

Title (en)
Method to control intake and exhaust valves of an internal combustion engine, from which at least one cylinder can be shut down and engine controlled by that method

Title (de)
Verfahren zur Regelung der Ein- und Auslassventilsteuerung einer Brennkraftmaschine, bei welcher zumindest ein Zylinder abgeschaltet werden kann und Motor, der nach diesem Verfahren betrieben wird

Title (fr)
Moteur à combustion interne du type à fonctionnement dégradé d'au moins un cylindre

Publication
EP 2166198 A3 20100818 (FR)

Application
EP 09290661 A 20090831

Priority
FR 0805134 A 20080918

Abstract (en)
[origin: EP2166198A2] The method involves operating a cylinder with a cycle for low/average load of an internal combustion engine, where the cycle includes an intake phase (A), compression phase (CP), air-fuel mixture combustion phase (CB), combustion gas exhaust phase (E), combustion gas release phase (D) and released gas recompression phase (RC). The cylinder has a control unit for controlling opening/closing of intake and exhaust valves. An independent claim is also included for an internal combustion engine for implementing an intake and exhaust control method.

IPC 8 full level
F01L 1/18 (2006.01); **F01L 1/36** (2006.01); **F01L 13/00** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP US)
F01L 1/181 (2013.01 - EP US); **F01L 1/36** (2013.01 - EP US); **F01L 13/0036** (2013.01 - EP US); **F02B 75/021** (2013.01 - EP US); **Y10T 74/20882** (2015.01 - EP US); **Y10T 74/2107** (2015.01 - EP US)

Citation (search report)

- [X] US 4768475 A 19880906 - IKEMURA MAKOTO [JP]
- [XA] US 2006272598 A1 20061207 - WAKEMAN RUSSELL J [US]
- [X] JP S6184106 U 19860603
- [X] JP H0633718 A 19940208 - MITSUBISHI MOTORS CORP
- [A] FR 2560645 A1 19850906 - ALSACIENNE CONSTR MECA [FR], et al
- [A] DE 3317128 A1 19841108 - PAL LEONHARD JOHANN GERHARD [AU]

Cited by
US2017001625A1; US9789865B2

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2166198 A2 20100324; EP 2166198 A3 20100818; EP 2166198 B1 20141008; FR 2936021 A1 20100319; FR 2936021 B1 20130104; JP 2010071285 A 20100402; US 2010064994 A1 20100318; US 8261709 B2 20120911

DOCDB simple family (application)
EP 09290661 A 20090831; FR 0805134 A 20080918; JP 2009213022 A 20090915; US 56229909 A 20090918