

Title (en)

Fuel injector and fuel-injection system

Title (de)

Kraftstoffeinspritzdüse und Kraftstoffeinspritzsystem

Title (fr)

Injecteur de carburant et système d'injection de carburant

Publication

EP 2518304 A1 20121031 (EN)

Application

EP 11164309 A 20110429

Priority

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Abstract (en)

A fuel injector (18) of a combustion engine (22) being operable to be arranged in a cylinder head (14) of a combustion engine (22) comprises an injector housing (26) and an adjustment device (50) being arranged in a recess (15) of the cylinder head (14) between the injector housing (26) and the cylinder head (14). The adjustment device (50) comprises a cylindrical portion (51) comprising a first diameter (53) being in the range of a diameter of the injector housing (26) in an area the injector housing (26) is arranged in the cylindrical portion (51). Furthermore the adjustment device (50) comprises a discoidal portion (52) with a central opening with an inner diameter and an outer diameter, the outer diameter being larger than the inner diameter and the inner diameter being in the range of the first diameter (53) of the cylindrical portion (51). The discoidal portion (52) is rigidly coupled to the cylindrical portion (51) along the central opening. The discoidal portion (52) comprises a bottom planar surface (61) being in contact with the cylinder head (14), if the fuel injector (18) is mounted in the cylinder head (14). The discoidal portion (52) comprises a mainly toroidal bended up flange (55) to align the fuel injector relative to the recess in radial and axial direction.

IPC 8 full level

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CPC (source: EP)

F02M 61/14 (2013.01); **F02M 2200/09** (2013.01); **F02M 2200/8023** (2013.01)

Citation (search report)

- [Y] DE 102004049277 A1 20060413 - BOSCH GMBH ROBERT [DE]
- [Y] DE 10027669 A1 20011206 - BOSCH GMBH ROBERT [DE]
- [A] WO 2005021956 A1 20050310 - BOSCH GMBH ROBERT [DE], et al
- [A] EP 2090773 A1 20090819 - CONTINENTAL AUTOMOTIVE GMBH [DE]
- [A] JP H0486368 A 19920318 - KUBOTA KK
- [A] FR 2862717 A1 20050527 - RENAULT SAS [FR]

Designated contracting state (EPC)

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Designated extension state (EPC)

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