

Title (en)

Valve driving arrangement with variable lift for an internal combustion engine

Title (de)

Vorrichtung zur Betätigung eines Ventiles mit variablem Hub an Brennkraftmaschinen

Title (fr)

Dispositif de commande de soupape à levée variable pour moteur à combustion interne

Publication

EP 1050669 A3 20010516 (DE)

Application

EP 00108823 A 20000426

Priority

DE 19920512 A 19990505

Abstract (en)

[origin: EP1050669A2] The device is operating a valve with variable lift in an internal combustion engine. Two revolving and adjustable camshafts involved together with a valve activated by a closure spring, an axial tappet acting on the valve shaft end and an operating lev activated by both camshafts and affecting the cup tappet. The first camshaft (1) is arranged above the tappet (8) and is provided with an operating cam (4). The second camshaft (2) arranged above the first camshaft and is provided with an adjustment cam (13). The operating lever (14) is pivotably located at first end point (15) on the tappet and supports pivotably with the other end point (16) on a bearing (17) of a connecting part (Centrally, the operating lever is in effective connection with the operating cam (4) of the first camshaft. The connecting part extends crossways between the two camshafts and supports a roller (22) at its end opposite to the bearing.

IPC 1-7

F01L 13/00; **F01L 1/18**; **F01L 1/14**

IPC 8 full level

F01L 1/14 (2006.01); **F01L 1/18** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)

F01L 1/14 (2013.01); **F01L 1/143** (2013.01); **F01L 1/18** (2013.01); **F01L 13/0047** (2013.01); **F01L 2305/00** (2020.05)

Citation (search report)

- [A] DE 19600536 A1 19970710 - META MOTOREN ENERGIETECH [DE]
- [A] WO 9416202 A1 19940721 - META MOTOREN ENERGIETECH [DE], et al
- [A] DE 19702284 A1 19980730 - HOFFMANN JOSEF [DE]
- [A] EP 0909881 A2 19990421 - DAIMLER CHRYSLER AG [DE]
- [A] US 5373818 A 19941220 - UNGER HARALD [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 04 30 April 1996 (1996-04-30)

Cited by

CN102966391A; EP2163736A1; CN102061952A; EP1445434A1; WO2008008583A1; WO03016684A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1050669 A2 20001108; **EP 1050669 A3 20010516**; **EP 1050669 B1 20050126**; DE 19920512 A1 20001109; DE 50009324 D1 20050303

DOCDB simple family (application)

EP 00108823 A 20000426; DE 19920512 A 19990505; DE 50009324 T 20000426