

Title (en)

Method and device for detecting the operating condition of a combustion engine

Title (de)

Verfahren und Vorrichtung zur Detektion des Betriebszustandes eines Verbrennungsmotors

Title (fr)

Procédé et dispositif destinés à la détection de l'état de fonctionnement de moteurs à combustion

Publication

**EP 2128629 A3 20180124 (DE)**

Application

**EP 09100184 A 20090313**

Priority

DE 102008001304 A 20080422

Abstract (en)

[origin: EP2128629A2] The method involves measuring an open-circuit voltage of an electrical system and detecting a sudden voltage drop in another electrical system. A voltage increase above the level of the open-circuit voltage up to a stable level of an operating voltage is detected for detecting operation of an internal combustion engine. An operating voltage is detected. A gradual voltage drop is detected over the period of more than a half second up to stable open-circuit voltages for detection of internal combustion engine provided in a resting condition. An independent claim is also included for an operating condition detecting device comprising a micro controller.

IPC 8 full level

**G01P 3/44** (2006.01); **H02J 7/14** (2006.01)

CPC (source: EP)

**F02N 11/0848** (2013.01); **G07C 5/085** (2013.01); **F02N 2200/063** (2013.01)

Citation (search report)

- [A] US 5599636 A 19970204 - BRAUN DIETER [DE]
- [A] WO 9854811 A1 19981203 - EUSTON HOLDINGS LIMITED [NZ], et al
- [A] US 5992365 A 19991130 - VILOU GERARD [FR]

Cited by

ITMI20121650A1

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**DE 102008001304 A1 20091029**; EP 2128629 A2 20091202; EP 2128629 A3 20180124; EP 2128629 B1 20190605

DOCDB simple family (application)

**DE 102008001304 A 20080422**; EP 09100184 A 20090313