

Title (en)
Fuel injector

Title (de)
Kraftstoffeinspritzdüse

Title (fr)
Injecteur de carburant

Publication
EP 1719904 A1 20061108 (DE)

Application
EP 06110845 A 20060308

Priority
DE 102005220359 A 20050502

Abstract (en)
Fuel injection nozzle (1) has guide boring (13) in which the nozzle needle (4) and a control piston (17) are guided, forming first control chamber (18) lying in-between. The control piston facing the first control chamber is limited on the opposite side of the second control chamber (19). A control valve (27) is provided between the second control chamber and the discharge (28). An inlet throttle (24) is provided, by which the first control chamber is connected with high pressure pipe (8). A damper throttle (25) is provided in the control piston by which the two control chambers are connected. A pre-stressing spring (23) is provided, which pre-stresses the control piston in the direction of nozzle needle.

IPC 8 full level
F02M 47/02 (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 63/0225** (2013.01); **F02M 2200/304** (2013.01); **F02M 2547/003** (2013.01)

Citation (applicant)
DE 19939420 A1 20010301 - BOSCH GMBH ROBERT [DE]

Citation (search report)
• [X] US 2002153429 A1 20021024 - BOECKING FRIEDRICH [DE]
• [A] DE 10315489 B3 20040826 - BOSCH GMBH ROBERT [DE]
• [A] US 2005023372 A1 20050203 - WEIMKEN NORVAL J [US], et al
• [A] FR 2824109 A1 20021031 - DENSO CORP [JP]
• [A] FR 2823535 A1 20021018 - TOYOTA MOTOR CO LTD [JP]

Cited by
DE102013002969B3; CN110848060A; EP1967727A3; US9765737B2; US8480009B2; WO2013178338A1

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 LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

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