



US005787246A

# United States Patent [19]

[11] Patent Number: **5,787,246**

Lichtman et al.

[45] Date of Patent: **Jul. 28, 1998**

## [54] SYSTEM FOR CONFIGURING DEVICES FOR A COMPUTER SYSTEM

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[21] Appl. No.: **250,698**

[22] Filed: **May 27, 1994**

[51] Int. Cl.<sup>6</sup> ..... **G06F 15/02**; G06F 12/02; G06F 9/445; G06F 15/40

[52] U.S. Cl. .... **395/200.5**; 395/828; 395/830; 395/200.56

[58] Field of Search ..... 395/600, 828, 395/830, 882, 500, 700, 200.56, 200.5

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Primary Examiner—Thomas C. Lee

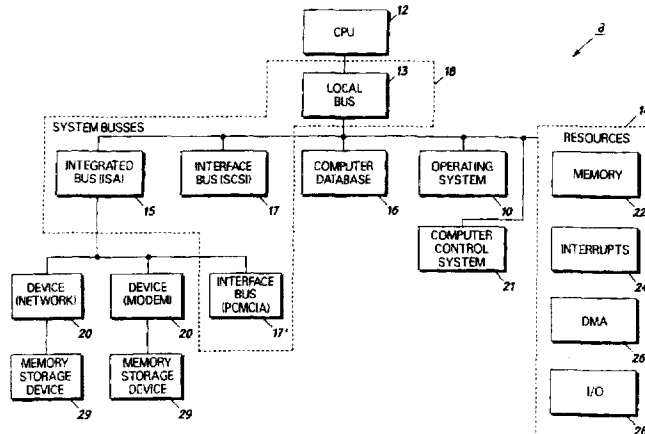
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Attorney, Agent, or Firm—Jones & Askew, LLP

### [57] ABSTRACT

A system for configuring devices of a computer system without user intervention. Device information for each of the devices is collected to uniquely identify the devices and to describe the device characteristics associated with the operation of devices with the computer. Computer resources, which support the functions of the devices within the computer, are allocated based upon the device information. This allocation process prevents a potential conflicting use of the resources by the devices. A device driver, which enables communications between the corresponding device and the computer system, is also identified for each of the devices in response to the device information. In response to the allocation of resources, the identified device drivers are loaded and the devices are activated for operation with the computer.

98 Claims, 11 Drawing Sheets



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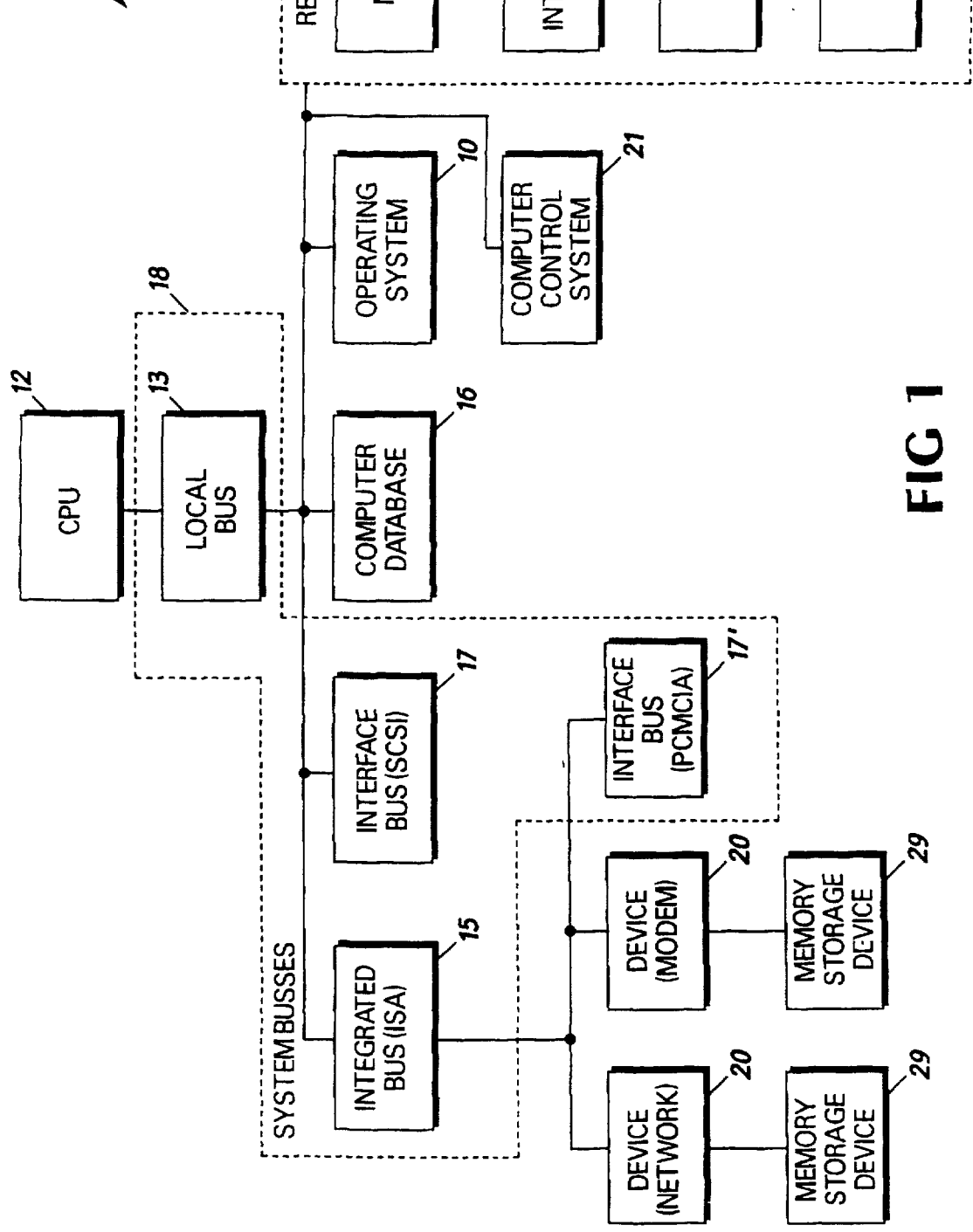


