



US008001055B2

(12) **United States Patent**
Weiss

(10) **Patent No.:** **US 8,001,055 B2**
(45) **Date of Patent:** ***Aug. 16, 2011**

(54) **METHOD, SYSTEM AND APPARATUS FOR SECURE ACCESS, PAYMENT AND IDENTIFICATION**

5,097,505 A 3/1992 Weiss
5,168,520 A 12/1992 Weiss
5,237,614 A 8/1993 Weiss
5,361,062 A 11/1994 Weiss
5,367,572 A 11/1994 Weiss
5,398,285 A 3/1995 Borgelt et al.

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(Continued)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 596 days.

This patent is subject to a terminal disclaimer.

FOREIGN PATENT DOCUMENTS

EP 0986209 3/2000

(Continued)

(21) Appl. No.: **11/677,490**

OTHER PUBLICATIONS

(22) Filed: **Feb. 21, 2007**

"FIPS PUB 46-3." Oct. 25, 1999. National Institute of Science and Technology (NIST). All pages.*

(65) **Prior Publication Data**

(Continued)

US 2007/0198436 A1 Aug. 23, 2007

Related U.S. Application Data

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(60) Provisional application No. 60/775,046, filed on Feb. 21, 2006, provisional application No. 60/812,279, filed on Jun. 9, 2006, provisional application No. 60/859,235, filed on Nov. 15, 2006.

(51) **Int. Cl.**
G08Q 20/00 (2006.01)

(57) **ABSTRACT**

(52) **U.S. Cl.** **705/76; 713/186; D14/480.4; 382/128; 382/129; 382/187**

According to one aspect, the invention provides a system for validating an identity of a user to enable or prevent an occurrence of an event. In one embodiment, the system includes a first device including a wireless transmitter which is configured to transmit validation information, a second device including a wireless receiver, where the second device is configured to receive the validation information and further transmit the validation information; and a secure system in communication with the second device. According to one embodiment, the secure system includes a database. In a further embodiment, the secure system is configured to receive the validation information transmitted from the second device, and to transmit additional information to the second device following a receipt of the validation information to assist the second device in either enabling or preventing the occurrence of the event.

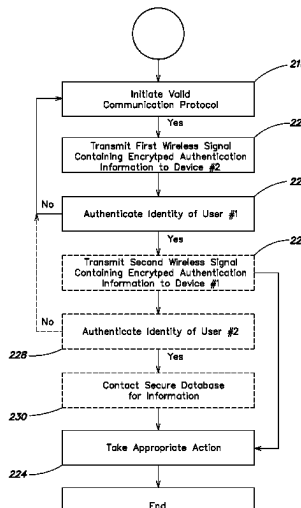
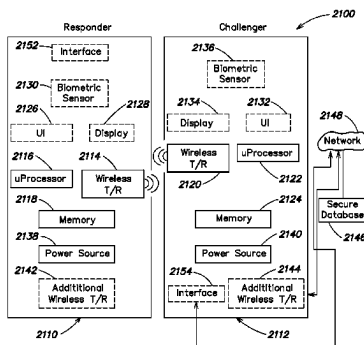
(58) **Field of Classification Search** **705/76**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,720,860 A 1/1988 Weiss
4,856,062 A 8/1989 Weiss
4,885,778 A 12/1989 Weiss
4,998,279 A 3/1991 Weiss
5,023,908 A 6/1991 Weiss
5,058,161 A 10/1991 Weiss

