

Title (en)
HOISTING DEVICE FOR A WIND TURBINE

Title (de)
HUBVORRICHTUNG FÜR EINE WINDTURBINE

Title (fr)
DISPOSITIF DE LEVAGE POUR ÉOLIENNE

Publication
EP 2329138 A2 20110608 (DE)

Application
EP 09748963 A 20090914

Priority
• EP 2009006641 W 20090914
• DE 102008047769 A 20080917

Abstract (en)
[origin: WO2010031528A2] The invention relates to a hoisting device for a wind turbine, said device being movable on a support track in a machine housing of the wind turbine. The machine housing is rotatably mounted on a tower and supports a rotor and a drive train. Suitable crane systems are needed to supply the required means and tools to the machine housing for servicing and repair purposes. Up to now, chain hoists have been used for small to medium-sized loads, up to approx. 1 tonne, the hooks of which hoists can be lowered through a hatch in the floor of the machine housing. This allows replacement parts, such as a drive motor for the azimuth bearing to be hoisted from the floor into the machine housing. One disadvantage is that the size of the useful load is limited by the size of the floor hatch. The aim of the invention is to provide an improved hoisting device for a wind turbine and an improved wind turbine, which have none of the disadvantages of prior art. The aim is achieved by the features of main claim 1, wherein the hoisting device for the wind turbine is provided on the support track in a machine housing of the wind turbine. The support track of the hoisting device runs completely within the machine housing and comprises a roller mechanism and a load arm. The load arm and roller mechanism are designed in such a way that the load arm projects through a substantially vertical wall of the machine housing.

IPC 8 full level
F03D 1/00 (2006.01)

CPC (source: EP US)
B66C 17/06 (2013.01 - EP); **B66C 23/207** (2013.01 - EP); **F03D 13/20** (2016.05 - EP); **F03D 13/40** (2016.05 - EP US); **F03D 80/50** (2016.05 - EP US); **F05B 2240/916** (2013.01 - EP); **Y02E 10/72** (2013.01 - EP); **Y02E 10/728** (2013.01 - EP)

Citation (search report)
See references of WO 2010031528A2

Citation (examination)
DE 9004216 U1 19900719

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2010031528 A2 20100325; **WO 2010031528 A3 20101021**; DE 102008047769 A1 20100415; DE 102008047769 B4 20130411; EP 2329138 A2 20110608

DOCDB simple family (application)
EP 2009006641 W 20090914; DE 102008047769 A 20080917; EP 09748963 A 20090914