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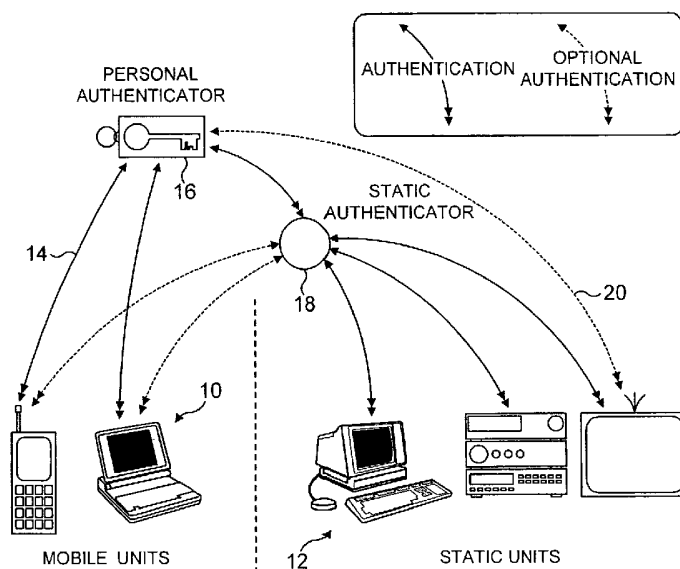
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(54) Title: PERSONAL AUTHENTICATION SYSTEM



(57) Abstract: A device authentication system, for example for consumer electronic products, uses a portable authenticator or key fob (16) to respond to periodic broadcast challenges from protected devices (10, 12). Public key cryptosystem technology is used, with the owner's public key being stored within each of the protected devices, and the corresponding private key within the key fob. Each challenge issued by a protected device is encrypted using the public key, and on receipt decrypted using the private key. If decryption is successful, a verification message is sent from the key fob to the protected device, authorising the protected device to continue operation. If a verification message is not received by the device ceases to operate.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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B. FIELDS SEARCHED		
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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 practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	WO 98 07255 A (INFORMATION RESOURCE ENGINEERI) 19 February 1998 (1998-02-19) page 3, line 7 - line 23 page 5, line 15 - line 18 page 9, line 1 - line 19 page 10, line 7 - line 16 page 19, line 1 - page 20, line 22 page 22, line 14 - page 24, line 23 page 29, line 10 - line 23 figures 5A, 5B, 6, 7 ---	1-17, 28-32
X	US 5 224 163 A (KAUFMAN CHARLES W ET AL) 29 June 1993 (1993-06-29) abstract column 5, line 42 - column 6, line 31 figure 1A --- -/--	1-13, 16, 17, 28-32
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in 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 document 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		
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Bichler, M

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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International Application No

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