

Title (en)

Fuel injector with direct needle control for an internal combustion engine

Title (de)

Kraftstoffinjektor mit direkter Nadelsteuerung für eine Brennkraftmaschine

Title (fr)

Injecteur de carburant à commande de poiteau directe pour un moteur à combustion interne

Publication

EP 1693564 A2 20060823 (DE)

Application

EP 05112526 A 20051220

Priority

DE 102005007543 A 20050218

Abstract (en)

Fuel injector has stroke adjustable control member (40) in addition to actuator-side transmission piston (31). First control surface (47) is hydraulically coupled to actuator-side coupler area (36) and second control surface (46) is assigned to control area (37). Actuator-side transmission piston has second pressure area (48), which is assigned to control area as further control surface.

IPC 8 full level

F02M 63/00 (2006.01); **F02M 51/06** (2006.01)

CPC (source: EP US)

F02M 51/0603 (2013.01 - EP US); **F02M 61/167** (2013.01 - EP US); **F02M 2200/703** (2013.01 - EP US)

Citation (applicant)

DE 102004037125 A1 20060323 - BOSCH GMBH ROBERT [DE]

Cited by

EP2949918A1; US7992810B2; WO2008086941A1; WO2009086997A1

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 1693564 A2 20060823; **EP 1693564 A3 20070110**; **EP 1693564 B1 20080723**; AT E402337 T1 20080815; DE 102005007543 A1 20060824; DE 502005004797 D1 20080904; US 2006186221 A1 20060824; US 7258283 B2 20070821

DOCDB simple family (application)

EP 05112526 A 20051220; AT 05112526 T 20051220; DE 102005007543 A 20050218; DE 502005004797 T 20051220; US 35703606 A 20060221