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# United States Patent [19]

[11] Patent Number: **5,533,125**

Bensimon et al.

[45] Date of Patent: **Jul. 2, 1996**

[54] <b>REMOVABLE COMPUTER SECURITY DEVICE</b>	4,864,542	9/1989	Oshima et al. ....	365/189.01
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	4,910,774	3/1990	Barakat .....	380/23
[75] Inventors: <b>Daniel Bensimon</b> , Boca Raton; <b>Neal A. Osborn</b> , Delray Beach; <b>Joaquin F. Pacheco</b> , Boca Raton, all of Fla.	4,932,053	6/1990	Fruhauf et al. ....	380/4
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[73] Assignee: <b>International Business Machines Corporation</b> , Armonk, N.Y.	5,048,085	9/1991	Abraham et al. ....	380/23
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[21] Appl. No.: <b>503,536</b>	5,131,091	7/1992	Mizuta .....	395/725
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[22] Filed: <b>Jul. 18, 1995</b>	5,282,247	1/1994	Mclean et al. ....	380/4

### Related U.S. Application Data

- [63] Continuation of Ser. No. 397,017, Mar. 1, 1995, abandoned, which is a continuation of Ser. No. 43,425, Apr. 6, 1993, abandoned.
- [51] Int. Cl.<sup>6</sup> ..... **H04K 1/00**
- [52] U.S. Cl. .... **380/4; 380/23; 380/25**
- [58] Field of Search ..... **380/3, 4, 23, 25, 380/49, 50; 235/379, 380, 382**

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Primary Examiner—David C. Cain

### [57] ABSTRACT

An intelligent removable information storage device (100), for coupling to a host microcomputer system (10), includes a local processor unit (106) including apparatus for preventing the microcomputer system from reading from, or writing to, the storage device absent the entry of an appropriate password by a user of the host microcomputer system. The storage device also includes a storage medium (e.g., a magnetic disk) for storing information including at least one password. The local processor unit includes apparatus for preventing access to the information stored in the storage means absent receipt of a valid password.

