

Title (en)

Solenoid valve with adjustable armature lift and method for adjusting the same

Title (de)

Magnetventil mit einstellbarem Aktorhub und Verfahren zur Einstellung desselben

Title (fr)

Vanne magnétique avec une course d'armature ajustable et méthode pour l'ajuster

Publication

EP 1577539 A3 20051019 (DE)

Application

EP 05100293 A 20050119

Priority

DE 102004013239 A 20040318

Abstract (en)

[origin: EP1577539A2] The solenoid valve (20) with adjustable armature travel, especially for a fuel injector for an internal combustion engine, has an elastically deformable distance ring (30) installed between the valve casing (25) and injector housing (11). Through a deformation of the distance ring over the distance between the valve casing and injector housing the armature travel is adjustable. The distance ring is a pressurized metal hollow ring or a pressurized, elastically deformable, metal ring, and is filled with fluid. An independent claim is included for a method for the adjusting of an armature travel for a solenoid valve.

IPC 1-7

F02M 47/02; **F02M 59/46**

IPC 8 full level

F02M 47/02 (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 61/168** (2013.01); **F02M 63/0015** (2013.01); **F02M 63/0031** (2013.01); **F02M 2200/26** (2013.01); **F02M 2200/50** (2013.01); **F02M 2200/507** (2013.01); **F02M 2200/8053** (2013.01); **F02M 2200/8092** (2013.01); **F02M 2547/003** (2013.01)

Citation (search report)

- [X] EP 0916843 A1 19990519 - ELASIS SISTEMA RICERCA FIAT [IT]
- [X] EP 0890730 A2 19990113 - ELASIS SISTEMA RICERCA FIAT [IT]
- [DA] DE 10133218 A1 20030130 - BOSCH GMBH ROBERT [DE]

Cited by

EP1960703A4; EP1918568A1; EP2058507A1; US8231105B2; US7513445B2; WO2007065752A1; WO2014206766A1; EP1707798B1

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