

## 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**

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## 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.

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