

Title (en)

DEVICE FOR THE VARIABLE ACTUATION OF GAS EXCHANGE VALVES OF INTERNAL COMBUSTION ENGINES AND METHOD FOR OPERATING SAID DEVICE

Title (de)

VORRICHTUNG ZUR VARIABLEN BET TIGUNG DER GASWECHSELVENTILE V ON VERBRENNUNGSMOTOREN UND VERFAHREN ZUM BETREIBEN EINER DERARTIGEN VORRICHTUNG

Title (fr)

DISPOSITIF D'ACTIONNEMENT VARIABLE DES SOUPAPES D'ECHANGE DES GAZ DE MOTEURS A COMBUSTION INTERNE ET PROCEDE PERMETTANT DE FAIRE FONCTIONNER UN DISPOSITIF DE CE TYPE

Publication

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Application

EP 04721188 A 20040317

Priority

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Abstract (en)

[origin: US2007000461A1] The invention is characterized in that the gas exchange valves of a cylinder are displaced in a displacement unit (15, 34) jointly and independently of the displacement of the displacement devices of the other cylinders. Every displacement unit (15, 34) is associated with separate actuators for actuating the same. Angle of rotation sensors (42, 43) are provided to detect the angle or rotation signals of the crankshaft and the camshaft or any other shaft rotating at half the crankshaft speed. These angle of rotation signals are used to derive the common idle phase of all valves of a cylinder to be jointly adjusted, a control unit (44) effecting the displacement of every displacement unit (15, 34) during said common idle phase.

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