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(12) United States Patent

DiGiorgio et al.

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

- (75) Inventors: **Rinaldo DiGiorgio**, Stony Brook, NY (US); **Michael S. Bender**, Boulder Creek, CA (US)
- (73) Assignee: Sun Microsystems, Inc., Palo Alto, CA (US)
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- (52) U.S. Cl. 713/201; 713/172
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- 26, 52, 27, 53, 40, 43, 44, 45; 340/825.31, 825.34; 348/7

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WO WO 98/06054 2/1998

(10) Patent No.:

(45) Date of Patent:

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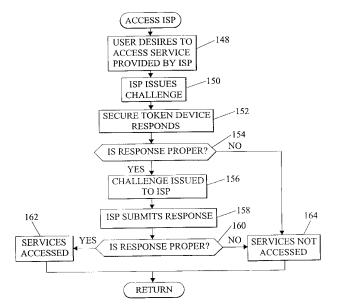
Primary Examiner—James P. Trammell Assistant Examiner—Pierre E Elisca

(74) Attorney, Agent, or Firm-Lahive & Cockfield, LLP

(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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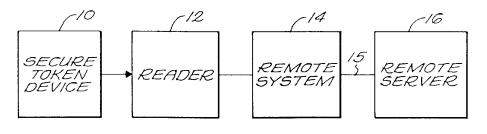
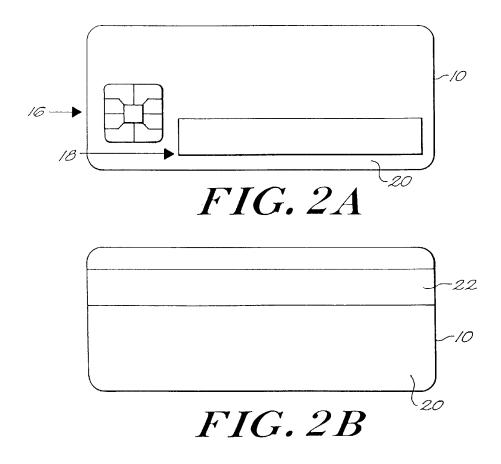
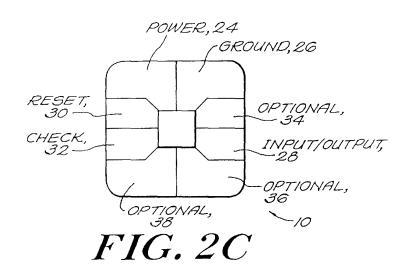
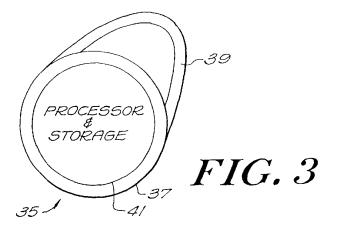


FIG. 1



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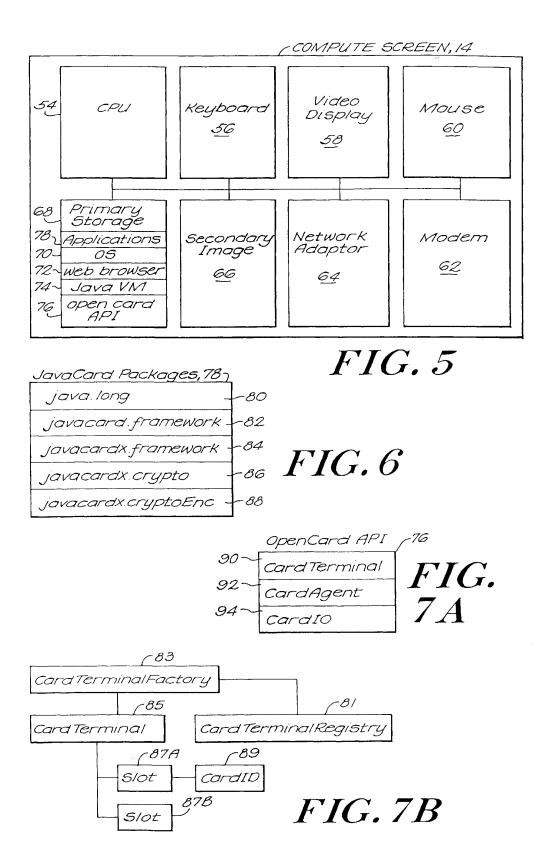
SECURE TOKEN DEVICE, 10

	STORAGE, 42	
	APPLETS	-41
	ISP APPLET	- 44
MICRO- PROCESSOR	BANKING APPLET	-46
10	USER PROFILE	-48
40	JavaCard API	- 50
	JavaCard VM	52

FIG. 4

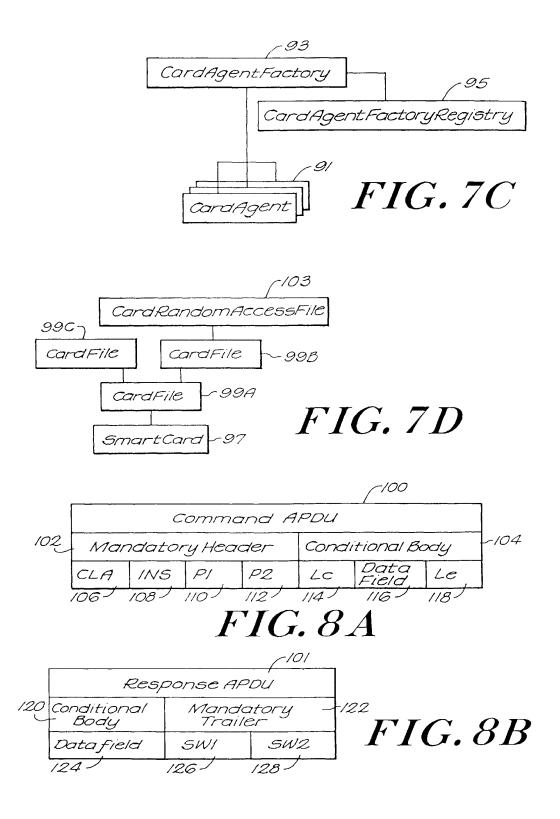
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