

Title (en)

ELECTRIC HEATING RADIATOR, AND PROCESS AND APPARATUS FOR ITS MANUFACTURE

Publication

**EP 0031514 B1 19850612 (DE)**

Application

**EP 80107754 A 19801209**

Priority

DE 2950302 A 19791214

Abstract (en)

[origin: ES254990U] A method for the manufacture of a radiant electrical heater, intended more particularly for heating glass ceramic hotplates, comprises so inserting or pressing helical heating resistors in helical slots in a support, such that the support or the heater coils themselves are deformed and consequently fixed to the support. The coils penetrate the wall or bottom areas of the slot or are otherwise secured by parts of the support by positive engagement. An apparatus for performing the method has a tool with ribs which deforms the support or heater coils for positive engagement. A radiant heater is obtained, whose support has partly overlapping deformations in the slot area of the heater coils.

IPC 1-7

**H05B 3/74**

IPC 8 full level

**H05B 3/84** (2006.01); **H05B 3/18** (2006.01); **H05B 3/20** (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); **Y10T 29/49083** (2015.01 - EP US); **Y10T 29/4913** (2015.01 - EP US); **Y10T 29/49135** (2015.01 - EP US); **Y10T 29/49151** (2015.01 - EP US); **Y10T 29/49915** (2015.01 - EP US); **Y10T 29/49938** (2015.01 - EP US)

Citation (examination)

- BE 464026 A
- DE 2729930 A1 19790111 - FISCHER KARL
- DE 2820114 A1 19791115 - FISCHER KARL
- FR 2123536 A1 19720908 - SMITHS INDUSTRIES LTD
- US 3221396 A 19651207 - BREMER ROBERT D, et al

Cited by

EP0210575A1; EP2056649A3; EP0189108B1

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

**EP 0031514 A1 19810708; EP 0031514 B1 19850612**; AT E13793 T1 19850615; AU 539828 B2 19841018; AU 6540080 A 19810618; DE 2950302 A1 19810619; DE 3070761 D1 19850718; ES 254990 U 19810901; ES 254990 Y 19820501; ES 497675 A0 19820201; ES 8202666 A1 19820201; GR 71640 B 19830620; JP H0328031 B2 19910417; JP S5693283 A 19810728; US 4380116 A 19830419; YU 314580 A 19830228; YU 39453 B 19841231; ZA 807784 B 19811230

DOCDB simple family (application)

**EP 80107754 A 19801209**; AT 80107754 T 19801209; AU 6540080 A 19801215; DE 2950302 A 19791214; DE 3070761 T 19801209; ES 254990 U 19801212; ES 497675 A 19801212; GR 800163540 A 19801203; JP 17527280 A 19801213; US 21280280 A 19801204; YU 314580 A 19801212; ZA 807784 A 19801212