

Title (en)
SYNCHRONOUS GENERATOR IN A GEARLESS WIND TURBINE

Title (de)
SYNCHRONGENERATOR EINER GETRIEBELOSEN WINDENERGIEANLAGE

Title (fr)
GÉNÉRATEUR SYNCHRONE D'UNE ÉOLIENNE À ENTRAÎNEMENT DIRECT

Publication
EP 3097627 A2 20161130 (DE)

Application
EP 14820778 A 20141211

Priority

- DE 102014200947 A 20140120
- EP 2014077392 W 20141211

Abstract (en)
[origin: WO2015106891A2] The invention relates to a synchronous generator (1), in particular a multi-pole synchronous ring generator (1) in a gearless wind turbine (101), for generating electricity, comprising a rotor (4) and a stator (6) with teeth (8) and intermediate grooves (10) for accommodating a stator winding, the stator (6) being subdivided, in the circumferential direction, into stator segments (31-34) that have a plurality of teeth (8) and grooves (10), at least two stator segments (31-34) being offset or staggered relative to one another in the circumferential direction.

IPC 8 full level
H02K 1/16 (2006.01); **H02K 7/18** (2006.01); **H02K 29/03** (2006.01)

CPC (source: CN EP KR RU US)
F03D 9/25 (2016.05 - KR); **H02K 1/12** (2013.01 - US); **H02K 1/14** (2013.01 - CN); **H02K 1/16** (2013.01 - RU);
H02K 1/165 (2013.01 - CN EP KR US); **H02K 1/24** (2013.01 - CN); **H02K 3/28** (2013.01 - CN); **H02K 5/24** (2013.01 - CN);
H02K 7/1838 (2013.01 - EP KR US); **H02K 11/049** (2016.01 - US); **H02K 15/022** (2013.01 - CN); **H02K 15/024** (2013.01 - CN);
H02K 19/16 (2013.01 - US); **H02K 29/03** (2013.01 - EP KR US); **H02K 2213/03** (2013.01 - EP KR US); **Y02E 10/72** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2015106891A2

Citation (examination)

- US 6864611 B1 20050308 - WOB BEN ALOYS [DE]
- EP 2403111 A1 20120104 - SIEMENS AG [DE]

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015106891 A2 20150723; WO 2015106891 A3 20150917; AR 099131 A1 20160629; AU 2014377432 A1 20160728;
AU 2014377432 B2 20180125; BR 112016016564 A2 20170808; CA 2936261 A1 20150723; CL 2016001816 A1 20161209;
CN 106415996 A 20170215; CN 106415996 B 20200403; DE 102014200947 A1 20150806; EP 3097627 A2 20161130;
JP 2017505103 A 20170209; JP 6291597 B2 20180314; KR 101879112 B1 20180716; KR 20160111475 A 20160926;
MX 2016009202 A 20161003; MX 358154 B 20180807; RU 2643778 C1 20180206; SG 11201605830Q A 20160929; TW 201541818 A 20151101;
TW I555309 B 20161021; US 2016336834 A1 20161117; ZA 201604562 B 20170927

DOCDB simple family (application)
EP 2014077392 W 20141211; AR P150100143 A 20150120; AU 2014377432 A 20141211; BR 112016016564 A 20141211;
CA 2936261 A 20141211; CL 2016001816 A 20160715; CN 201480073705 A 20141211; DE 102014200947 A 20140120;
EP 14820778 A 20141211; JP 2016564386 A 20141211; KR 20167022688 A 20141211; MX 2016009202 A 20141211;
RU 2016133756 A 20141211; SG 11201605830Q A 20141211; TW 103146130 A 20141229; US 201415112658 A 20141211;
ZA 201604562 A 20160705