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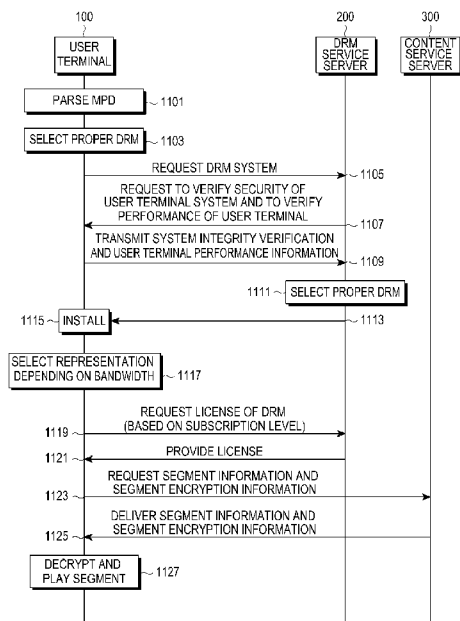
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[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR PROVIDING DRM SERVICE

[Fig. 14]



(57) **Abstract:** A method and apparatus are provided for providing a DRM service in a user terminal apparatus providing an adaptive streaming service. Content protection information is received that includes information about multiple DRM systems applied to specific content provided using the adaptive streaming service. A specific DRM system is selected from among the multiple DRM systems. A license corresponding to the specific DRM system is acquired. The license includes an encryption key capable of decrypting the specific content. The specific content is decrypted using the acquired license.

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B. FIELDS SEARCHED

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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: "digital, right, management, DRM, protection, licence, plurality"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2010-0073183 A (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE) 01 July 2010 See the abstract, paragraphs 24-47.	1-15
A	WO 02-101490 A2 (CONTENTGUARD HOLDINGS, INC.) 19 December 2002 See the abstract, paragraphs 9-14.	1-15
A	EP 1686757 A1 (THOMSON LICENSING S.A.) 02 August 2006 See the whole document.	1-15
A	JP 2005-253048 A (MICROSOFT CORP) 15 September 2005 See the abstract, claims 1, 8 and 10.	1-15

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

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 10-2010-0073183 A	01.07.2010	US 2010-0161781 A1	24.06.2010
WO 02-101490 A2	19.12.2002	AU 2002-305814 B2	10.06.2004
		BR 0210930 A	03.05.2005
		CA 2432189 A1	19.12.2002
		CN 1539117 A	20.10.2004
		CN 1539117 C0	20.10.2004
		EP 1340134 A2	03.09.2003
		EP 1340134 A4	28.07.2004
		JP 2004-530222 A	30.09.2004
		JP 2004-530222 T	30.09.2004
		KR 10-2003-0096250 A	24.12.2003
		US 2002-0198845 A1	26.12.2002
		US 7853531 B2	14.12.2010
		WO 02-101490 A3	19.12.2002
		WO 0210-1490A3	05.06.2003
EP 1686757 A1	02.08.2006	CN 1812416 A	02.08.2006
		CN 1812416 C0	02.08.2006
		DE 602006013057 D1	06.05.2010
		EP 1686757 B1	24.03.2010
		FR 2881596 A1	04.08.2006
		JP 2006-209779 A	10.08.2006
		KR 10-2006-0087459 A	02.08.2006
		KR20060087459A	02.08.2006
		US 2006-0294594 A1	28.12.2006
JP 2005-253048 A	15.09.2005	CN 1665184 A	07.09.2005
		CN 1665184 C0	07.09.2005
		EP 1378812 A2	07.01.2004
		EP 1378812 A3	15.09.2004
		EP 1571524 A2	07.09.2005
		JP 04-724360 B2	15.04.2011
		JP 2004-054937 A	19.02.2004
		JP 4724360 B2	13.07.2011
		KR 10-0949657 B1	26.03.2010
		KR 20050089746A	08.09.2005
		US 2004-0003268 A1	01.01.2004
		US 2004-0243819 A1	02.12.2004
		US 7502945 B2	10.03.2009
		US 7549060 B2	16.06.2009