

Title (en)

THERMALLY CONTROLLED ELECTRICAL SWITCH ELEMENT, IN PARTICULAR A THERMOSTAT OR TEMPERATURE LIMITER

Publication

EP 0201002 A3 19890614 (DE)

Application

EP 86105697 A 19860424

Priority

- DE 3516041 A 19850504
- DE 3525093 A 19850713

Abstract (en)

[origin: US4703301A] A thermally controlled electrical switching element which is in the form of a temperature regulator or a temperature limiter. On a socket are arranged, in parallel orientation, a bimetallic spring plate, and a steel plate deflectable to both sides. The bimetallic spring plate is attached at its periphery in such a way that centrally, above a transition temperature, it can deflect in a first direction, and below a reverse transition temperature, it can deflect in a second, opposite direction. The steel plate attached at the rim together with the bimetallic spring plate, upon deflection of the spring plate, is also displaced in the first direction, and thereby, by means of a control element bearing upon its center, opens a switch contact interrupting the current flow to an electrical heating element. In order to enable manual opening and closing of the switch contact pair within the switching element, in a simple manner, a control arm is placed in the rim area of the steel plate, whose control end is rigidly attached to the rim area of the steel plate, and whose actuating end either constitutes a manually operable push button, or is connected to such a push button.

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H01H 37/54

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [A] DE 2544201 A1 19770407 - INTER CONTROL KOEHLER HERMANN
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Designated contracting state (EPC)

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EP 0201002 A2 19861112; **EP 0201002 A3 19890614**; **EP 0201002 B1 19910807**; CA 1257895 A 19890725; DE 3680702 D1 19910912; US 4703301 A 19871027

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