

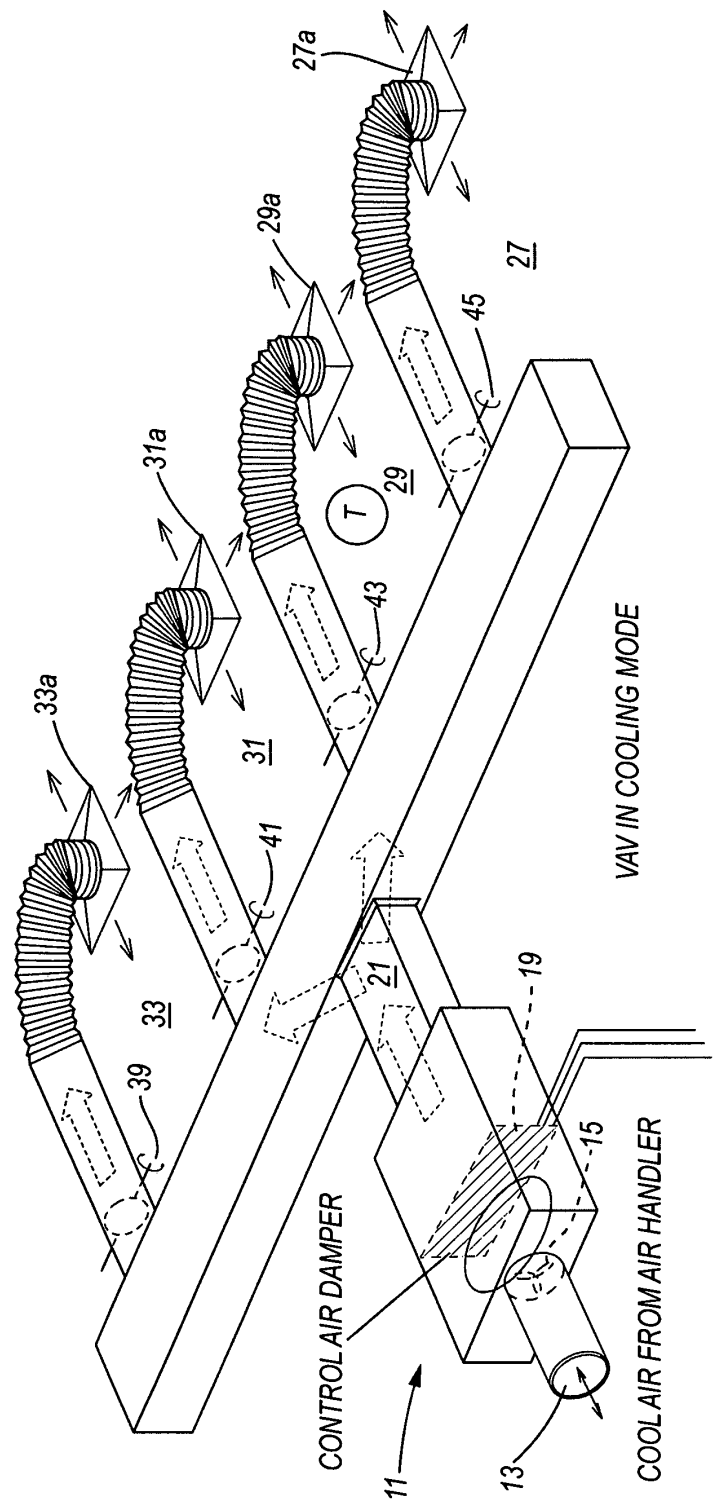


FIG. 1 PRIOR ART

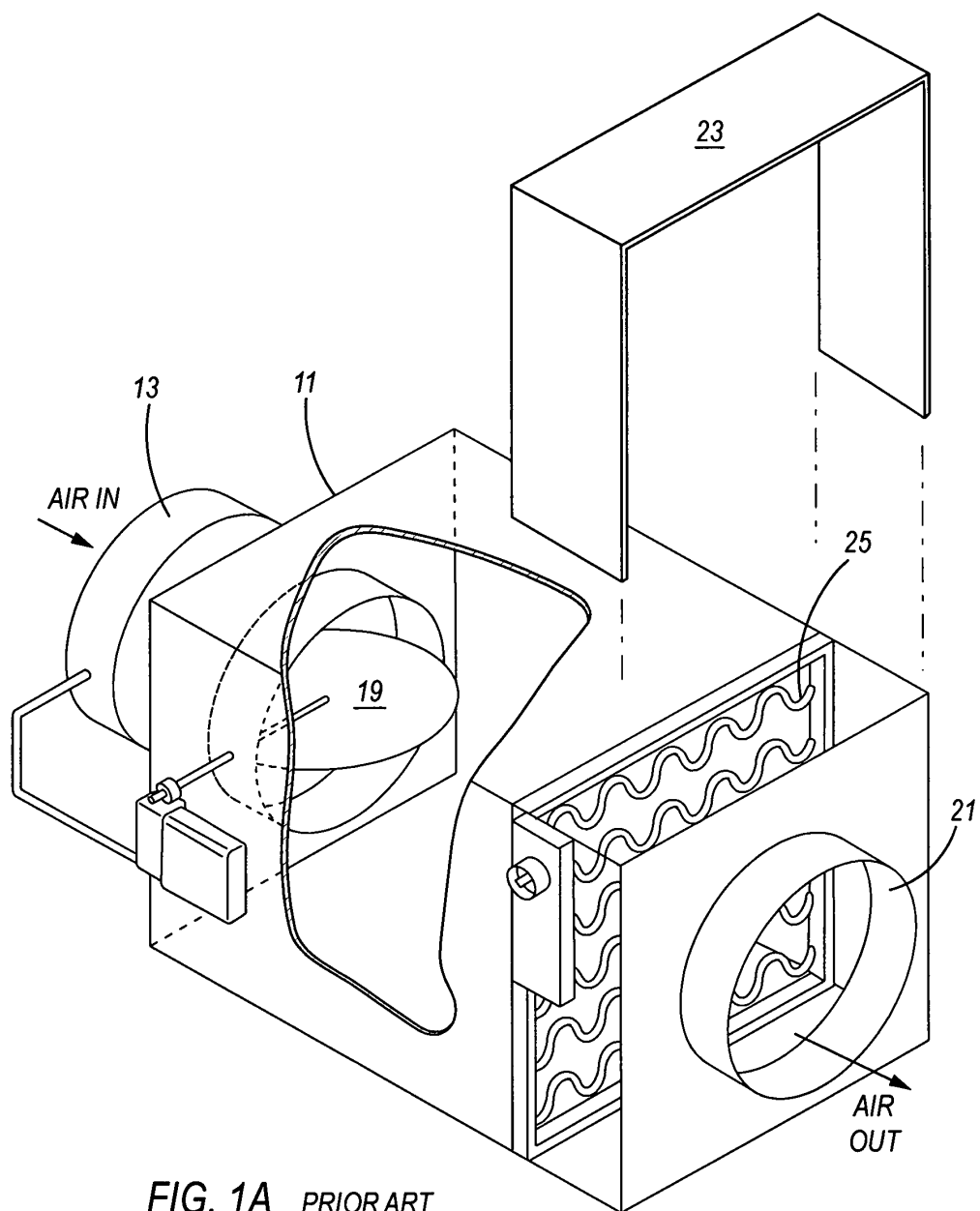


FIG. 1A PRIOR ART

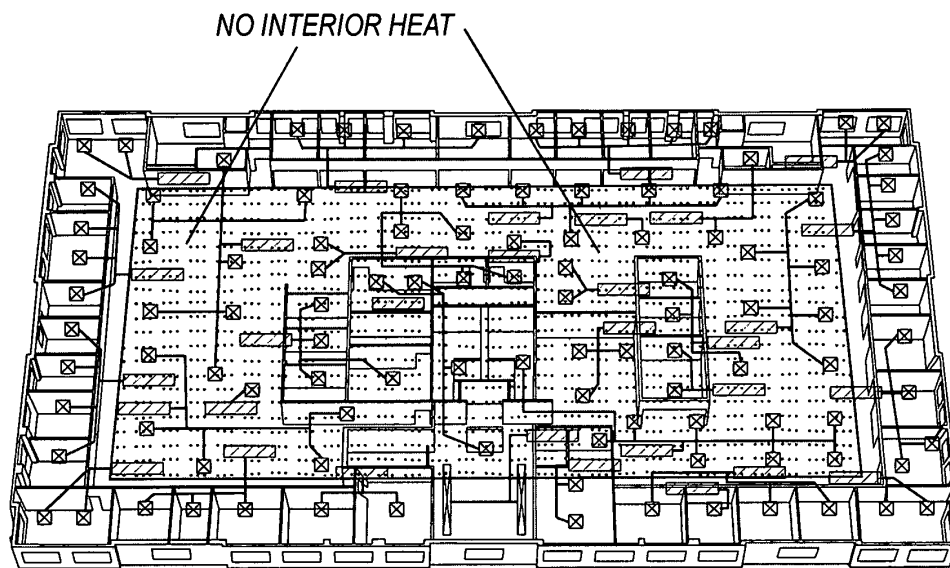


FIG. 2 PRIOR ART

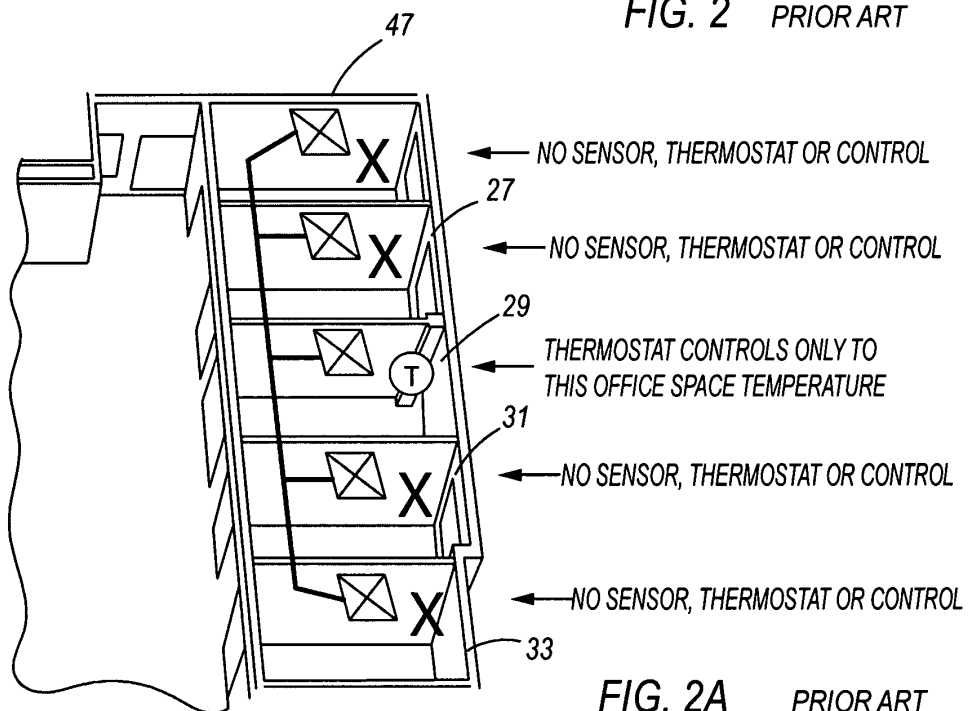


FIG. 2A PRIOR ART

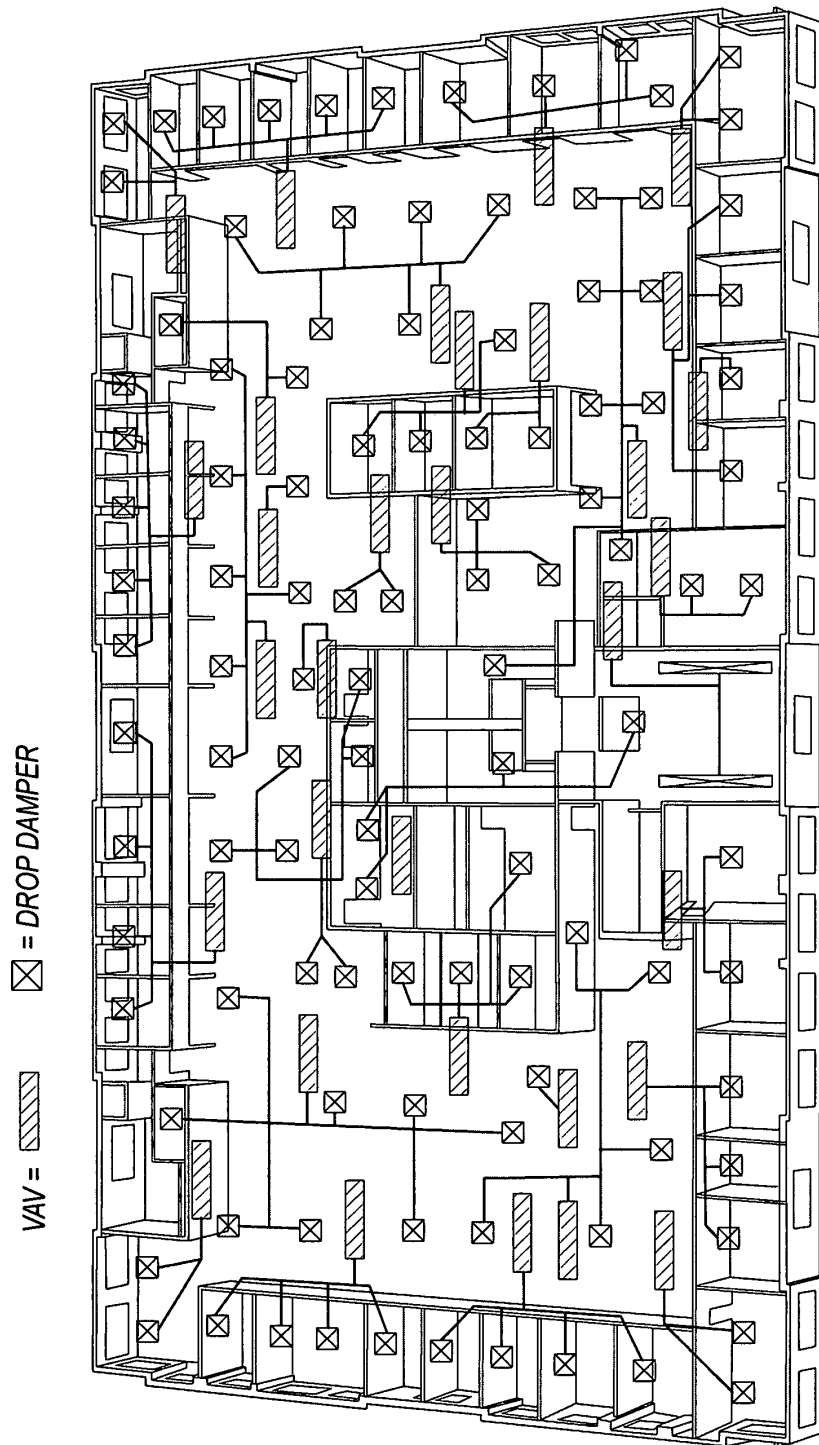


FIG. 3 PRIOR ART

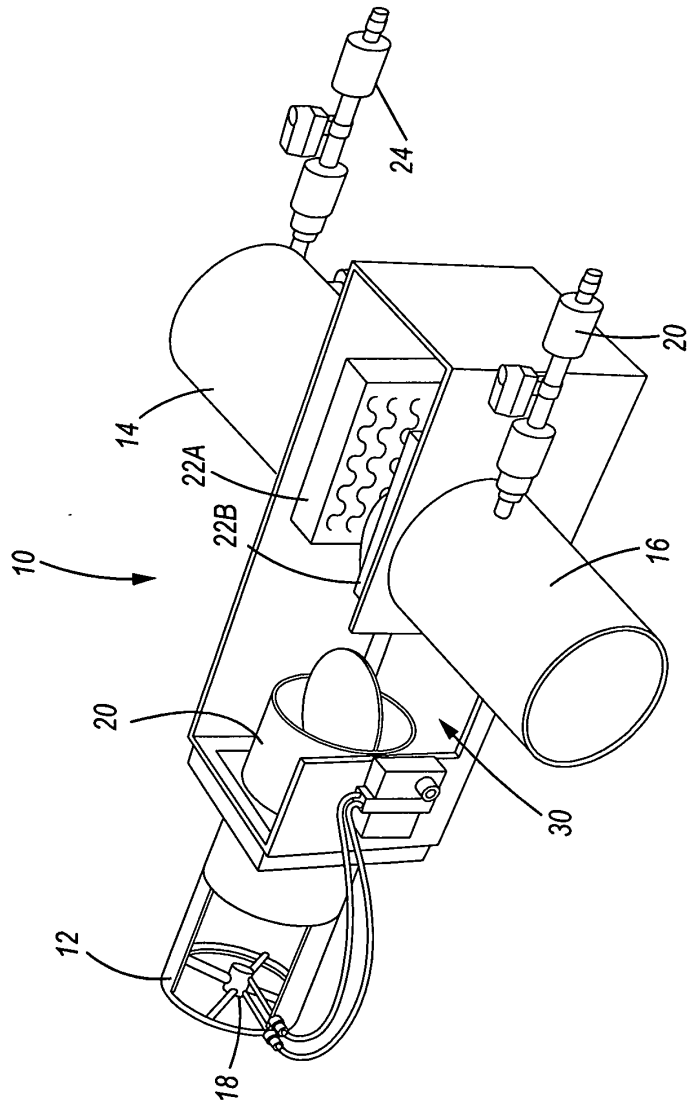


FIG. 4A

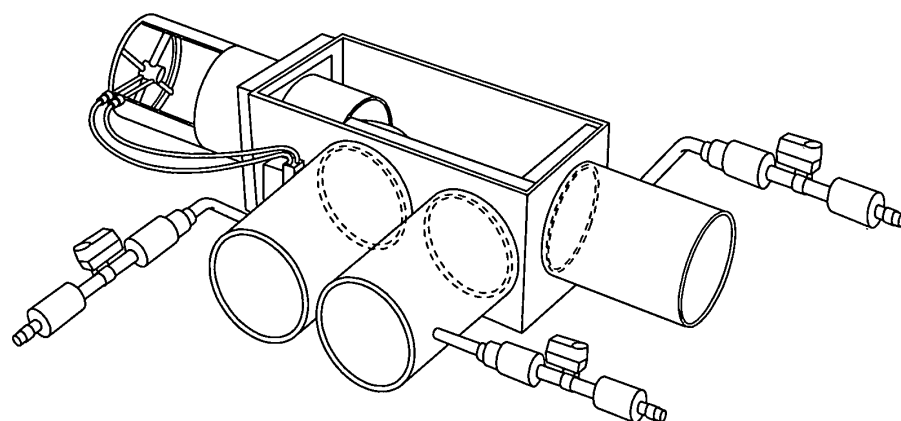


