

Title (en)
FUEL INJECTION VALVE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1752653 A1 20070214 (EN)

Application
EP 05748484 A 20050602

Priority
• JP 2005010527 W 20050602
• JP 2004165707 A 20040603

Abstract (en)
In a fuel injector (30) in which a valve body (36) which allows a valve piston (35) to be slidably inserted therein is arranged in the inside of an injector housing (32), one end of the valve piston (35) is arranged to face a control pressure chamber (364) formed in the inside of the valve body (36), and a high-pressure fuel is supplied to the inside of the control pressure chamber (364) from the injector housing (32), in the inside of the injector housing (32), on an annular stepped portion (321A) which is configured to be aligned with an injector axis, a large-diameter portion (361) of the valve body (36) which forms the control pressure chamber (364) therein and corresponds to the annular stepped portion (321A) is seated by way of a seal plate (50) in which an orifice (501) parallel to the injector axis is formed, and high pressure fuel supplied from the injector housing (32) side is supplied to the inside of the control pressure chamber (364) through an oil passage formed in the inside of the large-diameter portion (361) by way of the orifice (501).

IPC 8 full level
F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 51/00** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 63/0015** (2013.01); **F02M 63/004** (2013.01); **F02M 63/0043** (2013.01); **F02M 2547/003** (2013.01)

Citation (search report)
See references of WO 2005119046A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 1752653 A1 20070214; CN 1969121 A 20070523; JP 2005344623 A 20051215; JP 4087817 B2 20080521; WO 2005119046 A1 20051215

DOCDB simple family (application)
EP 05748484 A 20050602; CN 200580018165 A 20050602; JP 2004165707 A 20040603; JP 2005010527 W 20050602