31 Claims, 28 Drawing Sheets



U.S. PATENT DOCUMENTS

5,479,512	A	12/1995	Weiss	
5,485,519	A	1/1996	Weiss	
5,657,388	A	8/1997	Weiss	
5,664,109	A	9/1997	Johnson et al.	
5,813,006	A	9/1998	Polnerow et al.	
5,915,023	A	6/1999	Bernstein	
6,073,106	A	6/2000	Rozen et al.	
6,130,621	A	10/2000	Weiss	
6,253,202	B1	6/2001	Gilmour	
6,253,203	B1	6/2001	O'Flaherty et al.	
6,260,039	B1	7/2001	Schneck et al.	
6,308,203	B1	10/2001	Itabashi et al.	
6,309,342	B1*	10/2001	Blazey et al.	600/26
6,393,421	B1	5/2002	Paglin	
6,516,315	B1	2/2003	Gupta	
6,546,005	B1	4/2003	Berkley et al.	
6,581,059	B1	6/2003	Barrett et al.	
6,640,211	B1	10/2003	Holden	
6,658,400	B2	12/2003	Perell et al.	
6,819,219	B1*	11/2004	Bolle et al.	340/5.52
6,845,448	B1	1/2005	Chaganti et al.	
6,941,271	B1	9/2005	Soong	
7,237,117	B2	6/2007	Weiss	
7,249,112	B2	7/2007	Berardi et al.	
7,278,026	B2	10/2007	McGowan	
7,489,781	B2	2/2009	Klassen et al.	
7,502,459	B1	3/2009	Moseley	
7,548,981	B1*	6/2009	Taylor et al.	709/227
7,571,139	B1	8/2009	Giordano et al.	
7,657,639	B2	2/2010	Hinton	
7,705,732	B2	4/2010	Bishop et al.	
2001/0032100	A1	10/2001	Mahmud et al.	
2001/0044900	A1	11/2001	Uchida	
2002/0046061	A1	4/2002	Wright et al.	
2002/0090930	A1	7/2002	Fujiwara et al.	
2002/0176610	A1*	11/2002	Okazaki et al.	382/118
2002/0178364	A1*	11/2002	Weiss	713/182
2003/0115490	A1	6/2003	Russo et al.	
2003/0123713	A1*	7/2003	Geng	382/118
2003/0129965	A1*	7/2003	Siegel	455/411
2003/0163710	A1*	8/2003	Ortiz et al.	713/186
2003/0226041	A1	12/2003	Palmer et al.	
2004/0017934	A1	1/2004	Kocher	
2004/0034771	A1	2/2004	Edgett et al.	
2004/0059923	A1*	3/2004	ShamRao	713/186
2004/0111625	A1	6/2004	Duffy et al.	
2004/0117215	A1	6/2004	Marchosky	
2004/0117302	A1	6/2004	Weichert et al.	
2004/0133787	A1	7/2004	Doughty	
2004/0151351	A1	8/2004	Ito	
2004/0188519	A1*	9/2004	Cassone	235/382
2004/0236699	A1	11/2004	Beenau et al.	
2005/0001711	A1	1/2005	Doughty et al.	
2005/0039027	A1	2/2005	Shapiro	
2005/0187843	A1	8/2005	Lapsley et al.	

2005/0210270	A1*	9/2005	Rohatgi et al.	713/186
2005/0235148	A1	10/2005	Scheidt et al.	
2005/0238208	A1	10/2005	Sim	
2006/0016884	A1	1/2006	Block et al.	
2006/0104486	A1	5/2006	Le Saint et al.	
2006/0122939	A1*	6/2006	Cohen et al.	705/59
2006/0165060	A1	7/2006	Dua	
2006/0256961	A1	11/2006	Brainard et al.	
2007/0040017	A1*	2/2007	Kozlay	235/380
2007/0079136	A1	4/2007	Vishik et al.	
2007/0124597	A1	5/2007	Bedingfield	
2007/0186105	A1	8/2007	Bailey et al.	
2008/0021997	A1	1/2008	Hinton	
2008/0212848	A1*	9/2008	Doyle	382/115
2008/0275819	A1*	11/2008	Rifai	705/44
2009/0144814	A1*	6/2009	Sacco	726/6
2009/0175507	A1*	7/2009	Schaffner	382/117

