

Title (en)
Exhaust gas recirculation system

Title (de)
Abgasrückführsystem

Title (fr)
Système de recirculation des gaz d'échappement

Publication
EP 2025910 A1 20090218 (DE)

Application
EP 07014901 A 20070730

Priority
EP 07014901 A 20070730

Abstract (en)
The system (10) has a cooler (12) with a housing (24) and a valve that comprises a rotatably operated valve element on an inflow side (20). An actuator (14) for the valve is attached to the cooler housing, and is connected with the valve by a lever (30) and connecting element i.e. coupling bar (32). A ball joint is provided between the lever and the connecting element, and the valve element is eccentrically provided with respect to a rotation axis in a direction. The valve element locks a valve seat around an entire circumference of the seat.

Abstract (de)
Ein Abgasrückführsystem (10) mit zumindest einem Kühler (12) mit einem Gehäuse (24) und zumindest einem Ventil (50) mit einem schwenkend betätigten Ventilelement auf einer Zuströmseite (20) zeichnet sich dadurch aus, dass ein Aktuator (14) für das Ventil an dem Kühlergehäuse (24) angebracht ist.

IPC 8 full level
F02M 25/07 (2006.01)

CPC (source: EP KR US)
F02M 26/26 (2016.02 - KR); **F02M 26/32** (2016.02 - EP KR US); **F02M 26/53** (2016.02 - KR); **F02M 26/55** (2016.02 - KR);
F02M 26/58 (2016.02 - EP KR US); **F02M 26/26** (2016.02 - EP US); **F02M 26/53** (2016.02 - EP US); **F02M 26/55** (2016.02 - EP US)

Citation (applicant)

- EP 0916837 A2 19990519 - BEHR GMBH & CO [DE], et al
- JP H0988727 A 19970331 - HINO MOTORS LTD
- EP 1251263 A2 20021023 - DELPHI TECH INC [US]
- EP 1462643 A1 20040929 - COOPER STANDARD AUTOMOTIVE D [DE]
- EP 1640593 A1 20060329 - COOPER STANDARD AUTOMOTIVE D [DE]

Citation (search report)

- [XY] EP 1251263 A2 20021023 - DELPHI TECH INC [US]
- [Y] EP 1462643 A1 20040929 - COOPER STANDARD AUTOMOTIVE D [DE]
- [Y] EP 1126156 A2 20010822 - BORGWARNER INC [US]
- [Y] EP 1707790 A1 20061004 - COOPER STANDARD AUTOMOTIVE D [DE]
- [X] EP 1489373 A2 20041222 - MODINE MFG CO [US]

Cited by
EP2088307A3; EP2310658A4; EP2556239A4; DE112009004785T5; EP2895715B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2025910 A1 20090218; EP 2025910 B1 20091202; AT E450706 T1 20091215; CN 101358566 A 20090204; DE 502007002202 D1 20100114; ES 2337192 T3 20100421; KR 101501772 B1 20150311; KR 20090013083 A 20090204; KR 20140103243 A 20140826; PT 2025910 E 20100223; US 2009139502 A1 20090604; US 8353274 B2 20130115

DOCDB simple family (application)
EP 07014901 A 20070730; AT 07014901 T 20070730; CN 200810129443 A 20080729; DE 502007002202 T 20070730; ES 07014901 T 20070730; KR 20080074053 A 20080729; KR 20140097494 A 20140730; PT 07014901 T 20070730; US 18202908 A 20080729