FIG 1

CONFIGURATION LOGIC

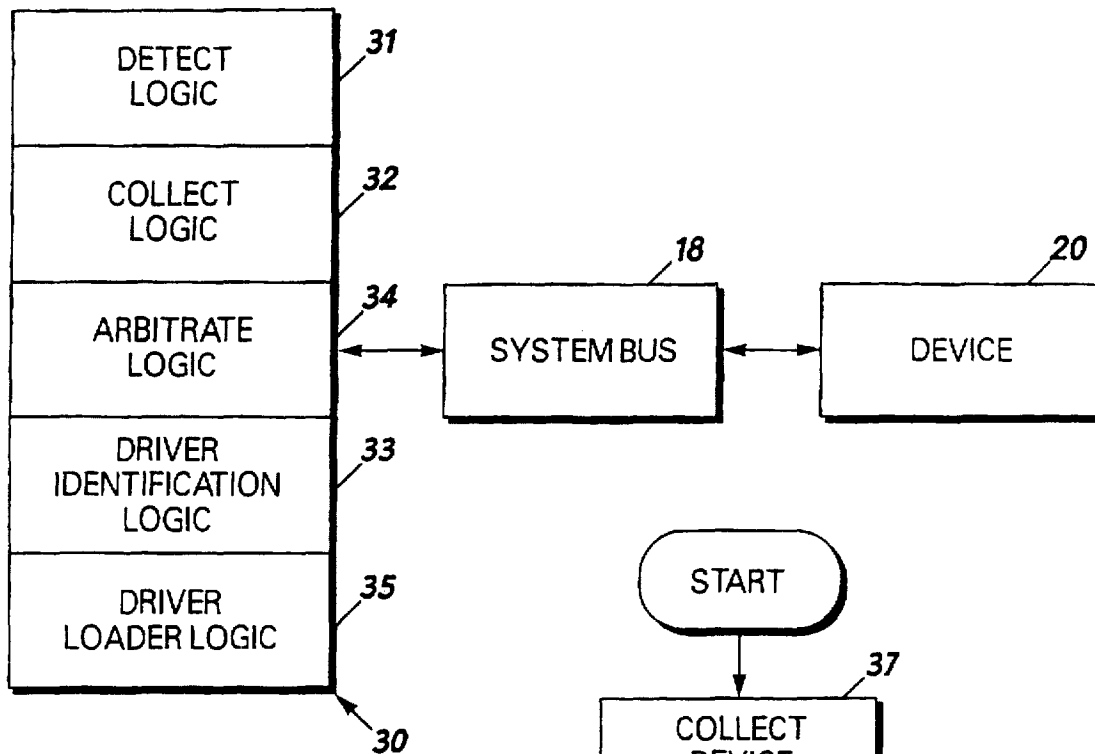


FIG 2

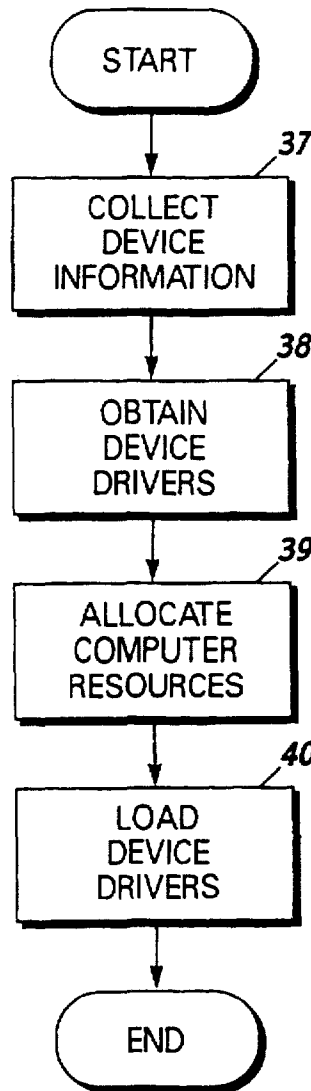


