

## (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2006/0071089 A1 Kates

Apr. 6, 2006 (43) **Pub. Date:** 

#### (54) ZONE THERMOSTAT FOR ZONE HEATING AND COOLING

(76) Inventor: Lawrence Kates, Corona Del Mar, CA (US)

**ABSTRACT** (57)

Correspondence Address:

KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR **IRVINE, CA 92614 (US)** 

(21) Appl. No.: 10/959,494

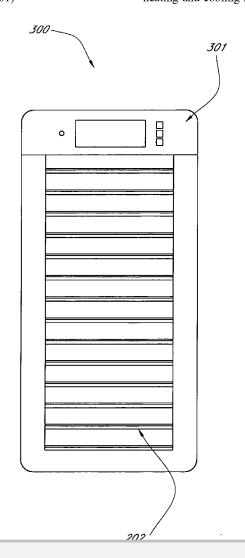
(22) Filed: Oct. 6, 2004

#### **Publication Classification**

(51) Int. Cl.

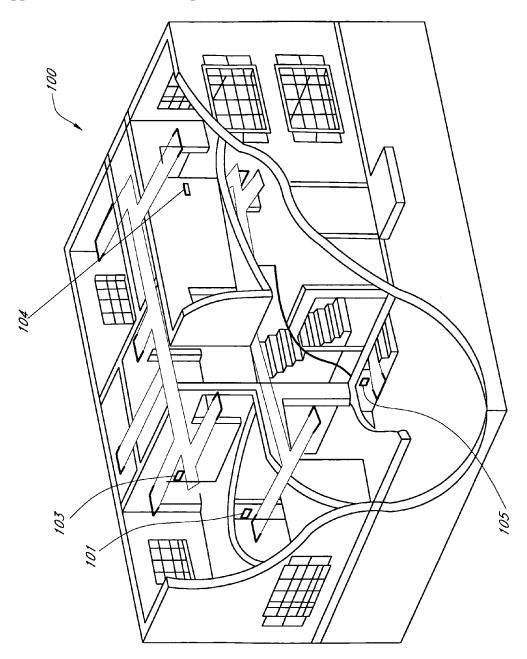
G05D 23/00 (2006.01)(2006.01)F24F11/00 F24F 13/06 (2006.01)

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









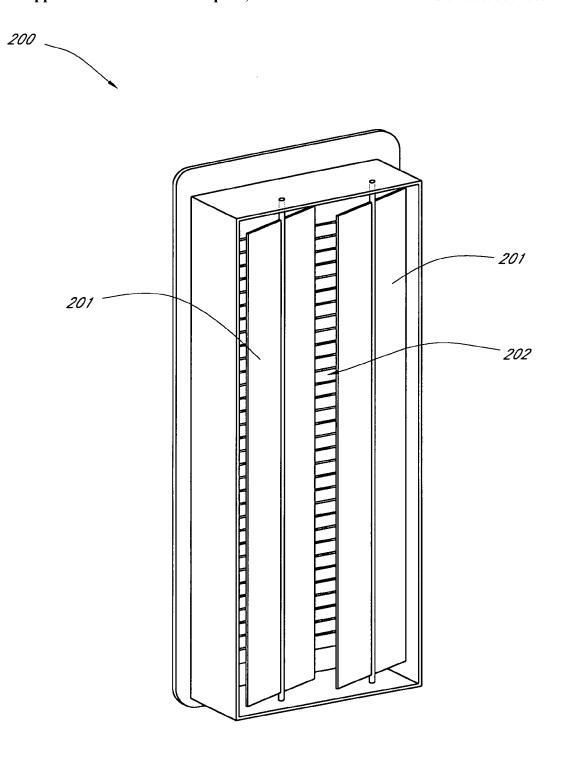


FIG. 2 PRICELETT

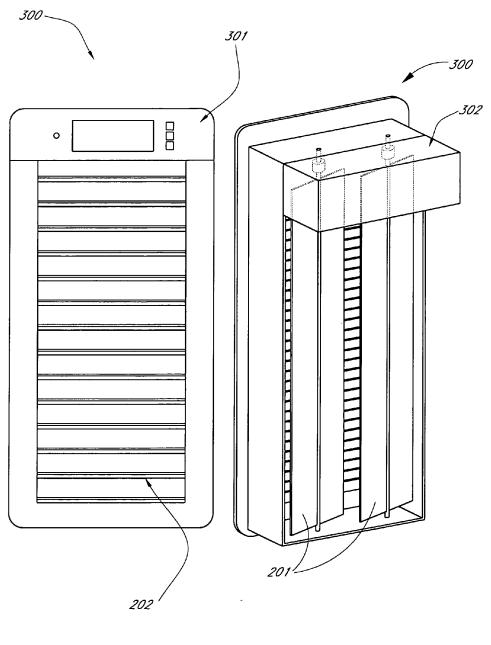
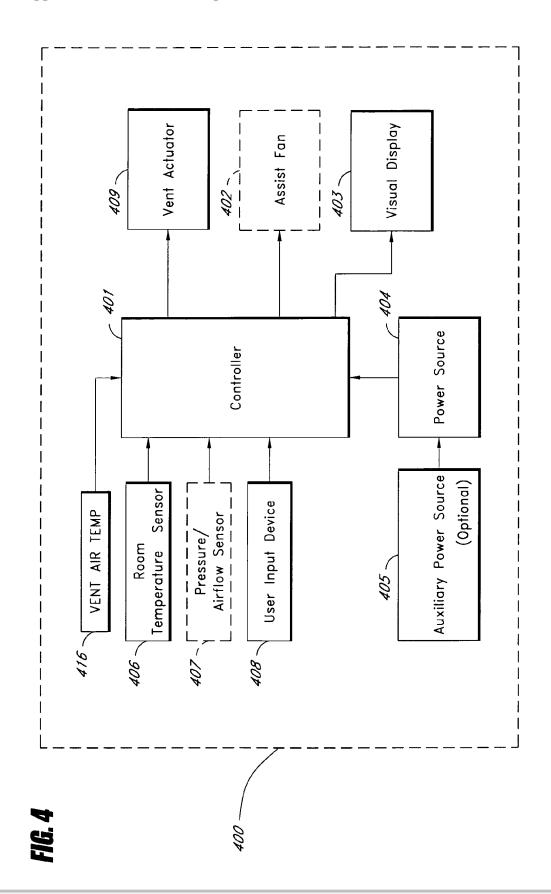


FIG. 3A

FIG. 3B





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