

Title (en)
VALVE DRIVE DEVICE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)
VENTILTRIEBVORRICHTUNG FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
SYSTÈME DE DISTRIBUTION POUR MOTEUR À COMBUSTION INTERNE

Publication
EP 3237730 A1 20171101 (DE)

Application
EP 15804071 A 20151202

Priority

- DE 102014019573 A 20141223
- EP 2015002421 W 20151202

Abstract (en)
[origin: WO2016102042A1] The invention relates to a valve drive device for an internal combustion engine, having an axially displaceable cam element (10) and having an adjusting device (11) which comprises a first engagement element (12) which is provided to displace the cam element (10) axially into a first switching position, and which comprises a second engagement element (13) which is provided to displace the cam element (10) axially into a second switching position, wherein the adjusting device (11) has a first slotted guide track (14), in which the first engagement element (12) is guided in the first switching position, and has a second slotted guide track (15), in which the second engagement element (13) is guided in the second switching position, wherein the first engagement element (12) is configured so as to be positively coupled to the second engagement element (13), and wherein the adjusting device (11) comprises a triggering device (16) which is provided to hold the first engagement element (12) fixedly in the second switching position counter to a restoring force, and to a method for axial displacement of a rotating cam element (10) from a first switching position into a second switching position, having an adjusting device (11), wherein a first engagement element (12) is positively coupled to a second engagement element (13), and wherein the first engagement element (12) is held fixedly in the second switching position by a triggering device (16) counter to a restoring force.

IPC 8 full level
F01L 1/04 (2006.01); **F01L 1/047** (2006.01); **F01L 13/00** (2006.01)

CPC (source: CN EP US)
F01L 1/04 (2013.01 - CN EP US); **F01L 1/047** (2013.01 - US); **F01L 13/0036** (2013.01 - CN EP US); **F01L 13/06** (2013.01 - US); **F01L 2001/0473** (2013.01 - CN EP US); **F01L 2013/0052** (2013.01 - CN EP US)

Citation (search report)
See references of WO 2016102042A1

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)
DE 102014019573 A1 20160623; CN 107109966 A 20170829; CN 107109966 B 20190705; EP 3237730 A1 20171101; EP 3237730 B1 20180926; JP 2017538067 A 20171221; JP 6357590 B2 20180711; US 10443454 B2 20191015; US 2017362964 A1 20171221; WO 2016102042 A1 20160630

DOCDB simple family (application)
DE 102014019573 A 20141223; CN 201580070164 A 20151202; EP 15804071 A 20151202; EP 2015002421 W 20151202; JP 2017531880 A 20151202; US 201515539053 A 20151202