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(12) **United States Patent**  
**Uchida**

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(54) **DATA PROTECTION METHOD FOR A REMOVABLE STORAGE MEDIUM AND A STORAGE DEVICE USING THE SAME**

5,796,943 A \* 8/1998 Fujioka ..... 713/202

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(75) Inventor: **Yoshiaki Uchida**, Kawasaki (JP)

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(73) Assignee: **Fujitsu Limited**, Kawasaki (JP)

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(21) Appl. No.: **09/139,485**

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(30) **Foreign Application Priority Data**

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(51) **Int. Cl.**  
**G06F 11/30** (2006.01)

(52) **U.S. Cl.** ..... **713/189**; 713/193

(58) **Field of Classification Search** ..... 713/193,  
713/163, 200, 202, 165-167, 176, 189; 380/203;  
711/163; 360/60; 386/94  
See application file for complete search history.

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(57) **ABSTRACT**

A data protection method is used for protecting data recorded on a removable storage medium, such as an optical magnetic disk. The method includes the steps of authorizing to read and access a part of a directory area on a storage medium without specifying a password given to the removable storage medium. When accessing the removable storage medium, a user is required to input a password, the inputted password is compared with a predetermined password, and if not coincident, access is inhibited, and further, if coincident, it is permitted to access only one part of an area of the removable storage medium.

