

Title (en)
FASTENING OF A TURBINE BLADE WITH TREE-SHAPED ROOT IN A TURBINE ROTOR BY MEANS OF A DEFORMABLE FIXATION WEDGE AND A SECURING ELEMENT

Title (de)
FIXIERUNG EINER TURBINENSCHAUFEL MIT TANNENBAUMFÖRMIGEN FUSS IN TURBINENROTOR MITTELS EINES DEFORMIERBAREN FIXIERKEILS UND SICHERUNGSELEMENTS

Title (fr)
FIXATION À UN ROTOR DE TURBINE D'UNE AUBE ROTORIQUE DE TURBINE AVEC PIED DE SAPIN PAR UNE CALE DÉFORMABLE ET UN ÉLÉMENT DE FIXATION

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Application
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Abstract (en)
[origin: EP3650652A1] The invention relates to a fastening arrangement for a turbine blade (1) with tree-shaped root (10) in a rotor groove (20), wherein the root (10) at a radially inner side (11) comprises a recess (110). A deformable locking wedge (3) comprising a deformation groove (30) is inserted into the recess (110). The locking wedge (3) is in contact with a face (111) of the recess (110) and secured against axial displacement outwardly from the groove (20) by means of a securing element, namely a securing pin (4) detachably arranged in said rotor groove (20). Thus, the mechanical structure of the rotor groove (20) may be improved while preventing unwanted displacement of the blade (1) in the groove (20). The locking wedge (3) may comprise lamellas (31) for receiving the securing pin (4).

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