

Title (en)

HEATING DEVICE, ESPECIALLY FOR A COOKING PLATE HEATED BY RADIATION, AND ITS MANUFACTURING PROCESS

Publication

EP 0189108 B1 19910710 (DE)

Application

EP 86100466 A 19860115

Priority

DE 3502497 A 19850125

Abstract (en)

[origin: EP0189108A1] A flat bearing coating (7) for the heating coil (5) of a heating device is formed from an inorganic mass with a binding agent and fillers, especially based on silica sol with a fibre additive. The mass for the bearing coating (7) is applied moist onto a substrate or directly onto an insulating coating (2), and the heating coil (5) is pressed into the still moist mass to a depth between a half and a complete wire thickness of the coil wire. In this way, each lower curved section of the heating coil is held individually in the hardening (and, if required, ceramising) material of the bearing coating. In this manner, any opposing movements of the coil sections, which could lead to a short-circuit, are reliably prevented and, nevertheless, a maximum useful radiation is ensured. The production is simple and allows great flexibility with respect to a step-by-step prefabrication. <IMAGE>

IPC 1-7

H05B 3/74

IPC 8 full level

H05B 3/68 (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP)

H05B 3/688 (2013.01); **H05B 3/748** (2013.01); **H05B 2203/017** (2013.01)

Citation (examination)

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- EP 0031514 A1 19810708 - EGO ELEKTRO BLANC & FISCHER [DE]
- EP 0041203 A1 19811209 - GRUENZWEIG HARTMANN GLASFASER [DE]
- DE 2729930 A1 19790111 - FISCHER KARL

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GB2324693A; EP0475285A3; EP0644707A1; US5532458A

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