

Title (en)
INSULATED ELECTRICAL CONDUCTOR

Title (de)
ISOLIERTER ELEKTRISCHER LEITER

Title (fr)
CONDUCTEUR ELECTRIQUE ISOLE

Publication
EP 3226258 B1 20181024 (DE)

Application
EP 16163536 A 20160401

Priority
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Abstract (en)
[origin: CA3019024A1] An insulated electric conductor and the method for producing it are described, the electric conductor having improved adhesion between conductor and insulating coating, wherein the insulating coating includes either at least one insulating layer made of thermoplastic material, or a plastic-containing intermediate layer, the electric conductor obtained by a method in which the electric conductor is placed under a protective gas atmosphere and is bombarded with ions of the protective gas in a gas plasma in order to remove an oxide layer formed on a surface of the electric conductor and/or to increase the surface energy of the electric conductor, and subsequently either the at least one insulating layer or, in the case that the coating comprises the plastic-containing intermediate layer, at least the plastic-containing intermediate layer is applied directly to the surface of the electric conductor (1) under a protective gas atmosphere.

IPC 8 full level
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CPC (source: CN EP KR US)
H01B 3/301 (2013.01 - EP KR US); **H01B 3/305** (2013.01 - KR); **H01B 3/307** (2013.01 - EP KR US); **H01B 3/427** (2013.01 - EP KR US); **H01B 7/02** (2013.01 - CN); **H01B 7/0208** (2013.01 - KR); **H01B 7/0216** (2013.01 - US); **H01B 7/0225** (2013.01 - CN); **H01B 7/0275** (2013.01 - KR US); **H01B 7/0291** (2013.01 - CN KR); **H01B 13/003** (2013.01 - CN EP KR US); **H01B 13/06** (2013.01 - CN KR); **H01B 13/14** (2013.01 - CN); **H01B 13/141** (2013.01 - CN EP KR US); **H01B 13/145** (2013.01 - EP KR US); **H01B 3/305** (2013.01 - EP US); **H01B 3/306** (2013.01 - EP US); **H01B 3/441** (2013.01 - EP US)

Citation (examination)
• JP H03222210 A 19911001 - FURUKAWA ELECTRIC CO LTD
• WO 2016039350 A1 20160317 - FURUKAWA ELECTRIC CO LTD [JP], et al

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Designated contracting state (EPC)
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EP 16163536 A 20160401; BR 112018069576 A 20170320; BR 122020003443 A 20170320; CA 3019024 A 20170320; CN 201780026649 A 20170320; CN 202210097365 A 20170320; EP 17711216 A 20170320; EP 18191902 A 20170320; EP 2017056489 W 20170320; ES 16163536 T 20160401; ES 17711216 T 20170320; ES 18191902 T 20170320; HU E18191902 A 20170320; JP 2018551942 A 20170320; JP 2021040199 A 20210312; KR 20187028338 A 20170320; KR 20227034350 A 20170320; MA 44174 A 20170320; MA 44633 A 20170320; MD E20190207 T 20170320; MX 2018011979 A 20170320; MY PI2018703545 A 20170320; PL 16163536 T 20160401; PL 17711216 T 20170320; PL 18191902 T 20170320; PT 16163536 T 20160401; PT 17711216 T 20170320; PT 18191902 T 20170320; RS P20181483 A 20160401; RS P20190780 A 20170320; RS P20211525 A 20170320; TR 201910192 T 20170320; US 201716089270 A 20170320; US 202217932974 A 20220916