

Title (en)
EXHAUST GAS RE-CIRCULATION COOLER

Title (de)
ABGASRÜCKFÜHRUNGSKÜHLER

Title (fr)
REFROIDISSEUR À RECIRCULATION DE GAZ D'ÉCHAPPEMENT

Publication
EP 3845852 A1 20210707 (EN)

Application
EP 19383212 A 20191230

Priority
EP 19383212 A 20191230

Abstract (en)
An EGR cooler includes plates received inside a housing. The housing includes gas inlets and gas outlets, a coolant inlet and a coolant outlet. The gas inlets and the gas outlets are fluidically connected to each other by gas passages defined by the plates. The coolant inlet and the coolant outlet is for ingress of coolant inside the housing and around the gas passages and egress of the coolant from inside the housing respectively. The coolant inlet and outlet are arranged with respect to the gas inlets outlets to define cross flow configuration between coolant flow and gas flow. At least one of the plates includes at least one first guide formed on a coolant flow side thereof and disposed near the coolant inlet and an array of second guides formed on the coolant flow side thereof and disposed near coolant outlet.

IPC 8 full level
F28F 9/02 (2006.01); **F02M 26/32** (2016.01); **F28D 9/00** (2006.01); **F28D 21/00** (2006.01); **F28F 3/04** (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP)
F02M 26/32 (2016.02); **F28D 9/00** (2013.01); **F28D 21/0003** (2013.01); **F28F 3/044** (2013.01); **F28F 9/005** (2013.01); **F28F 9/0268** (2013.01); **F28D 2021/008** (2013.01)

Citation (search report)
• [X] GB 1048122 A 19661109 - NICHOLSON TERENCE PETER
• [X] US 2008110595 A1 20080515 - PALANCHON HERVE [CA]
• [X] JP H08105697 A 19960423 - KAJIMA CORP, et al
• [E] CN 107314699 B 20200207

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

Designated extension state (EPC)
BA ME

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