

Title (en)

HAIRPIN WINDING OF A STATOR OF AN ELECTRIC MOTOR

Title (de)

HAIRPIN-WICKLUNG EINES STATORS EINER ELEKTROMASCHINE

Title (fr)

ENROULEMENT DE TYPE EN ÉPINGLE À CHEVEUX DE STATOR DE MOTEUR ÉLECTRIQUE

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Application

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Abstract (en)

[origin: WO2021063649A1] The invention relates to a stator (1) for an electric motor (100), comprising - a plurality of pins (21, 22, 23, 24, 25, 26, 27) which are arranged on concentric circles at different distances from a stator centre point (M) in grooves (51, 52, 53, 54, 55, 56) in the stator, each concentric circle forming a layer (L1, L2, L3, L4, L5, L6); - six pins (21, 22, 23, 24, 25, 26, 27) in each case being serially connected to one another in a different layer (L1, L2, L3, L4, L5, L6) and forming a winding (41), - a first pin (21) of the winding (41) being located in a first groove (51) in the 6n-4 layer (L2), n being a natural number; - a second pin (22) of the winding (41) being located in a second groove (52) in the 6n-5 layer (L1), the second groove (52) being at a first radial distance (71) from the first groove (51) in a first circumferential direction of the stator (1); - a third pin (23) of the winding (41) being located in the first groove (51) in the 6n-2 layer (L4); - a fourth pin (24) of the winding (41) being located in the second groove (52) in the 6n-3 layer (L3); - a fifth pin (25) being located in the first groove (51) in the 6n layer (L6); - a sixth pin (26) of the winding (41) being located in the second groove (52) in the 6n-1 layer (L5).

IPC 8 full level

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