

Title (en)  
Improved low cost thermostat apparatus and method for calibrating same

Title (de)  
Niedrigpreisthermostat und Verfahren zu seiner Kalibrierung

Title (fr)  
Thermostat à prix bas et son procédé d'étallonnage

Publication  
**EP 0866482 B1 20000726 (EN)**

Application  
**EP 98301923 A 19980313**

Priority  
US 4082197 P 19970318

Abstract (en)  
[origin: EP0866482A1] A low cost thermostatic switch (10) has first and second scoop shaped terminal members (12, 14) having flanges (12e, 14e) received on ledges (20f) formed on opposed sidewalls (20e) of a housing (20). The terminal members are spaced apart with the distal end portions (20g) of the sidewalls of the housing bent over to clamp the terminal members to the housing with a strip (16) of electrical insulation placed therebetween. A movable contact arm (22, 22', 22'') is cantilever mounted on the bottom wall (14a) of one terminal member (14) movable into and out of electrical engagement with a stationary contact (26) mounted on the bottom wall (12a) of the other terminal member. A motion transfer pin member (28) is adjustably mounted on the movable contact arm and extends downwardly toward a thermostatic snap-acting disc (30) received on a disc seat (20b) formed on the bottom wall (20a) of the housing with the disc adapted to transfer motion through the motion transfer pin member (28) to move the movable contact arm out of electrical engagement with the stationary contact (26) in one of the two oppositely dished configurations of the disc. A spring 32 is mounted in the housing (20) in a modified thermostatic switch (10') to maintain snap-acting disc on the disc seat (20b) regardless of the orientation of the switch. The switch is calibrated by adjusting the position of the motion transfer pin relative to a reference level to be within a selected gap and then deforming the sidewalls of the housing until the movable contact moves out of electrical engagement with the stationary contact (26). <IMAGE>

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