

- [54] **DATA PROCESSING SYSTEM HAVING AUTOMATIC CONFIGURATION**
- [75] **Inventors:** Bakul V. Shah; James A. Maskevitch, both of Palo Alto, Calif.
- [73] **Assignee:** Fortune Systems Corporation, San Carlos, Calif.
- [21] **Appl. No.:** 520,354
- [22] **Filed:** Aug. 4, 1983
- [51] **Int. Cl.⁴** G06F 3/00
- [52] **U.S. Cl.** 364/200
- [58] **Field of Search** ... 364/200 MS File, 900 MS File, 364/300

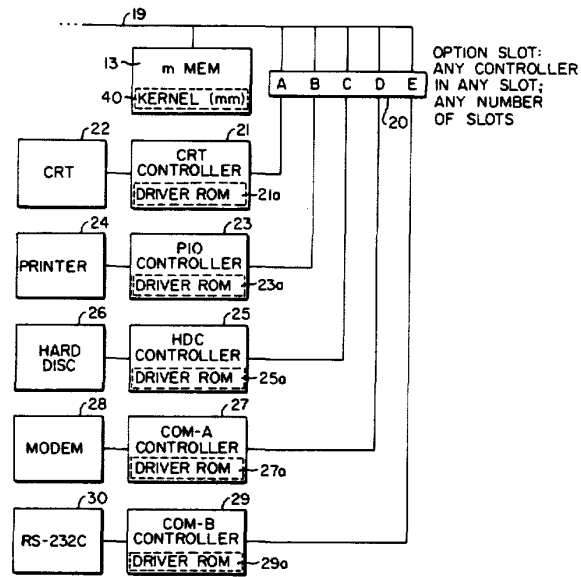
Primary Examiner—Raulfe B. Zache
Attorney, Agent, or Firm—Townsend & Townsend

[57] **ABSTRACT**

A method and apparatus for automatic configuration of a computer system is provided wherein one or more system peripheral or I/O devices can be interfaced to the computer system through I/O boards that plug into a system motherboard. Each of the I/O devices includes a controlling device driver module that operates under a program code stored in a read only memory resident on the I/O board and by which the device driver module allows the computer system to communicate with its associated peripheral and I/O devices. Accordingly, a system user is not required to change the computer operating system kernel to support each new I/O device or system configuration change.

- [56] **References Cited**
- U.S. PATENT DOCUMENTS**
- 4,438,493 3/1984 Cushing et al. 364/200
- 4,491,916 1/1985 Vallhonrat 364/200

13 Claims, 8 Drawing Figures



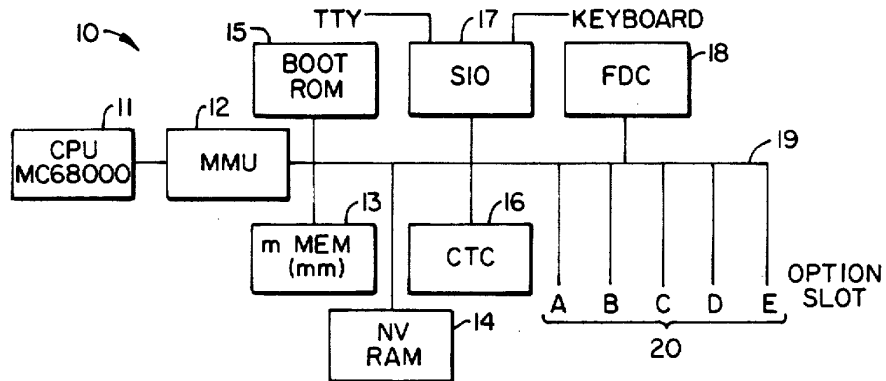


FIG. 1.

