Title (en)

TWISTED-CONDUCTOR BUNDLE FOR THE WINDINGS OF ELECTRIC MACHINES AND EQUIPMENT

Title (de)

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Title (fr)

FAISCEAU DE CONDUCTEURS TORSADE POUR ENROULEMENT DE MACHINES ET APPAREILS ELECTRIQUES

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Application

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Abstract (en)

[origin: WO9523420A1] The aim of the invention is to provide a twisted-conductor bundle which meets the requirements of machine and equipment designers and enables the material to be used more efficiently while preferably also reducing the equipment height. Described is a twisted-conductor bundle (1) made up of flat-wire conductors (2) disposed one above the other. As in the prior art, the bundle may consist of up to about 80 conductors. The invention calls for at least one spacer (4) to be disposed between two superposed conductors (2) in each conductor stack, the transverse channels (5) thus formed in each conductor stack being flush with each other. The spacers (4) may be located in the same plane or in different planes in the conductor stack. A cooling channel (5) is thus formed through which coolant may be passed. When this twisted-conductor bundle is used in a transformer winding, a cooling channel is formed in the direction of the winding axis. The invention makes it possible for the first time to improve cooling in the axial direction. The improved cooling enables the current density to be increased, thus reducing the amount of copper necessary for the winding.

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