

Title (en)

INFORMATION CARRIER WITH AN OPTICALLY VARIABLE STRUCTURE (VARIANT EMBODIMENTS)

Title (de)

INFORMATIONSTRÄGER MIT EINER OPTISCH VARIABLEN STRUKTUR (VERSCHIEDENE AUSFÜHRUNGSFORMEN)

Title (fr)

SUPPORT D'INFORMATIONS À STRUCTURE OPTIQUE VARIABLE (ET VARIANTES)

Publication

**EP 2562726 A1 20130227 (EN)**

Application

**EP 11814855 A 20110216**

Priority

- RU 2010132328 A 20100803
- RU 2011000084 W 20110216

Abstract (en)

The invention relates to data carriers with an optically variable structure. Data carrier comprises a coating made in the form of a printed screen, and a three-dimensional screen. The three-dimensional screen is at least partially arranged on the coating. The width of lines and distance between lines of the printed and three-dimensional screens and the mutual orientation of the screens are selected to create a moiré image; when the carrier is viewed at a direct angle to the surface the coating is fully discernible, while the moiré image is concealed. When the carrier is viewed at an acute angle the part of the coating that is disposed on the three-dimensional screen surfaces arranged parallel to the viewing direction or occluded from the viewer by elements of the three-dimensional screen is unrecognizable. In this case, the part of the coating that is disposed on the three-dimensional screen surfaces facing the viewer and not occluded from the viewer by elements of the three-dimensional screen is recognizable, whereby the moiré image becomes visible. Border between two colors of the printed screen is arranged mostly on inclined areas of the three-dimensional screen. When the inclination angle of the carrier is changed, the borders of color stripes on the carrier appear to move.

IPC 8 full level

**G07D 7/12** (2006.01); **B41D 3/14** (2006.01)

CPC (source: EP US)

**B41D 3/14** (2013.01 - EP); **B41M 3/148** (2013.01 - EP US); **B42D 25/342** (2014.10 - EP US); **G07D 7/12** (2013.01 - EP US); **B42D 25/324** (2014.10 - EP); **B42D 2035/16** (2022.01 - EP); **B42D 2035/34** (2022.01 - EP)

Cited by

EP3015278A4; EP2985154A4; CN107107649A; JP2017538604A; RU2697485C2; EP3616937A1; US11511559B2; WO2016020066A3; WO2019108077A1

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)

**EP 2562726 A1 20130227**; **EP 2562726 A4 20140312**; **EP 2562726 B1 20170329**; CN 103140881 A 20130605; CN 103140881 B 20160518; RU 2440248 C1 20120120; WO 2012018278 A1 20120209

DOCDB simple family (application)

**EP 11814855 A 20110216**; CN 201180038144 A 20110216; RU 2010132328 A 20100803; RU 2011000084 W 20110216