



US008868639B2

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

(10) **Patent No.:** **US 8,868,639 B2**
(45) **Date of Patent:** **Oct. 21, 2014**

- (54) **CONTENT BROKER ASSISTING DISTRIBUTION OF CONTENT**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **13/791,413**
(22) Filed: **Mar. 8, 2013**

(65) **Prior Publication Data**
US 2013/0238777 A1 Sep. 12, 2013

Related U.S. Application Data
(60) Provisional application No. 61/609,274, filed on Mar. 10, 2012.

(51) **Int. Cl.**
G06F 15/16 (2006.01)
G06F 15/173 (2006.01)
H04L 29/08 (2006.01)
(52) **U.S. Cl.**
CPC **H04L 67/10** (2013.01); **H04L 67/2809** (2013.01); **H04L 67/1097** (2013.01); **H04L 67/26** (2013.01); **H04L 67/306** (2013.01)
USPC **709/202**; **709/217**; **709/241**; **705/14.53**

(58) **Field of Classification Search**
USPC **709/202**, **207**, **217**, **228**, **229**, **238**, **239**, **709/241**, **244**; **705/14.53**
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

7,013,285 B1	3/2006	Rebane
7,254,608 B2	8/2007	Yeager et al.
7,420,956 B2	9/2008	Karaoguz et al.
7,587,323 B2	9/2009	Matz et al.

(Continued)

FOREIGN PATENT DOCUMENTS

FR WO 2011/073586 6/2011

OTHER PUBLICATIONS

Elina Vartiainen et al., "Auto-update", Proceedings of the 4th International Conference on Mobile Technology Applications, and Systems and the 1st International Symposium on Computer Human Interaction in Mobile Technology, Mobility '07, Jan. 1, 2007, p. 683, XP055022065, New York, New York, USA.

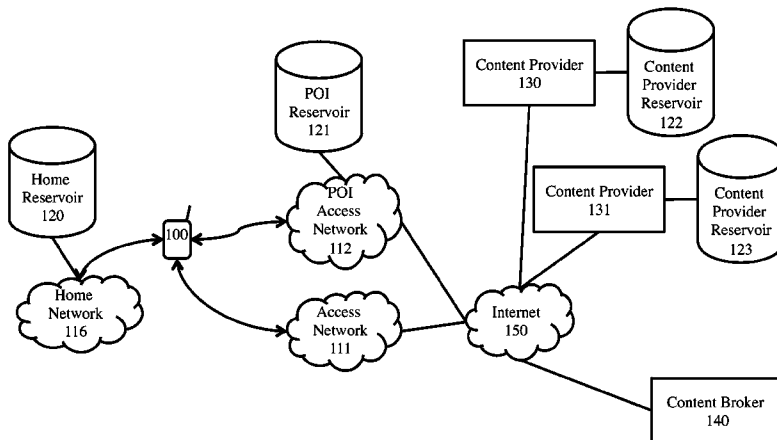
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(57) **ABSTRACT**

Embodiments of methods, systems and apparatuses for a content broker assisting distribution of content, are disclosed. One method includes obtaining, by one or more content distribution servers, at least one of user device parameter information or storage element parameter information of a user device and one or more storage elements associated with the user device, and assisting, by the one or more content distribution servers, at least one content provider in preloading at least a portion of a content onto at least one of the one or more storage elements associated with the user device based on the at least one of the user device parameter information or the storage element parameter information.

