

Title (en)

Injector for a fuel injection system and fuel injection system with such injector

Title (de)

Injektor für eine Kraftstoffeinspritzanlage sowie Kraftstoffeinspritzanlage mit einem solchen Injektor

Title (fr)

Injecteur pour un système d'injection de carburant et système d'injection de carburant avec tel injecteur

Publication

EP 1780406 A1 20070502 (DE)

Application

EP 06405434 A 20061012

Priority

CH 17122005 A 20051025

Abstract (en)

The injector (20) has a nozzle needle (26) configured to be hydraulically actuated by an actuating mechanism (19) arranged at the upper end of the injector housing (18). The actuating mechanism opens and closes an injection valve (22) depending on the axial position of the injection valve. Two separate high-pressure junction (24,25) are situated within the injector housing, and configured to provide external access to an internal high-pressure space (23). The high-pressure junctions are connected to a high-pressure line. The nozzle needle runs through the high-pressure space in axial direction. The injection valve is situated at the lower end of the injector housing and connected to the high-pressure space. The injector housing is extended along an axis (45), and surrounds the high-pressure space for receiving fuel under high pressure.

IPC 8 full level

F02M 61/16 (2006.01)

CPC (source: EP KR US)

F02M 55/00 (2013.01 - KR); **F02M 55/02** (2013.01 - KR); **F02M 55/025** (2013.01 - EP US); **F02M 61/14** (2013.01 - KR); **F02M 61/166** (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F02M 2547/001** (2013.01 - EP US)

Citation (search report)

- [X] EP 1063420 A2 20001227 - DELPHI TECH INC [US]
- [X] DE 10101476 A1 20020725 - BOSCH GMBH ROBERT [DE]
- [A] EP 1469188 A1 20041020 - GEN MOTORS CORP [US]

Cited by

DE102007039893B4; DE102013002758B4; DE102018006853A1; WO2008025597A1

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1780406 A1 20070502; **EP 1780406 B1 20110105**; AT E494477 T1 20110115; CN 1955455 A 20070502; CN 1955455 B 20130807; DE 502006008648 D1 20110217; JP 2007120500 A 20070517; KR 101247664 B1 20130401; KR 20070044784 A 20070430; US 2007089712 A1 20070426

DOCDB simple family (application)

EP 06405434 A 20061012; AT 06405434 T 20061012; CN 200610150707 A 20061024; DE 502006008648 T 20061012; JP 2006289290 A 20061024; KR 20060103541 A 20061024; US 58496006 A 20061023