

Title (en)

Injector with a magnetic valve for controlling an injection valve

Title (de)

Injector mit einem Magnetventil zur Steuerung eines Einspritzventils

Title (fr)

Injecteur comprenant une soupape électromagnétique pour la commande d'une soupape d'injection

Publication

**EP 1316719 A3 20030806 (DE)**

Application

**EP 02022592 A 20021009**

Priority

DE 10159003 A 20011130

Abstract (en)

[origin: EP1316719A2] Injector comprises a magnetic valve (1) for controlling an injection valve (2). The valve has a movable anchor (3) which can be applied to a valve seat (4) in the lower anchor chamber (5). The anchor chamber is in fluid connection with a control pressure chamber (8) of the injection valve via holes (6, 7). Devices are provided for reducing the pressure fluctuations arising in the lower anchor chamber. <??>Preferred Features: One or more sections of the injection such as the return hole (9) and the lower anchor chamber are formed by recesses. A throttle is formed in the return hole in front of the lower anchor chamber.

IPC 1-7

**F02M 47/02**; **F02M 55/00**; **F02M 59/46**

IPC 8 full level

**F02M 61/16** (2006.01); **F02M 45/08** (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 55/00** (2006.01); **F02M 59/46** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

**F02M 47/027** (2013.01 - EP US); **F02M 55/002** (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 63/0036** (2013.01 - EP US); **F02M 2200/304** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Citation (search report)

- [Y] DE 10009037 A1 20010906 - BOSCH GMBH ROBERT [DE]
- [DA] DE 19650865 A1 19980610 - BOSCH GMBH ROBERT [DE]
- [DA] DE 19708104 A1 19980903 - BOSCH GMBH ROBERT [DE]
- [XY] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03 31 March 1997 (1997-03-31)
- [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 465 (M - 1665) 30 August 1994 (1994-08-30)

Cited by

CN114458508A; DE102013003104A1; DE102015204037A1; WO2008025607A1; WO2008083882A1; DE102011083005A1; DE102011083005B4

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