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- (74) **Agents:** AHMAD, Sheikh Shakeel et al.; Fleet Place House, 2 Fleet Place, London, Greater London EC4M 7ET (GB).
- (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, BN, 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, PA, 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.

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(54) **Title:** IMPROVEMENTS RELATING TO SECURITY METHODS USING MOBILE DEVICES

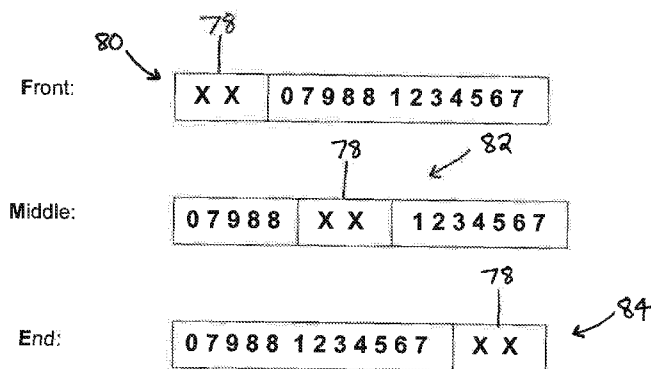


Figure 4a - Fixed length, variable location

(57) **Abstract:** A security device for a portable telecommunications device for controlling each communication from the device to a particular telecommunications address, the security device comprising: a data store for storing a personal identifier of at least four alphanumeric characters initially input into the security device by the user during a set-up procedure; control means for controlling access to a communications module of the telecommunications device; presenting means for presenting, on the portable telecommunications device, a variable identifier identifying a predetermined variable associated with the personal identifier for input of a portion of the personal identifier; enabling means for enabling a user to input a portion of the personal identifier determined by the value of the predetermined variable; and comparing means for comparing the input portion with the corresponding portion of the stored personal identifier; wherein the control means is arranged to enable access to the communications module of the telecommunications device for sending a communication to the particular telecommunications address, if the comparing means show the input portion matches the corresponding portion of the stored personal identifier.

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2013/050808

A. CLASSIFICATION OF SUBJECT MATTER
 INV. H04L29/06 G06Q20/40
 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)

H04L G06Q

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)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/328202 A1 (HORINO YOSHIFUMI [JP]) 31 December 2009 (2009-12-31) cited in the application abstract; claims 1-20; figures 1-8 paragraphs [0003], [0006] - [0009], [0015], [0020], [0023], [0024], [0034] - [0039], [0055] -----	1-28
X	US 2002/095482 A1 (SHUSTER GARY STEPHEN [US]) 18 July 2002 (2002-07-18) abstract; claims 1-14; figures 1-2 paragraphs [0007], [0017] - [0019] -----	1-28
X	EP 1 919 123 A1 (AUTHERNATIVE INC [US]) 7 May 2008 (2008-05-07) abstract; claims 1-22; figures 1-31 paragraphs [0037] - [0041], [0102] - [0109] ----- -/-	1-28



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

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"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

19 June 2013

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09/12/2013

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2013/050808

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.:

1-28

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 1-28

Security device and method for identity verification

2. claims: 29-39

System and method for virtual ticket creation

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2013/050808

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 311 594 A (PENZIAS ARNO A [US]) 10 May 1994 (1994-05-10) abstract; claims 1-18; figures 1-7 column 2, line 1 - column 11, line 21 -----	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2013/050808

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009328202	A1	31-12-2009	JP 4579315 B2 10-11-2010 JP 2010011233 A 14-01-2010 US 2009328202 A1 31-12-2009
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