

Title (en)

Heating element and heating device containing a heating element

Title (de)

Wärmeerzeugendes Element und Heizvorrichtung umfassend ein wärmeerzeugendes Element

Title (fr)

Élément produisant de la chaleur et dispositif de chauffage comprenant un élément produisant de la chaleur

Publication

EP 2109345 B1 20100728 (DE)

Application

EP 08010213 A 20080604

Priority

DE 102008018617 A 20080411

Abstract (en)

[origin: EP2109345A1] The element has a positive temperature coefficient (PTC) heating element (5) and elongate U-shaped insulating housings (2, 3) surrounding the PTC heating element. Electric conductor tracks (10) are in contact with the PTC heating element on opposing sides (1). Outer surfaces of each of the electric conductors are covered by an insulating layer (7) that has two interconnected plastic sheets, and the insulating layers are fixedly connected to the housing. The plastic sheets are connected to one another and enclose a knitted fiber fabric. An independent claim is also included for a heating device for heating air.

IPC 8 full level

H05B 3/50 (2006.01); **B60H 1/22** (2006.01); **F24H 3/04** (2006.01)

CPC (source: EP US)

F24H 3/0405 (2013.01 - EP US); **F24H 3/0429** (2013.01 - EP US); **F24H 9/1863** (2013.01 - EP US); **F24H 9/1872** (2013.01 - EP US); **H05B 3/50** (2013.01 - EP US); **H05B 2203/02** (2013.01 - EP US); **H05B 2203/023** (2013.01 - EP US)

Cited by

EP3101999A1; EP2393336A1; EP2337425A1; EP3101998A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 2109345 A1 20091014; **EP 2109345 B1 20100728**; CN 101557659 A 20091014; CN 101557659 B 20111123; DE 502008001033 D1 20100909; ES 2345574 T3 20100927; JP 2009259823 A 20091105; JP 5134579 B2 20130130; US 2009255914 A1 20091015; US 8395087 B2 20130312

DOCDB simple family (application)

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