



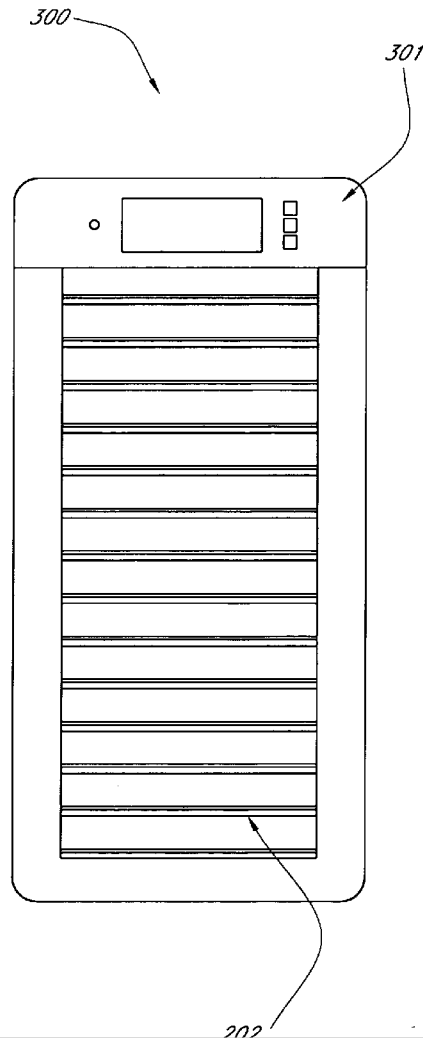
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(19) **United States**(12) **Patent Application Publication**
Kates(10) **Pub. No.: US 2006/0071089 A1**(43) **Pub. Date: Apr. 6, 2006**(54) **ZONE THERMOSTAT FOR ZONE HEATING
AND COOLING**(52) **U.S. Cl. 236/94; 454/256**(76) **Inventor: Lawrence Kates, Corona Del Mar, CA
(US)**(57) **ABSTRACT**

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IRVINE, CA 92614 (US)**(21) **Appl. No.: 10/959,494**(22) **Filed: Oct. 6, 2004****Publication Classification**(51) **Int. Cl.**
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A zone thermostat for use in connection with an Electronically-Controlled Register vent (ECRV) that can be easily installed by a homeowner or general handyman is disclosed. The ECRV can be used to convert a non-zoned HVAC system into a zoned system. The ECRV can also be used in connection with a conventional zoned HVAC system to provide additional control and additional zones not provided by the conventional zoned HVAC system. In one embodiment, the ECRV is configured have a size and form-factor that conforms to a standard manually-controlled register vent. In one embodiment, the zone thermostat is configured to provide thermostat information to the ECRV. In one embodiment, the zone thermostat communicates with a central monitoring system that coordinates operation of the heating and cooling zones.