FIG. 4B

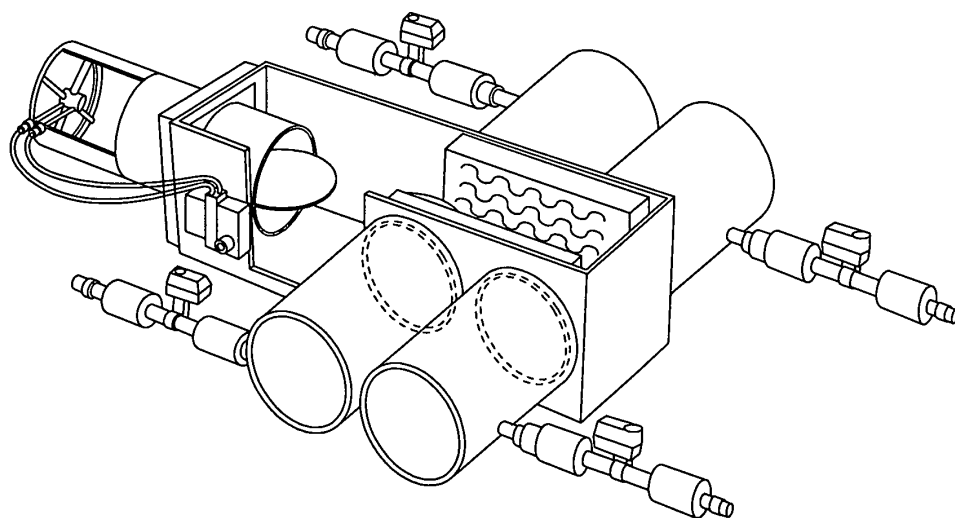


FIG. 4C

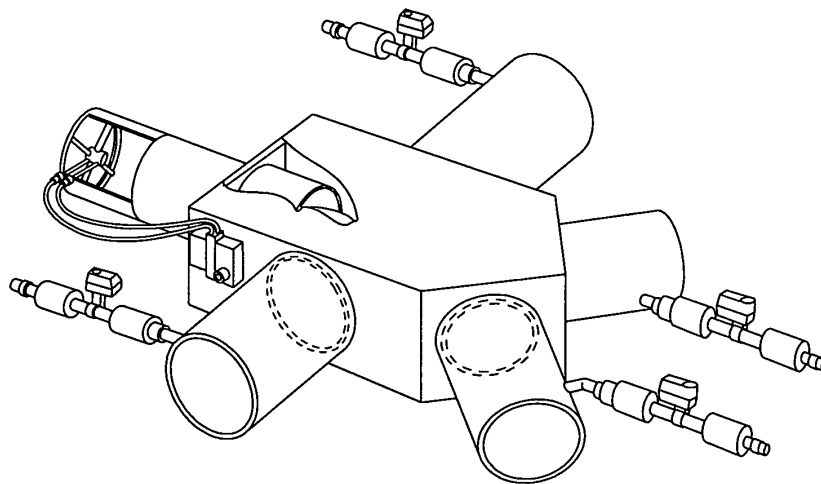


FIG. 4D

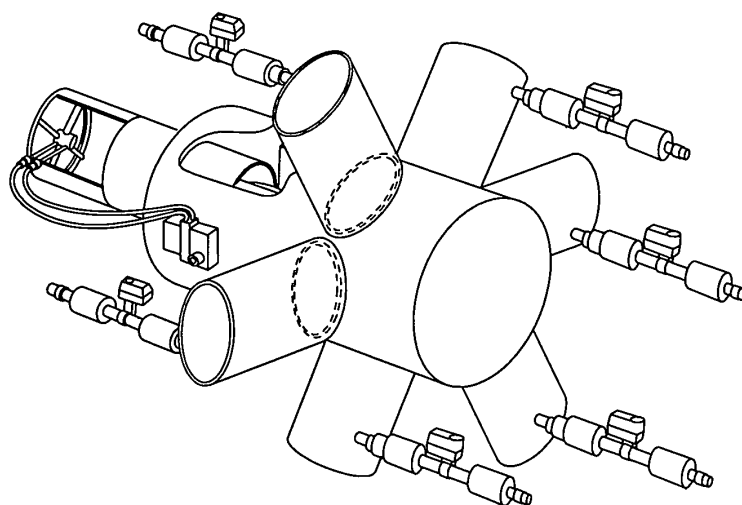


FIG. 4E

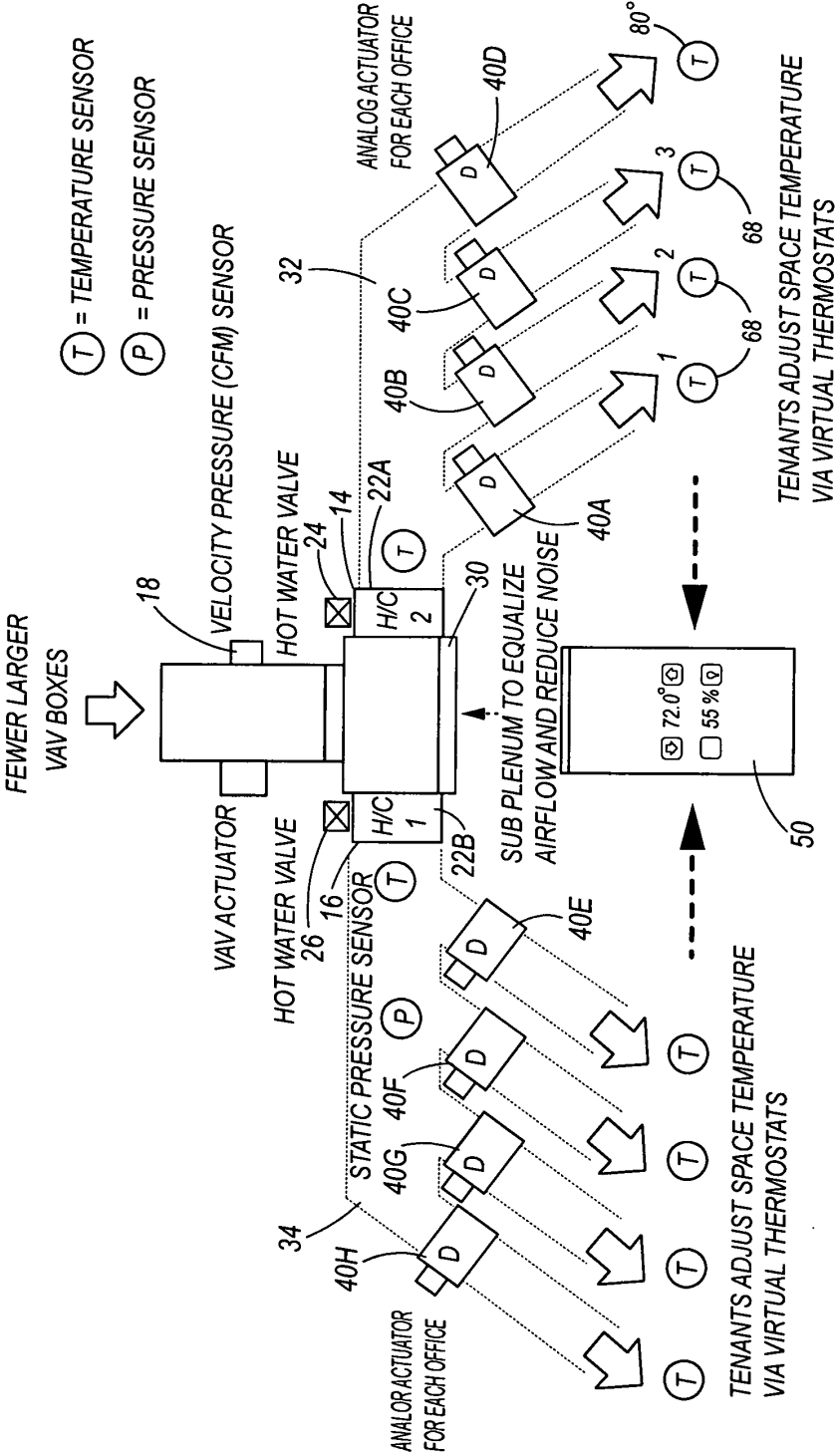


FIG. 5

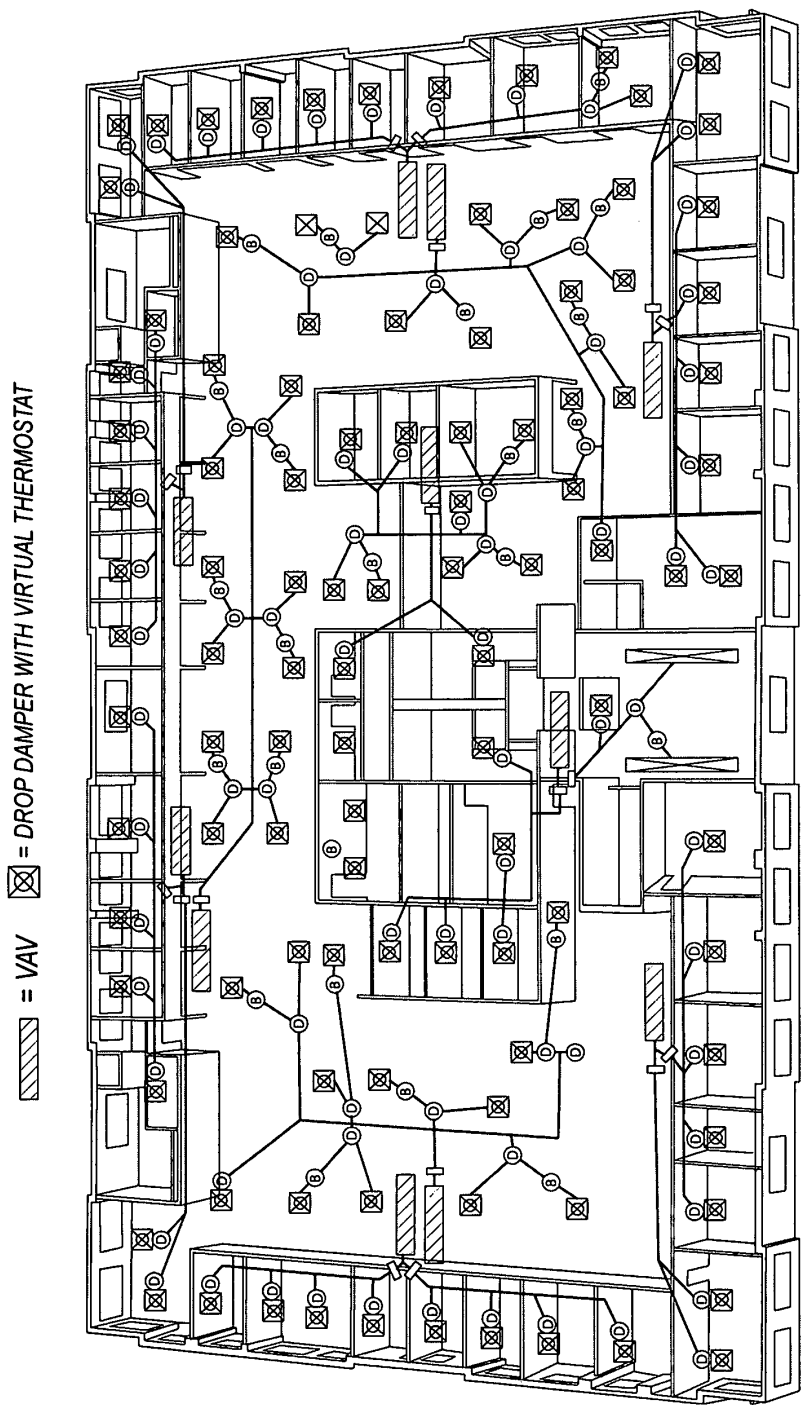


FIG. 6

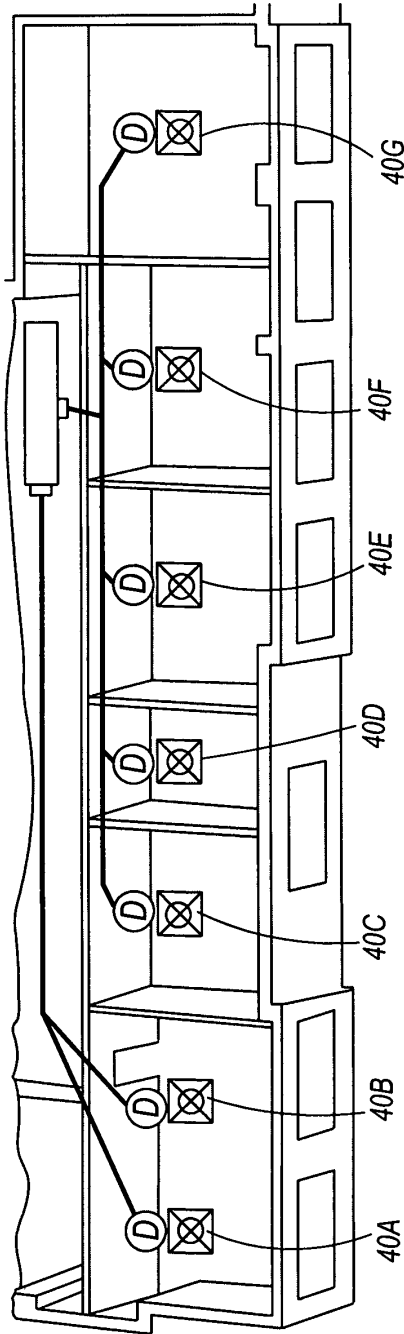
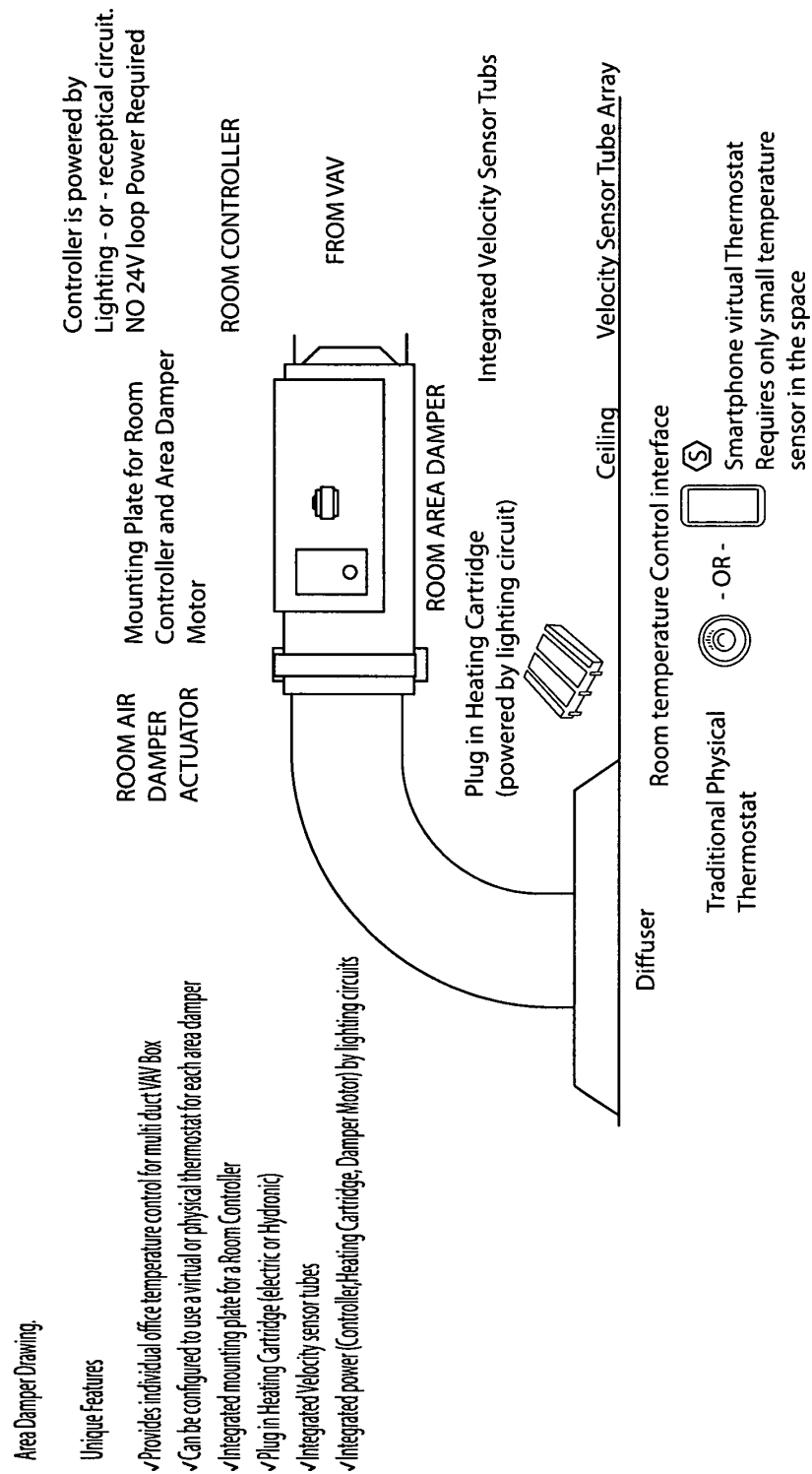
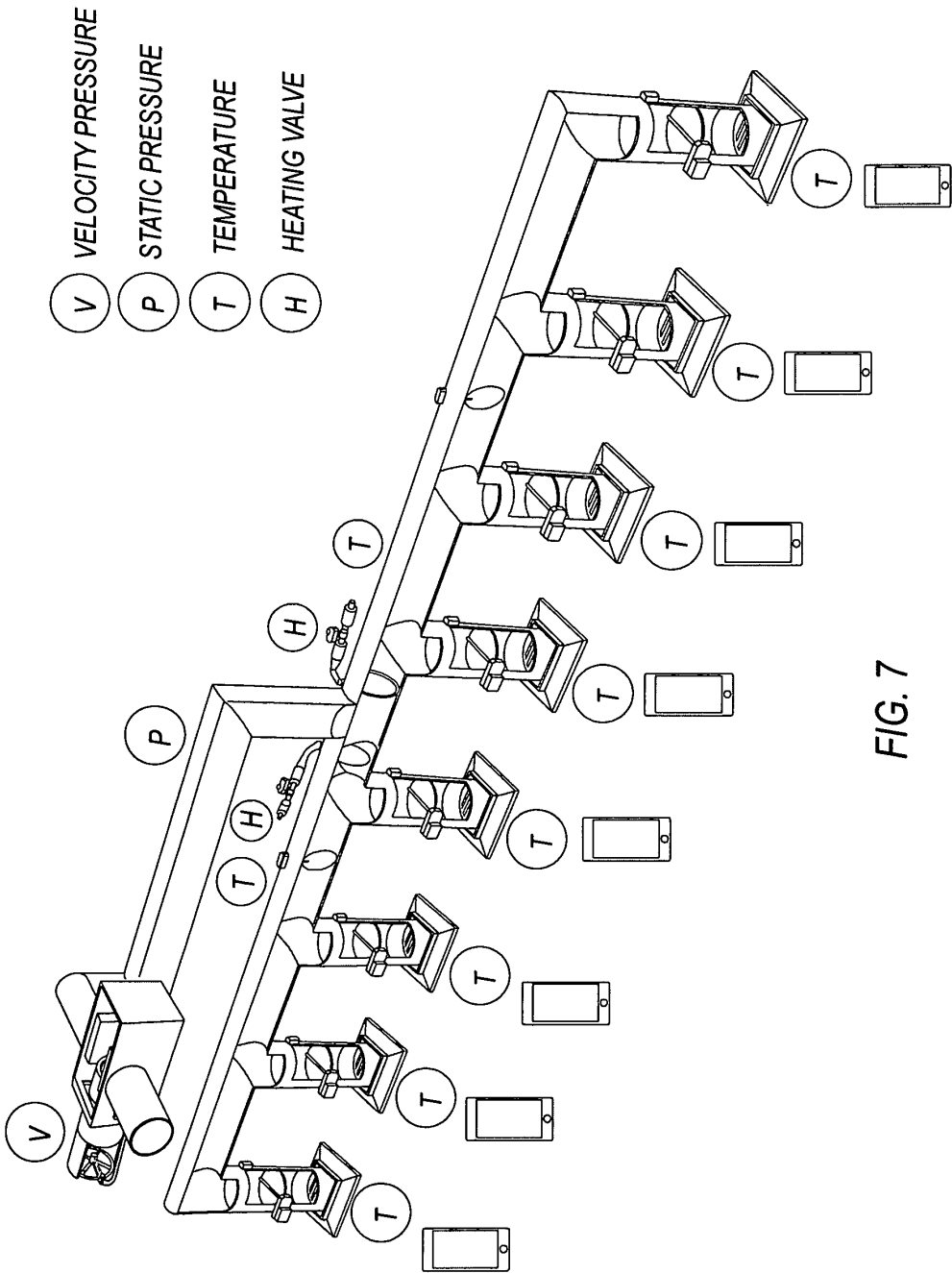


