

Title (en)  
FUEL INJECTION DEVICE

Title (de)  
KRAFTSTOFFEINSPRITZEINRICHTUNG

Title (fr)  
DISPOSITIF D'INJECTION DE CARBURANT

Publication  
**EP 1123462 A1 20010816 (DE)**

Application  
**EP 00958209 A 20000802**

Priority  
• DE 0002579 W 20000802  
• DE 19939429 A 19990820

Abstract (en)  
[origin: DE19939429A1] The invention relates to a fuel injection device (1), comprising one or more pump-nozzle units or pump-line-nozzle systems (6) that correspond to the number of cylinders and that compress the fuel. The fuel injection device is also provided with a hydraulic pressure multiplier (10). The inventive device facilitates fuel injection over a wide speed range and with high precision using the pump-nozzle unit (6) and the pressure multiplier (10).

IPC 1-7  
**F02M 57/02**; **F02M 59/10**; **F02M 45/00**

IPC 8 full level  
**F02M 45/00** (2006.01); **F02M 45/02** (2006.01); **F02M 45/04** (2006.01); **F02M 47/02** (2006.01); **F02M 57/02** (2006.01); **F02M 59/10** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP KR US)  
**F02M 45/00** (2013.01 - EP US); **F02M 45/02** (2013.01 - EP US); **F02M 45/04** (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 57/023** (2013.01 - EP US); **F02M 57/025** (2013.01 - EP KR US); **F02M 59/105** (2013.01 - EP US); **F02M 63/0007** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 47/027** (2013.01 - KR); **F02M 57/023** (2013.01 - KR); **F02M 59/105** (2013.01 - KR); **F02M 63/0007** (2013.01 - KR); **F02M 63/0225** (2013.01 - KR); **F02M 2200/21** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 0114724A1

Designated contracting state (EPC)  
DE GB IT SE

DOCDB simple family (publication)  
**DE 19939429 A1 20010301**; DE 50009917 D1 20050504; EP 1123462 A1 20010816; EP 1123462 B1 20050330; JP 2003507649 A 20030225; KR 20010083913 A 20010903; US 6513497 B1 20030204; WO 0114724 A1 20010301

DOCDB simple family (application)  
**DE 19939429 A 19990820**; DE 0002579 W 20000802; DE 50009917 T 20000802; EP 00958209 A 20000802; JP 2001518573 A 20000802; KR 20017004877 A 20010419; US 80791701 A 20010521