

Title (en)

METHOD FOR THE PRODUCTION OF METAL PARTS REINFORCED WITH CONTINUOUS THERMOPLASTIC FIBRES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON MIT KONTINUIERLICHEN THERMOPLASTISCHEN FASERN VERSTÄRKTEN METALLTEILEN

Title (fr)

PROCÉDÉ DE RÉALISATION DE PIÈCES MÉTALLIQUES RENFORCÉES DE FIBRES THERMOPLASTIQUES CONTINUES

Publication

EP 3352977 A1 20180801 (FR)

Application

EP 16784222 A 20160916

Priority

- FR 1501992 A 20150925
- FR 2016000139 W 20160916

Abstract (en)

[origin: WO2017051081A1] The invention relates to a method for producing a reinforced part (4), comprising the draping of unidirectional continuous fibres (31-34) on a metal part (1) equipped with an adhesive layer including at least a first thermoplastic polymer, said fibres being pre-impregnated with at least a second thermoplastic polymer, said draping comprising the automated placement of pre-impregnated fibres on the metal part using a compacting roller (21) and the heating of the pre-impregnated continuous fibres to be draped and the adhesive layer of the metal part to a temperature at least greater than or equal to the melting point of the second polymer, in order to weld the pre-impregnated fibres to the metal part.

IPC 8 full level

B29C 70/38 (2006.01); **B29C 70/68** (2006.01); **B32B 7/12** (2006.01); **B32B 15/06** (2006.01); **B29K 101/12** (2006.01); **B29L 31/30** (2006.01)

CPC (source: EP)

B29C 70/386 (2013.01); **B29C 70/68** (2013.01); **B32B 3/14** (2013.01); **B32B 5/028** (2013.01); **B32B 5/12** (2013.01); **B32B 7/05** (2018.12); **B32B 7/14** (2013.01); **B32B 15/14** (2013.01); **B29K 2101/12** (2013.01); **B29L 2031/3055** (2013.01); **B32B 7/12** (2013.01); **B32B 15/06** (2013.01); **B32B 2250/02** (2013.01); **B32B 2255/06** (2013.01); **B32B 2255/26** (2013.01); **B32B 2260/021** (2013.01); **B32B 2260/046** (2013.01); **B32B 2262/02** (2013.01); **B32B 2262/101** (2013.01); **B32B 2262/106** (2013.01); **B32B 2307/50** (2013.01); **B32B 2307/732** (2013.01); **B32B 2605/00** (2013.01)

Citation (search report)

See references of WO 2017051081A1

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)

WO 2017051081 A1 20170330; EP 3352977 A1 20180801; FR 3041660 A1 20170331; FR 3041660 B1 20171013

DOCDB simple family (application)

FR 2016000139 W 20160916; EP 16784222 A 20160916; FR 1501992 A 20150925