

Title (en)

Valve drive with variable and independent control of the valve opening angle and of the valve lift

Title (de)

Ventiltrieb mit variabler und unabhängiger Steuerung des Ventilöffnungswinkels und des Ventilhubes

Title (fr)

Dispositif d'entraînement de soupape avec commande indépendante et variable de l'angle d'ouverture de soupape et de la levée de la soupape

Publication

EP 0686756 B1 19990922 (DE)

Application

EP 95106520 A 19950429

Priority

DE 4420064 A 19940608

Abstract (en)

[origin: EP0686756A1] The valve drive has a control device to vary the valve opening angle. A cam (2) on a camshaft (3) operates a gas exchange valve (4) via a valve lever (5) acting with an intermediate roller (9) via an axis (7) of the camshaft. There is a control device (11) to synchronise the control cam by altering the angle. The valve drive has variable lift control (13) in the form of a valve lever (5) of variable transmission ratio. This lift control can be operated separately from the control device (11) for varying the valve opening angle. The valve lever has a concentric guide track (8) for an intermediate element. <IMAGE>

IPC 1-7

F01L 13/00; F01L 1/26

IPC 8 full level

F01L 1/26 (2006.01); **F01L 13/00** (2006.01); **F02F 1/24** (2006.01); **F02F 1/42** (2006.01)

CPC (source: EP)

F01L 1/26 (2013.01); **F01L 13/0005** (2013.01); **F01L 13/0021** (2013.01); **F01L 13/0063** (2013.01); **F01L 2303/01** (2020.05); **F01L 2800/13** (2013.01); **F02F 1/4214** (2013.01); **F02F 2001/245** (2013.01)

Cited by

EP1619362A3; US5937809A; EP0962629A3; CN104136723A; EP1619362A2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0686756 A1 19951213; **EP 0686756 B1 19990922**; DE 4420064 A1 19951214; DE 59506871 D1 19991028; ES 2137396 T3 19991216

DOCDB simple family (application)

EP 95106520 A 19950429; DE 4420064 A 19940608; DE 59506871 T 19950429; ES 95106520 T 19950429