FOREIGN PATENT DOCUMENTS

EP	1081632	A1*	7/2001
GB	2 382 006		5/2003
WO	1992007436		4/1992
WO	1996036934		11/1996
WO	2002014985		2/2002

OTHER PUBLICATIONS

"PGP: An Introduction to Cryptography." 2000. All pages.*
 International Search Report from corresponding PCT/US2007/070701 mailed Mar. 11, 2008.
 International Search Report from co-pending PCT Application No. PCT/US2007/004646 mailed Nov. 27, 2007.
 Kessler, G. "An Overview of Cryptography." 22 Aug. 22, 2002. All pages. Retrieved via Wayback Machine on Jan. 19, 2010. <http://www.garykessler.net/library/crypto.html>.
 Pabrai, U. "Biometrics for PC-User Authentication: A Primer" Feb. 1, 2001. Access Controls & Security Systems. All pages. <http://www.securitysolutions.com/mag/security_biometrics_pcuser_authentication/index.html>.
 "Information Security: Challenges in Using Biometrics" Sep. 9, 2003. All pages. <<http://www.gao.gov/new.items/d031137t.pdf>>.
 Huntington, G. "101 Things to Know About Single Sign On." 2006. Authentication World. All pages. <<http://www.authenticationworld.com/Single-Sign-On-Authentication/101ThingsToKnowAboutSingleSignOn.pdf>>.
 "Single Sign on Authentication" Mar. 13, 2007. Authentication World. All pages. Retrieved Jul. 9, 2010 via Wayback Machine. <<http://web.archive.org/web/20070313200434/http://www.authenticationworld.com/Single-Sign-On-Authentication/>>.
 International Search Report from PCT/US2009/035282 mailed Jul. 10, 2009.
 Treasury Board of Canada Secretariat, PKI for Beginners Glossary, <http://www.tbs-sct.gc.ca/pki-icp/beginners/glossary-eng.asp>.

