

Title (en)
FULLY VARIABLE MECHANICAL VALVE DRIVE MECHANISM FOR A PISTON-TYPE INTERNAL COMBUSTION ENGINE COMPRISING ADJUSTABLE VALVE PLAY COMPENSATION

Title (de)
VOLLVARIABLE MECHANISCHER VENTILTRIEB FÜR EINE KOLBENBRENNKRAFTMASCHINE MIT JUSTIERBAREM VENTILSPIELAUSGLEICH

Title (fr)
ENTRAÎNEMENT MÉCANIQUE DE SOUPAPE ENTIÈREMENT VARIABLE DESTINÉ À MOTEUR À COMBUSTION INTERNE À PISTON ALTERNATIF À ÉQUILIBRE DE JEU DE SOUPAPES RÉGLABLE

Publication
EP 1590554 A1 20051102 (DE)

Application
EP 04701291 A 20040110

Priority
• EP 2004000124 W 20040110
• DE 10303128 A 20030128

Abstract (en)
[origin: WO2004067924A1] The invention relates to a variably adjustable valve drive mechanism for at least one gas exchange valve (1) of a piston engine, especially a reciprocating internal combustion engine, said gas exchange valve (1) comprising a closing spring (2). The inventive valve drive mechanism is provided with a driving means (14) that acts upon a stroke-transmitting means (4) which is formed by several cooperating partial elements, affects the gas exchange valve (1) counter to the force of the closing spring (2), comprises an adjustable control element (12), and is effectively connected to a drag lever (5). The free end of said drag lever (5) rests on the shaft end (3) of the gas exchange valve (1) while the other end thereof is mounted on a play-compensating element (6) which forms a pivot bearing (6.1) and is disposed on the cylinder head. Said other end of the drag lever (5) is connected to a means (20) for adjusting the pivot bearing (9) relative to the stroke-transmitting means (4).

IPC 1-7
F01L 13/00; F01L 1/18; F01L 1/24

IPC 8 full level
F01L 1/24 (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP)
F01L 1/2405 (2013.01); **F01L 13/0005** (2013.01); **F01L 13/0063** (2013.01); **F01L 2013/0068** (2013.01); **F01L 2305/00** (2020.05)

Citation (search report)
See references of WO 2004067924A1

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 2004067924 A1 20040812; AT E421028 T1 20090115; CN 100460633 C 20090211; CN 1742152 A 20060301; DE 10303128 A1 20040729; DE 502004008865 D1 20090305; EP 1590554 A1 20051102; EP 1590554 B1 20090114

DOCDB simple family (application)
EP 2004000124 W 20040110; AT 04701291 T 20040110; CN 200480002614 A 20040110; DE 10303128 A 20030128; DE 502004008865 T 20040110; EP 04701291 A 20040110