

Title (en)

ADVANCED HIGH VOLTAGE CAPACITANCE GRADED BUSHING

Title (de)

FORTSCHRITTLICHER HOCHSPANNUNGSDURCHFÜHRUNGSISOLATOR MIT KAPAZITÄTSGRADIENTEN

Title (fr)

BAGUE HAUTE TENSION À GRADIENT DE CAPACITÉ AMÉLIORÉE

Publication

EP 3460810 A1 20190327 (EN)

Application

EP 18193147 A 20180907

Priority

IT 201700105778 A 20170921

Abstract (en)

This is a method for manufacturing a capacitance graded core for a high voltage electrical bushing, the capacitance graded core comprising: an elongated electrical conductor; an electrically insulating body disposed around the elongated electrical conductor; and a plurality of electrodes disposed coaxially to the elongated electrical conductor in the electrically insulating body. The method comprises: a) providing an insulating pre-impregnated fabric made of insulating fibers impregnated with an insulating thermoplastic material, the pre-impregnated fabric having a surface; b) heating the pre-impregnated fabric to melt the thermoplastic material of the pre-impregnated fabric; c) winding the melted pre-impregnated fabric around the elongated conductor while pressing the melted pre-impregnated fabric on the elongated conductor. The method further comprises forming an electrically conductive layer on the surface of the insulating pre-impregnated fabric, this step being repeated intermittently, thereby obtaining a plurality of electrically conductive layers inserted between the windings of pre-impregnated fabric and thus forming the plurality of electrodes.

IPC 8 full level

H01B 3/50 (2006.01); **H01B 7/02** (2006.01); **H01B 13/32** (2006.01); **H01B 17/28** (2006.01); **H01B 19/00** (2006.01)

CPC (source: EP)

H01B 3/50 (2013.01); **H01B 17/28** (2013.01); **H01B 19/00** (2013.01)

Citation (search report)

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- [A] EP 2911255 A1 20150826 - ABB TECHNOLOGY LTD [CH]
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- [A] US 3983289 A 19760928 - NISHIZAKI SYUNICHIRO, et al

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CN113284684A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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