

Title (en)
Injection nozzle

Title (de)
Einspritzdüse

Title (fr)
Injecteur

Publication
EP 0741244 B1 19990707 (DE)

Application
EP 96106549 A 19960425

Priority
• DE 19516245 A 19950503
• DE 19541819 A 19951109

Abstract (en)
[origin: EP0741244A2] A fuel injector (12) for application in a common-rail (8) fuel distribution system for e.g. a six-cylinder IC engine as illustrated in Fig. 1, is regulated by a controller (20) having the usual performance monitoring/control inputs (22, 24) to result in fuel from the tank (2) being delivered via the feed pump (4), HP pump (6) and rail (8) to the injectors (12) via the pipes (10). The system employs a fuel return line (14) controlled by a valve (36) which is actuated by means of a piezo-electric or magnetostrictive pile (40). Fuel at injection pressure is connected by the six pipes (10) to the injector pistons (30) via the cross-ducts (34) and to the injector nozzle cavities/seats (28) to be injected as each valve (36) opens.

IPC 1-7
F02M 47/02; **F02M 45/04**; **F02M 59/46**

IPC 8 full level
F02M 45/08 (2006.01); **F02M 45/04** (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 51/06** (2006.01); **F02M 59/46** (2006.01); **F02D 41/38** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP US)
F02M 45/04 (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 63/0026** (2013.01 - EP US); **F02M 63/0036** (2013.01 - EP US); **F02M 63/0056** (2013.01 - EP US); **F02D 41/3809** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US)

Cited by
DE19929589C2; EP0911511A3; DE10157886B4; DE10131631A1; DE102004042189A1; DE102004042189B4; DE10133682B4; DE19983014B4; EP0845077B1

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