

Title (en)  
Temperature control systems

Title (de)  
Temperaturkontrollsysteme

Title (fr)  
Systèmes de contrôle de la température

Publication  
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Application  
**EP 12150133 A 20120104**

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Abstract (en)  
We describe systems and methods for controlling the internal temperature of cooling apparatus without using a temperature sensor inside the cooled zone. In one embodiment a refrigerator comprises: a thermally insulated cooled zone with a door to enable user access; a cooling system to cool the cooled zone; a control unit coupled to control the cooling system; and a temperature sensor coupled to the control unit. The temperature sensor is outside the cooled zone to sense an ambient temperature of the refrigerator and stores apparatus characterising data characterising a relationship between a pattern of operation of the cooling system and a temperature of the cooled zone for a plurality of different ambient temperatures. The control unit controls the pattern of operation of the cooling system responsive to the sensed ambient temperature and stored apparatus characterising data to adjust the temperature of the cooled zone towards a target temperature.

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