**Emerson Exhibit 1029**

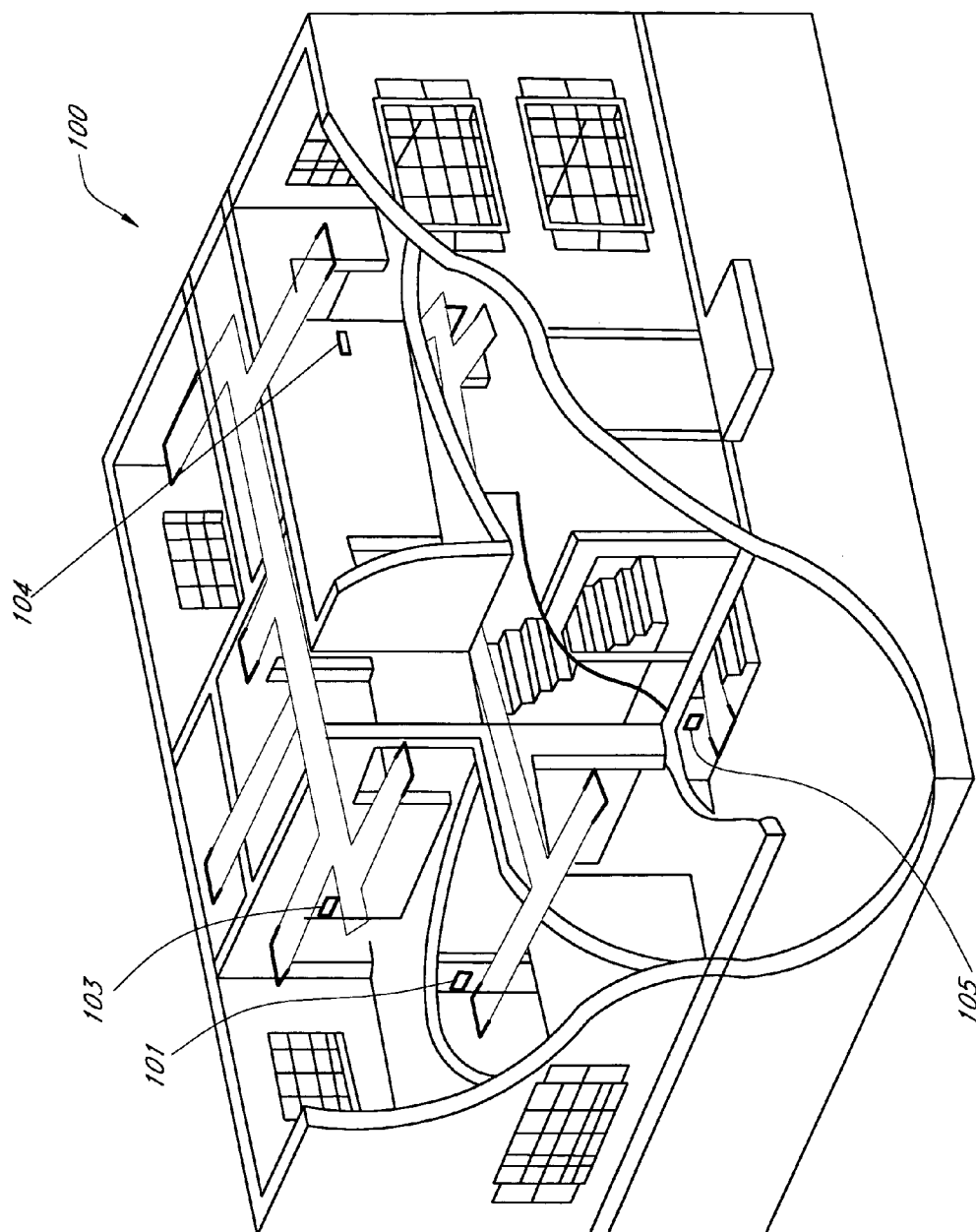


