

Title (en)

HEAT EXCHANGER AND METHOD FOR PRODUCTION THEREOF

Title (de)

WÄRMETAUSCHER UND VERFAHREN FÜR DESSEN HERSTELLUNG

Title (fr)

ÉCHANGEUR THERMIQUE ET PROCÉDÉ DE FABRICATION

Publication

EP 2347211 A2 20110727 (DE)

Application

EP 09760732 A 20091116

Priority

- EP 2009008133 W 20091116
- DE 102008058210 A 20081119

Abstract (en)

[origin: WO2010057603A2] The invention relates to a heat exchanger for transferring heat from a heating medium, particularly the exhaust flow of an internal combustion engine, to a working medium that evaporates in the heat exchanger, comprising an alternating stacking sequence of guiding layers for the heating medium and guiding layers for the working medium; in which the heating medium and the working medium are guided in cross counter flow; wherein each guiding layer for the working medium comprises a channel plate that exhibits at least one meandering through-hole and wherein cover plates are arranged on both sides of the channel plate that seal the through-hole laterally except for one inlet and one outlet, forming a working medium channel, wherein the channel plate is connected to the cover plates by a firm bond; and wherein the working medium channel comprises a first section originating from the inlet, said first section having a first free cross-section, and a second section flowing into the outlet, said second section having a second free cross-section that is wider than the first free cross-section.

IPC 8 full level

F28F 13/08 (2006.01)

CPC (source: EP US)

B23K 26/364 (2015.10 - EP US); **B23P 15/26** (2013.01 - EP US); **F28D 9/0075** (2013.01 - EP US); **F28F 13/08** (2013.01 - EP US); **F01N 5/02** (2013.01 - EP US); **F28D 2021/0064** (2013.01 - EP US); **Y10T 29/49357** (2015.01 - EP US)

Citation (search report)

See references of WO 2010057603A2

Citation (examination)

- US 2006201154 A1 20060914 - KATO MASASHI [JP], et al
- US 2006201153 A1 20060914 - KUROTANI TADASHI [JP], et al
- WO 9428298 A1 19941208 - KURKI SUONIO EERO JUHO ILMARI [FI]

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)

DE 102008058210 A1 20100520; EP 2347211 A2 20110727; US 2012006021 A1 20120112; WO 2010057603 A2 20100527; WO 2010057603 A3 20110526

DOCDB simple family (application)

DE 102008058210 A 20081119; EP 09760732 A 20091116; EP 2009008133 W 20091116; US 99863209 A 20091116