United States Patent [19]

Lang

[11] **Patent Number: 5,065,429**

[45] **Date of Patent: Nov. 12, 1991**

[54] **METHOD AND APPARATUS FOR PROTECTING MATERIAL ON STORAGE MEDIA**

[76] Inventor: **Gerald S. Lang**, 812 Downs Dr., Silver Spring, Md. 20904

[21] Appl. No.: **626,409**

[22] Filed: **Oct. 14, 1990**

Related U.S. Application Data

[63] Continuation of Ser. No. 358,263, May 30, 1990, abandoned, which is a continuation-in-part of Ser. No. 331,800, Apr. 3, 1989, abandoned.

[51] **Int. Cl.**[5] **H04K 1/00**

[52] **U.S. Cl.** **380/25**; 380/4; 380/23

[58] **Field of Search** 380/4, 23, 24, 25, 49, 380/50; 364/246.6, 246.9, 969, 969.3, 969.4

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Primary Examiner—Thomas H. Tarcza
Assistant Examiner—Tod Swann
Attorney, Agent, or Firm—Hoffman, Wasson & Gitler

[57] **ABSTRACT**

A method and apparatus for granting selected access to material such as data and databases, messages and other textual information, graphs, tables, maps, facsimiles (FAX) of all manner of transmitted materials, audio such as speech and music, video, images, and photographs, provided on storage media utilizing information encoded in the storage media. The storage media are included in one or more reading devices associated with a computer. A storage accessing device, such as a smart card, is used in conjuction with the computer to determine whether access to a particular user to specific storage media is granted. The storage media can be sub-divided into a plurality of logical zones and access to all or a portion of the material on the storage media is granted based upon the logical zones to which the user is allowed access. Information provided on the storage media would include an index table listing the security identification code, the logical zones to which a particular user is assigned as well as a personal security key used in conjunction with a personal security key provided in the smart card. The interaction between the user's personal accessing device and the index table provided on the storage media determine if access is granted as well as access privileges accorded to the user.

24 Claims, 4 Drawing Sheets

	SECURITY IDENTIFICATION CODE		
LOGICAL ZONES	ZONE ACCESS CODES	SYSTEM IDENTIFICATION CODES	PERSONAL SECURITY KEYS
1,9,26	01	000000 ⋮ 087144	XXXX ⋮ XXXX
1,9,26,99	02	000000 ⋮ 029142	XXXX ⋮ XXXX
33	27	000000 ⋮ 006104	XXXX ⋮ XXXX
10,11	33	000010 ⋮ 000018	XXXX ⋮ XXXX
10,11,99	34	550000 ⋮ 550003	XXXX ⋮ XXXX
46,47,48,54	81	300000 ⋮ 308156	XXXX ⋮ XXXX
36	32	34	38

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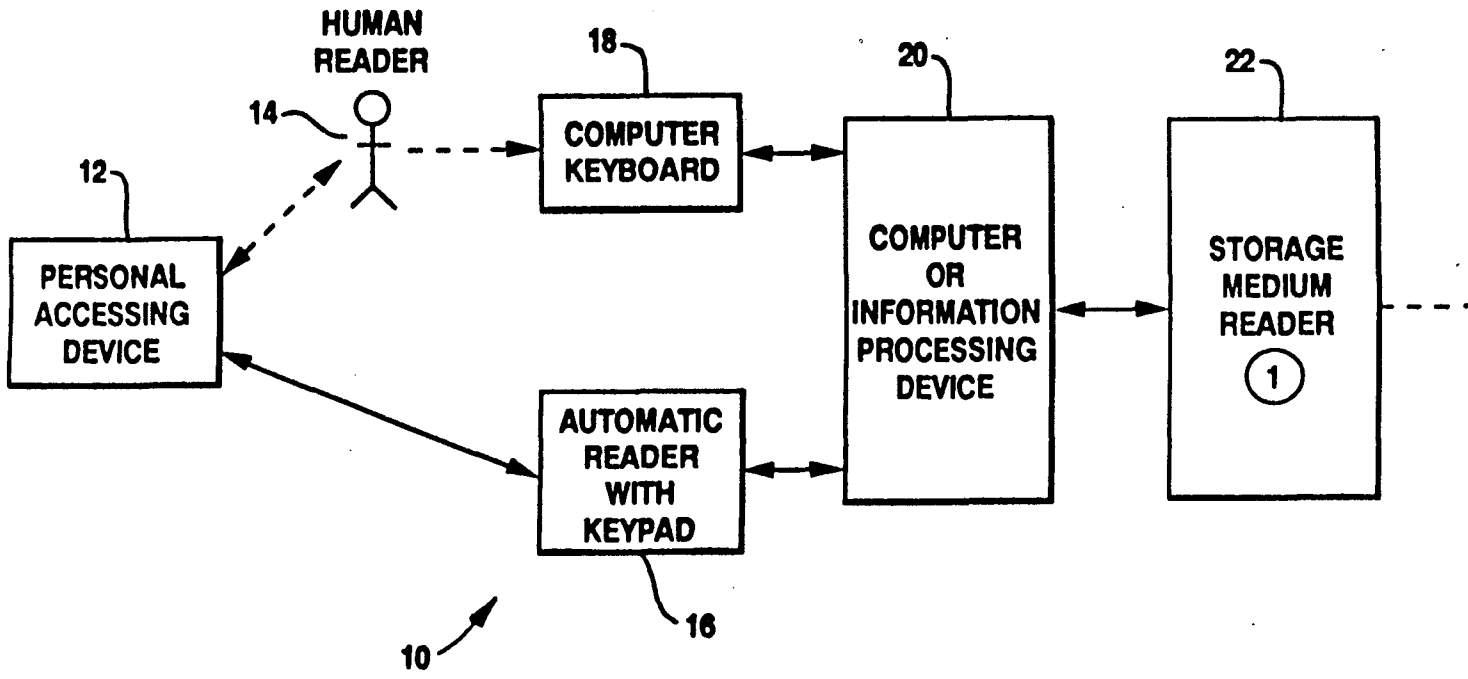
FIG. 1



