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# United States Patent [19]

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Lee

[45] Date of Patent: **Jul. 22, 1997**

[54] **ELECTRICAL SOCKET WITH MONITORING UNIT FOR MONITORING OPERATING CONDITIONS**

5,003,486	3/1991	Herdel et al.	340/656
5,160,926	11/1992	Schweitzer, III	340/538
5,332,993	7/1994	Ninomiya	340/636
5,448,491	9/1995	Janke et al.	340/635

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[21] Appl. No.: **427,766**

[22] Filed: **Apr. 25, 1995**

[51] Int. Cl.<sup>6</sup> ..... **G08B 21/00**

[52] U.S. Cl. .... **340/656; 340/635; 340/310.08; 364/483; 360/42**

[58] **Field of Search** ..... 340/635, 656, 340/310.08, 538, 657, 660, 664; 364/483, 482, 550; 361/42

## [57] ABSTRACT

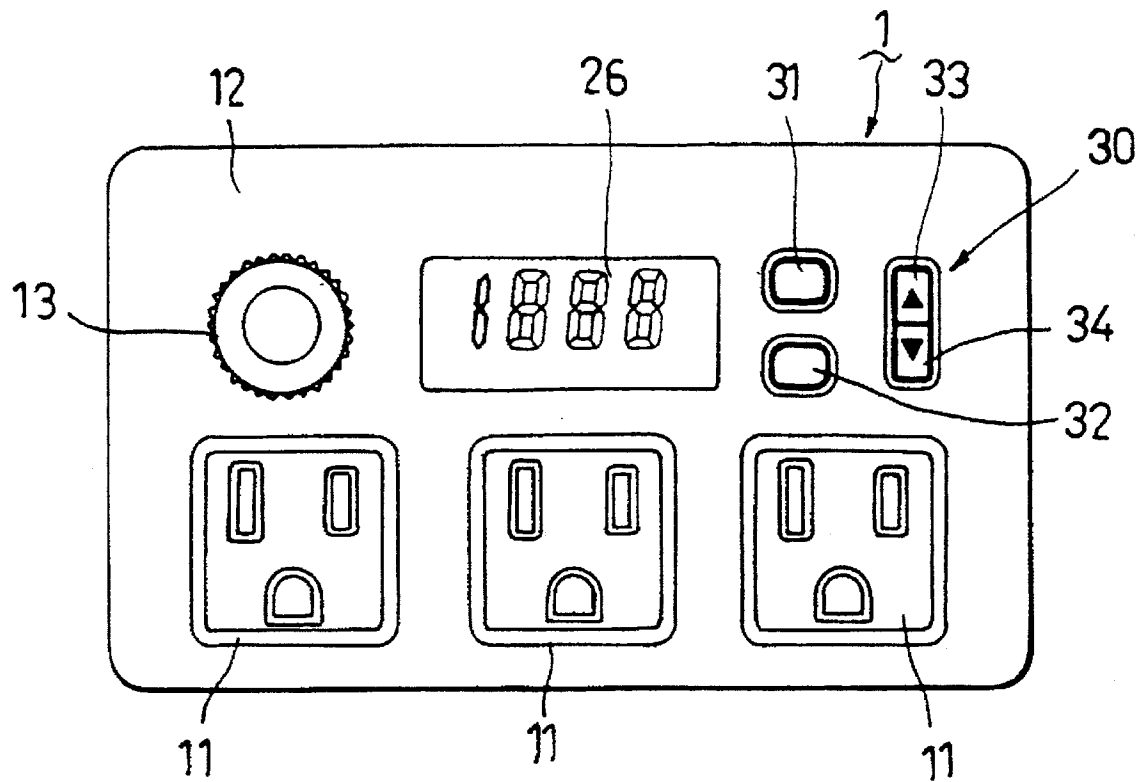
An electrical socket includes at least one socket receptacle adapted to connect electrically an electrical appliance to a line power source, and a monitoring unit connected electrically across the socket receptacle for monitoring operating conditions, such as the ambient temperature, the line voltage, the line current and the line power supplied by the line power source, of the electrical socket.

