

Title (en)
Radiant heating element

Title (de)
Strahlheizkörper

Title (fr)
Corps de chauffage à rayonnement

Publication
EP 0250880 B2 19970423 (DE)

Application
EP 87107772 A 19870528

Priority
DE 3622415 A 19860703

Abstract (en)
[origin: US4810857A] In a radiant heater unit (1) for heating through a hotplate (2), the periphery of the heating field is formed by an initial cooking marginal heating system (9), which is e.g. operated by a short-circuit connection (19), so that it passes much more rapidly from the cold state into the visible glowing state and also in the marginal region use is made of the faster heat transfer there to the bottom (3) of the cooking utensil. The increased radiant power density can also be obtained by other measures, namely by modified insulating conditions in the vicinity of the marginal heating system, by using a PTC resistor in the vicinity of the inner partial power system and similar measures.

IPC 1-7
F24C 15/10; H05B 3/74; H05B 6/06

IPC 8 full level
H05B 3/76 (2006.01); **F24C 15/10** (2006.01); **H05B 3/00** (2006.01); **H05B 3/74** (2006.01); **H05B 6/06** (2006.01)

CPC (source: EP US)
H05B 3/746 (2013.01 - EP US); **H05B 3/748** (2013.01 - EP US); **H05B 2213/04** (2013.01 - EP US); **H05B 2213/07** (2013.01 - EP US)

Cited by
EP0337147A3; DE3908599A1; DE102006022571A1; WO2007131852A1

Designated contracting state (EPC)
AT CH DE ES FR GB GR LI SE

DOCDB simple family (publication)
EP 0250880 A2 19880107; **EP 0250880 A3 19890208**; **EP 0250880 B1 19911113**; **EP 0250880 B2 19970423**; AT E69495 T1 19911115; AU 596673 B2 19900510; AU 7520687 A 19880107; DE 3622415 A1 19880107; DE 3774497 D1 19911219; ES 2027255 T3 19920601; JP S6366891 A 19880325; US 4810857 A 19890307; YU 107487 A 19891231

DOCDB simple family (application)
EP 87107772 A 19870528; AT 87107772 T 19870528; AU 7520687 A 19870703; DE 3622415 A 19860703; DE 3774497 T 19870528; ES 87107772 T 19870528; JP 16141587 A 19870630; US 6294987 A 19870616; YU 107487 A 19870610