

Title (en)

Pressure balancing metering subassembly for use with a modular egr valve

Title (de)

Dosierventilbaugruppe mit Druckausgleichvorrichtung für ein modulares Abgasrückführungsventil

Title (fr)

Sous-ensemble de valve de dosage avec dispositif d'équilibrage de pression pour valve de recirculation de gaz d'échappement modulaire

Publication

EP 1130246 A3 20020828 (EN)

Application

EP 01200650 A 20010222

Priority

- US 18453000 P 20000224
- US 18453300 P 20000224

Abstract (en)

[origin: EP1130246A2] A leakage arresting system comprising a novel gas arrestor 43, 43' for installation on an interrupted pintle shaft in a pintle-type valve 10', 10", such as an exhaust gas recirculation valve for an internal combustion engine, for preventing leakage of gas and moisture along the pintle shaft 22'a, 22"a into the actuator, to prevent corrosion and failure of the actuator. The system comprises two elements: a pintle shaft which is interrupted outside the actuator, and a positive vapor block in the form of a cup-shaped arrestor disposed across the pintle interruption. The invention is applicable to both unbalanced and force-balanced valves. <IMAGE>

IPC 1-7

F02M 25/07

IPC 8 full level

F02M 25/07 (2006.01)

CPC (source: EP)

F02M 26/50 (2016.02); **F02M 26/53** (2016.02); **F02M 26/67** (2016.02)

Citation (search report)

- [X] WO 9918344 A1 19990415 - SIEMENS CANADA LTD [CA]
- [X] US 5988147 A 19991123 - EVERINGHAM GARY [CA]
- [X] WO 9947842 A1 19990923 - ROBERTSHAW CONTROLS CO [US]
- [X] DE 4039351 A1 19920611 - PIERBURG GMBH [DE]
- [X] US 5626165 A 19970506 - SHINOBU HIDEYUKI [JP]
- [X] DE 19752495 A1 19990602 - PIERBURG AG [DE]

Cited by

DE112007003021B4; EP1398494A1; US6749174B2

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