

Title (en)

STATOR OF AN ELECTRICAL MACHINE, ELECTRICAL MACHINE, AND ROUTING AND CONTACTING DEVICE FOR AN ELECTRICAL MACHINE

Title (de)

STATOR EINER ELEKTRISCHEN MASCHINE, ELEKTRISCHE MASCHINE SOWIE VERLEGE- UND KONTAKTEINRICHTUNG FÜR EINE ELEKTRISCHE MASCHINE

Title (fr)

STATOR D'UNE MACHINE ÉLECTRIQUE, MACHINE ÉLECTRIQUE ET DISPOSITIF DE TRANSFERT ET DE CONTACT POUR UNE MACHINE ÉLECTRIQUE

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Application

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Abstract (en)

[origin: WO2018104418A1] The invention relates to a stator (10) of an electrical machine (98), in particular for a motor vehicle, having a stator laminated core (25) which has a number of inwardly pointing stator teeth (16) and is provided with a rotating field winding (34) which is arranged on the stator teeth (16) and comprises multiple phases (U, V, W, U', V', W'), each phase (U, V, W, U', V', W') comprising at least one coil (30) which has a first and a second coil end (36). The stator also has a contact device (38, 38', 38'') comprising a routing element (42) placed onto the end of the stator laminated core (25) and a connecting element (44), placed onto the routing element, for connecting the coil ends (36) to phase connections (40) on a stator end face. The coil ends (36) protrude vertically through feedthrough openings (48) in the routing element (42) and are each guided in a radially angled manner along a guide groove (54) in the laying element (42) and are axially contacted and fixed at a contact point (56) of the guide groove (54) by means of a contact element (46) which is electrically coupled to the connecting element (42). The guide grooves (54) each have in the axial direction (M) a narrow point (58) which secures the coil end (36) guided in each guide groove (54) against sliding out axially.

IPC 8 full level

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