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# (12) United States Patent DiGiorgio et al.

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### (54) SECURE TOKEN DEVICE ACCESS TO SERVICES PROVIDED BY AN INTERNET SERVICE PROVIDER (ISP)

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patent is extended or adjusted under 35

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(21) Appl. No.: **09/085,075** 

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825.34; 348/7

#### (56) References Cited

### U.S. PATENT DOCUMENTS

5,586,166 A	12/1996	Turban 379/58
5,665,951 A	9/1997	Newman 235/375
6,038,367 A	* 3/2000	Abecassis 386/46

### FOREIGN PATENT DOCUMENTS

EP	644 513		3/1995
EP	0833285	A2 *	9/1997
EP	833 285		4/1998
WO	WO 93/06546	*	11/1991
WO	WO 97/14118		4/1997

WO WO 98/06054 2/1998

#### OTHER PUBLICATIONS

Java card Internet, Scott, Guthery, 2 pages, Feb. 1997.\* Dallas Semicondutor Java Links iButton, 1 page, Aug. 1997.\*

"Java links ibutton to the internet," Dallas semiconductor press releases, Online! (1997) pp 1–3, XP002130009, «URL:http://www.dalsemi.com/News\_Center/Pr.
Guthery, "Java card: Internet computing on a smart card,"

*IEEE Internet computing*, pp. 57–59 (1997).

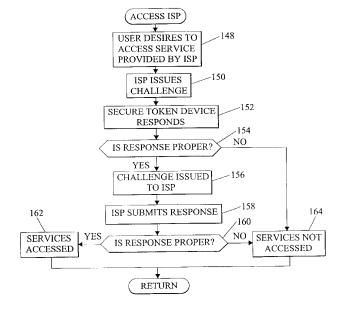
\* cited by examiner

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(57) ABSTRACT

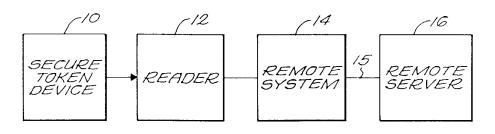
A secure token device, such as a smart card or an ibutton, provides a user with a vehicle for accessing services that are provided by an Internet Service Provider (ISP). The user places the secure token device in communication with a reader that is coupled to a computer system. The computer system includes a web browser for accessing the services provided by the ISP. The secure token device may perform an authentication protocol to authenticate itself to the ISP. The ISP may also be required to authenticate itself. The secure token device may hold an electronic currency token for payment of services rendered by the ISP. The secure token device may contain stored personal information about the user. The user may stipulate what portions of this personal information are provided to the ISP upon request. Contextual information regarding sessions with the ISP may also be stored on the secure token device and used to restore a context of a previous session during a subsequent session.

### 34 Claims, 10 Drawing Sheets



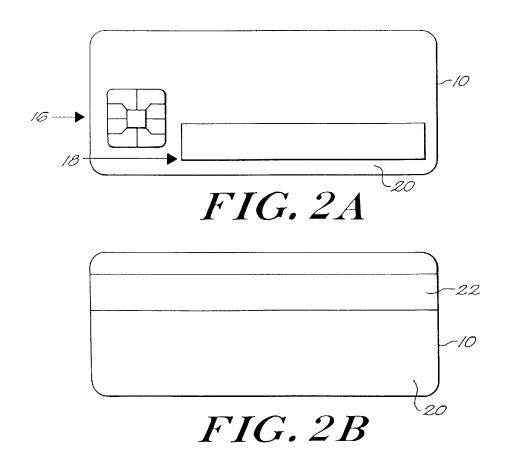


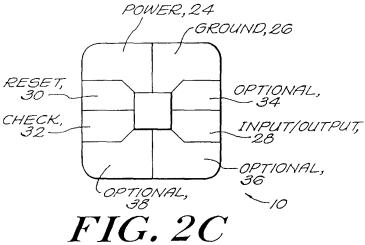


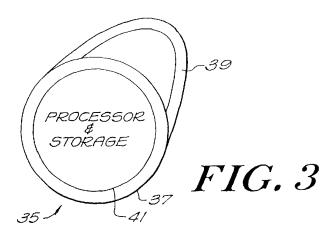


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FIG. 1







SECURE TOKEN DEVICE, 107

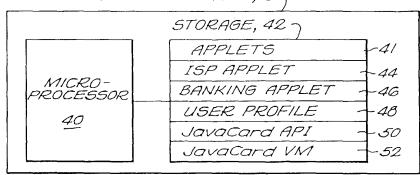
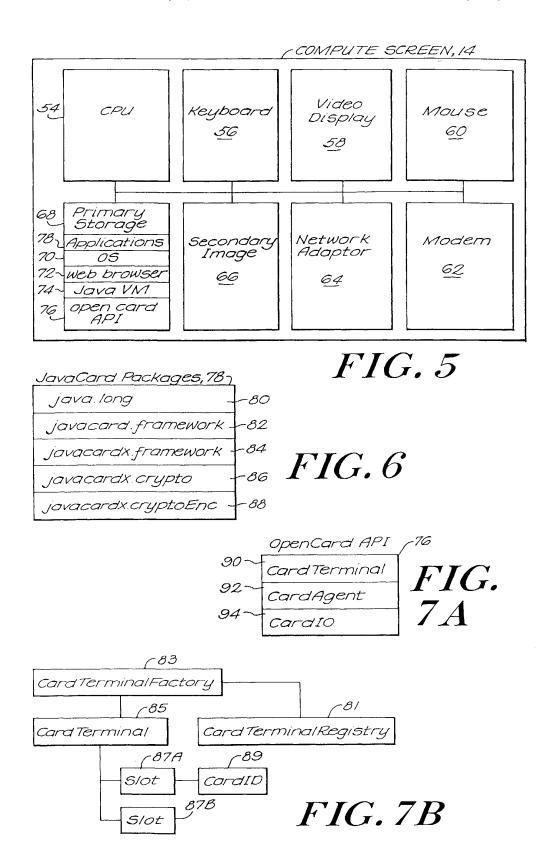
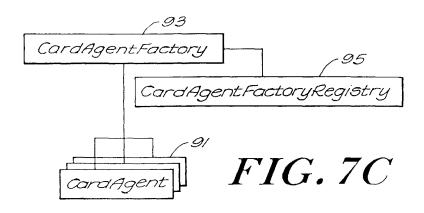
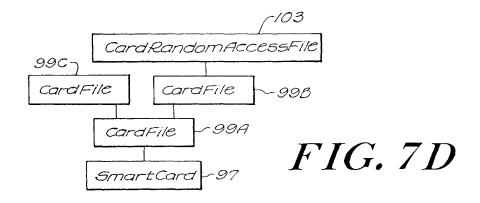


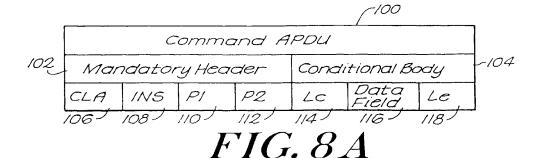
FIG. 4

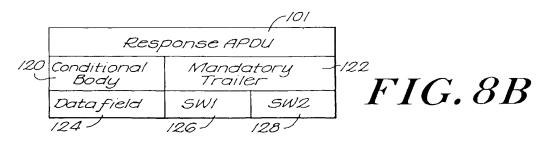
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