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**United States Patent** [19]  
**Charles et al.**

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- [54] **ROOM TEMPERATURE SENSOR AND THERMOSTAT CONTROL DEVICE**
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- [21] Appl. No.: **09/119,924**
- [22] Filed: **Jul. 21, 1998**

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**Related U.S. Application Data**

- [62] Division of application No. 08/684,551, Jul. 19, 1996, Pat. No. 5,816,492.
- [51] **Int. Cl.<sup>6</sup>** ..... **F24F 3/00**; G05D 23/00
- [52] **U.S. Cl.** ..... **236/46 R**; 236/51; 165/209
- [58] **Field of Search** ..... 236/46 R, 51, 236/47; 165/209

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*Primary Examiner*—William Wayner  
*Attorney, Agent, or Firm*—Greer, Burns & Crain, LLP

[57] **ABSTRACT**

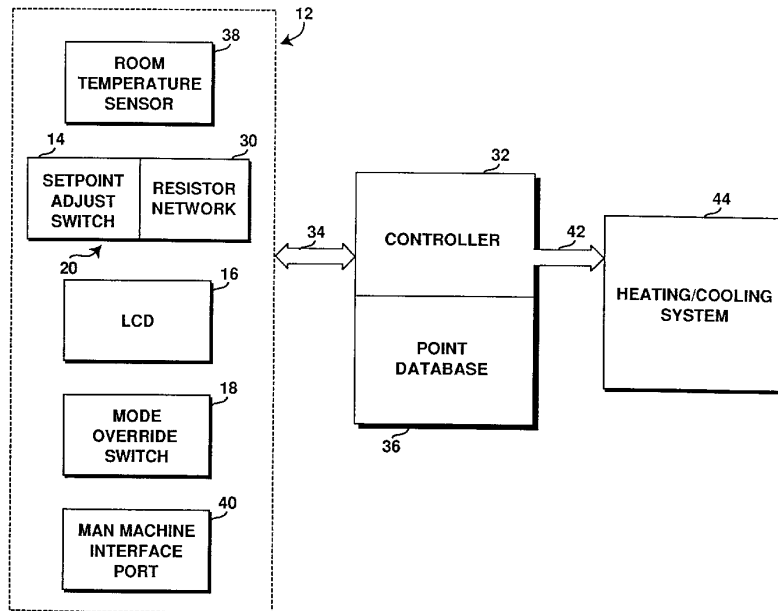
A thermostat control having improved user controls wherein an analog version contains a binary coded switch for selectively setting a setpoint temperature. The binary coded switch is configured to have discrete positions corresponding to a plurality of setpoint temperature settings. It contains, among other things, a resistor network configured to produce a setpoint signal indicative of the binary coded switch position and a setpoint adjust switch for setting the binary coded switch position. Also, digital version having a man-machine interface port, wherein point information from a controller can be viewed and modified with the thermostat control device controls when a hardware passkey is inserted into the man-machine interface port.

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**4 Claims, 10 Drawing Sheets**



