

Title (en)
Guiding a lightning to a lightning receptor

Title (de)
Führung eines Blitzes zu einem Blitzableiter

Title (fr)
Guidage d'un éclair vers un récepteur de foudre

Publication
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Application
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Priority
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Abstract (en)
[origin: EP3020964A1] The invention relates to a method of guiding a lightning to a lightning receptor (41) of a rotor blade (20) for a wind turbine (10), wherein the method comprises the following steps: Generating a vortex (32) of airflow by means of a vortex generator (31), the vortex generator (31) being located at the surface of the rotor blade (20); attracting the lightning by the vortex (32); guiding the lightning to the lightning receptor (41). Furthermore, the invention relates to a rotor blade (20) for a wind turbine (10), wherein the rotor blade (20) comprises a vortex generator (31) for generating a vortex (32) of airflow, the vortex generator (31) being located at the surface of the rotor blade (20), and a lightning receptor (41) for receiving an electrical current from the lightning. The vortex generator (31) and the lightning receptor (41) are arranged such with regard to each other that the lightning is guided to the lightning receptor (41) by the vortex (32) which is generated by the vortex generator (31). Finally, the invention relates to the use of a vortex (32) to attract a lightning.

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Cited by
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