

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 September 2007 (13.09.2007)

PCT

(10) International Publication Number
WO 2007/103154 A3

- (51) **International Patent Classification:**
H04N 5/91 (2006.01)
- (21) **International Application Number:**
PCT/US2007/005314
- (22) **International Filing Date:** 1 March 2007 (01.03.2007)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
60/778,596 1 March 2006 (01.03.2006) US
- (71) **Applicant (for all designated States except US):** **TIVO INC.** [US/US]; 2160 Gold Street, Alviso, CA 95002-2160 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **BARTON, James** [US/US]; 2160 Gold Street, Alviso, California 95002 (US). **BEACH, Brian** [US/US]; 4690 Stonebridge Court, Columbus, Indiana 47201 (US). **SCHMIDT, Margret** [US/US]; 2046 Stockbridge Avenue, Redwood City, California 94061 (US). **PONIATOWSKI, Robert F.** [US/US]; 1181 Old Oak Drive, San lose, California 95120 (US). **GLENNON, Shelly** [US/US]; 476 No. 16th Street, San lose, California 95112 (US).
- (74) **Agents:** **WONG, Kirk D.** et al.; Hickman Palermo Truong & Becker LLP, 2055 Gateway Place, Suite 550, San lose, California 951 10-1089 (US).

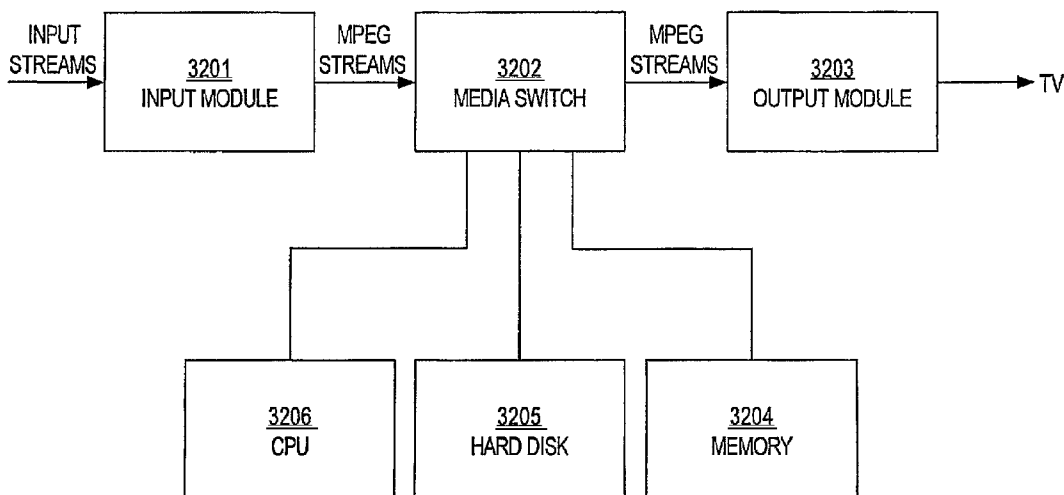
- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, 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
- 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:**
10 April 2008

(54) **Title:** CUSTOMIZING DVR FUNCTIONALITY



(57) **Abstract:** Techniques described herein enable parents to establish a child-protective "kids zone" on a DVR. According to one technique, a DVR receives, from a parent, identities of content items that the parent does not want children to view. The DVR maps the identities to a kids zone. During times that the DVR is set to operate in the kids zone operational mode, the DVR prevents itself from presenting any content items that are associated with the identities. However, during these times, the DVR still may obtain and store these content items. At other times, during which the DVR is not set to operate in the kids zone operational mode, the DVR may allow itself to present the content items that are associated with the identities, including content items that the DVR obtained and stored during times that the DVR was set to operate in the kids zone operational mode.

WO 2007/103154 A3

INTERNATIONAL SEARCH REPORT

International application No

PCT/US 07/05314

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| A CLASSIFICATION OF SUBJECT MATTER IPC(8) - H04N 5/91 (2007.01) USPC - 386/83 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) USPC - 386/83 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 386/1, 4, 348/474, 713/154, 725/25, 28 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (USPT, PGPB, EPAB, JPAB), DialogPRO (Engineering), Google Scholar Search Terms DVR, PVR, TIVO, block or deny, parent, content or show or broadcast or program or schedule, record or save or store | | |
| C DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No |
| X ---- Y | US 2004/0244030 A1 (BOYCE et al) 02 December 2004 (02 12 2004), entire document, especially Abstract, para [0003]-[0004], f0008]-[0009], [0016], [0021]-[0022] | 1-5, 11, 18-22, 24-30, 36, 43-47, 49-50 ----- 6-10, 12-13, 23, 31-35, 37-38, 48 |
| X | US 2003/0172377 A1 (JOHNSON) 11 September 2003 (11 09 2003), entire document, especially para [0025]-[0041] | 14-17, 39-42 |
| Y | US 2004/0210926 A1 (FRANCIS et al) 21 October 2004 (21 10 2004), entire document, especially Abstract, para [0007H0008], [0011]-[0012], [0071], [01 12] | 6, 12, 31, 37 |
| Y | US 2004/0261096 A1 (MATZ) 23 December 2004 (23 12 2004), entire document, especially para [0005], [0007], [0014], [0018], [0128] | 7-10, 13, 23, 32-35, 38, 48 |
| <u>I I</u> Further documents are listed in the continuation of Box C <u>L L</u> | | |
| <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> "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 "&" document member of the same patent family | |
| Date of the actual completion of the international search | Date of mailing of the international search report | |
| 04 September 2007 (04 09 2007) | 2 OFEB 2008 | |
| 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 Lee W Young PCT Helpdesk 571 272-4300 PCTOSP 571-272 7774 | |