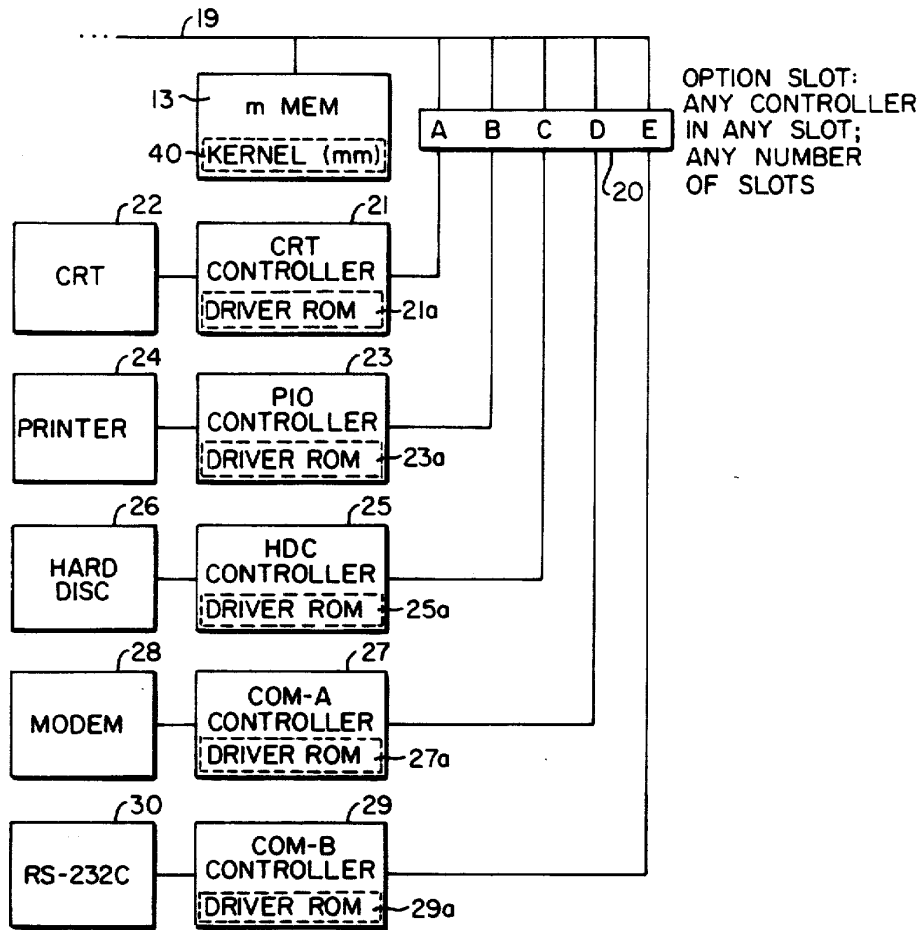


FIG. 2.

OPTION SLOT:
ANY CONTROLLER
IN ANY SLOT;
ANY NUMBER
OF SLOTS

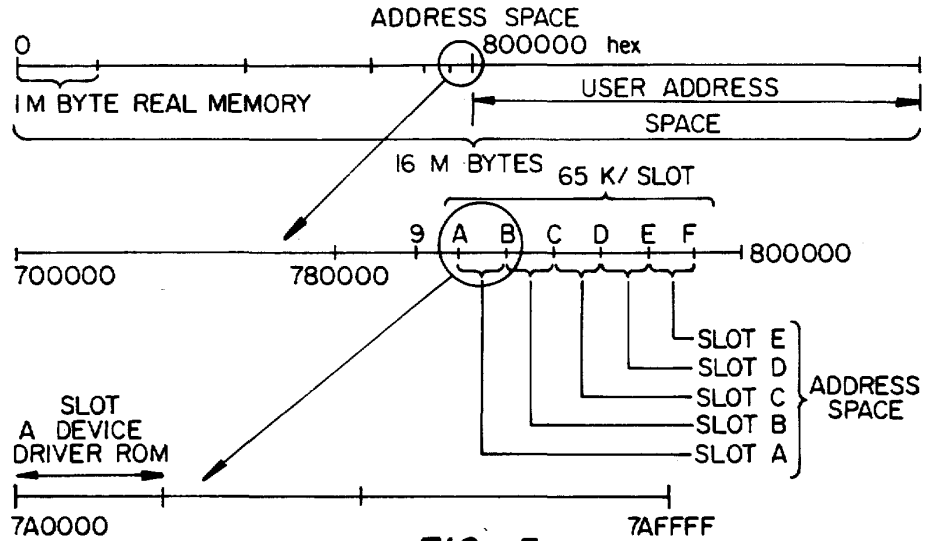


FIG. 3.

