

Title (en)

DEVICE FOR CONTROLLING THE RESIDUAL GAS CONTENT OF CYLINDERS OF AN INTERNAL COMBUSTION ENGINE

Title (de)

EINRICHTUNG ZUR STEUERUNG DES RESTGASGEHALTES VON ZYLINDERN EINER VERBRENNUNGSKRAFTMASCHINE

Title (fr)

DISPOSITIF POUR COMMANDER LA TENEUR EN GAZ RÉSIDUEL DE CYLINDRES D'UN MOTEUR À COMBUSTION INTERNE

Publication

EP 2209972 A1 20100728 (DE)

Application

EP 08835287 A 20081002

Priority

- DE 2008001595 W 20081002
- DE 102007047582 A 20071004

Abstract (en)

[origin: WO2009043331A1] The invention relates to a device for controlling the residual gas content of individual cylinders of an internal combustion engine having a mechanically fully variable valve train and throttle-free load control, and particularly a mechanically rigid valve train on the exhaust side, wherein an exhaust camshaft (1) has an asymmetrical arrangement of cams (2), wherein the cams (2) of individual special cylinders on the exhaust camshaft (1) have different cam structures (3) in order to adjust the residual gas content and are provided rotatably such that an exhaust spread (5) is reduced for cylinders having too high a residual gas content, or that an exhaust opening time of the individual cylinders can be adjusted such that the same quantity of residual gas is obtained in all cylinders.

IPC 8 full level

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

CPC (source: EP)

F01L 13/0005 (2013.01); **F01L 13/0021** (2013.01); **F01L 13/0026** (2013.01); **F02D 13/0242** (2013.01); **F02D 13/0261** (2013.01); **F02D 41/006** (2013.01); **F02D 41/008** (2013.01); **F02M 26/01** (2016.02); **F01L 2013/0068** (2013.01); **F01L 2800/08** (2013.01); **F02D 13/0253** (2013.01); **F02D 2013/005** (2013.01); **F02D 2041/001** (2013.01); **Y02T 10/12** (2013.01); **Y02T 10/40** (2013.01)

Citation (search report)

See references of WO 2009043331A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007047582 A1 20090409; DE 112008003352 A5 20100909; EP 2209972 A1 20100728; WO 2009043331 A1 20090409

DOCDB simple family (application)

DE 102007047582 A 20071004; DE 112008003352 T 20081002; DE 2008001595 W 20081002; EP 08835287 A 20081002