Title (en)

OPTICALLY VARIABLE SECURITY ELEMENT WITH TILT IMAGE

Title (de)

OPTISCH VARIABLES SICHERHEITSELEMENT MIT KIPPBILD

Title (fr)

ELEMENT DE SÉCURITÉ OPTIQUEMENT VARIABLE AVEC IMAGE D'INCLINAISON

Publication

EP 2595817 A1 20130529 (DE)

Application

EP 11746165 A 20110718

Priority

- DE 102010031713 A 20100721
- EP 2011003587 W 20110718

Abstract (en)

[origin: CA2803191A1] The invention relates to an optically variable security element (20) for securing data carriers, having a flip image comprising first and second identifiers (24, 26) which can be detected from different first and second viewing directions (40, 42). According to the invention, the first and second identifiers (24, 26) of the flip image are present in an optically variable recording layer (30), which has a reflective layer (52) produced by a vacuum deposition process, and the security element (20) contains a viewing element screen (32) which is spaced apart from the recording layer (30) and which, when viewed from the first or second viewing direction (40, 42), reveals the first or second identifiers (24, 26), respectively.

IPC 8 full level

B42D 15/00 (2006.01); **G07D 7/00** (2006.01)

CPC (source: BR EP US)

B42D 15/00 (2013.01 - US); **B42D 25/29** (2014.10 - EP US); **B42D 25/30** (2014.10 - US); **B42D 25/41** (2014.10 - BR US);
B42D 15/00 (2013.01 - BR); B42D 25/29 (2014.10 - BR); B42D 25/30 (2014.10 - BR); B42D 2035/14 (2022.01 - EP);
B42D 2035/24 (2022.01 - EP); B42D 2035/36 (2022.01 - EP); B42D 2035/44 (2022.01 - EP); Y10T 29/49826 (2015.01 - EP US)

Citation (search report)

See references of WO 2012010286A1

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 102010031713 A1 20120126; BR 112013000573 A2 20160705; BR 112013000573 A8 20171010; BR 112013000573 B1 20200414;
CA 2803191 A1 20120126; CA 2803191 C 20150407; EP 2595817 A1 20130529; EP 2595817 B1 20150318; US 2013193679 A1 20130801;
US 9987875 B2 20180605; WO 2012010286 A1 20120126

DOCDB simple family (application)

DE 102010031713 A 20100721; BR 112013000573 A 20110718; CA 2803191 A 20110718; EP 11746165 A 20110718;
EP 2011003587 W 20110718; US 201113810749 A 20110718