

Title (en)
ELECTRIC HEATING DEVICE

Title (de)
ELEKTRISCHE HEIZVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE ÉLECTRIQUE

Publication
EP 3136820 A4 20171220 (EN)

Application
EP 14890173 A 20140530

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Abstract (en)
[origin: EP3136820A1] Various embodiments relating to an electric heating device equipped in a vehicle are described. An electric heating device according to one embodiment can comprise: a heat dissipation fin; a PTC guide unit positioned on one side of the heat dissipation fin; a terminal frame having an electrode terminal unit on one end part thereof and covering an outer side of the heat dissipation fin; and a PTC device supported by the PTC guide unit, wherein one end part of the PTC guide unit may have a terminal connection part coupled to the electrode terminal part. Other various embodiments are also possible

IPC 8 full level
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Citation (search report)
• [X] EP 2241840 A1 20101020 - VALEO SYSTEMES THERMIQUES [FR]
• [A] US 2008073336 A1 20080327 - BOHLENDER FRANZ [DE], et al
• See references of WO 2015163526A1

Cited by
US2017055316A1; US10182470B2

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

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