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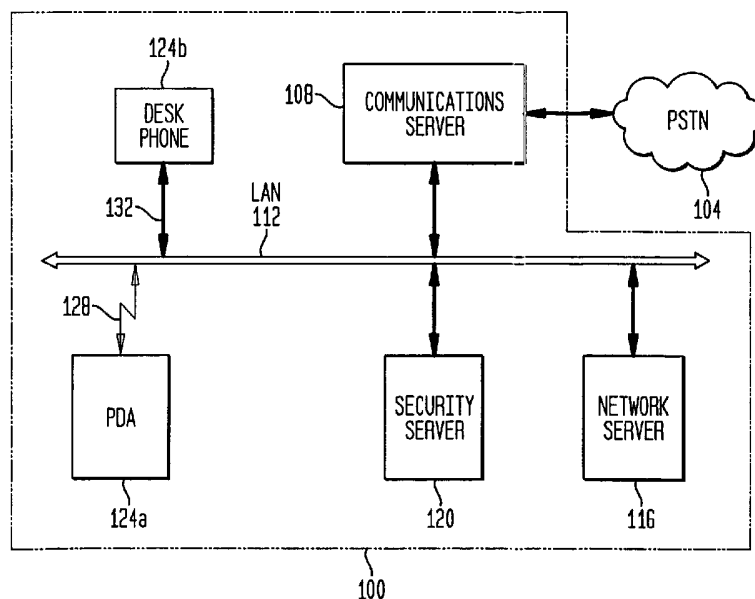
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(54) Title: METHOD AND APPARATUS FOR PROVIDING COMMUNICATIONS SECURITY USING A REMOTE SERVER



(57) Abstract: A communications system featuring a remote security server (120) is provided. The system allows the validation of requests for access to a communications network (112) to be performed implemented, without the need to distribute a security algorithm to individual client devices. In addition, changes to the security algorithm can easily be made, because such changes need only be made in the security server itself, and in the communications server (116) to which access is desired. The present invention is particularly useful in connection with communication services provided as part of a private branch exchange.



WO 03/010892 A3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/13794**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :H04K 1/00

US CL : 713/185

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. : 713/185

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Menezes, Handbook of Applied CryptographyElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
West, STN, Dialog**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,978918 A (SCHOLNICK et. al.) 2 November 1999, col. 3, 5-7	1-21
Y	US 6122631 A (BERBEC et. al.) 19 September 2000, Col. 3-6	1-21
Y	US 6061741 A (MURPHY et. al.) 09 May 2000, Col. 2-7	1-21
Y	US 5491752 A (KAUFMAN et. al.) 13 February 1996, Col. 6-11	1-21

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

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "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		"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 "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 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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