

Title (en)  
OPTICALLY VARIABLE SECURITY ELEMENT

Title (de)  
OPTISCH VARIABLES SICHERHEITSELEMENT

Title (fr)  
ÉLÉMENT DE SÉCURITÉ OPTIQUEMENT VARIABLE

Publication  
**EP 4013624 B1 20231122 (DE)**

Application  
**EP 20753874 A 20200807**

Priority  
• DE 102019005707 A 20190814  
• EP 2020025365 W 20200807

Abstract (en)  
[origin: WO2021028075A1] The invention relates to an optically variable security element (12) for securing valuable items, the surface extent of which defines a z-axis perpendicular thereto, comprising a multicolour reflective surface area (20), wherein: the multicolour reflective surface area (20) contains two relief structures (24, 34) which are arranged in the z-direction in different vertical levels and form a relief structure lying lower and a relief structure lying higher; the relief structure (24) lying lower is provided with a first colour coating (26) following the relief shape, and the relief structure (34) lying higher is provided with a second colour coating (36) following the relief shape; a light-permeable coloured planar structure (44) is arranged in the z-direction at a vertical level between the two relief structures (24, 34); the two relief structures (24, 34) and the planar structure (44) overlap in an overlapping region; and the second colour coating (36) of the relief structure (34) lying higher comprises at least one recess (54) in the overlapping region, in which recess, when viewing the security element, the relief structure (24) lying lower appears owing to the combined colour effect of the coloured planar structure (44) and the first colour coating (26).

IPC 8 full level  
**B42D 25/324** (2014.01); **B42D 25/351** (2014.01); **B42D 25/373** (2014.01)

CPC (source: CN EP)  
**B42D 25/324** (2014.10 - CN EP); **B42D 25/351** (2014.10 - CN EP); **B42D 25/373** (2014.10 - CN 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 2021028075 A1 20210218**; CN 114245772 A 20220325; CN 114245772 B 20231031; DE 102019005707 A1 20210218; EP 4013624 A1 20220622; EP 4013624 B1 20231122

DOCDB simple family (application)  
**EP 2020025365 W 20200807**; CN 202080056868 A 20200807; DE 102019005707 A 20190814; EP 20753874 A 20200807