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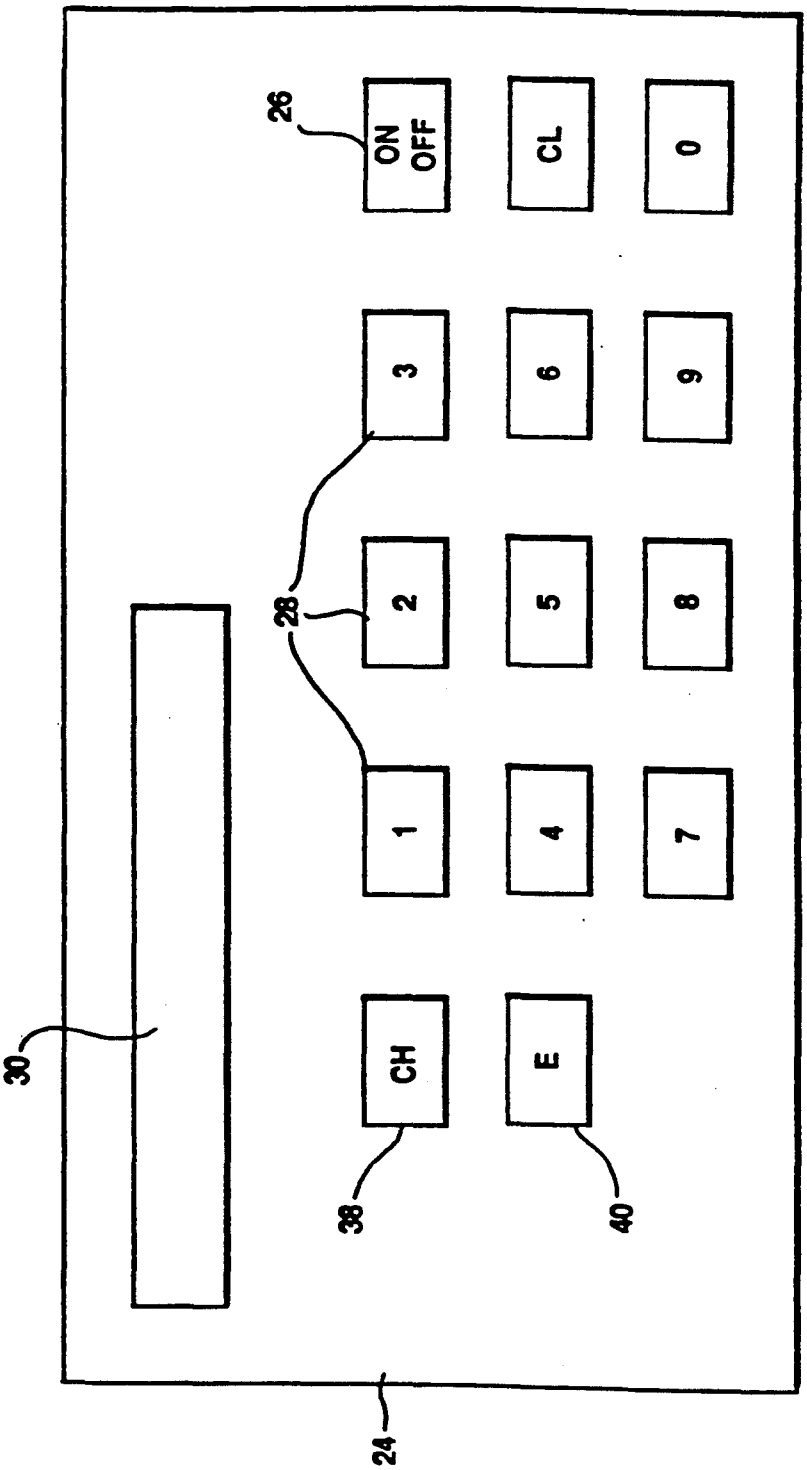

