

Title (en)
SECURITY ELEMENT HAVING A 3D COLOR EFFECT AND VERIFICATION METHOD AND VERIFICATION DEVICE FOR SUCH A SECURITY ELEMENT

Title (de)
SICHERHEITSELEMENT MIT EINEM 3D-FARBEFFEKT SOWIE VERIFIKATIONSVERFAHREN UND VERIFIKATIONSVORRICHTUNG FÜR EIN SOLCHES SICHERHEITSELEMENT

Title (fr)
ÉLÉMENT DE SÉCURITÉ DOTÉ D'UN EFFET CHROMATIQUE TRIDIMENSIONNEL ET PROCÉDÉ DE VÉRIFICATION ET DISPOSITIF DE VÉRIFICATION POUR UN TEL ÉLÉMENT DE SÉCURITÉ

Publication
EP 2686173 A1 20140122 (DE)

Application
EP 12709584 A 20120312

Priority
• DE 102011005518 A 20110314
• EP 2012054262 W 20120312

Abstract (en)
[origin: WO2012123407A1] The invention relates to security element (2) for causing a 3D color effect, comprising graphical information (3), which comprises at least one first information portion (3-1) and one second information portion (3-2), wherein the first information portion and the second information portion have different spectral distributions in the remission spectrum and/or transmission spectrum for broadband excitation by electromagnetic radiation, wherein the first information portion (3-1) and the second information portion (3-2) are designed in such a way that the respective remission spectrum and/or transmission spectrum thereof is dominated by a spectral distribution of a spectral color. The invention further relates to a method for verifying the security element and a verification device (20).

IPC 8 full level
B42D 15/00 (2006.01); **B42D 25/29** (2014.01); **B44F 7/00** (2006.01); **G07D 7/00** (2006.01); **G07D 7/12** (2006.01)

CPC (source: EP US)
B42D 25/21 (2014.10 - US); **B42D 25/29** (2014.10 - EP); **B42D 25/305** (2014.10 - US); **B44F 7/00** (2013.01 - EP); **G07D 7/12** (2013.01 - EP US); **G07D 7/1205** (2017.04 - EP); **G07D 7/121** (2013.01 - EP US); **B42D 25/387** (2014.10 - EP); **B42D 2033/20** (2022.01 - EP); **B42D 2035/24** (2022.01 - EP); **B42D 2035/34** (2022.01 - EP)

Citation (search report)
See references of WO 2012123407A1

Citation (third parties)
Third party :
• DE 102009024447 A1 20101216 - GIESECKE & DEVRIENT GMBH [DE]
• "CHROMOSTEREOPSIS", WIKIPEDIA, THE FREE ENCYCLOPEDIA, 2 December 2014 (2014-12-02), pages 1 - 10, XP003035834, Retrieved from the Internet <URL:HTTPS://EN.WIKIPEDIA.ORG/WIKI/CHROMOSTEREOPSIS>
• FAUBERT J.: "SEEING DEPTH IN COLOUR: MORE THAN JUST WHAT MEETS THE EYES", VISION RESEARCH, May 1994 (1994-05-01), pages 1165 - 1186, XP024309188, DOI: 10.1016/0042-6989(94)90299-2
• IAN P. HOWARD AND BRIAN J. ROGERS: "BINOCULAR VISION AND STREREOPSIS, 1ST ED.", 30 November 1995, OXFORD PSYCHOLOGY SERIES, ISBN: 0195084764, pages: 306 - 307, XP003035835

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)
DE 102011005518 A1 20120920; EP 2686173 A1 20140122; EP 2686173 B1 20150715; WO 2012123407 A1 20120920

DOCDB simple family (application)
DE 102011005518 A 20110314; EP 12709584 A 20120312; EP 2012054262 W 20120312