(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 18 November 2004 (18.11.2004)

PCT

(10) International Publication Number WO 2004/100526 A3

H04N 7/173 (51) International Patent Classification⁷:

(21) International Application Number:

PCT/US2004/006556

(22) International Filing Date: 3 March 2004 (03.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 10/386,152

11 March 2003 (11.03.2003)

(71) Applicant (for all designated States except US): SEDNA PATENT SERVICES, LLC [US/US]; 1500 Market Tower, 27th Floor, West Tower, Philadelphia, PA 19102 (US).

(72) Inventors; and

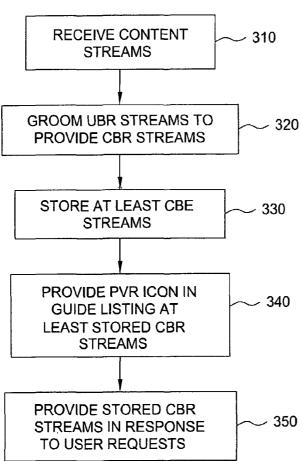
(75) Inventors/Applicants (for US only): BIRKS, David

[US/US]; 104 Bobbi's Terrace, New Egypt, NJ 08533 (US). LEIMER, Michael, E. [US/US]; 47131 Yucatan Drive, Fremont, CA 94539 (US).

- (74) Agents: MOSER, Raymond, R., Jr. et al.; Moser, Patterson & Sheridan, LLP, 595 Shrewsbury Avenue, Shrewsbury, NJ 07702 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, 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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: NETWORKED PERSONAL VIDEO RECORDER METHOD AND APPARATUS



(57) Abstract: A network personal video recorder (nPvR) supporting PVR functionality in a server-centric environment that further inserts an icon into an electronic program guide (EPG) indicative of on-demand availability to users of stored content.

300

WO 2004/100526 A3



GM, KE, LS, MW, MZ, 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, IT, LU, MC, 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

(88) Date of publication of the international search report: 24 February 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/06556

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : H04N 7/173 US CL : 725/134 A self-in to International Platest Classification (IPC) and a both potional algorification and IPC			
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) U.S.: 725/40-42, 51, 88, 89, 91-93, 114-117; 386/109-112			
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)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category * Citation of document, with indication, where a		Relevant to claim No.	
, , , , , , , , , , , , , , , , , , , ,	US 2002/0174438 A1 (CLEARY et al) 21 November 2002, paragraphs 25, 27, 33, 43, and 54-55.		
	US 2003/0005453 A1 (RODRIGUEZ et al) 02 January 2003, paragraph 98.		
Y US 2002/0087995 A1 (PEDLOW, Jr.) 04 July 200	US 2002/0087995 A1 (PEDLOW, Jr.) 04 July 2002, paragraph 8.		
	US 5,815,662 A (ONG) 29 September 1998, column 2, lines 19-27, column 3, lines 15-22,		
, , , , , , , , , , , , , , , , , , , ,	US 6,272,109 B1 (PEI et al) 07 August 2001, column 12, lines 65-67, column 13, lines 1- 4.		
		,	
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand		
"A" document defining the general state of the art which is not considered to be of particular relevance	the principle or theory underlying the		
"E" earlier application or patent published on or after the international filing date	"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		
"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)	"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		
"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	Date of mailing of the international search	h ranort	
Date of the actual completion of the international search	Date of mailing of the international search report 24 NOV 2004		
12 November 2004 (12.11.2004) Name and mailing address of the ISA/US Authorized officer			
Mail Stop PCT, Attn: ISA/US			
Commissioner for Faterits			
P.O. Box 1430 Alexandria, Virginia 22313-1450 Recsimile No. (703) 305-3230 Telephone No. 768-308-HELP			