

Title (en)

Device for modifying 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 de soupape dans une culasse de moteur à combustion interne

Publication

EP 1039103 A3 20010926 (DE)

Application

EP 00104801 A 20000306

Priority

DE 19913742 A 19990326

Abstract (en)

[origin: EP1039103A2] The device incorporates a pivot lever (7), which executes pivot movements due to a cam (12) and a return spring (14), and is guided by a link lever (16). This moves coaxially to the rotary axis (15) of the regulator shaft. Its link point on the pivot lever is defined by a crossing point of two circular arcs about the end points of a fictional curve of the rotary axis. With an imaginary four-bar linkage (a,b,c) with 'b' corresponding to the pivot lever, the fictional curve serves as kinematically equivalent replacement for the actual displacement of the cam disc (9) for the empty stroke curve. The end points (20,20') of this curve determine the centers of the fictional curve.

IPC 1-7

F01L 13/00

IPC 8 full level

F01L 13/00 (2006.01)

CPC (source: EP)

F01L 13/0063 (2013.01); **F01L 1/185** (2013.01); **F01L 1/2405** (2013.01); **F01L 2013/0068** (2013.01); **F01L 2305/00** (2020.05)

Citation (search report)

- [A] DE 2629554 A1 19780112 - DAIMLER BENZ AG
- [A] US 3422803 A 19690121 - STIVENDER DONALD L
- [A] DE 19532334 A1 19970306 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] DE 19708484 A1 19980910 - BAYERISCHE MOTOREN WERKE AG [DE]
- [A] EP 0311282 A2 19890412 - JAGUAR CARS [GB]
- [A] EP 0416794 A1 19910313 - JAGUAR CARS [GB]
- [A] GB 2171454 A 19860828 - SOUTH WESTERN IND RES

Cited by

EP1255027A1; FR2862083A1; EP1387048A3; CN100406691C; EP1619361A4; EP1619362A3; CN100439664C; CN1322227C; DE10122152A1; DE10122152B4; EP1387049A1; EP1710402A4; CN100385095C; CN107956527A; EP1496211A1; CN102678221A; DE10144988C1; EP1591632A3; DE10136336B4; US7111598B2; US8136491B2; US7055478B2; US6868811B2; WO2005052326A1; WO2004057160A1; WO2005078244A3; US7588003B2; US7367297B2; US7044094B2; US9091218B2; EP1561014B1; WO2007110174A1; WO03095805A1; WO2004059133A1; WO2012149921A3; WO2004085805A1; WO2004044392A1; US7281510B2; US7207306B2; US6792903B2; WO2013114041A1; WO03106818A1; WO03078802A1

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DOCDB simple family (application)

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