

Title (en)

ELECTRIC MOTOR AND METHOD FOR PRODUCING AN ELECTRIC MOTOR

Title (de)

ELEKTROMOTOR SOWIE VERFAHREN ZUR HERSTELLUNG EINES ELEKTROMOTORS

Title (fr)

MOTEUR ÉLECTRIQUE ET PROCÉDÉ DE FABRICATION D'UN MOTEUR ÉLECTRIQUE

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Application

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Abstract (en)

[origin: WO2019154556A1] The invention relates to an electric motor comprising a stator (A) with an insulation, a rotor, and an electronics and/or terminal housing (1) comprising a bottom (4), in which electrical/electronic components provided for the operation of the electric motor are housed. The electronics and/or terminal housing (1) is permanently connected to the stator (A) by means of an overmould (17b) so as to form a stator unit, the bottom (4) of the electronics and/or terminal housing (1) being at least partially covered by the overmould (17b) on its upper side. The overmould is not only provided for the stator, but is used at the same time as a connection means for connecting the electronics and/or terminal housing to the wound stator. Additional connection parts are not required as a result. The stator packet is first wound and then inserted into an injection mould with the electronics housing (1). Then, a heat-conductive, electrically insulating plastic is used to form the overmould (17b). Said overmould permanently connects the stator and the electronics and/or terminal housing (1) together to form the stator unit. As the bottom (4) of the electronics and/or terminal housing (1) is at least partially covered on the upper side by the overmould (17b), a secure interlocking connection is ensured between the electronics and/or terminal housing (1) and the stator (A).

IPC 8 full level

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