

Title (en)

OPTICALLY VARIABLE SECURITY ELEMENT, PRODUCTION PROCESS AND EMBOSsing ARRANGEMENT

Title (de)

OPTISCH VARIABLES SICHERHEITSELEMENT, HERSTELLUNGSVERFAHREN UND PRÄGEANORDNUNG

Title (fr)

ÉLÉMENT DE SÉCURITÉ OPTIQUEMENT VARIABLE, PROCÉDÉ DE PRODUCTION ET AGENCEMENT DE GAUFRAGE

Publication

EP 4313614 A1 20240207 (DE)

Application

EP 22700459 A 20220112

Priority

- DE 102021001582 A 20210325
- EP 2022025010 W 20220112

Abstract (en)

[origin: WO2022199884A1] The invention relates to an optically variable security element (20) for safeguarding articles of value. The security element has a feature layer (24) containing, in a common plane, first and second feature regions (30, 40) arranged so as to accurately fit together. The first feature regions (30) contain a first embossing lacquer layer of a first embossing lacquer (32) into which an embossed structure (34) that creates a first optical effect has been embossed. The second feature regions (40) contain a second embossing lacquer layer of a second embossing lacquer (42) into which an embossed structure (44) that creates a second, different optical effect has been embossed. The first and second embossing lacquers (32, 42) have different solidification properties and different optical properties. The invention also relates to a production process for such an optically variable security element, and to embossing arrangements comprising a semifinished security element product and means of impressing an embossed structure.

IPC 8 full level

B42D 25/324 (2014.01); **B42D 25/36** (2014.01); **B42D 25/425** (2014.01)

CPC (source: EP US)

B42D 25/324 (2014.10 - EP US); **B42D 25/36** (2014.10 - EP); **B42D 25/425** (2014.10 - EP US)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102021001582 A1 20220929; CN 116997472 A 20231103; EP 4313614 A1 20240207; US 2024165986 A1 20240523;
WO 2022199884 A1 20220929

DOCDB simple family (application)

DE 102021001582 A 20210325; CN 202280022310 A 20220112; EP 2022025010 W 20220112; EP 22700459 A 20220112;
US 202218552234 A 20220112