FIG. 6A





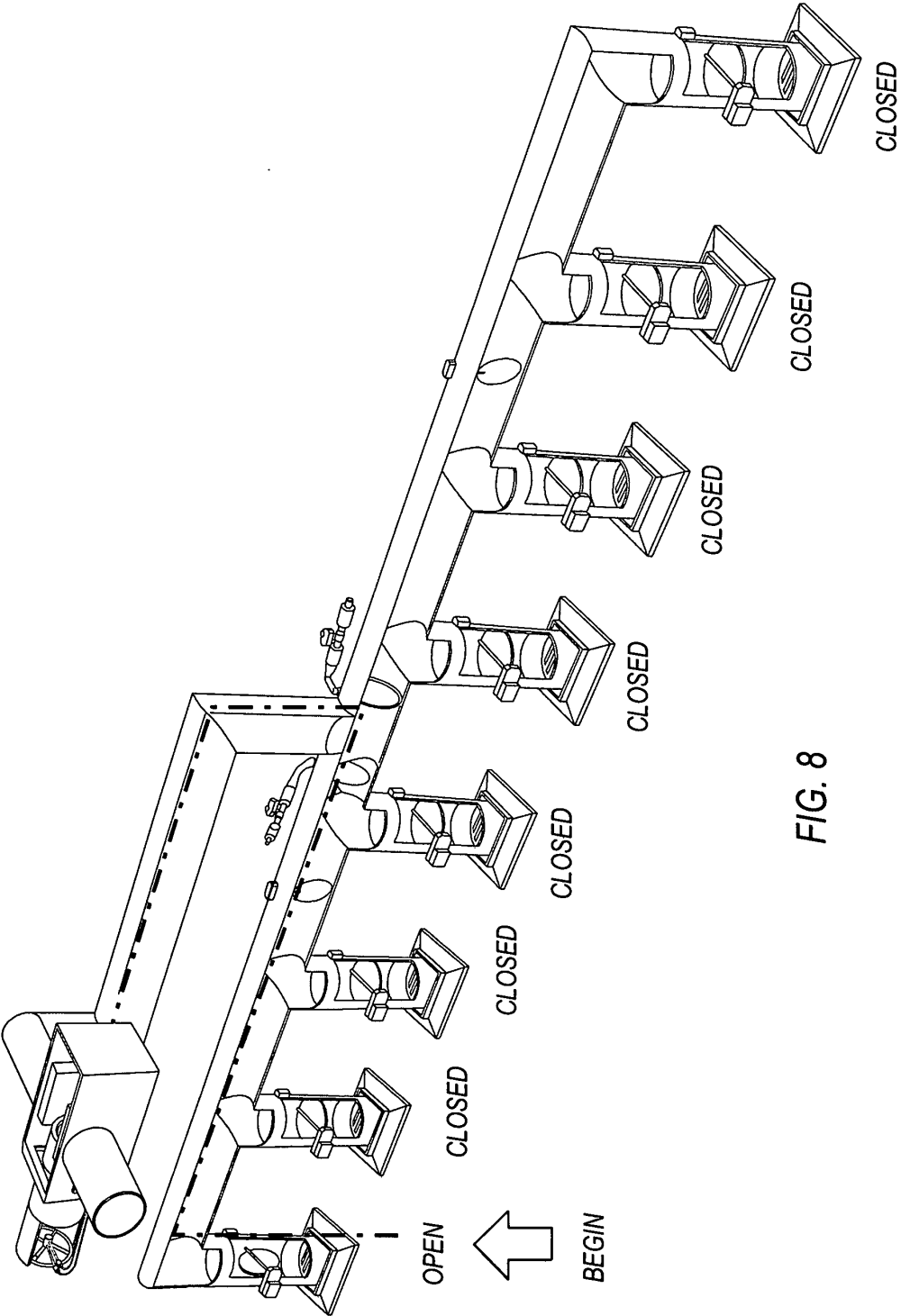
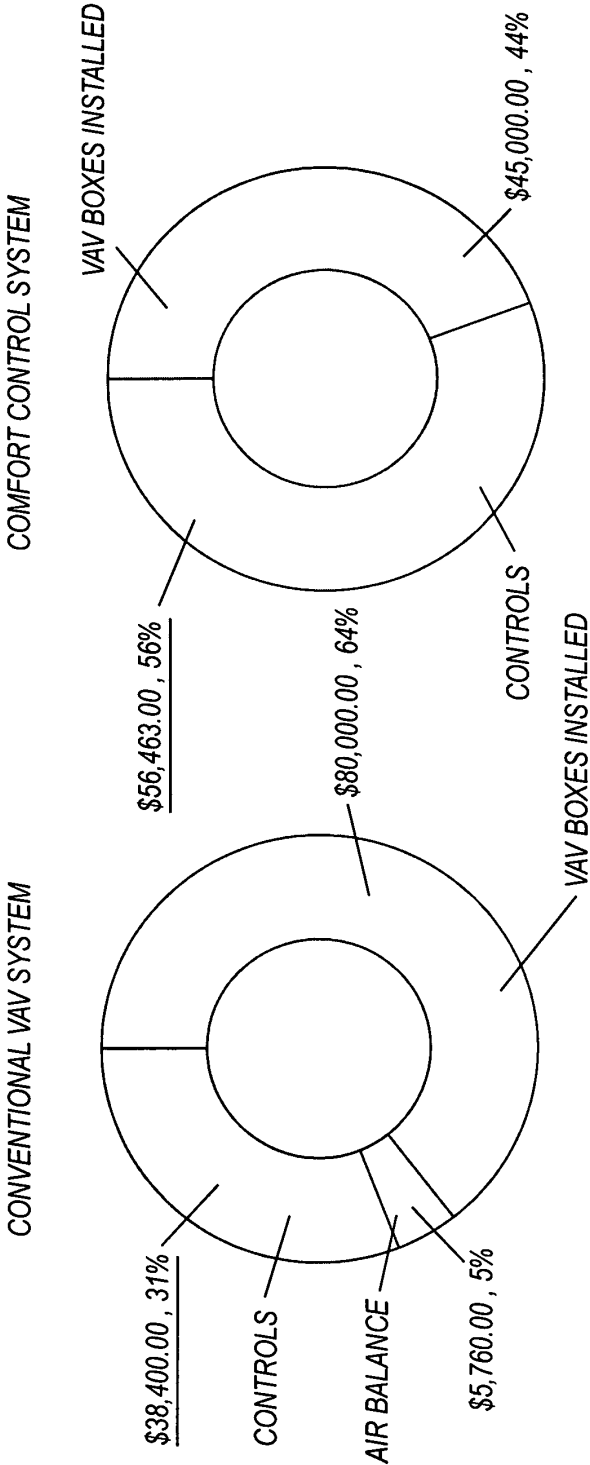


FIG. 8

PROJECT COST COMPARISON

MECHANICAL	\$80,000	\$45,000	56%
AIR BALANCE	\$5,760	\$0	0%
CONTROLS	\$38,400	\$56,463	147%



TOTAL COST: \$124,160

TOTAL COST: \$101,463 (-18% LESS)

