

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 July 2009 (02.07.2009)

PCT

(10) International Publication Number
WO 2009/080048 A3

(51) International Patent Classification:
F03D 11/00 (2006.01)

(21) International Application Number:
PCT/DK2008/050328

(22) International Filing Date:
19 December 2008 (19.12.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2007 01840 20 December 2007 (20.12.2007) DK
61/009,053 20 December 2007 (20.12.2007) US
PA 2007 01860 21 December 2007 (21.12.2007) DK
61/008,701 21 December 2007 (21.12.2007) US

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(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, 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, 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, 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))

(88) Date of publication of the international search report:
11 March 2010

(54) Title: LIGHTNING RECEPTORS COMPRISING CARBON NANOTUBES

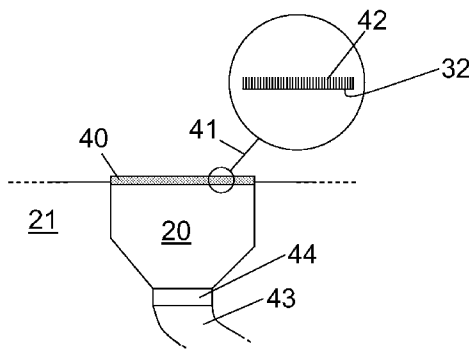


FIG. 4

(57) Abstract: The present invention relates to a wind turbine rotor blade comprising a lightning protection system. The lightning protection system comprises a lightning receptor for capturing lightning strikes. The receptors are arranged in the rotor blade. The lightning receptors comprise carbon nanotubes. In embodiments, the nanotubes are at an exterior surface is provided with a layer of carbon nanotubes and/or at least part of the lightning receptor is of a carbon nanotube metal composite material, such as a carbon nanotube metal matrix composite material. Moreover, the exterior surface of the receptor may in embodiments be provided with one or more electric field enhancing protrusions.



WO 2009/080048 A3

INTERNATIONAL SEARCH REPORT

International application No

PCT/DK2008/050328

A. CLASSIFICATION OF SUBJECT MATTER

INV. F03D11/00

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 H01C H02G

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

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Date of the actual completion of the international search

18 January 2010

Date of mailing of the international search report

26/01/2010

Name and mailing address of the ISA/

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International application No

PCT/DK2008/050328

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International application No

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