FIG. 2

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FIG. 3

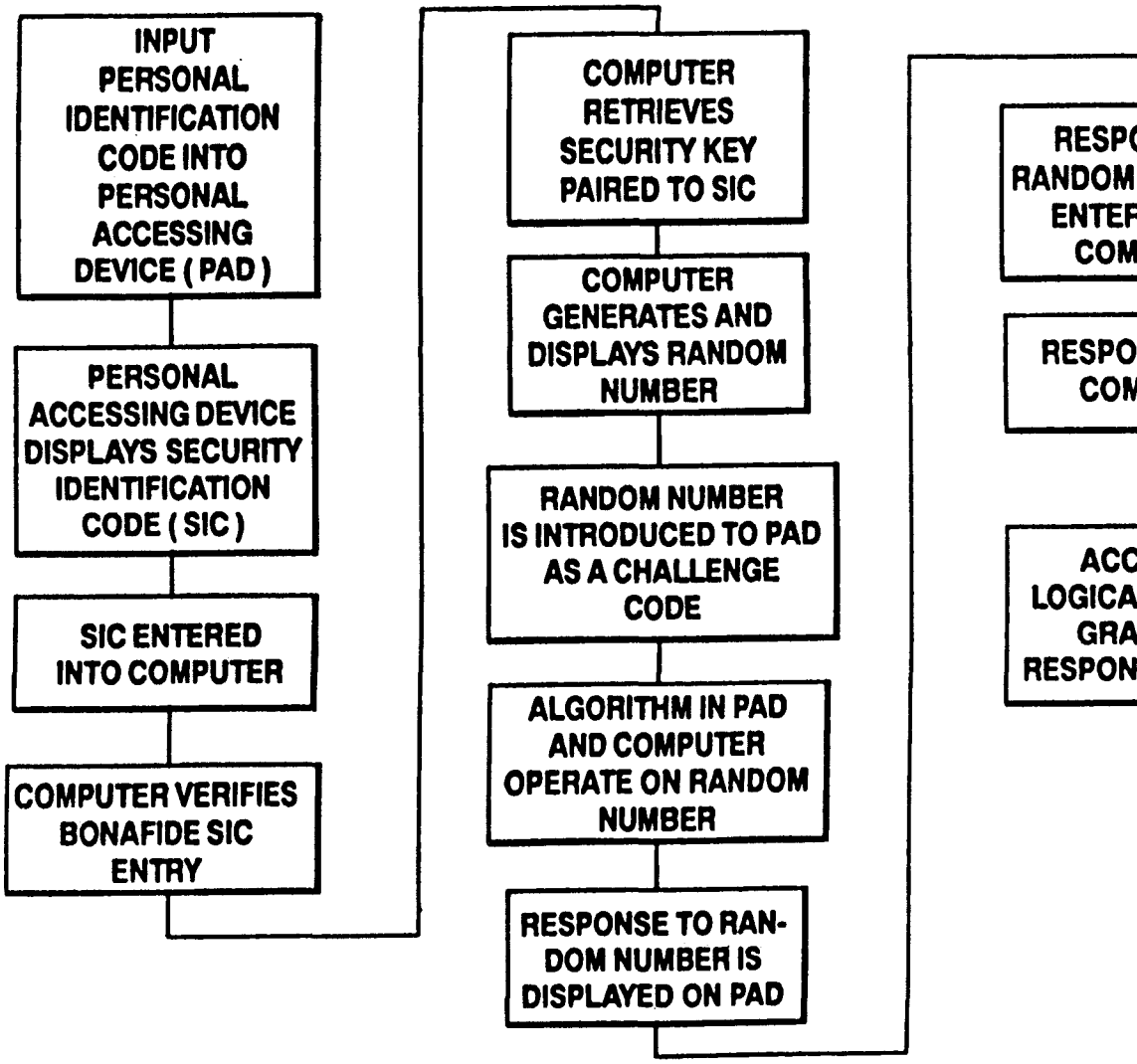

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FIG. 4

STORAGE MEDIUM INDEX TABLE

LOGICAL ZONES	SECURITY IDENTIFICATION CODE		
	ZONE ACCESS CODES	SYSTEM IDENTIFICATION CODES	PERSONAL SECURITY KEYS
1,9,26	01	000000	XXXX
		087144	XXXX
1,9,26,99	02	000000	XXXX
		029142	XXXX
33	27	000000	XXXX
		006104	XXXX
10,11	33	000010	XXXX
		000018	XXXX
10,11,99	34	550000	XXXX
		550003	XXXX
46,47,48,54	81	300000	XXXX
		308156	XXXX
36	32	34	38

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