FIG. 9

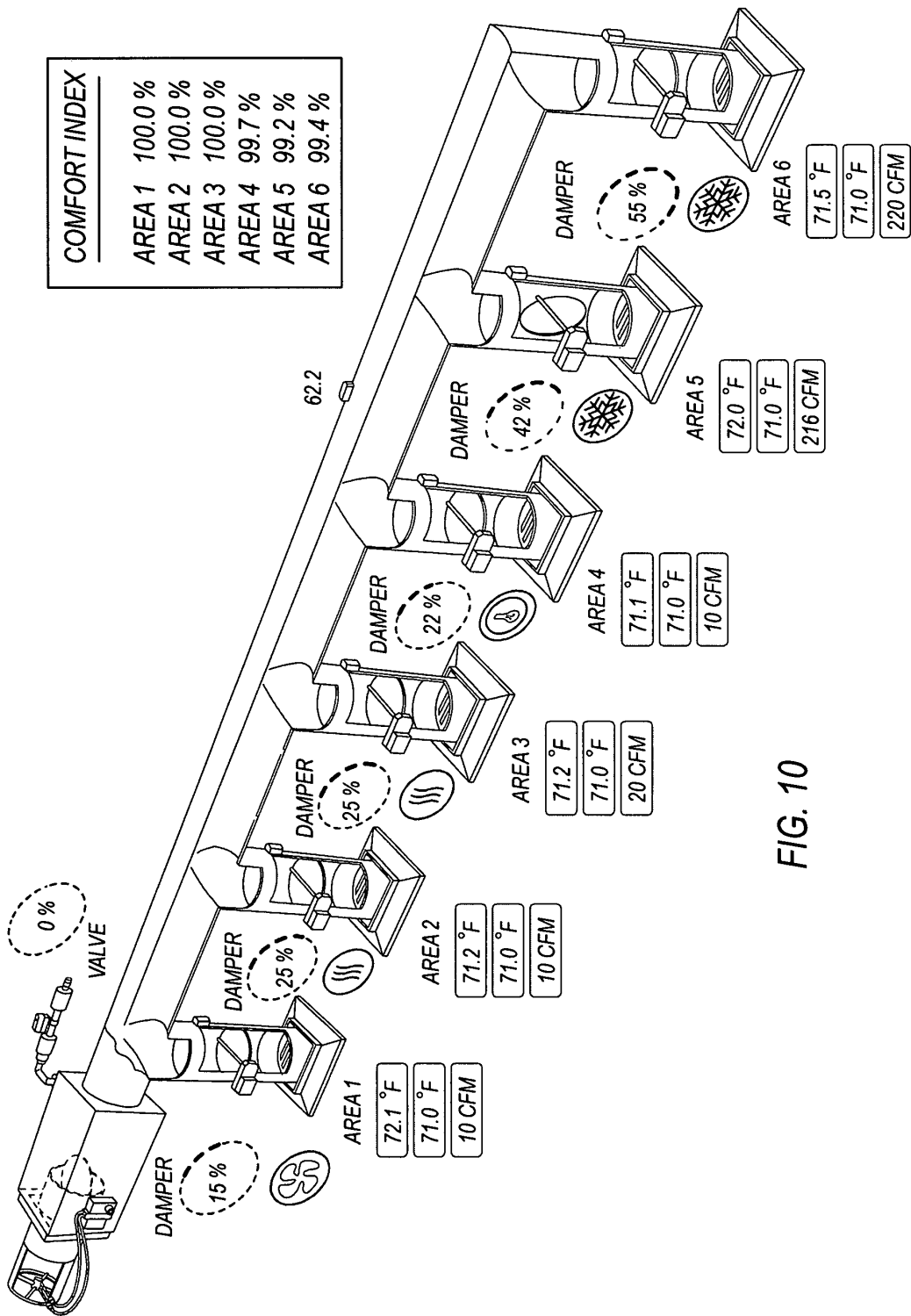


FIG. 10

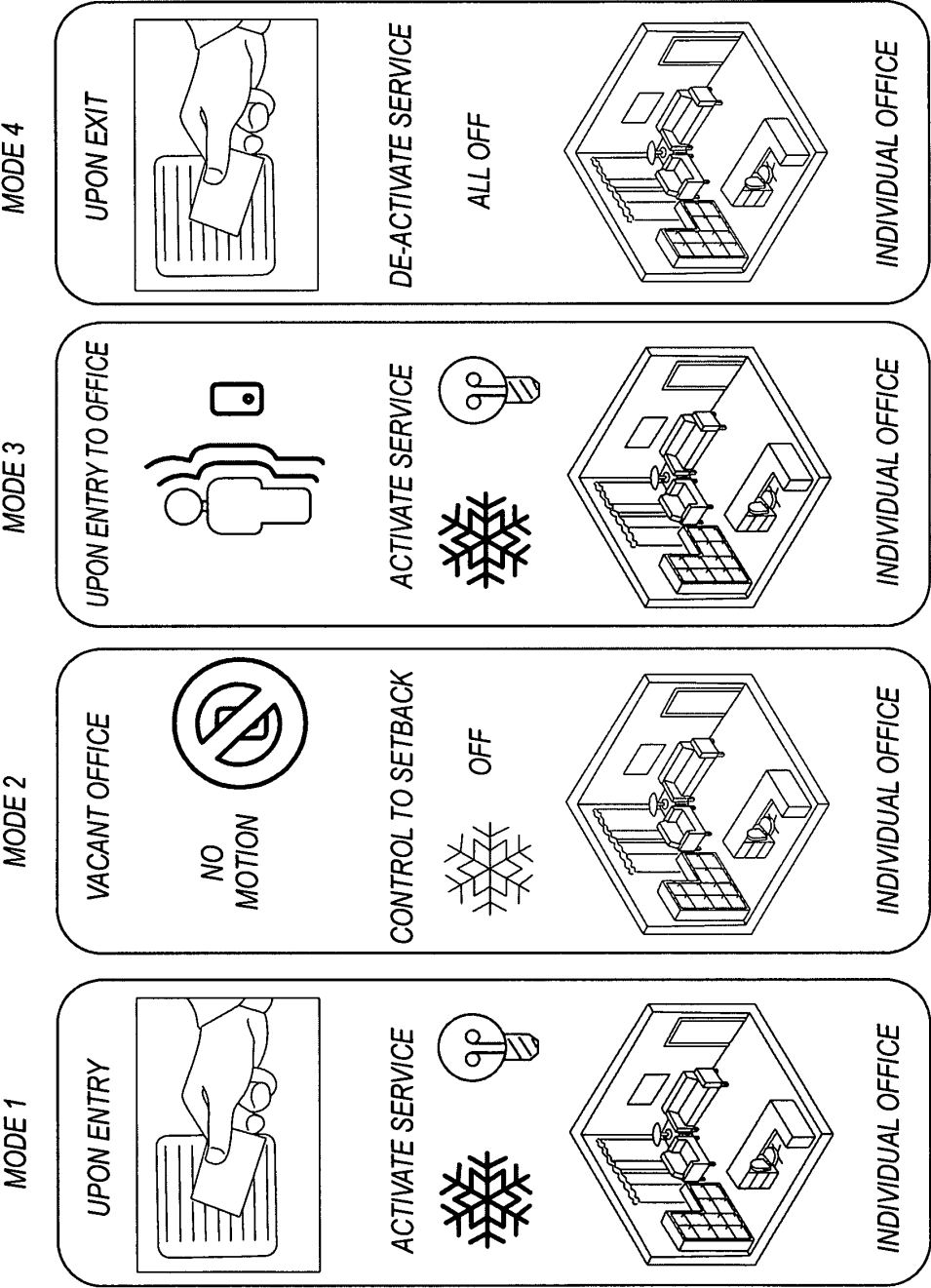


FIG. 11

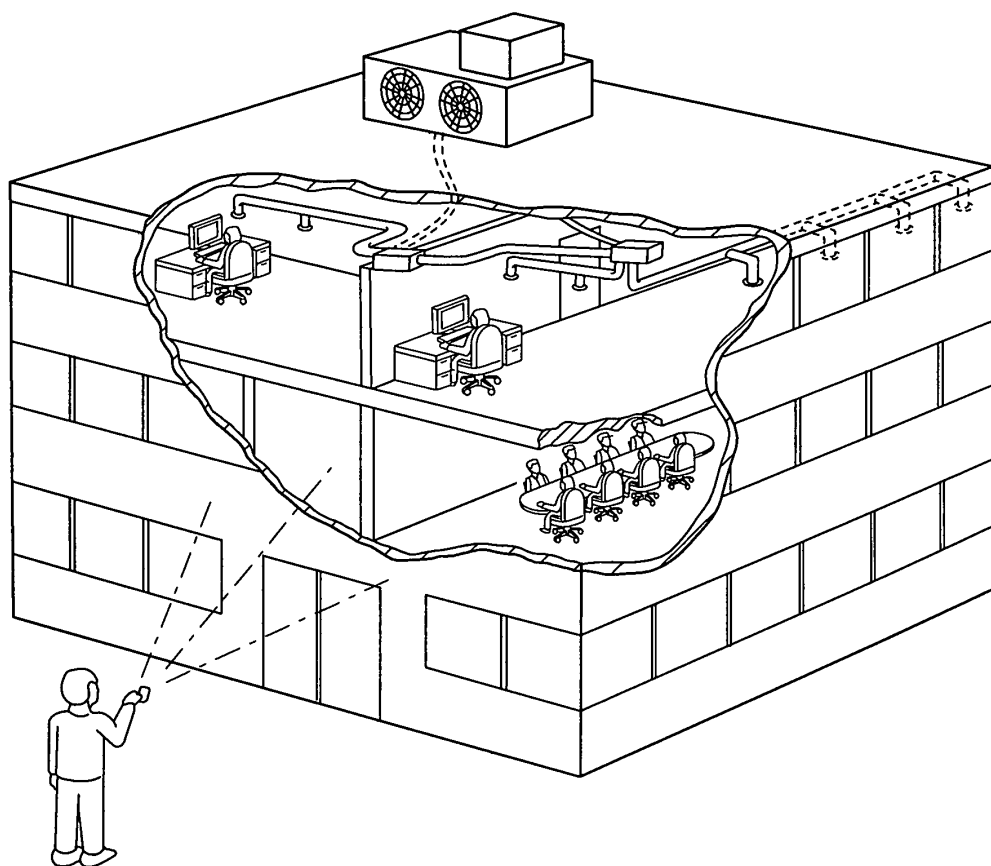


FIG. 12

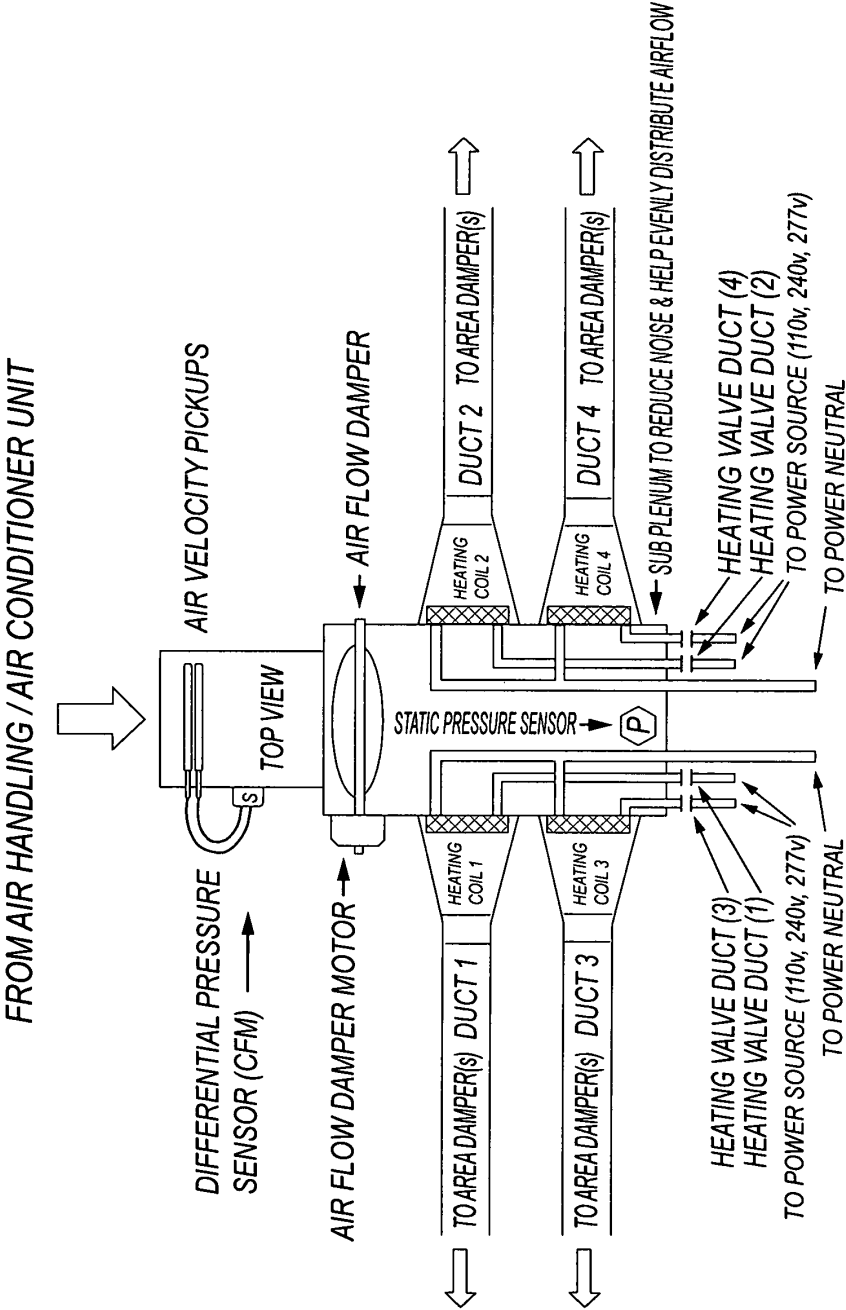


FIG. 13

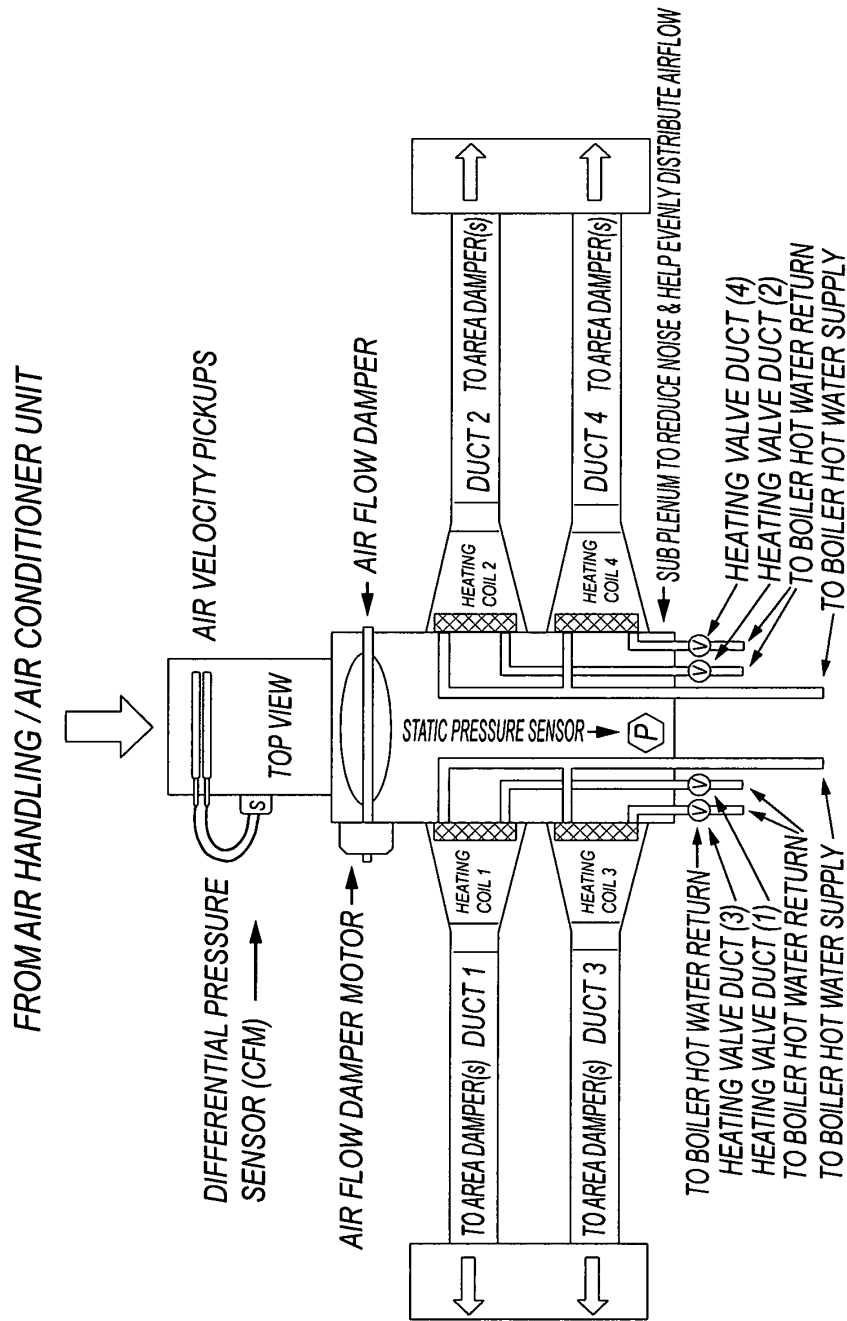
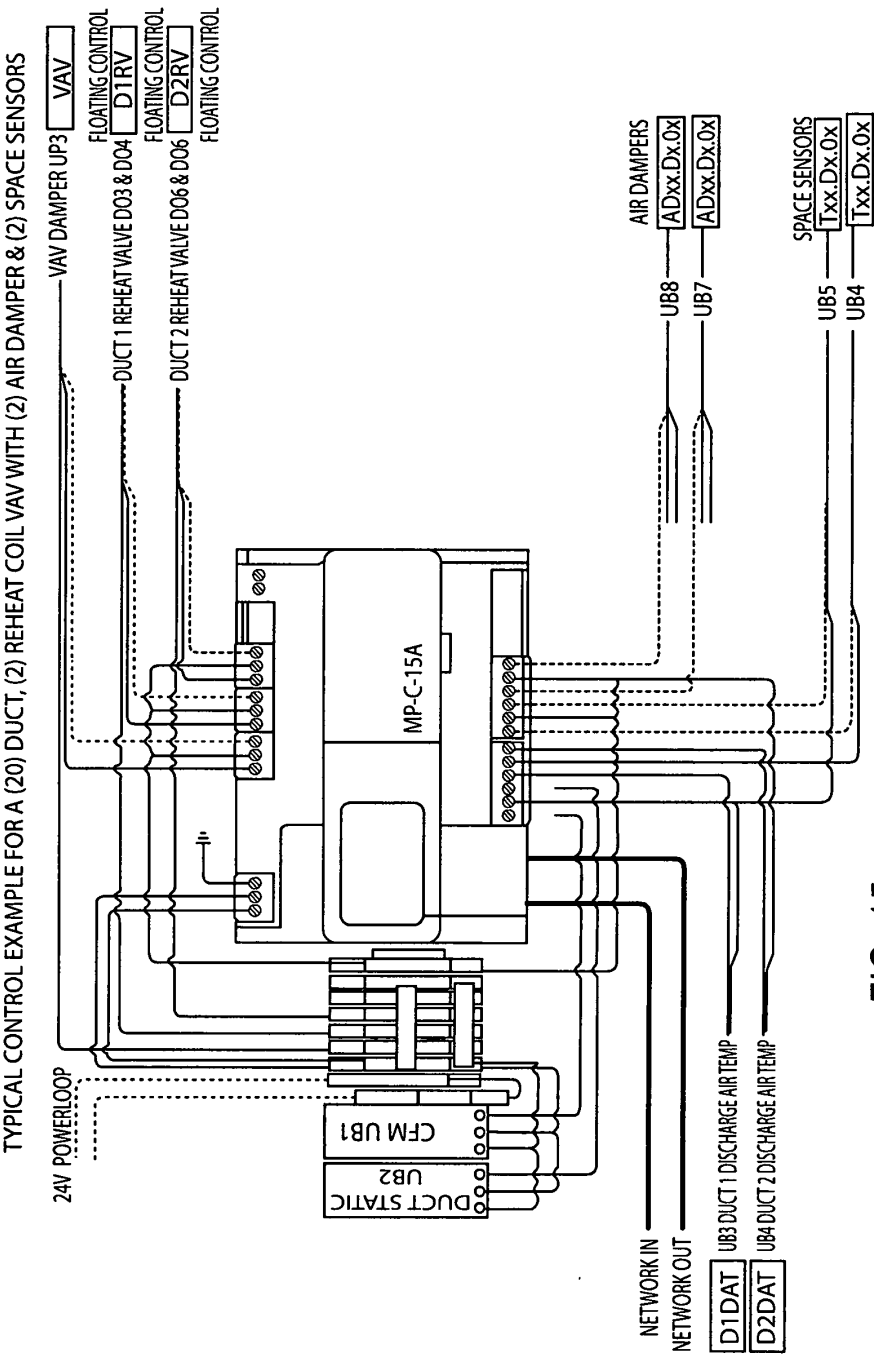


