

Title (en)
FUEL INJECTION SYSTEM

Title (de)
KRAFTSTOFFEINSPRITZEINRICHTUNG

Title (fr)
SYSTEME D'INJECTION DE CARBURANT

Publication
EP 1078160 B1 20050518 (DE)

Application
EP 00910561 A 20000229

Priority
• DE 0000580 W 20000229
• DE 19910970 A 19990312

Abstract (en)
[origin: DE19910970A1] The invention relates to a fuel injection system (1) comprising a pressure intensifying unit (9) arranged between a pressure accumulation chamber (6) and a nozzle chamber (16). The pressure chamber (14) of the pressure intensifying unit is connected to said nozzle chamber (16) via a pressure line (20). In addition, a bypass line (28) is provided which is connected to the pressure accumulation chamber (6). The bypass line (28) is directly connected to the pressure line. The bypass line (28) can be used for to effect pressure injection and is arranged parallel to the pressure chamber (14) so that the bypass line (28) can be passed through regardless of the movement and position of a displaceable pressure means (12) of the pressure intensifying unit (9). The inventive fuel injection system increases the versatility of injection.

IPC 1-7
F02M 59/10; **F02M 57/02**; **F02M 47/02**

IPC 8 full level
F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 55/00** (2006.01); **F02M 55/02** (2006.01); **F02M 57/02** (2006.01); **F02M 59/10** (2006.01); **F02M 63/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)
F02M 47/027 (2013.01 - EP US); **F02M 57/025** (2013.01 - EP US); **F02M 59/10** (2013.01 - KR); **F02M 59/105** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 2200/21** (2013.01 - EP US)

Cited by
KR100853894B1; US6854445B2; EP1284357B1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19910970 A1 20000928; DE 50010339 D1 20050623; EP 1078160 A1 20010228; EP 1078160 B1 20050518; JP 2002539372 A 20021119; JP 4638604 B2 20110223; KR 100676642 B1 20070201; KR 20010043493 A 20010525; US 6453875 B1 20020924; WO 0055496 A1 20000921

DOCDB simple family (application)
DE 19910970 A 19990312; DE 0000580 W 20000229; DE 50010339 T 20000229; EP 00910561 A 20000229; JP 2000605096 A 20000229; KR 20007012576 A 20001110; US 70027601 A 20010221