

Title (en)

FLEXIBLE EXTENSION FOR WIND TURBINE ROTOR BLADES

Title (de)

FLEXIBLE VERLÄNGERUNG FÜR WINDTURBINENROTORBLÄTTER

Title (fr)

EXTENSION FLEXIBLE POUR PALES DE ROTOR D'ÉOLIENNE

Publication

**EP 3788252 A4 20220525 (EN)**

Application

**EP 18917237 A 20180504**

Priority

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Abstract (en)

[origin: WO2019212560A1] The present disclosure is directed to a rotor blade assembly for a wind turbine. The rotor blade assembly includes a rotor blade having surfaces defining a pressure side, a suction side, a leading edge, and a trailing edge extending between a blade tip and a blade root. Further, the rotor blade assembly includes a flexible extension having a first end and a second end. More specifically, the first end is mounted to a surface of the rotor blade and the second end is free. As such, during operation of the wind turbine, the flexible extension passively adjusts with a changing angle of attack of the rotor blade, thereby reducing variations in blade loading.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] US 2013266441 A1 20131010 - ENEVOLDSEN PEDER BAY [DK]
- [X] US 2009028705 A1 20090129 - MELDGAARD CHRISTIAN [DK], et al
- [X] US 7632068 B2 20091215 - BAK DAN CHRISTIAN [DK], et al
- [X] US 2014072441 A1 20140313 - ASHEIM MICHAEL J [US], et al
- [X] US 2012141269 A1 20120607 - GIGUERE PHILIPPE [US], et al
- [A] US 2017241400 A1 20170824 - WHITEHOUSE DANIEL [GB], et al
- [A] WO 2015091797 A1 20150625 - LM WP PATENT HOLDING AS [DK]
- [A] US 2012189455 A1 20120726 - ENEVOLDSEN PEDER BAY [DK], et al
- See references of WO 2019212560A1

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