

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

**EP 1506345 B1 20051130 (DE)**

Application

**EP 03725134 A 20030502**

Priority

- DE 10221133 A 20020513
- 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.

IPC 1-7

**F01L 13/00**; F01L 1/04

IPC 8 full level

**F01L 1/18** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)

**F01L 1/18** (2013.01); **F01L 13/0021** (2013.01); **F01L 13/0063** (2013.01); **F01L 2013/0068** (2013.01)

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 PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 03095805 A1 20031120**; AT E311526 T1 20051215; AU 2003227706 A1 20031111; DE 10221133 A1 20031127; DE 50301810 D1 20060105; EP 1506345 A1 20050216; EP 1506345 B1 20051130

DOCDB simple family (application)

**EP 0304627 W 20030502**; AT 03725134 T 20030502; AU 2003227706 A 20030502; DE 10221133 A 20020513; DE 50301810 T 20030502; EP 03725134 A 20030502