

Title (en)

GAS HEAT EXCHANGER, IN PARTICULAR FOR EXHAUST GASES OF AN ENGINE

Title (de)

GASWÄRMETAUSCHER, IM BESONDEREN FÜR ABGASE EINES MOTORS

Title (fr)

ÉCHANGEUR THERMIQUE POUR GAZ, EN PARTICULIER POUR LES GAZ D'ÉCHAPPEMENT D'UN MOTEUR

Publication

EP 2926077 B1 20181219 (FR)

Application

EP 13801494 A 20131122

Priority

- ES 201231852 A 20121128
- EP 2013074480 W 20131122

Abstract (en)

[origin: WO2014082931A1] The invention relates to a gas heat exchanger (1), in particular for the exhaust gases of an engine, which includes a plurality of parallel tubes (2) arranged inside a housing (3), and through which the gases to be cooled by heat exchange with a coolant flow, the coolant intake (4) and output (5) pipes each being arranged at an opposite end of the housing (3), preferably on a single side of said housing (3). Each tube (2) includes a projection (6) facing the flow direction of the gases, said tubes (2) being capable of being assembled by stacking one on another, such that the projections (6) of the respective tubes (2) define a deflector-type barrier (6a, 6b) intended to create a predetermined path suitable for appropriately distributing the flow of the coolant, from the intake (4) thereof to the output (5) thereof, around the tubes (2) and along the exchanger (1). The distribution of the flow of coolant passing through the exchanger is improved while avoiding the use of conventional deflectors.

IPC 8 full level

F28D 21/00 (2006.01); **F02M 26/29** (2016.01); **F02M 26/32** (2016.01); **F28D 7/16** (2006.01); **F28F 1/02** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP ES US)

F02M 26/29 (2016.02 - EP US); **F02M 26/32** (2016.02 - EP US); **F28D 7/163** (2013.01 - US); **F28D 7/1684** (2013.01 - EP US); **F28F 1/02** (2013.01 - ES); **F28F 13/06** (2013.01 - EP US); **F28D 21/0003** (2013.01 - EP US); **F28F 2001/027** (2013.01 - EP ES US)

Citation (examination)

FR 2936043 A1 20100319 - VALEO SYSTEMES THERMIQUES [FR]

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)

WO 2014082931 A1 20140605; CN 104981678 A 20151014; CN 104981678 B 20181127; EP 2926077 A1 20151007; EP 2926077 B1 20181219; ES 2463616 A1 20140528; ES 2463616 B1 20150304; ES 2716569 T3 20190613; KR 101694083 B1 20170106; KR 20150088872 A 20150803; US 2015308387 A1 20151029

DOCDB simple family (application)

EP 2013074480 W 20131122; CN 201380069105 A 20131122; EP 13801494 A 20131122; ES 13801494 T 20131122; ES 201231852 A 20121128; KR 20157017052 A 20131122; US 201314648033 A 20131122