

Title (en)

HEAT EXCHANGER AND METHOD FOR PRODUCING A HEAT EXCHANGER

Title (de)

WÄRMEÜBERTRAGER UND VERFAHREN ZUR HERSTELLUNG EINES WÄRMEÜBERTRAGERS

Title (fr)

ÉCHANGEUR DE CHALEUR ET PROCÉDÉ DE FABRICATION D'UN ÉCHANGEUR DE CHALEUR

Publication

EP 3194873 B1 20181121 (DE)

Application

EP 15760184 A 20150908

Priority

- DE 102014218677 A 20140917
- EP 2015070471 W 20150908

Abstract (en)

[origin: WO2016041815A1] The invention relates to a heat exchanger (1) for a motor vehicle, comprising a heat exchanger block (7) and at least one collection box (5) with a tube plate (8). The heat exchanger block (7) is made of a plurality of adjacent tubes (2) and corrugated rib elements (3) arranged between the tubes, and one of the end regions of the tubes (2) is received in the tube plate (8) of the collection box (5) in a fluid-tight manner. The tube plate (8) of the collection box (5) is made of plastic and is injection molded onto the heat exchanger block (7). A spacer element (4) through which the tubes (2) are guided is arranged between the tube plate (8) of the collection box (5) and the heat exchanger block (7), and the corrugated rib elements (3) are spaced from the tube plate (8) of the collection box (5) by the spacer (4). The invention further relates to a method for producing a heat exchanger (1).

IPC 8 full level

F28D 1/053 (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP US)

F28D 1/053 (2013.01 - EP US); **F28D 1/05316** (2013.01 - US); **F28F 1/126** (2013.01 - US); **F28F 9/0224** (2013.01 - EP US); **F28F 9/0229** (2013.01 - EP US); **F28F 2009/0297** (2013.01 - US); **F28F 2240/00** (2013.01 - US); **F28F 2255/14** (2013.01 - EP US); **F28F 2255/143** (2013.01 - US)

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)

DE 102014218677 A1 20160317; BR 112016028930 A2 20170822; CN 106716037 A 20170524; EP 3194873 A1 20170726; EP 3194873 B1 20181121; US 2017261266 A1 20170914; WO 2016041815 A1 20160324

DOCDB simple family (application)

DE 102014218677 A 20140917; BR 112016028930 A 20150908; CN 201580049789 A 20150908; EP 15760184 A 20150908; EP 2015070471 W 20150908; US 201515512155 A 20150908