* cited by examiner

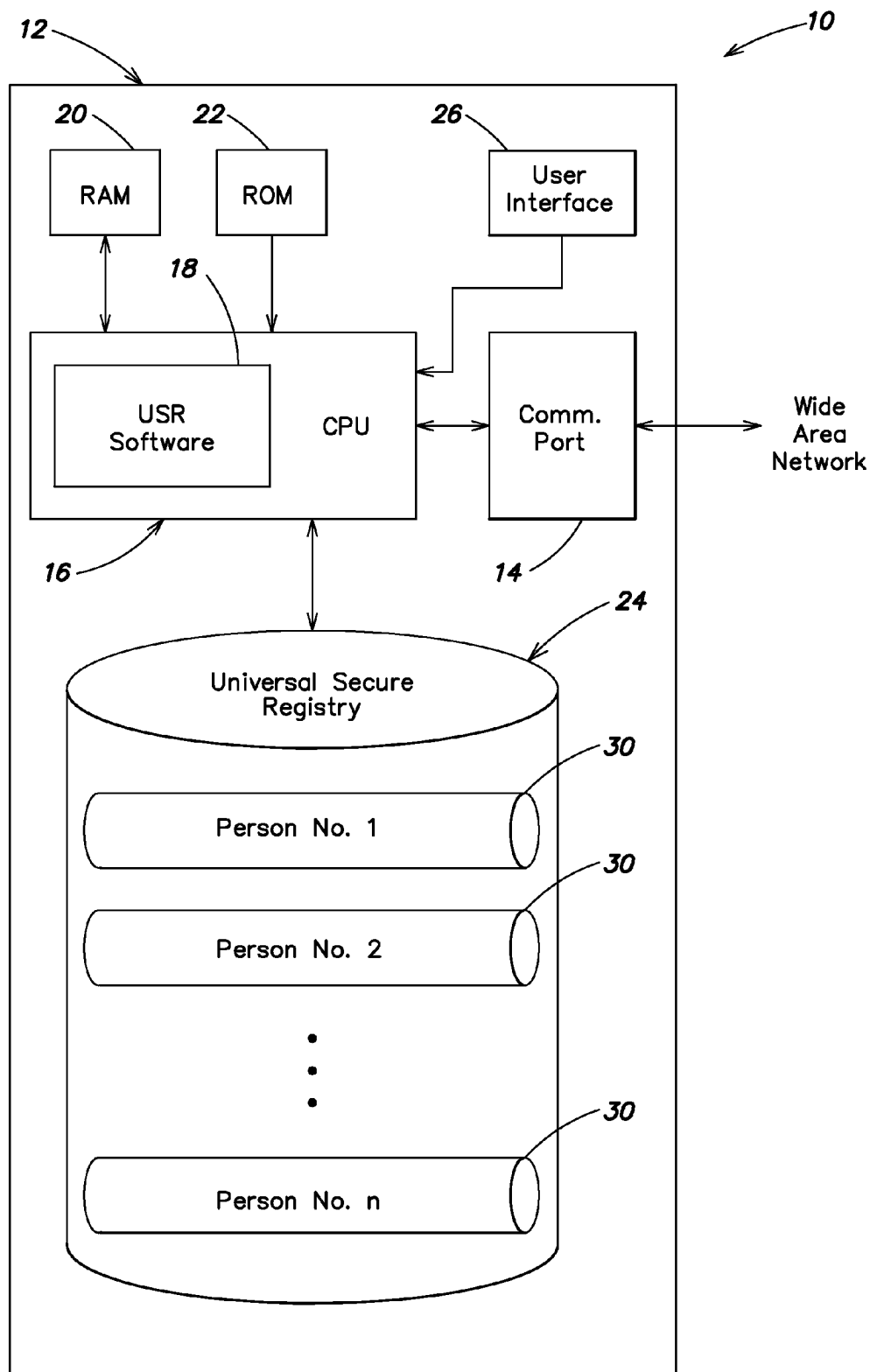


FIG 1

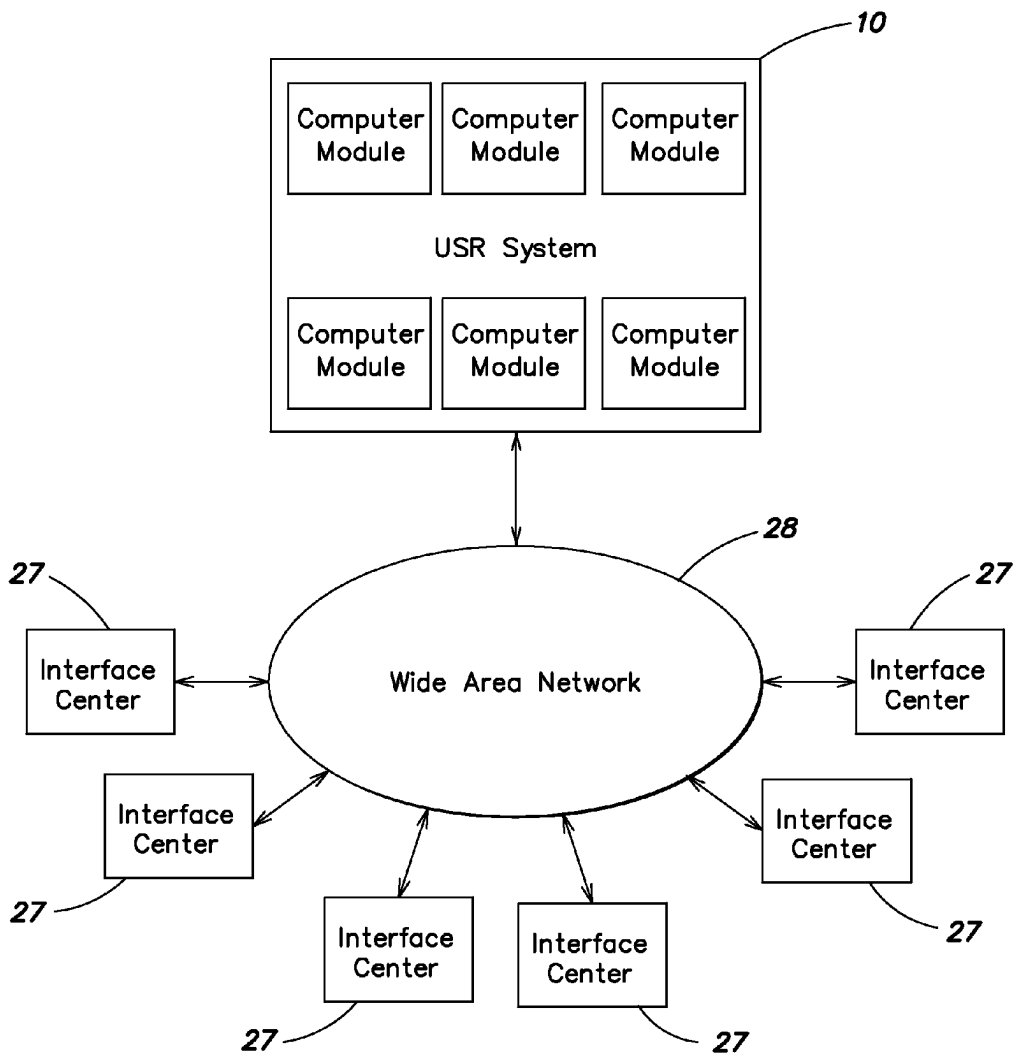


