

Title (en)

METHOD AND DEVICE FOR NON-DESTRUCTIVE TESTING OF WIND TURBINE BLADES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ZERSTÖRUNGSFREIEN PRÜFUNG VON WINDTURBINENSCHAUFELN

Title (fr)

PROCEDE ET DISPOSITIF DE CONTROLE NON DESTRUCTIF DE PALES D'EOLIENNES

Publication

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Application

EP 11760793 A 20110927

Priority

- FR 1057827 A 20100928
- EP 2011066762 W 20110927

Abstract (en)

[origin: WO2012041848A1] The method CND (200) of non-destructive testing of a wind turbine blade (10), comprises a step (201) of stressing the structure of the blade through a modification of a physical characteristic of a fluid filling the hollow interior volume (18) of the blade, a step (202) of observing zones to be tested of the exterior surface (19) of the blade, with the contactless measurement of a physical parameter on points of the exterior surface (19) of the blade and a step (203) of comparing the map of the values of the physical parameter measured with a reference map. A system CND for checking the structural integrity of a wind turbine blade (10) according to the method CND comprises an aerothermic device (40) for modifying the physical conditions, temperature or pressure, of a fluid filling the hollow interior volume (18) of the blade, a device for contactless measurement (50) of a physical parameter, temperature or dimensions, of the exterior surface (19) of the blade, and a device for processing the measurements.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2012041848A1

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