

Title (en)

COMPENSATION ELEMENT FOR A FUEL INJECTION VALVE

Title (de)

AUSGLEICHSELEMENT FÜR EIN BRENNSTOFFEINSPRITZVENTIL

Title (fr)

ELEMENT DE COMPENSATION POUR UNE SOUPAPE D'INJECTION DE CARBURANT

Publication

**EP 1421273 B1 20060503 (DE)**

Application

**EP 02754193 A 20020611**

Priority

- DE 0202122 W 20020611
- DE 10140797 A 20010820

Abstract (en)

[origin: WO03018997A1] The invention relates to a compensation element for supporting a fuel injection valve (6) in a cylinder head (7) of an internal combustion engine. Said compensation element is embodied as an intermediate ring (2) and is arranged between the valve housing (14) of the fuel injection valve (6) and a wall (12) of a receiving borehole (11) in the cylinder head (7). The compensation element (1) comprises connecting sections (3) on the intermediate ring (2), said sections extending along the valve housing (14). Supporting segments (4) are fixed to said connecting sections and surround the valve housing (14), distancing the same from the wall (12) of the receiving borehole (11).

IPC 8 full level

**F02F 1/24** (2006.01); **F02M 61/14** (2006.01); **F02M 61/16** (2006.01); **F02M 69/04** (2006.01)

CPC (source: EP US)

**F02M 61/14** (2013.01 - EP US); **F02M 61/167** (2013.01 - EP US); **F02M 69/045** (2013.01 - EP US); **F02M 2200/858** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 03018997 A1 20030306**; CN 100360792 C 20080109; CN 1466656 A 20040107; DE 10140797 A1 20030731; DE 50206685 D1 20060608; EP 1421273 A1 20040526; EP 1421273 B1 20060503; JP 2005500473 A 20050106; JP 4288163 B2 20090701; US 2004089270 A1 20040513; US 6817341 B2 20041116

DOCDB simple family (application)

**DE 0202122 W 20020611**; CN 02802685 A 20020611; DE 10140797 A 20010820; DE 50206685 T 20020611; EP 02754193 A 20020611; JP 2003523825 A 20020611; US 39963203 A 20031120