

(43) International Publication Date
7 January 2010 (07.01.2010)(10) International Publication Number
WO 2010/000723 A3(51) International Patent Classification:
F03D 7/04 (2006.01)(21) International Application Number:
PCT/EP2009/058157(22) International Filing Date:
30 June 2009 (30.06.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2008 00913 30 June 2008 (30.06.2008) DK
61/076,944 30 June 2008 (30.06.2008) US(71) Applicant (for all designated States except US): **VES-TAS WIND SYSTEMS A/S** [DK/DK]; Alsvej 21, DK-8940 Randers SV (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NAYEBI, Kouroush** [DK/DK]; Nygade 22, DK-7340 Ikast (DK). **HERBSLEB, Eik** [DK/DK]; Uldhøjs Ager 2, DK-8300 Odder (DK).(74) Agent: **JOHANSSON, Magnus**; Awapatent AB, Box 1066, S-251 10 Helsingborg (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: A METHOD OF CONTROLLING A WIND POWER PLANT

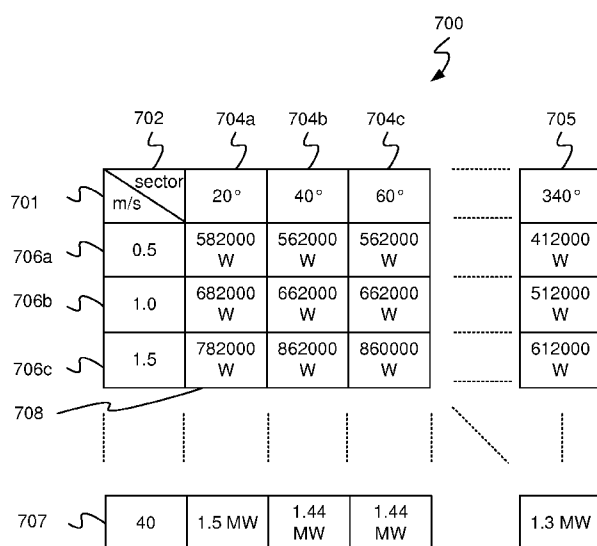


Fig. 7

(57) Abstract: It is presented a method for controlling the instantaneous power output from a wind power plant. Wind speed and wind directions are determined, wherein an upper limit power output for the specific wind speed and wind direction is determined from a previously measured power output value at the same wind speed and wind direction, and wherein the power output of the wind power plant is controlled based on the determined upper limit power output. A wind power plant is also presented.



(88) Date of publication of the international search report:

27 May 2010

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/058157

A. CLASSIFICATION OF SUBJECT MATTER

INV. F03D7/04

ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F03D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/127862 A1 (WEITKAMP ROLAND [DE]) 10 July 2003 (2003-07-10) paragraphs [0011], [0012], [0017]; figure 1	1-30
X	EP 1 918 581 A2 (GEN ELECTRIC [US]) 7 May 2008 (2008-05-07) paragraph [0028]; figures 3,5	1-30
X	EP 1 672 778 A2 (GEN ELECTRIC [US]) 21 June 2006 (2006-06-21) figures 1-5	1-30
X	WO 01/33075 A1 (VESTAS WIND SYS AS [DK]; REBSDORF ANDERS VARMINING [DK]) 10 May 2001 (2001-05-10) page 5, line 20 - line 25; figures 1-3	1-30
	----- -/-- -----	

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

6 April 2010

Date of mailing of the international search report

12/04/2010

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Avramidis, Pavlos

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/058157

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 20 2006 015047 U1 (KLOTSCH MICHAEL [DE]) 7 December 2006 (2006-12-07) paragraph [0008] - paragraph [0012]; figure 1 -----	1-30
X	US 2007/090651 A1 (WOBEN ALOYS [DE]) 26 April 2007 (2007-04-26) figures 4,5 -----	1,18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2009/058157

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003127862 A1	10-07-2003	NONE	
EP 1918581 A2	07-05-2008	CN 101169103 A US 2008112807 A1	30-04-2008 15-05-2008
EP 1672778 A2	21-06-2006	CA 2529336 A1 JP 2006170208 A US 2006132994 A1	17-06-2006 29-06-2006 22-06-2006
WO 0133075 A1	10-05-2001	AT 275240 T AU 768212 B2 DE 69919910 D1 DE 69919910 T2 DK 1230479 T3 EP 1230479 A1 ES 2228121 T3 US 6619918 B1	15-09-2004 04-12-2003 07-10-2004 08-09-2005 10-01-2005 14-08-2002 01-04-2005 16-09-2003
DE 202006015047 U1	07-12-2006	NONE	
US 2007090651 A1	26-04-2007	NONE	