United States Patent [19]

Schwarzbach et al.

[11] **4,418,333**

[45] **Nov. 29, 1983**

[54] **APPLIANCE CONTROL SYSTEM**

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[73] Assignee: **Pittway Corporation,** Aurora, Ill.

[21] Appl. No.: **271,244**

[22] Filed: **Jun. 8, 1981**

[51] Int. Cl.³ **H04Q 9/00; G06F 15/20; H04B 3/54**

[52] U.S. Cl. .... **340/310 A; 340/825.07; 340/825.22**

[58] Field of Search .... 340/310 A, 825.15, 825.22, 340/309.1, 309.4, 825.06, 825.07, 825.17, 501, 825.52; 307/141; 315/293; 364/104

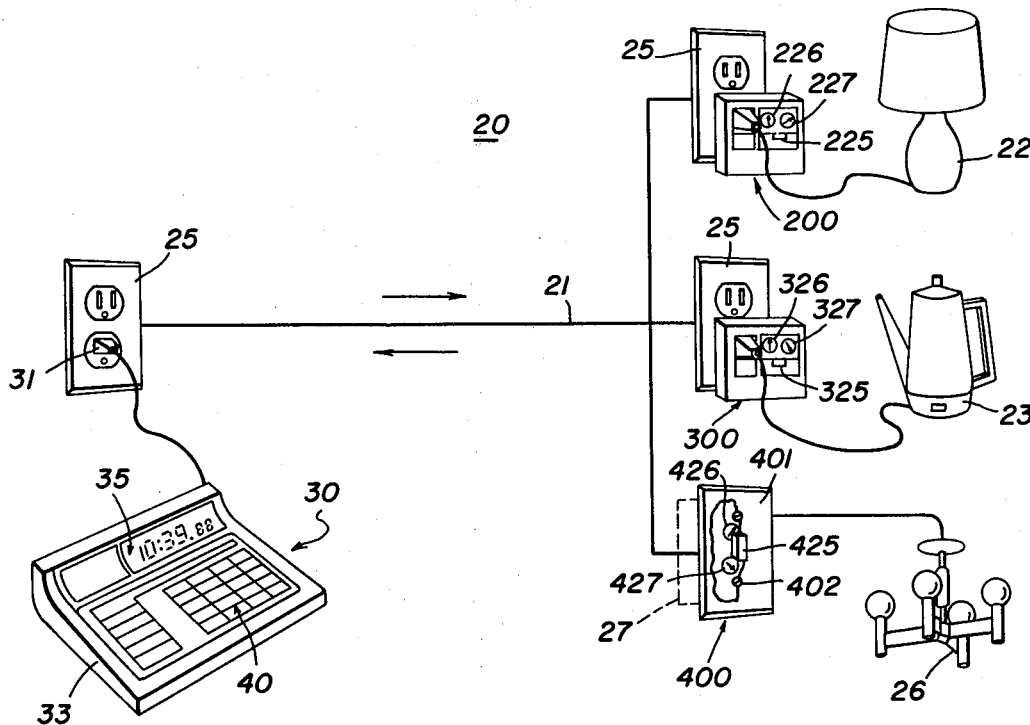[56] **References Cited**

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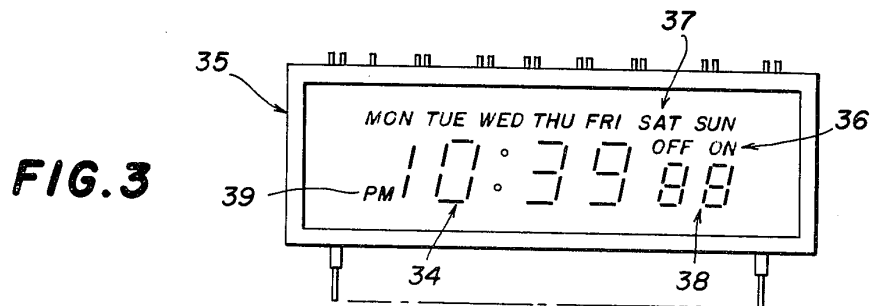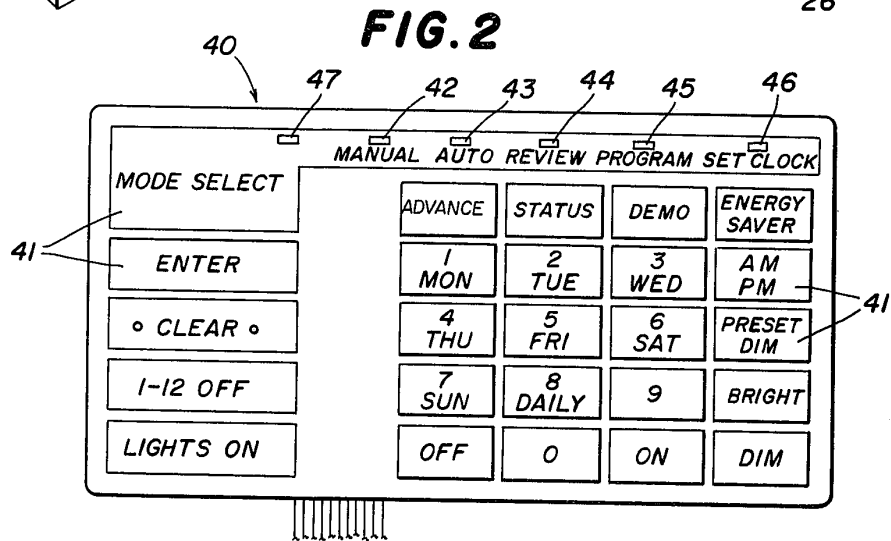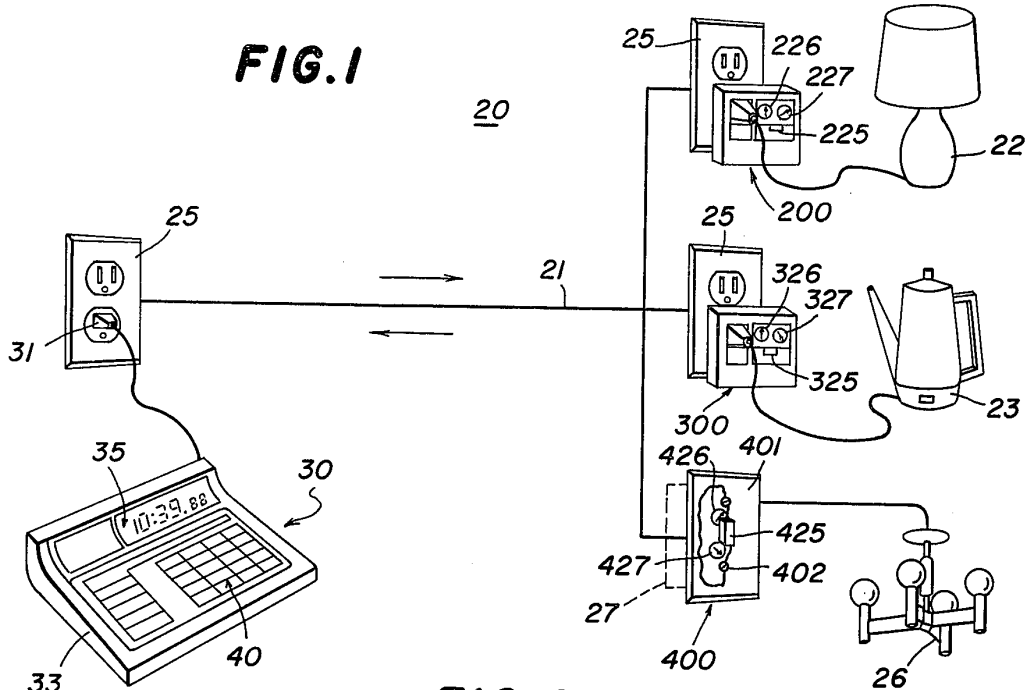|			
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[57] **ABSTRACT**

