Title (en)

METHOD FOR SWITCHING OFF A COMBUSTION ENGINE AND DEVICE FOR SAME

Title (de)

VERFAHREN ZUM ABSCHALTEN EINES VERBRENNUNGSMOTORS UND VORRICHTUNG HIERZU

Title (fr)

PROCÉDÉ D'ARRÊT D'UN MOTEUR À COMBUSTION INTERNE ET DISPOSITIF CORRESPONDANT

Publication

EP 3418514 B1 20210120 (DE)

Application

EP 18169446 A 20180426

Priority

DE 102017004781 A 20170518

Abstract (en)

[origin: CN108952876A] The invention relates to a method for switching off an internal combustion engine. The method includes initiating a shutdown process. The method includes reducing vibration of the internal combustionengine during the shutdown operation by switching actuation of a first exhaust valve (20) of the internal combustion engine by means of a sliding cam system (11) for opening or keeping open in the compression stroke and the exhaust stroke. Alternatively or additionally, the method comprises switching to an engine braking operation in which a first exhaust valve (20) of the internal combustion engine is initially kept closed in the compression stroke and/or exhaust stroke for compressing air and before a top dead center of a piston movement for decompression of the compressed air is opened.

IPC 8 full level

F01L 13/00 (2006.01); **F01L 1/18** (2006.01); **F01L 13/06** (2006.01)

CPC (source: CN EP RU)

F01L 1/047 (2013.01 - CN); **F01L 1/185** (2013.01 - EP RU); **F01L 13/0036** (2013.01 - EP RU); **F01L 13/065** (2013.01 - EP RU); **F01L 13/08** (2013.01 - CN); F01L 1/08 (2013.01 - EP); F01L 2013/0052 (2013.01 - EP); F01L 2013/101 (2013.01 - EP); F01L 2305/00 (2020.05 - EP); F01L 2800/03 (2013.01 - EP); F01L 2800/08 (2013.01 - EP); F01L 2810/03 (2013.01 - EP)

Citation (examination)

EP 2357340 A1 20110817 - HONDA MOTOR CO LTD [JP]

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)

DE 102017004781 A1 20181122; BR 102018009328 A2 20190409; BR 102018009328 A8 20230131; CN 108952876 A 20181207; CN 108952876 B 20220524; EP 3418514 A1 20181226; EP 3418514 B1 20210120; RU 2018118229 A 20191119; RU 2018118229 A3 20210820; RU 2757699 C2 20211020

DOCDB simple family (application)

DE 102017004781 A 20170518; BR 102018009328 A 20180508; CN 201810480049 A 20180518; EP 18169446 A 20180426; RU 2018118229 A 20180517