

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication
EP 1880100 B1 20170607 (DE)

Application
EP 06708697 A 20060309

Priority

- EP 2006060577 W 20060309
- DE 102005020364 A 20050502
- DE 102005038444 A 20050816

Abstract (en)
[origin: WO2006117259A1] The invention relates to a fuel injection valve with a housing (1) that comprises a valve body (3) with at least one injection opening (18). The outer cylindrical surface of the valve body (3) is essentially configured in a rotational symmetrical manner and has a first cylindrical section (103) followed by a second cylindrical section (203) of the outer cylindrical surface, said second cylindrical section facing the injection openings (18) and having a smaller diameter than the first cylindrical section (103), thereby forming a valve shoulder (30). A recess (35) is formed at the transfer of the valve shoulder (30) to the second cylindrical section (203). In addition or optionally, an annular groove (50; 50') can be formed at the inner or outer surface of the second cylindrical section (203).

IPC 8 full level
F02M 61/16 (2006.01); **F02M 47/02** (2006.01)

CPC (source: EP)
F02M 47/02 (2013.01); **F02M 61/168** (2013.01); **F02M 2200/03** (2013.01)

Citation (examination)

- DE 19546361 A1 19960711 - ZEXEL CORP [JP]
- JP S6326770 U 19880222
- JP 2004218542 A 20040805 - TOYOTA MOTOR CORP
- WO 2004031570 A1 20040415 - BOSCH GMBH ROBERT [DE], et al

Cited by
RU194380U1

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)
DE 102005038444 A1 20061109; EP 1880100 A1 20080123; EP 1880100 B1 20170607; WO 2006117259 A1 20061109

DOCDB simple family (application)
DE 102005038444 A 20050816; EP 06708697 A 20060309; EP 2006060577 W 20060309