

Title (en)
VALVE DRIVE OF AN INTERNAL COMBUSTION ENGINE

Title (de)
VENTILTRIEB EINER BRENNKRAFTMASCHINE

Title (fr)
MECANISME DE COMMANDE DE SOUPAPE DE MOTEUR A COMBUSTION INTERNE

Publication
EP 1807609 A1 20070718 (DE)

Application
EP 05799247 A 20051012

Priority
• EP 2005010945 W 20051012
• DE 102004053202 A 20041104

Abstract (en)
[origin: WO2006048101A1] The invention relates to a valve drive (1) of an internal combustion engine which is used to actuate a gas exchange valve (6). Displacement thereof takes place when a cam (9) is lifted and when a hydraulic force applying device (12) is lifted. A piston (13) of the force applying device can be displaced from a first end position (A) to a second end position by leading a hydraulic medium, which can be pressure-adjusted, from a hydraulic medium line (24) into a pressure chamber (21). The pressure chamber (21) can be connected to the hydraulic medium line (24) by means of a shut-off element (20) which is open towards the pressure chamber (21) and which is arranged in the housing (15) and also by means of at least one passage (26) in the housing (15). The passage (26) is at least partially blocked by an external covering surface (16) of the piston (13) in the first end position (A) thereof.

IPC 8 full level
F01L 1/14 (2006.01); **F01L 1/24** (2006.01); **F01L 13/00** (2006.01); **F01L 13/06** (2006.01)

CPC (source: EP US)
F01L 1/143 (2013.01 - EP US); **F01L 1/2405** (2013.01 - EP US); **F01L 13/0031** (2013.01 - EP US); **F01L 13/06** (2013.01 - EP US);
F01L 2800/10 (2013.01 - EP US)

Citation (search report)
See references of WO 2006048101A1

Cited by
US11339688B2; WO2017012614A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 2006048101 A1 20060511; DE 102004053202 A1 20060601; EP 1807609 A1 20070718; EP 1807609 B1 20110824;
US 2009056653 A1 20090305; US 7617806 B2 20091117

DOCDB simple family (application)
EP 2005010945 W 20051012; DE 102004053202 A 20041104; EP 05799247 A 20051012; US 71866705 A 20051012