

Title (en)
METHOD AND DEVICE FOR MANUFACTURING A METAL CORD FOR REINFORCING ELASTOMERIC PRODUCTS, PARTICULARLY TYRES

Title (de)
VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN EINES METALLSEILES ZUR VERSTÄRKUNG ELASTOMERER ERZEUGNISSE,
INSBESONDERE LUFTREIFEN

Title (fr)
PROCEDE ET DISPOSITIF DE FABRICATION D'UN CABLE METALLIQUE DESTINE A RENFORCER DES PRODUITS ELASTOMERES,
NOTAMMENT DES PNEUS

Publication
EP 1141477 A1 20011010 (EN)

Application
EP 99965484 A 19991214

Priority
• EP 99965484 A 19991214
• EP 9910055 W 19991214
• EP 98830785 A 19981224
• US 12239199 P 19990302

Abstract (en)
[origin: WO0039385A1] Device for manufacturing metal cords to be used particularly for reinforcing composite elastomeric products, comprising: a supporting structure (100); a rotor (5) engaged with respect to said supporting structure (100) and rotatable according to a predefined axis; a cradle fastened to said supporting structure (100) according to an oscillation axis which coincides with the rotation axis of the rotor (5); feeding devices operatively fitted on said cradle to feed several elementary wires from the respective feeding spools (8), said elementary wires being driven onto said rotor (5) according to a stranding path with and sections (10A, 10C) coinciding with the rotation axis of the rotor (5) and with a central section (10B) distanced from said rotation axis; at least one preforming device (15) operatively engaged with the cradle and operating on one of said elementary wires in a section upstream with respect to the first end section (10A) of the stranding path. Furthermore, said at least one preforming device (15) is suitable for providing said elementary wire with a substantially sinusoidal deformation without sharp edges.

IPC 1-7
D07B 1/06; **D07B 3/02**; **D07B 7/02**

IPC 8 full level
D07B 1/06 (2006.01); **B60C 9/00** (2006.01); **B60C 9/04** (2006.01); **B60C 15/04** (2006.01); **D07B 3/02** (2006.01); **D07B 5/12** (2006.01); **D07B 7/02** (2006.01)

CPC (source: EP US)
D07B 1/0646 (2013.01 - EP US); **D07B 3/022** (2021.01 - EP US); **D07B 7/025** (2013.01 - EP); **D07B 2201/2008** (2013.01 - EP); **D07B 2501/2046** (2013.01 - EP)

Cited by
WO2016066336A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 0039385 A1 20000706; AT E255186 T1 20031215; AU 2098200 A 20000731; AU 765054 B2 20030904; BR 9916547 A 20010904; BR 9916547 B1 20100209; CN 100336672 C 20070912; CN 1206402 C 20050615; CN 1331769 A 20020116; CN 1636771 A 20050713; CZ 20012278 A3 20011212; DE 69913200 D1 20040108; DE 69913200 T2 20040902; EP 1141477 A1 20011010; EP 1141477 B1 20031126; ES 2212664 T3 20040716; JP 2002533586 A 20021008; JP 4741080 B2 20110803; RU 2232837 C2 20040720; SK 9222001 A3 20020205; TR 200101842 T2 20020121

DOCDB simple family (application)
EP 9910055 W 19991214; AT 99965484 T 19991214; AU 2098200 A 19991214; BR 9916547 A 19991214; CN 200410011583 A 19991214; CN 99814971 A 19991214; CZ 20012278 A 19991214; DE 69913200 T 19991214; EP 99965484 A 19991214; ES 99965484 T 19991214; JP 2000591265 A 19991214; RU 2001120721 A 19991214; SK 9222001 A 19991214; TR 200101842 T 19991214