

Title (en)  
PARALLAX EFFECT SECURITY ELEMENT

Title (de)  
SICHERHEITSELEMENT MIT PARALLAX-EFFEKT

Title (fr)  
ELEMENT DE SECURITE A EFFET DE PARALLAXE

Publication  
**EP 2454102 B2 20230301 (FR)**

Application  
**EP 10740387 A 20100719**

Priority  
• IB 2010053286 W 20100719  
• FR 0955003 A 20090717

Abstract (en)  
[origin: WO2011007344A1] The present invention relates to a security article, in particular a security document, comprising a security element (1) that comprises an optical system, comprising: a transparent or translucent substrate (2); on the side of a first surface (2a, 2b) of the substrate (2), a combined image comprising a plurality of encoded interleaved images (I1); on the side of a second surface (2a, 2b) of the substrate (2), opposite the first, an exposing screen (4) placed on top of the combined image, which enables the encoded images (I1) to be observed during a change in the direction of observing the security element (1) relative to the optical system, wherein the encoded images (I1) are observable from the side of the first surface and from the side of the second surface of the substrate (2).

IPC 8 full level  
**B42D 25/351** (2014.01); **B42D 25/355** (2014.01); **G02B 27/20** (2006.01); **G09F 3/02** (2006.01); **G09F 3/03** (2006.01)

CPC (source: EP US)  
**B42D 25/342** (2014.10 - US); **B42D 25/351** (2014.10 - EP US); **B42D 25/355** (2014.10 - EP US); **B42D 25/373** (2014.10 - US); **B42D 25/378** (2013.01 - US); **G09F 3/0341** (2013.01 - EP US); **B42D 2033/10** (2022.01 - EP); **B42D 2035/16** (2022.01 - EP); **B42D 2035/20** (2022.01 - EP); **B42D 2035/36** (2022.01 - EP); **G09F 2003/0277** (2013.01 - EP US)

Citation (opposition)  
Opponent :  
• EP 2123470 A1 20091125 - GEMALTO OY [FI]  
• EP 1580025 A2 20050928 - HUECK FOLIEN GMBH [AT]  
• DE 102006037377 A1 20080214 - ZWEIGNIEDERLASSUNG DER HUHTAMAKI DEUTSCHLAND GMBH & CO. KG  
• EP 1527901 A1 20050504 - ALCAN TECH & MAN LTD [CH]  
• US 2006003295 A1 20060105 - HERSCH ROGER D [CH], et al  
• US 4892336 A 19900109 - KAULE WITTICH [DE], et al  
• WO 2008080619 A1 20080710 - ZINTZMEYER JOERG [CH]  
• WO 2004034313 A1 20040422 - COMMW SCIENT AND IND RES [AU], et al  
• US 6494491 B1 20021217 - ZEITER PATRIK [CH], et al  
• AU 488652 B2 19760401 - COMMW SCIENT IND RES ORG  
• WO 8300659 A1 19830303 - COMMW SCIENT IND RES ORG [AU], et al  
• EP 0388090 A1 19900919 - DE LA RUE CO PLC [GB]  
• US 2009008458 A1 20090108 - VAST NATHALIE [FR], et al  
• CA 2542632 A1 20050331 - HUECK FOLIEN GMBH [AT]  
• WO 9747478 A1 19971218 - THOMAS DE LA RUE INTERNATIONAL [GB], et al  
• 'Optical Document Security' Rudolf L. van Renesse, Artech House 2005, pages 76-83

Cited by  
WO2018115515A1; WO2022189584A1; FR3120567A1

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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2011007344 A1 20110120**; BR 112012000899 A2 20161116; BR 112012000899 B1 20191217; CA 2768203 A1 20110120; CA 2768203 C 20180807; EP 2454102 A1 20120523; EP 2454102 B1 20140625; EP 2454102 B2 20230301; ES 2499466 T3 20140929; ES 2499466 T5 20230614; FR 2948218 A1 20110121; FR 2948218 B1 20111111; HK 1171207 A1 20130322; PL 2454102 T3 20141128; PL 2454102 T5 20240205; SI 2454102 T1 20141030; US 2012174447 A1 20120712

DOCDB simple family (application)  
**IB 2010053286 W 20100719**; BR 112012000899 A 20100719; CA 2768203 A 20100719; EP 10740387 A 20100719; ES 10740387 T 20100719; FR 0955003 A 20090717; HK 12111995 A 20121122; PL 10740387 T 20100719; SI 201030740 T 20100719; US 201013384561 A 20100719