

Title (en)
BLADE RING FOR A TURBOMACHINE

Title (de)
SCHAUFELKRANZ FÜR EINE TURBOMASCHINE

Title (fr)
COURONNE D'AUBES POUR TURBOMACHINE

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Application
EP 13745035 A 20130729

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Abstract (en)
[origin: WO2014016431A1] The invention relates to a blade ring (44) for an axial turbomachine, comprising a blade carrier (46) with a number of retaining grooves (21) and with a corresponding number of blades (27), the blade roots of which are inserted into the retaining grooves (21), wherein the blades (27), on the underside (33) thereof facing toward a groove base (35) of the retaining groove (21), have a recess (37), the base (59) of which recess is at least partially obliquely inclined relative to the groove base (35) of the retaining groove (21) and in which recess there is arranged in each case one wedge-shaped clamping element (47) for pressing the blade root against the support flanks (23). To enable the blade (27) to be mounted in the retaining groove (21) without a preload and to provide a blade ring (44) which can be used in operation without a screw connection, it is provided that a spring element (55) is provided in each recess (37), the spring force of which spring element acts on the respective wedge-shaped clamping element (47) along the retaining groove (21), and that means are provided with which the wedge-shaped clamping element (47) can, for the mounting of the blade (27) in the retaining groove (21) without a preload, be displaced temporarily into a position in which the blade root (31) is seated in the retaining groove (21) with play.

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