

US005675831A

### United States Patent [19]

### Caputo

- [54] METHOD FOR AUTOMATIC INSTALLATION OF A MODEM WHEREIN UNIQUE IDENTIFICATION FOR THE DEVICE REGISTRY IS COMPUTED FROM MODEM RESPONSES TO QUERIES BY THE SYSTEM
- [75] Inventor: Christopher P. Caputo, Redmond, Wash.
- [73] Assignee: Microsoft Corporation, Redmond, Wash.
- [21] Appl. No.: 486,959
- [22] Filed: Jun. 7, 1995

### **Related U.S. Application Data**

- [63] Continuation of Ser. No. 356,059, Dec. 13, 1994.
- [51] Int. Cl.<sup>6</sup> ...... G06F 9/00; G06F 13/10
- [52] U.S. Cl. ...... 395/830; 395/421.06; 395/281;
- 395/828; 395/829; 395/866; 395/882; 395/884; 395/898; 364/284.2; 364/280.9; 364/947.5; 364/951.1

### [56] References Cited

### U.S. PATENT DOCUMENTS

3,754,217 8/1973 Bell et al. ..... 395/284

[11] Patent Number: 5,675,831

### [45] Date of Patent: Oct. 7, 1997

5,038,320	8/1991	Heath et al 395/83	30
5,202,899	4/1993	Walsh 375/22	22
5,202,963	4/1993	Zelley 395/88	83
5,450,530	9/1995	Snyder et al	20
5,517,646	5/1996	Piccirillo et al 395/65	51
5,530,887	6/1996	Harper et al 395/80	00
5,530,895	6/1996	Enstrom 395/82	29
5,548,759	8/1996	Lipe 395/6	11
5,594,873	1/1997	Garrett 395/28	81

### OTHER PUBLICATIONS

IBM Technical Disclosure Bulletin, vol. 29, No.7, p. 2988 Dec. 1986.

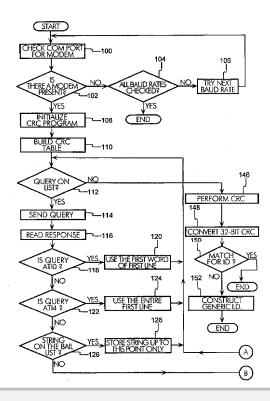
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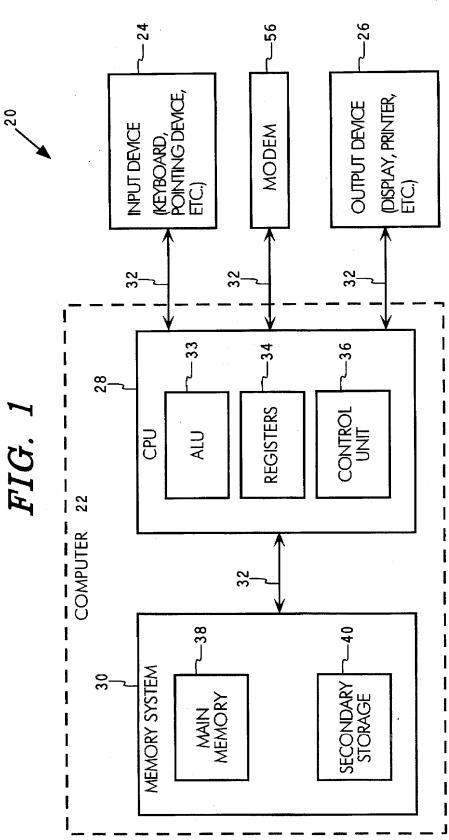
#### [57] ABSTRACT

A device independent modem interface employs a call control and data transfer application programming interface for application programs to access a modem in a device independent fashion. A universal modem driver reads device specific information from a registry to issue specific control commands to a modem. The universal modem driver separates command mode and data mode of the modem transparently to the application. The modem interface also includes support for detecting a modem and for loading device specific information into the registry based on the modem identification.