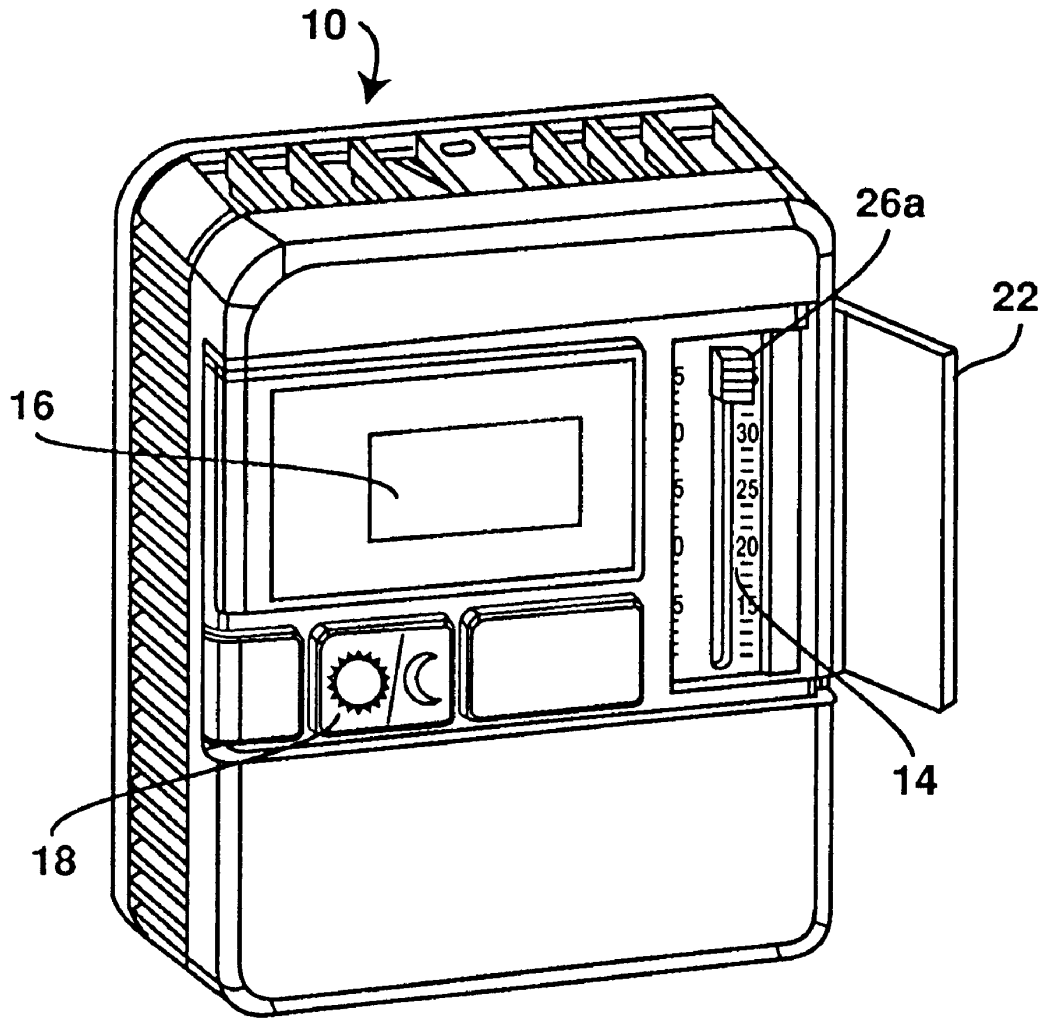


FIGURE 1

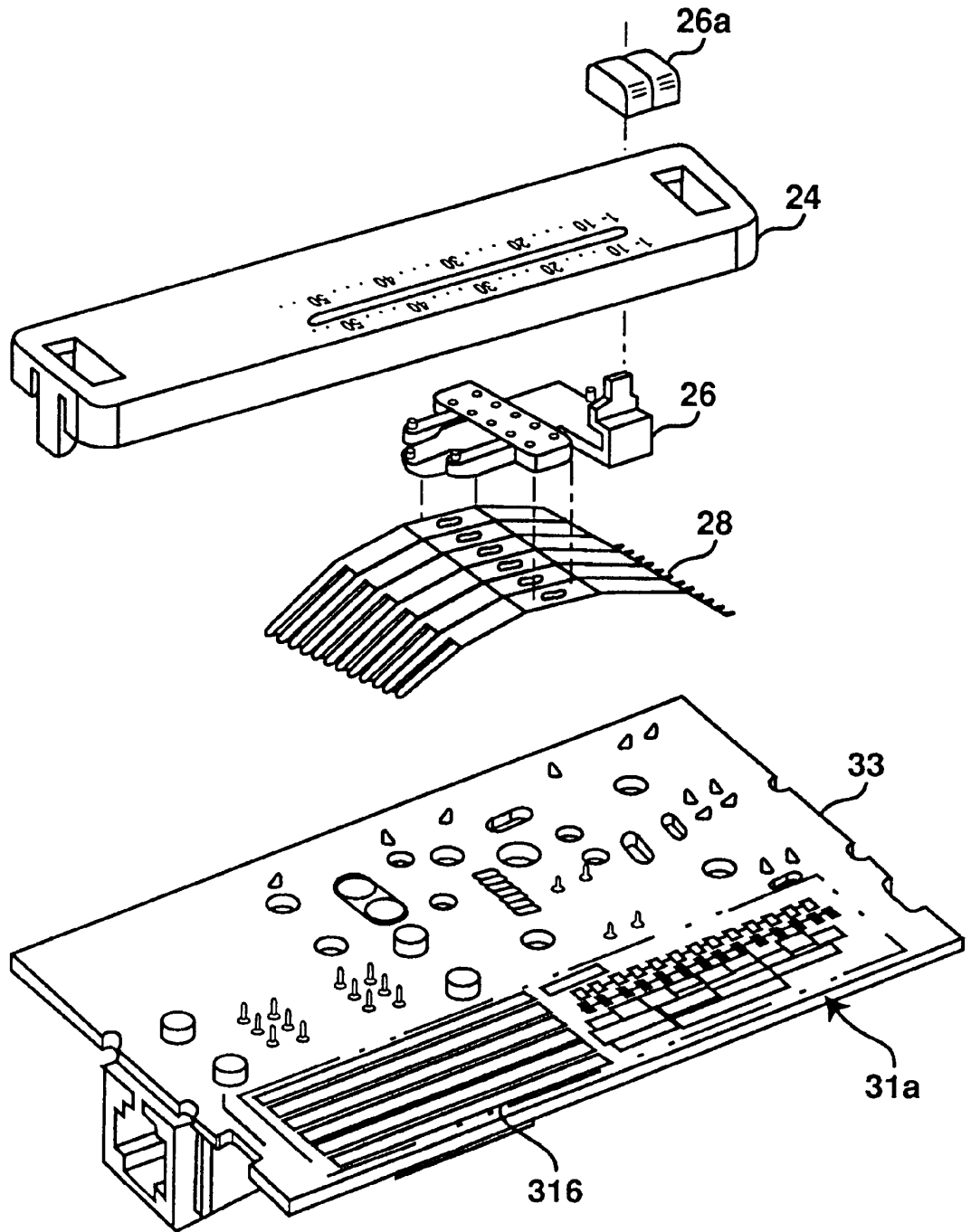


