

Title (en)
EXHAUST GAS HEAT EXCHANGER

Title (de)
ABGASWÄRMEÜBERTRAGER

Title (fr)
CALOPORTEUR DE GAZ D'ÉCHAPPEMENT

Publication
EP 3108194 B1 20180502 (DE)

Application
EP 15703771 A 20150205

Priority
• DE 102014202447 A 20140211
• EP 2015052426 W 20150205

Abstract (en)
[origin: WO2015121148A1] The invention relates to an exhaust gas heat exchanger (1), comprising a pipe bundle (2) having pipes (3) conveying exhaust gas, wherein the pipe bundle (2) is gripped at the intake end and at the discharge end respectively in a base (4, 5), and comprising a housing (7) through which a coolant (6) flows, which housing (7) surrounds the pipe bundle (2), is delimited at the end faces through the two bases (4, 5), and has a coolant inlet (8) and a coolant outlet (9). An extended service life results if in the region of the coolant inlet (8) a flow guiding means (10) is provided, which directs the coolant (6) to locations on the housing (7) at risk of boiling, i.e. to the base on the intake side (4), wherein the at least one flow guiding element (11) forces a change of direction of the coolant flow (6) of approximately $0^\circ < \alpha < 90^\circ$, in particular from approximately $15^\circ < \alpha < 42^\circ$.

IPC 8 full level
F28D 7/16 (2006.01); **F02M 26/00** (2016.01); **F02M 26/32** (2016.01); **F28D 21/00** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)
F02M 26/32 (2016.02); **F28D 7/16** (2013.01); **F28F 9/0265** (2013.01); **F28F 9/028** (2013.01); **F28D 21/0003** (2013.01)

Citation (examination)
• JP 2013053620 A 20130321 - USUI KOKUSAI SANGYO KK
• JP H1113550 A 19990119 - ISUZU MOTORS LTD
• DE 102010012192 A1 20110922 - PIERBURG GMBH [DE]

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 102014202447 A1 20150813; EP 3108194 A1 20161228; EP 3108194 B1 20180502; WO 2015121148 A1 20150820

DOCDB simple family (application)
DE 102014202447 A 20140211; EP 15703771 A 20150205; EP 2015052426 W 20150205