

Title (en)

HEAT EXCHANGER, IN PARTICULAR FOR A MOTOR VEHICLE

Title (de)

WÄRMETAUSCHER, INSBESONDERE FÜR EIN KRAFTFAHRZEUG

Title (fr)

ÉCHANGEUR THERMIQUE, NOTAMMENT POUR VÉHICULE AUTOMOBILE

Publication

EP 3394554 B1 20200408 (FR)

Application

EP 16829104 A 20161216

Priority

- FR 1562890 A 20151221
- FR 2016053494 W 20161216

Abstract (en)

[origin: WO2017109347A1] The invention relates to a heat exchanger, in particular for a motor vehicle, said exchanger comprising a heat-exchanger core with a plurality of heat-exchanger tubes (5) defining channels for circulating a fluid. According to the invention: the heat-exchanger core comprises a plurality of first frames (13) for receiving heat-exchanger tubes (5); and the first frames (13) for receiving heat-exchanger tubes respectively comprise at least one stress-absorption area (133), arranged on at least one edge (13A, 13B) opposite one end of a heat-exchanger tube (5) and capable of withstanding mechanical stress.

IPC 8 full level

F28F 9/02 (2006.01); **F28D 7/00** (2006.01); **F28D 7/16** (2006.01); **F28D 9/00** (2006.01); **F28F 1/02** (2006.01)

CPC (source: EP)

F28D 7/0025 (2013.01); **F28D 7/1684** (2013.01); **F28D 7/1692** (2013.01); **F28D 9/0081** (2013.01); **F28F 1/022** (2013.01); **F28F 9/0221** (2013.01); **F28D 2021/0068** (2013.01); **F28D 2021/0073** (2013.01); **F28D 2021/008** (2013.01); **F28F 2225/08** (2013.01)

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

DOCDB simple family (publication)

FR 3045806 A1 20170623; EP 3394554 A1 20181031; EP 3394554 B1 20200408; WO 2017109347 A1 20170629

DOCDB simple family (application)

FR 1562890 A 20151221; EP 16829104 A 20161216; FR 2016053494 W 20161216