## United States Patent [19]

Shah et al.

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### [54] DATA PROCESSING SYSTEM HAVING AUTOMATIC CONFIGURATION

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both of Palo Alto, Calif.

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Carlos, Calif.

[21] Appl. No.: 520,354

[22] Filed: Aug. 4, 1983

[58] Field of Search ... 364/200 MS File, 900 MS File, 364/300

### [56] References Cited

#### U.S. PATENT DOCUMENTS

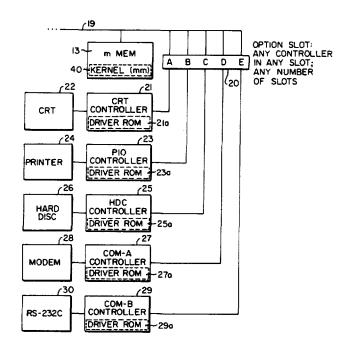
| 4,438,493 | 3/1984 | Cushing et al | 364/200 |
|-----------|--------|---------------|---------|
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Primary Examiner—Raulfe B. Zache Attorney, Agent, or Firm—Townsend & Townsend

## [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.

### 13 Claims, 8 Drawing Figures





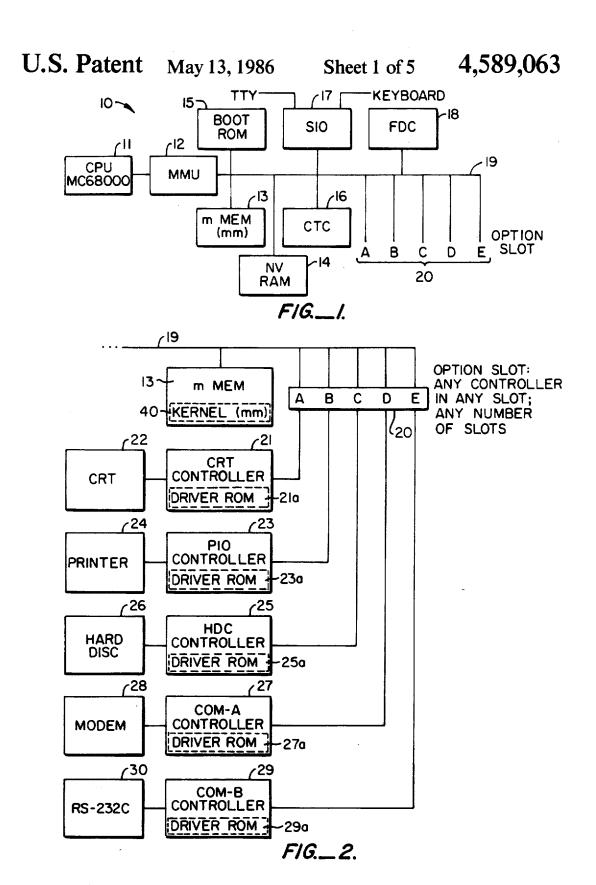


FIG.\_4.

DRIVER N

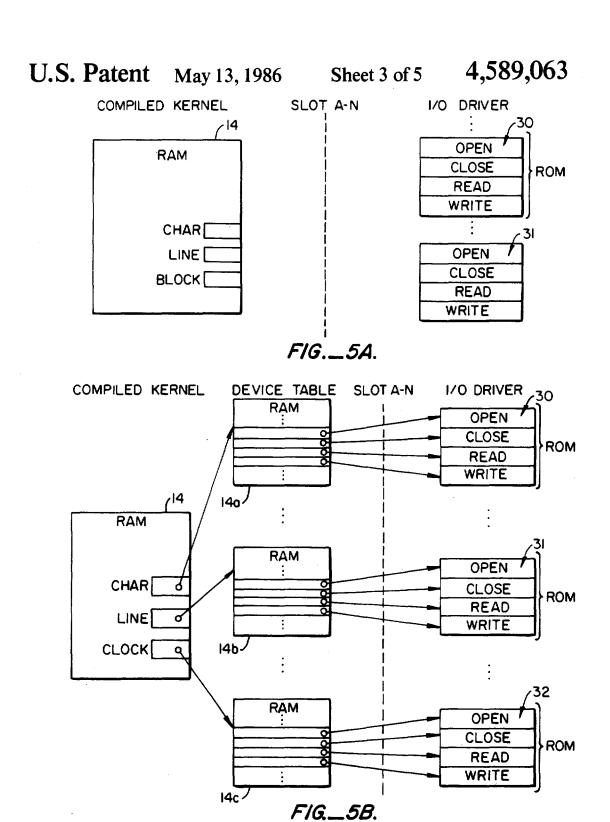


FIG.\_6.

CODE

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