FIG. 14



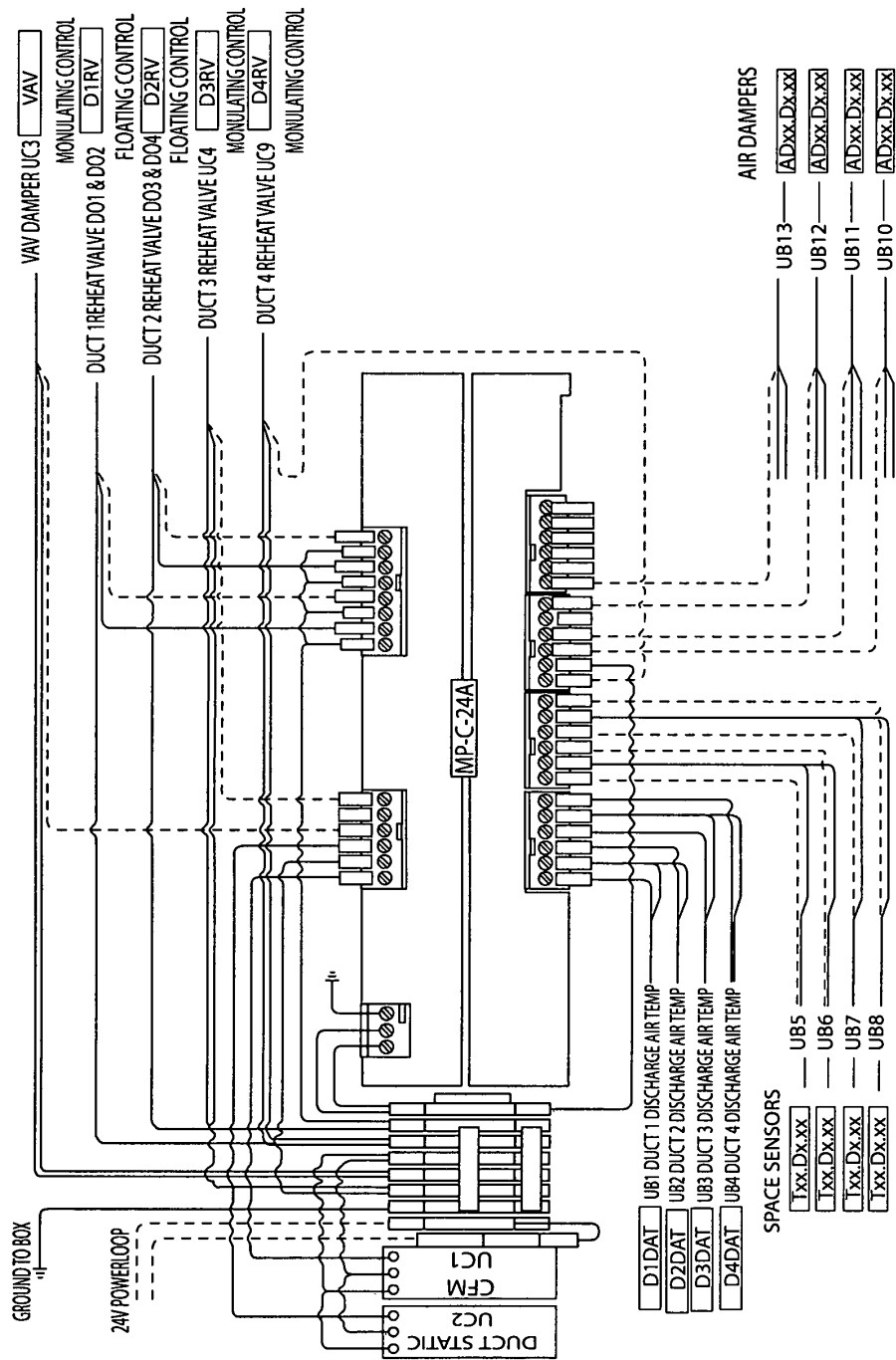


FIG. 16

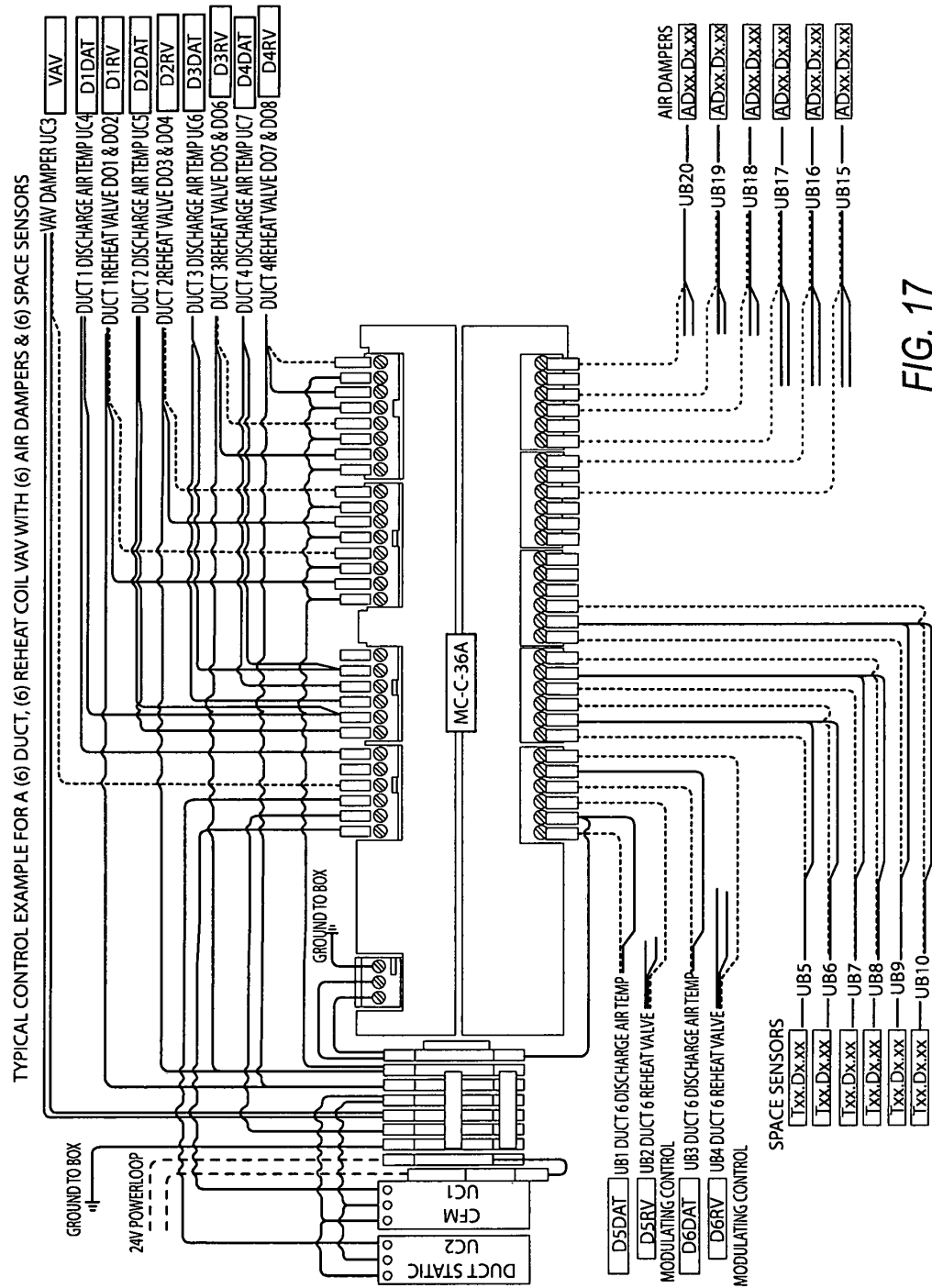
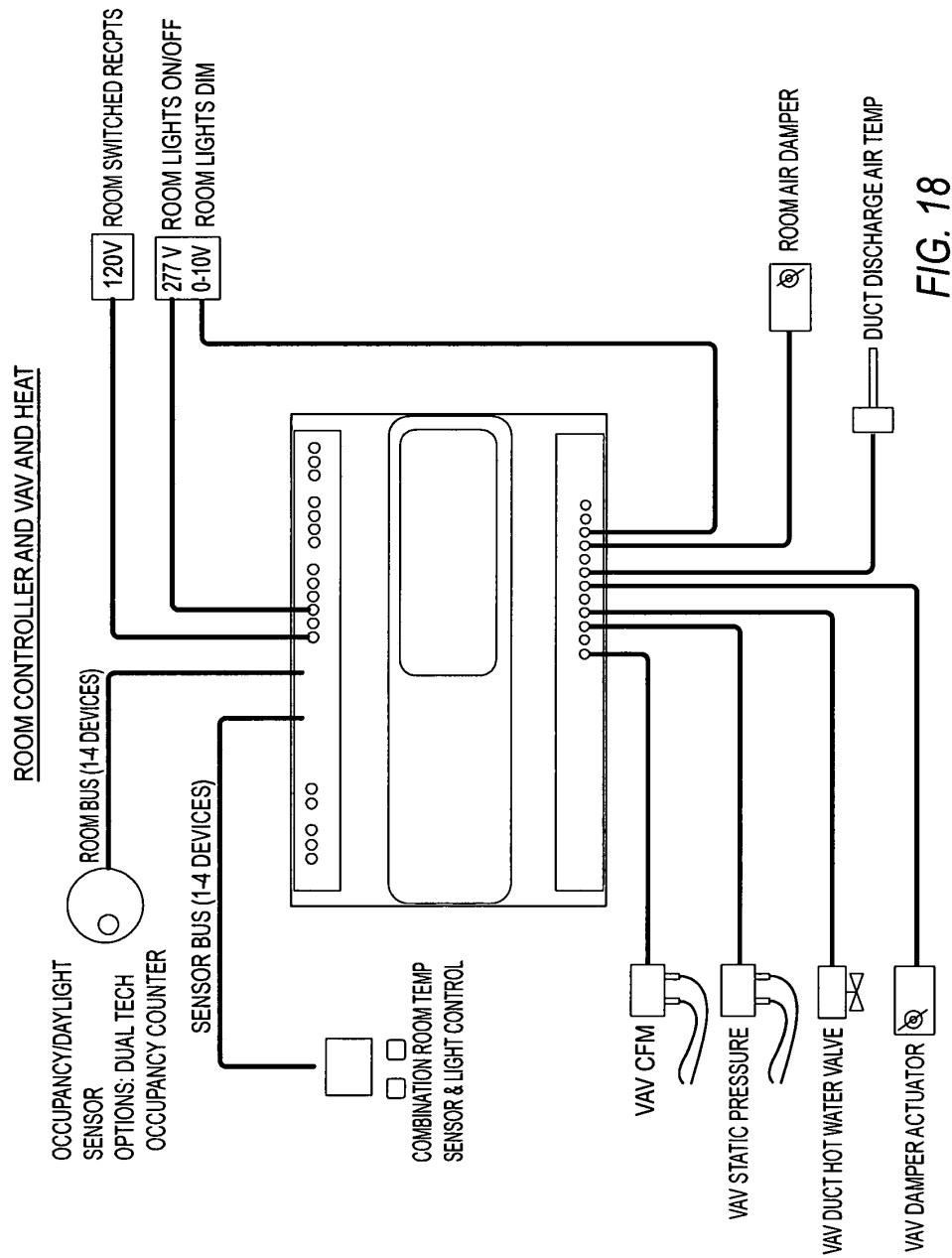


