Title (en)

METHOD FOR THE PRODUCTION OF A MULTI-LAYER METAL CORD THAT IS RUBBERISED IN SITU USING AN UNSATURATED THERMOPLASTIC ELASTOMER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES MIT EINEM UNGESÄTTIGTEN THERMOPLASTISCHEN ELASTOMER IN-SITU GUMMIERTEN MEHRLAGIGEN METALLSEILS

Title (fr)

PROCEDE DE FABRICATION D'UN CABLE METALLIQUE MULTICOUCHES GOMME IN SITU PAR UN ELASTOMÈRE THERMOPLASTIQUE INSATURE

Publication

EP 2572033 A1 20130327 (FR)

Application

EP 11717669 A 20110506

Priority

- FR 1053904 A 20100520
- EP 2011057349 W 20110506

Abstract (en)

[origin: WO2011144473A1] The invention relates to a method for producing a multi-layer metal cord having multiple concentric layers of strands, comprising one or more inner layers and an outer layer, of the type that is "rubberised in situ", i.e. rubberised from the interior during the production thereof, using rubber or a rubber composition. The method includes at least the following steps: a step in which at least one inner layer is coated with the aforementioned rubber or rubber composition, by means of passage through at least one extrusion head; and a step in which the strands of the outer layer are assembled around the adjacent inner layer in order to form the multi-layer cable thus rubberised from the interior. The invention is characterised in that the rubber is a melt-extruded unsaturated thermoplastic elastomer, preferably a thermoplastic styrene (TPS) type elastomer, such as an SBS, SBBS, SIS or SBIS block copolymer.

IPC 8 full level

D07B 7/14 (2006.01); **D07B 1/06** (2006.01); **D07B 1/16** (2006.01)

CPC (source: EP US)

D02G 3/02 (2013.01 - US); **D07B 1/062** (2013.01 - EP US); **D07B 1/0633** (2013.01 - EP US); **D07B 7/145** (2013.01 - EP US); D07B 1/0646 (2013.01 - EP US); D07B 1/0653 (2013.01 - EP US); D07B 5/12 (2013.01 - EP US); D07B 2201/2028 (2013.01 - EP US); D07B 2201/2046 (2013.01 - EP US); D07B 2201/2048 (2013.01 - EP US); D07B 2201/2059 (2013.01 - EP US); D07B 2201/2062 (2013.01 - EP US); D07B 2201/2082 (2013.01 - EP US); D07B 2205/2003 (2013.01 - EP US); D07B 2205/2082 (2013.01 - EP US); D07B 2207/205 (2013.01 - EP US); D07B 2207/4072 (2013.01 - EP US); D07B 2501/2046 (2013.01 - EP US)

Citation (search report)

See references of WO 2011144473A1

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

DOCDB simple family (publication)

WO 2011144473 A1 20111124; CN 102906330 A 20130130; CN 102906330 B 20150204; EP 2572033 A1 20130327; EP 2572033 B1 20150128; FR 2962456 A1 20120113; FR 2962456 B1 20120921; JP 2013530319 A 20130725; JP 5942987 B2 20160629; US 2013227924 A1 20130905; US 9150984 B2 20151006

DOCDB simple family (application)

EP 2011057349 W 20110506; CN 201180024664 A 20110506; EP 11717669 A 20110506; FR 1053904 A 20100520; JP 2013510560 A 20110506; US 201113699300 A 20110506