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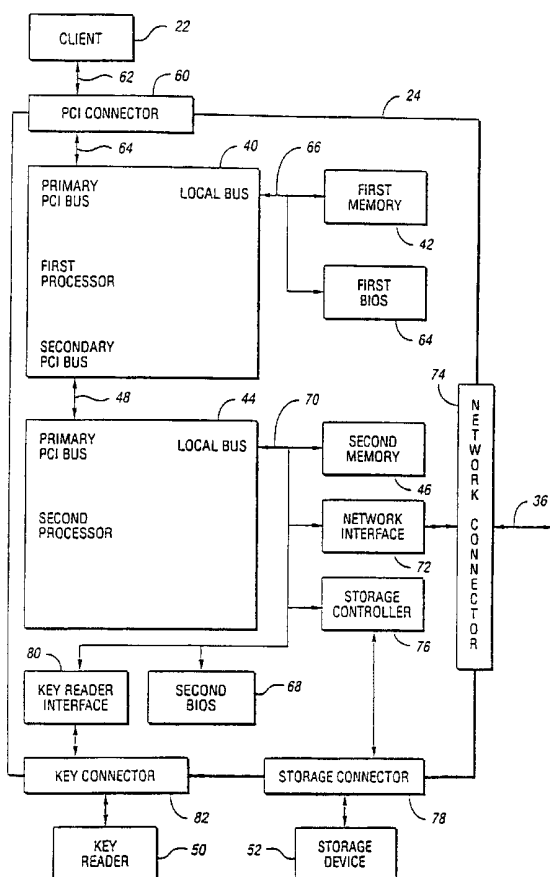
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(54) Title: INFORMATION ENCRYPTION SYSTEM AND METHOD



(57) Abstract: An encryption system permits end-to-end encryption of information over an untrusted interconnection network. The information encryption system includes at least one client for processing information. The system also includes at least one storage device for holding the information. At least one key server provides a data key for encrypting and decrypting the information. An encryption module is associated with each client. Each encryption module has a first processor accessing a first memory and a second processor accessing a second memory different from the first memory. The first processor communicates with the associated client. The second processor communicates with the storage device. The first processor communicates with the second processor through a dedicated channel. The second processor obtains the data key from the key server. Information is received from the first processor over the dedicated channel and encrypted using the data key. The encrypted information is then stored on the storage device. The second processor also reads the encrypted information from the storage device, decrypts the information using the data key, and sends the decrypted information to the first processor over the dedicated channel.

WO 00/72500 A3



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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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 practical, search terms used)

WPI Data, PAJ, INSPEC, EPO-Internal, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 14881 A (OBER TIMOTHY ; REED PETER (US); DOUD ROBERT WALKER (US); INFORMATIO) 25 March 1999 (1999-03-25) abstract page 7, paragraph 1 page 10, line 5 - line 21 page 12, line 14 - line 18 page 279, line 5 - line 13 ---	1, 11, 19, 21
A	US 5 495 533 A (LINEHAN MARK H ET AL) 27 February 1996 (1996-02-27) abstract -----	1, 11, 19, 21

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9914881 A	25-03-1999	AU 1060999 A EP 1013026 A	05-04-1999 28-06-2000
US 5495533 A	27-02-1996	NONE	