

Title (en)
Fuel injection apparatus

Title (de)
Kraftstoffeinspritzeinrichtung

Title (fr)
Dispositif d'injection de carburant

Publication
EP 1666719 A1 20060607 (DE)

Application
EP 05110930 A 20051118

Priority
DE 102004058689 A 20041206

Abstract (en)
Fuel injector has hydraulic damper (37) which is arranged in the control circuit (13) and an injection nozzle (3). The hydraulic damper is so formed that it displays its damping action starting from predetermined prestroke (38) of injection nozzle at the opening of injection nozzle.

IPC 8 full level
F02M 57/02 (2006.01); **F02M 47/02** (2006.01); **F02M 59/10** (2006.01); **F02M 61/10** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 57/025** (2013.01); **F02M 59/105** (2013.01); **F02M 61/10** (2013.01)

Citation (applicant)
DE 10218904 A1 20021205 - BOSCH GMBH ROBERT [DE]

Citation (search report)

- [A] WO 2004003375 A1 20040108 - BOSCH GMBH ROBERT [DE], et al
- [A] WO 2004003377 A1 20040108 - BOSCH GMBH ROBERT [DE], et al
- [A] EP 0641931 A1 19950308 - SERVOJET ELECTRONIC SYST LTD [US]
- [A] US 2001039935 A1 20011115 - KATO MASAOKI [JP], et al

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

DOCDB simple family (publication)
EP 1666719 A1 20060607; DE 102004058689 A1 20060614

DOCDB simple family (application)
EP 05110930 A 20051118; DE 102004058689 A 20041206