

Title (en)

VORTEX GENERATORS FOR WIND TURBINE ROTOR BLADES HAVING NOISE-REDUCING FEATURES

Title (de)

WIRBELERZEUGER FÜR WINDTURBINENROTORSCHAUFELN MIT GERÄUSCHREDUZIERENDEN MERKMALEN

Title (fr)

GÉNÉRATEURS DE VORTEX POUR PALES DE ROTOR D'ÉOLIENNE AYANT DES CARACTÉRISTIQUES DE RÉDUCTION DE BRUIT

Publication

**EP 3788255 A4 20211208 (EN)**

Application

**EP 18917568 A 20180430**

Priority

US 2018030087 W 20180430

Abstract (en)

[origin: WO2019212456A1] The present disclosure is directed to vortex generators for wind turbine rotor blades having noise-reducing features. For example, the vortex generators are mounted within a laminar flow region on either the pressure side or the suction side of the rotor blade and have a base portion with at least one airflow modifying element extending therefrom. The base portion has a leading edge and a trailing edge extending in a first direction. Further, the base portion includes one or more edge features formed within either or both of the leading or trailing edges. Moreover, the edge features are non-parallel with respect to the first direction so as to reduce laminar boundary layer instability noise.

IPC 8 full level

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CPC (source: EP)

**F03D 1/0633** (2013.01); **F05B 2240/3062** (2020.08); **Y02E 10/72** (2013.01)

Citation (search report)

- [E] EP 3514370 A1 20190724 - GEN ELECTRIC [US]
- [X] US 2016215758 A1 20160728 - CORTEN GUSTAVE PAUL [NL]
- [I] US 2017314530 A1 20171102 - HERRIG ANDREAS [DE], et al
- See also references of WO 2019212456A1

Designated contracting state (EPC)

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