Title (en)

METHOD FOR APPLICATION OF WIRE SYSTEM WITH MECHANICAL SUPPORT WIRE AND CURRENT CONDUCTING WIRE FOR TRANSMISSION LINE

Title (de)

VERFAHREN ZUR ANWENDUNG EINES VERDRAHTUNGSSYSTEMS MIT MECHANISCHEM STÜTZDRAHT UND STROMFÜHRENDEM DRAHT FÜR EINE ÜBERTRAGUNGSLEITUNG

Title (fr)

PROCEDE D'APPLICATION D'UN SYSTEME FILAIRE COMPORTANT UN FIL DE SUPPORT MECANIQUE ET UN FIL CONDUCTEUR A UNE LIGNE DE TRANSPORT D'ELECTRICITE

Publication

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Application

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Abstract (en)

[origin: WO03077393A1] Method for the application of a wire system consisting of a mechanical support wire or wires and current conducting wires for power transmission lines comprising steps of attaching mechanical support wires on support structures of the transmission line directly or by means of insulators and joining separate current conducting wires to the mechanical support wires applying spacers and/or insulators. The cross-sectional area of current conducting wires is chosen to ensure that with current conducting wires loaded with their rated current and with the ambient temperature being 30 ° C, the temperature of said current conducting wires is greater than 80 ° C but does not exceed 300 ° C. According to the inventive method, the support wire is implemented as a ground wire. For reducing the tensile stress of existing phase conductor wires that according to the invention are functioning as current conducting wires, support wires are installed such that support wires and existing phase conductor wires are tensioned, taking into account the ambient temperature, to a degree that the tensile stress to which the current conducting wires are subjected is reduced by at least 20%.

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