10 Claims, 5 Drawing Sheets

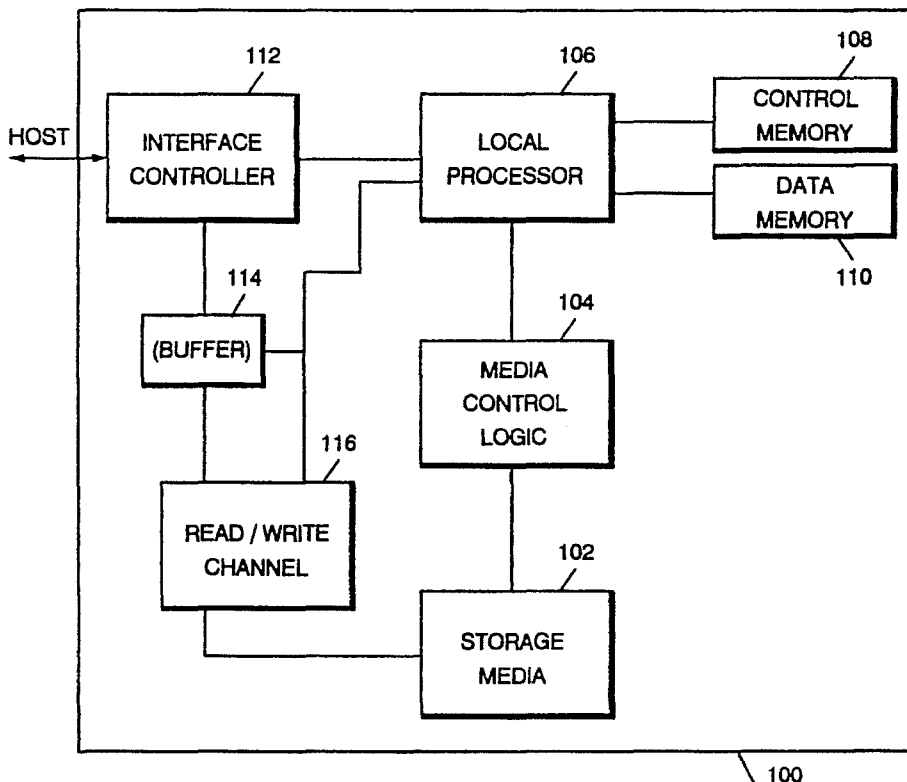


FIG. 1

