

Title (en)

FUEL INJECTOR COMPRISING A DIRECT MULTI-STAGE INJECTION VALVE MEMBER CONTROL SYSTEM

Title (de)

KRAFTSTOFFINJEKTOR MIT DIREKTER MEHRSTUFIGER EINSPRITZVENTILGLIEDANSTEUERUNG

Title (fr)

INJECTEUR DE CARBURANT A COMMANDE POLYETAGEE DIRECTE DE L'ELEMENT DE SOUPAPE D'INJECTION

Publication

EP 1771651 A1 20070411 (DE)

Application

EP 05749972 A 20050513

Priority

- EP 2005052201 W 20050513
- DE 102004035280 A 20040721

Abstract (en)

[origin: WO2006008200A1] The injection relates to a fuel injector comprising an injection valve member (6) for injecting fuel into the combustion chamber of a self-igniting internal combustion engine. Said injection valve member (6) can be directly controlled by means of an actuator (39). Said actuator directly actuates a pressure exchanger (12) by which means the pressure in a control region (25) acting on the injection valve member (6) can be influenced. The pressure exchanger (12) comprises a first piston (13) and a second piston (14) that are coupled by means of a driving element (20) that can be displaced inside a recess (19) between a first abutment side (21) and a second abutment side (22).

IPC 8 full level

F02M 51/06 (2006.01); **F02M 61/16** (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); **F02M 2200/708** (2013.01 - EP US)

Citation (search report)

See references of WO 2006008200A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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