

Title (en)
METHOD FOR LAYING UP AND CONSOLIDATING DURING LAYING THERMOPLASTIC COMPOSITE COMPONENTS CONTAINING FIBROUS REINFORCEMENTS

Title (de)
VERFAHREN ZUM AUFEINANDERLEGEN UND KONSOLIDIEREN BEIM LEGEN VON THERMOPLASTISCHEN VERBUNDTHEILEN MIT FASERVERSTÄRKUNGEN

Title (fr)
PROCÉDÉ POUR LE DRAPAGE ET LA CONSOLIDATION À LA DÉPOSE DE PIÈCES COMPOSITES THERMOPLASTIQUES À RENFORT FIBREUX

Publication
EP 2726273 A1 20140507 (FR)

Application
EP 12730984 A 20120702

Priority
• FR 1155982 A 20110701
• EP 2012062862 W 20120702

Abstract (en)
[origin: WO2013004672A1] The invention relates to a method for laying up a strip (110) of fibres containing a thermoplastic polymer and for consolidating during laying of a component thus laid up, said method involving the steps consisting in: a. pre-consolidating a strip (115) through the pultrusion (120) of rovings (110) that have been pre-impregnated with a thermoplastic polymer through a die; b. storing said pre-consolidated strip in the form of a semifinished product; c. laying up said semifinished product on a ply (117) of the same kind, previously laid on a form (150) while pressing (165) said semifinished product (115) onto said ply (117) and heating the interface between the semifinished product and the ply (117) already laid to a temperature T capable of causing the semifinished product (115) to weld to said ply (117).

IPC 8 full level
B29C 70/52 (2006.01); **B29C 70/38** (2006.01); **B29K 101/12** (2006.01); **B29K 105/06** (2006.01)

CPC (source: EP US)
B29C 70/386 (2013.01 - EP US); **B29C 70/52** (2013.01 - EP US); **B32B 37/06** (2013.01 - US); **B29K 2071/00** (2013.01 - EP US); **B29K 2101/12** (2013.01 - EP US); **B29K 2271/00** (2013.01 - EP US); **B29K 2301/12** (2013.01 - EP US); **B29K 2307/04** (2013.01 - EP US); **B29K 2707/04** (2013.01 - EP US); **B32B 2305/10** (2013.01 - US); **B32B 2309/02** (2013.01 - US)

Citation (search report)
See references of WO 2013004672A1

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

DOCDB simple family (publication)
FR 2977187 A1 20130104; **FR 2977187 B1 20170609**; BR 112014000040 A2 20170207; BR 112014000040 B1 20210518; CA 2838915 A1 20130110; CA 2838915 C 20201201; EP 2726273 A1 20140507; US 2014246145 A1 20140904; WO 2013004672 A1 20130110; ZA 201309465 B 20140827

DOCDB simple family (application)
FR 1155982 A 20110701; BR 112014000040 A 20120702; CA 2838915 A 20120702; EP 12730984 A 20120702; EP 2012062862 W 20120702; US 201214130041 A 20120702; ZA 201309465 A 20131213