

Title (en)

APPARATUS AND METHOD FOR NON-CONTACTING BLADE OSCILLATION MEASUREMENT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BERÜHRUNGSLOSEN SCHAUFELSCHWINGUNGSMESSUNG

Title (fr)

DISPOSITIF ET PROCÉDÉ DE MESURE SANS CONTACT DE LA VIBRATION D'AUBES MOBILES

Publication

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Application

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Priority

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- DE 102006060650 A 20061221

Abstract (en)

[origin: CA2673425A1] An apparatus for non-contacting blade oscillation measurement having sensors (6, 7, 8, 9) which are arranged around the circumference of a rotor (3) which is formed with rotor blades (10), having a signal detection unit (14) and having an evaluation unit (13), is characterized in that devices are provided to determine the rotor position and/or the housing deformation. Furthermore, a method is specified for non-contacting blade oscillation measurement. This avoids the technical problems of the prior art and provides a better apparatus and a better method for non-contacting blade oscillation measurement. In particular, the solution according to the invention eliminates the effect of rotor radial movements and housing deformation, that is to say oval deformation, on the measurement data, in this way ensuring good amplitude resolution for the oscillation analysis, in all conditions.

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