Title (en)

SALIENT POLE ROTOR COMPRISING FLANGES FOR HOLDING THE LEAD-OUT WIRES OF WINDINGS, AND ASSOCIATED HOLDING FLANGES

Title (de)

SCHENKELPOLLÄUFER MIT FLANSCHEN ZUM HALTEN DER KONTAKTIERUNGSDRÄHTE DER WICKLUNGEN UND ZUGEHÖRIGE HALTEFLANSCHE

Title (fr)

ROTOR A PÔLES SAILLANTS COMPORTANT DES FLASQUES DE MAINTIEN DES CHIGNONS DE BOBINAGES ET FLASQUES DE MAINTIEN ASSOCIES

Publication

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Application

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Abstract (en)

[origin: WO2013093255A2] The invention essentially relates to a rotary electric machine rotor (30), comprising flanges (55, 56) for holding the lamination stack (36) and the lead-out wires of the windings axially arranged on both sides of the lamination stack (36) comprising at least eight salient poles having inter-winding spaces formed between the consecutive windings that are each wound around a salient pole. The invention is characterized in that each holding flange (55, 56) comprises a radial wall (59) having a main opening (60) that enables the shaft (35) to pass therethrough, an annular rim (75) extending over the entire outer periphery of the radial wall (59) and axially extending in the direction of the rotor, said annular rim (75) having one surface that bears on the outer radial end surfaces of the lamination stack (36), and at least one series of through-openings (72) provided in the radial wall (59) that ensure air flow inside the rotor and between both salient poles. The total surface area of the series of through-openings (72, 73) is greater than 0.3 times the total surface area of the inter-winding spaces.

IPC 8 full level

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