Title (en)

FUEL INJECTION DEVICE FOR A COMBUSTION ENGINE

Title (de)

KRAFTSTOFFEINSPRITZEINRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE

Publication

EP 1476654 B1 20071219 (DE)

Application

EP 02804534 A 20021205

Priority

- DE 0204456 W 20021205
- DE 10205186 A 20020208

Abstract (en)

[origin: WO03067072A1] Disclosed is a fuel injection device comprising a feed pump (10) feeding fuel from a fuel reservoir (12) to a high-pressure pump (18). Said high-pressure pump (18) feeds fuel into a storage unit (24) which is connected to at least one injector (26) injecting fuel into the combustion engine. A fuel filter (20) is disposed between the feed pump (10) and the high-pressure pump (18). A return path (60) for fuel is provided from the at least one injector (26) and/or from the storage unit (24) to a low-pressure area. Another fuel filter (62) is disposed in the return path (60) which runs into the connection (16) between the feed pump (1) and the high-pressure pump (18) downstream from the fuel filter (62).

IPC 8 full level

F02M 37/00 (2006.01); **F02M 55/02** (2006.01); **F02M 37/04** (2006.01); **F02M 37/22** (2006.01); **F02M 53/00** (2006.01); **F02M 55/00** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP KR US)

F02M 53/00 (2013.01 - EP US); **F02M 55/002** (2013.01 - EP US); **F02M 55/02** (2013.01 - KR); **F02M 63/00** (2013.01 - KR); **F02M 63/0001** (2013.01 - EP US); **F02M 63/02** (2013.01 - KR); **F02M 63/0225** (2013.01 - EP US); F02M 2200/315 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03067072 A1 20030814; **WO 03067072 A9 20040610**; AT E381669 T1 20080115; BR 0208724 A 20040720; BR 0208724 B1 20110628; CN 100335774 C 20070905; CN 1498308 A 20040519; DE 10205186 A1 20030821; DE 50211417 D1 20080131; EP 1476654 A1 20041117; EP 1476654 B1 20071219; JP 2005517120 A 20050609; KR 100941534 B1 20100210; KR 20040080328 A 20040918; US 2004103883 A1 20040603; US 7044110 B2 20060516

DOCDB simple family (application)

DE 0204456 W 20021205; AT 02804534 T 20021205; BR 0208724 A 20021205; CN 02806744 A 20021205; DE 10205186 A 20020208; DE 50211417 T 20021205; EP 02804534 A 20021205; JP 2003566397 A 20021205; KR 20037013117 A 20021205; US 47432203 A 20031008