

Title (en)

METHOD FOR PRODUCING MULTI-LAYER COMPOSITE BODIES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON MEHRSCICHTIGEN VERBUNDKÖRPERN

Title (fr)

PROCÉDÉ DE FABRICATION DE COMPOSITES MULTICOUCHES

Publication

EP 2646214 A1 20131009 (DE)

Application

EP 11788867 A 20111201

Priority

- EP 10193678 A 20101203
- EP 10194560 A 20101210
- EP 2011071518 W 20111201
- EP 11788867 A 20111201

Abstract (en)

[origin: WO2012072740A1] The invention relates to a method for producing multi-layer composite bodies, characterized in that the following steps are carried out consecutively: (a) providing a negative or positive mold by means of power-modulated laser engraving with a surface structure in the form of an image or a pattern which comprises at least one element (D) that is different from geometric elements, numbers and letters, wherein the screen angles, hole depths or tapers within the surface structure are different; (b) optionally casting a negative mold from the positive mold; (c) spraying the negative mold with a plastic formulation, wherein the negative mold has a temperature between 50 and 200°C; (d) allowing the plastic formulation to solidify to form a film; (e) joining the film with a substrate (A); and (f) separating the mold, wherein steps (e) and (f) can be carried out in any arbitrary order.

IPC 8 full level

B29C 33/38 (2006.01); **B23K 26/00** (2006.01); **B23K 26/36** (2006.01); **B23K 26/38** (2006.01); **B29C 33/42** (2006.01); **B29C 41/08** (2006.01); **B29C 41/38** (2006.01); **B32B 27/06** (2006.01); **B32B 27/40** (2006.01); **B44C 1/22** (2006.01); **D06N 3/14** (2006.01); **G05B 19/4099** (2006.01); **B29K 75/00** (2006.01); **B29L 7/00** (2006.01); **B29L 9/00** (2006.01)

CPC (source: EP KR)

B29C 33/38 (2013.01 - KR); **B29C 33/3857** (2013.01 - EP); **B29C 33/42** (2013.01 - KR); **B29C 33/424** (2013.01 - EP); **B29C 41/08** (2013.01 - EP KR); **B29C 41/38** (2013.01 - EP KR); **B32B 3/30** (2013.01 - EP); **B32B 7/14** (2013.01 - EP); **B32B 9/025** (2013.01 - EP); **B32B 9/045** (2013.01 - EP); **B32B 21/08** (2013.01 - EP); **B32B 27/10** (2013.01 - EP); **B32B 27/12** (2013.01 - EP); **B32B 27/302** (2013.01 - EP); **B32B 27/308** (2013.01 - EP); **B32B 27/40** (2013.01 - EP); **D06N 3/14** (2013.01 - EP); **D06N 3/145** (2013.01 - EP); **B29C 33/405** (2013.01 - EP); **B29C 33/56** (2013.01 - EP); **B29K 2075/00** (2013.01 - EP); **B29K 2083/005** (2013.01 - EP); **B29L 2007/001** (2013.01 - EP); **B29L 2009/00** (2013.01 - EP); **B29L 2031/722** (2013.01 - EP); **B32B 2250/02** (2013.01 - EP); **B32B 2260/021** (2013.01 - EP); **B32B 2260/046** (2013.01 - EP); **B32B 2262/0276** (2013.01 - EP); **B32B 2305/026** (2013.01 - EP); **B32B 2307/724** (2013.01 - EP); **B32B 2451/00** (2013.01 - EP); **D06N 2211/28** (2013.01 - EP)

Citation (search report)

See references of WO 2012072740A1

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)

WO 2012072740 A1 20120607; CN 103237640 A 20130807; EP 2646214 A1 20131009; JP 2014500166 A 20140109; KR 20130124519 A 20131114; TW 201302461 A 20130116; TW I545010 B 20160811

DOCDB simple family (application)

EP 2011071518 W 20111201; CN 201180058145 A 20111201; EP 11788867 A 20111201; JP 2013541353 A 20111201; KR 20137017363 A 20111201; TW 100144473 A 20111202