

Title (en)

Internal combustion engine and method of stop position control

Title (de)

Brennkraftmaschine und Verfahren zum kontrollierten Abstellen einer Brennkraftmaschine

Title (fr)

Moteur à combustion interne et procédé pour le contrôle de l'arrêt du moteur

Publication

**EP 1657418 A1 20060517 (DE)**

Application

**EP 04105804 A 20041116**

Priority

EP 04105804 A 20041116

Abstract (en)

The internal combustion engine has a flywheel (4) installed on the crankshaft (1) and provided with a variable flywheel mass for the controlled shutting down and starting of the engine. The flywheel may have a continuously variable mass. The flywheel may have a modular construction consisting of two segments (2,3) which are interconnectable and separable from one another so that the flywheel mass is variable in at least two steps. At least one flywheel segment as a base segment (8) is inseparably connected to the crankshaft. An independent claim is included for a method for the controlled shutting down of an internal combustion engine in which the inertia of a flywheel is varied whereby influence is brought to bear on the run-out movement of the crankshaft.

IPC 8 full level

**F02D 41/04** (2006.01); **F02N 17/00** (2006.01); **F02N 99/00** (2010.01)

CPC (source: EP)

**F02D 41/042** (2013.01); **F02N 5/04** (2013.01); **F02N 99/006** (2013.01); **F02D 2041/0095** (2013.01)

Citation (applicant)

- DE 4230616 A1 19940317 - BOSCH GMBH ROBERT [DE]
- WO 0148373 A1 20010705 - BOSCH GMBH ROBERT [DE], et al
- WO 0144636 A2 20010621 - BOSCH GMBH ROBERT [DE], et al
- DE 10123037 A1 20021114 - BOSCH GMBH ROBERT [DE]

Citation (search report)

- [DA] DE 10123037 A1 20021114 - BOSCH GMBH ROBERT [DE]
- [DA] WO 0148373 A1 20010705 - BOSCH GMBH ROBERT [DE], et al
- [A] WO 9304278 A1 19930304 - MIKHALTSEV IGOR [FI], et al
- [A] US 2004159297 A1 20040819 - KATAOKA KENJI [JP], et al
- [A] WO 03012273 A2 20030213 - PEUGEOT CITROEN AUTOMOBILES SA [FR], et al
- [A] EP 1439295 A2 20040721 - SIEMENS AG [DE]
- [A] EP 1422420 A1 20040526 - FORD GLOBAL TECH INC [US]
- [A] US 6195985 B1 20010306 - DEL RE LUIGI [CH], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 02 28 February 1997 (1997-02-28)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

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