An appliance control system includes a central control unit and a plurality of slave units each including a user-programmable microprocessor and respectively plugged into outlet sockets of a power main in a building, appliances being respectively coupled to the slave units. The system permits manual or automatic transmission of command signals and status request signals from the central control unit to individually addressed slave units, and transmission of status signals from the slave units to the central control unit. Certain slave units include lamp dimmers which can be operated either remotely from the central control unit or locally at the slave unit, the microprocessors of these slave units being programmable to remember a predetermined brightness level, so that the lamp can be remotely turned on to that predetermined level. Means are provided for turning the appliance off at the remote appliance site while maintaining the appliance under the control of the central control unit. Means are also provided for reviewing and testing a pre-programmed schedule of command instructions.
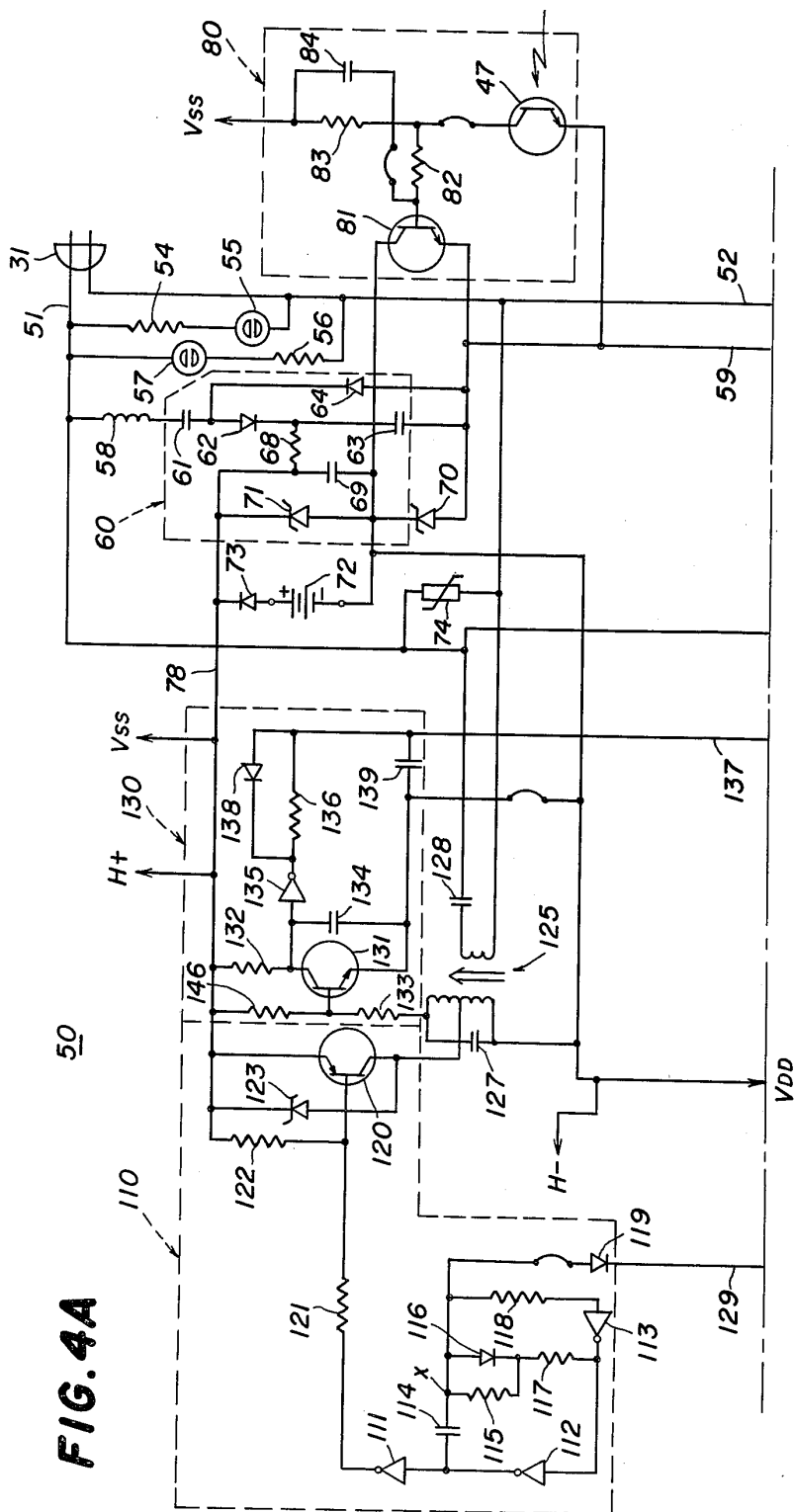
33 Claims, 20 Drawing Figures

FIG.1

20

25 226 227 225 200 22

25 326 327 325 300 23

426 401 425 427 402 27 400 26

25 31 21

35 30 40 33

FIG.2

40 47 42 43 44 45 46

MANUAL AUTO REVIEW PROGRAM SET CLOCK

MODE SELECT

41

	ADVANCE	STATUS	DEMO	ENERGY SAVER
ENTER	1 MON	2 TUE	3 WED	AM PM
○ CLEAR ○	4 THU	5 FRI	6 SAT	PRESET DIM
1-12 OFF	7 SUN	8 DAILY	9	BRIGHT
LIGHTS ON	OFF	0	ON	DIM

41

FIG.3

37

35 36

MON TUE WED THU FRI SAT SUN

OFF ON

PM 10:39 88

39 34 38

FIG.4A

FIG. 4B

FIG.5

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