

Title (en)
TURBOMACHINE HAVING AXIAL ROTOR BLADE SECURING

Title (de)
TURBOMASCHINE MIT AXIALER LAUFSCHAUFELSICHERUNG

Title (fr)
TURBOMACHINE DOTEE D'UN BLOCAGE AXIAL DES AUBES MOBILES

Publication
EP 1957755 A1 20080820 (DE)

Application
EP 06818118 A 20061205

Priority

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Abstract (en)
[origin: WO2007065411A1] The rotor of a turbomachine, in particular a gas turbine rotor, is proposed, having a plurality of rotor blade rings (11, 12) which are positioned behind one another in the axial direction and are assigned to a turbine or a compressor, wherein each rotor blade ring has a rotor basic body (15, 16) having a plurality of rotor blades (17, 18), and wherein the rotor blades of a rotor blade ring are anchored via blade roots (19, 20) in axial grooves of the respective rotor basic body which extend substantially in the axial direction, and are secured in their anchoring position in the rotor basic body against a displacement in the axial direction. The rotor blades (17) of at least one rotor blade ring (11) have hook-like securing elements (30) which, in the anchoring position, bear against the rotor basic body (15) of the rotor blade ring (11) on a low-pressure side of said rotor blade ring (11), wherein the hook-like securing elements (30) are fixed on both sides in the axial direction between the rotor basic body (15) of the rotor blade ring (11) and a sealing element (29) which extends between the rotor basic body (15) and a rotor basic body (16) of a rotor blade ring (12) which adjoins it on the low-pressure side.

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