

Title (en)  
Electrical heating cartridge

Title (de)  
Elektrische Heizpatrone

Title (fr)  
Cartouche chauffante électrique

Publication  
**EP 1523224 B2 20091111 (DE)**

Application  
**EP 03020876 A 20030915**

Priority  
EP 03020876 A 20030915

Abstract (en)  
[origin: EP1523224A1] An electric heating cartridge (1), especially for heating liquids and/or gaseous media, comprises at least one positive temperature coefficient element (10), two electrodes (9), and an insulating element (8) that electrically insulates a housing (2). The insulating element consists of a polyimide film. The cartridge has at least two heat conducting members.

IPC 8 full level  
**H05B 3/42** (2006.01); **H05B 3/44** (2006.01); **H05B 3/48** (2006.01)

CPC (source: EP)  
**H05B 3/42** (2013.01); **H05B 3/44** (2013.01); **H05B 3/48** (2013.01); **H05B 2203/02** (2013.01)

Cited by  
DE102010006184A1; US11118810B2; US8541722B2; DE102010063939A1; CN111265244A; US2021354530A1

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

DOCDB simple family (publication)  
**EP 1523224 A1 20050413; EP 1523224 B1 20060215; EP 1523224 B2 20091111**; AT E318065 T1 20060315; DE 50302406 D1 20060420

DOCDB simple family (application)  
**EP 03020876 A 20030915**; AT 03020876 T 20030915; DE 50302406 T 20030915