

Title (en)

RADIANT ELECTRIC HEATING ELEMENT AND METHOD OF MANUFACTURING THE SAME

Publication

EP 0071048 B1 19850123 (DE)

Application

EP 82106019 A 19820706

Priority

DE 3129239 A 19810724

Abstract (en)

[origin: ES274609U] An electrical heating element (18) for heating a plate, e.g. a glass ceramic plate (14) has a multilayer insulating support (12) in whose dish-shaped depression heater coils (18) are arranged in spiral form. The heater coils are located on the insulating support surface (17) and have downwardly directed deformations (19) comprising a turn pressed out in the downwards direction. These deformations (19) are embedded in the surface layer (16) of the insulating support, which is mechanically stronger and more thermally conductive than the underlying insulating layer (15). The deformations are produced in a mould (22, 23) carrying the heater coils in slots (21) and by means of a bladelike punch (24) a turn is pressed into a depression (25). The connection between heater coil (18) and insulating support (12) during the moulding thereof comprises a loose insulating material, the heater coil and deformations being placed in slots (27) of mould part (26).

IPC 1-7

F24C 15/10; H05B 3/68

IPC 8 full level

H05B 3/76 (2006.01); **F24C 15/10** (2006.01); **H05B 3/06** (2006.01); **H05B 3/68** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP US)

H05B 3/748 (2013.01 - EP US); **H05B 2203/017** (2013.01 - EP US)

Cited by

EP0625865A3; US5477605A; EP0210575A1; EP0234373A3; EP0355388A1; US5048176A; US5196678A; EP0189108B1

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0071048 A1 19830209; EP 0071048 B1 19850123; AT E11449 T1 19850215; AU 557733 B2 19870108; AU 8621582 A 19830127; DE 3129239 A1 19830210; DE 3262043 D1 19850307; ES 274609 U 19840516; ES 274609 Y 19850101; FI 75465 B 19880229; FI 75465 C 19880609; FI 822565 A0 19820720; FI 822565 L 19830125; GR 76857 B 19840904; JP H0449231 B2 19920810; JP S5826485 A 19830216; NO 154679 B 19860818; NO 154679 C 19861126; NO 822532 L 19830125; US 4471214 A 19840911; YU 158082 A 19850320; YU 43961 B 19891231; ZA 825038 B 19830427

DOCDB simple family (application)

EP 82106019 A 19820706; AT 82106019 T 19820706; AU 8621582 A 19820720; DE 3129239 A 19810724; DE 3262043 T 19820706; ES 274609 U 19820723; FI 822565 A 19820720; GR 820168794 A 19820719; JP 12776982 A 19820723; NO 822532 A 19820722; US 39855682 A 19820715; YU 158082 A 19820720; ZA 825038 A 19820715