

Title (en)  
Exhaust gas heat exchanger

Title (de)  
Abgaswärmeübertrager

Title (fr)  
Échangeur thermique pour gaz d'échappement

Publication  
**EP 2559962 B1 20181003 (DE)**

Application  
**EP 12180174 A 20120810**

Priority  
DE 102011081031 A 20110816

Abstract (en)  
[origin: EP2559962A2] The heat exchanger (1) comprises a tube bundle with exhaust pipes (15) and coolant housing (2) which encloses the tube bundle and refrigerant inlet (3) and coolant outlet (4). A three-dimensional coolant guide device (5) is formed between tube bundle and housing for adjusting coolant channel (6,7), such that the refrigerant inlet is opened into the coolant channel.

IPC 8 full level  
**F28D 7/16** (2006.01); **F01N 5/02** (2006.01); **F02M 26/28** (2016.01); **F28F 9/00** (2006.01); **F28F 9/02** (2006.01); **F28F 9/22** (2006.01)

CPC (source: EP)  
**F02M 26/28** (2016.02); **F28D 7/1684** (2013.01); **F28F 9/005** (2013.01); **F28F 9/026** (2013.01); **F28F 9/22** (2013.01); **F01N 2240/02** (2013.01)

Cited by  
DE102014202447A1; DE102017218254A1; WO2019072853A1; US2018335263A1; DE102017208324A1; US2017045308A1; US11029100B2; CN111148961A; US11655745B2; US11002490B2; US10883773B2; WO2016091806A1

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)  
**EP 2559962 A2 20130220; EP 2559962 A3 20140409; EP 2559962 B1 20181003**; DE 102011081031 A1 20130221

DOCDB simple family (application)  
**EP 12180174 A 20120810**; DE 102011081031 A 20110816