**22 Claims, 13 Drawing Sheets**

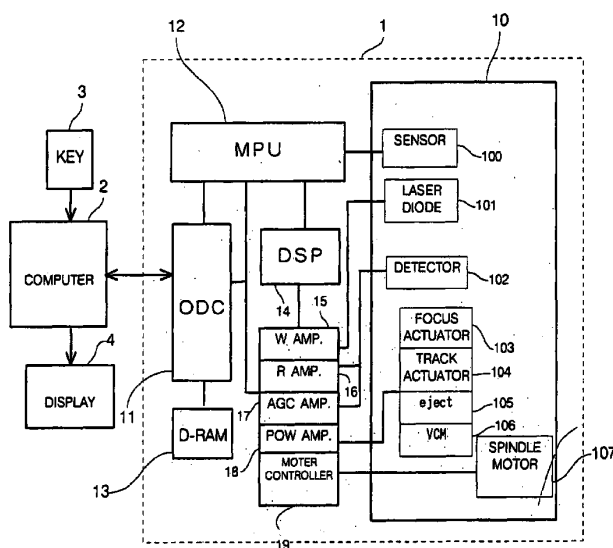


FIG. 1

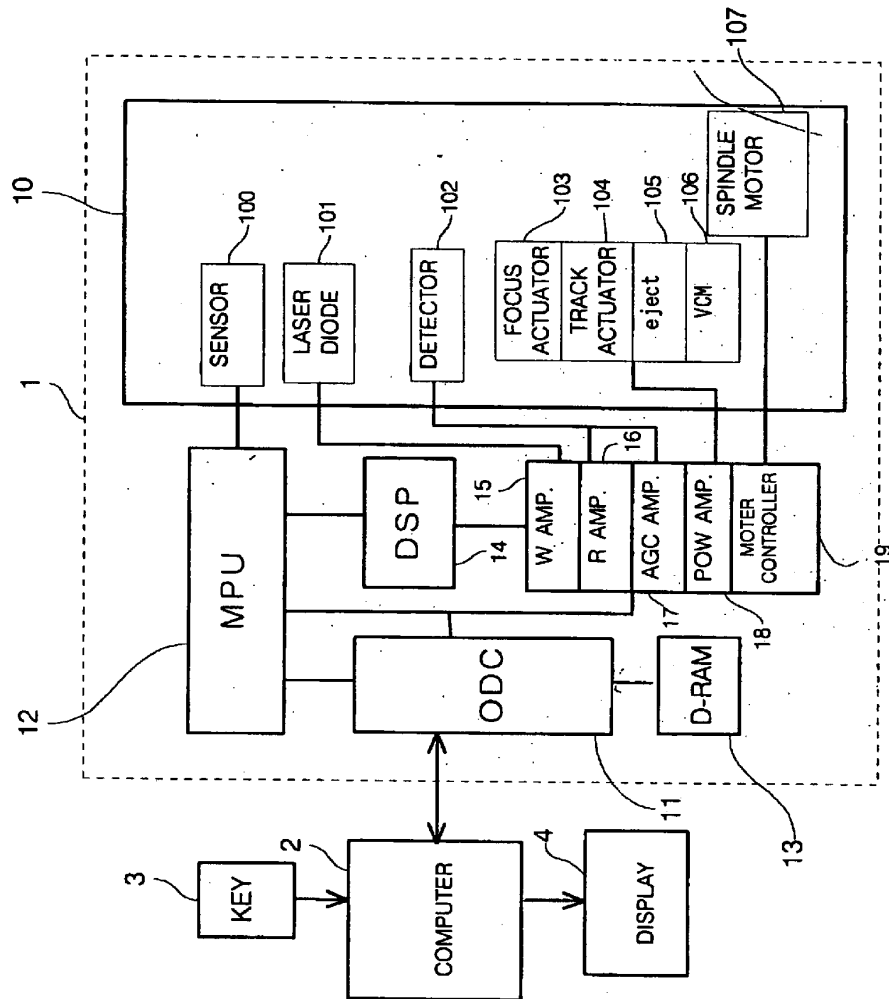


FIG. 2

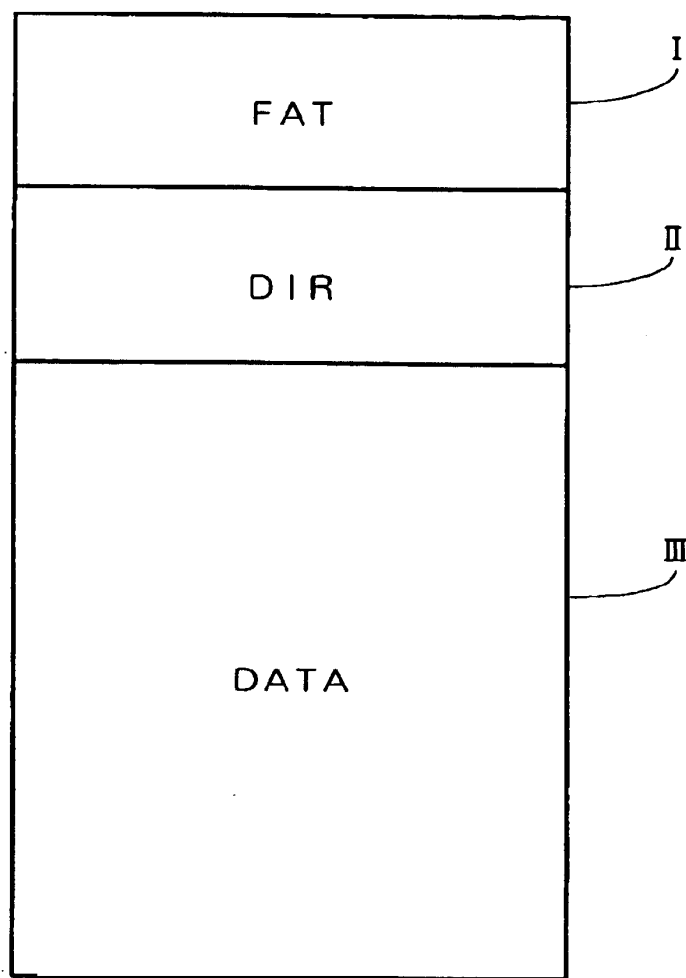


