

Title (en)

Device for regulating and limiting the power of a heating plate of ceramic or similar material.

Title (de)

Vorrichtung zur Leistungssteuerung und -begrenzung bei einer Heizfläche aus Glaskeramik oder einem vergleichbaren Material.

Title (fr)

Dispositif pour la régulation et le limitation de la puissance d'une surface de chauffage en céramique ou un matériau similaire.

Publication

EP 0471171 B1 19950111 (DE)

Application

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Priority

DE 4022846 A 19900718

Abstract (en)

[origin: EP0471171A2] A method is described for regulating and limiting the power of a heating plate made of ceramic or similar material, in particular a glass-ceramic cooking plate. In a heating plate in which the individual heating zones are in each case heated by a plurality of heating elements which can be switched and controlled independently of one another, it is provided according to the invention that the individual heating elements are switched and regulated independently of one another, by means of a plurality of temperature sensors which are independent of one another and are arranged in the region of the heating zone such that all the points of the regions which are significant for one load case, particularly local hotspots, are detected, in such a manner that the power distribution in the heating zone region is largely matched to the locally different heat extraction. This has the advantage that the heating system can be used optimally, while the thermal stress of the heating plate material is, however, reduced. <IMAGE>

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CPC (source: EP US)

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Cited by

DE10307246A1; DE10103299A1; DE10103299B4; EP0711098A1; FR2726634A1; EP0786923A3; EP2983449A1; US7053340B2; WO2022022978A1; WO9424490A1; WO2007124891A1; EP0531987B2

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