

Title (en)

ARRANGEMENT WITH A FUEL DISTRIBUTER AND MULTIPLE FUEL INJECTION VALVES

Title (de)

ANORDNUNG MIT EINEM BRENNSTOFFVERTEILER UND MEHREREN BRENNSTOFFEINSPRITZVENTILEN

Title (fr)

ENSEMBLE COMPRENANT UNE RAMPE DE DISTRIBUTION DE CARBURANT ET PLUSIEURS SOUPAPES D'INJECTION DE CARBURANT

Publication

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Application

EP 13715934 A 20130402

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Abstract (en)

[origin: WO2013160068A1] The invention relates to an arrangement (1) which is used in particular as a fuel injection system for high-pressure fuel injection in internal combustion engines, comprising a fuel distributor (2) and multiple fuel injection valves (3, 4). Each of the fuel injection valves (3, 4) is arranged on a cup (9, 10) of the fuel distributor (2). At least one of the fuel injection valves (3, 4) is secured to the corresponding cup (9) by means of at least one retaining element (30). A bearing surface (19) is provided on the outer face (18) of the cup (9). A supporting surface (17) is provided on the lower face (16) of the cup (9). Furthermore, the retaining element (30) is designed as a retaining bracket (30). A bearing surface (21) is provided on an outer face (20) of the fuel injection valve (3). The retaining bracket (30) engages behind the bearing surface (19) of the cup (9) and behind the bearing surface (21) of the fuel injection valve (3). Furthermore, the retaining bracket (30) urges the fuel injection valve (3) against the supporting surface (17). Composite damping elements (11, 13) are arranged between the fuel injection valve (3) and the supporting surface (17) of the cup (9) and between the bearing surface (21) of the fuel injection valve (3) and the retaining bracket (30). It is thus possible to decouple the fuel injection valves (3, 4) from the fuel distributor (2), whereby noise emissions are reduced.

IPC 8 full level

F02M 61/14 (2006.01)

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Citation (search report)

See references of WO 2013160068A1

Cited by

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