

Title (en)

Method and device for producing electrical energy for a motor control device

Title (de)

Verfahren und Vorrichtung zur Bereitstellung elektrischer Energie für ein Motorsteuergerät

Title (fr)

Procédé et dispositif de préparation d'énergie électrique pour un appareil de commande de moteur

Publication

EP 2336549 A3 20160525 (DE)

Application

EP 10015653 A 20101215

Priority

DE 102009058971 A 20091218

Abstract (en)

[origin: EP2336549A2] The method involves providing a voltage source for the electric energy of the engine control unit (17). The electro-dynamic or photovoltaic electric energy is generated from the voltage source before starting the internal combustion engine. The energy is supplied to a rechargeable energy storage (16) arranged in the working unit and the stored energy is supplied to the engine control unit with a cable hub for starting the internal combustion engine. An independent claim is also included for a device for supplying electric energy for an engine control unit before starting an internal combustion engine by a cable pull in a hand-operated working unit.

IPC 8 full level

F02N 3/02 (2006.01); **F02N 5/02** (2006.01); **F02N 11/08** (2006.01); **F02P 1/08** (2006.01); **F02D 41/22** (2006.01)

CPC (source: EP US)

F02N 3/02 (2013.01 - EP US); **F02N 5/02** (2013.01 - EP US); **F02P 1/086** (2013.01 - EP US); **F02D 2041/228** (2013.01 - EP US); **F02D 2400/06** (2013.01 - EP US); **F02D 2400/14** (2013.01 - EP US); **F02N 11/0862** (2013.01 - EP US); **F02N 2011/0885** (2013.01 - EP US)

Citation (search report)

- [XY] DE 102005019762 A1 20061102 - STIHL AG & CO KG ANDREAS [DE]
- [I] EP 1696120 A1 20060830 - HONDA MOTOR CO LTD [JP]
- [Y] US 6371067 B1 20020416 - SCHMITZ JOHN J [US], et al
- [Y] US 2003144774 A1 20030731 - TRISSEL RONALD L [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 2336549 A2 20110622; **EP 2336549 A3 20160525**; CN 102118048 A 20110706; CN 102118048 B 20151202; DE 102009058971 A1 20110622; JP 2011127595 A 20110630; JP 5736163 B2 20150617; US 2011146611 A1 20110623; US 9068545 B2 20150630

DOCDB simple family (application)

EP 10015653 A 20101215; CN 201010613263 A 20101217; DE 102009058971 A 20091218; JP 2010274639 A 20101209; US 96964810 A 20101216