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(71) Applicant (for US only): YUBICO AB [SE/SE]; Sting, Teknikringen 33, S-100 44 Stockholm (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): EHRENSVÄRD, Stina [SE/SE]; Svanvägen 16, S-183 77 Täby (SE).

(74) Agent: GIAVARINI, Francesco: Zanoli & Giavarini Srl. Viale Melchiorre Gioia, 64, I-20125 Milano (IT).

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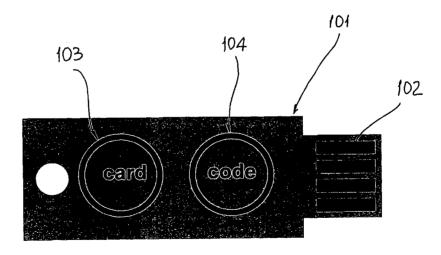
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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(54) Title: DEVICE AND METHOD FOR GENERATING DYNAMIC CREDIT CARD DATA



(57) Abstract: A portable electronic device adapted to be attached to a computer through a keyboard input port, the portable device having means to generate and automatically output authentication data on request by a user. The output data comprises a by the device generated dynamic code and the code can be automatically inserted into at least one pre-defined field in a credit-card transaction process form.





INTERNATIONAL SEARCH REPORT

International application No PCT/SE2008/000472

A. CLASSI INV.	FICATION OF SUBJECT MATTER G06Q20/00		·						
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 G06F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
EPO-In	ternal	·							
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.						
Y	US 2007/114274 A1 (GIBBS SIMON [24 May 2007 (2007-05-24) paragraphs [0006], [0009] - [00 paragraphs [0023], [0024], [0073	11] 38] -	1-9						
Y	WO 00/42491 A (RAINBOW TECHNOLOGEUS]) 20 July 2000 (2000-07-20) page 3, line 22 - page 4, line 1 page 5, lines 1-12 page 5, line 26 - page 6, line 1 page 9, line 9 - page 10, line 2 page 10, line 30 - page 11, line page 13, lines 7-29 page 17, lines 9-24 page 32, line 19 - page 34, line	1-9							
		-/							
X Furt	her documents are listed in the continuation of Box C.	X See patent family annex.							
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other	ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but	document is combined with one or m ments, such combination being obvio in the art.							
later t	han the priority date claimed	*&* document member of the same patent family							
	actual completion of the international search	Date of mailing of the international sea	arch report						
19 February 2009		05/03/2009							
Name and	mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer							
	Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Aupiais, Brigitte)						

INTERNATIONAL SEARCH REPORT

International application No
PCT/SE2008/000472

	Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
Y	US 2006/124756 A1 (BROWN KERRY D [US] BROWN KERRY DENNIS [US]) 15 June 2006 (2006-06-15) paragraphs [0003], [0009] - [0014], [0033], [0034], [0038], [0039] paragraphs [0058] - [0063], [0073] - [0084]	2-4,6				
Y	WO 2007/008540 A (SANDISK CORP [US]; GONZALEZ CARLOS J [US]; FERCHAU JOERG [US]; JAGOND-) 18 January 2007 (2007-01-18) paragraphs [0009], [0010], [0014] - [0017], [0040] - [0056], [0060], [0066], [0067], [0078]	1,3,7,8				
Y	EP 1 557 741 A (SONY CORP [JP]) 27 July 2005 (2005-07-27) paragraphs [0072] - [0092]	1,9				
A	US 2003/046588 A1 (GLINIECKI GREGORY JAMES [US] ET AL) 6 March 2003 (2003-03-06) paragraphs [0011] - [0013]	1				
P,X	WO 2007/122224 A (CYPAK AB [SE]; EHRENSVAERD JAKOB [SE]; EHRENSVAERD STINA [SE]) 1 November 2007 (2007-11-01) page 3, line 18 - page 5, line 26 page 7, line 1 - page 9, line 12 page 13, line 16 - page 15, line 2 page 15, line 31 - page 16, line 32	1-3,7-9				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/SE2008/000472

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2007114274	A1	24-05-2007	NONI	E		
WO 0042491	Α .	20-07-2000	AU EP JP US US	2608200 1141806 2002535746 7272723 2001043702	A1 T B1	01-08-2000 10-10-2001 22-10-2002 18-09-2007 22-11-2001
US 2006124756	A1	15-06-2006	NONE			
WO 2007008540	. A	18-01-2007	EP JP KR	1920380 2009500756 20080034898	T	14-05-2008 08-01-2009 22-04-2008
EP 1557741	Α	27-07-2005	JP US	2005209038 2005182973		04-08-2005 18-08-2005
US 2003046588	A1	06-03-2003	NON	 E		
WO 2007122224	Α	01-11-2007	EP	2011052	A1	07-01-2009