

Title (en)
Fuel injector

Title (de)
Kraftstoffeinspritzdüse

Title (fr)
Injecteur à carburant

Publication
EP 2090773 A1 20090819 (EN)

Application
EP 08002856 A 20080215

Priority
EP 08002856 A 20080215

Abstract (en)
Fuel injector (18) of a combustion engine (22) comprising a fuel injector housing (26) and a spacer-ring (35). The injector housing (26) is applicable to be mounted in a cylinder head (14) of the combustion engine (22). The spacer-ring (35) being applicable to allow planar and rotational movements of the fuel injector (18) within the cylinder head (14) of the combustion engine (22). The fuel injector (18) further comprises a fixing device (50). The fixing device (50) comprises a discoidal portion (52) with a central opening and a conic portion (51). The discoidal portion (52) comprises an inner diameter (54), representing the diameter of the central opening, and an outer diameter (55). The outer diameter (55) is larger than the inner diameter (54), whereas the inner diameter (54) is larger than the diameter of the injector housing (26), where the fixing device (50) is arranged. The discoidal portion (52) comprises an upper planar surface (60) and a bottom planar surface (61). The bottom planar surface (61) is in contact with the cylinder head (14). The upper planar surface (60) is in contact with the spacer-ring (35), if the fuel injector (18) is mounted in the cylinder head (14). The conic portion (51) comprises a first diameter (56) and a second diameter (53). The first diameter (56) is larger than the second diameter (53) and is in the range of the inner diameter (54) of the discoidal portion (52). The second diameter (53) being larger than the diameter of the injector housing (26), where the fixing device (50) is arranged. The end of the first diameter (56) of the conic portion (51) is rigidly coupled to the discoidal portion (52).

IPC 8 full level
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CPC (source: EP)
F02M 61/14 (2013.01); **F02M 61/168** (2013.01); **F02M 69/045** (2013.01)

Citation (search report)
• [A] DE 10108194 A1 20020829 - BOSCH GMBH ROBERT [DE]
• [A] DE 102004049277 A1 20060413 - BOSCH GMBH ROBERT [DE]
• [A] WO 2005021956 A1 20050310 - BOSCH GMBH ROBERT [DE], et al
• [A] DE 102004060983 A1 20060622 - BOSCH GMBH ROBERT [DE]
• [A] EP 1862669 A1 20071205 - SIEMENS AG [DE]

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EP2518304A1; WO2020187560A1

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DE FR IT

Designated extension state (EPC)
AL BA MK RS

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