

Title (en)

METHOD FOR THE PRODUCTION OF SECURITY ELEMENTS HAVING MUTUALLY REGISTERED DESIGNS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON SICHERHEITSELEMENTEN MIT ZUEINANDER GEPASSTEN MOTIVEN

Title (fr)

PROCÉDÉ POUR PRODUIRE DES ÉLÉMENTS DE SÉCURITÉ PRÉSENTANT DES MOTIFS EN REGISTRE

Publication

**EP 2340175 A2 20110706 (DE)**

Application

**EP 09777643 A 20090804**

Priority

- EP 2009005640 W 20090804
- DE 102008036481 A 20080805

Abstract (en)

[origin: WO2010015381A2] The invention relates to a method for producing a security element (1), a security element (1) obtained according to the claimed method, transfer materials containing the claimed security elements, and objects of value secured by means of the claimed security elements. The claimed security element (1) comprises at least two functional layers (12, 22), each of which forms a design. The designs are congruous, or one design represents a photographic negative of the other design. In the claimed method, the design of one functional layer (12) is transferred into the other functional layer (22) with the help of an adhesive layer (30). An accurate copy of the design of the first functional layer is reproduced in the adhesive layer, and said copy of the design in the adhesive layer is used for reproducing an accurate copy of said design or the photographic negative thereof in the second functional layer. The design is successfully transferred from one functional layer into the other one as a result of the fact that the adhesive has zones with different adhesiveness because the irradiation penetrates the first functional layer, and only the very adhesive zones adhere to the second functional layer. The zones of the functional layer that do not adhere are removed.

IPC 8 full level

**B44C 1/17** (2006.01); **B32B 37/02** (2006.01)

CPC (source: EP US)

**B42D 25/21** (2014.10 - US); **B42D 25/324** (2014.10 - US); **B42D 25/351** (2014.10 - US); **B42D 25/355** (2014.10 - EP US); **B42D 25/373** (2014.10 - US); **B42D 25/425** (2014.10 - US); **B42D 25/445** (2014.10 - US); **B42D 25/455** (2014.10 - US); **B42D 25/47** (2014.10 - EP US); **B44C 1/1704** (2013.01 - EP US); **B42D 25/328** (2014.10 - EP US); **B42D 2035/08** (2022.01 - EP); **B42D 2035/24** (2022.01 - EP); **Y10T 156/1039** (2015.01 - EP US)

Citation (search report)

See references of WO 2010015381A2

Cited by

DE102016012111A1; EP3501840A1; DE102017011917A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**DE 102008036481 A1 20100211**; CN 102177033 A 20110907; CN 102177033 B 20130612; EP 2340175 A2 20110706; EP 2340175 B1 20121010; RU 2011108210 A 20121027; RU 2496653 C2 20131027; RU 2496653 C9 20140510; US 2011127762 A1 20110602; US 9238383 B2 20160119; WO 2010015381 A2 20100211; WO 2010015381 A3 20100408

DOCDB simple family (application)

**DE 102008036481 A 20080805**; CN 200980136714 A 20090804; EP 09777643 A 20090804; EP 2009005640 W 20090804; RU 2011108210 A 20090804; US 200913055508 A 20090804