

Title (en)

A security document with a see-through feature, and methods for manufacturing and authentication thereof

Title (de)

Sicherheitsdokument mit durchsichtigem Merkmal und Verfahren zu dessen Herstellung und Authentifizierung

Title (fr)

Document de sécurité avec fonction de visualisation et procédés de fabrication et d'authentification associés

Publication

EP 2559563 B1 20140326 (EN)

Application

EP 11461534 A 20110818

Priority

EP 11461534 A 20110818

Abstract (en)

[origin: EP2559563A1] A method for manufacturing a security document by providing transparent external layers (101, 102), at least one semi-transparent internal layer (103-106) with a see-through area (110) which is more transparent than the majority of the remainder of the document, laminating the layers (101-106) to form the security document and applying to the document, before and/or after lamination of layers (101-106), personalized data (121-123) and a see-through security feature in the see-through area (110), the see-through feature comprising a first partial image (111) applied on one side of the at least one semi-transparent internal layer (104) and a second partial image (112) applied on the other side of the at least one semi-transparent internal layer (104), wherein the first and second partial images (111, 112) form a complete image (113) when viewed in transmitted light. The method further comprises the steps of, before applying the see-through security feature: obtaining the personalized data (121-123) for the security document, obtaining the complete image (113) for the see-through security feature, and dividing the complete image (113) to the first partial image (111) and to the second partial image (112) using a function having a value dependent on at least part of the personalized data (121-123) for the security document.

IPC 8 full level

B42D 25/351 (2014.01); **B41M 3/14** (2006.01); **G07D 7/20** (2006.01)

CPC (source: EP US)

B42D 25/351 (2014.10 - EP US); **B42D 25/45** (2014.10 - EP US); **G07D 7/003** (2017.04 - EP); **G07D 7/2016** (2013.01 - EP); **B41M 3/14** (2013.01 - EP); **B41M 5/24** (2013.01 - EP)

Cited by

DE102016007140A1; DE102019000149A1; WO2018010725A1; EP3528216A1; EP3681730A4; US10479128B2; US2016176219A1; US9944109B2; EP3286012B1; IT201800002811A1; US10336123B2; CN110431024A; JPWO2018164237A1; WO2017211444A1; WO2016169650A1; WO2018164237A1; US10800201B2; EP3276909A1; DE102016009258A1; WO2020144000A1; WO2019046975A1; DE102023100676B3; EP3481642B1; EP3419835B1

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 2559563 A1 20130220; **EP 2559563 B1 20140326**; PL 2559563 T3 20141031

DOCDB simple family (application)

EP 11461534 A 20110818; PL 11461534 T 20110818