FIG 3

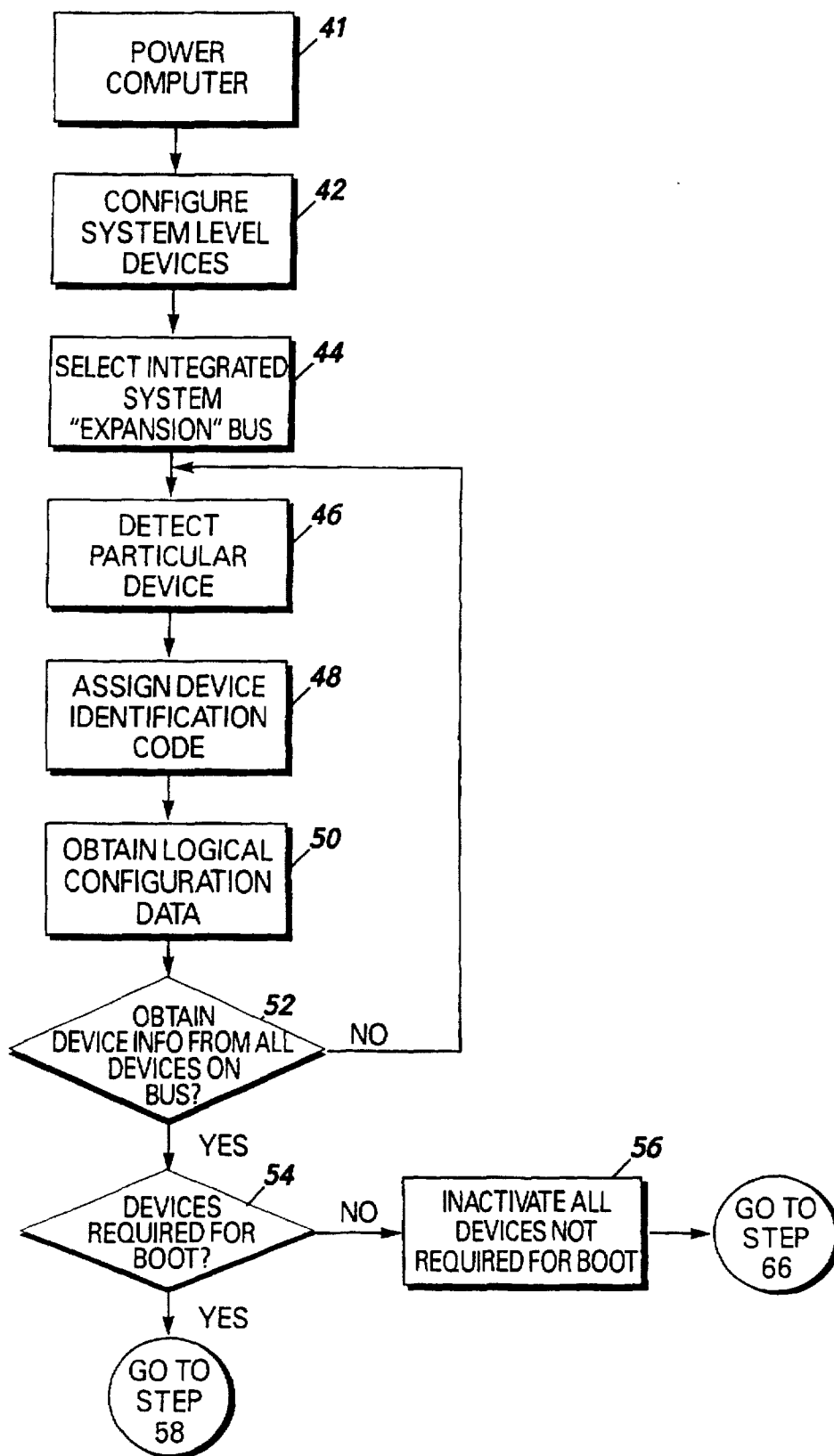


FIG 4A

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