### 20 Claims, 5 Drawing Sheets



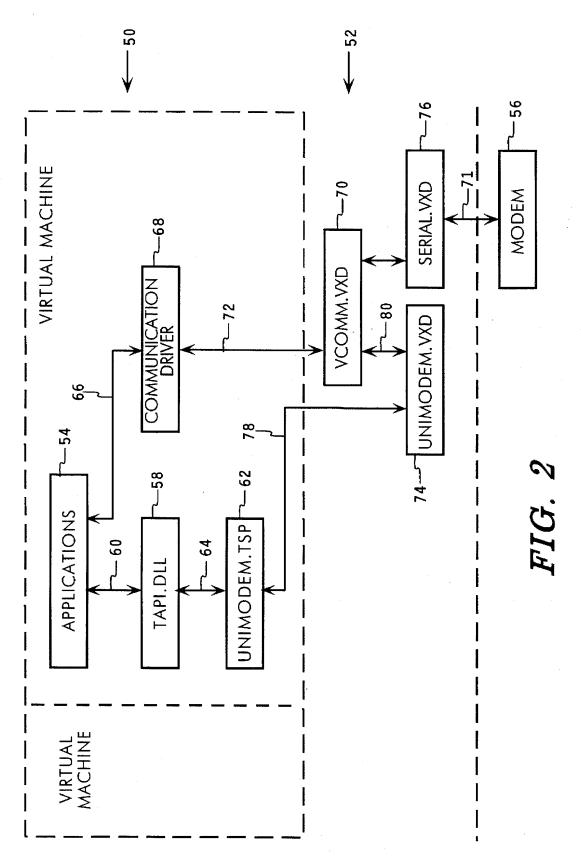
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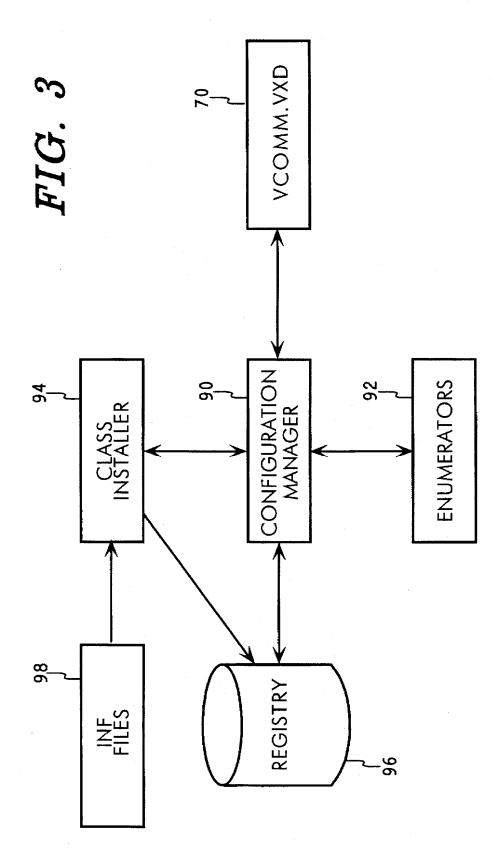
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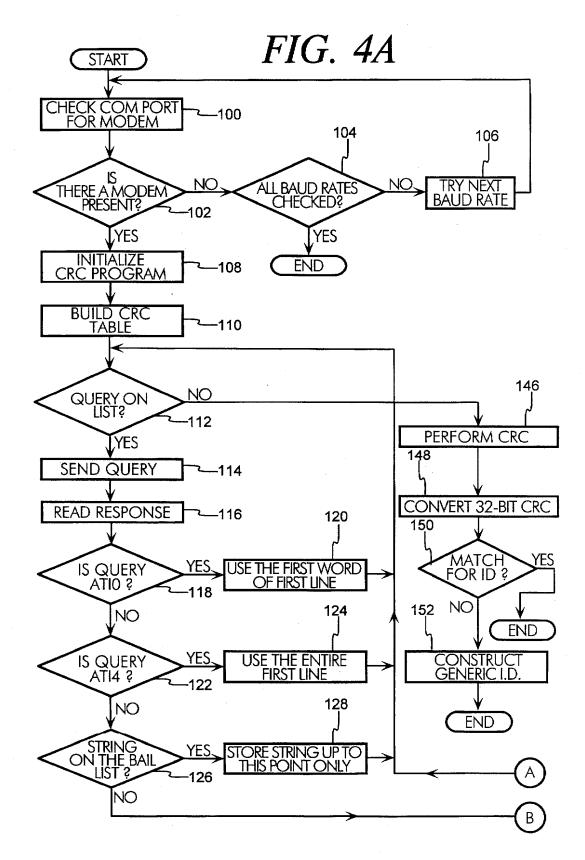


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