

Title (en)

Heating element of an electric heating device

Title (de)

Wärmeerzeugendes Element einer elektrischen Heizvorrichtung

Title (fr)

Élément d'un dispositif de chauffage produisant de la chaleur électrique

Publication

EP 2025541 B1 20130102 (DE)

Application

EP 08015712 A 20070718

Priority

EP 07014118 A 20070718

Abstract (en)

[origin: EP2017103A1] The device has a set of cross-ties (20) extending right angle to layers of a heat outputting unit (12) and a heat producing unit (10), where the cross-ties cover frame openings (16) are provided at a housing (2). Another set of cross-ties (43) extends parallel to the layers, are formed by a heating block (8) and covers the openings. The cross-ties (43) is extend between the cross-ties (20) in such a manner that the cross-ties (20) are fixed between sections of the cross-ties (20) in a form-fit manner, so that the cross-ties (20, 43) form a grid arrangement for reinforcing the housing.

IPC 8 full level

B60H 1/22 (2006.01); **F24H 3/04** (2006.01); **F24H 9/18** (2006.01)

CPC (source: EP KR US)

F24H 3/0405 (2013.01 - EP US); **F24H 3/0429** (2013.01 - EP US); **F24H 3/0435** (2013.01 - EP US); **F24H 3/0441** (2013.01 - EP US); **F24H 3/0447** (2013.01 - EP US); **F24H 3/0464** (2013.01 - EP US); **F24H 3/0476** (2013.01 - EP US); **F24H 9/1863** (2013.01 - EP US); **F24H 9/1872** (2013.01 - EP US); **H05B 3/06** (2013.01 - KR); **H05B 3/14** (2013.01 - KR)

Citation (opposition)

Opponent : MAHLE Behr GmbH & Co. KG

EP 1318694 A1 20030611 - CATEM GMBH & CO KG [DE]

Cited by

EP3667197A1; DE102018220858A1; US11912106B2

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