

Title (en)
ELECTRIC HEATING DEVICE

Title (de)
ELEKTRISCHE HEIZVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE ÉLECTRIQUE

Publication
EP 3101364 B1 20170830 (DE)

Application
EP 15170331 A 20150602

Priority
EP 15170331 A 20150602

Abstract (en)
[origin: US2016360574A1] An electric heating device including a heater housing in which a partition separates a circulation chamber, through which a medium to be heated can flow, from a connection chamber in which electrical connections of a PTC heating element introduced into a recess of a heating rib projecting from the partition into the circulation chamber are exposed. The PTC heating element has at least one PTC element and strip conductors lying against it at both sides, of which at least one strip conductor is covered by an electrical insulation layer. To create an electric heating device which permits a delivery of heat of the PTC heating element to the environment in an improved way, the heating rib is formed by a heating rib frame which comprises at least one window in which the insulation layer is exposed.

IPC 8 full level
F24H 1/00 (2006.01); **B60H 1/22** (2006.01); **F24H 1/12** (2006.01); **F24H 3/04** (2006.01); **F24H 9/18** (2006.01); **H05B 3/28** (2006.01); **H05B 3/48** (2006.01); **H05K 5/00** (2006.01)

CPC (source: CN EP US)
F24H 1/009 (2013.01 - EP US); **F24H 1/121** (2013.01 - EP US); **F24H 3/0458** (2013.01 - EP US); **F24H 9/1827** (2013.01 - EP US); **H05B 3/04** (2013.01 - EP US); **H05B 3/06** (2013.01 - EP US); **H05B 3/12** (2013.01 - CN); **H05B 3/18** (2013.01 - CN US); **H05B 3/50** (2013.01 - EP US); **F24H 3/0447** (2013.01 - EP US); **F24H 2250/04** (2013.01 - EP US); **H05B 2203/02** (2013.01 - EP US); **H05B 2203/023** (2013.01 - EP US)

Cited by
CN114126118A; DE102022206987A1; DE102017209990A1; US2018160480A1; US11035589B2; CN111901912A; DE102019202045B4; EP3820245A1; CN112788803A; US11395376B2; DE102020208643A1; EP4351273A1; DE102022125637A1

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EP 3101364 A1 20161207; **EP 3101364 B1 20170830**; CN 106231698 A 20161214; CN 106231698 B 20180921; US 10098183 B2 20181009; US 2016360574 A1 20161208

DOCDB simple family (application)
EP 15170331 A 20150602; CN 201610380657 A 20160601; US 201615169833 A 20160601