

Title (en)  
Fuel injector

Title (de)  
Kraftstoffeinspritzdüse

Title (fr)  
Injecteur à carburant

Publication  
**EP 2090773 B1 20101208 (EN)**

Application  
**EP 08002856 A 20080215**

Priority  
EP 08002856 A 20080215

Abstract (en)  
[origin: EP2090773A1] 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  
**F02M 61/14** (2006.01); **F02M 61/16** (2006.01); **F02M 69/04** (2006.01)

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

Cited by  
EP2518304A1; WO2020187560A1

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**EP 2090773 A1 20090819**; **EP 2090773 B1 20101208**; DE 602008003891 D1 20110120

DOCDB simple family (application)  
**EP 08002856 A 20080215**; DE 602008003891 T 20080215