

Title (en)

VARIABLE CONTROL PROCESS AND DEVICE FOR AN INTERNAL COMBUSTION ENGINE VALVE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VARIABLEN STEUERUNG EINES VENTILS EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF DE COMMANDE VARIABLE D'UNE SOUPAPE D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 0659232 B1 19960710 (DE)

Application

EP 94920391 A 19940706

Priority

- DE 9400786 W 19940706
- DE 4322480 A 19930706

Abstract (en)

[origin: WO9502116A1] A variable control process and device for an internal combustion engine valve are disclosed, in particular for the throttle-free power circuit control of a spark ignition engine by means of the lifting function of one or several inlet valves (6) per cylinder. The contours of two camshafts (1, 2) which normally turn at the same speed of rotation are scanned by a scanning arrangement (3) of the adder type and the displacement of the scanning arrangement (3) is transmitted to the valve by the actuating arrangement (4) in order to actuate the valve. The contour of one camshaft (1, 2) which acts as an opening camshaft (1) has a base area and a raised area which merge into each other in a closure area. In order to modify the lifting and/or opening time of the valve (6), the phase position between the camshafts (1, 2) is variable. The scanning arrangement (3) is held in contact with the contour of only one camshaft (2) after the valve (6) is closed, so that the actuating arrangement (4) is held in contact with the valve (6). The contour of the other camshaft (2) moves away from the scanning arrangement (3) after the valve (6) is closed and thus comes once again into contact with the scanning arrangement (3) when the valve (6) begins to open.

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DE 4322480 A1 19950112; **DE 4322480 C2 19960502**; CN 1046153 C 19991103; CN 1113393 A 19951213; DE 4446725 A1 19960111; DE 59400413 D1 19960814; EP 0659232 A1 19950628; EP 0659232 B1 19960710; ES 2092412 T3 19961116; JP 2838440 B2 19981216; JP H07509768 A 19951026; US 5592906 A 19970114; WO 9502116 A1 19950119

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DE 4322480 A 19930706; CN 94190595 A 19940706; DE 4446725 A 19941224; DE 59400413 T 19940706; DE 9400786 W 19940706; EP 94920391 A 19940706; ES 94920391 T 19940706; JP 50375595 A 19940706; US 39298395 A 19950303