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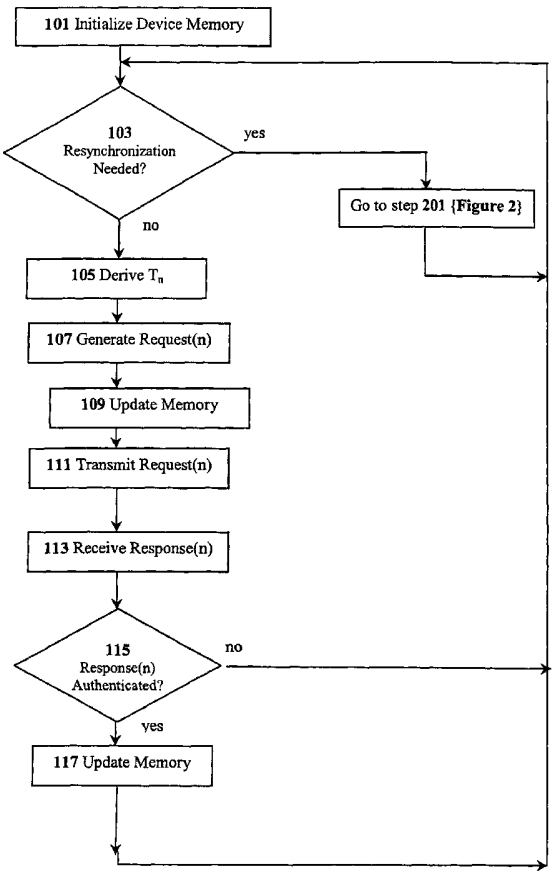
[Continued on next page]

(54) Title: CRYPTOGRAPHIC DATA SECURITY SYSTEM AND METHOD



(57) Abstract: A method for communicating between a computer device and a trusted server is disclosed. According to the method of the invention, a one-time password for use in communication from the device (105) to the server is generated. The device (105) generates at least one on-time request-authentication datum (107) that includes a function of at least a portion of a previous response (113) from the server to previous message from the device (105). The server then generates at least one on-time response authentication datum (113) that includes a function of at least a portion of at least one-time password.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/46290

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : H04L 9/32
US CL : 713/202
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 380/21,23,25,37, 43, 49,50

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,841,871 B1 (PINKAS) 24 November 1998 (24.11.1998), abstract, column 4, lines 1-67, column 9, column 5, lines 9-20, column 9, lines 34-65, Fig. 1-2. Column 9, lines 13-34, column 12, line30-45	1-10 ---------- 11-36
Y, P	US 6,148,404 A (YATSUKAWA) 14 November 2000 (14.11.2000), abstract, column 15, lines 20-64, lines 65-67 through column 16, lines 1-2, lines 33-67, column 17, lines 1-35, lines 65-67 through column 18, lines 1-9, Fig.16, column 19, lines 46-67, column 23, lines 26-47, column 24, lines 38-65.	11-36
Y	US 5,661,807 A (GUSKI et al) 26 August 1997 (26.08.1997), the entire document.	1-36
Y	5,241,599 A (BELLOVIN et al.) 31 August 1993 (31.08.1993), the enitire document.	1-36

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

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Continuation of B. FIELDS SEARCHED Item 3:
WEST, Dialog, ProQuest, Dogpile. Search Terms: one time password and authentication, kerberos password and one time password, password and authentication, client/server session key.