

Title (en)

SECURITY ELEMENT, METHOD FOR PRODUCING SAME, AND DATA CARRIER EQUIPPED WITH THE SECURITY ELEMENT

Title (de)

SICHERHEITSELEMENT, VERFAHREN ZUM HERSTELLEN DESSELBEN UND MIT DEM SICHERHEITSELEMENT AUSGESTATTETER DATENTRÄGER

Title (fr)

ÉLÉMENT DE SÉCURITÉ, PROCÉDÉ DE PRODUCTION DE CE DERNIER ET SUPPORT DE DONNÉES ÉQUIPÉ DE L'ÉLÉMENT DE SÉCURITÉ

Publication

EP 3337675 A1 20180627 (DE)

Application

EP 16756945 A 20160816

Priority

- DE 102015010744 A 20150817
- EP 2016001396 W 20160816

Abstract (en)

[origin: WO2017028950A1] The invention relates to a method for producing a security element, comprising the steps of: a) providing a support which has an embossing lacquer layer that has a first, diffractive structure-forming relief structure, and a second, micromirror arrangement-forming relief structure; b) imprinting the first, diffractive structure-forming relief structure with a printing ink which is based on metallic platelet pigments that are designed in such a way that they spatially align themselves along the relief structure of the embossing lacquer layer; c) imprinting with a soluble wash ink such that the regions of the first, diffractive structure-forming relief structure and the second, micromirror arrangement-forming relief structure form recesses in the applied wash ink; d) applying a colored thin-film element over the whole surface and then washing off the wash ink such that the colored thin-film element remains in the regions of the first, diffractive structure-forming relief structure and the second, micromirror arrangement-forming relief structure in a fashion spatially aligned along the respective relief structure; and e) applying an adhesive layer.

IPC 8 full level

B42D 25/425 (2014.01); **B41M 3/14** (2006.01); **B42D 25/29** (2014.01); **B42D 25/324** (2014.01); **B42D 25/328** (2014.01); **B42D 25/378** (2014.01); **B42D 25/45** (2014.01)

CPC (source: EP)

B41M 3/148 (2013.01); **B42D 25/29** (2014.10); **B42D 25/324** (2014.10); **B42D 25/328** (2014.10); **B42D 25/378** (2014.10); **B42D 25/425** (2014.10); **B42D 25/45** (2014.10)

Citation (search report)

See references of WO 2017028950A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102015010744 A1 20170223; CN 107848322 A 20180327; CN 107848322 B 20190903; EP 3337675 A1 20180627; EP 3337675 B1 20191113; WO 2017028950 A1 20170223

DOCDB simple family (application)

DE 102015010744 A 20150817; CN 201680046509 A 20160816; EP 16756945 A 20160816; EP 2016001396 W 20160816