

Title (en)
Electromagnetic valve with permanent magnet.

Title (de)
Elektromagnetventil mit Dauermagnet.

Title (fr)
Electrovanne à aimant permanent.

Publication
EP 0419352 B1 19940330 (FR)

Application
EP 90402585 A 19900919

Priority
FR 8912487 A 19890922

Abstract (en)
[origin: EP0419352A1] The electromagnetic valve, which can be used in particular in a fuel feed system for an internal combustion engine, comprises a casing (10) containing an electromagnet with a control winding (24) and in which a passage is arranged limited by a seal (32) receiver seat (20) and having a mobile rig in the casing, displaceable between a first position towards which it is attracted by a permanent magnet (36) and another position towards which it is attracted by the electromagnet when a current is fed to the winding (24), one of the positions being defined by the support of the seal (32) on the seat (20). The mobile rig, in addition to the permanent magnet and the seal, has a core (34) of ferromagnetic material arranged so that the airgap of the circuit comprising the electromagnet and the core is at a minimum when that of the magnetic circuit comprising the permanent magnet is at a maximum, and vice versa. <IMAGE>

IPC 1-7
F02M 59/46; F16K 31/08; H01F 7/16

IPC 8 full level
F02M 59/46 (2006.01); **H01F 7/16** (2006.01); **H01F 7/122** (2006.01)

CPC (source: EP)
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Cited by
EP0955645A3; FR2762363A1; US6068236A

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EP 0419352 A1 19910327; **EP 0419352 B1 19940330**; BR 9004843 A 19910910; DE 69007725 D1 19940505; DE 69007725 T2 19940714; FR 2652402 A1 19910329; FR 2652402 B1 19920124

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