

Title (en)

DRIVE AND DISPLACEMENT SYSTEM FOR VARIABLE VALVE-CONTROLLED DISTRIBUTION

Title (de)

ANTRIEBS- UND VERSTELLSYSTEM FÜR VARIABLE VENTILSTEUERUNGEN

Title (fr)

SYSTEME D'ENTRAÎNEMENT ET DE DÉPLACEMENT POUR COMMANDES À SOUPAPES VARIABLES

Publication

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Application

**EP 03725134 A 20030502**

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- EP 0304627 W 20030502

Abstract (en)

[origin: WO03095805A1] The invention concerns a drive and displacement system for mechanically variable valve-controlled distribution. Said system comprises drive levers which drive pivoting levers, actuating valves, via oscillating levers, such that the lifting of the valves and the opening time of the valves can be constantly adjusted, up to a permanent closing position of said valves, thereby enabling the use of said valve-controlled distribution for choke-free load control. The invention is characterized in that said pivoting levers (2) are driven by a drive lever (4), which is driven more or less in its center by a cam roller (13) or a contact surface. Said drive lever is urged to be engaged, at its upper end, with a control cam (11) of a drive camshaft (3) by means of a roller (12) or a contact surface, and then drives, with its lower end, said pivoting lever (2) via a revolute joint (5), said pivoting lever (2) being mounted on the drive camshaft (3) so as to be able to perform a rotational movement thereon. The driving of the pivoting lever (2) by means of a separate drive lever (4) provides mechanically variable valve-controlled distribution with simple and compact structure, said pre-assembled valve-controlled distribution capable being readily mounted in the cylinder head.

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