

Title (en)

Device for avoiding cavitation in injection pumps

Title (de)

Vorrichtung zum Verhindern von Kavitation bei Einspritzpumpen

Title (fr)

Dispositif pour éviter la cavitation dans les pompes à injection

Publication

EP 0931928 B1 20030903 (FR)

Application

EP 99400183 A 19990127

Priority

FR 9800836 A 19980127

Abstract (en)

[origin: EP0931928A1] The system consists of a calibrated valve (6) in the excess fuel return pipe (5) in parallel with and close to the injection pump return port (4b), designed to give an increase in pressure in the pump port, and a normally-open one-way valve (7). The one-way valve (7), which is springloaded, is closed when the pressure in the port rises above that in the fuel feed pipe (2) before its non-return valve (3).

IPC 1-7

F02M 55/00; **F02M 59/46**

IPC 8 full level

F02M 55/00 (2006.01); **F02M 55/02** (2006.01); **F02M 59/44** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)

F02M 55/001 (2013.01 - EP US); **F02M 59/44** (2013.01 - KR); **F02M 2200/04** (2013.01 - EP US); **F02M 2200/40** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT CH DE DK FI FR GB LI NL

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EP 0931928 A1 19990728; **EP 0931928 B1 20030903**; AT E248988 T1 20030915; BR 9900355 A 20000229; CN 1118622 C 20030820; CN 1224802 A 19990804; DE 69910850 D1 20031009; DE 69910850 T2 20040729; DK 0931928 T3 20040105; FR 2774132 A1 19990730; FR 2774132 B1 20000407; HK 1021655 A1 20000623; JP H11280597 A 19991012; KR 100625891 B1 20060920; KR 19990068166 A 19990825; NO 322999 B1 20061218; NO 990368 D0 19990127; NO 990368 L 19990728; PL 194133 B1 20070430; PL 331056 A1 19990802; US 6065453 A 20000523

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