

Title (en)  
Rotor of a turbomachine

Title (de)  
Rotor einer Turbomaschine

Title (fr)  
Rotor de turbomachine

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Application  
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Abstract (en)  
[origin: WO2011032548A1] The invention relates to a rotor of a turbomachine, comprising a main rotor body and several rotor blades, wherein each rotor blade has an airfoil (11) and a coupling element segment (10), and wherein a width of the coupling element segment is defined in the circumferential direction by edges extending substantially in the axial direction. According to the invention, in the viewing direction from radially outside, each coupling element segment is contoured on a first side (16) in such a way that, adjacent to a flow inlet edge (12) of the airfoil on the flow inlet side, the radially outer edge (18) extending in the axial direction protrudes in the circumferential direction beyond the radially inner edge (20) extending in the axial direction, whereas on said first side facing away from a flow outlet edge (13) of the airfoil on the flow outlet side, the radially inner edge (20) protrudes beyond the radially outer edge (18), wherein the coupling element segment is contoured on a second side (17) opposite the first side in such a way that, adjacent to the flow outlet edge (13) on the flow outlet side, the radially outer edge (19) extending in the axial direction protrudes in the circumferential direction beyond the radially inner edge (21) extending in the axial direction, whereas on said second side facing away from the flow inlet edge (12) of the respective blade on the flow inlet side, the radially inner edge (21) protrudes beyond the radially outer edge (19).

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