

Title (en)
BEARING ARRANGEMENT FOR A WIND TURBINE

Title (de)
LAGERANORDNUNG FÜR EINE WINDTURBINE

Title (fr)
ENSEMBLE PALIER POUR ÉOLIENNE

Publication
EP 2153066 A2 20100217 (DE)

Application
EP 08758987 A 20080603

Priority

- EP 2008004426 W 20080603
- EP 07090108 A 20070604
- DE 102007056763 A 20071123
- EP 08758987 A 20080603

Abstract (en)
[origin: WO2008148526A2] The invention relates to a bearing arrangement, especially for a wind turbine, for transmitting radial and axial forces, two bearing partners being provided that are twistable relative to one another about an axis. The bearing partners each comprise a support area, between which a bearing block is arranged to be insertable in an actuating direction in order to generate a normal force that acts upon the support areas. The bearing block is connected in a rotationally fixed manner to one of the bearing partners. The aim of the invention is to design an improved bearing arrangement which overcomes the drawbacks of the prior art. In particular, the aim is to design a wear-resistant and maintenance-friendly bearing arrangement for an azimuth bearing of a wind turbine. Furthermore, an optional aim of the invention is to make it possible to simultaneously use the bearing arrangement as an active brake. Said aim is achieved by the features of independent claim 1, according to which a friction lining is disposed between the bearing block and the bearing partner that can be twisted relative to the bearing block. For the first time, this design makes it possible to represent a support of a bearing ring and a bearing rim, the bearing clearance being easy to adjust.

IPC 8 full level
F03D 11/00 (2006.01)

CPC (source: EP US)
F03D 80/70 (2016.05 - EP US); **F16C 17/10** (2013.01 - EP US); **F16C 41/001** (2013.01 - EP US); **F05B 2260/90** (2013.01 - EP US); **F05B 2260/902** (2013.01 - EP US); **F05B 2280/501** (2013.01 - EP US); **F05C 2251/14** (2013.01 - EP US); **F16C 2300/14** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US)

Citation (search report)
See references of WO 2008148526A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2008148526 A2 20081211; **WO 2008148526 A3 20090205**; AU 2008258839 A1 20081211; AU 2008258839 A2 20100218; CN 101711312 A 20100519; EP 2153066 A2 20100217; US 2010176601 A1 20100715

DOCDB simple family (application)
EP 2008004426 W 20080603; AU 2008258839 A 20080603; CN 200880018613 A 20080603; EP 08758987 A 20080603; US 60222408 A 20080603