

Title (en)  
Exhaust gas cooling module for a combustion engine

Title (de)  
Abgaskühlmodul für eine Verbrennungskraftmaschine

Title (fr)  
Module de refroidissement de gaz d'échappement pour un moteur à combustion interne

Publication  
**EP 2378104 B1 20120523 (DE)**

Application  
**EP 11159365 A 20110323**

Priority  
DE 102010014842 A 20100413

Abstract (en)  
[origin: EP2378104A1] The module has a valve (10) comprising an actuator (28) for operating exhaust gas reconducting flaps (12, 14) arranged in a valve housing (2), where the valve controls exhaust gas return channels (16, 18). A waste-gas heat exchanger (6) is connected with the housing. A coolant channel (34) is formed in the housing and connected with a coolant channel (44) of the exchanger. A coolant inlet (46) and a coolant outlet (52) of the housing are fluidically connected with a coolant inlet (50) and a coolant outlet (56) of the exchanger over communicating passages (48, 54) i.e. straight tubes, respectively.

IPC 8 full level  
**F02M 25/07** (2006.01); **F28D 7/16** (2006.01)

CPC (source: EP)  
**F02M 26/28** (2016.02); **F02M 26/73** (2016.02); **F28D 7/1607** (2013.01); **F28D 21/0003** (2013.01)

Cited by  
US10422305B2; WO2016180717A1

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DOCDB simple family (publication)  
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DE 102010014842 B3 20110922; ES 2386121 T3 20120809

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