

Title (en)
Heat exchanger

Title (de)
Wärmeübertrager

Title (fr)
Caloporteur

Publication
EP 2293648 A1 20110309 (DE)

Application
EP 09290663 A 20090902

Priority
EP 09290663 A 20090902

Abstract (en)
The heat exchanger (10) has a heating register (1) arranged in a frame (11) and provided with two contact plates (6, 6'). An insulation profile (16) is provided on the heating register in a potential-free arrangement, and is made of silicone. Rib elements contact heat conductive plates at the heating register. A covering element covers the contact plates and power supply elements e.g. cable and conductor rails, and is made of plastic. A seal e.g. rubber profile or foam profile, is provided between the covering element and the heat exchanger.

Abstract (de)
Die Erfindung betrifft einen Wärmeübertrager (10), insbesondere einen elektrischen Zuheizter für ein Kraftfahrzeug, mit zumindest einem zumindest ein Heizelement (3) und zumindest zwei Kontaktbleche (6, 6') aufweisenden Heizregister (1), wobei das zumindest eine Heizregister (1) in einem Rahmen (11) angeordnet ist, wobei auf dem zumindest einen Heizregister (1) ein Isolierungsprofil (16) in potentialfreier Anordnung vorgesehen ist

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

CPC (source: EP)
F24H 3/0405 (2013.01); **F24H 3/0429** (2013.01); **F24H 9/1863** (2013.01); **F24H 9/1872** (2013.01); **H05B 3/50** (2013.01)

Citation (applicant)
EP 1182908 B1 20030423 - CATEM GMBH & CO KG [DE]

Citation (search report)

- [X] US 2008173637 A1 20080724 - TAGUCHI KOSHIRO [JP]
- [A] EP 2063683 A1 20090527 - CALSONIC KANSEI CORP [JP]
- [A] EP 1523226 A1 20050413 - BEHR FRANCE SARL [FR]
- [A] EP 1802176 A1 20070627 - VALEO SYSTEMES THERMIQUES [FR]

Cited by
EP3064856A1; US10363797B2; EP2933577B1

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 2293648 A1 20110309; EP 2293648 B1 20170719

DOCDB simple family (application)
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