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(12) United States Patent de Jong

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(54) SMART CARD WITH MULTIPLE APPLICATIONS

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U.S.C. 154(b) by 380 days.

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(2006.01)

(56) References Cited

U.S. PATENT DOCUMENTS

5,530,232	Α	6/1996	Taylor 235/380
5,590,038	A	12/1996	Pitroda 395/241
5,857,079	A	1/1999	Claus et al 704/33
5,889,941	A *	3/1999	Tushie et al 726/26
6,005,942	A	12/1999	Chan et al 380/25
6,024,286	A	2/2000	Bradley et al 235/492
6,032,136	A	2/2000	Brake, Jr. et al 705/41
6,101,477	A	8/2000	Hohle et al 705/1
6,199,762	B1	3/2001	Hohle 235/492
6,308,317	B1	10/2001	Wilkinson et al 717/5
6,390,374	B1	5/2002	Carper et al 235/492
6,418,554	B1	7/2002	Delo et al 717/11
6,477,702	B1	11/2002	Yellin et al 717/126
6,481,632	B2	11/2002	Wentker et al 235/492
6,631,849	B2	10/2003	Blossom 235/492
6,915,957	B2	7/2005	Kisliakov 235/492
6,976,635	B2	12/2005	Ashizawa et al 235/492
002/0083322	A1	6/2002	Lagosanto et al 713/172
002/0134843	A1	9/2002	Ashizawa et al 235/492

2003/0078866	A1	4/2003	Richards et al 705/35
2003/0212896	A1	11/2003	Kisliakov 713/193
2004/0024735	A1		Yap et al 707/1
2004/0255081	A1	12/2004	Arnouse 711/115
2005/0038741	A1	2/2005	Bonalle et al 705/40
2005/0091544	A1	4/2005	Lambert 713/202
2005/0097550	A1	5/2005	Schwabe et al 717/178
2005/0138354	A1	6/2005	Saltz 713/153
2005/0149926	A1	7/2005	Saltz 718/1
2005/0178833	A1*	8/2005	Kisliakov 235/441
2005/0184163	A1	8/2005	de Jong 235/492
2005/0184164	A1		de Jong 235/492
2005/0188360	A1		de Jong 717/136

OTHER PUBLICATIONS

Sun Microsystems, Inc., "Java CardTM 2.2 Runtime Environment (JCRE) Specification", Palo Alto, CA, pp. 1-110, [Online] Jun. 2002. (XP002325473).

Sun Microsystems, Inc., "Java CardTM 2.2 Application Programming Interface", Palo Alto, CA, pp. 1-90, [Online] Sep. 2002. (XP002325474).

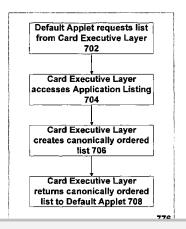
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(57) ABSTRACT

One embodiment of the invention provides a smart card having multiple applications installed thereon. One of the multiple applications is designated as a default application which is activated whenever the card is reset. The default application is required to implement a first operation to provide a canonically ordered listing of the multiple applications on the card. The default application may further implement a second operation to allow one of the multiple applications to be selected for activation via an index into the listing.

69 Claims, 15 Drawing Sheets





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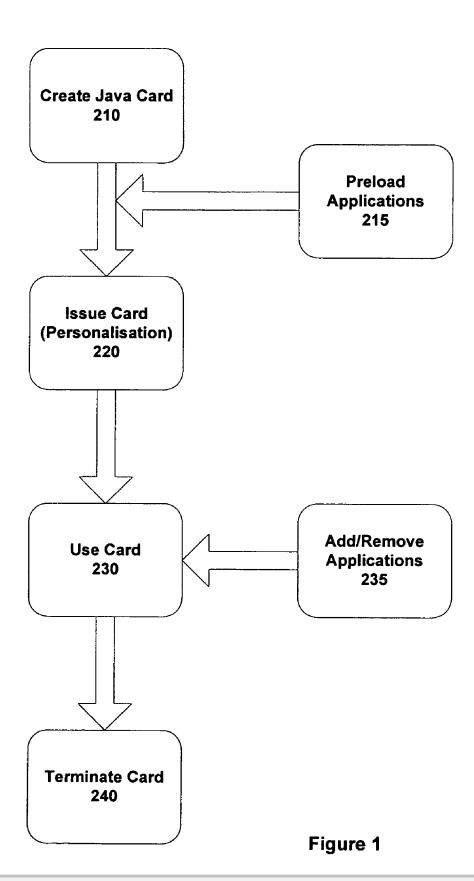
OTHER PUBLICATIONS

