

Title (en)

METHOD FOR PRODUCING A SECURITY OR VALUABLE PRODUCT WITH A DIFFRACTIVE SECURITY ELEMENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SICHERHEITS- ODER WERTPRODUKTS MIT EINEM DIFFRAKTIVEN SICHERHEITSELEMENT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN PRODUIT DE SÉCURITÉ OU DE VALEUR COMPRENANT UN ÉLÉMENT DE SÉCURITÉ DIFFRACTIF

Publication

**EP 3475099 B1 20211215 (DE)**

Application

**EP 17777503 A 20170915**

Priority

- DE 102016117674 A 20160920
- EP 2017073237 W 20170915

Abstract (en)

[origin: WO2018054765A1] The invention relates to a method for producing a security or valuable product, particularly a security or valuable document, with a substrate and a diffractive security element that is directly connected to the substrate by means of an adhesive layer. The invention also relates to a security or valuable product produced by said method. The invention comprises the following steps: (i) a hot-melt adhesive and a latent-reactive adhesive are applied to a) a region of the substrate provided for the security element and/or b) the security element, either the hot-melt adhesive and latent-reactive adhesive being applied as a mixture or the hot-melt adhesive and the latent-reactive adhesive being applied separately from each other in sections, where an application temperature Ta1 of the hot-melt adhesive is lower than an application temperature Ta2 of the latent-reactive adhesive, and  $Ta1 \leq T1 \leq Ta2$  is valid for a temperature T1 during the application; (ii) the security element is placed on the substrate; and (iii) heating is carried out to a temperature T2, where  $T2 \geq Ta2$ .

IPC 8 full level

**B42D 25/24** (2014.01); **B42D 25/29** (2014.01); **B42D 25/328** (2014.01); **B42D 25/47** (2014.01)

CPC (source: EP)

**B41M 3/006** (2013.01); **B42D 25/328** (2014.10); **B42D 25/47** (2014.10); **G09F 3/0292** (2013.01); **G09F 3/0294** (2013.01); **B41M 3/14** (2013.01)

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 102016117674 A1 20180322**; EP 3475099 A1 20190501; EP 3475099 B1 20211215; WO 2018054765 A1 20180329

DOCDB simple family (application)

**DE 102016117674 A 20160920**; EP 17777503 A 20170915; EP 2017073237 W 20170915