

Title (en)
Thickfilm heating tube

Title (de)
Dickschicht-Rohr-Heizung

Title (fr)
Chauffage tubulaire à couche épaisse

Publication
EP 1672958 B1 20111116 (DE)

Application
EP 05027516 A 20051215

Priority
DE 102004060382 A 20041215

Abstract (en)
[origin: EP1672958A2] Electrical heating device has heat conductive layer for converting electrical energy into heat and is located on surface of base plate within heating range in form of structured resistance heating conducting layer in connection area. In between the base plate and heat conducting layer, dielectric layer (710) is arranged. The resistance coating electrically isolates the heating conductor path with opposite dielectric layer. The heating device in the heating range is coated in such a manner that the open pores in heat conducting layer and opposite dielectric layer are sealed. The surface of heating device in the heating area opposite the medium possess anti-adhesive coating. An independent claim is also included for the method for producing heating device.

IPC 8 full level
H05B 3/06 (2006.01); **H05B 3/44** (2006.01)

CPC (source: EP)
H05B 3/46 (2013.01); **H05B 3/82** (2013.01); **H05B 2203/013** (2013.01); **H05B 2203/017** (2013.01)

Cited by
US2016201928A1; CN113905467A; CN109312931A; ITUA20162359A1; DE102008049215A1; DE102014206592A1; WO2015025022A1; WO2015026304A1; WO2017174712A1; WO2020165080A1; WO2008011507A1; WO2015150188A1; KR101005733B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1672958 A2 20060621; **EP 1672958 A3 20080423**; **EP 1672958 B1 20111116**; AT E534266 T1 20111215; DE 102004060382 A1 20060629

DOCDB simple family (application)
EP 05027516 A 20051215; AT 05027516 T 20051215; DE 102004060382 A 20041215