

Title (en)

Switching system for the overtemperature protection of a glass ceramic plate of a cooktop

Title (de)

Schaltungssystem für den Übertemperaturschutz der Glaskeramikplatte eines Kochfeldes

Title (fr)

Système de commutation pour une protection contre le suréchauffement d'une plaque vitro-céramique d'une aire de cuisson

Publication

EP 0786923 A3 19980107 (DE)

Application

EP 96103542 A 19960307

Priority

DE 19602649 A 19960126

Abstract (en)

[origin: EP0786923A2] The system involves a hotplate heated by an electric element (1) in a single-, two- or three-phase power network (2) with a triac (7) switched on by a phototransistor (10) at the interface (4) between power supply and control circuits. Temperature is measured by a resistive track (5) and a pair of electrodes (6) on the underside of the plate. The controller (3) consists of an active microprocessor (μ p1) and a monitoring microprocessor (μ p2) supplied with power via an isolating transformer (11). At a preset upper limit of temperature it cuts off or reduces the power supply to the heater. Any control failure produces automatic disconnection by drop-out of a relay (K1).

IPC 1-7

H05B 3/74; H05B 1/02

IPC 8 full level

H05B 3/74 (2006.01)

CPC (source: EP)

H05B 3/746 (2013.01); **H05B 2213/04** (2013.01); **H05B 2213/07** (2013.01)

Citation (search report)

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