29 Claims, 34 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,630,986 B1 12/2009 Herz et al.
 7,661,116 B2 2/2010 Slaney et al.
 7,797,722 B2 9/2010 Lin et al.
 7,933,802 B2 4/2011 Plow et al.
 7,941,516 B2 5/2011 Wong et al.
 8,027,865 B2 9/2011 Gilbert
 8,027,879 B2 9/2011 Ramer et al.
 8,036,690 B1* 10/2011 Delker et al. 455/512
 8,051,420 B2 11/2011 Rolia et al.
 8,051,444 B2 11/2011 Shkedi
 8,132,202 B2 3/2012 Swix et al.
 8,250,600 B2 8/2012 Kodialam et al.
 8,260,665 B2 9/2012 Foladare et al.
 8,429,702 B2 4/2013 Yasrebi et al.
 2002/0021809 A1* 2/2002 Salo et al. 380/239
 2002/0116258 A1 8/2002 Stamatelatos et al.
 2003/0041050 A1 2/2003 Smith et al.
 2003/0154128 A1 8/2003 Liga et al.
 2005/0182727 A1* 8/2005 Robert et al. 705/51
 2006/0020960 A1 1/2006 Relan et al.
 2006/0037037 A1 2/2006 Miranz
 2006/0041480 A1 2/2006 Briggs
 2006/0129766 A1* 6/2006 Cassia et al. 711/137
 2006/0242267 A1 10/2006 Grossman
 2006/0277271 A1 12/2006 Morse et al.
 2007/0061265 A1 3/2007 Hovnanian et al.
 2007/0130589 A1* 6/2007 Davis et al. 725/62
 2007/0179854 A1 8/2007 Ziv et al.
 2007/0249387 A1* 10/2007 Doradla et al. 455/552.1
 2007/0260673 A1* 11/2007 Shenfield et al. 709/203
 2008/0086750 A1* 4/2008 Yasrebi et al. 725/86
 2008/0108342 A1 5/2008 Pomerantz
 2008/0109842 A1 5/2008 Wachtfogel et al.
 2008/0167943 A1 7/2008 O'Neil et al.
 2008/0215475 A1 9/2008 Ramer et al.

2008/0288328 A1 11/2008 Minor et al.
 2009/0012847 A1 1/2009 Brooks et al.
 2009/0048914 A1 2/2009 Shenfield et al.
 2009/0055256 A1* 2/2009 Donahue et al. 705/14
 2009/0125321 A1 5/2009 Charlebois et al.
 2009/0172217 A1 7/2009 Nochimowski et al.
 2009/0183215 A1 7/2009 McCartie et al.
 2009/0198580 A1 8/2009 Broberg et al.
 2009/0210290 A1 8/2009 Elliott et al.
 2009/0210477 A1 8/2009 White et al.
 2009/0240569 A1 9/2009 Ramer et al.
 2009/0307055 A1 12/2009 Karty
 2010/0049603 A1 2/2010 Peterson et al.
 2010/0049608 A1* 2/2010 Grossman 705/14.55
 2010/0114668 A1 5/2010 Klein et al.
 2010/0169502 A1 7/2010 Knowlson et al.
 2010/0205628 A1 8/2010 Davis et al.
 2010/0235891 A1* 9/2010 Oglesbee et al. 726/5
 2010/0293049 A1 11/2010 Maher et al.
 2010/0325666 A1* 12/2010 Wiser et al. 725/44
 2011/0041153 A1 2/2011 Simon et al.
 2011/0065424 A1 3/2011 Estevez et al.
 2011/0072110 A1 3/2011 Sivasubramanian et al.
 2011/0119201 A1 5/2011 Zimmerman, Jr. et al.
 2011/0191141 A1 8/2011 Thompson et al.
 2011/0197056 A1 8/2011 Chen
 2012/0047201 A1* 2/2012 Jain 709/203
 2013/0138508 A1* 5/2013 Gee 705/14.58

OTHER PUBLICATIONS

PCT, Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, of the Declaration, International Application No. PCT/US2013/030046, International Filing Date Mar. 8, 2013, Date of Mailing Jul. 1, 2013.

