

Title (en)

Device and method for actuating at least one exhaust valve of a valve-controlled combustion engine

Title (de)

Vorrichtung und Verfahren zum Betätigen zumindest eines Auslassventils einer ventilsteuerten Brennkraftmaschine

Title (fr)

Dispositif et procédé d'actionnement d'au moins une soupape d'échappement d'un moteur à combustion interne commandé par soupape

Publication

EP 2902596 B1 20170329 (DE)

Application

EP 14003610 A 20141023

Priority

DE 102014001169 A 20140131

Abstract (en)

[origin: CN104819021A] The invention relates to an apparatus and method for operating at least one exhaust valve of a valve-controlled combustion engine, and specifically relates to the apparatus and method for operating at least one exhaust valve of the valve-controlled internal combustion engine for motor vehicles, in which, preferably in the force flow between a camshaft and at least one operating member acting on the exhaust valve actuator, at least one means is provided, by means of which the at least one outlet valve, particularly in an engine braking mode with exhaust back pressure, in a non-closed intermediate position is tenable. The invention is characterized in that the at least one means is formed by an integrated in the valve train stepping mechanism (9) which can be switched in a pulse-like actuation between regular valve actuation and at least one intermediate position, in particular, has an impulsive switchable character.

IPC 8 full level

F01L 13/06 (2006.01)

CPC (source: CN EP RU)

F01L 1/12 (2013.01 - RU); **F01L 13/06** (2013.01 - CN EP RU); **F02D 13/04** (2013.01 - RU); **F01L 13/08** (2013.01 - EP)

Cited by

WO2020088798A1; US11686224B2; US11898470B2

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 2902596 A1 20150805; **EP 2902596 B1 20170329**; BR 102014028290 A2 20160524; BR 102014028290 A8 20210824; BR 102014028290 B1 20220913; CN 104819021 A 20150805; CN 104819021 B 20181225; DE 102014001169 A1 20150806; RU 2014150757 A 20160710; RU 2014150757 A3 20180809; RU 2680899 C2 20190228

DOCDB simple family (application)

EP 14003610 A 20141023; BR 102014028290 A 20141113; CN 201510052624 A 20150202; DE 102014001169 A 20140131; RU 2014150757 A 20141215