

Title (en)

Electromagnetic valve actuator for internal combustion engine and engine comprising such an actuator

Title (de)

Elektromagnetischer Aktuator zur Betätigung eines Gaswechselventils an einer Kolbenbrennkraftmaschine und Brennkraftmaschine mit einem solchen Aktuator

Title (fr)

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

Publication

EP 1450011 A3 20081224 (FR)

Application

EP 04300049 A 20040127

Priority

FR 0301950 A 20030218

Abstract (en)

[origin: FR2851291A1] The actuator has an electromagnet (700) formed by a support (704) in the form of E. The electromagnet includes a magnet (702) situated in the branches of support. A mobile magnetic plate (710) comes in contact with the electromagnet. The magnet is located on a surface of the electromagnet with respect to the plate. The magnetic plate concentrates the flux of a magnetic field in the support. An independent claim is also included for an internal combustion engine comprising an electro-mechanical actuator for an inlet valve.

IPC 8 full level

F01L 9/20 (2021.01); **H01F 7/06** (2006.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US); **F01L 2009/2136** (2021.01 - EP US); **F01L 2009/2148** (2021.01 - EP US); **F01L 2009/2151** (2021.01 - EP US)

Citation (search report)

[A] EP 1174595 A1 20020123 - PEUGEOT CITROEN AUTOMOBILES SA [FR]

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

EP 1450011 A2 20040825; **EP 1450011 A3 20081224**; **EP 1450011 B1 20100526**; AT E469289 T1 20100615; DE 602004027323 D1 20100708; ES 2346436 T3 20101015; FR 2851291 A1 20040820; FR 2851291 B1 20061208; JP 2004286021 A 20041014; JP 4622261 B2 20110202; US 2004217313 A1 20041104; US 7097150 B2 20060829

DOCDB simple family (application)

EP 04300049 A 20040127; AT 04300049 T 20040127; DE 602004027323 T 20040127; ES 04300049 T 20040127; FR 0301950 A 20030218; JP 2004040037 A 20040217; US 78161004 A 20040218