FIG. 1

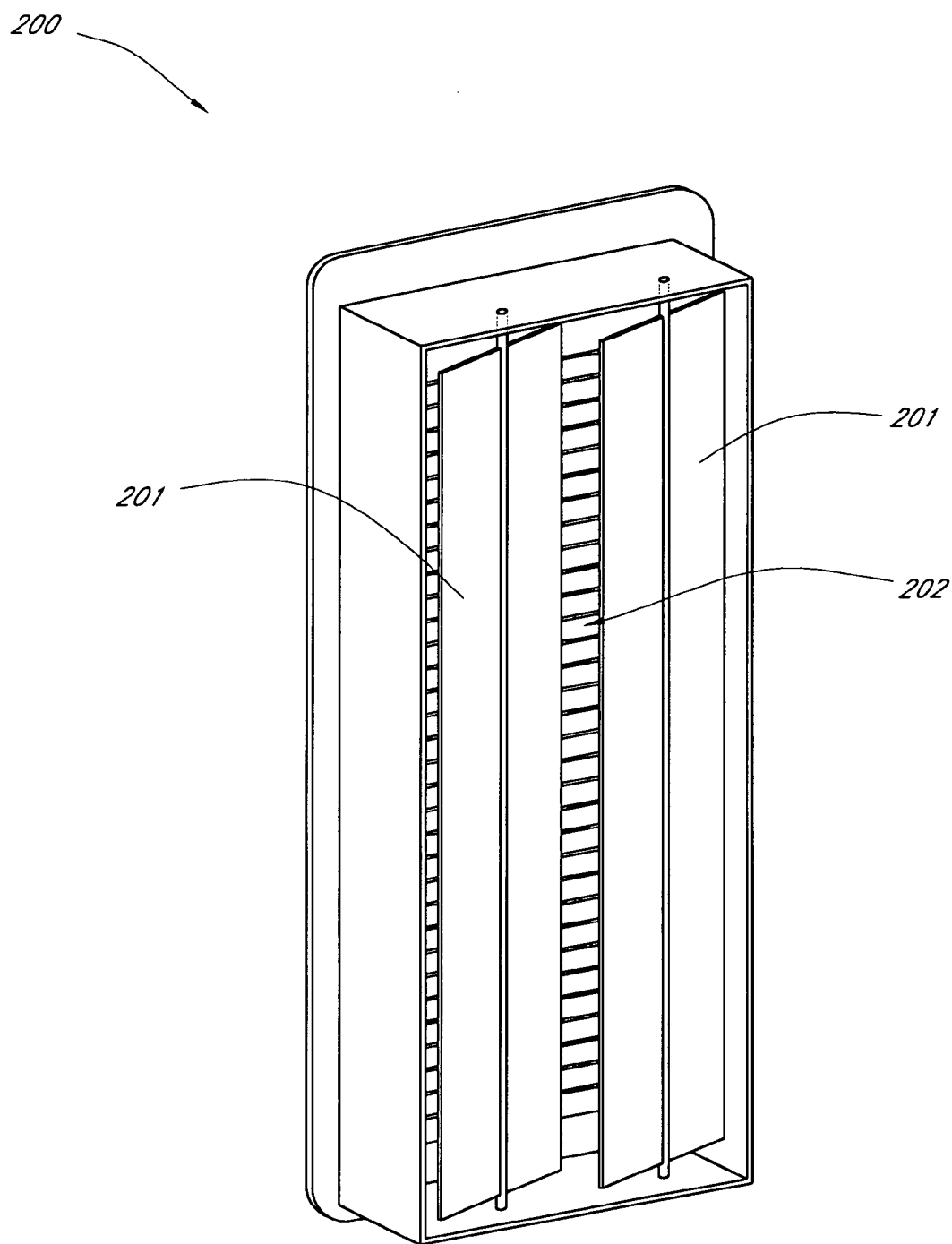


FIG. 2 (PRIOR ART)

