

Title (en)

Electromagnetic valve actuator for an internal combustion engine, and engine with such an actuator

Title (de)

Elektromagnetisch arbeitende Ventilstelleinrichtung in einem Brennkraftmaschine und Brennkraftmaschine mit einer solchen Ventilstelleinrichtung

Title (fr)

Actionneur électromécanique de commande de soupape pour moteur à combustion interne et moteur à combustion interne muni d'un tel actionneur

Publication

EP 1703089 A1 20060920 (FR)

Application

EP 05300200 A 20050318

Priority

EP 05300200 A 20050318

Abstract (en)

The actuator has an isthmus (201) forming a magnetic circuit to form a passage for magnetic flux generated by an electromagnet (204) for a part of a field generated by a magnet (202), when the electromagnet generates a magnetic field to attract and/or maintain a movable magnetic plate (206) opposite to the actuator. The isthmus is magnetically saturated by the partial magnetic field of the magnet. An independent claim is also included for a vehicle comprising an electro mechanic actuator controlling a valve of an internal combustion engine.

IPC 8 full level

F01L 9/20 (2021.01); **H01F 7/16** (2006.01)

CPC (source: EP)

F01L 9/20 (2021.01); **H01F 7/1646** (2013.01); **H01F 7/081** (2013.01); **H01F 2007/1692** (2013.01)

Citation (applicant)

US 6763789 B1 20040720 - LIANG FENG [US], et al

Citation (search report)

- [X] US 6763789 B1 20040720 - LIANG FENG [US], et al
- [E] FR 2865238 A1 20050722 - PEUGEOT CITROEN AUTOMOBILES SA [FR], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 09 4 September 2002 (2002-09-04)
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06 30 April 1998 (1998-04-30)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1703089 A1 20060920; **EP 1703089 B1 20111130**; AT E535682 T1 20111215; ES 2373396 T3 20120203

DOCDB simple family (application)

EP 05300200 A 20050318; AT 05300200 T 20050318; ES 05300200 T 20050318