



(43) International Publication Date  
14 June 2012 (14.06.2012)

(10) International Publication Number  
**WO 2012/076437 A3**

(51) International Patent Classification:

*H04W* 8/18 (2009.01) *G07F* 7/10 (2006.01)  
*H04L* 29/06 (2006.01)

(21) International Application Number:

PCT/EP2011/071692

(22) International Filing Date:

5 December 2011 (05.12.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10306359.0 6 December 2010 (06.12.2010) EP

(71) Applicant (for all designated States except US):

**GEMALTO SA** [FR/FR]; 6 rue de la Verrerie, F-92190 Meudon (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MERRIEN, Lionel** [CA/CA]; 3610, rue Limoges, Montreal, Québec H4K1Y3 QC (CA). **MATHIAN, Nicolas** [FR/FR]; Résidence Les Frênes - Villa 2 -, Avenue de Laute, F-13400 Aubagne (FR). **ROUSSEL, Nicolas** [FR/FR]; 61 Avenue de la Grande Gorge, F-13009 Marseille (FR). **BERARD, Xavier** [FR/FR]; 18, Route du stade, F-13950 Cadolive (FR). **GACHON, Denis** [FR/FR]; Lot Rivière de Peyruis, F-83640 Saint Zacharie (FR). **GIRARD, Pierre** [FR/FR]; 942, chemin du Tourtaret, F-13112 La Destrousse (FR). **PROUST, Philippe** [FR/FR]; Impasse Fissiaux, Bât.C, F-13004 Marseille (FR). **VERGNES, Fabrice** [FR/FR]; 238 F Chemin de Meyreuil, F-13710 Fuveau (FR). **FARIA, Frédéric** [FR/FR]; c/o GEMALTO SA, Service brevets, BP90, F-13705 La Ciotat Cedex (FR). **IMOUCHA,**

**Franck** [FR/FR]; Les Gypières - Quartier Pont de Joux, F-13390 Auriol (FR). **BRADLEY, Paul** [IE/US]; 9801 Stonelake Blvd, Apt 726, Austin, Texas 78759 (US).

(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, KR, 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.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available):

ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- 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))

(88) Date of publication of the international search report:

16 August 2012

(54) Title: METHODS AND SYSTEM FOR PROCESSING DATA ON EMBEDDED OR REMOVABLE UICC

(57) Abstract: The invention proposes several methods related to the management of secure elements, like UICCs embedding Sim applications, these secure elements being installed, fixedly or not, in terminals, like for example mobile phones. In some cases, the terminals are constituted by machines that communicate with other machines for M2M (Machine to Machine) applications. The methods relate for example to downloading subscriptions or to transfer subscriptions between UICCs.



WO 2012/076437 A3

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2011/071692

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-8, 13, 14, 24-28, 30-35

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2011/071692

A. CLASSIFICATION OF SUBJECT MATTER  
INV. H04W8/18 H04L29/06 G07F7/10  
ADD.

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)  
H04W G06F H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

EPO-Internal, IBM-TDB

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 2 076 071 A1 (QUALCOMM INC [US]) 1 July 2009 (2009-07-01) paragraph [0028] - paragraph [0037] paragraph [0045] - paragraph [0051] -----	1-6
X	US 2008/261561 A1 (GEHRMANN CHRISTIAN [SE]) 23 October 2008 (2008-10-23)	13,14
Y	paragraph [0025] - paragraph [0029];	24,25
A	figure 3	6-8, 26-28
Y	----- WO 2004/021296 A1 (MAUNDER KINGSLEY PAUL [ZA]) 11 March 2004 (2004-03-11) paragraph [0001] paragraph [0025] - paragraph [0033] ----- -/-	24,25



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 another 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

5 April 2012

Date of mailing of the international search report

22/06/2012

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040,  
Fax: (+31-70) 340-3016

Authorized officer

Ströbeck, Anders

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2011/071692

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 10 2008 033976 A1 (GIESECKE & DEVRIENT GMBH [DE]) 28 January 2010 (2010-01-28)	30,33-35
Y	paragraph [0002] - paragraph [0006] paragraphs [0016], [0019] paragraph [0055] - paragraph [0065] -----	31,32
X	EP 1 650 717 A1 (TOSHIBA KK [JP]) 26 April 2006 (2006-04-26)	30,33-35
A	paragraph [0021] - paragraph [0030] paragraph [0038] - paragraph [0048] paragraph [0061] - paragraph [0064] -----	31,32
Y	US 7 024 390 B1 (MORI NOBUYUKI [JP] ET AL) 4 April 2006 (2006-04-04) column 1, line 11 - column 2, line 40 column 15, line 7 - line 24 column 16, line 34 - line 40 -----	31,32
A	US 2005/266883 A1 (CHATRATH VISHAL [FI]) 1 December 2005 (2005-12-01) paragraph [0008] paragraph [0025] - paragraph [0029] -----	26-28

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2011/071692

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2076071	A1	01-07-2009	CA 2710627 A1 02-07-2009
			CN 101933346 A 29-12-2010
			EP 2076071 A1 01-07-2009
			JP 2011509575 A 24-03-2011
			KR 20100095648 A 31-08-2010
			RU 2010130987 A 10-02-2012
			US 2009163175 A1 25-06-2009
			WO 2009082759 A1 02-07-2009
US 2008261561	A1	23-10-2008	CN 101663903 A 03-03-2010
			EP 2156689 A1 24-02-2010
			JP 2010532107 A 30-09-2010
			US 2008261561 A1 23-10-2008
			WO 2008128874 A1 30-10-2008
WO 2004021296	A1	11-03-2004	AU 2003263122 A1 19-03-2004
			WO 2004021296 A1 11-03-2004
DE 102008033976	A1	28-01-2010	CN 102099785 A 15-06-2011
			DE 102008033976 A1 28-01-2010
			EP 2318921 A1 11-05-2011
			US 2011126183 A1 26-05-2011
			WO 2010009789 A1 28-01-2010
EP 1650717	A1	26-04-2006	CN 1763716 A 26-04-2006
			EP 1650717 A1 26-04-2006
			JP 2006119901 A 11-05-2006
			KR 20060051023 A 19-05-2006
			SG 121941 A1 26-05-2006
			US 2006086785 A1 27-04-2006
US 7024390	B1	04-04-2006	EP 1077425 A1 21-02-2001
			JP 4176181 B2 05-11-2008
			JP 11259765 A 24-09-1999
			US 7024390 B1 04-04-2006
			WO 9946714 A1 16-09-1999
US 2005266883	A1	01-12-2005	CN 1989779 A 27-06-2007
			EP 1757131 A1 28-02-2007
			US 2005266883 A1 01-12-2005
			WO 2005117478 A1 08-12-2005

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 13, 14, 24-28, 30-35

A method for securely transferring data of a secure element between two terminals

---

2. claims: 9-12

A method for preventing malware on a mobile equipment from acting on managed content of a secure element of the mobile equipment

---

3. claims: 15-18

A method for delivering confidential data for a UICC such that it can only be accessed by a user in possession of the mobile terminal containing that UICC

---

4. claims: 19-23, 36-38, 45-48

A method for activating a subscription of a user selected provider after purchasing a terminal

---

5. claim: 29

A method for "warm" switching between logical UICCs

---

6. claims: 39-44

Providing a system for easy and efficient management of all subscriptions on a UICC

---