

Title (en)
PTC heating device

Title (de)
PTC-Heizkörper

Title (fr)
Élément chauffant à PTC

Publication
EP 0521181 B1 19960228 (DE)

Application
EP 91111056 A 19910703

Priority
EP 91111056 A 19910703

Abstract (en)
[origin: EP0521181A1] PTC heating element having an insulating frame (1), at least two electrode plates (4, 4a), which are arranged on both sides of the insulating frame and are firmly connected to the insulating frame in each case at at least two points, and at least one PTC element (3), which is inserted into a perforation (2) in the insulating frame (1), is located between the two electrode plates and is in contact therewith, the attachment of each electrode plate (4, 4a) being achieved at a specific point on the insulating frame (1), in each case by means of a plug connection (5) which is constructed integrally on the insulating frame and the electrode plate. <IMAGE>

IPC 1-7
H05B 3/14

IPC 8 full level
H05B 3/14 (2006.01)

CPC (source: EP)
H01C 1/1406 (2013.01); **H01C 1/144** (2013.01); **H01C 7/02** (2013.01); **H05B 3/14** (2013.01)

Cited by
EP4092692A1; CN108151290A; EP1033065A4; DE20121116U1; EP1061776A1; US8229289B2; US6472645B1; DE102021112839B3

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0521181 A1 19930107; EP 0521181 B1 19960228; DE 59107483 D1 19960404; ES 2086434 T3 19960701

DOCDB simple family (application)
EP 91111056 A 19910703; DE 59107483 T 19910703; ES 91111056 T 19910703