

Title (en)
High pressure pump

Title (de)
Hochdruckpumpe

Title (fr)
Pompe à haute pression

Publication
EP 0840009 B1 20031015 (DE)

Application
EP 97110986 A 19970702

Priority
DE 19644915 A 19961029

Abstract (en)
[origin: EP0840009A2] The pump has a cam-operated pump piston (3), reciprocating within a pump cylinder (4) and an electromagnetic valve (9), controlling the flow of fuel between the low pressure circuit and the working chamber (5) of the pump cylinder, in both directions. The high pressure line between the pump and the common rail of the fuel injection system contains a non-return valve (7). The magnetic valve has a spring-loaded valve closure (10), cooperating with a valve seat (12) to provide a non-return valve, with a valve rod lifting it from its valve seat when the valve magnet is operated at the beginning of the high pressure feed.

IPC 1-7
F02M 59/36; F02M 63/02; F04B 49/22

IPC 8 full level
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F02M 45/06 (2013.01 - KR); **F02M 59/367** (2013.01 - EP US); **F02M 59/464** (2013.01 - EP US); **F02M 59/466** (2013.01 - EP US);
F02M 63/0225 (2013.01 - EP US); **F04B 7/0076** (2013.01 - EP US); **F04B 49/243** (2013.01 - EP US)

Cited by
WO2012038196A1; EP1306553A3; CN106555745A; KR100514275B1; EP1657432A1; EP1477665A3; FR2793283A1; EP4093971A4;
EP1701031A1; EP1898085A3; WO2021150342A1; DE102013225418A1; WO2013127545A1; DE102010041031A1; DE102013225390A1;
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DE 19644915 A1 19980430; DE 59710857 D1 20031120; EP 0840009 A2 19980506; EP 0840009 A3 19991201; EP 0840009 B1 20031015;
JP H10141177 A 19980526; KR 100514275 B1 20051125; KR 19980032334 A 19980725; US 6116870 A 20000912

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