FIG. 17



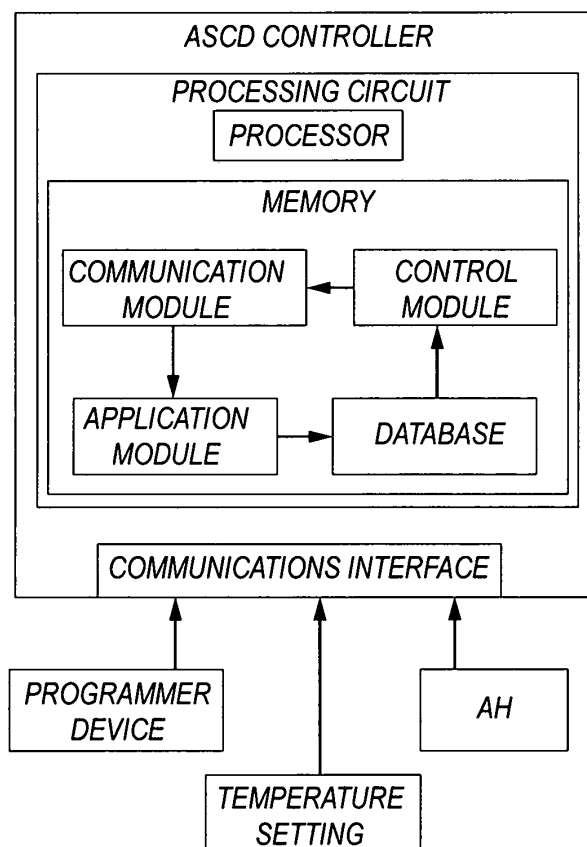


FIG. 19

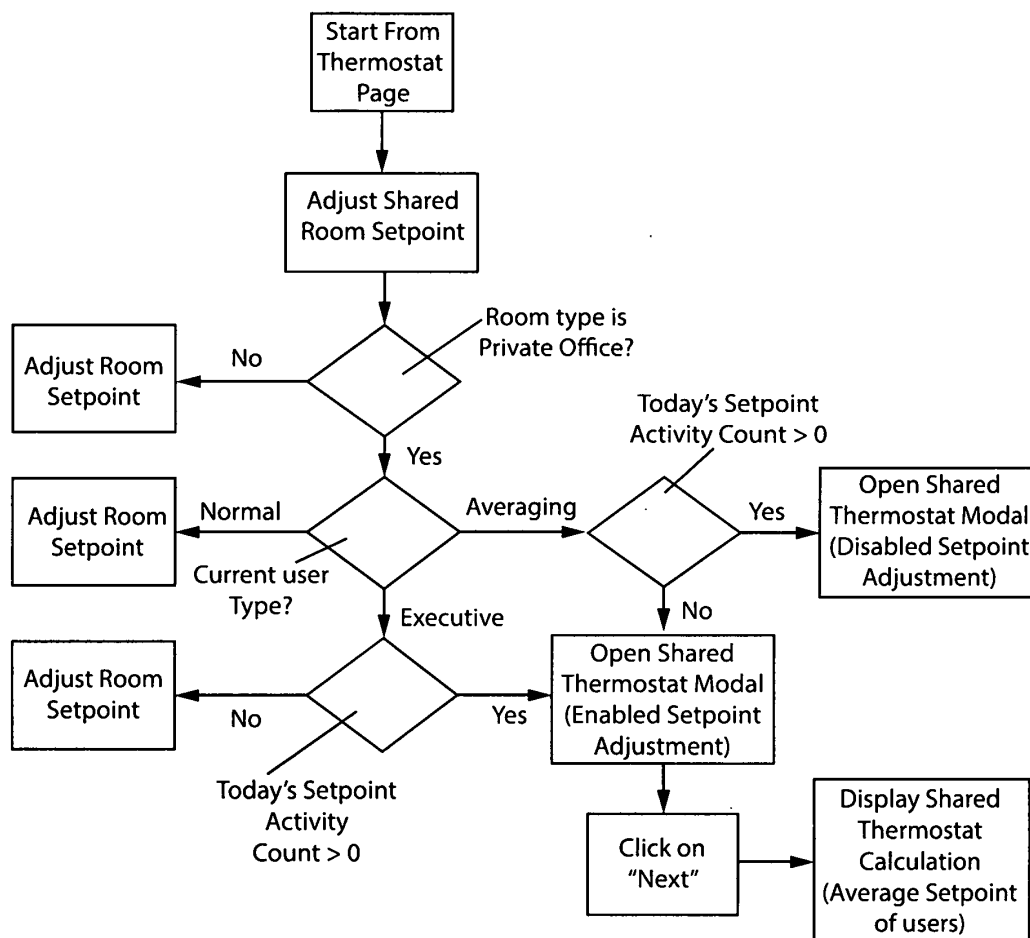


FIG. 20

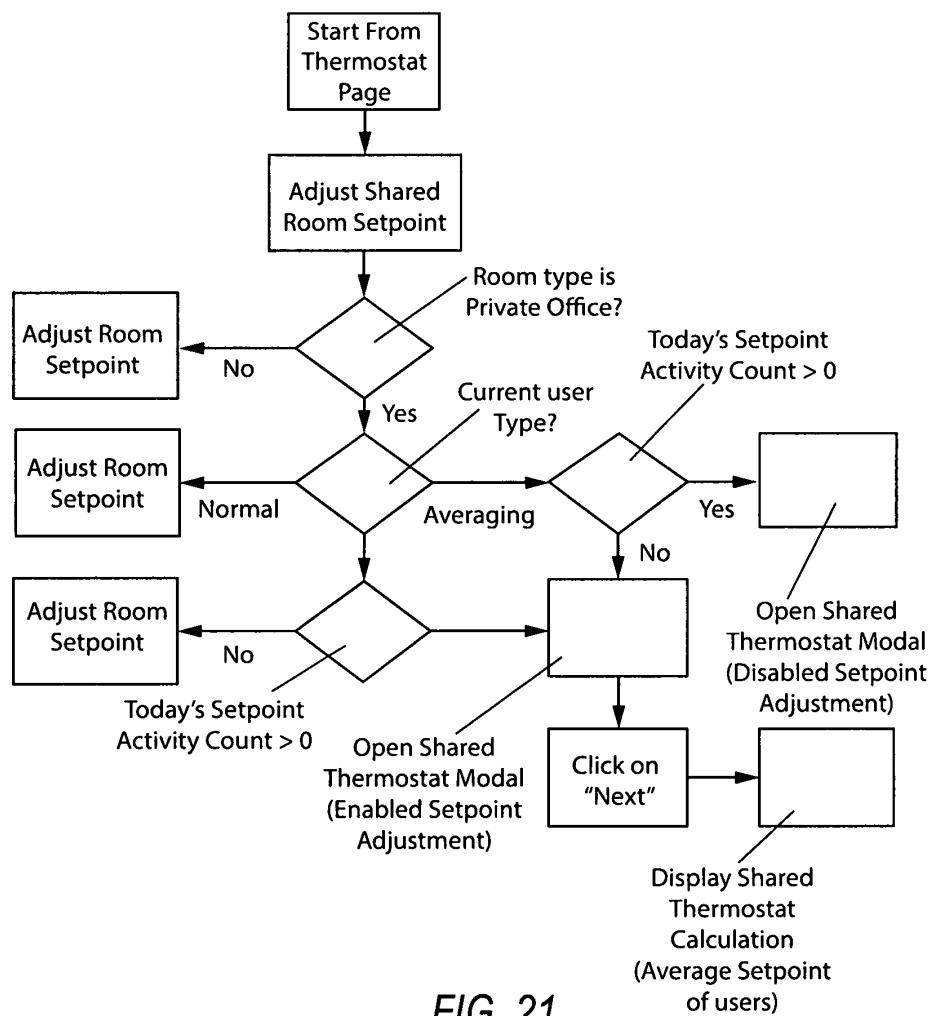


FIG. 21

#2 Flow Chart For Comfort Index

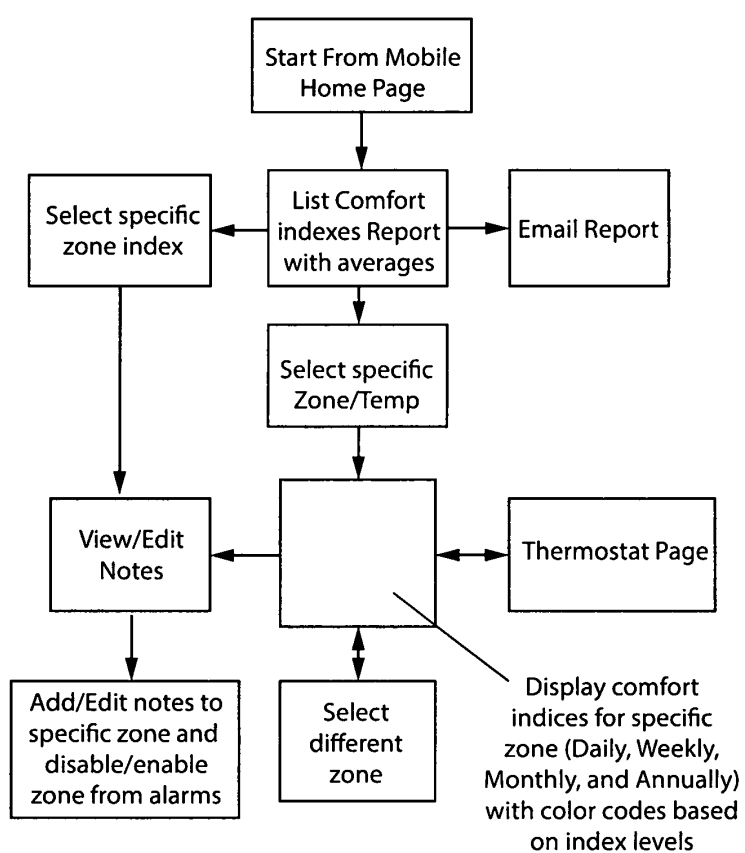


FIG. 22

Flow Chart for Fault Detection

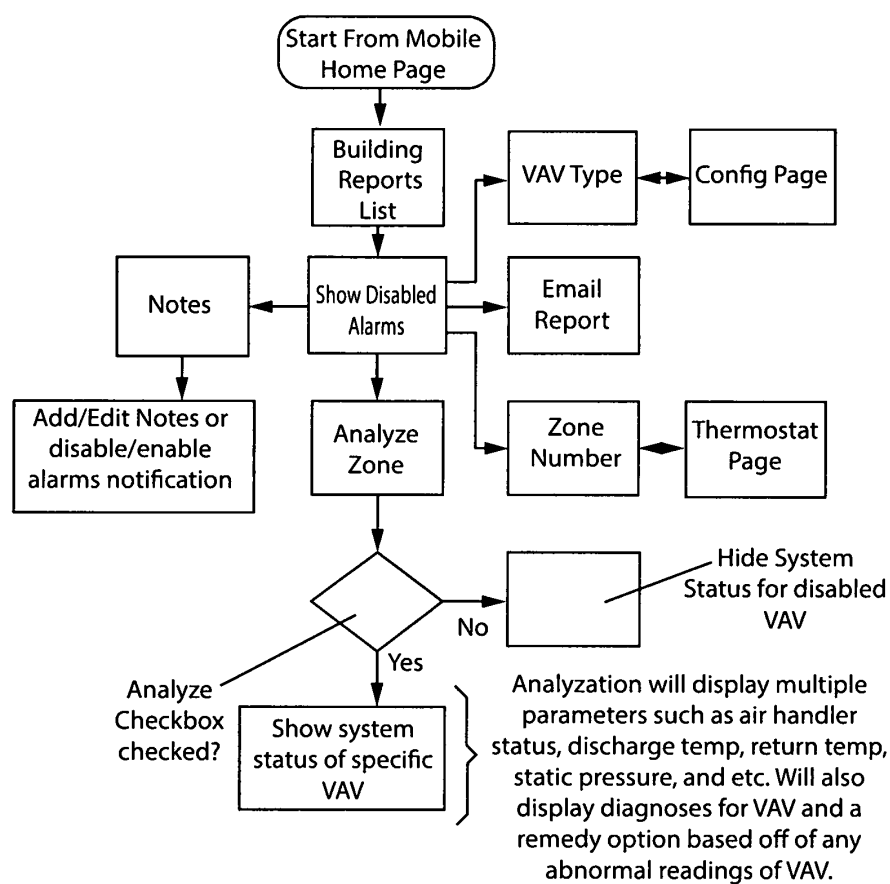


FIG. 23

Advanced Automated Comfort Control App

Daily Setback Report

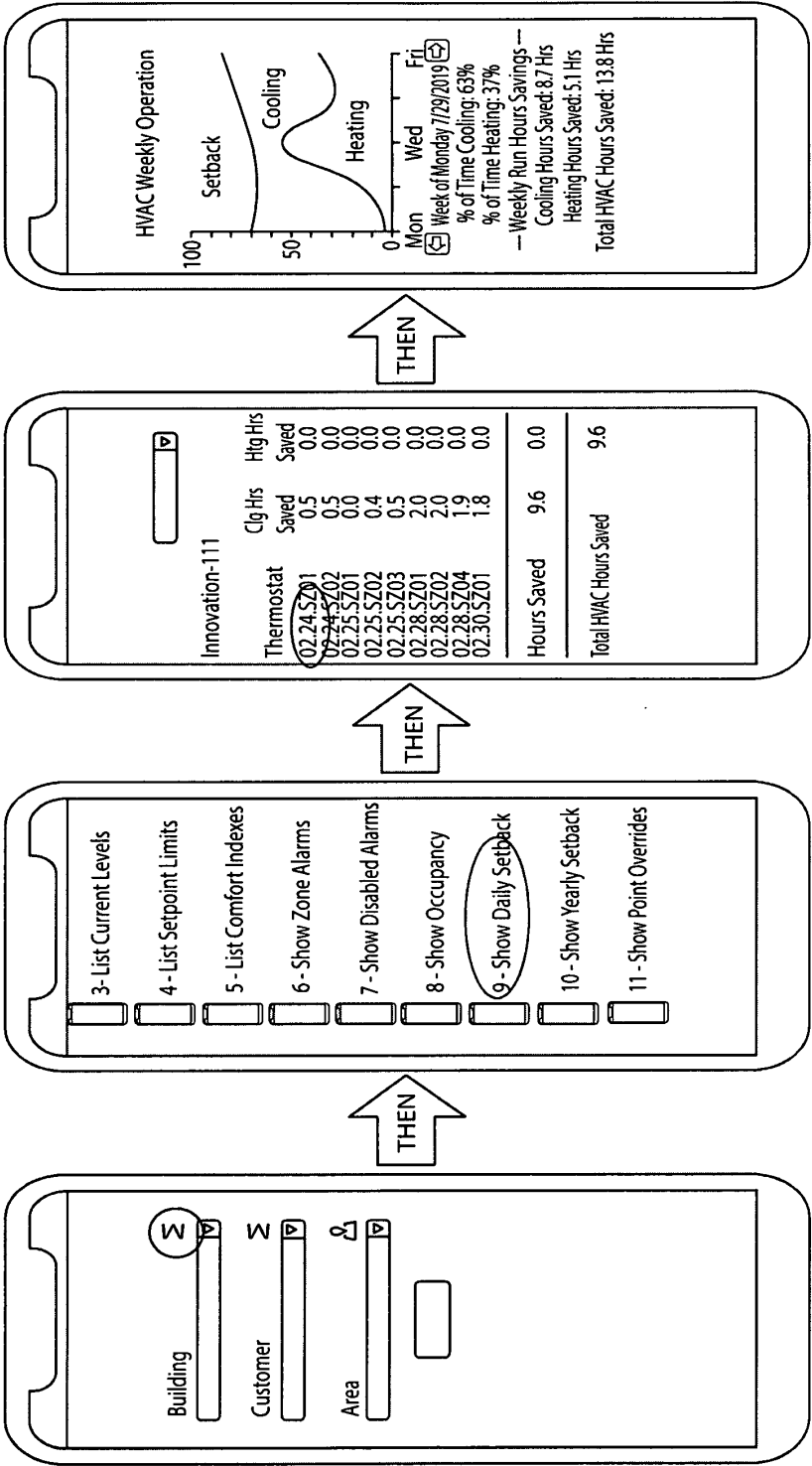


FIG. 24

Advanced Automated Comfort Control App

Yearly Setback Report

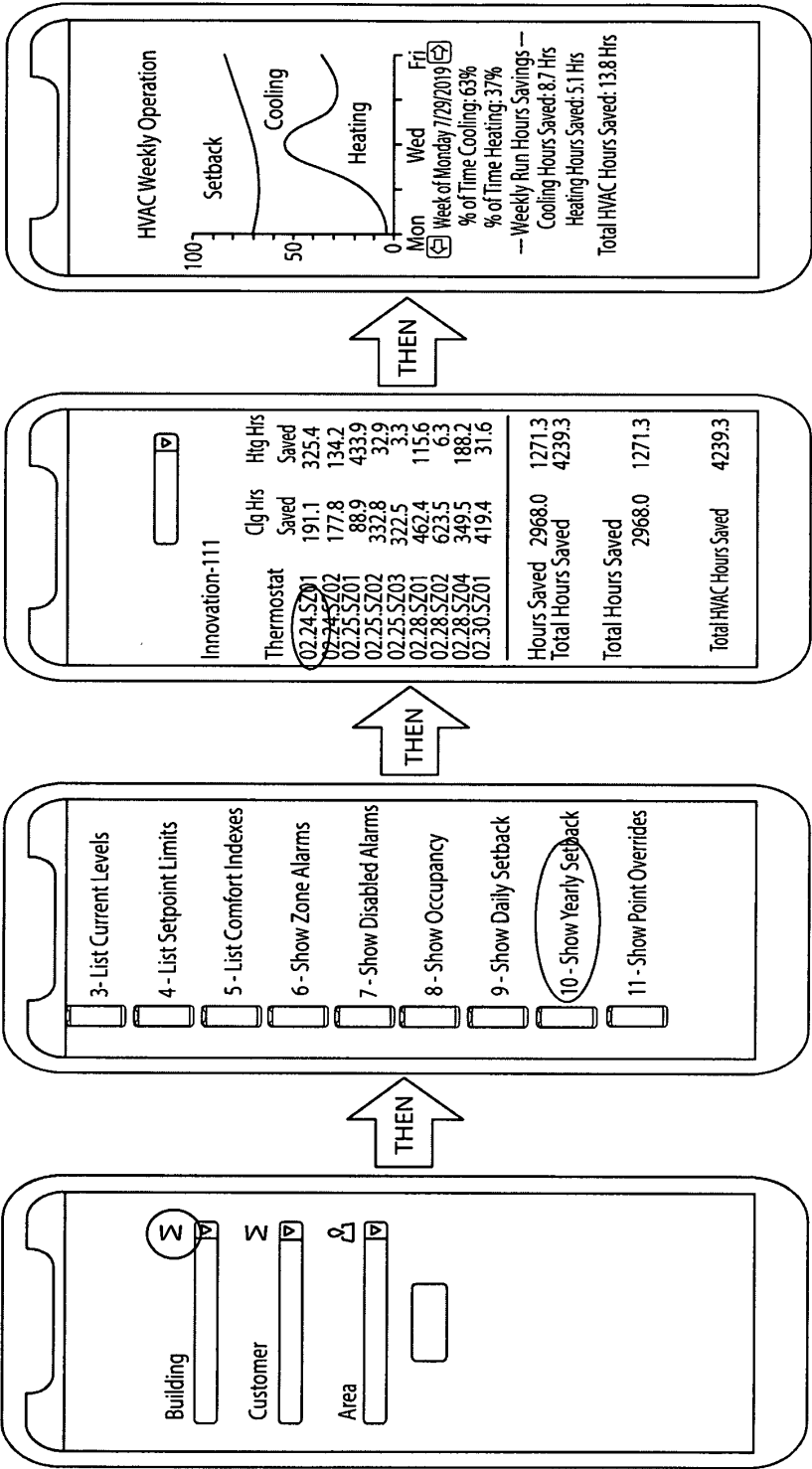
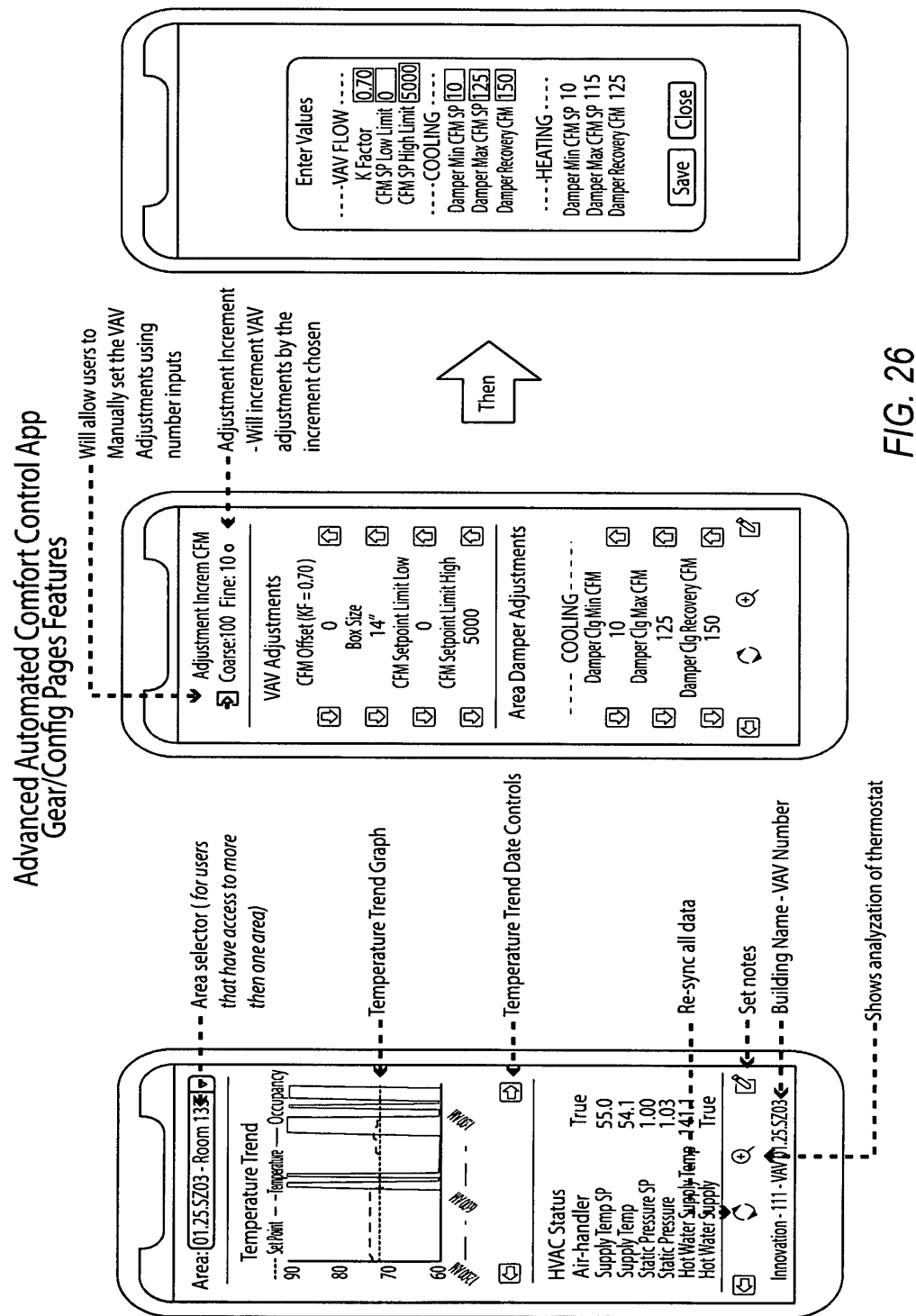


FIG. 25



Advanced Automated Comfort Control App

Show Zone Alarms Report

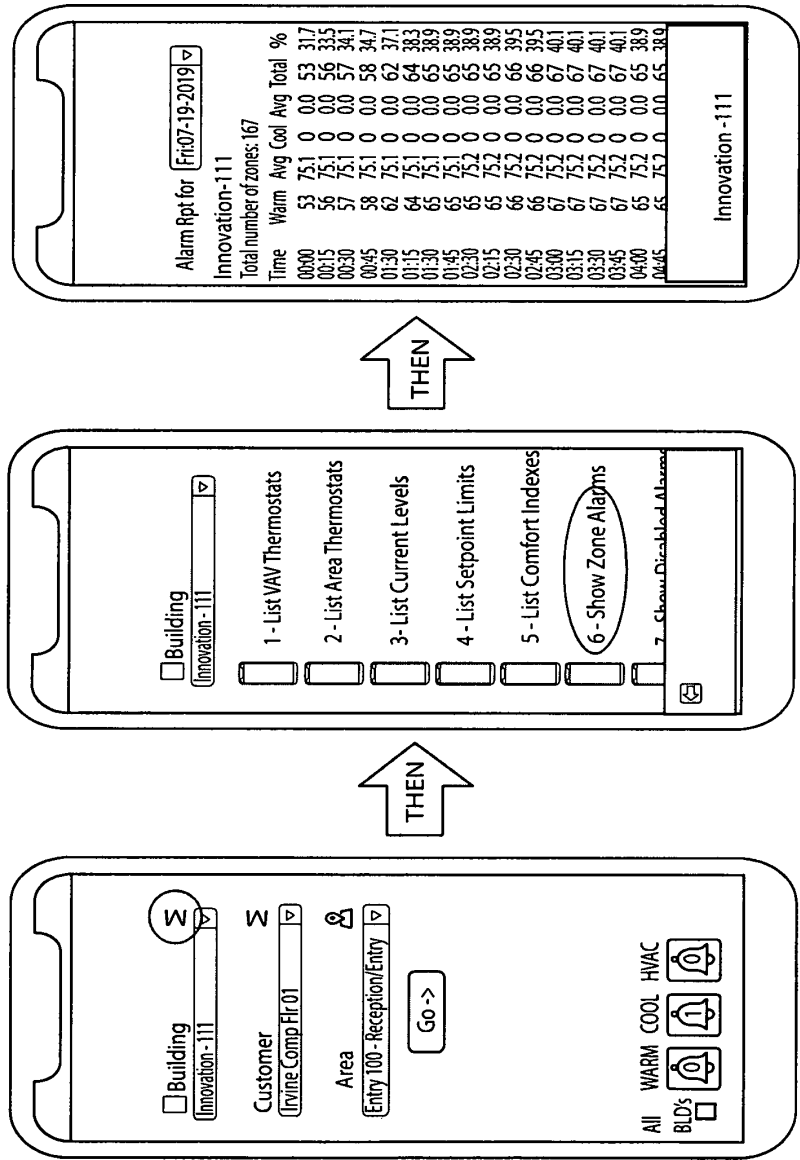


FIG. 27

The "Show Zone Alarms" will display a list of all the alarms starting from 12am in 15 minutes increments.

Time is displayed in military time

Warm displays the number of thermostats that had a difference between setpoint temp and current Temp greater than the set threshold (2.75° default).

Cool displays the number of Thermostats that were cooler than the setpoint temp by the set threshold (2.75° default).

Avg displays the average temperature of the faulted thermostats

Total is the total number of faults between warm and cool faults. The % Represents the percent of zones that have faults

* note: The number of faults displayed is high because the thermostats are turned off since the office is not in use (@ 12am-5:00am)

Advanced Automated Comfort Control App
Virtual Thermostat Types

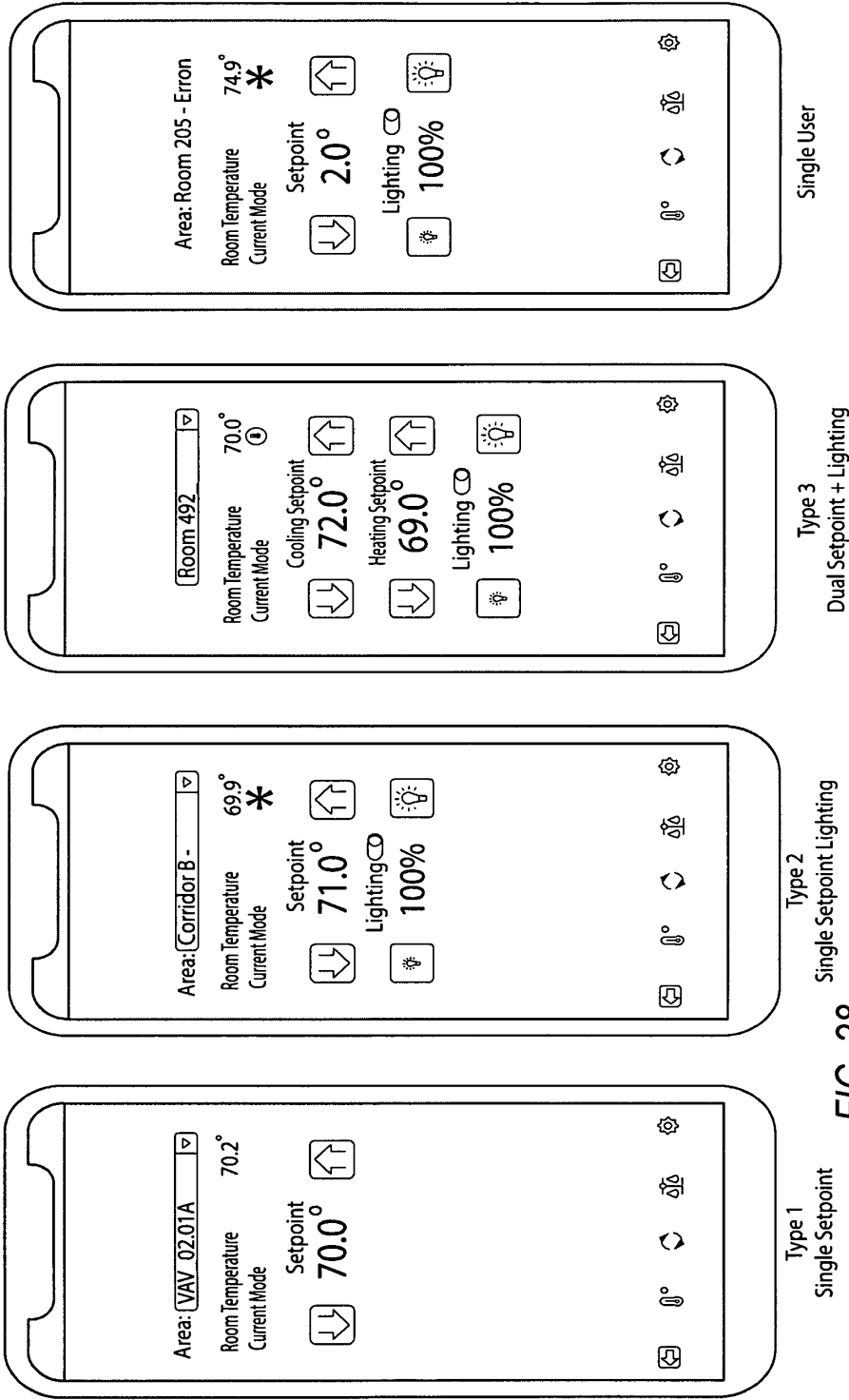


FIG. 28

On Boarding - All Users & Roles (Apple Phones)

Step 1

When the "Go" Email button is pushed the system will automatically be directed to this page

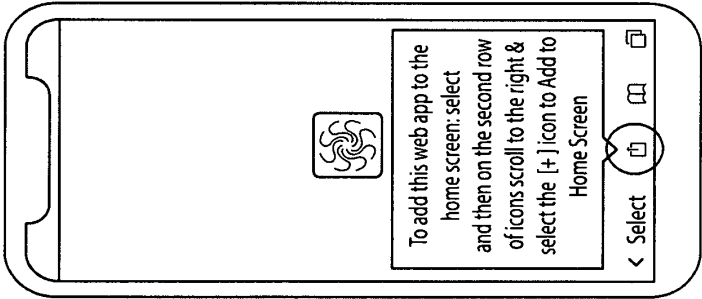
Step 2

Select add to home screen.

