

Title (en)

PROCESS FOR IMPREGNATING THERMAL ENERGY ABSORBING MATERIAL INTO THE STRUCTURE OF AN ELECTRIC CABLE, AND RESPECTIVE ELECTRIC CABLE

Title (de)

VERFAHREN ZUR IMPRÄGNIERUNG VON WÄRMEENERGIEABSORBIERENDEM MATERIAL IN DIE STRUKTUR EINES STROMKABELS UND ENTSPRECHENDES STROMKABEL

Title (fr)

PROCÉDÉ D'IMPRÉGNATION D'UN MATÉRIAU ABSORBANT L'ÉNERGIE THERMIQUE DANS LA STRUCTURE D'UN CÂBLE ÉLECTRIQUE, ET CÂBLE ÉLECTRIQUE RESPECTIF

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Application

EP 18819206 A 20181022

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Abstract (en)

[origin: WO2019138274A1] The present application is related to a process for impregnating thermal energy absorbing material into the structure of an electric cable and an respective electric cable comprising energy absorbing material for maximizing the intensity of electric current conveyed thereby. The developed technology involves the inclusion of a material in the cable structure, capable of absorbing thermal energy from at least one of the constituent layers of the cable, thus reducing the temperature of the surrounding materials. In this way, the present technology is useful for conveying and delivering electricity (high and very high voltage) within insulated cables, to underground installations, for example, allowing gains in the conveying capacity, without significant increase of the cable section. Therefore, the thermal limitation imposed by the insulation material is overcome, making it possible to maximize the electric current intensity of the conductor while reducing Joule-effect losses over time to the surroundings, thus increasing the useful life thereof.

IPC 8 full level

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