

Title (en)

Valve drive control for internal combustion engine, and engine using the same

Title (de)

Ventilsteuerungseinrichtung in einem Brennkraftmaschine, und Brennkraftmaschine mit derselben

Title (fr)

Dispositif de commande de soupape pour moteur à combustion interne et moteur à combustion interne comprenant un tel dispositif

Publication

EP 1519012 A3 20080903 (FR)

Application

EP 04300611 A 20040917

Priority

FR 0350605 A 20030924

Abstract (en)

[origin: EP1519012A2] The device has a processor (501) for controlling a defluxing current circulating in a coil (507) of an electromagnet (506) of an electromechanical actuator (502), where the current generates a magnetic field opposite to the field of a magnet. The processor controls the defluxing current according to duration of opening of a valve (510) determined from engine parameters. The engine parameters are speed of motor, quantity of air input in concerned cylinder, an input gas pressure, rate of recycling of exhaust gas by the input gas and number of active input valves by cylinder. An independent claim is also included for an internal combustion engine.

IPC 8 full level

F01L 9/20 (2021.01)

CPC (source: EP US)

F01L 9/20 (2021.01 - EP US)

Citation (search report)

- [XY] FR 2784497 A1 20000414 - SAGEM [FR]
- [YA] EP 1010866 A2 20000621 - TOYOTA MOTOR CO LTD [JP]
- [XA] US 6279523 B1 20010828 - IIDA TATSUO [JP], et al

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 PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

EP 1519012 A2 20050330; EP 1519012 A3 20080903; EP 1519012 B1 20161116; FR 2860032 A1 20050325; FR 2860032 B1 20070720; US 2005081806 A1 20050421; US 7069886 B2 20060704

DOCDB simple family (application)

EP 04300611 A 20040917; FR 0350605 A 20030924; US 94768504 A 20040923