

Title (en)
Electric heating device

Title (de)
Elektrische Heizvorrichtung

Title (fr)
Dispositif de chauffage électrique

Publication
EP 2199704 A3 20131113 (DE)

Application
EP 09015168 A 20091208

Priority
• DE 102008064569 A 20081219
• DE 102009013927 A 20090320

Abstract (en)
[origin: EP2199704A2] The electrical heating device comprises an electrical heating element (5) and a heat exchanger (1) which has an inflow side for passing a heating fluid. A large surface portion of the inflow side has different sizes of the openings, where the large openings are arranged at a large distance from the heating element. The size of the openings increases with increasing the distance from the heating element.

IPC 8 full level
F24H 3/04 (2006.01); **H05B 3/50** (2006.01)

CPC (source: EP)
F24H 3/0405 (2013.01); **F24H 9/1872** (2013.01); **H05B 3/50** (2013.01); **H05B 2203/022** (2013.01); **H05B 2203/023** (2013.01)

Citation (search report)
• [XD] WO 2007071335 A1 20070628 - BERU AG [DE], et al
• [X] FR 2323108 A1 19770401 - SEPRO [FR]

Cited by
CN103997802A; EP3379153A1; US9485809B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2199704 A2 20100623; EP 2199704 A3 20131113; EP 2199704 B1 20140827; DE 102009013927 A1 20100624

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EP 09015168 A 20091208; DE 102009013927 A 20090320