

Title (en)
METHOD FOR THE NONDESTRUCTIVE CRACK TESTING OF SURFACES OF ROTOR BLADE-RECEIVING BLADE RECEPTION SLOTS OF A ROTOR, AND ULTRASOUND DEVICE

Title (de)
VERFAHREN ZUR ZERSTÖRUNGSFREIEN RISSPRÜFUNG VON OBERFLÄCHEN VON LAUFSCHAUFELN AUFNEHMENDEN SCHAUFELAUFNAHMENUTEN EINES ROTORS SOWIE ULTRASCHALLEINRICHTUNG

Title (fr)
PROCÉDÉ D'ESSAI DE FISSURATION NON DESTRUCTEUR DE SURFACES D'ENCOCHES DE RÉCEPTION DE PALES RECEVANT DES PALES DE ROTOR D'UN ROTOR, ET DISPOSITIF À ULTRASON

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Application
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Abstract (en)
[origin: WO2021160369A1] The invention relates to a method for the nondestructive crack testing of surfaces of rotor blade-receiving blade reception slots of a rotor, wherein the blade reception slots are arranged spaced evenly along the circumference of the rotor in a manner distributed such that an externally accessible rotor surface section extends in each case between adjacently arranged rotor blades, comprising the following steps:
• positioning a guide rail on a rotor surface section extending between two rotor blades such that the guide rail extends along at least one blade reception slot to be inspected;
• positioning an ultrasound test head such that same is oriented in the direction of at least one blade reception slot to be checked and is able to be moved in a manner guided along a trajectory predefined by the shape of the guide rail;
• moving the ultrasound test head along the trajectory in the installed state of the two adjacently arranged rotor blades and at the same time checking the surface of the blade reception slot to be checked for the presence of cracks using the ultrasound test head, wherein cracks that are present are detected in the form of data using the ultrasound test head;
• diagnosing the rotor state on the basis of the data.

IPC 8 full level
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Citation (search report)
See references of WO 2021160369A1

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