

Title (en)  
PLASTIC BODY WITH AN INORGANIC COATING METHOD FOR PRODUCTION AND USE THEREOF

Title (de)  
KUNSTSTOFFKÖRPER MIT ANORGANISCHER BESCHICHTUNG, VERFAHREN ZU IHRER HERSTELLUNG SOWIE DEREN VERWENDUNG

Title (fr)  
CORPS EN MATIERE PLASTIQUE PRESENTANT UN REVETEMENT INORGANIQUE, SON PROCEDE DE PRODUCTION ET SON UTILISATION

Publication  
**EP 1677961 A1 20060712 (DE)**

Application  
**EP 04763079 A 20040702**

Priority  
• EP 2004007235 W 20040702  
• DE 10345616 A 20030929

Abstract (en)  
[origin: US2007003756A1] The invention relates to a method for production of a plastic body, made from a plastic obtained by means of a radical polymerisation with single- or multi-sided, inorganic coating containing silicon. The coating of a substrate is firstly achieved with a paint composition, containing inorganic particles in a solvent which can optionally contain additional flow improvers. One or more of such coated substrates can be used for the construction of a polymerisation chamber, in which the coated sides lie within the chamber. After radical polymerisation of a monomer mixture in the presence of a polymerisation initiator, the internal inorganic coating of the substrate transfers into or onto the surfaces of the radically polymerised plastic or of the plastic body. The invention further relates to the corresponding plastic body and the uses thereof.

IPC 1-7  
**B29C 37/00**; **B29C 41/02**; **B29D 11/00**

IPC 8 full level  
**B29C 37/00** (2006.01); **B29C 39/02** (2006.01); **B29D 11/00** (2006.01); **B29C 41/08** (2006.01)

CPC (source: EP KR US)  
**B29C 37/0032** (2013.01 - EP US); **B29C 39/025** (2013.01 - EP US); **B29C 41/02** (2013.01 - KR); **B29D 11/00** (2013.01 - KR); **B29D 11/00865** (2013.01 - EP US); **C08J 5/00** (2013.01 - KR); **B29C 41/08** (2013.01 - EP US); **B29K 2105/0002** (2013.01 - EP US); **B29K 2995/0005** (2013.01 - EP US); **B29K 2995/0026** (2013.01 - EP US); **B29K 2995/0087** (2013.01 - EP US); **B29L 2007/002** (2013.01 - EP US); **B29L 2009/00** (2013.01 - EP US); **B29L 2011/00** (2013.01 - EP US); **B29L 2011/0016** (2013.01 - EP US); **B29L 2031/3061** (2013.01 - EP US); **Y10T 428/265** (2015.01 - EP US)

Citation (search report)  
See references of WO 2005039854A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2007003756 A1 20070104**; AU 2004283784 A1 20050506; BR PI0414901 A 20061107; CA 2538311 A1 20050506; CN 1835832 A 20060920; DE 10345616 A1 20050421; EP 1677961 A1 20060712; IL 174581 A0 20060820; JP 2007510531 A 20070426; KR 20060095571 A 20060831; MX PA06002980 A 20060614; NZ 545782 A 20081031; RU 2006114344 A 20080210; TW 200512232 A 20050401; WO 2005039854 A1 20050506; ZA 200602555 B 20070725

DOCDB simple family (application)  
**US 57307506 A 20060323**; AU 2004283784 A 20040702; BR PI0414901 A 20040702; CA 2538311 A 20040702; CN 200480023267 A 20040702; DE 10345616 A 20030929; EP 04763079 A 20040702; EP 2004007235 W 20040702; IL 17458106 A 20060327; JP 2006529956 A 20040702; KR 20067008140 A 20060427; MX PA06002980 A 20040702; NZ 54578204 A 20040702; RU 2006114344 A 20040702; TW 93122308 A 20040726; ZA 200602555 A 20060328