

Title (en)
COMMON RAIL INJECTOR

Title (de)
COMMON-RAIL-INJEKTOR

Title (fr)
INJECTEUR COMMON RAIL

Publication
EP 1891321 A1 20080227 (DE)

Application
EP 06743232 A 20060403

Priority
• EP 2006061271 W 20060403
• DE 102005024721 A 20050530

Abstract (en)
[origin: WO2006128751A1] The invention relates to a common rail injector having an injector housing (1) which has a fuel supply line (26) which is connected to a central high pressure fuel source (28) outside the injector housing and to a pressure space (17) inside the injector housing (1), highly pressurized fuel from said pressure space (17) being injected, as a function of the pressure in a first coupling space (41), into a combustion chamber of an internal combustion engine when a nozzle needle (8) lifts up from its seat, the first coupling space (41) being delimited by that end of the nozzle needle (8) which is remote from the combustion chamber and by that end, which is close to the combustion chamber, of an actuator (30), in particular a piezoelectric actuator, or of a coupler piston (32) attached to that end of the actuator which is close to the combustion chamber. In order to allow a simple reversal of the direction of action of the actuator, the injector comprises a second coupling space (44) which is connected to the first coupling space (41) and is delimited by a nozzle needle pressure face (45) which faces away from the actuator.

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

CPC (source: EP)
F02M 51/0603 (2013.01); **F02M 61/167** (2013.01); **F02M 63/0225** (2013.01); **F02M 2200/704** (2013.01); **F02M 2200/705** (2013.01)

Citation (search report)
See references of WO 2006128751A1

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)
DE 102005024721 A1 20061207; **DE 102005024721 B4 20170608**; EP 1891321 A1 20080227; WO 2006128751 A1 20061207

DOCDB simple family (application)
DE 102005024721 A 20050530; EP 06743232 A 20060403; EP 2006061271 W 20060403