

Title (en)

Solenoid valve controlling the injection valve of an internal combustion engine and electromagnet for it

Title (de)

Magnetventil zur Steuerung eines Einspritzventils für Brennkraftmaschinen und Elektromagnet dafür

Title (fr)

Electrovanne pour commande d'un injecteur de moteurs à combustion interne et électro-aimant pour celle-ci

Publication

**EP 1179675 A3 20040204 (DE)**

Application

**EP 01116612 A 20010712**

Priority

DE 10039039 A 20000810

Abstract (en)

[origin: EP1179675A2] The electromagnet has a magnetic core (29) formed from a metal-plastics powder mixture and provided with an axial bore (54) and a recess (74) containing a magnetic coil (53). The electromagnet has a metal support frame (60) forming an integrated part of the magnetic core, extending between the opposite ends (68,69) of the latter. Also included are Independent claims for the following: (a) a magnetic valve for controlling an IC engine fuel injection valve; (b) an IC engine fuel injection valve controlled via an electromagnet

IPC 1-7

**F02M 47/02**; **F02M 59/46**; **F02M 51/06**

IPC 8 full level

**F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 51/00** (2006.01); **F02M 59/46** (2006.01); **F16K 31/06** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP)

**F02M 47/027** (2013.01); **F02M 63/0019** (2013.01); **F02M 63/0022** (2013.01); **F02M 63/0075** (2013.01); **F02M 2200/02** (2013.01); **F02M 2200/9015** (2013.01); **F02M 2200/9092** (2013.01); **F02M 2547/003** (2013.01)

Citation (search report)

- [AP] EP 1106816 A2 20010613 - FIAT RICERCHÉ [IT]
- [AD] EP 0665374 A1 19950802 - ELASIS SISTEMA RICERCA FIAT [IT]
- [A] US 5288025 A 19940222 - CERNY MARK S [US]
- [A] US 5634596 A 19970603 - ABIKO YOSHINORI [JP]

Cited by

CN104916385A; CN104916386A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

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**EP 1179675 A2 20020213**; **EP 1179675 A3 20040204**; DE 10039039 A1 20020221; JP 2002161825 A 20020607

DOCDB simple family (application)

**EP 01116612 A 20010712**; DE 10039039 A 20000810; JP 2001239498 A 20010807