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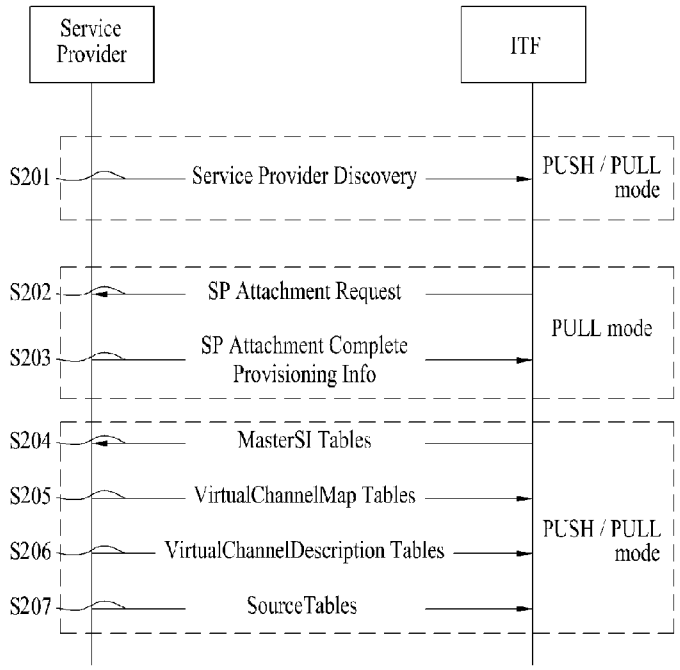
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(54) Title: PURCHASE TRANSACTION METHOD FOR IPTV PRODUCT AND IPTV RECEIVER THEREOF

[Fig. 4]




(57) Abstract: A purchase transaction method for IPTV product and IPTV receiver thereof using the same are provided. The purchase transaction method for IPTV product includes requesting to make a purchase for a offering by using a identifier of the offering, wherein the offering is a combination of one or more products to be purchased and purchase terms for the products; and obtaining a response returned from the request to indicate success or failure of the requested purchase.

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**A. CLASSIFICATION OF SUBJECT MATTER**

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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)

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Korean utility models and applications for utility models

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eKOMPASS(KIPO internal) & Keywords: IPTV, transaction

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| A | US 2009-0132383 A1 (PIEPENBRINK DAVID et al.) 21 May 2009<br>See abstract; paragraph [0047]; claims 1, 12; figure 2. | 1-25 |
| A | WO 2009-143891 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) et al.)<br>03 December 2009<br>See abstract; claims 1, 9; figure 2. | 1-25 |
| A | KR 10-2009-0101079 A (LG ELECTRONICS INC.) 24 September 2009<br>See abstract; paragraphs [0016]-[0026]; claims 1, 9; figures 1-2. | 1-25 |

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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|---|---|---|---|
| US 2009-0132383 A1 | 21.05.2009 | None | |
| WO 2009-143891 A1 | 03.12.2009 | CN 102047628 A | 04.05.2011 |
| | | EP 2279598 A1 | 02.02.2011 |
| | | EP 2279598 B1 | 26.10.2011 |
| | | MX 2010012013 A | 30.11.2010 |
| | | US 2011-0064219 A1 | 17.03.2011 |
| KR 10-2009-0101079 A | 24.09.2009 | AU 2009-201131 A1 | 08.10.2009 |
| | | CN 101540788 A | 23.09.2009 |
| | | EP 2104298 A1 | 23.09.2009 |
| | | EP 2104299 A1 | 23.09.2009 |
| | | KR 10-2009-0101077 A | 24.09.2009 |
| | | US 2009-0241154 A1 | 24.09.2009 |
| | | US 2009-0241162 A1 | 24.09.2009 |