

Title (en)  
COMPONENT COMPRISING AN INSERT AND A PLASTIC ENCAPSULATION, AND METHOD FOR THE PRODUCTION THEREOF

Title (de)  
BAUTEIL UMFASSEND EIN EINLEGETEIL UND EINE KUNSTSTOFFUMMANTELUNG SOWIE VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
COMPOSANT DE CONSTRUCTION COMPRENANT UN INSERT ET UN ENROBAGE PLASTIQUE, ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2501545 A2 20120926 (DE)**

Application  
**EP 10778654 A 20101116**

Priority

- EP 09176360 A 20091118
- EP 2010067521 W 20101116
- EP 10778654 A 20101116

Abstract (en)  
[origin: WO2011061162A2] The invention relates to a component comprising an insert and a plastic encapsulation made of at least two plastic components, wherein the insert is encapsulated by a first plastic component A and the first plastic component A is encapsulated by a second plastic component B, wherein the first plastic component A is made of: A1: 5 to 80 wt %, relative to the total weight of the components A1 and A2, of at least one polyester based on aliphatic and aromatic dicarboxylic acids and aliphatic dihydroxy compounds; A2: 20 to 95 wt %, relative to the total weight of the components A1 and A2, of at least one homo or copolyester selected from the group made up of polylactide (PLA), polycaprolactone, polyhydroxyalkanoates, and polyester made of aliphatic dicarboxylic acids and aliphatic diols; A3: 0.05 to 15 wt %, relative to the total weight of the components A1 and A2, a) of a copolymer comprising epoxide groups based on styrol, acrylic acid ester, and/or methacrylic acid ester, b) of a bisphenol-A epoxide, or c) of a natural oil, fatty acid ester, or fatty acid amide comprising epoxide groups; and the second plastic component B is made of B1: 50 to 100 wt % of at least one partially crystalline thermoplastic polyester based on aromatic dicarboxylic acids and aliphatic or aromatic dihydroxy compounds, and B2: 0 to 50 wt % of at least one thermoplastic styrol(co)polymer, each relative to the polymer portion of the second plastic component B.

IPC 8 full level  
**B32B 27/08** (2006.01); **B29C 45/00** (2006.01); **B29C 45/16** (2006.01); **B32B 27/26** (2006.01); **B32B 27/36** (2006.01); **H02G 3/08** (2006.01); **H02G 3/22** (2006.01); **H02G 15/013** (2006.01)

CPC (source: EP KR US)  
**B32B 3/08** (2013.01 - EP US); **B32B 7/12** (2013.01 - EP US); **B32B 19/02** (2013.01 - EP US); **B32B 19/08** (2013.01 - EP US); **B32B 27/08** (2013.01 - EP KR US); **B32B 27/30** (2013.01 - KR); **B32B 27/302** (2013.01 - EP KR US); **B32B 27/308** (2013.01 - EP US); **B32B 27/36** (2013.01 - EP KR US); **B32B 27/38** (2013.01 - EP KR US); **H02G 3/08** (2013.01 - KR); **H02G 15/013** (2013.01 - KR); **B32B 2250/24** (2013.01 - KR); **B32B 2262/0269** (2013.01 - EP US); **B32B 2262/101** (2013.01 - EP US); **B32B 2262/106** (2013.01 - EP US); **B32B 2264/062** (2013.01 - EP US); **B32B 2264/065** (2013.01 - EP US); **B32B 2264/10** (2013.01 - EP US); **B32B 2264/102** (2013.01 - EP US); **B32B 2307/54** (2013.01 - EP US); **B32B 2307/704** (2013.01 - EP US); **B32B 2333/12** (2013.01 - KR); **B32B 2367/00** (2013.01 - KR); **B32B 2571/00** (2013.01 - EP US); **B32B 2605/08** (2013.01 - EP US); **B32B 2605/18** (2013.01 - EP US); **H02G 15/013** (2013.01 - EP US); **Y10T 428/31616** (2015.04 - EP US); **Y10T 428/31681** (2015.04 - EP US); **Y10T 428/31786** (2015.04 - EP US)

Citation (search report)  
See references of WO 2011061162A2

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 2011061162 A2 20110526**; **WO 2011061162 A3 20110714**; BR 112012012027 A2 20160517; CN 102712177 A 20121003; CN 102712177 B 20151014; EP 2501545 A2 20120926; JP 2013511402 A 20130404; JP 5730320 B2 20150610; KR 20120099467 A 20120910; MY 160739 A 20170315; US 2012231280 A1 20120913

DOCDB simple family (application)  
**EP 2010067521 W 20101116**; BR 112012012027 A 20101116; CN 201080061658 A 20101116; EP 10778654 A 20101116; JP 2012539295 A 20101116; KR 20127015501 A 20101116; MY PI2012002113 A 20101116; US 201013510411 A 20101116