

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 March 2010 (18.03.2010)

(10) International Publication Number
WO 2010/030087 A3

(51) International Patent Classification:
G11B 27/031 (2006.01)

448-710 (KR). **LEE, Dae-Jong**; 205-1212 Maetan Seongil Apt., Maetan 4-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-717 (KR).

(21) International Application Number:
PCT/KR2009/004893
(22) International Filing Date:
3 September 2009 (03.09.2009)

(74) Agent: **Y.P.LEE, MOCK & PARTNERS**; Koryo Building 1575-1, Seocho-dong, Seocho-gu, Seoul 137-875 (KR).

(25) Filing Language: English

(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, 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, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
10-2008-0089327
10 September 2008 (10.09.2008) KR

(71) Applicant (for all designated States except US): **SAM-SUNG ELECTRONICS CO., LTD.** [KR/KR]; 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742 (KR).

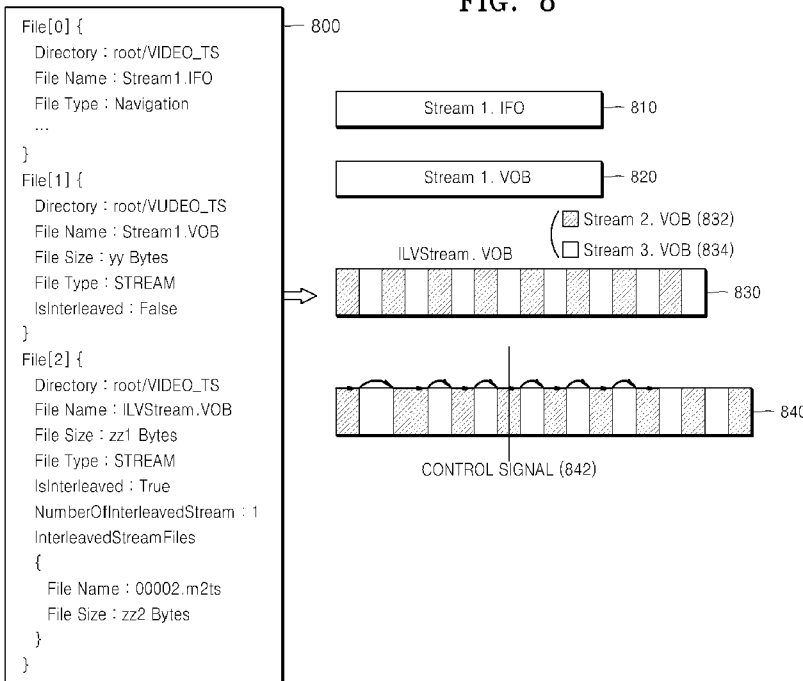
(72) Inventors: **KANG, Man-Seok**; 134-1601 Hwanggol Maeul 1-danji Apt., Yeongtong-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-740 (KR). **RHYU, Sung-Ryeul**; 514-1204 Dongmun Goodmorning Hill 5-cha Apt., Dongcheon-dong, Suji-gu, Yongin-si, Gyeonggi-do

(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: METHOD AND APPARATUS FOR TRANSMITTING CONTENT AND METHOD AND APPARATUS FOR RECORDING CONTENT

FIG. 8



(57) Abstract: A content transmitting method including: generating additional information regarding content including audio/video (A/V) data for multi-angle viewing, wherein the additional information is to be used to record the content; and transmitting the content and the additional information.

WO 2010/030087 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:

17 June 2010

A. CLASSIFICATION OF SUBJECT MATTER*G11B 27/031(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)

G11B 27/031; G11B 20/10; G11B 27/02; G11B 27/10; G11B 7/007; H04N 5/781; H04N 5/92

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

(Chinese Patents and application for patent)

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

eKOMPASS(KIPO internal) & Keywords: "multi, angle, navigation, content, configuration"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006-0083485 A1 (SHINICHI KIKUCHI) 20 April 2006	1,6,14,19,25,26
Y	See abstract, paragraphs 36-37.	2,5,7,10,15,18,20
Y	KR 10-2006-0027369 A (PIONEER CORPORATION) 27 March 2006 See abstract, page 3, lines 4-14.	2,7,15,20
Y	EP 1796097 A1 (SONY CORPORATION) 13 June 2007 See abstract, paragraphs 1-284.	5,10,18
A	KR 10-2007-0092086 A (LG ELECTRONICS INC.) 12 September 2007 See abstract, paragraphs, 38-41 and 91-92, figure 3.	1-27
A	KR 10-2006-0017825 A (KONINKLIJKE PHILIPS ELECTRONICS N.V.) 27 February 2006 See abstract.	1-27

 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

21 APRIL 2010 (21.04.2010)

Date of mailing of the international search report

21 APRIL 2010 (21.04.2010)

Name and mailing address of the ISA/KR

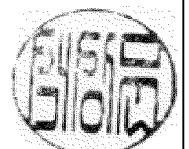
Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Soak, Sang Moon

Telephone No. 82-42-481-8470



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2009/004893

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2006-0083485 A1	20.04.2006	JP 2006-121235 A	11.05.2006
KR 10-2006-0027369 A	27.03.2006	AU 2004-300605 A1	13.01.2005
		AU 2004-300605 B2	03.12.2009
		CA 2530475-A1	13.01.2005
		CN 1817033 A	09.08.2006
		CN 1817033 C0	09.08.2006
		CN 1856075 A	01.11.2006
		CN 1856075 C0	01.11.2006
		CN 1867057 A	22.11.2006
		CN 1867057 C0	22.11.2006
		EP 1648168 A1	19.04.2006
		EP 1648168 A4	09.08.2006
		EP 1689176 A1	09.08.2006
		EP 1689177 A1	09.08.2006
		JP 2006-221795 A	24.08.2006
		JP 2006-229996 A	31.08.2006
		JP W020-050044 77A1	13.01.2005
		KR 10-2006-0033934 A	20.04.2006
		KR 10-2006-0041319 A	11.05.2006
		US 2006-0210250 A1	21.09.2006
		US 2006-0210251 A1	21.09.2006
		US 2007-0019510 A1	25.01.2007
		WO 2005-004477 A1	13.01.2005
EP 1796097 A1	13.06.2007	JP 04-332804 B2	03.07.2009
		JP 2007-164835 A	28.06.2007
		US 2007-0160346 A1	12.07.2007
KR 10-2007-0092086 A	12.09.2007	KR 10-2007-0092080 A	12.09.2007
KR 10-2006-0017825 A	27.02.2006	EP 1634445 A1	15.03.2006
		JP 2007-505586 A	08.03.2007
		US 2007-0140663 A1	21.06.2007
		WO 2004-107752 A1	09.12.2004