

Title (en)

Fuel injector, fuel rail and injection system with the fuel rail and the fuel injector

Title (de)

Brennstoffeinspritzventil, Common rail und Einspritzsystem

Title (fr)

Injecteur de carburant, common rail et système d'injection de carburant

Publication

**EP 1445474 A1 20040811 (EN)**

Application

**EP 03001800 A 20030128**

Priority

EP 03001800 A 20030128

Abstract (en)

The invention describes a fuel injector (1), a fuel rail (22) and a fuel injection system with a fuel rail and a fuel injector that are connected by a fuel tube (4). The fuel tube is flexible and elastic without changing its diameter. Using the flexible and elastic fuel tube different distances between the fuel rail and a cylinder head or a misalignment between a fuel connecting tube of the fuel rail that is connected with the fuel injector and an injection opening in a cylinder head will be compensated. <IMAGE>

IPC 1-7

**F02M 55/02**; **F02M 61/14**

IPC 8 full level

**F02M 55/02** (2006.01); **F02M 61/14** (2006.01)

CPC (source: EP)

**F02M 55/02** (2013.01); **F02M 55/025** (2013.01); **F02M 61/14** (2013.01); **F02M 69/462** (2013.01)

Citation (search report)

- [XY] US 4295452 A 19811020 - LEMBKE MANFRED, et al
- [Y] US 6148797 A 20001121 - GMELIN KARL [DE]
- [DA] WO 0171179 A2 20010927 - SIEMENS AUTOMOTIVE CORP LP [US]

Cited by

EP2006530A1; CN103140665A; EP1780403A3; EP2813699A1; JP2016520764A; US10260468B2; EP1780403A2; WO2014198818A1

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