

Title (en)
Electric heating device

Title (de)
Elektrische Heizeinrichtung

Title (fr)
Appareil de chauffage électrique

Publication
EP 1731340 A1 20061213 (DE)

Application
EP 06011698 A 20060607

Priority
DE 102005026238 A 20050607

Abstract (en)
The device has a frame, where a layer structure from radiator units is provided in the frame. The layer structure is provided between arranged heat producing units (16) that include positive temperature coefficient (PTC)-heating units (18) that are arranged between parallel contact strips (20). A place holder unit (28) is accommodated in the frame and is integrated as a separate component in the layer structure.

IPC 8 full level
B60H 1/22 (2006.01)

CPC (source: EP)
F24H 3/0405 (2013.01); **F24H 3/0429** (2013.01); **F24H 3/0435** (2013.01); **F24H 3/0447** (2013.01); **F24H 3/0464** (2013.01); **F24H 3/0476** (2013.01); **F24H 9/1872** (2013.01); **H05B 3/14** (2013.01); **H05B 3/50** (2013.01); **H05B 2203/02** (2013.01)

Citation (applicant)
• DE 19911547 A1 20000921 - BEHR GMBH & CO [DE]
• EP 1621378 A1 20060201 - BEHR FRANCE ROUFFACH SAS [FR]

Citation (search report)
• [PX] EP 1621378 A1 20060201 - BEHR FRANCE ROUFFACH SAS [FR]
• [X] EP 1457367 A1 20040915 - BEHR GMBH & CO [DE], et al
• [DA] DE 19911547 A1 20000921 - BEHR GMBH & CO [DE]
• [DA] US 5057672 A 19911015 - BOHLENDER FRANZ [DE], et al

Cited by
DE102012011903A1; CN111059765A; CN114600554A; EP3141842A1; FR2954470A1; EP2080650A1; JP2008508132A; DE102012011903B4; EP2268103A1; EP2466222A1; EP2266823A1; DE102012011903C5

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DE ES FR GB IT

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1731340 A1 20061213; **EP 1731340 B1 20090311**; **EP 1731340 B8 20090819**; DE 102005026238 A1 20061214;
DE 502006003060 D1 20090423; ES 2321221 T3 20090603

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EP 06011698 A 20060607; DE 102005026238 A 20050607; DE 502006003060 T 20060607; ES 06011698 T 20060607