Title (en)

MOTOR STATOR FOR AN ELECTRIC MOTOR AND METHOD FOR MANUFACTURING THE MOTOR STATOR

Title (de)

MOTORSTATOR FÜR EINEN ELEKTROMOTOR UND VERFAHREN ZUR HERSTELLUNG DES MOTORSTATORS

Title (fr)

STATOR DE MOTEUR POUR MOTEUR ÉLECTRIQUE ET SON PROCÉDÉ DE FABRICATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2022135679A1] The invention is related to a manufacturing method of a motor stator (10) for an electric motor and an associated motor stator (10). The motor stator (10) is provided with a closed ring-shaped stator body (15) comprising a plurality of stator teeth (20), wherein all stator teeth (20) are connected by connection bridges (30) with the two adjacent stator teeth (20). The stator body (15) is mechanically deformed at the connection bridges (30) to thereby expose a single stator tooth (20A) by folding away the adjacent stator teeth (20), so that the exposed stator tooth (20) is laterally accessible. The exposed stator tooth (20) is orthocyclically wound with an electroconductive coil wire (50). The first and second manufacturing step are repeated for each stator tooth (20) of the stator body (15) until all stator teeth (20) have been wound. The stator body (15) is mechanically re-deformed back into a circular ring-shape. The connection bridges (30') have been plastically deformed, so that the crystalline grid structure of the connection bridges (30') is distorted.

IPC 8 full level

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CPC (source: EP)

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