

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 A1 20070418 (FR)

Application
EP 05717690 A 20050127

Priority
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• 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 ($F_{\text{SUB}} > p_{\text{SUB}}$) when the valve is in position, the remnant magnetization ($F_{\text{SUB}} > p_{\text{SUB}}$) 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)

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Citation (search report)
See references of WO 2005075796A1

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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

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