

Title (en)

Self-ignited combustion engine with partial shut-down and method for operating such a combustion engine with optimised emissions

Title (de)

Selbstzündende Brennkraftmaschine mit Teilabschaltung und Verfahren zum emissionsoptimierten Betreiben einer derartigen Brennkraftmaschine

Title (fr)

Moteur à combustion à allumage automatique doté d'un arrêt sélectif et procédé de fonctionnement optimisant les émissions d'un tel moteur à combustion

Publication

EP 2657487 B1 20190403 (DE)

Application

EP 12165340 A 20120424

Priority

EP 12165340 A 20120424

Abstract (en)

[origin: EP2657487A1] The engine (10) has two groups in which each group is provided with two cylinders (30). One cylinder of first group is formed as the cylinder that can be switched in a load-dependent manner. The two groups are characterized by different compression ratios. The cylinder of a first group is provided with a lower compression ratio and the cylinder of a second group is provided with a higher compression ratio. The cylinder of the first group is in operation during the event of a partial deactivation in the lower portion-load range. An independent claim is included for a method for operation of an internal combustion engine.

IPC 8 full level

F02D 17/02 (2006.01); **F02B 73/00** (2006.01); **F02D 15/00** (2006.01); **F02D 41/00** (2006.01)

CPC (source: EP RU US)

F02D 15/00 (2013.01 - EP US); **F02D 17/02** (2013.01 - EP US); **F02D 41/0087** (2013.01 - EP US); **F02B 73/00** (2013.01 - EP US); **F02D 15/00** (2013.01 - RU); **F02D 17/02** (2013.01 - RU)

Citation (examination)

- WO 03067059 A1 20030814 - DAIMLER CHRYSLER AG [DE], et al
- US 5934263 A 19990810 - RUSS STEPHEN GEORGE [US], et al

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 2657487 A1 20131030; **EP 2657487 B1 20190403**; BR 102013009884 A2 20151117; CN 103375284 A 20131030; CN 103375284 B 20171208; RU 2013118712 A 20141027; RU 2635006 C2 20171108; US 2013276749 A1 20131024

DOCDB simple family (application)

EP 12165340 A 20120424; BR 102013009884 A 20130423; CN 201310146095 A 20130424; RU 2013118712 A 20130423; US 201313860448 A 20130410