

Title (en)  
SECURITY ELEMENT, VALUE DOCUMENT SUBSTRATE, VALUE DOCUMENT EQUIPPED THEREWITH, AND PRODUCTION METHOD

Title (de)  
SICHERHEITSELEMENT, WERTDOKUMENTSUBSTRAT, MIT DEMSELBEN AUSGESTATTETES WERTDOKUMENT UND HERSTELLUNGSVERFAHREN

Title (fr)  
ÉLÉMENT DE SÉCURITÉ, SUBSTRAT DE DOCUMENT DE VALEUR, DOCUMENT DE VALEUR ÉQUIPÉ DE CE DERNIER ET PROCÉDÉ DE FABRICATION

Publication  
**EP 3468811 A1 20190417 (DE)**

Application  
**EP 17728445 A 20170606**

Priority  
• DE 102016007064 A 20160608  
• EP 2017000652 W 20170606

Abstract (en)  
[origin: WO2017211450A1] The invention relates to a method for producing a value document substrate, or a security element suitable for protecting value documents, comprising a) the provision of a substrate; b1) the printing of the substrate with metallic pigment flakes suitable for forming a reflective layer in a first substrate region, and the printing of the substrate with effect pigments that assume a different hue depending on the viewing angle in a second substrate region; b2) the step of embossing the first substrate region and the second substrate region such that (i) the substrate in the first substrate region has a relief structure that forms a diffractive structure, and the substrate in the second substrate region has a relief structure that forms a micro-mirror arrangement, or (ii) the substrate in the first substrate region has a relief structure that forms a micro-mirror arrangement, and the substrate in the second substrate region has a relief structure that forms a diffractive structure.

IPC 8 full level  
**B42D 25/324** (2014.01); **B42D 25/24** (2014.01); **B42D 25/29** (2014.01); **B42D 25/328** (2014.01); **B42D 25/351** (2014.01); **B42D 25/355** (2014.01); **B42D 25/373** (2014.01); **B42D 25/425** (2014.01)

CPC (source: EP)  
**B42D 25/24** (2014.10); **B42D 25/29** (2014.10); **B42D 25/324** (2014.10); **B42D 25/328** (2014.10); **B42D 25/351** (2014.10); **B42D 25/355** (2014.10); **B42D 25/373** (2014.10); **B42D 25/425** (2014.10)

Citation (search report)  
See references of WO 2017211450A1

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 102016007064 A1 20171214**; AU 2017276507 A1 20190117; AU 2017276507 B2 20211014; AU 2017276507 B9 20220224; EP 3468811 A1 20190417; EP 3468811 B1 20221012; WO 2017211450 A1 20171214

DOCDB simple family (application)  
**DE 102016007064 A 20160608**; AU 2017276507 A 20170606; EP 17728445 A 20170606; EP 2017000652 W 20170606