

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 2273095 B1 20140108 (DE)**

Application

**EP 09290561 A 20090710**

Priority

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)

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)

Citation (examination)

EP 2194351 A1 20100609 - BEHR GMBH & CO KG [DE], et al

Cited by

DE102013208436A1; US2015354506A1; CN102619648A; US2016265488A1; EP3181851A1; ES2421185R1; US2015034056A1; CN104234877A; US11168651B2; ES2618827R1; KR20140132672A; WO2013124431A1; WO2015049603A2; WO2017108615A1; US10605134B2; WO2015049603A3; WO2017108614A1; EP2801709A1; EP2817503B1

Designated contracting state (EPC)

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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