

Title (en)
METHOD FOR MANUFACTURING CARBON FIBER BUNDLES WITH SIZING AGENT APPLIED

Title (de)
VERFAHREN ZUR HERSTELLUNG VON KOHLENSTOFFFASERBÜNDELN MIT ANGEWANDTEM LEIMUNGSMITTEL

Title (fr)
PROCÉDÉ DE FABRICATION DE FAISCEAUX DE FIBRES DE CARBONE SUR LESQUELS UN PRODUIT D'ENCOLLAGE A ÉTÉ APPLIQUÉ

Publication
EP 3653772 A4 20200722 (EN)

Application
EP 18832001 A 20180604

Priority
• JP 2017134358 A 20170710
• JP 2018021342 W 20180604

Abstract (en)
[origin: EP3653772A1] In a method for producing sizing agent-applied carbon fiber bundles, the method including a sizing agent application process of immersing a plurality of carbon fiber bundles running side by side in a sizing agent bath, followed by a dry process performed to obtain sizing agent-applied carbon fiber bundles, in order to solve a problem of wrapping of a carbon fiber bundle caused by sticking of a sizing agent solution to a guide roller, the first guide roller for the carbon fiber bundles after being immersed in the sizing agent bath and coming out of a liquid surface of the sizing agent bath is set to have a surface adhesive force of 0.2 N/cm² or less.

IPC 8 full level
D06B 3/02 (2006.01); **D06B 3/04** (2006.01); **D06B 23/02** (2006.01)

CPC (source: EP KR US)
D01F 9/12 (2013.01 - EP); **D01F 9/145** (2013.01 - US); **D01G 29/00** (2013.01 - EP); **D06B 3/02** (2013.01 - EP); **D06B 3/04** (2013.01 - KR US); **D06B 23/023** (2013.01 - KR); **D06B 23/026** (2013.01 - EP); **D01D 5/096** (2013.01 - EP); **D01F 9/22** (2013.01 - EP); **D06B 23/30** (2013.01 - EP); **D06M 2101/40** (2013.01 - KR); **D06M 2200/40** (2013.01 - KR); **D10B 2101/12** (2013.01 - EP)

Citation (search report)
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• [Y] JP 2002309475 A 20021023 - TORAY INDUSTRIES
• [Y] CN 205024441 U 20160210 - SHAANXI TIANCE NEW MATERIAL TECHNOLOGY CO LTD
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• See references of WO 2019012856A1

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IT202100006710A1

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)
EP 3653772 A1 20200520; EP 3653772 A4 20200722; CN 110709553 A 20200117; JP 6455637 B1 20190123; JP WO2019012856 A1 20190711; KR 102076465 B1 20200211; KR 20190141015 A 20191220; MX 2019014095 A 20200207; RU 2020102001 A 20210810; TW 201908565 A 20190301; US 2020123688 A1 20200423; WO 2019012856 A1 20190117

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EP 18832001 A 20180604; CN 201880038040 A 20180604; JP 2018021342 W 20180604; JP 2018529181 A 20180604; KR 20197036535 A 20180604; MX 2019014095 A 20180604; RU 2020102001 A 20180604; TW 107120161 A 20180612; US 201816615268 A 20180604