

Title (en)
Fuel injector

Title (de)
Kraftstoffeinspritzventil

Title (fr)
Injecteur de carburant

Publication
EP 1607619 A3 20080827 (DE)

Application
EP 05103114 A 20050419

Priority
DE 102004028885 A 20040615

Abstract (en)
[origin: EP1607619A2] The fuel injection system (1) has a piezoelectric actuator (30) pushing upward on a plate (32) attached to a piston rod (33). The piston (38) slides in a sharp-edged sleeve (39) in contact with a channel plate (4). Fuel flows through a bore (45) from a first chamber (47) into a second chamber (46) and presses on a piston (18) in one piece with a needle valve (10) with a tip (14,16) which can seal off the injector nozzle (12).

IPC 8 full level
F02M 51/06 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 51/0603 (2013.01); **F02M 2200/703** (2013.01); **F02M 2200/708** (2013.01)

Citation (search report)
• [X] US 4101076 A 19780718 - BART HANS U
• [X] DE 19843535 A1 20000330 - BOSCH GMBH ROBERT [DE]
• [X] DE 19947779 A1 20010412 - BOSCH GMBH ROBERT [DE]
• [X] DE 19915210 A1 20001005 - BOSCH GMBH ROBERT [DE]

Cited by
CN111051681A; US11608805B2; US9447761B2; WO2014139274A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
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