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(54) Title: SELF-AUTHENTICATING IDENTIFICATION SUBSTRATE WITH ENCODED PACKET OUTPUT

(57) Abstract: A biometric fingerprint device for self-authenticating identification of a user of the device including internal memory and processing within a substrate of the device and digitized tonal output for communicating with a remote tone bank for validation. The digitized tonal output further includes a unique transaction identifier for increased security, particularly with retail transactions made via phone, wireless device, Internet, satellite, or other communication device.

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US02/03964

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC(7) : G06K 5/00  
 US CL : 340/5.83; 235/380  
 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)  
 U.S. : 340/5.83, 5.53, 5.65; 235/380, 381, 382, 382.5; 382/116, 124

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)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	U 5,623,552 A (LANE) 22 April 1997, cols. 2, 5-6, 9.	22
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Y		1-21, 23-24
Y	US 4,993,068 A (PIOSENKA et al) 12 February 1991, cols. 6-7.	1-21, 23-24
Y	US 4,614,861 A (PAVLOV et al) 30 September 1986, cols. 12-13.	5-6, 8-13, 24
Y	US 4,085,313 A (VAN NESS) 18 April 1978, col. 2.	5-6, 8-13, 24

Further documents are listed in the continuation of Box C.  See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	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
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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