

Title (en)
VALVE DRIVE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
VENTILTRIEB FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
COMMANDE DE SOUPAPE D'UN MOTEUR À COMBUSTION

Publication
EP 3222828 A3 20171018 (DE)

Application
EP 17158220 A 20170227

Priority
DE 102016204889 A 20160323

Abstract (en)
[origin: JP2017172587A] PROBLEM TO BE SOLVED: To disclose a configuration of a new valve train.SOLUTION: A valve train (1) for an internal combustion engine comprises a cam shaft (2); a cam follower (3); two first cams (4a, 4a) arranged to be spaced apart to each other in an axial direction at the cam shaft (2) so as to endure against torque and having the same first cam outer shapes (17a, 17b); and two second cams (4b, 4b) spaced apart to each other in an axial direction and arranged at the cam shaft (2) to have the same second cam outer shapes (17a, 17b) so as to endure against torque. The first and second cams (4a, 4b) are alternatively arranged in an axial direction at the cam shaft (2). The cam follower (3) can be adjusted in an axial direction between a first position where it is connected in driving to the first cam (4a) and a second position where it is connected in driving to the second cam (4b). The cam follower (3) has a mechanical adjustment device (7) cooperated with the cam shaft (2) so as to adjust the cam follower (3) in an axial direction between the first position and the second position.SELECTED DRAWING: Figure 1

IPC 8 full level
F01L 13/00 (2006.01); **F01L 1/053** (2006.01); **F01L 1/18** (2006.01)

CPC (source: CN EP US)
F01L 1/047 (2013.01 - US); **F01L 1/053** (2013.01 - EP US); **F01L 1/08** (2013.01 - US); **F01L 1/18** (2013.01 - EP US);
F01L 1/22 (2013.01 - US); **F01L 13/0036** (2013.01 - CN EP US); **F01L 2013/0052** (2013.01 - CN EP US); **F01L 2013/101** (2013.01 - EP US);
F01L 2305/00 (2020.05 - EP US)

Citation (search report)

- [XA] JP 2010249123 A 20101104 - OTICS CORP
- [XAI] DE 102011004680 A1 20110901 - HONDA MOTOR CO LTD [JP]
- [XA] DE 102010002495 A1 20101104 - HONDA MOTOR CO LTD [JP]
- [XA] JP S62711 U 19870106
- [XA] JP S62184115 U 19871121
- [A] JP H0674011 A 19940315 - MAZDA MOTOR
- [A] JP H05163971 A 19930629 - TOYOTA MOTOR CORP

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3222828 A2 20170927; EP 3222828 A3 20171018; CN 107227983 A 20171003; CN 107227983 B 20201106;
DE 102016204889 A1 20170928; JP 2017172587 A 20170928; JP 6793079 B2 20201202; US 10329963 B2 20190625;
US 2017276027 A1 20170928

DOCDB simple family (application)
EP 17158220 A 20170227; CN 201710174047 A 20170322; DE 102016204889 A 20160323; JP 2017057673 A 20170323;
US 201715466850 A 20170322