

Title (en)

ELECTROMAGNET-EQUIPPED CONTROL DEVICE FOR AN INTERNAL COMBUSTION ENGINE VALVE

Title (de)

ELEKTROMAGNETISCHE STEUERVORRICHTUNG FÜR EIN VENTIL EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF DE COMMANDE A ELECTROAIMANT POUR UNE SOUPAPE DE MOTEUR A COMBUSTION INTERNE

Publication

EP 1774143 B1 20071003 (FR)

Application

EP 05717690 A 20050127

Priority

- FR 2005050051 W 20050127
- FR 0450152 A 20040127

Abstract (en)

[origin: US2008035093A1] The invention pertains to a device for controlling the opening and closing of an internal combustion engine valve. This device is characterized in that the magnetic circuit of the electromagnet and/or the plate contains a magnetic material having a remnant magnetization (F_p) when the valve is in position, the remnant magnetization (F_p) being reversible so as to be cancelled when the valve changes position and having a coercive field strength in the range of 10 Oe to 600 Oe.

IPC 8 full level

F01L 9/20 (2021.01); **H01F 1/032** (2006.01); **H01F 7/08** (2006.01); **H01F 7/121** (2006.01); **H01F 7/18** (2006.01); **H01F 1/03** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US); **H01F 7/081** (2013.01 - EP US); **F01L 2009/2148** (2021.01 - EP US); **F01L 2301/00** (2020.05 - EP US); **H01F 1/0306** (2013.01 - EP US); **H01F 7/1638** (2013.01 - EP US)

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)

US 2008035093 A1 20080214; US 7798110 B2 20100921; AT E374882 T1 20071015; DE 602005002752 D1 20071115; DE 602005002752 T2 20080612; EP 1774143 A1 20070418; EP 1774143 B1 20071003; ES 2290899 T3 20080216; FR 2865498 A1 20050729; FR 2865498 B1 20080425; WO 2005075796 A1 20050818

DOCDB simple family (application)

US 57831705 A 20050127; AT 05717690 T 20050127; DE 602005002752 T 20050127; EP 05717690 A 20050127; ES 05717690 T 20050127; FR 0450152 A 20040127; FR 2005050051 W 20050127