

Title (en)

Device for varying the valve lift in an engine cylinder head

Title (de)

Vorrichtung zur Hubverstellung eines Gaswechselventils im Zylinderkopf einer Brennkraftmaschine

Title (fr)

Dispositif pour varier la levée d'une soupape dans la culasse d'un moteur à combustion interne

Publication

EP 1143118 A3 20021113 (DE)

Application

EP 01106205 A 20010314

Priority

DE 10017441 A 20000407

Abstract (en)

[origin: EP1143118A2] The device (1) has a transmission element (4) co-operating with the gas shuttle valve (2) and contacting a control track (6) of a pivot lever (7) that has an empty stroke curve (6') and a stroke curve (6''). The other lever end (8) contacts a cam disc (9) on a control shaft (10) that is controlled to rotate or be fixed in a cylinder head (3). A camshaft in the cylinder head parallel to the control shaft acts over a cam on a curve track at the pivot lever to operate the gas shuttle valve. The pivot lever is guided on one side during a cam-controlled pivot movement against a readjusting spring (13) over the lever end contacting the cam disc. The pivot lever is further guided on the other side over the control shaft with support surfaces (14) at shaft sections (15) of the control shaft on both sides of the cam disc to move slidably and co-operate with a pivot lever slideway (16). The support faces of the shaft section of the control shaft are spherical.

IPC 1-7

F01L 13/00

IPC 8 full level

F01L 13/00 (2006.01)

CPC (source: EP)

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

Citation (search report)

- [A] EP 0638706 A1 19950215 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] DE 19708484 A1 19980910 - BAYERISCHE MOTOREN WERKE AG [DE]

Cited by

EP1619360A4; EP1387049A1; EP1496211A1; DE102006018511A1; EP1619361A4; EP1760278A3; CN103502583A; EP1387050A1; GB2491939A; CN107956529A; EP1862649A1; CN105658918A; JP2017503949A; US7055478B2; WO2015110189A1; WO2012150052A1; WO2004057160A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1143118 A2 20011010; EP 1143118 A3 20021113; EP 1143118 B1 20030813; DE 10017441 A1 20011011; DE 50100476 D1 20030918; ES 2204773 T3 20040501

DOCDB simple family (application)

EP 01106205 A 20010314; DE 10017441 A 20000407; DE 50100476 T 20010314; ES 01106205 T 20010314