

Title (en)

DEVICE FOR CONTROLLING THE LIFT OF A GAS EXCHANGE VALVE IN AN INTERNAL COMBUSTION ENGINE

Title (de)

VORRICHTUNG ZUR REGELUNG DES HUBVERLAUFES EINES GASWECHSELVENTILS EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF POUR REGLER LA LEVEE D'UNE SOUPAPE DE CHANGEMENT DES GAZ D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1812692 B1 20110323 (DE)**

Application

**EP 05801994 A 20051019**

Priority

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- DE 102004054773 A 20041112

Abstract (en)

[origin: US7739986B2] A device and a method are provided for regulating the lift characteristic of a charge cycle valve of an internal combustion engine. The device comprises a controllable drive unit having an actuator element for actuating the charge cycle valve, two energy storage means acting on the charge cycle valve in opposite drive directions and a regulating means for controlling the drive unit. The regulating unit controls the drive unit according to a stored setpoint path, on the basis of which the charge cycle valve is transferred from a first end position into a second end position and vice versa. The setpoint path is designed so that it maps the ideal transient characteristic of the energy storage-drive element-energy storage system of the device without taking any additional ambient influences into account.

IPC 8 full level

**F01L 9/20** (2021.01); **F01L 1/08** (2006.01); **F01L 9/22** (2021.01)

CPC (source: EP US)

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