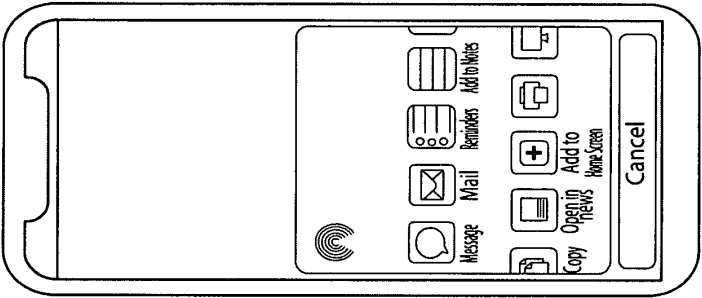
Step 3

Select Add.

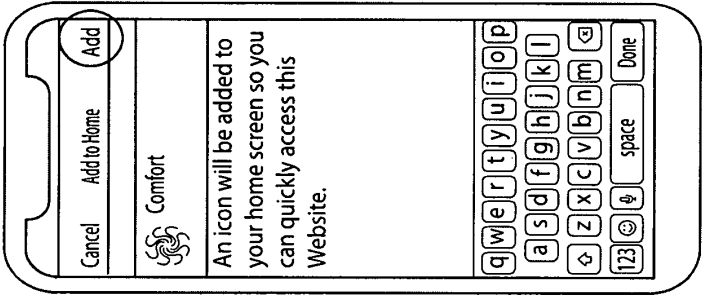
The Comfort icon is now on the phone home screen. The app is now ready for use.



