

Title (en)

HEAT-EXCHANGER MODULE, SPECIALLY DESIGNED FOR AN EXHAUST GAS RECYCLING SYSTEM

Title (de)

WÄRMETAUSCHERMODUL, DAS INSBESONDERE FÜR EIN ABGASRÜCKFÜHRSYSTEM AUSGELEGT IST

Title (fr)

MODULE ECHANGEUR DE CHALEUR, SPECIALEMENT CONCU POUR UN SYSTEME DE RECYCLAGE DES GAZ D'ECHAPPEMENT

Publication

**EP 1343963 B1 20080409 (FR)**

Application

**EP 01272042 A 20011217**

Priority

- EP 0115411 W 20011217
- ES 200003048 A 20001219
- ES 200101065 A 20010427

Abstract (en)

[origin: WO02052142A1] The invention concerns a heat-exchanger module specially designed for an exhaust gas recycling system comprising a heat exchanger (1) provided with ducts (11) for heat exchanging gas flow with a coolant. The invention is characterised in that it further comprises at least a bypass (12) integrated in the exchanger (1), adapted to circulate exhaust gases without the latter being actually cooled. The module can further comprise means (2, 20, 20') for selecting the path of the exhaust gases, which preferably comprise a valve (20, 20') having two positions associated with said bypass (12), which opens or closes said duct to allow through exhaust gases or a three-way valve (2). As a result of its minimum space requirement and its simple construction mode, it enables to cool exhaust gases selectively while maintaining a minimum level of polluting gases.

IPC 8 full level

**F02M 25/07** (2006.01); **F28D 7/16** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)

**F02M 26/32** (2016.02); **F28D 7/1669** (2013.01); **F28F 27/02** (2013.01); **F02M 26/26** (2016.02); **F02M 2026/004** (2016.02); **F28D 21/0003** (2013.01); **F28F 2250/06** (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 02052142 A1 20020704**; AT E391844 T1 20080415; EP 1343963 A1 20030917; EP 1343963 B1 20080409

DOCDB simple family (application)

**EP 0115411 W 20011217**; AT 01272042 T 20011217; EP 01272042 A 20011217