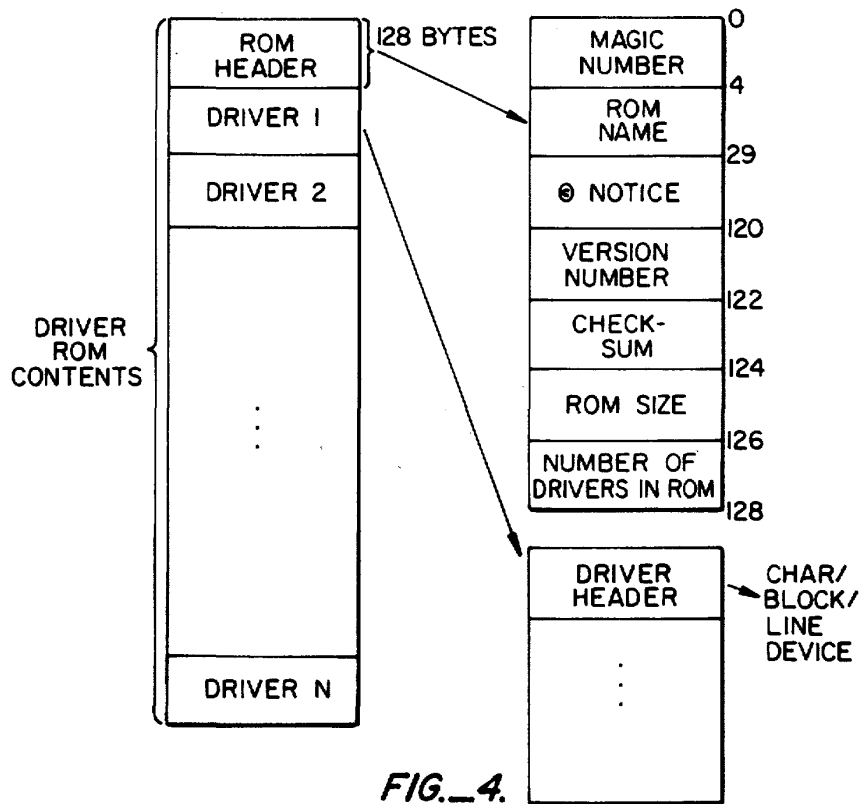


FIG. 4.

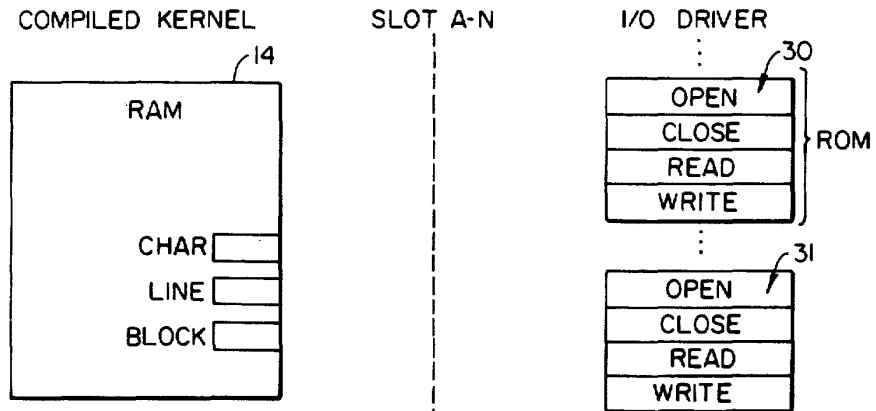


FIG. 5A.

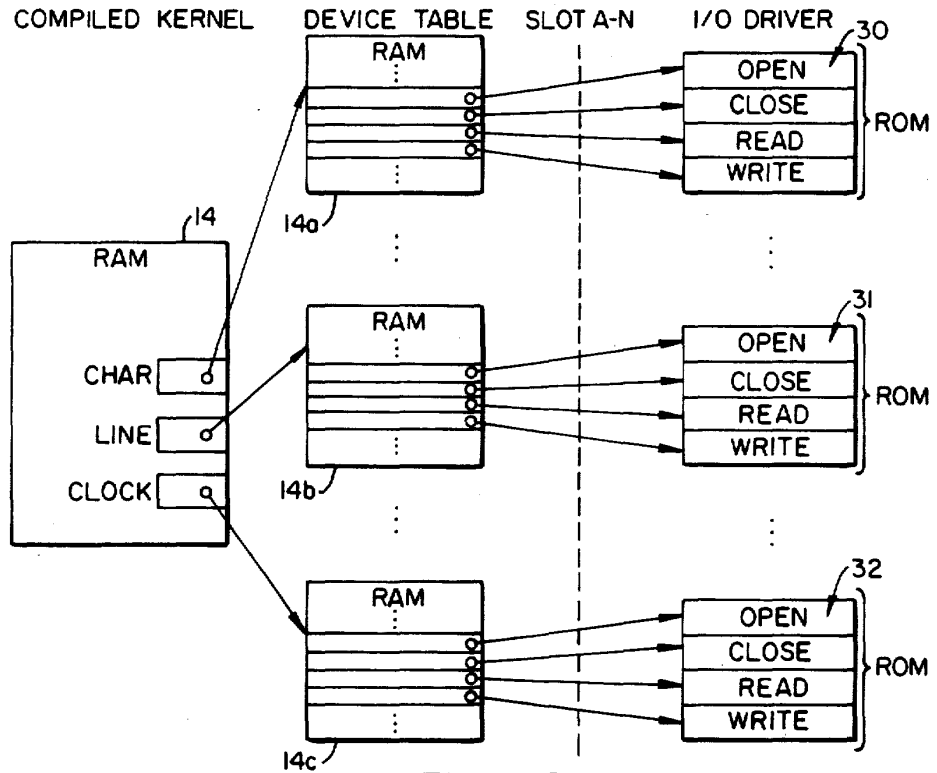


FIG. 5B.

