

Title (en)
Exhaust gas recirculation control valve

Title (de)
Abgasrückführsteuerventil

Title (fr)
Soupape de contrôle de recirculation de gaz d'échappement

Publication
EP 0740064 A1 19961030 (DE)

Application
EP 95120483 A 19951222

Priority
DE 29506928 U 19950425

Abstract (en)
The valve is operated by an electromagnet (5) which opens it against the opposition of a closure spring (6) to connect the exhaust pipe to the air intake system. The valve rod (7) protrudes through the air duct (3) from a section (9) within a guide (8) whose cross-sectional area (10) corresponds to that of the seating (11). The other end of the guide opens into a chamber (13) vented to atmosphere. Forces on the valve during a surge in the intake system are compensated by the counter-pressure on the protruding section of the rod.

Abstract (de)
Das neue Abgasrückführsteuerventil zeichnet sich dadurch aus, daß eine den Luftanschlußkanal (3) durchragende Ventilstange (7) einen aus einer Stangenführung (8) herausragenden Abschnitt (9) aufweist, dessen Querschnitt (10) in etwa der Ventilschließfläche (11) entspricht, wobei die Stangenführung (8) mit einem anderen Ende (12) in eine Kammer (13) hineinragt, die atmosphärisch belüftet ist. <IMAGE>

IPC 1-7
F02M 25/07

IPC 8 full level
F02M 25/07 (2006.01); **F02M 26/53** (2016.01)

CPC (source: EP KR US)
F02M 25/06 (2013.01 - KR); **F02M 26/53** (2016.02 - EP US); **F02M 26/02** (2016.02 - EP US); **F02M 26/67** (2016.02 - EP US)

Citation (search report)

- [A] GB 2250801 A 19920617 - PIERBURG GMBH [DE]
- [A] DE 4410487 C1 19950302 - DAIMLER BENZ AG [DE]
- [A] FR 2147745 A6 19730309 - BOSCH GMBH ROBERT [DE]

Cited by
US5950605A; US5947092A; US5901690A; EP1072784A3; US5924675A; EP1288482A3; EP2107231A1; DE10213693B4; WO0100982A1; WO9911918A1; WO9911919A1; WO9902847A1; EP0923667B1

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
DE 29506928 U1 19950622; DE 59501712 D1 19980430; EP 0740064 A1 19961030; EP 0740064 B1 19980325; ES 2114269 T3 19980516; KR 100423128 B1 20040705; KR 960038093 A 19961121; US 5701874 A 19971230

DOCDB simple family (application)
DE 29506928 U 19950425; DE 59501712 T 19951222; EP 95120483 A 19951222; ES 95120483 T 19951222; KR 19960008330 A 19960326; US 63389096 A 19960417