

Title (en)
FUEL INJECTION DEVICE

Title (de)
KRAFTSTOFFEINSPRITZEINRICHTUNG

Title (fr)
DISPOSITIF D'INJECTION DE CARBURANT

Publication
EP 1370762 A1 20031217 (DE)

Application
EP 02727209 A 20020312

Priority
• DE 0200860 W 20020312
• DE 10112154 A 20010314

Abstract (en)
[origin: WO02073024A1] The invention relates to a fuel injection device (1) for combustion engines comprising at least one lift-controlled injector (10). A pressure intensifier (9) comprising a displaceable piston (26) is arranged between the at least one injector (10) and a working medium high-pressure source (5). The displaceable piston (26) which separates a primary chamber (13) which can be connected to the working medium high pressure source (5) from a pressure chamber (8) which is connected to at least one injector (10) and filled with fuel. The pressure intensifier (9) generates a first fuel system pressure in the injector (10), which is used for injecting. The fuel injection device (1) comprises means for producing an additional second fuel system pressure, which can be used for injecting without activating the pressure intensifier (9).

IPC 1-7
F02M 47/04; **F02M 57/02**; **F02M 59/10**; **F02M 63/02**; **F02M 47/02**

IPC 8 full level
F02M 37/18 (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 47/04** (2006.01); **F02M 57/02** (2006.01); **F02M 59/10** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP US)
F02M 47/027 (2013.01 - EP US); **F02M 47/043** (2013.01 - EP US); **F02M 57/025** (2013.01 - EP US); **F02M 59/105** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US)

Citation (search report)
See references of WO 02073024A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02073024 A1 20020919; DE 10112154 A1 20020926; DE 50203953 D1 20050922; EP 1370762 A1 20031217; EP 1370762 B1 20050817; JP 2004518872 A 20040624; US 2003183198 A1 20031002; US 6814057 B2 20041109

DOCDB simple family (application)
DE 0200860 W 20020312; DE 10112154 A 20010314; DE 50203953 T 20020312; EP 02727209 A 20020312; JP 2002572258 A 20020312; US 27614803 A 20030519