

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 BIDIMENSIONELLES OU TRIDIMENSIONELLES
PRODUITES PAR GRAVURE INTERIEURE AU LASER

Publication
EP 1856199 B1 20080604 (DE)

Application
EP 06743190 A 20060216

Priority
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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.

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

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