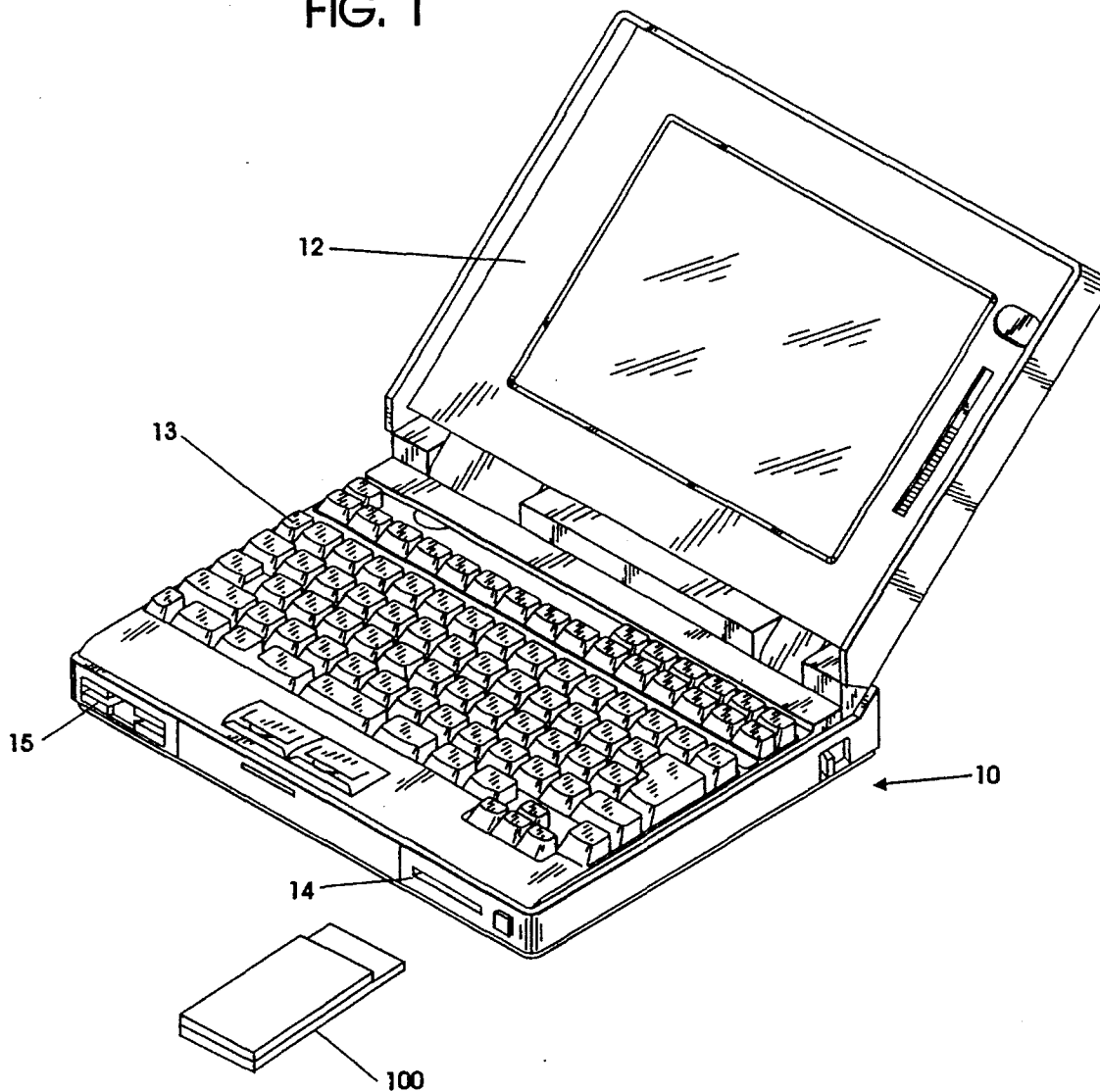


FIG. 2A

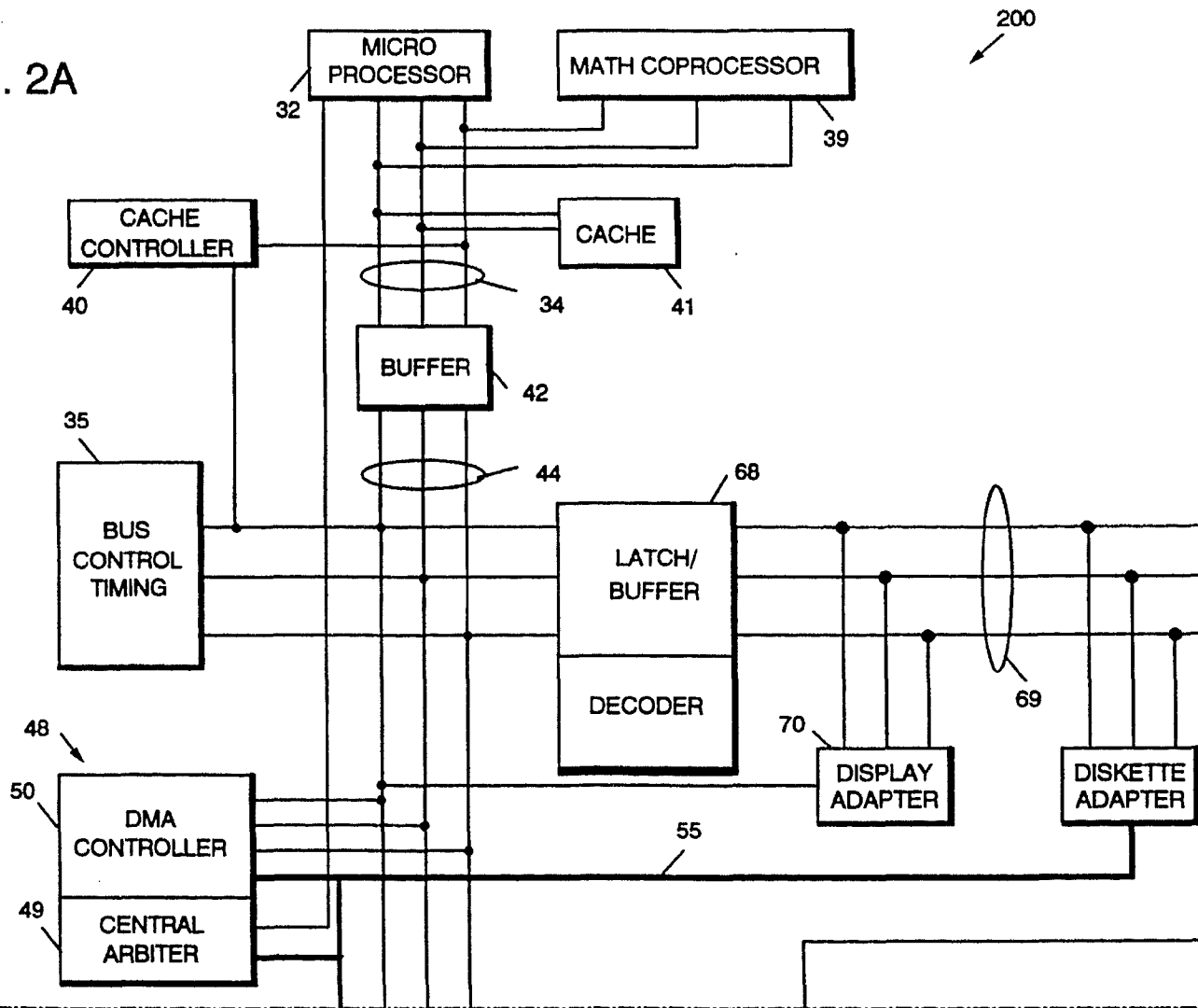


