

Title (en)

PLASTIC MOULDING WITH BIDIMENSIONAL OR TRIDIMENSIONAL IMAGE STRUCTURES GENERATED BY INNER LASER ENGRAVING

Title (de)

KUNSTSTOFFFORMKÖRPER MIT DURCH LASER-INNENGRAVUR ERZEUGTEN ZWEI- ODER DREIDIMENSIONALEN BILDSTRUKTUREN

Title (fr)

CORPS MOULES EN MATIERE PLASTIQUE AYANT DES STRUCTURES IMAGES BIDIMENSIONNELLES OU TRIDIMENSIONNELLES PRODUITES PAR GRAVURE INTERIEURE AU LASER

Publication

EP 1856199 B1 20080604 (DE)

Application

EP 06743190 A 20060216

Priority

- EP 2006060035 W 20060216
- DE 102005011180 A 20050309

Abstract (en)

[origin: WO2006094881A1] Plastic mouldings are disclosed with bidimensional or tridimensional image structures generated by inner laser engraving on their inside. The plastic mouldings are made of plastic materials with a content of nanoscale metal oxides having a particle size ranging from 1 to 500 nm. Both the plastic material and the metal oxide contained therein are transparent to the laser light used to generate the image structures. The plastic materials of which the mouldings are made contain, in particular, 0.001 to 0.1 % by weight metal oxides with a particle size ranging from 5 to 100 nm. Typical metal oxides are nanoscale indium tin oxide or antimony tin oxide.

IPC 8 full level

C08K 3/22 (2006.01); **B41M 5/26** (2006.01)

CPC (source: EP)

B41M 5/26 (2013.01); **B41M 5/24** (2013.01)

Cited by

DE202011100305U1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102005011180 A1 20060914; AT E397639 T1 20080615; DE 502006000883 D1 20080717; EP 1856199 A1 20071121;
EP 1856199 B1 20080604; ES 2308743 T3 20081201; TW 200643079 A 20061216; TW I383015 B 20130121; WO 2006094881 A1 20060914

DOCDB simple family (application)

DE 102005011180 A 20050309; AT 06743190 T 20060216; DE 502006000883 T 20060216; EP 06743190 A 20060216;
EP 2006060035 W 20060216; ES 06743190 T 20060216; TW 95107837 A 20060308