## [56] References Cited

### U.S. PATENT DOCUMENTS

4,644,320 2/1987 Corr et al. .... 340/310.08

**3 Claims, 5 Drawing Sheets**



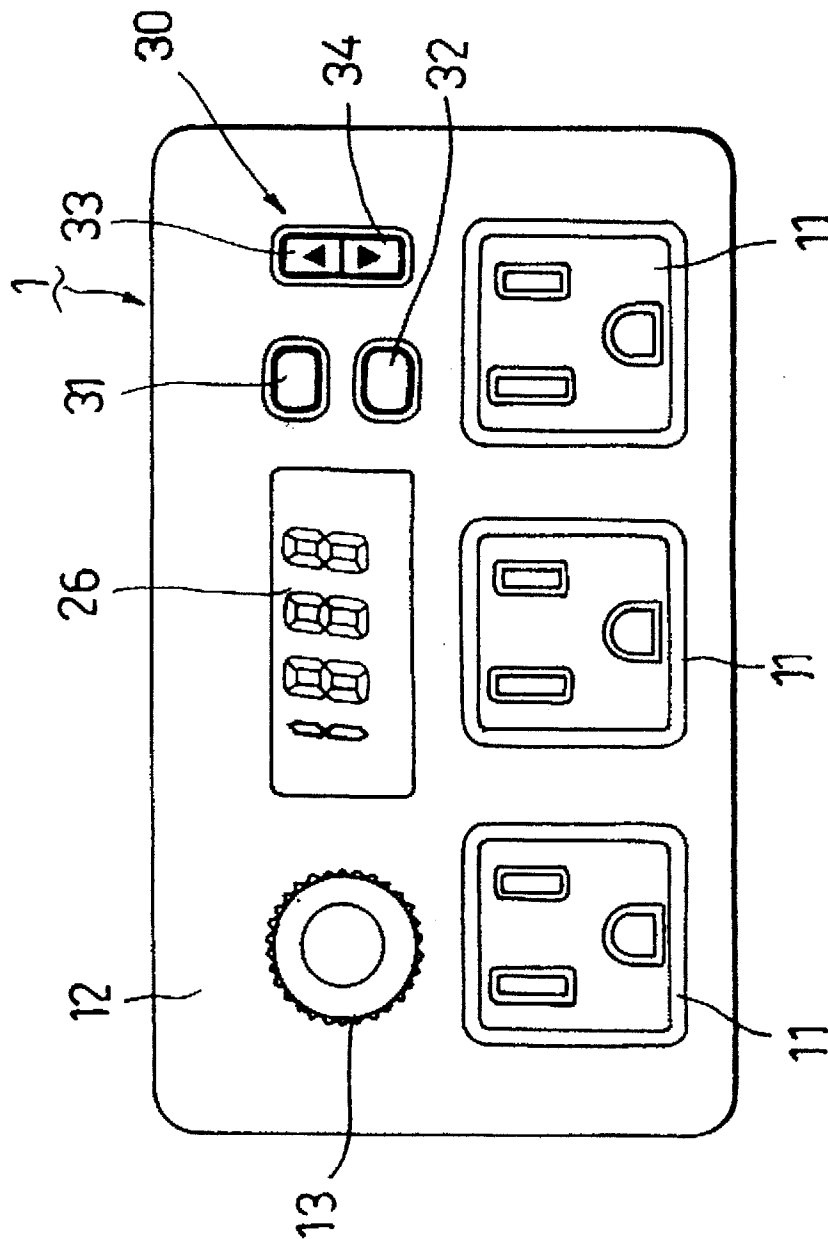


FIG. 1

