

Title (en)
COMMON RAIL INJECTOR

Title (de)
COMMON-RAIL-INJEKTOR

Title (fr)
INJECTEUR COMMON RAIL

Publication
EP 1733139 B1 20080326 (DE)

Application
EP 05707805 A 20050119

Priority
• EP 2005050224 W 20050119
• DE 102004015744 A 20040331

Abstract (en)
[origin: US2007221177A1] A common rail injector having an injector housing having a fuel supply line which communicates with a central high-pressure fuel source outside the injector housing and with a pressure chamber inside the injector housing, from which pressure chamber, as a function of the position of a 3/2-way control valve, fuel subjected to high pressure is injected. The 3/2 way control valve, includes a valve piston, movable back and forth in the injector housing between a position of repose and an injection position, which piston is coupled hydraulically with a piezoelectric actuator that is subjected to the pressure from the high-pressure fuel source.

IPC 8 full level
F02M 63/02 (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 47/00 (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 63/0007** (2013.01 - EP US); **F02M 63/0026** (2013.01 - EP US); **F02M 63/0045** (2013.01 - EP US); **F02M 2547/006** (2013.01 - EP US)

Citation (examination)
WO 2005010342 A1 20050203 - BOSCH GMBH ROBERT [DE], et al

Cited by
CN102016285A; US8662411B2; WO2009130065A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007221177 A1 20070927; US 7387110 B2 20080617; AT E390557 T1 20080415; DE 102004015744 A1 20051013; DE 502005003465 D1 20080508; EP 1733139 A1 20061220; EP 1733139 B1 20080326; WO 2005095788 A1 20051013

DOCDB simple family (application)
US 59395605 A 20050119; AT 05707805 T 20050119; DE 102004015744 A 20040331; DE 502005003465 T 20050119; EP 05707805 A 20050119; EP 2005050224 W 20050119