

Title (en)

METHOD FOR PRODUCING A SECURITY ELEMENT, AND SECURITY ELEMENT

Title (de)

HERSTELLVERFAHREN FÜR EIN SICHERHEITSELEMENT UND SICHERHEITSELEMENT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT DE SÉCURITÉ ET ÉLÉMENT DE SÉCURITÉ

Publication

EP 4031380 B1 20230726 (DE)

Application

EP 20775818 A 20200916

Priority

- DE 102019006653 A 20190920
- DE 102019008021 A 20191119
- EP 2020025418 W 20200916

Abstract (en)

[origin: WO2021052630A1] The invention relates to a method for producing a security element (4) for producing value documents, such as banknotes (2), checks, or the like, wherein the production method has the following steps: providing a polymer film (12), forming a laterally structured microfibril structure (13) in the polymer film (12) under the effect of standing light waves (16, 16, 16b) using the interference between a reference radiation and a modulated object radiation in order to produce location-dependent crosslinking in the polymer film (12), and developing the film using a solvent such that the polymer film (12) produces a colorful optically variable motif in plan view of the security element (4).

IPC 8 full level

B42D 25/435 (2014.01)

CPC (source: CN EP)

B42D 25/29 (2014.10 - CN); **B42D 25/328** (2014.10 - CN EP); **B42D 25/435** (2014.10 - CN EP); **B42D 25/445** (2014.10 - 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)

WO 2021052630 A1 20210325; CN 114423619 A 20220429; CN 114423619 B 20230725; EP 4031380 A1 20220727; EP 4031380 B1 20230726

DOCDB simple family (application)

EP 2020025418 W 20200916; CN 202080064316 A 20200916; EP 20775818 A 20200916