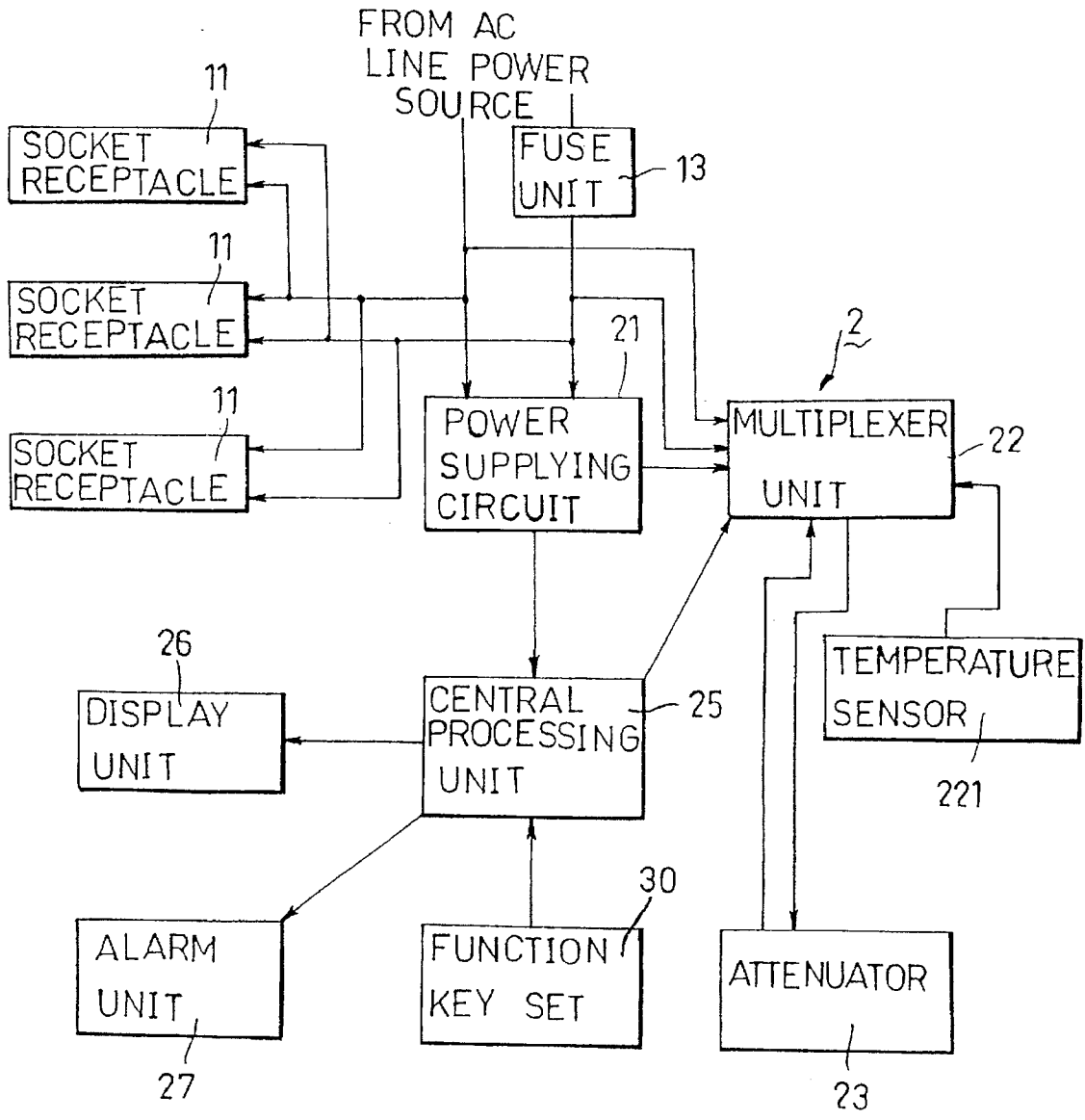


FIG. 2

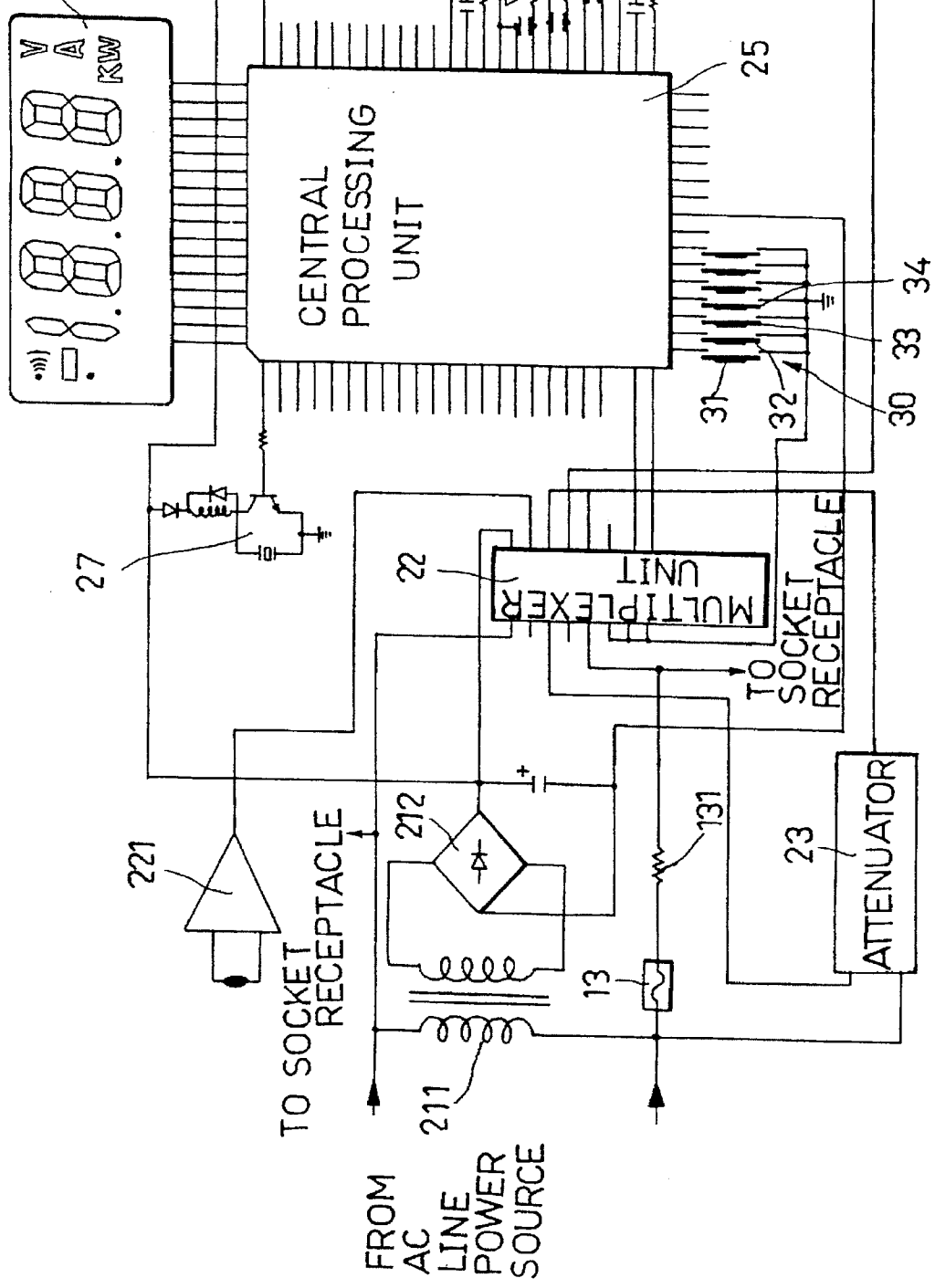


FIG. 3