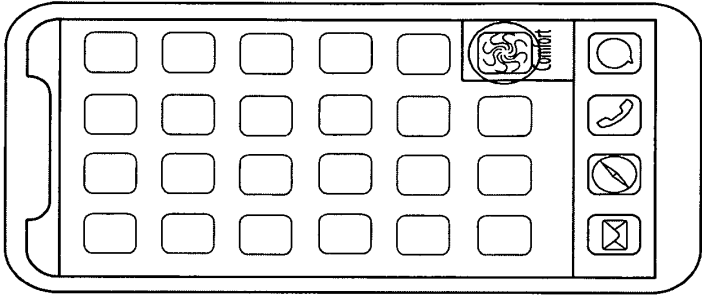
Apple Users Only



Apple Users Only



Apple Users Only



Apple Users Only

FIG. 30

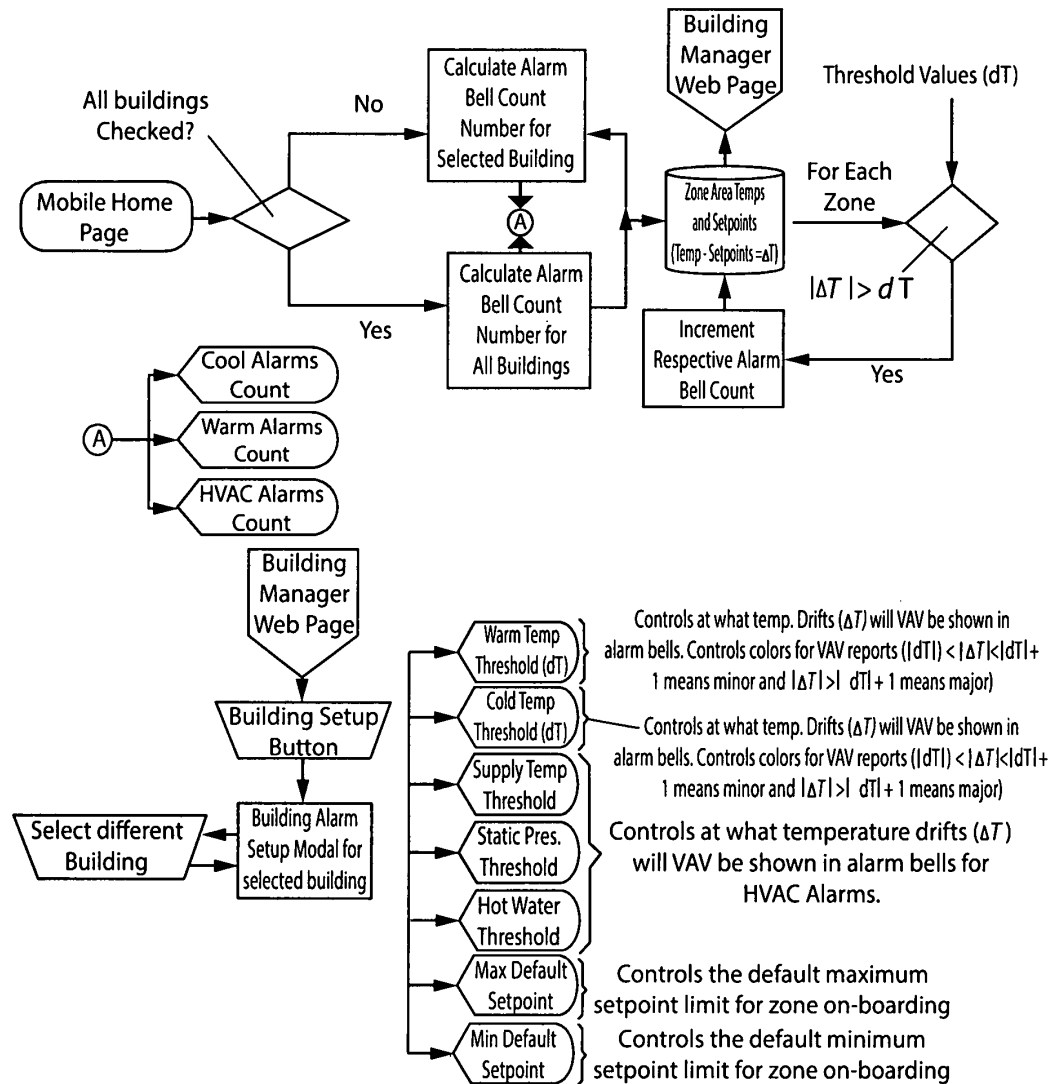


FIG. 31

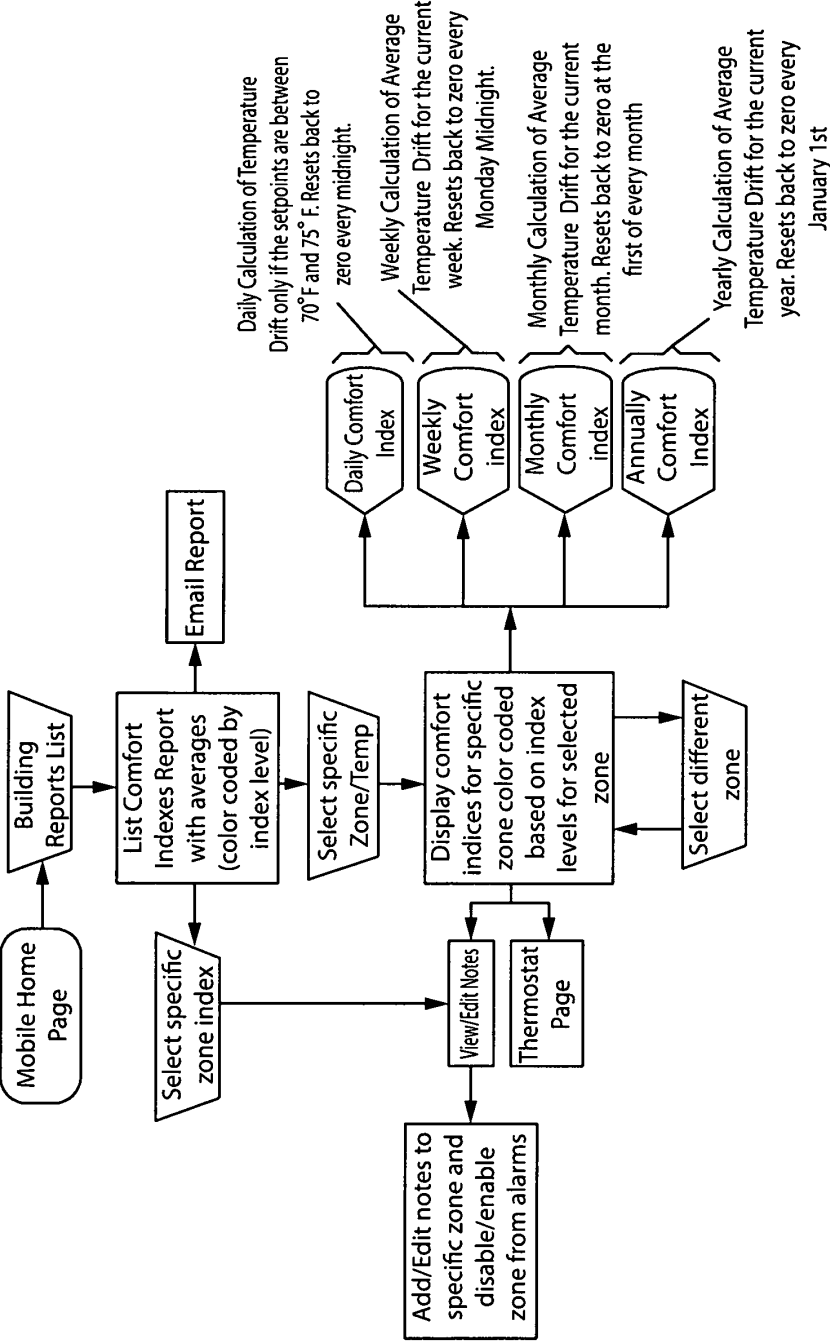


FIG. 32

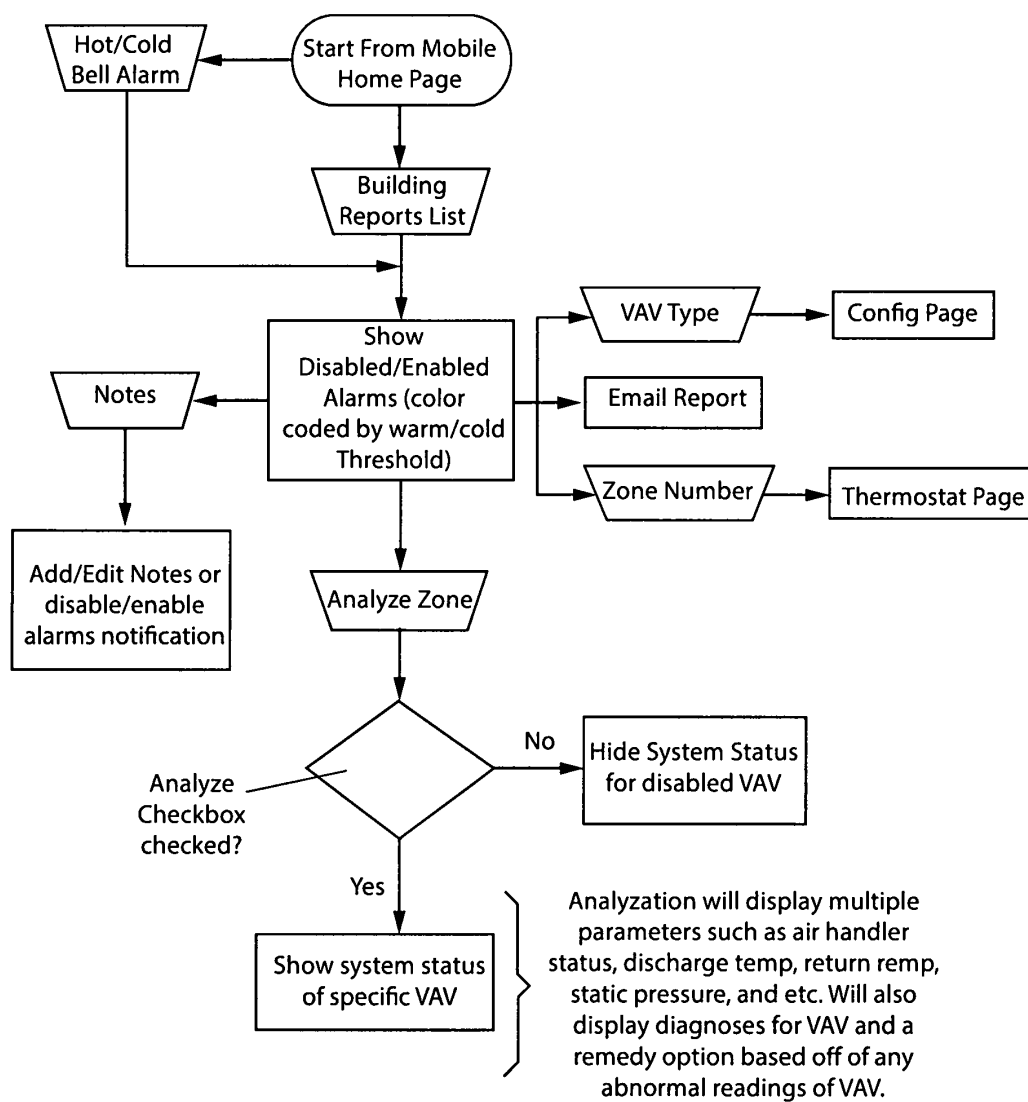


FIG. 33

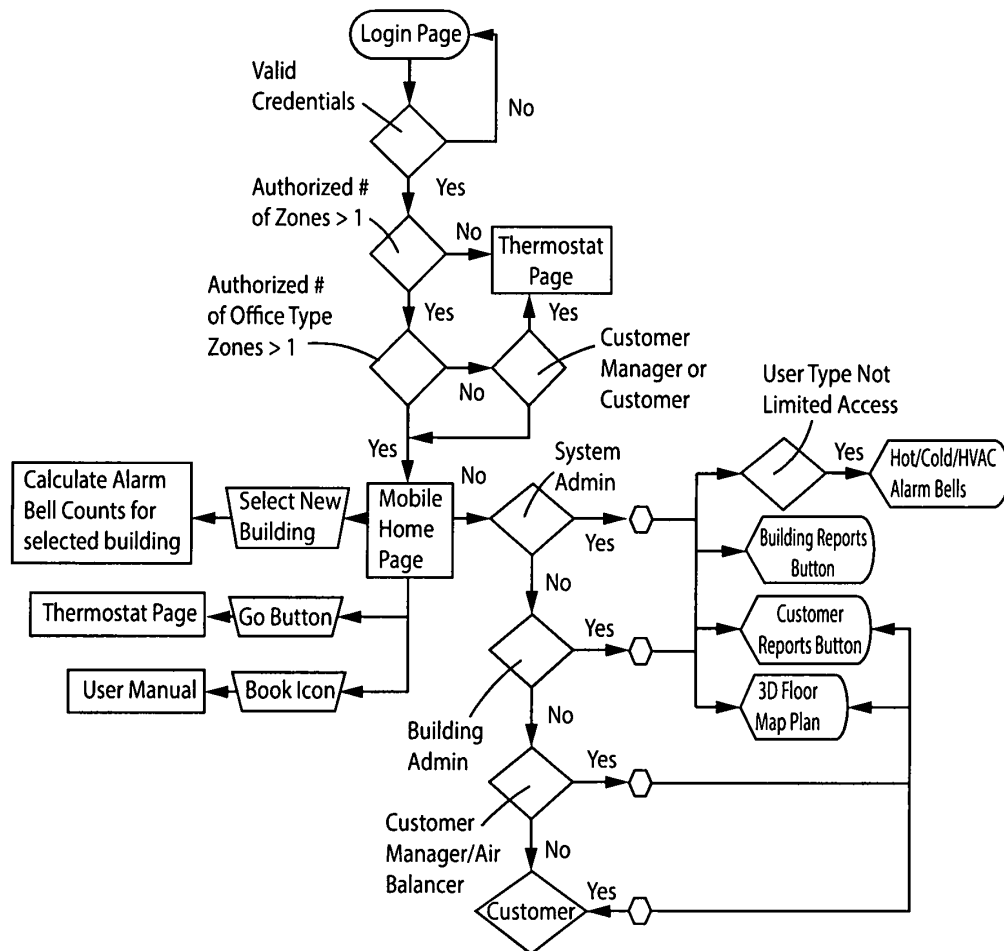


FIG. 34

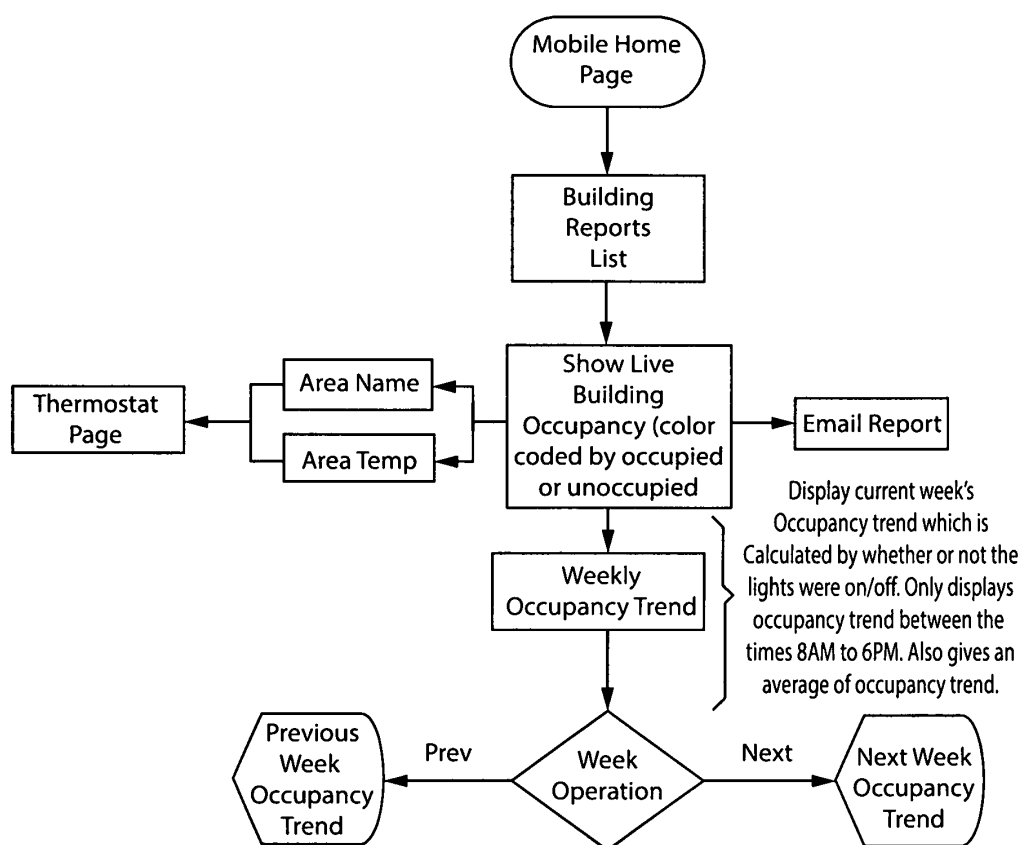
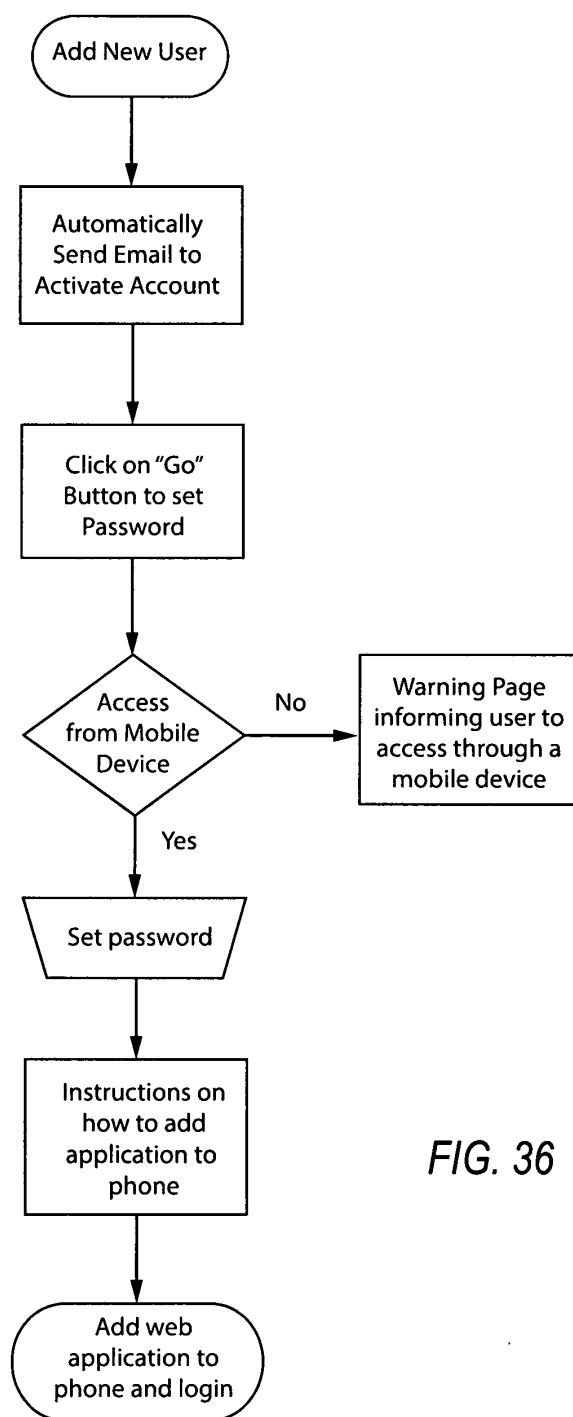


FIG. 35

**FIG. 36**

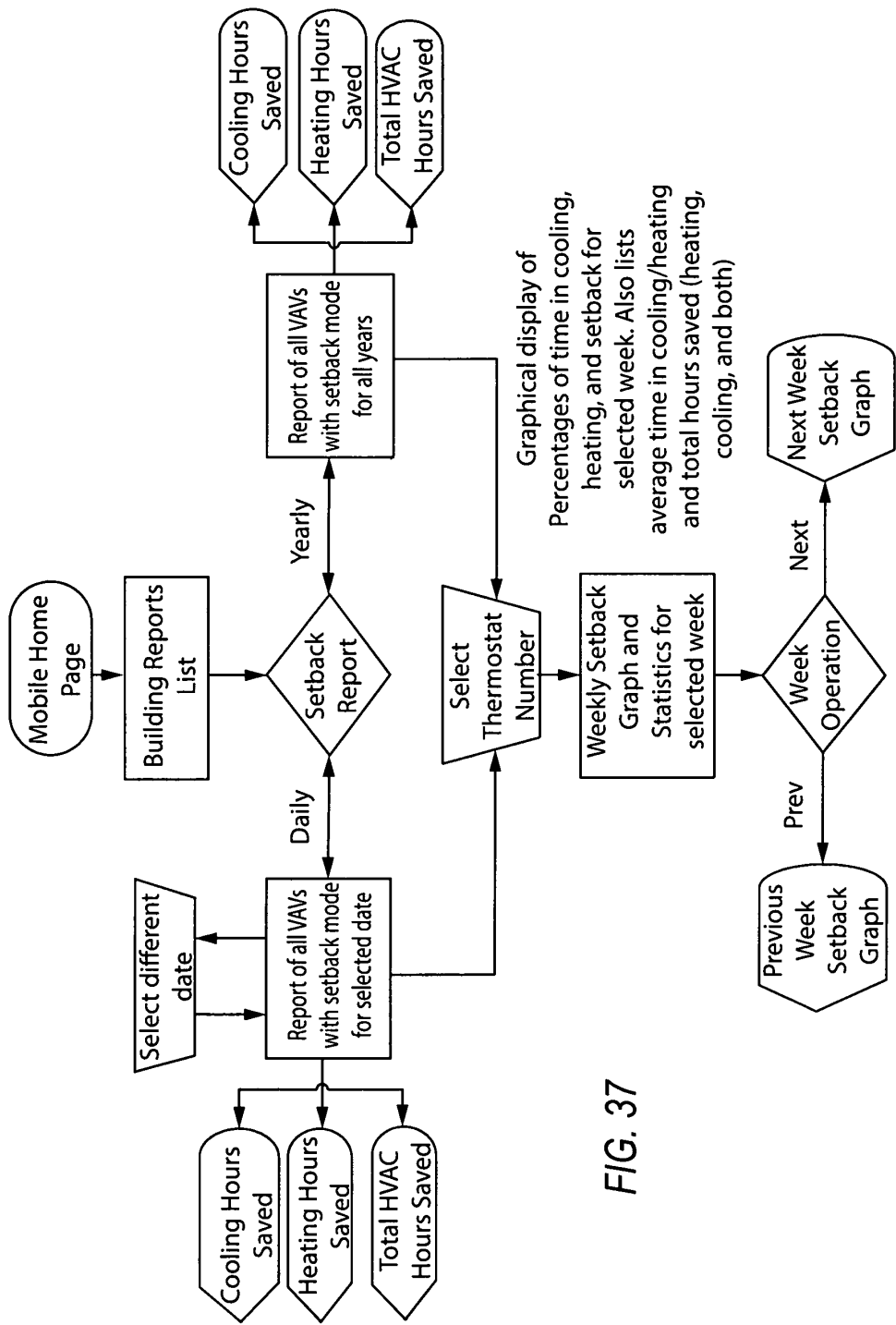


FIG. 37

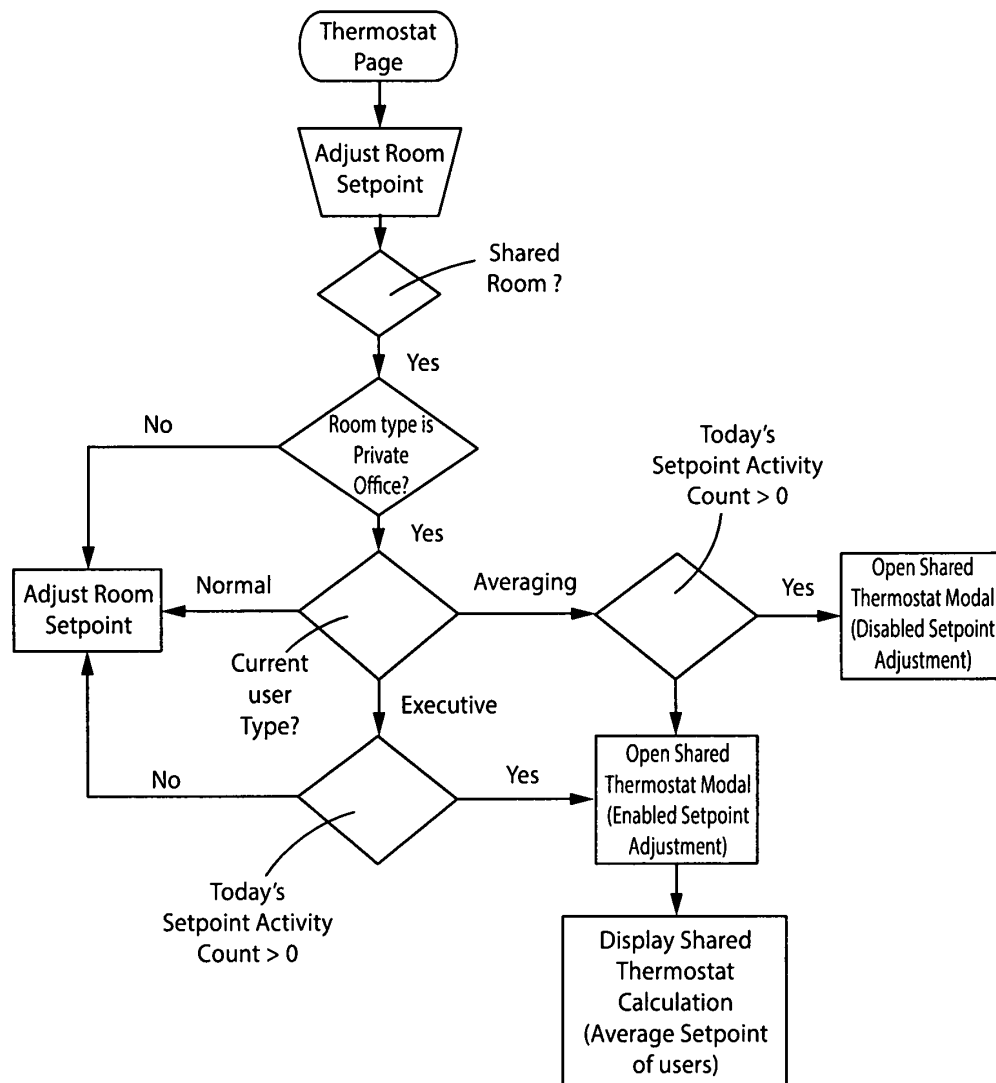
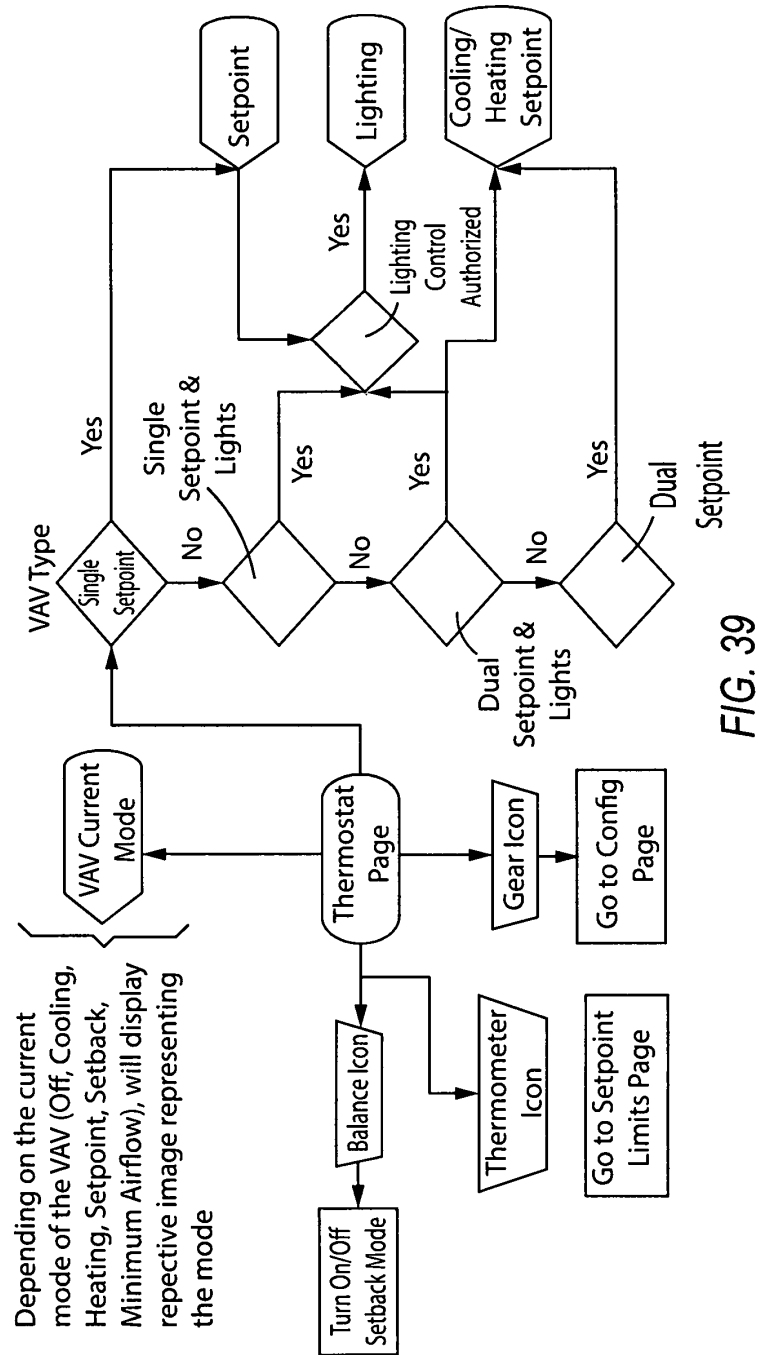


FIG. 38



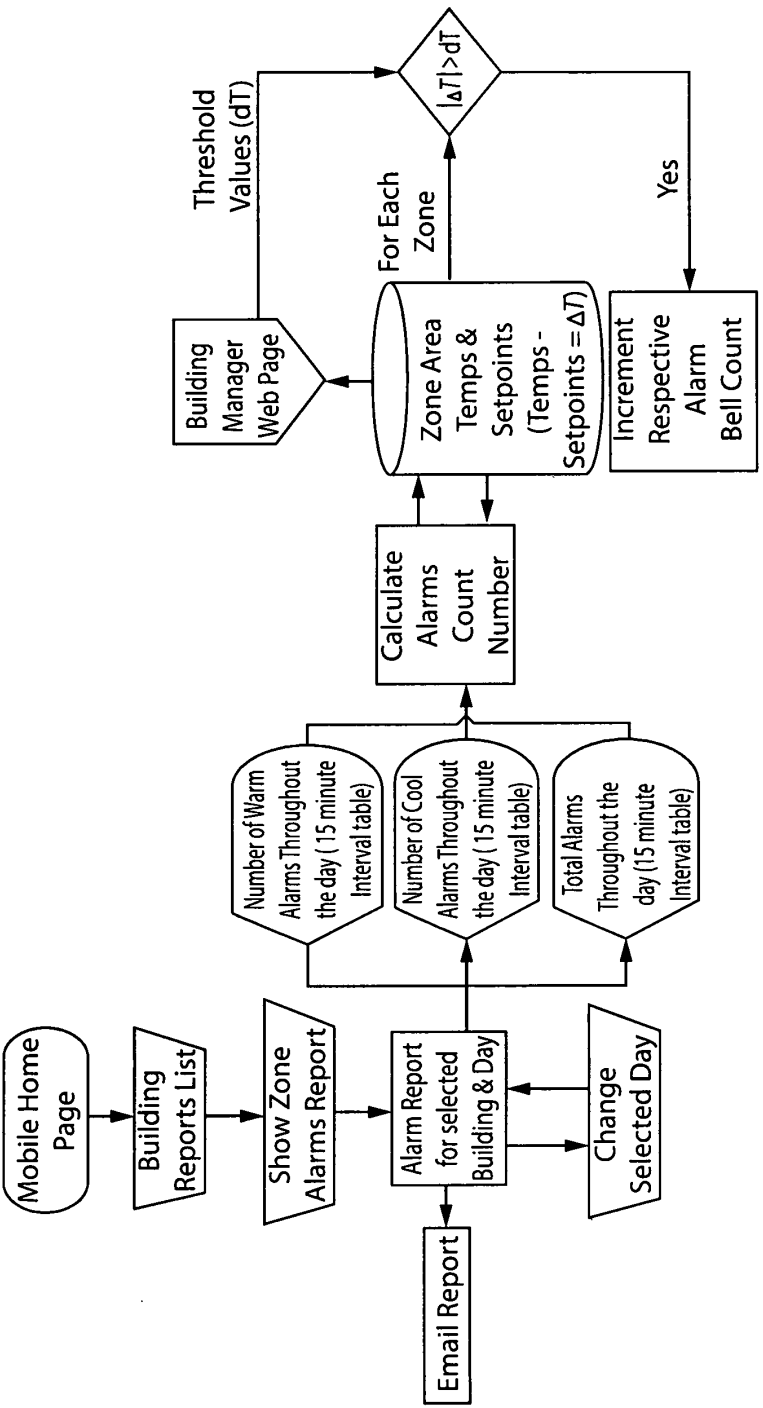


FIG. 40