Title (en)

METHOD OF MANUFACTURING A WINDING WITH SEPARATE THREADS

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER WICKLUNG MIT GETRENNTEN FÄDEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ENROULEMENT A FILS SÉPARÉS

Publication

EP 2004534 B1 20101027 (FR)

Application

EP 07731870 A 20070404

Priority

• FR 2007051067 W 20070404
• FR 0651291 A 20060410

Abstract (en)

[origin: WO2007116181A1] Method of manufacturing windings comprising a plurality of assembled threads which is characterized in that - the threads from a spinneret are separated into at least two layers, each of the layers is wound on the same winding using a traveller, said winding being supported by one of the spindles, - the battery is set in motion in such a way as to cause one of the spindles to switch from its winding phase to its rest position, - during this stage of transition between the spindles, the rovings passing from the spinneret to the surface of said winding are separated out using a separating device, - the traveller is brought closer to the surface of the winding and the latter then intercepts the path of each of the separated rovings in such a way as to entrap each of the rovings within said traveller, - the separating device is then positioned in its second position.

IPC 8 full level

B65H 54/28 (2006.01); **B65H 54/02** (2006.01); **B65H 55/00** (2006.01); **B65H 57/16** (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP KR US)

B65H 54/02 (2013.01 - KR); **B65H 54/026** (2013.01 - EP US); **B65H 54/28** (2013.01 - KR); **B65H 54/2812** (2013.01 - EP US); **B65H 54/36** (2013.01 - EP US); **B65H 55/00** (2013.01 - KR); **B65H 55/005** (2013.01 - EP US); **B65H 57/003** (2013.01 - EP US); **B65H 57/006** (2013.01 - EP US); **B65H 57/16** (2013.01 - EP KR US); **B65H 67/048** (2013.01 - EP US); B65H 2701/3122 (2013.01 - EP US); B65H 2701/3132 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2899571 A1 20071012; **FR 2899571 B1 20090206**; AT E486037 T1 20101115; BR PI0710492 A2 20110816; CA 2647962 A1 20071018; CA 2647962 C 20141028; CN 101448724 A 20090603; CN 101448724 B 20130123; CN 103030028 A 20130410; DE 602007010116 D1 20101209; EP 2004534 A1 20081224; EP 2004534 B1 20101027; JP 2009533298 A 20090917; JP 4987964 B2 20120801; KR 101311097 B1 20130925; KR 20080109914 A 20081217; RU 2008140115 A 20100520; RU 2430007 C2 20110927; US 2012111983 A1 20120510; US 8882019 B2 20141111; WO 2007116181 A1 20071018

DOCDB simple family (application)

FR 0651291 A 20060410; AT 07731870 T 20070404; BR PI0710492 A 20070404; CA 2647962 A 20070404; CN 200780018736 A 20070404; CN 201210580936 A 20070404; DE 602007010116 T 20070404; EP 07731870 A 20070404; FR 2007051067 W 20070404; JP 2009504790 A 20070404; KR 20087027469 A 20070404; RU 2008140115 A 20070404; US 29655907 A 20070404