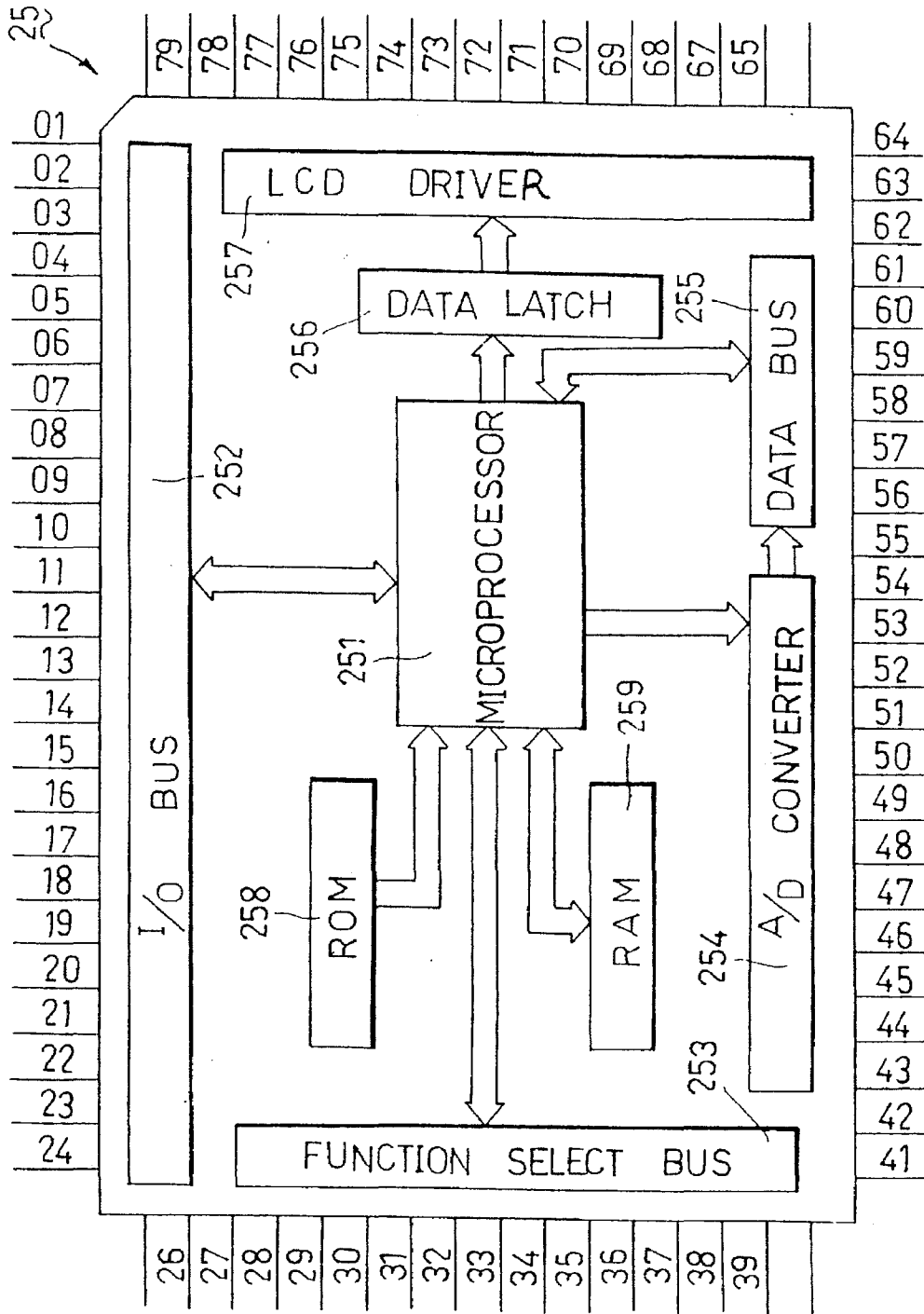


FIG. 4

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