

Title (en)

METHOD FOR PRODUCING A MICROSTRUCTURE SUPPORT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES MIKROSTRUKTURTRÄGERS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN SUPPORT MICROSTRUCTURÉ

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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).

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