

Title (en)

VALVE CONTROL FOR A GAS EXCHANGE VALVE OF A COMBUSTION ENGINE

Title (de)

VENTILSTEUERUNG FÜR EIN GASWECHSELVENTIL EINER BRENNKRAFTMASCHINE

Title (fr)

COMMANDE DE SOUPAPE POUR UNE SOUPAPE D'ÉCHANGE DE GAZ D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2837779 B1 20191016 (DE)

Application

EP 14002478 A 20140717

Priority

DE 102013013913 A 20130816

Abstract (en)

[origin: US2015075466A1] A valve control device for a gas exchange valve of an internal combustion engine has a cam follower lever interacting with the camshaft. A rocker arm rests on the cam follower lever and actuates the valve. An adjusting device acts on the rocker arm to adjust a valve lift. The rocker arm has first and second control surfaces with first and second radii of curvature, respectively. The cam follower lever has a third control surface with third radius of curvature. The first control surface contacts a fourth control surface of a guide element of the engine with fourth radius of curvature. The second control surface of the rocker arm contacts a valve element. The first to fourth radii of curvature are adjusted such that, when adjusting the valve lift, the valve does not open when the cam follower lever rests on a cam base circle section of the camshaft.

IPC 8 full level

F01L 1/18 (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP US)

F01L 1/185 (2013.01 - EP US); **F01L 13/0026** (2013.01 - EP US); **F01L 13/0063** (2013.01 - EP US); **F01L 2013/0068** (2013.01 - 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)

EP 2837779 A1 20150218; **EP 2837779 B1 20191016**; DE 102013013913 A1 20150219; US 2015075466 A1 20150319; US 9309791 B2 20160412

DOCDB simple family (application)

EP 14002478 A 20140717; DE 102013013913 A 20130816; US 201414460371 A 20140815