

Title (en)

Heat transfer device between the exhaust gas of an internal combustion engine and a cooling fluid

Title (de)

Vorrichtung zur Wärmeübertragung zwischen dem Abgas eines Verbrennungsmotors und einem Kühlmittel

Title (fr)

Dispositif de transfert de chaleur entre le gaz d'échappement et un fluide de refroidissement

Publication

EP 1455079 A3 20080227 (DE)

Application

EP 04000419 A 20040112

Priority

DE 10309298 A 20030304

Abstract (en)

[origin: EP1455079A2] The exhaust gas cooling device has a heat transfer region (2) for transfer of heat from the exhaust gas to a cooling medium, positioned between an exhaust gas entry region (3) and an exhaust gas exit region (4). A setting element, for control of the exhaust gas flow through an integrated bypass channel (7) for the heat transfer region is provided by rotary ball (14) provided with a through flow channel, positioned in front of the entry opening (15) of the bypass channel or after its exit opening. The outside surface of the ball has at least one flow region, for passage of the exhaust gas through the heat transfer region in a second rotary position, in which the bypass channel is closed by the ball body.

IPC 8 full level

F02M 25/07 (2006.01)

CPC (source: EP)

F02M 26/25 (2016.02); **F02M 26/26** (2016.02); **F02M 26/32** (2016.02); **F02M 26/70** (2016.02); **F28D 7/1653** (2013.01); **F28F 27/02** (2013.01)

Citation (search report)

- [A] EP 1277945 A1 20030122 - COOPER STANDARD AUTOMOTIVE D [DE]
- [A] EP 0942156 A1 19990915 - ECIA EQUIP COMPOSANTS IND AUTO [FR]

Cited by

DE102014106386A1; DE102014106386B4; EP2942500A1; US9964075B2; US9279623B2; JP4925214B2; WO2012139978A3

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

EP 1455079 A2 20040908; **EP 1455079 A3 20080227**; **EP 1455079 B1 20090311**; AT E425352 T1 20090315; DE 10309298 B3 20040819; DE 502004009110 D1 20090423

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