

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 B1 20110105 (DE)**

Application

**EP 06405434 A 20061012**

Priority

CH 17122005 A 20051025

Abstract (en)

[origin: EP1780406A1] 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 (examination)

- DE 19712135 C1 19980813 - MTU FRIEDRICHSHAFEN GMBH [US]
- DE 3705848 A1 19880901 - BOSCH GMBH ROBERT [DE]

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

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**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

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**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