

Title (en)

Method for controlling the shut-down of a combustion engine

Title (de)

Verfahren zum kontrollierten Abstellen einer Brennkraftmaschine

Title (fr)

Procédé de contrôle de l'arrêt d'un moteur à combustion interne

Publication

**EP 1669576 A1 20060614 (DE)**

Application

**EP 04106259 A 20041203**

Priority

EP 04106259 A 20041203

Abstract (en)

The method involves controlling pressure within a cylinder independently of operation of an intake and exhaust valve by an auxiliary control valve to stop a crankshaft (13) in a position favorable for restarting. An energy of an internal combustion engine is determined when fuel and ignition is switched off, where the step of controlling pressure includes controlling pressure based on the energy of the engine. An independent claim is also included for a system for controlling stopping position of a crankshaft during shutdown of an internal combustion engine.

IPC 8 full level

**F02D 41/04** (2006.01); **F02D 15/00** (2006.01); **F02D 15/02** (2006.01); **F02D 15/04** (2006.01)

CPC (source: EP)

**F02B 75/048** (2013.01); **F02D 15/02** (2013.01); **F02D 41/042** (2013.01); **F02N 99/002** (2013.01); **F02D 35/02** (2013.01); **F02D 2041/0095** (2013.01); **F02N 11/0814** (2013.01); **F02N 19/005** (2013.01); **F02N 2019/008** (2013.01); **F02N 2300/104** (2013.01)

Citation (search report)

- [XY] US 2004144342 A1 20040729 - SIEBER UDO [DE], et al
- [X] EP 1439295 A2 20040721 - SIEMENS AG [DE]
- [Y] DE 10151505 A1 20020718 - FORD GLOBAL TECH DEARBORN [US]
- [Y] EP 1471233 A2 20041027 - TOYOTA MOTOR CO LTD [JP]
- [Y] DE 4227699 A1 19940224 - DAIMLER BENZ AG [DE]
- [Y] EP 1403488 A1 20040331 - HONDA MOTOR CO LTD [JP]
- [A] EP 1074713 A1 20010207 - RENAULT [FR]

Cited by

WO2020181310A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1669576 A1 20060614**

DOCDB simple family (application)

**EP 04106259 A 20041203**