

Title (en)

Heat exchanger, exhaust gas recirculation system and internal combustion engine

Title (de)

Wärmetauscher, Abgasrückführsystem und Brennkraftmaschine

Title (fr)

Echangeur thermique, système de recyclage des gaz d'échappement et moteur à combustion interne

Publication

EP 2667007 B1 20150415 (DE)

Application

EP 13181477 A 20090710

Priority

- EP 13181477 A 20090710
- EP 09290561 A 20090710

Abstract (en)

[origin: EP2273095A1] The exchanger (10) has a heat exchanger block (11) for implementation of heat exchange, and connection lines (14.1, 14.2) for supplying a working fluid (AF) to the exchanger. A working fluid-filter is brought between the heat exchanger block and the connection lines, for integration of the working fluid-filter in the exchanger. The connection lines are connected to the heat exchanger block and are connected with a connection flange (18). The working fluid-filter includes a filter area formed in flat-shape. An independent claim is also included for an exhaust gas recirculation system including a particle filter.

IPC 8 full level

F02M 25/07 (2006.01); **F28F 19/01** (2006.01); **F02B 29/04** (2006.01)

CPC (source: EP)

F02M 26/30 (2016.02); **F02M 26/32** (2016.02); **F02M 26/35** (2016.02); **F28F 19/01** (2013.01); **F02B 29/0462** (2013.01); **F02B 29/0475** (2013.01); **F02M 35/024** (2013.01); **F28D 21/0003** (2013.01); **F28D 2021/0082** (2013.01)

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

DOCDB simple family (publication)

EP 2273095 A1 20110112; **EP 2273095 B1 20140108**; EP 2667007 A1 20131127; EP 2667007 B1 20150415

DOCDB simple family (application)

EP 09290561 A 20090710; EP 13181477 A 20090710