

Title (en)

METHOD FOR PRODUCING A MICROSTRUCTURE SUPPORT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES MIKROSTRUKTURTRÄGERS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN SUPPORT MICROSTRUCTURÉ

Publication

**EP 2760676 A1 20140806 (DE)**

Application

**EP 12773213 A 20120925**

Priority

- DE 102011114750 A 20110929
- EP 2012004009 W 20120925

Abstract (en)

[origin: WO2013045073A1] The invention relates to a method for producing a microstructure (1) on a support (2), comprising: forming an embossing structure with elevations (25) and recesses (26) in a first main surface (23) of a support film (21), wherein the recesses are arranged in the form of the microstructure; coating the first main surface (23) with a colored radiation-curable composition (12), such that a colored coating is produced, which has a greater layer thickness in the recesses (26) than in the non-recessed areas (23, 25); optionally removing, with a doctor knife or by means of wiping, the radiation-curable composition (12) from the non-recessed areas (23, 25), such that, in the non-recessed areas (23, 25) only a tinting film (40) remains; irradiating the radiation-curable composition with radiation of an appropriate wavelength in the presence of oxygen or moisture, wherein the tinting film (40) remains substantially unhardened; and removing the tinting film (40) by coating with a stripping substance (42) in which the radiation-curable composition is soluble before the hardening, and stripping the tinting film (40) together with the stripping substance (42). The invention further relates to a microstructure support (3) which can be produced by the method, to a micro-optical representation arrangement (6) with the microstructure support according to the invention, and to an object which comprises a microstructure support (3) according to the invention or a micro-optical representation arrangement (6) with the microstructure support (3).

IPC 8 full level

**B42D 25/00** (2014.01)

CPC (source: EP US)

**B42D 25/21** (2014.10 - US); **B42D 25/342** (2014.10 - EP US); **B42D 25/425** (2014.10 - EP US); **B42D 25/44** (2014.10 - US); **B42D 2033/24** (2022.01 - EP); **B42D 2035/44** (2022.01 - EP)

Citation (search report)

See references of WO 2013045073A1

Cited by

CN114340906A

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)

**WO 2013045073 A1 20130404**; DE 102011114750 A1 20130404; EP 2760676 A1 20140806; EP 2760676 B1 20151118

DOCDB simple family (application)

**EP 2012004009 W 20120925**; DE 102011114750 A 20110929; EP 12773213 A 20120925