

Title (en)
INSULATION SYSTEM, STATOR, ELECTRICAL MACHINE, IN PARTICULAR A TURBOGENERATOR, AND METHOD FOR INSULATING AN ELECTRICAL CONDUCTIVE ELEMENT

Title (de)
ISOLIERUNGSSYSTEM, STATOR, ELEKTRISCHE MASCHINE, INSBESONDERE TURBOGENERATOR, SOWIE VERFAHREN ZUM ISOLIEREN EINES ELEKTRISCHEN LEITELEMENTS

Title (fr)
SYSTÈME D'ISOLATION, STATOR, MACHINE ÉLECTRIQUE, NOTAMMENT TURBOGÉNÉRATEUR, ET PROCÉDÉ D'ISOLATION D'UN ÉLÉMENT CONDUCTEUR ÉLECTRIQUE

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Abstract (en)
[origin: WO2015106985A1] The invention relates to an insulation system (1) of an electrical conductive element (6) of an electrical machine (3), having a number of insulation system layers (10) including an inner potential control layer (11), a main insulation layer (12), an outer corona shielding layer (13), and an end corona shielding layer (14), each of said insulation system layers (10) having a resin-impregnated tape material strip (20, 21, 22, 23) that is wound, with a plurality of windings (30, 31, 32, 34), around the electrical conductive element (6, 7) in such a way that the windings (30, 31, 32, 34) are arranged with overlapping regions (35) half overlapping long side regions (41, 42) of each tape material strip (20, 21, 22, 23), wherein, according to the invention, the insulation system is characterised in that at least one of the tape material strips (20, 21, 22, 23) is flattened at the long side regions (41, 42) thereof, in relation to the mid-region (43) thereof.

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