FIG. 2B

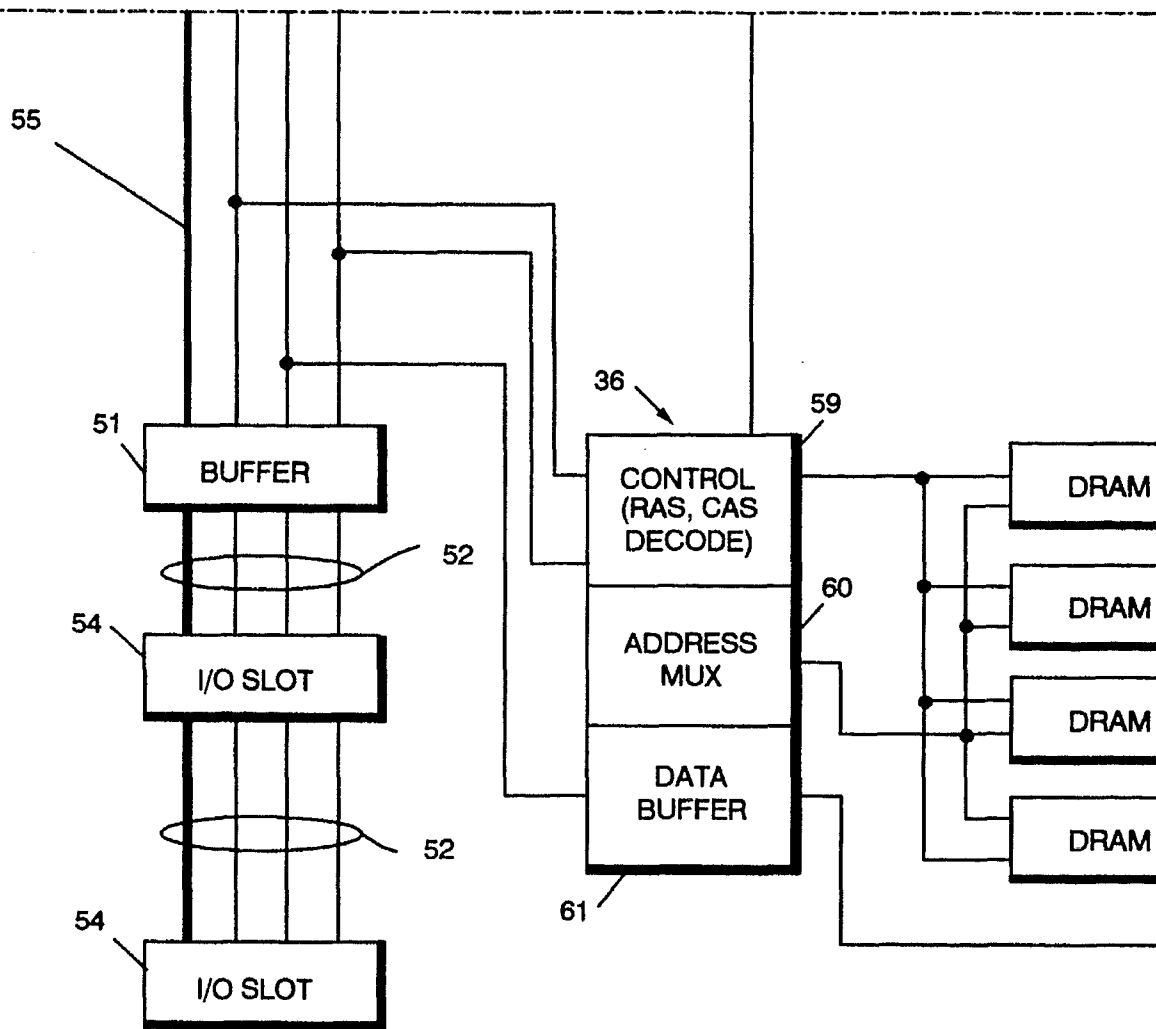
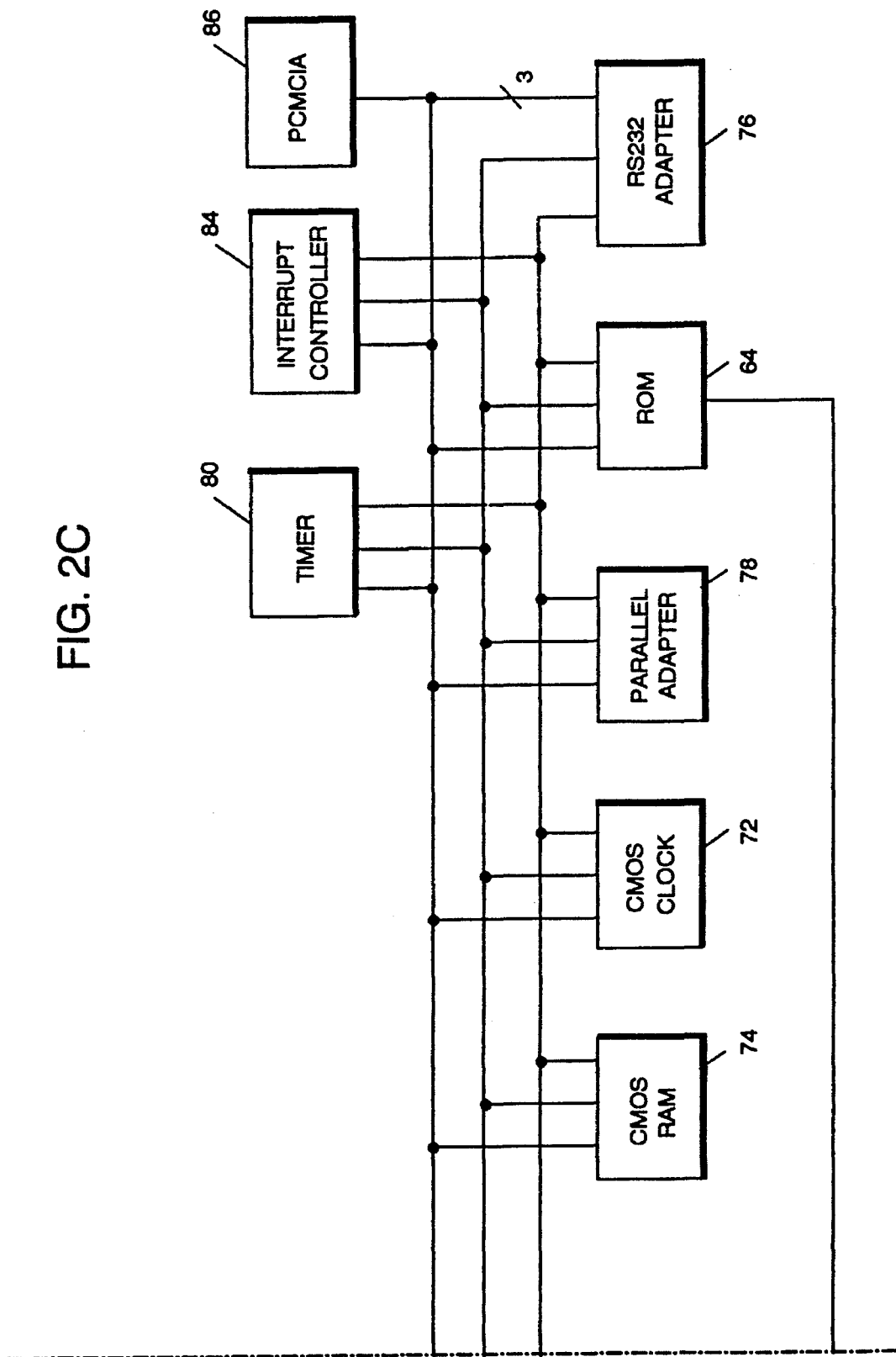


FIG. 2C



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