Sun Microsystems, Inc., "User's Guide, Wireless Toolkit, Version 2.1, JavaTM 2 Platform, Micro Edition", Sana Clara, CA, pp. 7-17, 73-75, [Online] Dec. 2003. (XP002325476).

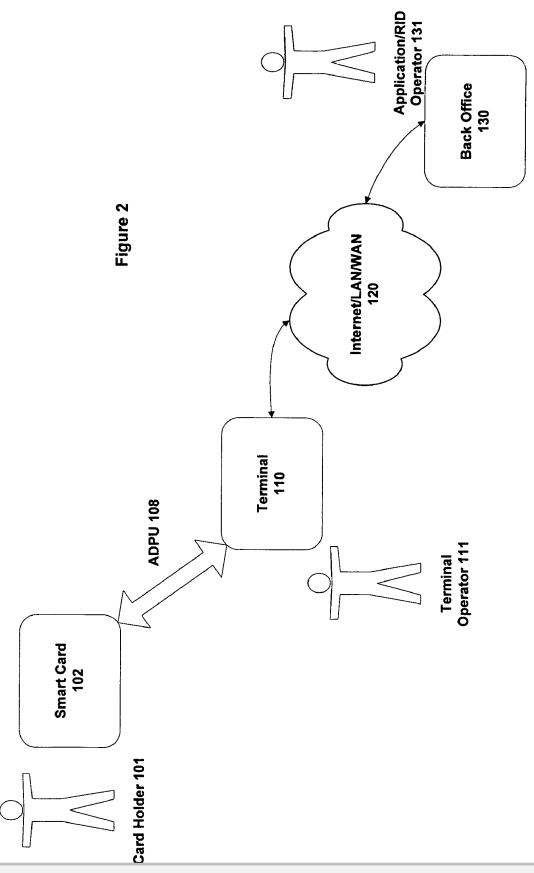
OSS-J Architecture Board, "OSS Through JavaTM J2EE Design Guidelines", OSS Through JavaTM, pp. 1-116, [Online] Oct. 31, 2001. (XP002325475).

* cited by examiner











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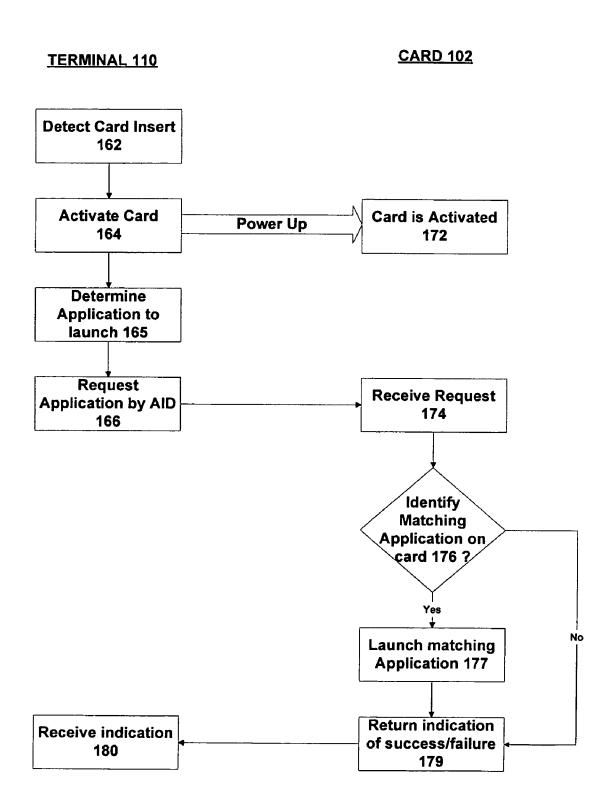


Figure 2A



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