FIG. 3

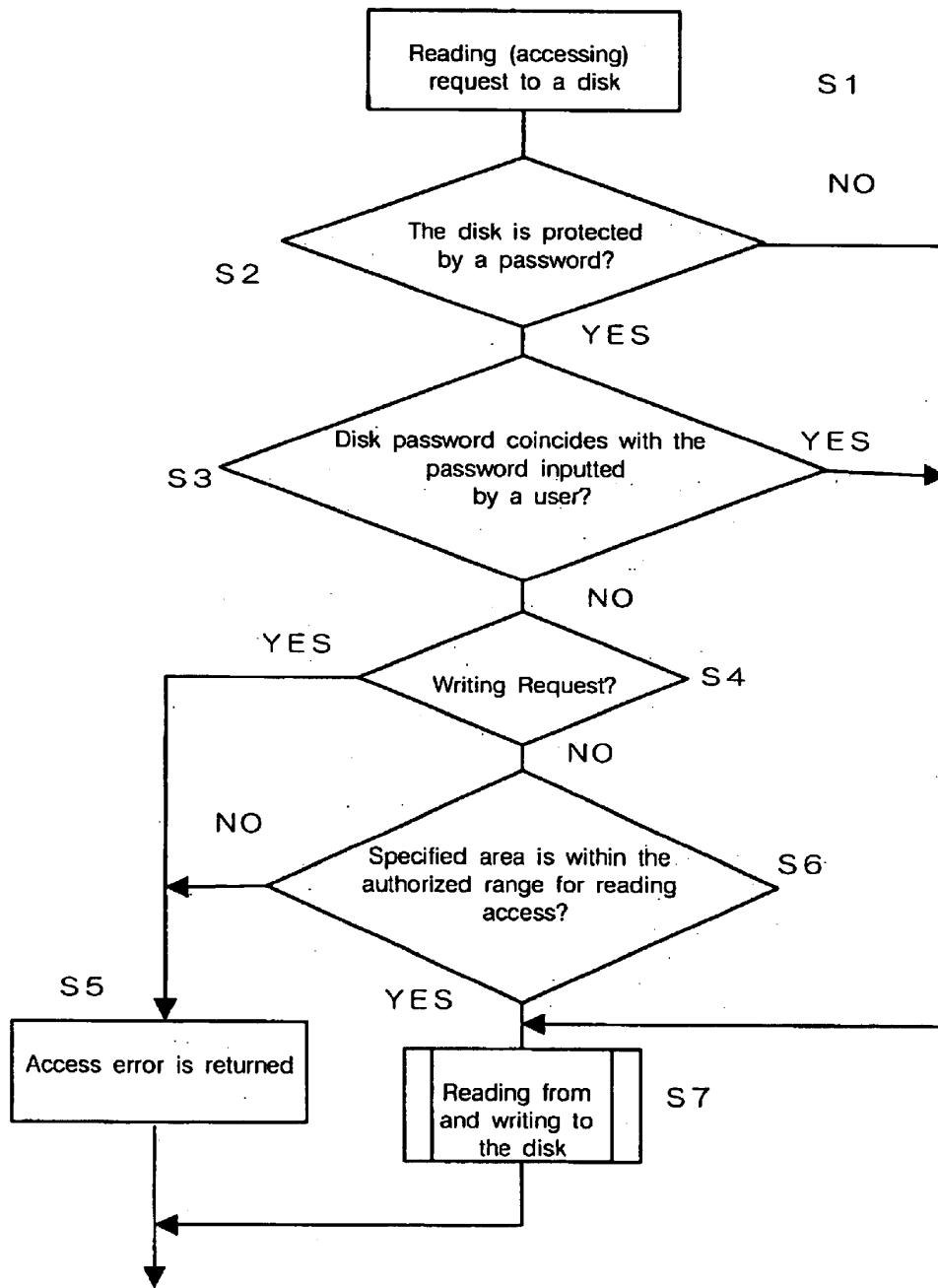
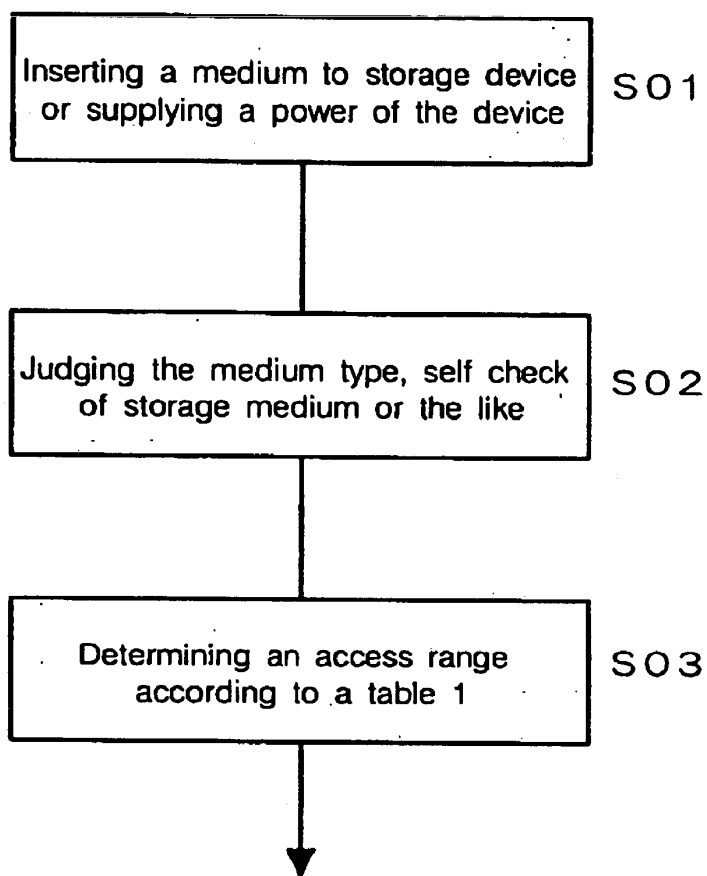


FIG. 4



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