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(12) United States Patent Chou

(54) SYSTEM AND METHOD FOR COMMUNICATING WITH FIXED AND MOBILE SUBSCRIBER STATIONS IN BROADBAND WIRELESS ACCESS

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patent is extended or adjusted under 35 U.S.C. 154(b) by 1596 days.

(21) Appl. No.: 11/222,675

NETWORKS

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(45) Date of Patent:

References Cited U.S. PATENT DOCUMENTS

6,404,754	B1*	6/2002	Lim 370/338
7,437,157	B1 *	10/2008	Satapathy 455/435.1
2003/0076837	A1*	4/2003	Whitehill et al 370/395.4
2004/0018839	A1*	1/2004	Andric et al 455/433
2004/0233838	A1*	11/2004	Sudo et al 370/208
2005/0068915	A1*	3/2005	Atad et al 370/316
2005/0201304	A1*	9/2005	Olshansky 370/282
2005/0250498	A1*	11/2005	Lim et al 455/436
2005/0286451	A1*	12/2005	Kim et al 370/310
2006/0030322	A1*	2/2006	Kim et al 455/436
2006/0034397	A1*	2/2006	Lee et al 375/340
2007/0025390	A1*	2/2007	Jain 370/458

FOREIGN PATENT DOCUMENTS

WO WO-2006/083897 A2 8/2006

OTHER PUBLICATIONS

"IEEE Standard 802.16aTM—IEEE Standard for Local and Metropolitan Area Networks, Part 16: Air Interface for Fixed Broadband Wireless Access Systems—Amendment 2: Medium Access Control Modifications and Additional Physical Layer Specifications for 2-11 GHz", *IEEE Std. 802.16a*TM—2003, The Institute Electrical and Electronics Engineers, Inc., New York, NY, (2003), 318 pgs.

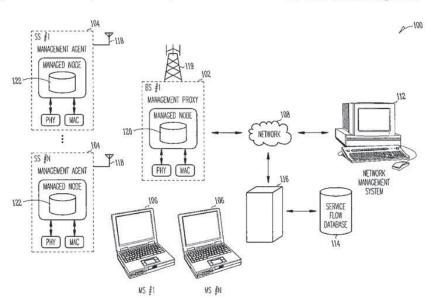
(Continued)

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(57) ABSTRACT

Embodiments of System and Method for Communicating within Broadband Wireless Networks are generally described herein. Other embodiments may be described and claimed.

21 Claims, 7 Drawing Sheets





(56) References Cited

OTHER PUBLICATIONS

"IEEE Standard 802.16eTM—IEEE Standard for Local and Metropolitan Area Networks, Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems, Amendment 2: Physical and Medium Access Control Layers for Combined Fixed and Mobile Operation in Licensed Bands and Corrigendum 1", IEEE Std. 802.16eTM—2005 (Amendment and Corrigendum to IEEE 802.16—2004), The Institute of Electrical and Electronics Engineers, Inc., New York, NY, (2006), 864 pgs.

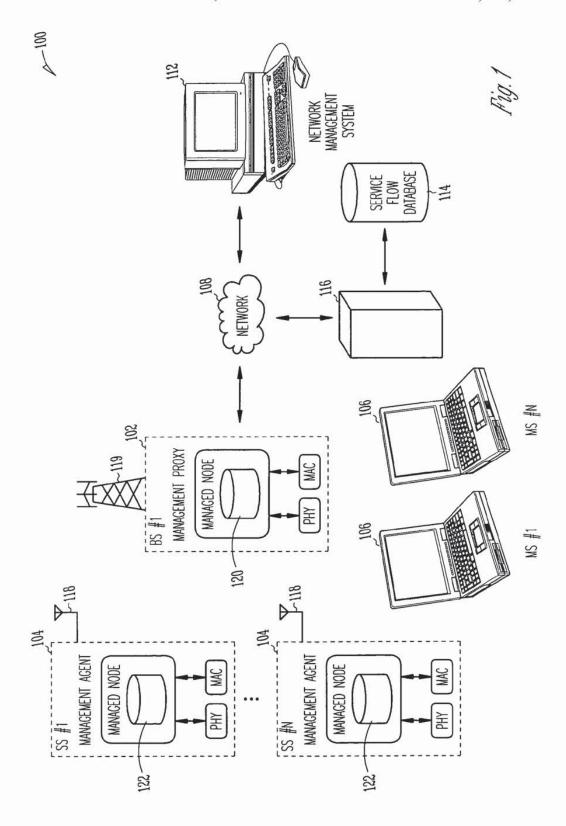
"IEEE Standard 802.16fTM—IEEE Standard for Local and Metropolitan Area Networks, Part 16: Air Interface for Fixed Broadband Wireless Access Systems—Amendment 1: Management Information Base", *IEEE Std. 802.16f*TM—2005, IEEE, New York, NY, (2005), 257 pgs.

Chou, J., et al., "MAC and PHY MIB for WirelessMAN and WirelessHuman BS and SS", (Jul. 9, 2004),1-120.

Liang, C., "Wireless awareness for wireless intelligent network", Communications, 2003, APCC 2003, 2, The 9th Asia-Pacific Conference, (Sep. 21.2003), 561-564.

* cited by examiner



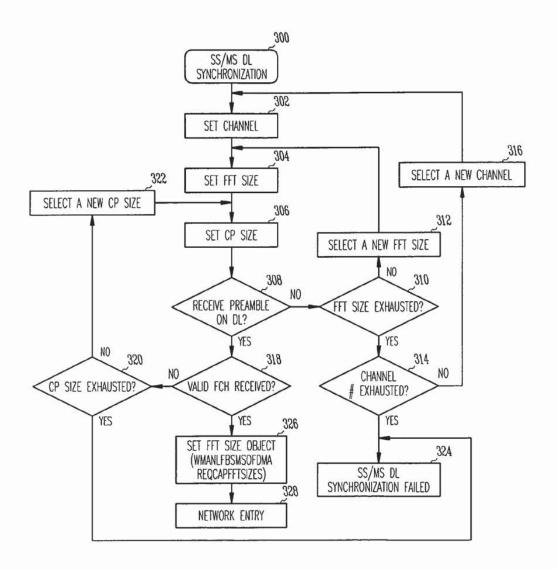




IFTABLE	IFINDEX	IFTYPE(IANA)	IFDESCR	IFPHYSADORESS	IFADMINSTATUS	IFOPERSTATUS
BS SECTOR 1	-	PROPBWAP2MP	OFDM	MAC ADDRESS OF BS SECTOR	ADMINISTRATION STATUS	OPERATIONAL STATUS
BS SECTOR 2	2	PROPBWAP2MP	OFDMA 2048	MAC ADDRESS OF BS SECTOR	ADMINISTRATION STATUS	OPERATIONAL STATUS
BS SECTOR 3	3	PROPBWAP2MP	OFDMA 1024	MAC ADDRESS OF BS SECTOR	ADMINISTRATION STATUS	OPERATIONAL STATUS
BS SECTOR 4	4	PROPBWAP2MP	OFDMA 512	MAC ADDRESS OF BS SECTOR	ADMINISTRATION STATUS	OPERATIONAL STATUS
BS SECTOR 5	5	PROPBWAP2MP	OFDMA 128	MAC ADDRESS OF BS SECTOR	ADMINISTRATION STATUS	OPERATIONAL STATUS



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