

Title (en)

STATOR APPARATUS WITH WIRING END DISC FOR AN ELECTRIC MOTOR, AND USE OF THE STATOR APPARATUS

Title (de)

STATORVORRICHTUNG MIT VERSCHALT-ENDSCHEIBE FÜR EINEN ELEKTROMOTOR UND VERWENDUNG DER STATORVORRICHTUNG

Title (fr)

SYSTÈME DE STATOR MUNI D'UNE PLAQUE D'EXTRÉMITÉ DE CONNEXION POUR MOTEUR ÉLECTRIQUE ET UTILISATION DUDIT SYSTÈME DE STATOR

Publication

EP 3669442 A1 20200624 (DE)

Application

EP 19700213 A 20190107

Priority

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- EP 2019050264 W 20190107

Abstract (en)

[origin: WO2019149475A1] The invention relates to a stator apparatus (2) for an electric motor having a plurality of windings (1' to 12') which are provided on a winding carrier (4), are designed for electromotively interacting with a rotor which is mounted such that it can rotate about a centre axis relative to the winding carrier (4), extend parallel in relation to one another and in relation to the centre axis and are arranged along a profile which is in the form of an arc of a circle and are designed such that they can be individually electrically contacted by winding connections of a winding wire, wherein at least two discs and/or annular, electrically conductively designed wiring rings (8u, 8v, 8w) are associated with the windings (1' to 12') such that they are arranged, in a manner electrically insulated from one another, along an axial direction of the centre axis on the winding carrier (4) such that the winding connections with the same electrical connection polarity (U; V; W) of the windings (1' to 12') are connected to the wiring ring (8u, 8v, 8w), which is associated with this connection polarity (U; V; W), for external common contact-connection in a non-releasable manner by means of welding hooks (20) which are integrally formed with the radially inner side of the wiring ring (8u, 8v, 8w), wherein the wiring rings (8u, 8v, 8w) are integrated into a hollow-cylindrical wiring end disc (6), and in that an annular deflection disc (10) with deflection pins (12), which are arranged distributed around the periphery of the inner side of the deflection disc (10), for deflecting the winding wire is provided on the wiring end disc (6) in the axial direction.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019149475A1

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Designated extension state (EPC)

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DOCDB simple family (publication)

DE 102018102033 A1 20190801; CN 111247717 A 20200605; CN 111247717 B 20230801; EP 3669442 A1 20200624; US 11387702 B2 20220712; US 2021075290 A1 20210311; WO 2019149475 A1 20190808

DOCDB simple family (application)

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