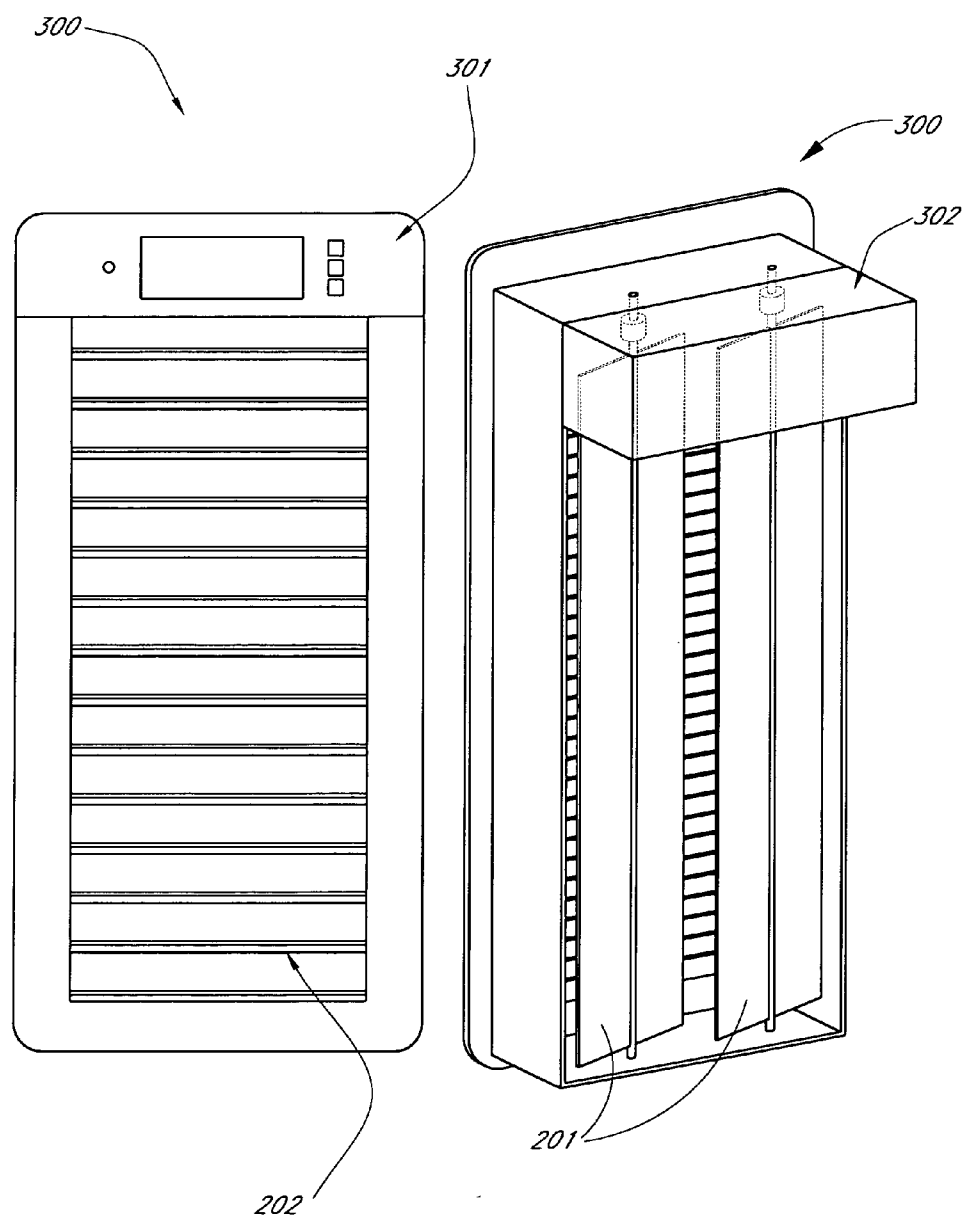
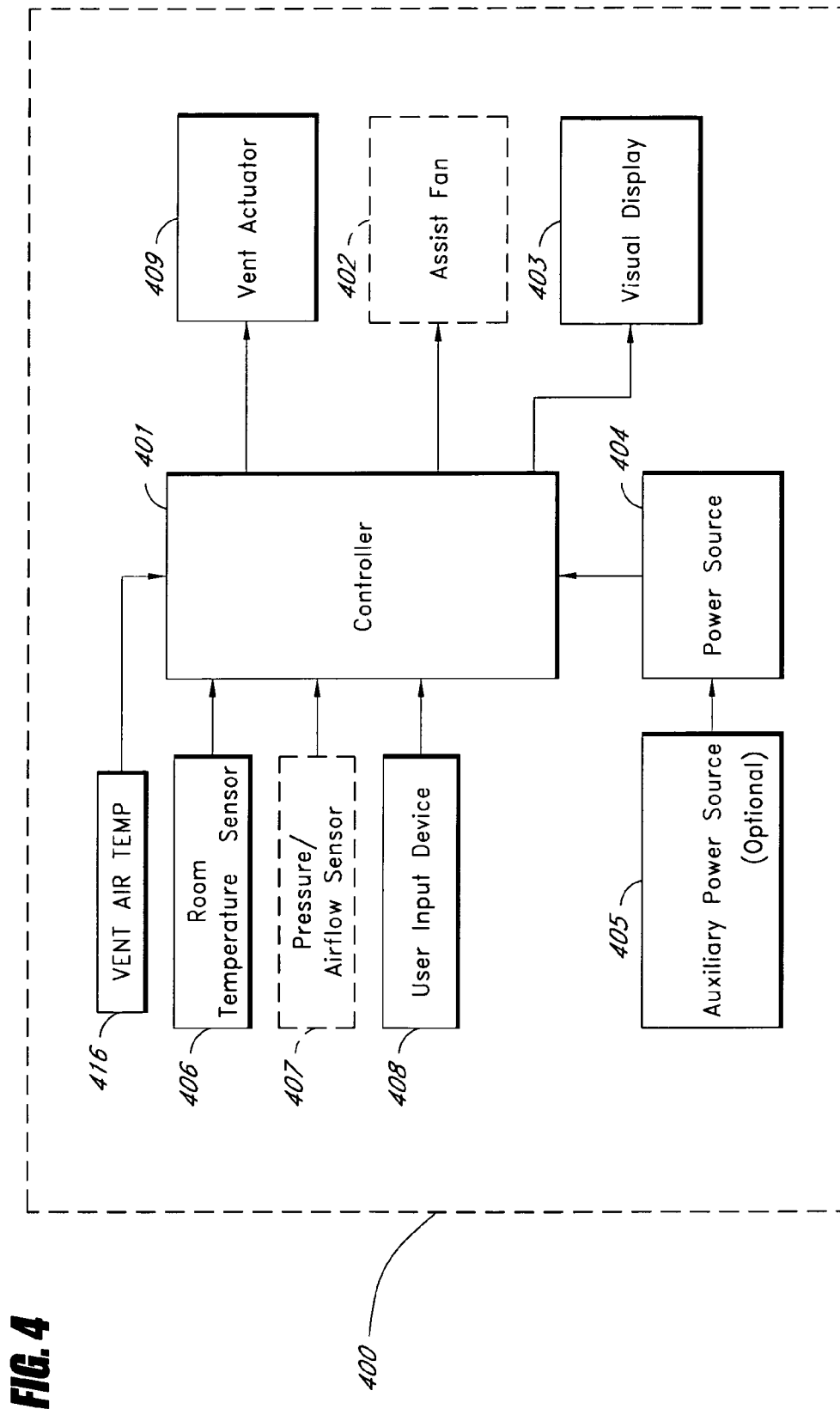


FIG. 3A

FIG. 3B



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