FIGURE 2

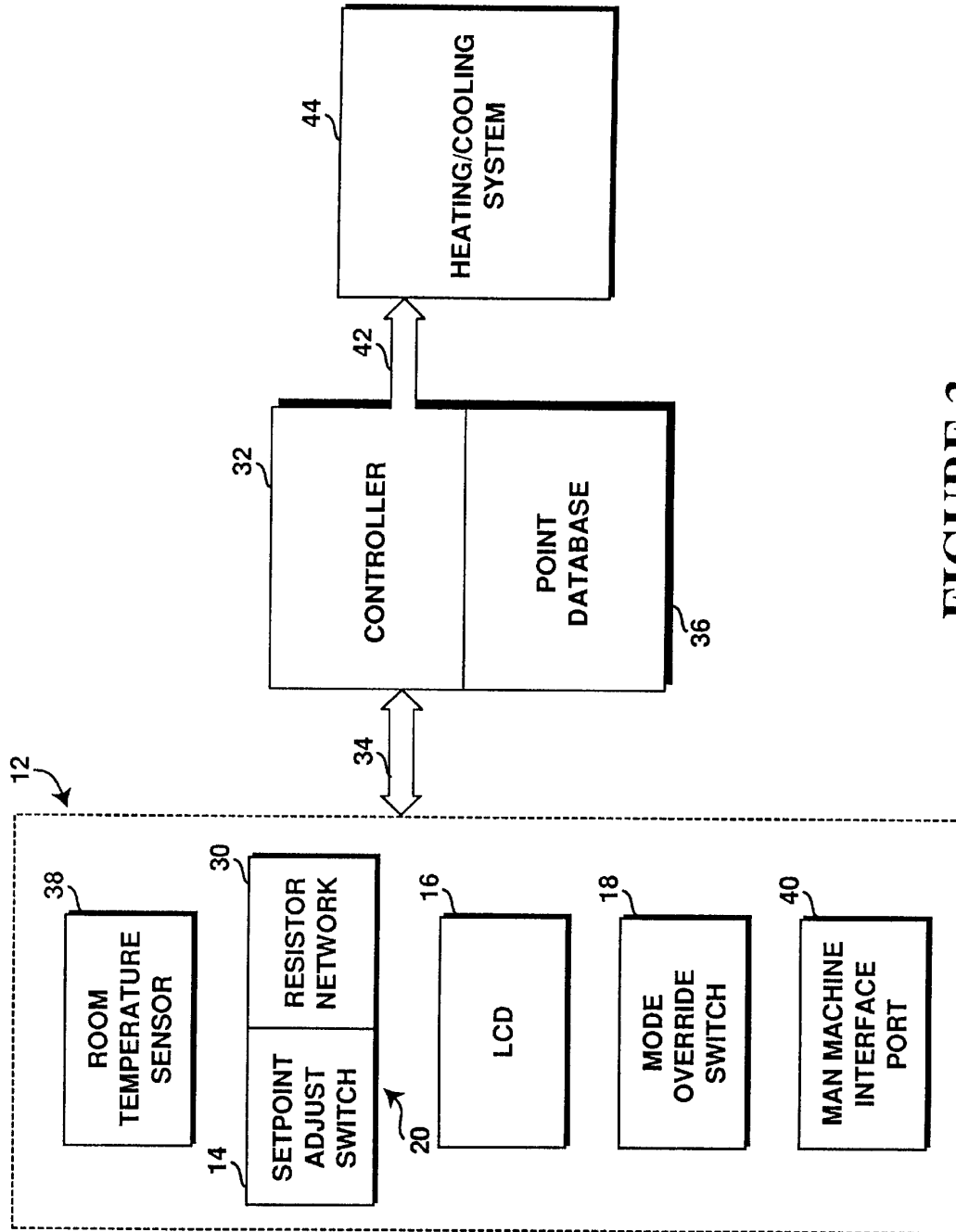


FIGURE 3

