

Title (en)

AN ACTIVE RECTIFIER FOR PERMANENT MAGNET GENERATORS AND METHOD FOR GENERATING ELECTRIC ENERGY

Title (de)

AKTIVER GLEICHRICHTER FÜR PERMANENTMAGNETGENERATOREN UND VERFAHREN ZUR STROMERZEUGUNG

Title (fr)

REDRESSEUR ACTIF POUR GÉNÉRATEURS À AIMANT PERMANENT ET PROCÉDÉ DE GÉNÉRATION D'ÉNERGIE ÉLECTRIQUE

Publication

EP 2425523 A4 20170524 (EN)

Application

EP 09844112 A 20090427

Priority

SE 2009050437 W 20090427

Abstract (en)

[origin: WO2010126408A1] The invention relates to a device for generating electric energy, It includes a synchronous generator with permanent magnets. The rotor is connected to a mechanical power source of varying velocity. The device has electric connection means connecting the stator winding to a DC-connection (5) of substantially constant DC-level, The connection means includes a rectifier means (42), a capacitor (44) and pulse generating means (43) arranged to intermittently supply the current generated in the stator winding to the DC-connection (5). According to the invention, the pulse generating means (43) includes a repetitive switch (43) connected in parallel with each phase winding of the stator winding (23), The invention also relates to a method for generating electric energy.

IPC 8 full level

H02M 1/42 (2007.01); **H02M 7/155** (2006.01); **H02P 9/00** (2006.01); **H02P 9/30** (2006.01)

CPC (source: EP)

H02M 7/1552 (2013.01); **H02M 7/1555** (2013.01); **H02P 9/30** (2013.01); **H02P 2101/15** (2015.01)

Citation (search report)

- [IA] US 2003075997 A1 20030424 - KEIM THOMAS A [US], et al
- [A] US 2003071467 A1 20030417 - CALLEY DAVID GREGORY [US], et al
- See references of WO 2010126408A1

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

DOCDB simple family (publication)

WO 2010126408 A1 20101104; EP 2425523 A1 20120307; EP 2425523 A4 20170524

DOCDB simple family (application)

SE 2009050437 W 20090427; EP 09844112 A 20090427