

Title (en)
METHOD AND DEVICE FOR MANUFACTURING A MULTIPLE WIRE STRAND FOR TIRE REINFORCEMENT FILLED WITH A FILLER DURING STRANDING

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG EINER MEHRLAGIGEN LITZE ALS REIFENVERSTÄRKUNG MIT WÄHREND DES SCHLAGENS EINGEBRACHTEN FÜLLER

Title (fr)
PROCEDE ET DISPOSITIF DE FABRICATION D'UN CABLE A TROIS COUCHES DU TYPE GOMME IN SITU

Publication
EP 2366048 B1 20160127 (FR)

Application
EP 09752123 A 20091110

Priority
• EP 2009008008 W 20091110
• FR 0857789 A 20081117

Abstract (en)
[origin: WO2010054791A1] Method of manufacturing a metal cord with three concentric layers (C1, C2, C3), that is rubberized in situ, of construction M+N+P, comprising an internal first layer (C1) made up of M filaments of diameter d1, M varying from 1 to 4, around which there are wrapped together in a helix at a pitch p2, as an intermediate second layer (C2), N filaments of diameter d2, N varying from 3 to 12, around which there are wrapped together in a helix at a pitch p3, as an outer third layer (C3), P filaments of diameter d3, P varying from 8 to 20, said method comprising the following steps performed in line: - a step of assembling, by twisting, the N filaments around the first layer (C1), in order to form at a point known as the "assembly point" an intermediate cord known as a "cored strand" of construction M+N; - downstream of the assembly point, a step of jacketing the cored strand M+N with a rubber compound known as "filling rubber", in the non-crosslinked state; - a step of assembling the P filaments of the first layer (C3) by twisting around the cored strand thus jacketed; - a final torsion equalizing step. Device for implementing such a method.

IPC 8 full level
D07B 7/14 (2006.01); **D07B 1/06** (2006.01); **D07B 3/08** (2006.01); **D07B 5/12** (2006.01)

CPC (source: EP US)
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Citation (examination)
• JP 2006283249 A 20061019 - TOYO TIRE & RUBBER CO
• JP 2008202196 A 20080904 - TOYO TIRE & RUBBER CO
• WO 2009083213 A1 20090709 - MICHELIN SOC TECH [FR], et al

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DOCDB simple family (publication)
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