* cited by examiner

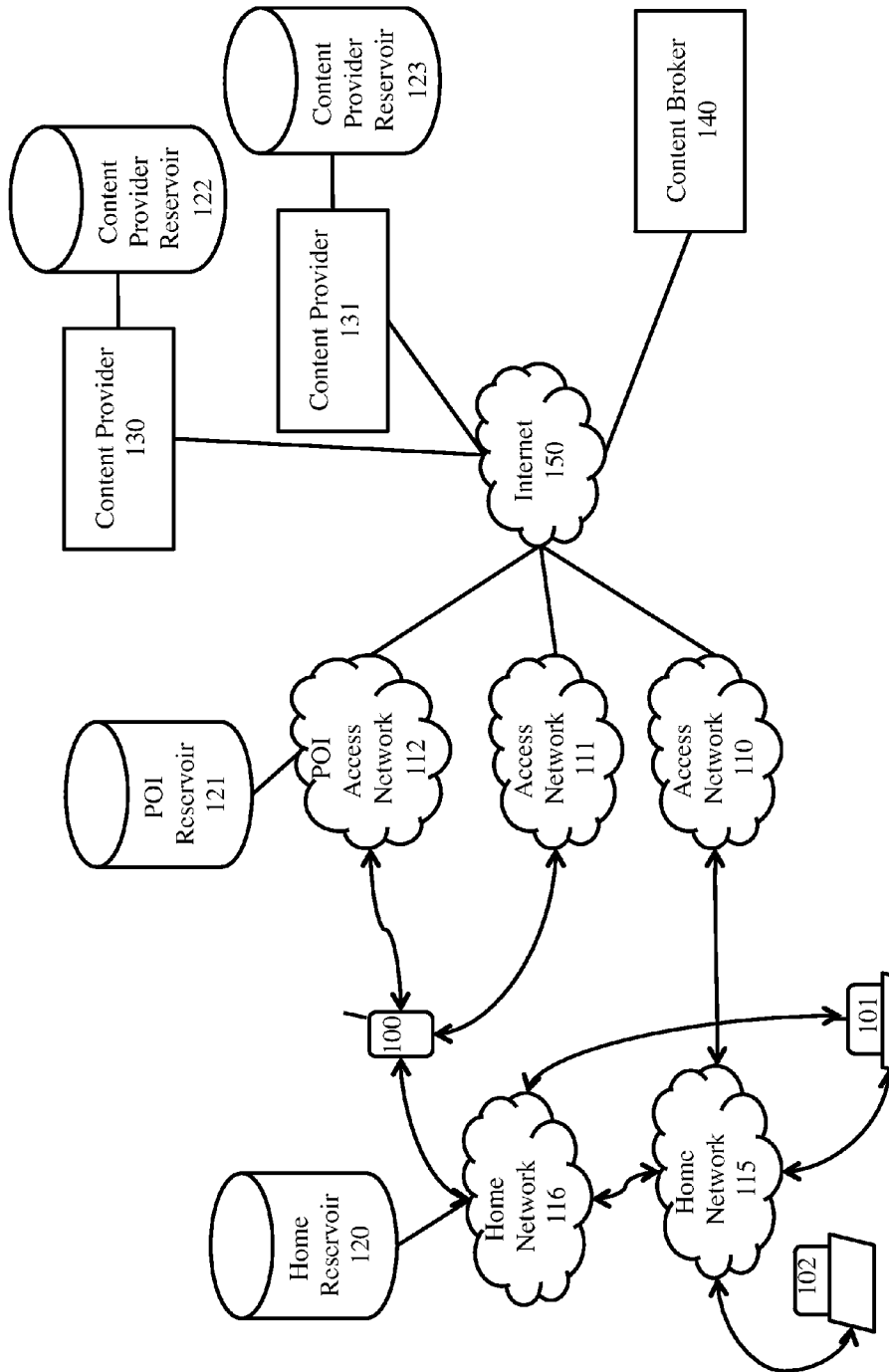


FIG. 1

