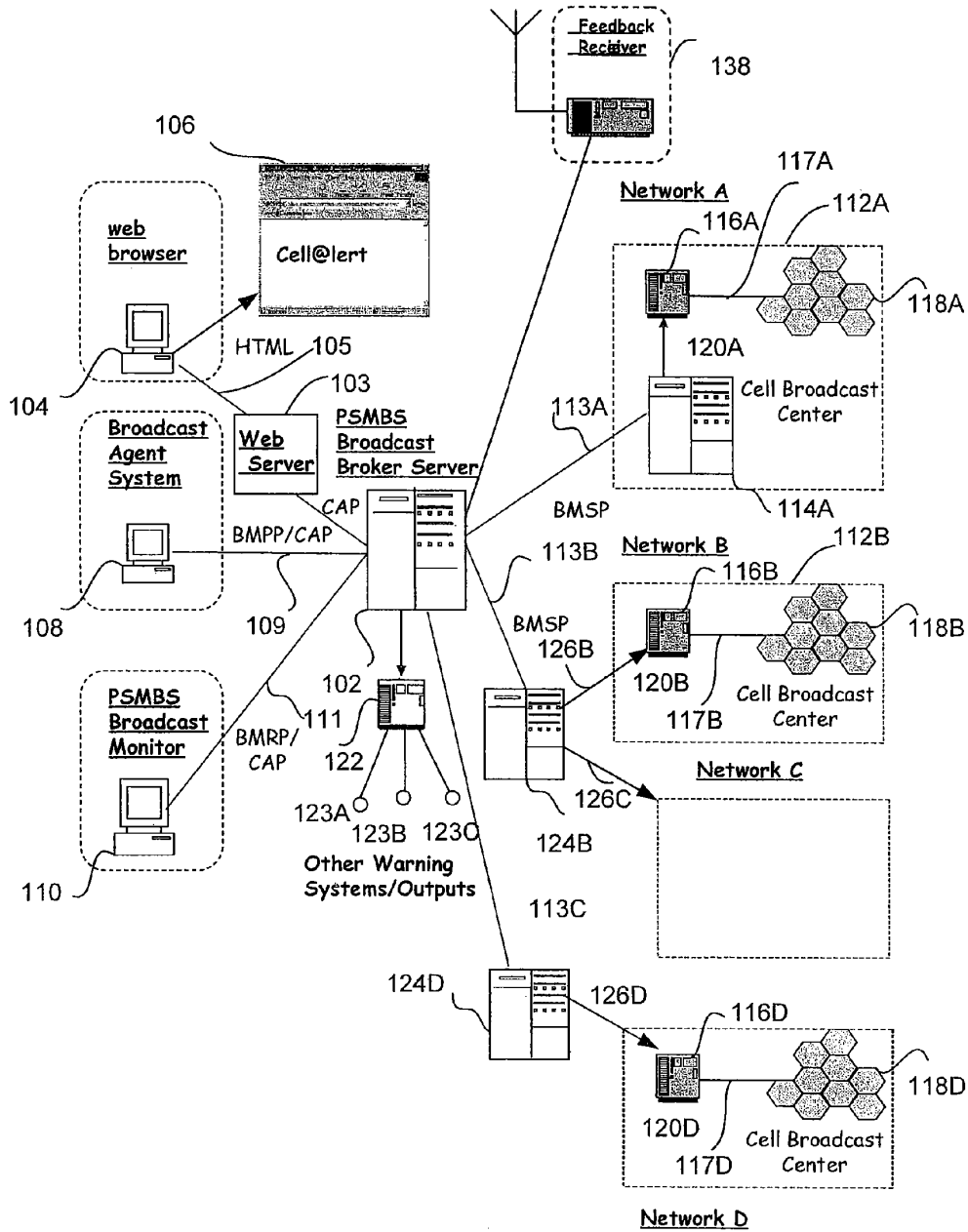


FIG. 1

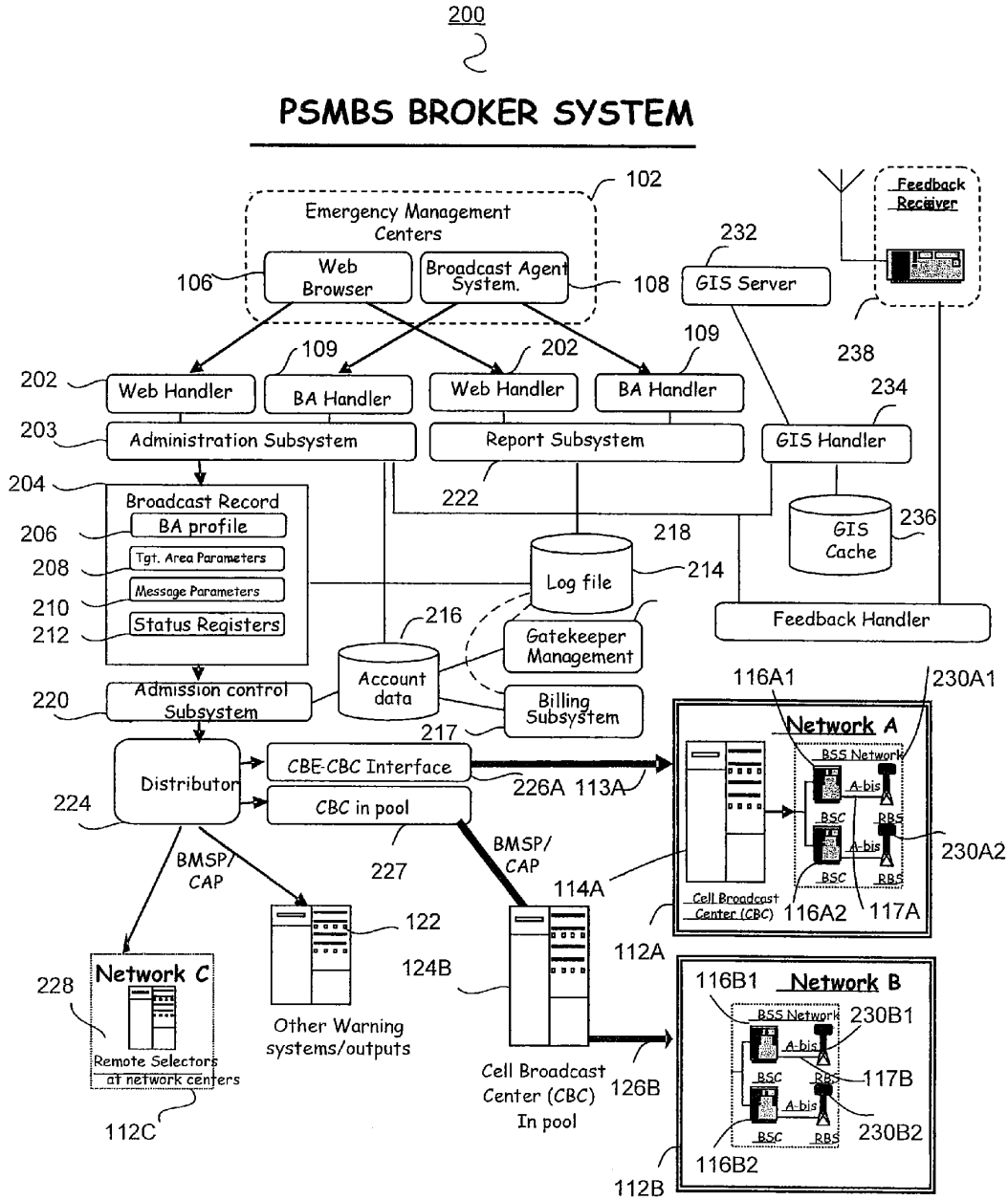


FIG. 2

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