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(54) Title: SYSTEM AND METHODS FOR ONLINE AUTHENTICATION

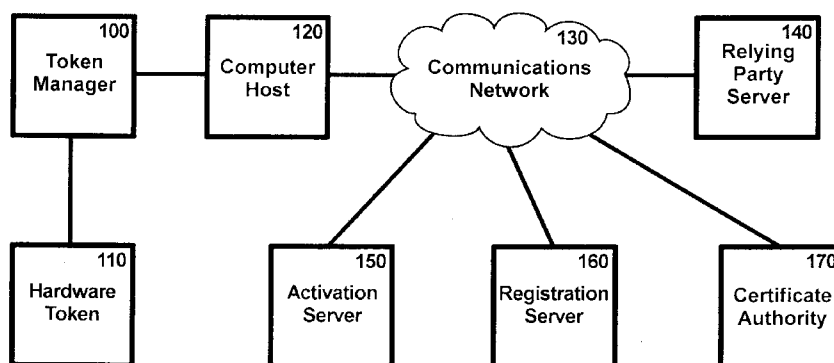


Figure 1

(57) Abstract: A method of establishing a communication channel between a network client and a computer server over a network is described. The network client may be configured to communicate with the computer server over the network and to communicate with a token manager. The token manager may be configured with a parent digital certificate that is associated with the token manager. The token manager or network client generates a credential from the parent digital certificate, and transmits the credential to the computer server. The credential may be associated with the computer server. The network client may establish the communications channel with the computer server in accordance with an outcome of a determination of validity of the credential by the computer server.



WO 2010/063091 A3

Declarations under Rule 4.17:

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- *of inventorship (Rule 4.17(iv))*

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)
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 Keywords: token/card, client/user, code/key/password/certificate, generate/create, credential/crypt*/key/certificate/signature, transmit/send, server/source, valid/check/compare, authenticat*/identif*

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/0212771 (Hauser) 4 September 2008 (04-09-2008) Abstract;	1, 2, 9, 13 to 15, 17, 19, 20, 22 to 29, 37 to 41, 44, 47
Y	Figs. 1-10; [0044]-[0046]; [0048]-[0094]; claims 1-5	5, 10 to 12, 16, 21, 30, 34 to 36, 42
Y	WO 2006/065002 A1 (Kim et al.) 22 June 2006 (22-06-2006) Abstract	5, 16, 30, 42
Y	CN 1956376 A (Li et al.) 2 May 2007 (02-05-2007) English Abstract	10 to 12, 21, 34 to 36
A	US 7,254,561 B1 (Sjoblom) 7 August 2007 (07-08-2007) the whole document	1 to 47

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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Information on patent family members

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