

Title (en)
SECURITY ELEMENT COMPRISING A LENTICULAR IMAGE

Title (de)
SICHERHEITSELEMENT MIT LINSENRASTERBILD

Title (fr)
ÉLÉMENT DE SÉCURITÉ MUNI D'UNE IMAGE LENTICULAIRE

Publication
EP 3823840 B1 20240925 (DE)

Application
EP 19742128 A 20190709

Priority
• DE 102018005697 A 20180719
• EP 2019000211 W 20190709

Abstract (en)
[origin: WO2020015848A1] The invention relates to a security element (12) for securing security papers, valuable documents and other data carriers (10), said element comprising a lenticular image which contains a lenticular screen (24), consisting of a plurality of microlenses (26), and a radiation-sensitive motif layer (30) arranged at a distance from the lenticular screen, wherein the radiation-sensitive motif layer (30) contains, in one motif region, a plurality of transparency regions (40) which are generated by the action of radiation. According to the invention, the radiation-sensitive motif layer (30) has a colour sublayer (32) and a contrast sublayer (34) at least in the motif region, wherein the colour sublayer (32) comprises colour-imparting effect pigments which have a colouring effect against the background of the contrast sublayer (32) and which act transparently without a contrast layer.

IPC 8 full level
B42D 25/324 (2014.01); **B42D 25/29** (2014.01); **B42D 25/351** (2014.01); **B42D 25/36** (2014.01); **B42D 25/435** (2014.01)

CPC (source: EP US)
B42D 25/29 (2014.10 - EP); **B42D 25/324** (2014.10 - EP US); **B42D 25/351** (2014.10 - EP US); **B42D 25/36** (2014.10 - EP); **B42D 25/364** (2014.10 - US); **B42D 25/378** (2013.01 - US); **B42D 25/435** (2014.10 - EP US); **B42D 25/23** (2014.10 - US); **B42D 25/29** (2014.10 - US); **B42D 25/355** (2014.10 - 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

DOCDB simple family (publication)
WO 2020015848 A1 20200123; CN 112423993 A 20210226; CN 112423993 B 20220211; DE 102018005697 A1 20200123; EP 3823840 A1 20210526; EP 3823840 B1 20240925; US 11400748 B2 20220802; US 2021276359 A1 20210909

DOCDB simple family (application)
EP 2019000211 W 20190709; CN 201980045712 A 20190709; DE 102018005697 A 20180719; EP 19742128 A 20190709; US 201917261270 A 20190709