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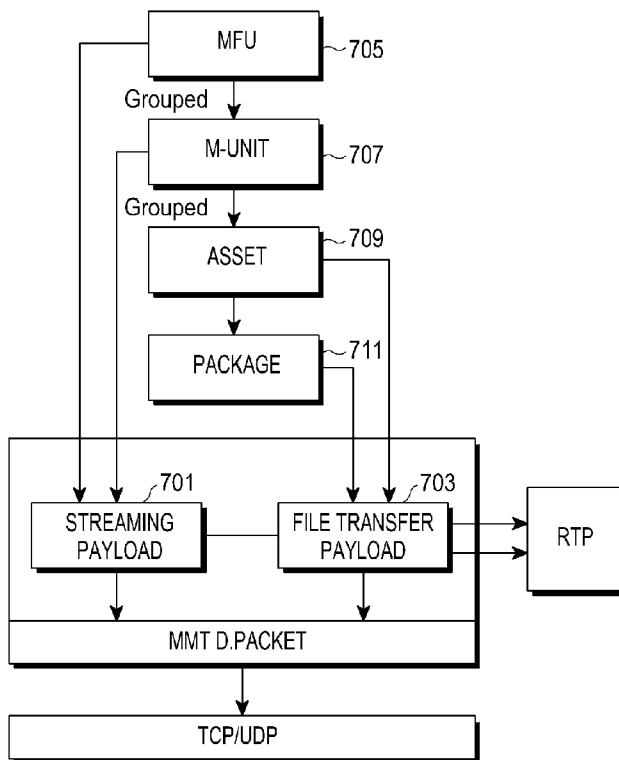
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(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, 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, QA, RO, RS, RU, RW, 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.

[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR TRANSMITTING/RECEIVING MEDIA CONTENTS IN MULTIMEDIA SYSTEM



(57) **Abstract:** A method and an apparatus of transmitting media content in a multimedia system are provided. The method includes determining a transmission unit for transmitting at least one multimedia source related to the media content, generating a data stream including header information and the at least one multimedia source according to the determined transmission unit, and transmitting the data stream through a communication network.

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INTERNATIONAL SEARCH REPORT

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PCT/KR2012/004666**A. CLASSIFICATION OF SUBJECT MATTER****H04N 7/24(2011.01)i, H04N 7/08(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 7/24; H04N 5/76; H04N 7/26; H04N 21/2387

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: multimedia, unit, header, ID, PPS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2010-0033447 A (PANASONIC CORPORATION) 29 March 2010 See abstract; paragraphs [0038]-[0049]; figures 3-7; claims 1-6	1-14
A	KR 10-2007-0033322 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 26 March 2007 See abstract; page 3, line 1-page 4, line 22; figures 1-6; claims 1-13	1-14
A	Battista, S. et al., MPEG-4: A Multimedia Standard for the Third Millennium, Part 1, MultiMedia, IEEE, Oct-Dec 1999, Vol. 6, Issue 4, Pages: 74-83 See abstract; right column in page 74, lines 4-22, left column in page 75, lines 47-49	1-14
A	KR 10-0937045 B1 (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE et al.) 15 January 2010 See abstract; paragraphs [0016]-[0018]; figure 1; claim 1	1-14

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

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"&" document member of the same patent family

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date		
KR 10-2010-0033447 A	29.03.2010	CN 100596180 C	24.03.2010		
		CN 101695114 A	14.04.2010		
		CN 101695115 A	14.04.2010		
		CN 101695116 A	14.04.2010		
		CN 101695117 A	14.04.2010		
		CN 1965574 A	16.05.2007		
		CN 1965574 C0	16.05.2007		
		EP 1751978 A1	14.02.2007		
		EP 1751978 B1	09.02.2011		
		EP 1993284 A2	19.11.2008		
		EP 1993284 A3	10.12.2008		
		EP 2190192 A1	26.05.2010		
		EP 2200295 A1	23.06.2010		
		JP 04-138840 B2	27.08.2008		
		JP 04-211999 B2	21.01.2009		
		JP 04-212000 B2	21.01.2009		
		JP 04-668308 B2	21.01.2011		
		JP 04-668344 B2	21.01.2011		
		JP 2008-154255 A	03.07.2008		
		JP 2008-263640 A	30.10.2008		
		JP 2008-502171 A	24.01.2008		
		JP 2009-027738 A	05.02.2009		
		JP 2010-028864 A	04.02.2010		
		KR 10-1084462 B1	21.11.2011		
		KR 10-1132062 B1	02.04.2012		
		KR 10-1133342 B1	06.04.2012		
		US 2007-0110390 A1	17.05.2007		
		US 2010-0021143 A1	28.01.2010		
		US 2010-0046609 A1	25.02.2010		
		US 7706662 B2	27.04.2010		
		US 7792415 B2	07.09.2010		
		WO 2005-120060 A1	15.12.2005		
		KR 10-2007-0033322 A	26.03.2007	CN 100596180 C	24.03.2010
				CN 101695114 A	14.04.2010
				CN 101695115 A	14.04.2010
				CN 101695116 A	14.04.2010
CN 101695117 A	14.04.2010				
CN 1965574 A	16.05.2007				
CN 1965574 C0	16.05.2007				
EP 1751978 A1	14.02.2007				
EP 1751978 B1	09.02.2011				
EP 1993284 A2	19.11.2008				
EP 1993284 A3	10.12.2008				
EP 2190192 A1	26.05.2010				
EP 2200295 A1	23.06.2010				
JP 04-138840 B2	27.08.2008				
JP 04-211999 B2	21.01.2009				
JP 04-212000 B2	21.01.2009				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2012/004666

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		JP 04-668308 B2	21.01.2011
		JP 04-668344 B2	21.01.2011
		JP 2008-154255 A	03.07.2008
		JP 2008-263640 A	30.10.2008
		JP 2008-502171 A	24.01.2008
		JP 2009-027738 A	05.02.2009
		JP 2010-028864 A	04.02.2010
		KR 10-1132062 B1	02.04.2012
		KR 10-1133342 B1	06.04.2012
		KR 10-1134220 B1	09.04.2012
		US 2007-0110390 A1	17.05.2007
		US 2010-0021143 A1	28.01.2010
		US 2010-0046609 A1	25.02.2010
		US 7706662 B2	27.04.2010
		US 7792415 B2	07.09.2010
		WO 2005-120060 A1	15.12.2005
KR 10-0937045 B1	15.01.2010	None	