

Title (en)
FUEL INJECTOR WITH DIRECT CONTROL OF THE INJECTION VALVE BODY

Title (de)
KRAFTSTOFFINJEKTOR MIT DIREKTER STEUERUNG DES EINSPRITZVENTILGLIEDES

Title (fr)
INJECTEUR DE CARBURANT AVEC COMMANDE DIRECTE DE L'ELEMENT D'INJECTEUR

Publication
EP 1831539 A1 20070912 (DE)

Application
EP 05819005 A 20051207

Priority
• EP 2005056563 W 20051207
• DE 102004062007 A 20041223
• DE 102005015997 A 20050407

Abstract (en)
[origin: WO2006069899A1] The invention relates to a fuel injector (10) with direct control of an injection valve body (48). An actuator (14) is housed in a cavity (12), pressurised by high pressure fuel from a high pressure source (22) outside the fuel injector (10). The actuator (14) is active in the closed position of the injection valve body (48) and not active in the open position of the injector valve body (48). The actuator (14) acts directly on a converter piston (24) of a pressure converter (100) which pressurizes the conversion chamber (36). A control chamber sleeve (31), defining a control chamber (46) is displaceably housed in the converter piston (24).

IPC 8 full level
F02M 51/06 (2006.01); **F02M 47/02** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 51/0603 (2013.01 - EP US); **F02M 45/12** (2013.01 - EP US); **F02M 61/167** (2013.01 - EP US); **F02M 2200/705** (2013.01 - EP US)

Citation (search report)
See references of WO 2006069899A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 2006069899 A1 20060706; DE 102005015997 A1 20060713; DE 502005009337 D1 20100512; EP 1831539 A1 20070912;
EP 1831539 B1 20100331; US 2010006675 A1 20100114

DOCDB simple family (application)
EP 2005056563 W 20051207; DE 102005015997 A 20050407; DE 502005009337 T 20051207; EP 05819005 A 20051207;
US 72222005 A 20051207