

Title (en)

WIND TURBINE WITH BRAKE DEVICE AND METHOD FOR OPERATING SAME

Title (de)

WINDENERGIEANLAGE MIT BREMSEINRICHTUNG SOWIE VERFAHREN ZUM BETREIBEN DERSELBEN

Title (fr)

ÉOLIENNE COMPRENANT UN SYSTÈME DE FREINAGE AINSI QUE PROCÉDÉ DE FONCTIONNEMENT DE CETTE ÉOLIENNE

Publication

**EP 3542053 A1 20190925 (DE)**

Application

**EP 17797950 A 20171115**

Priority

- DE 102016013796 A 20161121
- EP 2017079267 W 20171115

Abstract (en)

[origin: WO2018091497A1] The invention relates to a wind turbine (2) and to a method for operating same. The wind turbine (2) comprises a rotor (4) and a brake device (20). The brake device (20) comprises a mechanical brake mechanism (22) which is mechanically coupled to the rotor. The brake device (20) comprises at least an electric and/or hydraulic switching element (24) for activating and/or deactivating the brake mechanism (22), and the switching element (24) is redundant and/or is designed to be fail-safe. Furthermore, a controller (26) is provided which is designed to receive an interference signal (S) and activate the switching element (24) in response to the received interference signal (S), thereby activating the brake mechanism (22). The brake mechanism (22) is deactivated by means of the switching element (24) before the rotor (4) of the wind turbine comes to a standstill.

IPC 8 full level

**F03D 7/02** (2006.01)

CPC (source: EP)

**F03D 7/0248** (2013.01); **F03D 7/0264** (2013.01); **F03D 7/0272** (2013.01); **F05B 2260/845** (2013.01); **F05B 2260/902** (2013.01); **F05B 2270/107** (2013.01); **F05B 2270/303** (2013.01); **F05B 2270/3032** (2013.01); **F05B 2270/506** (2013.01); **Y02E 10/72** (2013.01)

Citation (search report)

See references of WO 2018091497A1

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

DOCDB simple family (publication)

**WO 2018091497 A1 20180524**; CN 110168219 A 20190823; DE 102016013796 A1 20180524; EP 3542053 A1 20190925

DOCDB simple family (application)

**EP 2017079267 W 20171115**; CN 201780083247 A 20171115; DE 102016013796 A 20161121; EP 17797950 A 20171115