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- (71) Applicant (for all designated States except US): YAHOO! INC. [US/US]; D-274, 701 First Avenue, Sunnyvale, CA 94089 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): DELANY, Mark [AU/US]; 833 Shenandoah Drive, Sunnyvale, CA 94087 (US).
- (74)Agents: BRANCH, John, W. et al.; Darby & Darby P.C., P.O. Box 5257, New York, NY 10150-5257 (US).

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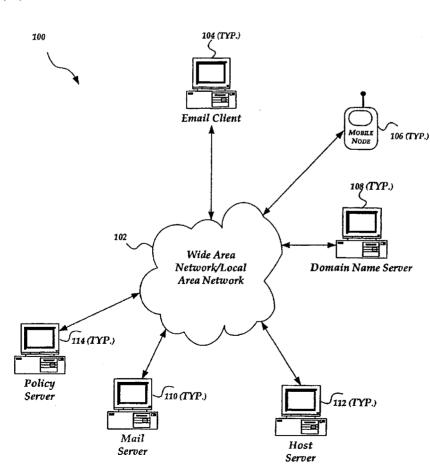
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(54) Title: METHOD AND SYSTEM FOR AUTHENTICATING A MESSAGE SENDER USING DOMAIN KEYS



(57) Abstract: A method and system is directed to providing policies for handling authenticated messages, such, as email (104), and the like, by combining Public Key encryption and the Internet Domain Name System (108) (the "DNS"). The policies include system (712), user (716), statistics (720), new domain (706), unverified domain (708), and third party (724). A domain owner (402) may validate that an email originates jOrom an authorized sender within their domain by using a private key component to digitally sign email outbound from its domain. Employing a public key component, along with a selector, an email recipient (616) may check the validity of the signature, and thus determine that the email originated from a sender authorized by the domain owner (402). In one embodiment the public key component used to verify an email signature may be "advertised" or otherwise made available via a TXT record in the DNS.

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A. CLASSIFICATION OF SUBJECT MATTER IPC: H04L 9/00(2007.01)				
USPC:	713/176			
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B. FIEL	DS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)				
U.S.: 713/176				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Hotot(npl): encryption "domain name server"authenticate content message signature certificate public policy				
Electronic da	ta base consulted during the international search (nam	e of data base and, where practicable, sea	rch terms used)	
}				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	opropriate of the relevant passages	Relevant to claim No.	
A,P	US 6,823,454 B1 (HIND et al) 23 November 2004 (1-28	
		·	1.40	
A,P US 2004/0083306 A1 (GLOE) 29 april 2004 (29.04.		2004), entire document	1-28	
A,E	US 6,986,037 B1 (ASSMANN) 10 January 2006 (10	.01.2006), entire document	1-28	
x	US 6,389,532 B1 (GUPTA et al) 14 May 2002 (14.05.2002), entire document		1-28	
A	US 6,119,234 (AZIZ et al) 12 September 2000 (12.09.2000), entire document		1-28	
A	US 5,757,920 (MISRA et al) 26 May 1998 (26.05.1998), entire document		1-28	
A	A US 5,555,309 (KRUYS) 10 September 1996 (10.09.1996), entire document		1-28	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
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