

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE COMBUSTIBLE

Publication
EP 2329132 A1 20110608 (DE)

Application
EP 09781107 A 20090727

Priority
• EP 2009059643 W 20090727
• DE 102008042154 A 20080917

Abstract (en)
[origin: WO2010031628A1] A fuel injection valve (1), which is designed in particular as an injector for fuel injection systems of air-compressing, auto-ignition internal combustion engines, comprises a housing part (5), an actuating element (2) disposed in the housing part (5), a nozzle body (6), and a nozzle pin (3). In a connecting region (12), the nozzle body (6) is connected to the housing part (5) by way of a nozzle tensioning nut (7). The nozzle needle (3) is disposed in part in a bore (10) of the housing part (5) and in part in a bore (11) of the nozzle body (6). The housing part (5) and the nozzle body (6) engage in each other in the connecting region (12), wherein between the housing part (5) and the nozzle body (6) a seal is formed, to which high pressure (P) present in the connecting region (12) in the bore (10) of the housing part (5) and/or in the bore (11) of the nozzle body (6) is radially applied. In this way, a reliable seal is formed, which is self-energizing.

IPC 8 full level
F02M 61/12 (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)
F02M 61/12 (2013.01); **F02M 61/168** (2013.01); **F02M 2200/16** (2013.01); **F02M 2200/8084** (2013.01)

Citation (search report)
See references of WO 2010031628A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
DE 102008042154 A1 20100318; CN 102216601 A 20111012; CN 102216601 B 20131016; EP 2329132 A1 20110608; EP 2329132 B1 20160511; RU 2011115129 A 20131027; RU 2550296 C2 20150510; WO 2010031628 A1 20100325

DOCDB simple family (application)
DE 102008042154 A 20080917; CN 200980145926 A 20090727; EP 09781107 A 20090727; EP 2009059643 W 20090727; RU 2011115129 A 20090727