

Title (en)
Magnetic valve for controlling a fuel injection valve of a combustion engine

Title (de)
Magnetventil zur Steuerung eines Einspritzventils einer Brennkraftmaschine

Title (fr)
Vanne electromagnetique pour piloter un injecteur d'un moteur a combustion interne

Publication
EP 1270930 B1 20041124 (DE)

Application
EP 02010811 A 20020515

Priority
DE 10131201 A 20010628

Abstract (en)
[origin: EP1270930A1] The device has a housing part (39), an electromagnet (29) with magnet coil (32) and core (33). A spring-loaded armature (27) is movable axially between the electromagnet and a valve seat (24). A control valve element (22,25) moves with the armature and interacts with the valve seat for opening and closing a fuel passage (17). The armature is arranged to move radially in the housing part free from mechanical guide arrangements.

IPC 1-7
F02M 59/46; **F02M 47/02**

IPC 8 full level
F02M 61/16 (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 51/06** (2006.01); **F02M 59/46** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP US)
F02M 47/027 (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 63/0071** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Cited by
EP1746281A3; EP1319827A3; CN112664586A; EP2987993A1; CN114635818A; US9771908B2; US9947449B2; WO2013092461A1; WO2014029850A1; WO2012084328A1; WO2021121971A1

Designated contracting state (EPC)
DE FR IT

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EP 1270930 A1 20030102; **EP 1270930 B1 20041124**; DE 10131201 A1 20030116; DE 50201600 D1 20041230; JP 2003049747 A 20030221; JP 3738237 B2 20060125; US 2003020039 A1 20030130; US 6764061 B2 20040720

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