FIG. 2

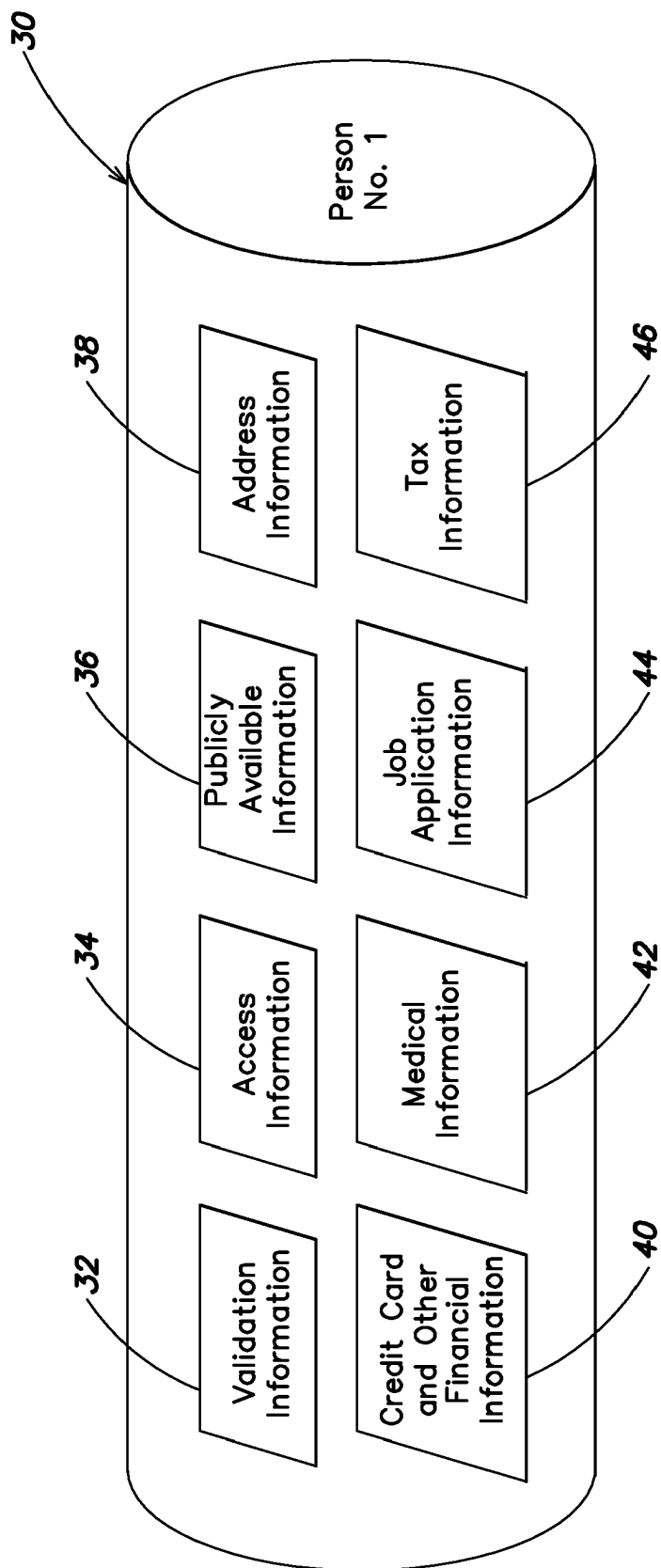


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