

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 July 2010 (08.07.2010)

(10) International Publication Number
WO 2010/077123 A3

- (51) **International Patent Classification:**
H04N 7/173 (2006.01) H04N 5/76 (2006.01)
- (21) **International Application Number:**
PCT/KR2010/000037
- (22) **International Filing Date:**
5 January 2010 (05.01.2010)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/142,616 5 January 2009 (05.01.2009) US
- (71) **Applicant (for all designated States except US):** LG ELECTRONICS INC. [KR/KR]; 20, Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721 (KR).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** KIM, Kyung Ho [KR/KR]; Intellectual Property Center, LG Electronics Inc., 16 Woomyeon-dong, Seocho-gu, Seoul 137-724 (KR). SON, Hyeong Ho [KR/KR]; Intellectual Property Center, LG Electronics Inc., 16 Woomyeon-dong, Seocho-gu, Seoul 137-724 (KR). LEE, Joon Hui [KR/KR]; Intellectual Property Center, LG Electronics Inc., 16

Woomyeon-dong, Seocho-gu, Seoul 137-724 (KR). SUH, Jong Yeul [KR/KR]; Intellectual Property Center, LG Electronics Inc., 16 Woomyeon-dong, Seocho-gu, Seoul 137-724 (KR).

(74) **Agents:** KIM, Yong In et al.; KBK & Associates, 7th Floor, Hyundai Building, 175-9, Jamsil-dong, Songpa-ku, Seoul 138-861 (KR).

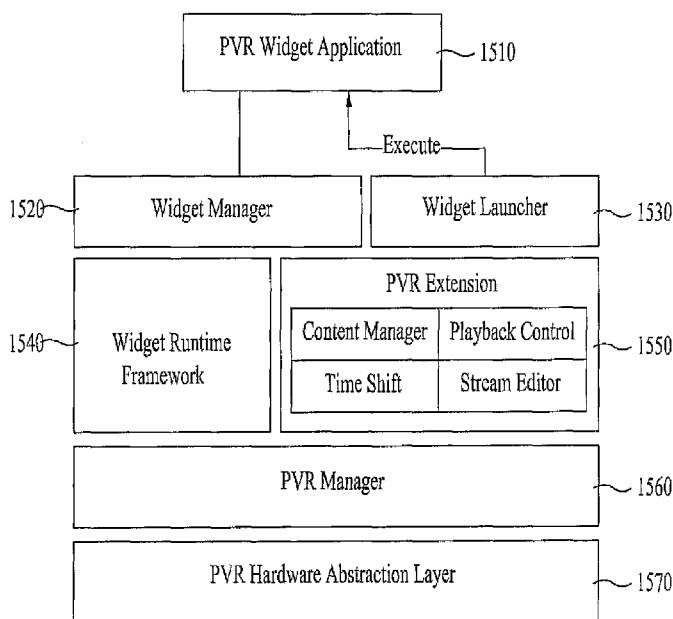
(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,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

[Continued on next page]

(54) **Title:** AN IPTV RECEIVER AND METHOD FOR PERFORMING A PERSONAL VIDEO RECORDER FUNCTION IN THE IPTV RECEIVER

[Fig. 15]



(57) **Abstract:** An IPTV receiver and a method for performing a Personal Video Recorder (PVR) function in the IPTV receiver are disclosed. Herein, the method can include downloading a widget application from a server, receiving a first request for executing the downloaded widget application from a user, executing the downloaded widget application according to the first request at a browser, receiving a second request for performing a specific PVR function through the executed widget application from the user and performing the specific PVR function according to the second request.

WO 2010/077123 A3



MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

Published:

— with international search report (Art. 21(3))

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

14 October 2010

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2010/000037**A. CLASSIFICATION OF SUBJECT MATTER****H04N 7/173(2006.01)i, H04N 5/76(2006.01)i**

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)

H04N 7/173; H04N 7/24; H04Q 7/24

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: IPTV, PVR

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2007-101473 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) et al.) 13 September 2007 See abstract; claims 1, 2, 10; figures 2, 5.	1-20
A	WO 2008-078854 A1 (MODACOM CO., LTD. et al.) 03 July 2008 See abstract; claim 1; figure 2.	1-20
A	US 2007-0130601 A1 (WEIPING LI et al.) 07 June 2007 See abstract; claims 1, 9, 16; figure 2.	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

* 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 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

"&" document member of the same patent family

Date of the actual completion of the international search

19 AUGUST 2010 (19.08.2010)

Date of mailing of the international search report

20 AUGUST 2010 (20.08.2010)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Moon, Nam Doo

Telephone No. 82-42-481-5751



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2010/000037

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2007-101473 A1	13.09.2007	None	
WO 2008-078854 A1	03.07.2008	KR 10-0825115 B1	25.04.2008
		KR 10-0825115 B1	25.04.2008
		KR 10-0825115 B1	25.04.2008
		WO 2008-078854 A1	03.07.2008
US 2007-0130601 A1	07.06.2007	CN 101336538 A	31.12.2008
		CN 101336538 A	31.12.2008
		WO 2007-067568 A2	14.06.2007
		WO 2007-067568 A3	14.06.2007
		WO 2007-067568 A3	01.11.2007