

Title (en)  
Temperature switch.

Title (de)  
Temperaturschalter.

Title (fr)  
Interrupteur thermique.

Publication  
**EP 0416335 B1 19950712 (DE)**

Application  
**EP 90115626 A 19900816**

Priority  
DE 3929965 A 19890908

Abstract (en)  
[origin: JPH03205725A] PURPOSE: To make switching amplitude larger and preheating period longer, in a temperature switch for a radiant heating means having a sensor tube enclosed by an electrically insulating outside tube by providing the outside tube with a ceramic material absorbing and reflecting the radiation from a radiation source. CONSTITUTION: In a temperature switch for a radiant heating means 11 having a sensor tube 43 enclosed by an electrically insulating outside tube 45, the outside tube 45 has a ceramic material at least substantially absorbing and/or reflecting the radiation from radiation sources 18, 20. On one end of the tube 45 of steatite, a heater and a glass ceramic plate are electrically insulated, and on the other end, reflection, absorption and radiation by a heat medium are shielded. A temporary response delay and a large switching hysteresis are imparted to a sensor 27. Thus, the thermal inertia in the outside tube is increased to increase the response delay, and this increase in thermal inertia is effective to precisely hold a set temperature.

IPC 1-7  
**H05B 3/74**; H05B 1/02; F24C 15/10; H01H 37/48

IPC 8 full level  
**F24C 15/10** (2006.01); **H01H 37/48** (2006.01); **H05B 1/02** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP US)  
**F24C 15/105** (2013.01 - EP US); **H01H 37/48** (2013.01 - EP US); **H05B 1/0216** (2013.01 - EP US); **H05B 3/742** (2013.01 - EP US);  
**H01H 2037/326** (2013.01 - EP US)

Citation (examination)  
DE 2500586 B

Cited by  
GB2333430A; GB2333430B; DE102004023787A1; DE102004023787B4; DE102004023787C5; EP0544244A3; US5420398A; TR26583A; EP1791395A2

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DOCDB simple family (publication)  
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