

- (51) International Patent Classification:**
F03D 11/00 (2006.01) *F16H 57/08* (2006.01)
F03D 11/02 (2006.01)

- (21) International Application Number:** PCT/DK2008/000369

- (22) **International Filing Date:** 21 October 2008 (21.10.2008)

- (25) **Filing Language:** English

- (26) **Publication Language:** English

- (30) Priority Data:**
- | | | |
|---------------|-------------------------------|----|
| PA 2007 01514 | 22 October 2007 (22.10.2007) | DK |
| PA 2007 01856 | 21 December 2007 (21.12.2007) | DK |
| 61/015,799 | 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,

[Continued on next page]

- (54) Title:** EPICYCLIC GEAR STAGE FOR A WIND TURBINE GEARBOX, A WIND TURBINE GEARBOX AND A WIND TURBINE

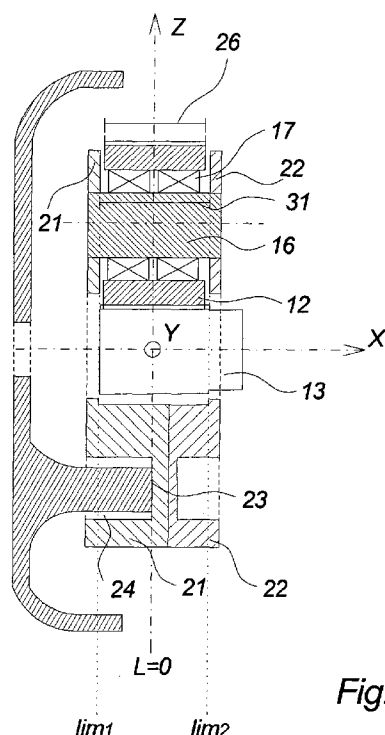


Fig. 6

- (57) Abstract:** The invention relates to an epicyclic gear stage for a wind turbine gearbox comprising a sun gear, at least two planet gears, engaged with said sun gear, an annulus gear, a first planet carrier flange connected to one side of at least two of said planet gears, and a second planet carrier flange connected to the other side of least two of said planet gears. Torque from the wind turbine rotor is transferred via a torque transfer part connected to at least one of said first and second planet carrier flanges at one or more torque transferring zones and said one or more torque transferring zones are located between a first and a second plane, said planes being substantially perpendicular to an axis of rotation of the sun gear. Furthermore the first plane is flush with an inner side of the first planet carrier at a position where the gear shaft is carried by the first planet carrier, and the second plane is flush with an inner side of the second planet carrier at a position where the gear shaft is carried by the second planet carrier. The invention further relates to a wind turbine gearbox and a wind turbine.



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).

— *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))*

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

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

12 November 2009

Published:

— *with international search report (Art. 21(3))*

INTERNATIONAL SEARCH REPORT

International application No
PCT/DK2008/000369

A. CLASSIFICATION OF SUBJECT MATTER

INV. F03D11/00 F03D11/02 F16H57/08

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 F16H

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.
A	EP 1 544 504 A (WINERGY AG [DE]) 22 June 2005 (2005-06-22) the whole document -----	1
A	WO 2007/016336 A (TIMKEN CO [US]; FOX GERALD [US]) 8 February 2007 (2007-02-08) the whole document -----	1
A	EP 1 538 332 A (REPOWER SYSTEMS AG [DE]) 8 June 2005 (2005-06-08) the whole document -----	1
A	WO 2005/050059 A (HANSEN TRANSMISSIONS INT [BE]; SMOOK WARREN [BE]; BOGAERT ROGER [BE]) 2 June 2005 (2005-06-02) the whole document -----	1

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

☒ See patent family annex.

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Date of the actual completion of the international search

24 September 2009

Date of mailing of the international search report

01/10/2009

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INTERNATIONAL SEARCH REPORT

International application No
PCT/DK2008/000369

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