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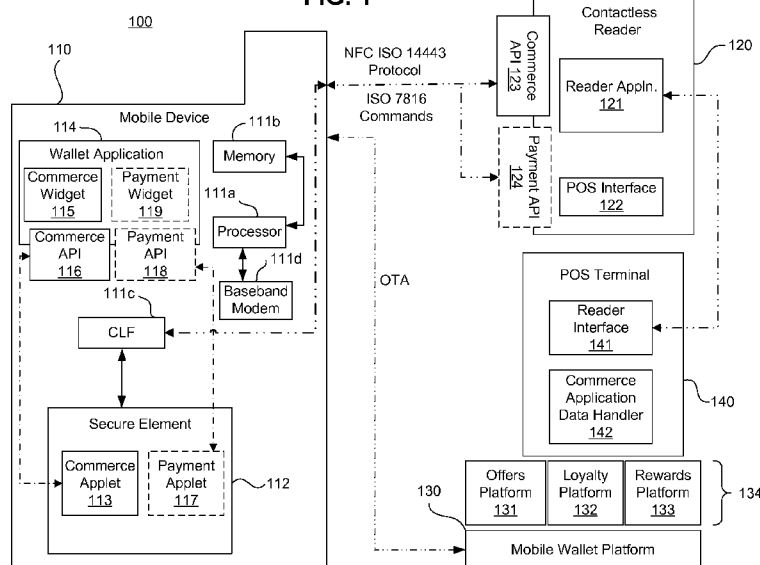
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[Continued on next page]

- (54) **Title:** SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS FOR PROVIDING A CONTACTLESS PROTOCOL

FIG. 1

- (57) **Abstract:** Systems, methods, and computer program products are provided for managing contactless transactions. An activation request is received. A first tap from a mobile device is identified. The first tap occurs when the mobile device is placed within a predetermined proximity to the system. A first select command including an AID corresponding to a first application is transmitted to the mobile device. A first response based on the first select command is received from the mobile device. A data request including information indicating supported data types is transmitted to the mobile device. A second response based on the data request and including transaction data is received from the mobile device.



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INTERNATIONAL SEARCH REPORT

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PCT/US2013/042451**A. CLASSIFICATION OF SUBJECT MATTER****G06Q 20/32(2012.01)i, G06Q 30/06(2012.01)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)

G06Q 20/32; H04B 5/00; G06Q 30/00; H04W 4/00; G06Q 20/00; G06Q 30/06

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: payment, AID, mobile

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2010-0211504 A1 (CHRISTIAN AABYE et al.) 19 August 2010	1-5, 7-11, 13-17
A	See abstract, paragraphs [0052]-[0054], claim 1 and figure 4.	6, 12, 18
Y	US 2012-0109764 A1 (PHILIPPE MARTIN et al.) 03 May 2012	1-5, 7-11, 13-17
A	See abstract, paragraphs [0063]-[0072], claim 13 and figure 3.	6, 12, 18
A	WO 2010-042560 A2 (VIVOTECH, INC. et al.) 04 April 2010	1-18
A	See abstract, claim 1 and figure 4.	
A	US 2011-0246316 A1 (MATTHEW BRIAN CINCERA) 06 October 2011	1-18
A	See abstract, paragraph [0033], claims 1, 3, 4, 8 and figure 3.	
A	US 2010-0051685 A1 (VIJAY K.OYYURU et al.) 03 March 2010	1-18
A	See abstract, claim 1 and figure 5.	



Further documents are listed in the continuation of Box C.



See patent family annex.

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"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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/US2013/042451

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010-0211504 A1	19/08/2010	AU 2009-292921 A1 AU 2009-292922 A1 AU 2009-292926 A1 AU 2009-292991 A1 CA 2738029 A1 CA 2738038 A1 CA 2738046 A1 CA 2738160 A1 EP 2329440 A2 EP 2332092 A1 EP 2340519 A1 EP 2342679 A1 EP 2342679 A4 EP 2637131 A1 US 2010-0198728 A1 US 2010-0211498 A1 US 2010-0211507 A1 US 2010-0217709 A1 WO 2010-033944 A2 WO 2010-033944 A3 WO 2010-033967 A1 WO 2010-033968 A1 WO 2010-033970 A1 WO 2010-033972 A1	25/03/2010 25/03/2010 25/03/2010 25/03/2010 25/03/2010 25/03/2010 25/03/2010 25/03/2010 08/06/2011 15/06/2011 06/07/2011 13/07/2011 11/04/2012 11/09/2013 05/08/2010 19/08/2010 19/08/2010 26/08/2010 25/03/2010 24/06/2010 25/03/2010 25/03/2010 25/03/2010 25/03/2010
US 2012-0109764 A1	03/05/2012	None	
WO 2010-042560 A2	15/04/2010	AU 2009-302485 A1 AU 2009-302485 A8 CN 102257524 A EP 2350943 A2 EP 2350943 A4 JP 2012-505475 A KR 10-2011-0104480 A MX 2011003425 A US 2010-0088188 A1 WO 2010-042560 A3	15/04/2010 09/06/2011 23/11/2011 03/08/2011 29/08/2012 01/03/2012 22/09/2011 12/08/2011 08/04/2010 08/07/2010
US 2011-0246316 A1	06/10/2011	US 8548912 B2	01/10/2013
US 2010-0051685 A1	04/03/2010	US 8523053 B2 WO 2010-027900 A2 WO 2010-027900 A3	03/09/2013 11/03/2010 10/06/2010