

Title (en)

METHOD FOR REGULATING THE OPERATION OF A DEVICE FOR GENERATING ELECTRIC ENERGY BY MEANS OF A GENERATOR DRIVEN BY A FREE-PISTON INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR REGELUNG DES BETRIEBS EINER EINRICHTUNG ZUR ERZEUGUNG ELEKTRISCHER ENERGIE DURCH EINEN MITTELS EINER FREIKOLBENBRENNKRAFTMASCHINE ANGETRIEBENEN GENERATOR

Title (fr)

PROCEDE POUR REGULER LE FONCTIONNEMENT D'UN DISPOSITIF POUR LA GENERATION D'ENERGIE ELECTRIQUE AU MOYEN D'UN GENERATEUR ENTRAINE PAR UN MOTEUR A COMBUSTION INTERNE A PISTON LIBRE

Publication

**EP 1534944 A1 20050601 (DE)**

Application

**EP 03793615 A 20030708**

Priority

- DE 10241101 A 20020903
- EP 0307330 W 20030708

Abstract (en)

[origin: WO2004022946A1] The invention relates to a method for regulating the operation of a device for generating electric energy. Said device comprises a generator with at least one stator winding that can be impinged by an electric voltage and at least one rotor and a two-stroke, free-piston internal combustion engine, provided with two coaxial cylinders arranged one behind the other and a pair of pistons per cylinder, the pistons of each pair working in opposition to one another. The invention is characterised in that the respective pistons of each pair that are displaced in the same direction are interconnected, said piston connections interacting with the rotor of the generator and that the electric voltage impingement of the stator winding and/or the fuel metering is regulated to maintain a predefinable compression ratio in the cylinders of the free-piston internal combustion engine.

IPC 1-7

**F02B 71/04**; **H02P 9/04**

IPC 8 full level

**F02B 71/06** (2006.01); **H02P 9/04** (2006.01)

CPC (source: EP US)

**F02B 71/06** (2013.01 - EP US); **H02P 9/04** (2013.01 - EP US); **F02B 63/041** (2013.01 - EP US)

Citation (search report)

See references of WO 2004022946A1

Cited by

CN113266464A

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**DE 10241101 A1 20040311**; AU 2003253039 A1 20040329; CN 100381684 C 20080416; CN 1678823 A 20051005; EP 1534944 A1 20050601; US 2005257757 A1 20051124; US 7116004 B2 20061003; WO 2004022946 A1 20040318

DOCDB simple family (application)

**DE 10241101 A 20020903**; AU 2003253039 A 20030708; CN 03820793 A 20030708; EP 0307330 W 20030708; EP 03793615 A 20030708; US 19091005 A 20050728