

Title (en)
MECHANICALLY CONTROLLABLE VALVE DRIVE

Title (de)
MECHANISCH STEUERBARER VENTILTRIEB

Title (fr)
MÉCANISME DE DISTRIBUTION À COMMANDE MÉCANIQUE

Publication
EP 3167168 B1 20190925 (DE)

Application
EP 15718934 A 20150430

Priority
• DE 102014109573 A 20140709
• EP 2015059524 W 20150430

Abstract (en)
[origin: WO2016005071A1] The invention relates to a mechanically controllable valve drive comprising a gas exchange valve (4). A transfer arrangement (5) is paired with the gas exchange valve (4), and the transfer arrangement (5) has an intermediate lever arrangement (6) and a drag lever arrangement (8). An intermediate lever (12) of the intermediate lever arrangement (6) has a working curve (24) for an operative connection to a drag lever (28) of the drag lever arrangement (8). The intermediate lever (12) has a first rolling element (14) which is operatively connected to a circumferential contour (16) of a camshaft (18), and the intermediate lever (12) has a second rolling element (20) which is rotatably mounted on an axle (22) such that the second rolling element (20) is operatively connected to a valve stroke adjusting device (10) such that different valve stroke positions can be set. Spring means are provided which engage onto the intermediate lever arrangement (6), and guiding means are provided for the intermediate lever arrangement. The guiding means (36) consist of a slotted guide (34) onto which at least one guide rolling element engages that is provided in the region of the second rolling element (20).

IPC 8 full level
F01L 13/00 (2006.01)

CPC (source: CN EP US)
F01L 1/047 (2013.01 - US); **F01L 1/18** (2013.01 - US); **F01L 1/185** (2013.01 - CN); **F01L 13/0063** (2013.01 - CN EP US); **F01L 1/185** (2013.01 - EP US); **F01L 2013/0068** (2013.01 - CN EP US); **F01L 2305/00** (2020.05 - CN EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2016005071 A1 20160114; CN 106489020 A 20170308; CN 106489020 B 20191001; DE 102014109573 A1 20160114; EP 3167168 A1 20170517; EP 3167168 B1 20190925; US 10851683 B2 20201201; US 2017198614 A1 20170713

DOCDB simple family (application)
EP 2015059524 W 20150430; CN 201580036791 A 20150430; DE 102014109573 A 20140709; EP 15718934 A 20150430; US 201515320753 A 20150430