

Title (en)

METHOD FOR PRODUCING A COMPONENT HAVING AT LEAST TWO COLOUR LAYERS FOR A MOTOR VEHICLE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WENIGSTENS ZWEI FARBSCHICHTEN AUFWEISENDEN BAUTEILS FÜR EIN KRAFTFAHRZEUG

Title (fr)

PROCÉDÉ POUR LA FABRICATION D'UN COMPOSANT COMPRENANT AU MOINS DEUX COUCHES DE COULEURS POUR UN VÉHICULE À MOTEUR

Publication

EP 3723991 B1 20221130 (DE)

Application

EP 18830142 A 20181207

Priority

- DE 102017129555 A 20171212
- EP 2018083907 W 20181207

Abstract (en)

[origin: WO2019115368A1] The present invention relates to a method for producing a component having at least two colour layers (1, 2) for a motor vehicle, wherein the colour layers (1, 2) are applied on a thin-walled carrier structure (3) that at least partially defines the geometry of the component, wherein the carrier structure (3) is made of a transparent or translucent polymer material and already has a three-dimensional geometry with at least one curvature of space before the colour layers (1, 2) are applied. The method has the following sequence of steps: coating and simultaneously masking a first region (6) or first regions (6) by applying the first colour layer (1) on the back (B) of the three-dimensional carrier structure (3) by means of an inkjet printer (10) that applies a liquid or powdery pigment ink or a liquid or powders dye ink onto the back (B) of the carrier structure (3) in order to form the first colour layer (1); simultaneously or subsequently hardening and/or solidifying the first colour layer (1), wherein the hardening and/or solidifying is carried out to some extent, partially or completely; applying the at least one further colour layer (2) at least to an unmasked second region (8) or at least to unmasked second regions (8) on the back (B) of the carrier structure.

IPC 8 full level

B60Q 1/26 (2006.01); **B05B 13/04** (2006.01); **B05D 3/06** (2006.01); **B05D 5/06** (2006.01); **B05D 7/00** (2006.01); **B41J 3/407** (2006.01); **B41M 5/00** (2006.01); **B60R 13/00** (2006.01); **C23C 14/04** (2006.01); **C25D 5/02** (2006.01); **C25D 7/00** (2006.01)

CPC (source: EP US)

B05D 5/06 (2013.01 - EP); **B41J 3/4073** (2013.01 - EP US); **C25D 7/00** (2013.01 - EP US); **B05B 13/0431** (2013.01 - EP); **B05D 3/067** (2013.01 - EP)

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)

DE 102017129555 A1 20190613; **DE 102017129555 B4 20230112**; EP 3723991 A1 20201021; EP 3723991 B1 20221130; WO 2019115368 A1 20190620

DOCDB simple family (application)

DE 102017129555 A 20171212; EP 18830142 A 20181207; EP 2018083907 W 20181207