

Title (en)

INTERNAL COMBUSTION ENGINE VALVE DRIVE DEVICE FOR A MOTOR VEHICLE

Title (de)

BRENNKRAFTMASCHINENVENTILTRIEBVORRICHTUNG FÜR EIN KRAFTFAHRZEUG

Title (fr)

DISPOSITIF DE COMMANDE DES SOUPAPES D'UN MOTEUR À COMBUSTION INTERNE POUR UN VÉHICULE

Publication

**EP 2721262 A1 20140423 (DE)**

Application

**EP 11805414 A 20111214**

Priority

- DE 102011104382 A 20110616
- EP 2011006300 W 20111214

Abstract (en)

[origin: WO2012171545A1] The invention relates to an internal combustion engine valve device for a motor vehicle, having at least one switching slotted guide (10a; 10b) which is provided for converting a rotational movement (11a; 11b) of at least one cam element (12a, 13a; 12b, 13b) into an axial movement (14a; 14b) of the at least one cam element (12a, 13a; 12b, 13b) for the purpose of lift switching, having at least one first actuator (15a; 15b) which is provided for axially displacing a first cam element (12a; 12b) in a switching direction (16a; 16b) by means of an operative connection to the switching slotted guide (10a; 10b), having a second actuator (17a; 17b) which is provided for axially displacing a second cam element (13a; 13b) in the same switching direction (16a; 16b) by means of an operative connection to the switching slotted guide (10a; 10b), and having a control and/or regulating unit (18a; 18b). It is proposed that the control and/or regulating unit (18a; 18b) is provided for activating and/or monitoring the at least two actuators (15a, 17a; 15b, 17b) simultaneously for the purpose of axially displacing the at least two cam elements (12a, 13a; 12b, 13b) in the same switching direction (16a; 16b).

IPC 8 full level

**F02D 13/02** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP US)

**F01L 13/0036** (2013.01 - EP US); **F02D 13/02** (2013.01 - US); **F01L 2013/0052** (2013.01 - EP US)

Citation (search report)

See references of WO 2012171545A1

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)

**DE 102011104382 A1 20121220**; CN 103608552 A 20140226; CN 103608552 B 20170517; EP 2721262 A1 20140423; EP 2721262 B1 20150304; JP 2014517200 A 20140717; US 2014102389 A1 20140417; US 9145835 B2 20150929; WO 2012171545 A1 20121220

DOCDB simple family (application)

**DE 102011104382 A 20110616**; CN 201180071675 A 20111214; EP 11805414 A 20111214; EP 2011006300 W 20111214; JP 2014515068 A 20111214; US 201314106750 A 20131214