

Title (en)

Thermostat with probe having a SMA spring in its socket

Title (de)

Thermostat mit Sonde versehen mit einer Feder aus Formgedächtnislegierung im Sockel

Title (fr)

Thermostat à sonde comportant dans le socle un ressort en alliage à mémoire de forme

Publication

**EP 0749141 A1 19961218 (FR)**

Application

**EP 96420191 A 19960603**

Priority

FR 9507169 A 19950612

Abstract (en)

The thermostat (1) includes a plastic base (2) and a metal probe (3). Two contacts (2a,b) fixed on the base connect the thermostat in series with the power supply of an immersion electrical heater (4). Conductor blades link each of the two contacts to a safety breaker. The probe includes a metal tube (3a) housing a rod (3b) cooperating with an adjustment device (5). A lid (6) covers the thermostat. The base is provided with a recess (2k) which houses a spring (7) made of a shape memory alloy. A cylindrical hole (2l) is provided in the base to receive a reset finger (8) which is made of an insulating material.

Abstract (fr)

Le thermostat à sonde comprend à proximité immédiate de la sonde (3) un ressort (7) réalisé en alliage à mémoire de forme qui commande un rupteur de sécurité (2d) disposé sur l'une des phases d'alimentation de la résistance de chauffage de façon à suivre l'évolution de la température de l'eau avec un gradient thermique minimal. <IMAGE>

IPC 1-7

**H01H 37/00**

IPC 8 full level

**H01H 37/00** (2006.01); **H01H 37/32** (2006.01); **H01H 37/48** (2006.01)

CPC (source: EP)

**H01H 37/002** (2013.01); **H01H 37/323** (2013.01); **H01H 37/48** (2013.01); **H01H 2061/0115** (2013.01)

Citation (search report)

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