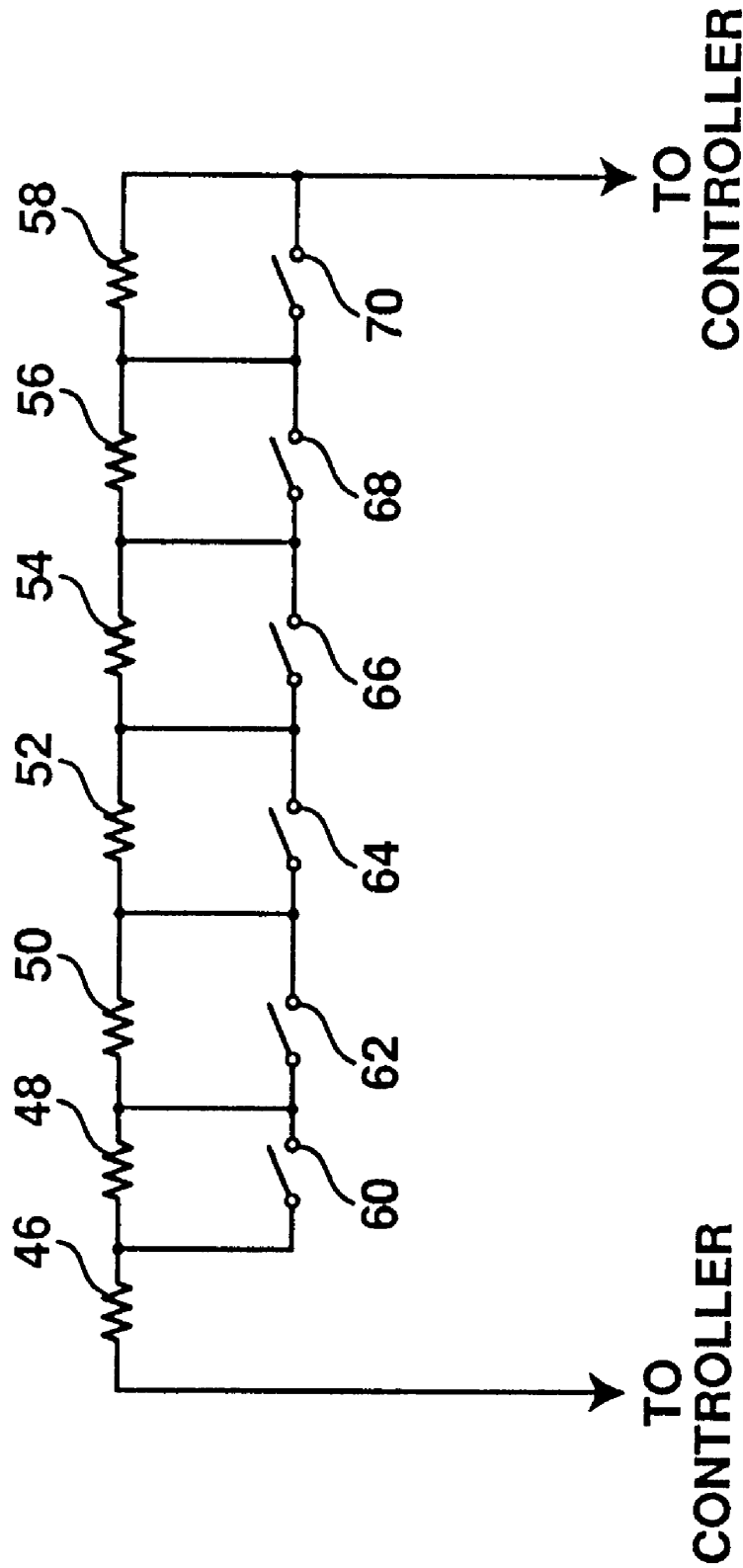


FIGURE 4

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