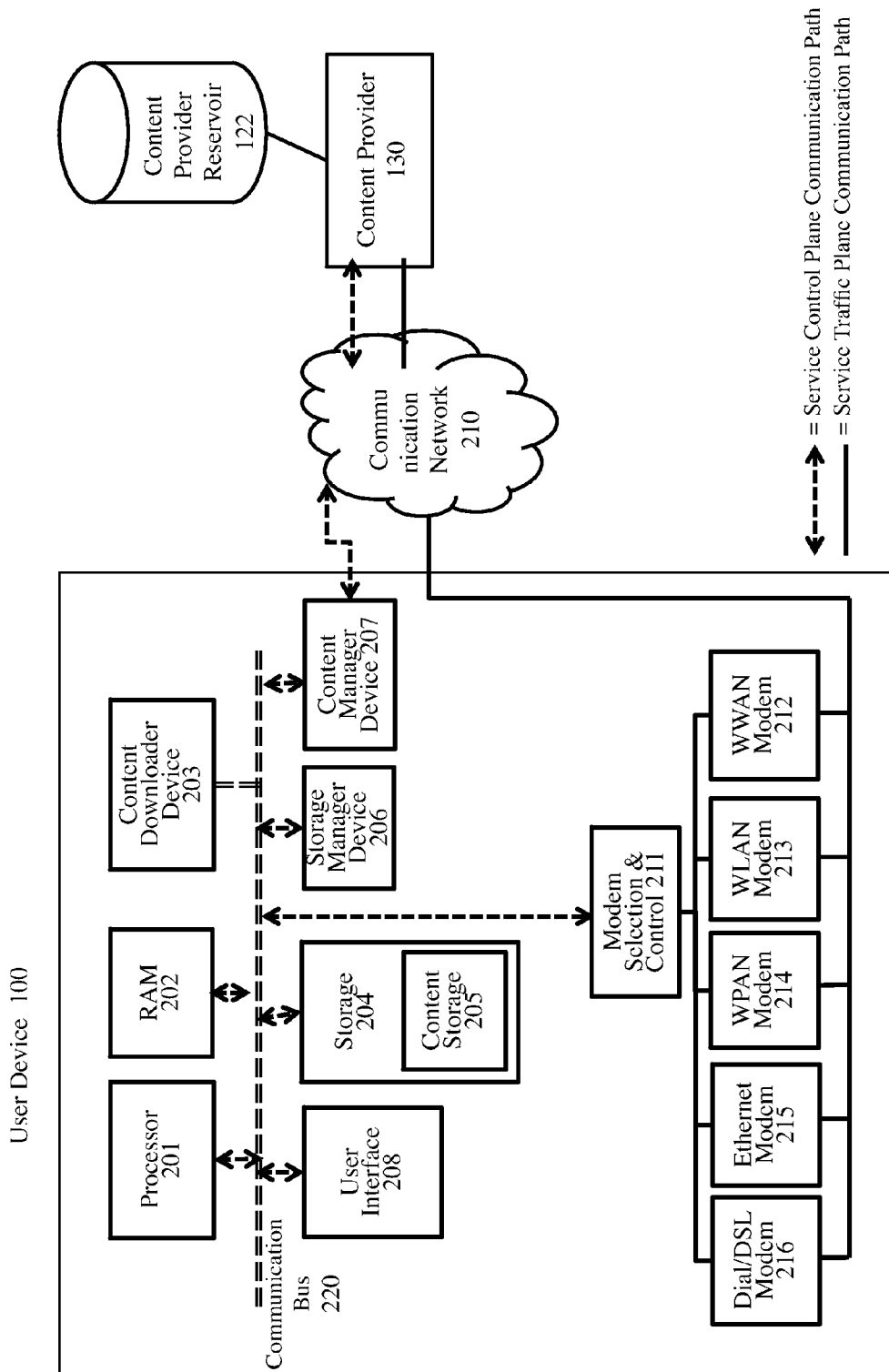


FIG. 2

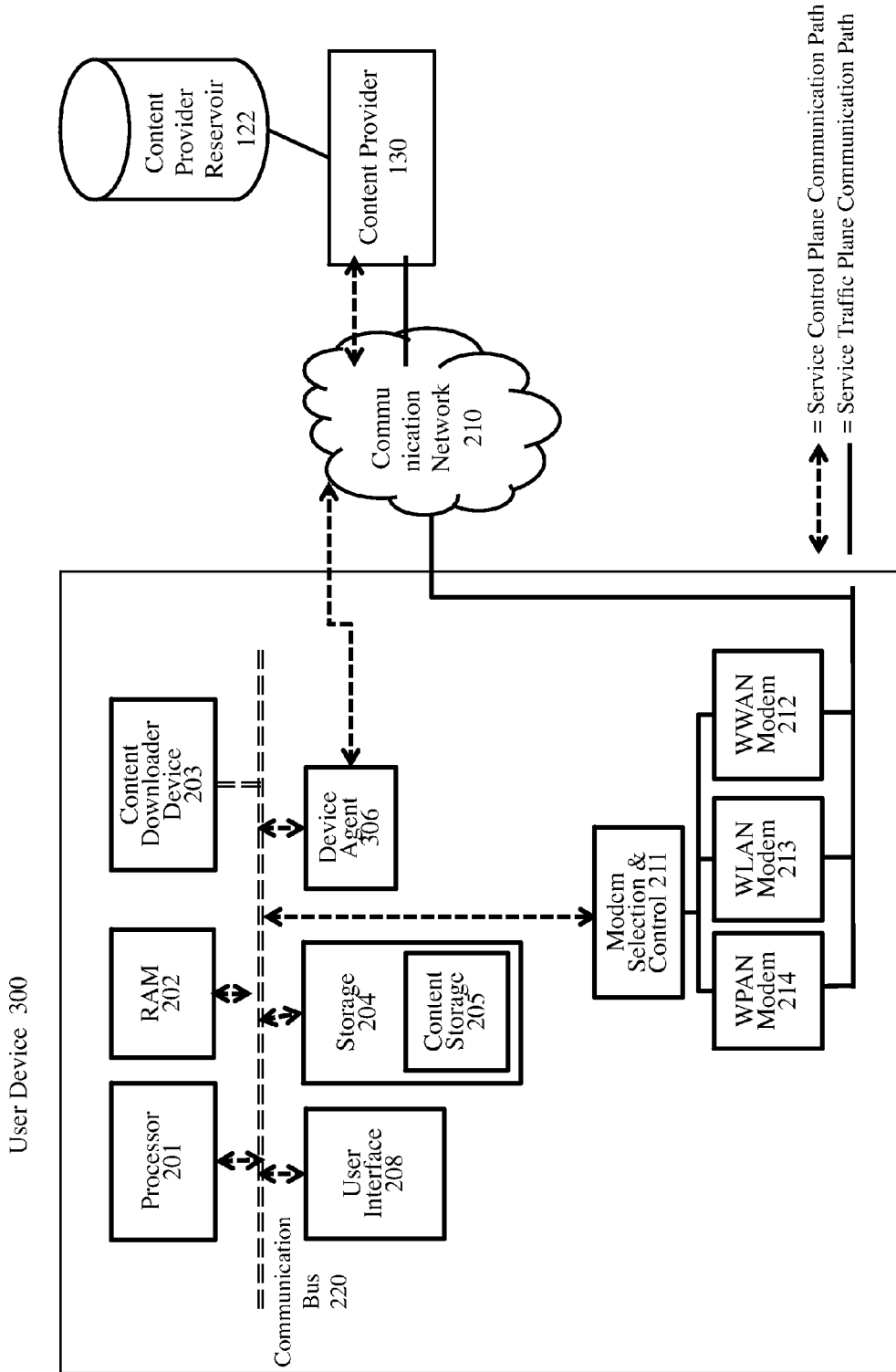


FIG. 3

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