

Title (en)
DRIVE ASSEMBLY

Title (de)
ANTRIEBSANORDNUNG

Title (fr)
ENSEMBLE D'ENTRAINEMENT

Publication
EP 1423608 A1 20040602 (EN)

Application
EP 02767773 A 20020801

Priority
• GB 0118996 A 20010803
• IB 0203672 W 20020801

Abstract (en)
[origin: WO03014567A1] A drive assembly for a wind turbine (10) comprises a rotor hub (14), supporting structure such as a turbine nacelle (15), a planetary type gear transmission unit comprising sun (27), planet (25) and ring gears (63) and a planet carrier (28), said ring gear being non-rotatably secured to said supporting structure (64), a main bearing (66) which is a double taper bearing and rotatably supports the rotor hub (14) relative to said ring gear (63) and supporting structure (64), and said drive assembly comprising two substantially independent force transmission paths for transmission of forces reacting with forces exerted by the wind turbine rotor hub (14), a first of said force transmission paths acting from the rotor hub (14) via said main bearing (66) to the supporting structure (64) primarily for transmission of overhang load forces and bending moment forces and a second of said force transmission paths acting from the rotor hub (14) via said planet carrier (28) primarily for transmission of rotational forces.

IPC 1-7
F03D 11/00; F03D 11/02

IPC 8 full level
F03D 11/02 (2006.01)

CPC (source: EP US)
F03D 15/00 (2016.05 - EP US); **F03D 15/10** (2016.05 - US); **F03D 80/70** (2016.05 - EP US); **F16H 1/28** (2013.01 - EP US); **F05B 2260/40311** (2013.01 - EP US); **F16H 2001/289** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03014567 A1 20030220; EP 1423608 A1 20040602; GB 0118996 D0 20010926; US 2004213671 A1 20041028

DOCDB simple family (application)
IB 0203672 W 20020801; EP 02767773 A 20020801; GB 0118996 A 20010803; US 48556304 A 20040607