

Title (en)
Fuel injection system

Title (de)
Kraftstoffeinspritzsystem

Title (fr)
Système d'injection de combustible

Publication
EP 1008746 B1 20041222 (DE)

Application
EP 99122213 A 19991106

Priority
DE 19857249 A 19981211

Abstract (en)
[origin: EP1008746A2] The fuel injection system includes a protective circuit governed by fuel filter pressure differences and makes use of a valve (12) which returns fuel to the tank (2) as a function of the filter pressure difference. The valve housing (13) contains a piston (14) which reciprocates under spring load so as to free either a shutoff bore (16) in the housing (13) through which fuel reaches the highpressure pump or again frees a control bore (17) in the housing used to return fuel to the tank (2) off the feed pump (1). A bypass (10) round the valve (12) contains an expansion element (28) which and/or the valve (12) are integrated in the fuel filter cover (8).

IPC 1-7
F02M 37/22; **F02M 63/02**

IPC 8 full level
F02M 37/22 (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP US)
F02D 33/006 (2013.01 - EP US); **F02M 37/40** (2018.12 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 37/34** (2018.12 - EP US)

Cited by
CN114174656A; EP1338787A1; CN103946527A; EP1683960A3; EP1683960A2; WO2008017547A1; WO2013075946A1; WO2021018840A1

Designated contracting state (EPC)
DE FR GB

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EP 1008746 A2 20000614; **EP 1008746 A3 20030917**; **EP 1008746 B1 20041222**; DE 19857249 A1 20000615; DE 59911324 D1 20050127; JP 2000170617 A 20000620; US 6520162 B1 20030218

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EP 99122213 A 19991106; DE 19857249 A 19981211; DE 59911324 T 19991106; JP 34913899 A 19991208; US 45894899 A 19991201