

Title (en)

ELECTRICAL ENERGY GENERATING INSTALLATION DRIVEN AT VARIABLE ROTATIONAL SPEEDS, WITH A CONSTANT OUTPUT FREQUENCY, ESPECIALLY A WIND POWER INSTALLATION

Title (de)

DREHZAHLVARIABLE ANGETRIEBENE ELEKTRISCHE ENERGIEERZEUGUNGSANLAGE MIT KONstanTER AUSGANGSFREQUENZ, INSBESONDERE WINDKRAFTANLAGE

Title (fr)

INSTALLATION DE PRODUCTION D'ÉNERGIE ÉLECTRIQUE À VITESSE DE ROTATION VARIABLE, À FRÉQUENCE DE SORTIE CONSTANTE, EN PARTICULIER UNE ÉOLIENNE

Publication

EP 2422420 A1 20120229 (DE)

Application

EP 10718473 A 20100420

Priority

- EP 2010002407 W 20100420
- AT 6042009 A 20090420

Abstract (en)

[origin: WO2010121783A1] The invention relates to an energy generating installation, especially a wind power station, comprising a drive shaft connected to a rotor (1), a generator (8) and a differential transmission (11 to 13) provided with three drives or outputs. A first drive is connected to the drive shaft, an output is connected to a generator (8), and a second drive is connected to an electrical differential drive (6, 14). The differential drive (6, 14) is connected to a network (10) by means of a frequency converter (7, 15) comprising an electrical energy accumulator in the direct-current intermediate circuit.

IPC 8 full level

H02J 3/01 (2006.01); **F03D 9/00** (2006.01); **F03D 9/02** (2006.01); **F03D 11/02** (2006.01); **H02J 3/18** (2006.01)

CPC (source: EP KR US)

F03D 9/11 (2016.05 - EP KR US); **F03D 9/255** (2017.01 - EP KR US); **F03D 15/10** (2016.05 - US); **F03D 80/82** (2016.05 - KR); **H02J 3/01** (2013.01 - EP KR US); **H02J 3/1842** (2013.01 - EP KR US); **F05B 2260/76** (2013.01 - EP KR US); **Y02E 10/72** (2013.01 - EP KR US); **Y02E 10/76** (2013.01 - KR US); **Y02E 40/20** (2013.01 - EP KR US); **Y02E 40/40** (2013.01 - EP KR US); **Y02E 70/30** (2013.01 - EP)

Citation (search report)

See references of WO 2010121783A1

Citation (examination)

- DE 10335575 A1 20050317 - SIEMENS AG [DE]
- CASELITZ P ET AL: "Drehzahlvariable Windkraftanlagen mit elektrisch geregeltem Ueberlagerungsgetriebe", 1 January 1992, DEUTSCHES WINDENERGIE-INSTITUT -DEWI-, WILHELMSHAVEN: DEWEK '92. TAGUNGS,, PAGE(S) 171 - 175, XP009172672

Cited by

CN112366726A

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 SM TR

DOCDB simple family (publication)

WO 2010121783 A1 20101028; AT 508183 A1 20101115; AT 508183 B1 20110615; AU 2010238787 A1 20111201; AU 2010238787 B2 20150122; BR PI1009904 A2 20160315; CA 2759430 A1 20101028; CA 2759430 C 20180206; CN 102405572 A 20120404; CN 102405572 B 20151125; EP 2422420 A1 20120229; KR 20120018293 A 20120302; US 2012049807 A1 20120301; US 9728961 B2 20170808

DOCDB simple family (application)

EP 2010002407 W 20100420; AT 6042009 A 20090420; AU 2010238787 A 20100420; BR PI1009904 A 20100420; CA 2759430 A 20100420; CN 201080017362 A 20100420; EP 10718473 A 20100420; KR 20117024618 A 20100420; US 201013265053 A 20100420