

Title (en)

DEVICE AND METHOD FOR PRODUCING A SPRING MADE OF FIBER COMPOSITE MATERIAL

Title (de)

VORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG EINER FEDER AUS FASERVERBUNDWERKSTOFF

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FABRICATION D'UN RESSORT EN MATÉRIAU COMPOSITE RENFORCÉ PAR DES FIBRES

Publication

EP 2934853 A1 20151028 (DE)

Application

EP 13831893 A 20131206

Priority

- DE 102012112937 A 20121221
- DE 2013100410 W 20131206

Abstract (en)

[origin: WO2014094732A1] The invention relates to a method for producing a spring made of fiber composite material, in which a laminate strand which is formed from fibers of fiber composite material and is impregnated with a matrix material that can be consolidated is reshaped into a spring geometry. The invention also relates to a device for carrying out the method. On the method side, it is proposed that, prior to reshaping the laminate strand (2), a strand-shaped preproduct (20) is formed by applying a deformable protective jacket (16), which encloses the laminate strand (2), in a continuous application process. On the device side, it is proposed that an application unit (15) for forming a protective jacket (16) around the laminate strand (2) is arranged downstream of the processing device (1) in the transport direction of the laminate strand (2).

IPC 8 full level

B29C 53/12 (2006.01); **F16F 1/366** (2006.01); **B29L 31/00** (2006.01)

CPC (source: EP US)

B29C 53/12 (2013.01 - EP US); **F16F 1/021** (2013.01 - EP US); **F16F 1/024** (2013.01 - EP US); **F16F 1/04** (2013.01 - EP US); **F16F 1/366** (2013.01 - US); **F16F 1/3665** (2013.01 - US); **B29L 2031/774** (2013.01 - EP US)

Citation (search report)

See references of WO 2014094732A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102012112937 A1 20140626; BR 112015014409 A2 20170711; BR 112015014409 B1 20210608; CN 105189086 A 20151223; CN 105189086 B 20201106; EP 2934853 A1 20151028; US 2015330471 A1 20151119; WO 2014094732 A1 20140626

DOCDB simple family (application)

DE 102012112937 A 20121221; BR 112015014409 A 20131206; CN 201380072982 A 20131206; DE 2013100410 W 20131206; EP 13831893 A 20131206; US 201314652284 A 20131206