

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
25 October 2007 (25.10.2007)

PCT

(10) International Publication Number  
**WO 2007/121027 A3**

(51) International Patent Classification:  
**H04J 3/22** (2006.01)

(21) International Application Number:  
PCT/US2007/064605

(22) International Filing Date: 22 March 2007 (22.03.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
11/379,107 18 April 2006 (18.04.2006) US

(71) Applicant (for all designated States except US): **CISCO TECHNOLOGY, INC.** [US/US]; Mail Stop Sjc 10/2/1, 170 W. Tasman Drive, San Jose, CA 95134 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **XU, Xiaode** [CN/US]; 39521 Platero Place, Fremont, CA 94539 (US).

(74) Agent: **ROSENFELD, Dov**; Inventek, 5507 College Avenue, Suite 2, Oakland, CA 94618 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

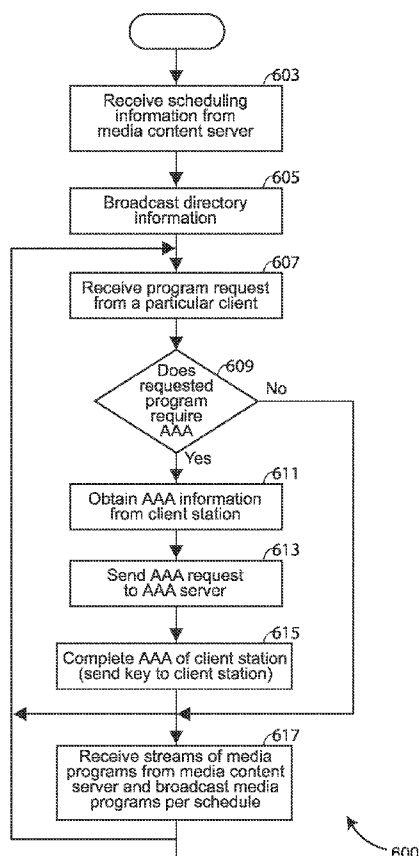
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**  
— with international search report

[Continued on next page]

(54) Title: MULTIPLE BROADCAST CHANNELS FOR WIRELESS NETWORKS

(57) Abstract: An access point of a wireless network broadcasts directory information including a schedule on a first broadcast channel about media programs being broadcast on other channels by the access point. The broadcast on the first channel provides for sleep- mode clients to receive the broadcast. A client receives the schedule, and in order to receive a particular media program at a scheduled time switches to a particular one of the other channels and to wakeup state to receive a particular program.



WO 2007/121027 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) **Date of publication of the international search report:**

28 February 2008

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/64605

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04J 3/22 (2007.10)

USPC - 370/468

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - H04J 3/22; H04B 1/16 (2007.10)

USPC - 370/468; 455/343.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MicroPatent

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category*      | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No.                                                                                         |
|----------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| X<br>----<br>Y | US 2005/0124213 A1 (SIMPSON et al) 09 June 2005 (09.06.2005) entire document       | 1-5, 7, 10-13, 18-22,<br>24-27, 29-31, 33, 35-37,<br>40-41<br>----<br>6, 8-9, 14-17, 23, 28, 32,<br>34, 38-39 |
| Y              | US 2002/0059623 A1 (RODRIGUEZ et al) 16 May 2002 (16.05.2002) entire document      | 6, 8-9, 14-17, 23, 28, 32,<br>34, 38-39                                                                       |

☐ Further documents are listed in the continuation of Box C.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

08 November 2007

Date of mailing of the international search report

21 DEC 2007

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents

P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774