

Title (en)  
METHOD FOR THE CONSTRUCTION OF BLADED RINGS FOR RADIAL TURBOMACHINERY

Title (de)  
VERFAHREN ZUM AUFBAU VON LAMELLENKRÄNZEN FÜR RADIALE TURBOMASCHINEN

Title (fr)  
PROCÉDÉ DE CONSTRUCTION D'ANNEAUX À AUBES POUR TURBOMACHINE RADIALE

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Application  
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Abstract (en)  
[origin: WO2018167632A1] The present invention relates to a method for constructing bladed rings for radial turbomachines. The method comprises: preparing a cylindrical block (M; M1, M2); making in the cylindrical block (M; M1, M2) a wavy circumferential cut (28, 28', 28'') delimiting a first plurality of teeth (29) and a second plurality of teeth (30) meshing in one another; wherein the wavy circumferential cut (28, 28', 28'') splits the cylindrical block (M; M1, M2) into a first annular body (31; 31', 31'') provided with the first plurality of teeth (29) and into a second annular body (32; 32', 32'') provided with the second plurality of teeth (30); separating the first annular body (31; 31', 31'') from the second annular body (32; 32', 32''); removing material from each of the teeth (29, 30) of the first and second plurality to confer to each tooth (29, 30) the outline of at least one blade (22', 22'') with an aerodynamic profile; joining coaxially the first annular body (31; 31', 31'') to the second annular body (32; 32', 32'') by inserting the first blades (22') between the second blades (22'').

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