

Title (en)

METHOD AND DEVICE FOR DETECTING ACCUMULATION OF MATERIAL ON A BLADE OF A WIND TURBINE AND FOR DETERMINING UPWIND CONDITION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERKENNUNG EINER MATERIALAKKUMULATION AUF EINER SCHAUFEL EINER WINDTURBINE UND ZUR BESTIMMUNG DES LUVZUSTANDES

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR DÉTECTER UNE ACCUMULATION DE MATÉRIAUX SUR UNE PALE D'UNE TURBINE ÉOLIENNE ET POUR DÉTERMINER UNE CONDITION FACE AU VENT

Publication

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Application

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Abstract (en)

[origin: WO2013050485A2] The present invention relates to a method for detecting accumulation of material (201) on a blade (108a) of a wind turbine (104), said method comprising the steps of: transmitting (S1) a light beam towards the blades (108a - 108c) of said wind turbine (104); receiving (S2) reflected light from the blades (108a - 108c) of said wind turbine(104); determining (S3) an instant width of said blade (108a) based on a detected intensity variation over time of the reflected light; and providing (S4) a signal indicating accumulation of material (201) on said blade (108a) if said determined width of the blade (108a) based on the detected intensity over time is larger than a known width of the blade (108a) without accumulation of material (201).

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