

Title (en)
Exhaust gas recirculation system

Title (de)
Abgasrückführsystem

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

Publication
EP 1030050 B2 20160914 (DE)

Application
EP 00102114 A 20000204

Priority
DE 19906401 A 19990216

Abstract (en)
[origin: EP1030050A1] The system has an exhaust gas feedback valve for feeding exhaust gas back to the air delivery system to the engine, whereby the exhaust gases pass through a cooler (10), a bypass line (17) round the cooler and a branching device (18) with its inlet connected to an exhaust gas return line and two passages, one connected to the cooler and one to the bypass line. The gases can be controllably passed through the cooler or bypass line. The branching device is arranged before the cooler and forms an integral component of the cooler.

IPC 8 full level
F02M 26/01 (2016.01); **F02M 25/07** (2006.01); **F02M 26/26** (2016.01); **F02M 26/32** (2016.01)

CPC (source: EP)
F02M 26/26 (2016.02); **F02M 26/32** (2016.02); **F02M 26/28** (2016.02)

Citation (opposition)
Opponent :

- US 4147141 A 19790403 - NAGANO TETSURO
- DE 69405340 T2 19980319 - RENAULT VEHICULES IND [FR]
- DE 19733964 A1 19990211 - VOLKSWAGEN AG [DE]
- DE 2842653 A1 19790412 - BORG WARNER
- GB 2223272 A 19900404 - STEYR DAIMLER PUCH AG [AT]

Cited by
FR2838776A1; EP1363013A1; DE102005029322A1; JP2007522374A; EP1467082A4; ES2399036A1; FR2848605A1; EP1273786A3; CN100379971C; US7743816B2; EP1363012A1; EP2067977A3; DE10350521A1; DE10203003A1; DE10203003B4; EP1748179A1; EP1132609A3; US7610949B2; US8365813B2; EP2067977A2; US6976480B2; FR2827011A1; DE102007019089A1; WO03085252A3; WO2005075928A1; WO03062625A1; WO0210574A1; WO2007042209A1; WO2006136372A1; US8061334B2; US7032577B2; US7168419B2; EP1273786A2; US6807955B2; EP2642109A2; DE102012005762A1; WO2008011973A1; WO03098026A1; WO02052142A1; WO0216750A1; JP2014224475A; JP2014224474A

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DOCDB simple family (publication)
EP 1030050 A1 20000823; EP 1030050 B1 20040908; EP 1030050 B2 20160914; AT E275691 T1 20040915; DE 19906401 C1 20000831; DE 50007649 D1 20041014; ES 2226620 T3 20050401; ES 2226620 T5 20170317; PT 1030050 E 20050131

DOCDB simple family (application)
EP 00102114 A 20000204; AT 00102114 T 20000204; DE 19906401 A 19990216; DE 50007649 T 20000204; ES 00102114 T 20000204; PT 00102114 T 20000204