

Title (en)

Heat exchanger and use and production method of a heat exchanger

Title (de)

Wärmetauscher, Verwendung und Herstellungsverfahren eines Wärmetauschers

Title (fr)

Echangeur thermique, utilisation et procédé de fabrication d'un échangeur thermique

Publication

EP 2151655 A3 20140101 (DE)

Application

EP 09165742 A 20090717

Priority

- DE 102008036975 A 20080808
- DE 102008051896 A 20081016

Abstract (en)

[origin: EP2151655A2] The heat exchanger (10) comprises a block for guiding and separating the two heat exchangeable fluids from each other. A case (3) is assigned to the block, which is fluidically connected with the flow channels. A base (1) is provided with one or multiple through-holes for the feedthrough of the flow channels between the block and the case. A flange (7) is provided, which has a ground level section at one side and an end sided section, where a wall cross section of the end sided section is lesser than a wall section of the ground level section. An independent claim is included for a method for manufacturing a heat exchanger.

IPC 8 full level

F28F 9/18 (2006.01); **B21D 53/02** (2006.01)

CPC (source: EP US)

F28D 1/05366 (2013.01 - EP US); **F28F 9/182** (2013.01 - EP US); **B21D 41/02** (2013.01 - EP US); **B21D 53/02** (2013.01 - EP US); **Y10T 29/4935** (2015.01 - US); **Y10T 29/49373** (2015.01 - US)

Citation (search report)

- [X] FR 2764054 A1 19981204 - VALEO THERMIQUE MOTEUR SA [FR]
- [X] DE 10016029 A1 20011004 - MODINE MFG CO [US]
- [A] FR 2421357 A1 19791026 - THERMAL WAERME KAELTE KLIMA [DE]

Cited by

CN103213291A; CN103562668A; US10371464B2; US9599413B2; WO2012150237A1; WO2014123474A1

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

DOCDB simple family (publication)

EP 2151655 A2 20100210; **EP 2151655 A3 20140101**; **EP 2151655 B1 20171101**; DE 102009033774 A1 20100304; US 2010038063 A1 20100218; US 8720535 B2 20140513

DOCDB simple family (application)

EP 09165742 A 20090717; DE 102009033774 A 20090717; US 53829809 A 20090810