

Title (en)
CONTROL VALVE OF A FUEL INJECTOR

Title (de)
STEUERVENTIL EINES KRAFTSTOFFEINSPRITZVENTILS

Title (fr)
VALVE DE COMMANDE D'INJECTEUR DE CARBURANT

Publication
EP 3376016 A1 20180919 (EN)

Application
EP 18165540 A 20150929

Priority
• GB 201418256 A 20141015
• EP 15771935 A 20150929
• EP 2015072436 W 20150929

Abstract (en)
A control valve (16) of a fuel injector is provided with a cylindrical valve body (42) extending along a main axis from an upper face (44) to a lower face (46), said body (42) being provided with a large cylindrical shallow recess (48) opening in said upper face (44) and in the bottom of which opens a valve distributor bore (50) axially extending toward the lower face (46). The control valve further has a magnetic armature-stem assembly (62) and, guiding means (56) for slidably guiding the armature-stem assembly (62) into the valve bore (50) and with seating means (70, 72, 74), distinct and independent means from the guiding means (56), for opening or closing a fluid communication between a high pressure conduit (112) and a return conduit (110), both conduits opening in said bore (50).

IPC 8 full level
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CPC (source: EP)
F02M 47/027 (2013.01); **F02M 63/0071** (2013.01); **F02M 63/0078** (2013.01)

Citation (search report)
• [Y] WO 2014048605 A1 20140403 - DELPHI INT OPERATIONS LUXEMBOURG SARL [LU]
• [Y] GB 2350662 A 20001206 - LUCAS IND PLC [GB]
• [A] WO 2013110710 A1 20130801 - DELPHI TECH HOLDING SARL [LU], et al

Designated contracting state (EPC)
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