

Title (en)

Electromagnetic valve actuator in an internal combustion engine

Title (de)

Elektromagnetischer Hubventilaktuator in einer Brennkraftmaschine

Title (fr)

Perfectionnements apportés à un actionneur électromécanique de soupape de moteur à combustion interne

Publication

**EP 1561914 B1 20100825 (FR)**

Application

**EP 05300062 A 20050126**

Priority

FR 0450202 A 20040203

Abstract (en)

[origin: EP1561914A2] The actuator has two polarized electromagnets (18, 26), each with a permanent magnet. A permanent magnet (22) of the electromagnet (18) permits to maintain a magnetic chuck (10) of a valve in a closed position in the absence of current in a coil (24) of the electromagnet (18). The electromagnet (26) is such that it requires a non-zero current in its coil (32) for maintaining the valve in open position. An independent claim is also included for an engine comprising an inlet and/or exhaust valve actuator.

IPC 8 full level

**F01L 9/20** (2021.01)

CPC (source: EP US)

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