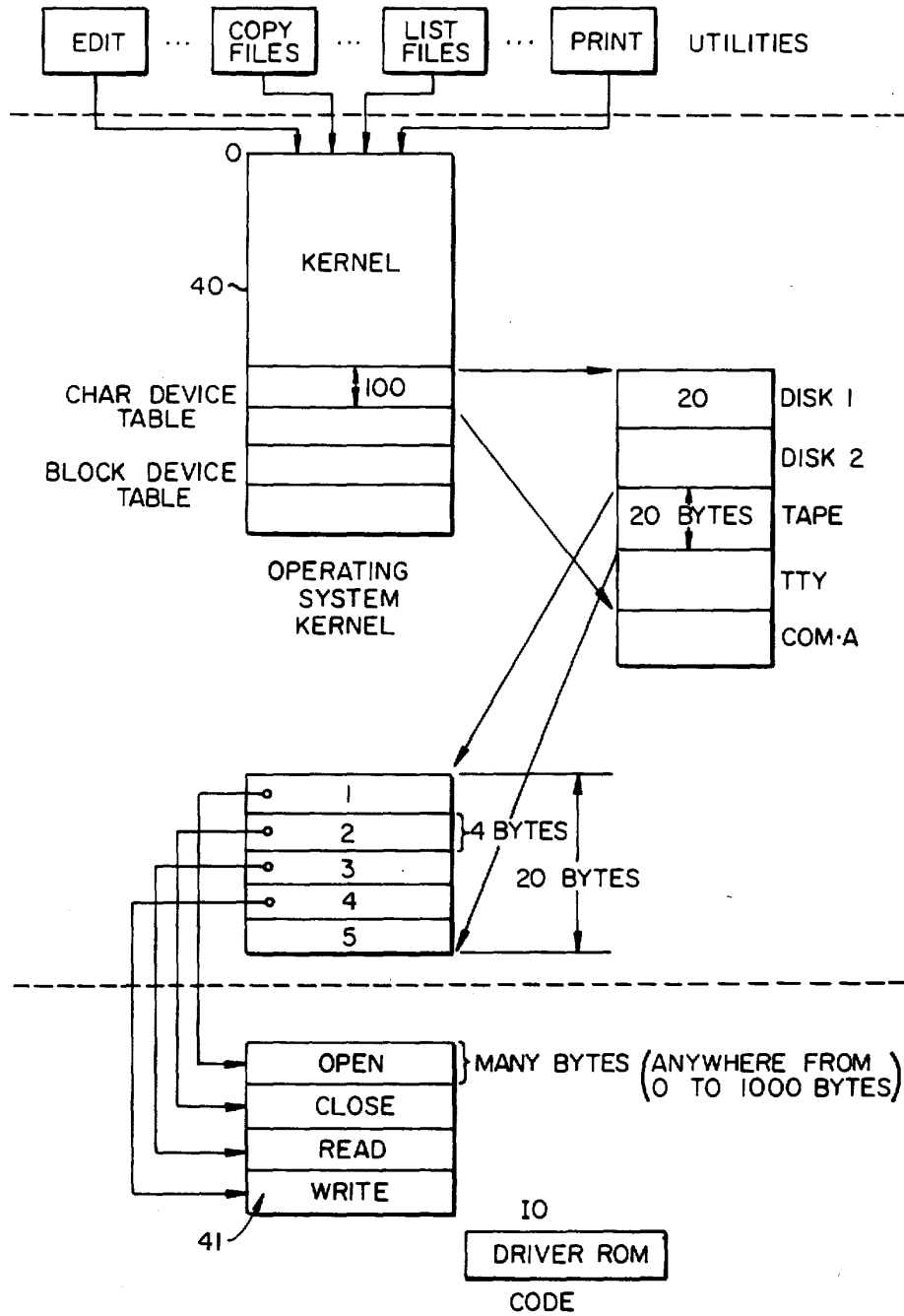


FIG. 6.

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