

Title (en)

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

Title (de)

WÄRMETAUSCHER FÜR GASE, IM BESONDEREN FÜR MOTORABGASE

Title (fr)

ECHANGEUR THERMIQUE POUR GAZ, EN PARTICULIER POUR LES GAZ D'ECHAPPEMENT D'UN MOTEUR

Publication

EP 2817503 B2 20221221 (FR)

Application

EP 13708372 A 20130222

Priority

- ES 201230270 A 20120222
- EP 2013053587 W 20130222

Abstract (en)

[origin: WO2013124431A1] A heat exchanger (1) for gases, in particular for the exhaust gases of an engine, comprising a bundle of tubes (2) arranged inside a casing (3), intended for the circulation of the gases in order to exchange heat with a coolant, at least one gas tank (6) that can be fitted to one end of the casing (3) and connected to the gas recirculation line, and a particle filter (7) for filtering the exhaust gases, associated with said gas tank (6). Said filter (7) is incorporated into the gas tank (6) and forms a single inseparable part that can be fitted to the casing (3) of the exchanger (1). Preferably, the filter (7) is incorporated into the gas tank (6) by welding. A filter which is fully incorporated into the gas tank in a single part is obtained, which therefore facilitates the assembly thereof to the exchanger casing.

IPC 8 full level

F02M 26/00 (2016.01); **F02M 26/30** (2016.01); **F02M 26/50** (2016.01); **F28D 1/04** (2006.01); **F28D 21/00** (2006.01); **F28F 9/02** (2006.01); **F28F 19/01** (2006.01)

CPC (source: EP ES US)

F02M 26/30 (2016.02 - EP US); **F02M 26/50** (2016.02 - EP US); **F28D 1/04** (2013.01 - US); **F28D 1/05308** (2013.01 - ES); **F28D 21/0003** (2013.01 - EP US); **F28F 19/01** (2013.01 - EP ES US); **F28D 7/16** (2013.01 - EP US); **F28F 9/02** (2013.01 - EP US)

Cited by

WO2017108614A1

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 2013124431 A1 20130829; EP 2817503 A1 20141231; EP 2817503 B1 20160824; EP 2817503 B2 20221221; EP 2817503 B9 20161221; ES 2421185 A2 20130829; ES 2421185 B1 20140811; ES 2421185 R1 20131216; KR 20140120917 A 20141014; US 2015034056 A1 20150205

DOCDB simple family (application)

EP 2013053587 W 20130222; EP 13708372 A 20130222; ES 201230270 A 20120222; KR 20147022931 A 20130222; US 201314380096 A 20130222