

Title (en)

A WIND TURBINE BLADE INSTALLATION METHOD

Title (de)

VERFAHREN ZUR MONTAGE EINER WINDTURBINE

Title (fr)

PROCÉDÉ D'INSTALLATION D'UNE PALE D'ÉOLIENNE

Publication

**EP 4115080 A1 20230111 (EN)**

Application

**EP 21710401 A 20210302**

Priority

- EP 20161006 A 20200304
- DK 2021050064 W 20210302

Abstract (en)

[origin: EP3875753A1] The invention provides a method for installation of a blade (11) of a horizontal axis wind turbine (1), the method comprising- providing a nacelle (15) for the wind turbine, and a rotor hub (18) mounted to the nacelle,- mounting a blade guide device (4) to the nacelle (15),- supporting the weight of the blade (11) with lifting means (3),- moving the blade (11) towards the hub (18) by means of the lifting means (3), while the weight of the blade is supported by the lifting means,- bringing, while the weight of the blade (11) is supported by the lifting means (3), the blade and the blade guide device (4) into contact with each other, and- bringing, with the blade (11) and the blade guide device (4) in contact with each other, the blade into a mounting position in which it is fastened to the hub (18),- characterised by, after the blade (11) and the blade guide device (4) having been brought into contact with each other, supporting the weight of the blade by the lifting means (3) and the blade guide device (4).

IPC 8 full level

**F03D 13/10** (2016.01); **F03D 1/06** (2006.01)

CPC (source: EP)

**F03D 1/0658** (2013.01); **F03D 13/10** (2016.05); **F05B 2230/61** (2013.01); **F05B 2240/916** (2013.01); **Y02E 10/728** (2013.01)

Citation (search report)

See references of WO 2021175399A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 3875753 A1 20210908**; **EP 3875753 B1 20220824**; EP 4115080 A1 20230111; WO 2021175399 A1 20210910

DOCDB simple family (application)

**EP 20161006 A 20200304**; DK 2021050064 W 20210302; EP 21710401 A 20210302