

Title (en)

LIFTING SYSTEM AND APPARATUS FOR CONSTRUCTING AND ENCLOSING WIND TURBINE TOWERS

Title (de)

HEBESYSTEM UND -VORRICHTUNG ZUR KONSTRUKTION UND EINSCHLIESSUNG VON WINDTURBINENTÜRMEN

Title (fr)

SYSTÈME DE LEVAGE ET APPAREIL DESTINÉ À CONSTRUIRE ET À PROTÉGER DES TOURS DE TURBINE ÉOLIENNE

Publication

EP 2069591 A4 20101201 (EN)

Application

EP 07872185 A 20071002

Priority

- US 2007021250 W 20071002
- US 84872506 P 20061002
- US 84872606 P 20061002
- US 64903307 A 20070103
- US 93273107 P 20070601

Abstract (en)

[origin: WO2008088408A2] An apparatus and method for mounting a wind turbine and blade assembly on the upper end of a wind turbine tower. In one aspect the apparatus generally includes a ginpole that is used to assemble the tower and a lifting frame or truss that is removably secured to a top bay assembly of the tower using the ginpole. The lifting frame or truss is operated using either cables or hydraulic rams and extends fore of the tower when the frame or truss is in a first position and generally above the tower when in a second position. When in the first position, a wind turbine or blade assembly can be hoisted to the top of the tower. The wind turbine or blade assembly is then moved into position for mounting to the tower as the frame or truss is pivoted to a second position. When the turbine and blade assembly are secured to the tower, the frame or truss is disconnected from the tower and lowered to the ground followed by the ginpole being lowered to the ground.

IPC 8 full level

E04H 12/00 (2006.01); **F03D 11/04** (2006.01)

CPC (source: EP US)

F03D 1/00 (2013.01 - EP); **F03D 13/10** (2016.05 - EP US); **F03D 13/20** (2016.05 - EP US); **F05B 2240/14** (2013.01 - EP); **F05B 2240/9121** (2013.01 - EP); **F05B 2240/916** (2013.01 - EP); **Y02E 10/72** (2013.01 - EP); **Y02E 10/728** (2013.01 - EP)

Citation (search report)

- [I] WO 03083236 A1 20031009 - SILBER MEIR [HU]
- See references of WO 2008088408A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008088408 A2 20080724; **WO 2008088408 A3 20081120**; CA 2663754 A1 20080724; CA 2663754 C 20141202; EP 2069591 A2 20090617; EP 2069591 A4 20101201

DOCDB simple family (application)

US 2007021250 W 20071002; CA 2663754 A 20071002; EP 07872185 A 20071002