

Title (en)

ROTATING ELECTRIC MACHINE AND A BRACING DEVICE FOR SUCH A MACHINE

Title (de)

ROTIERENDE ELEKTRISCHE MASCHINE UND VERSPANNEINRICHTUNG FÜR EINE SOLCHE MASCHINE

Title (fr)

MACHINE TOURNANTE ELECTRIQUE ET DISPOSITIF DE RETENUE POUR UNE TELLE MACHINE

Publication

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Application

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Abstract (en)

[origin: WO9834327A1] The stator winding in a rotating electric machine is provided with a bracing device (120). The stator (106) has radial slots (111) to receive the winding cables (101). The winding forms layers at different radial distances from the air gap (108) between the rotor (107) and the stator (106). The part of a cable (101) that passes to and fro one through the stator (106) between different layers constitutes a coil (113) with an arc-shaped coil end protruding from each end surface (114) of the stator (106). The cable consists of high-voltage cable (101). The substantially radial and axial spaces (118 and 119, respectively) existing between the coils (113) contain an electrically insulating bracing device (120). The latter consists of plates (121) of non-conducting material that extend through axial spaces (119) between the coils (113) and are radially clamped to the coils (113) by means of bolts (122) of non-conducting material. The bolts (122) extend through radial spaces (118) and are secured in a bracing fixture (123) emanating, for instance, from the stator body (124).

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