

Title (en)

METHODS OF MANUFACTURE OF SECURITY DOCUMENTS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON SICHERHEITSDOKUMENTEN

Title (fr)

PROCÉDÉS DE FABRICATION DES DOCUMENTS DE SÉCURITÉ

Publication

EP 2996885 B2 20201118 (EN)

Application

EP 14725517 A 20140515

Priority

- GB 201308959 A 20130517
- GB 2014051486 W 20140515

Abstract (en)

[origin: WO2014184559A1] A method of manufacturing a security document is disclosed, comprising:(a) providing a polymeric substrate having first and second surfaces;then performing the following steps (b), (c) and (d) in any order:(b) applying a curable material to a first region of the substrate on its first surface;(c) forming the curable material such that its surface distal from the substrate follows the contours of an optically variable effect generating relief structure and curing the curable material such that the relief structure is retained by the cured material; (d) applying one or more coating layers to the first and/or second surface(s) of the substrate to define a viewing region, the coating layer(s) being absent at least on the first surface across all or part of the first region;then:(e) applying a masking substance to the first surface of the substrate, excluding at least a second region which includes at least part of the first region, the overlapping portions of the first and second regions defining a third region; (f) depositing a reflection enhancing material onto the first surface of the substrate such that, in the third region, the reflection enhancing material is deposited onto the cured material and follows the contours of the relief structure;wherein the masking substance impedes the retention of the reflection enhancing material such that the reflection enhancing material is retained only in areas to which the masking substance was not applied.

IPC 8 full level

B42D 25/328 (2014.01); **B42D 25/351** (2014.01)

CPC (source: EP GB)

B41M 3/14 (2013.01 - GB); **B42D 25/29** (2014.10 - EP); **B42D 25/324** (2014.10 - GB); **B42D 25/328** (2014.10 - GB);
B42D 2033/04 (2022.01 - EP); **B42D 2033/10** (2022.01 - EP); **B42D 2033/18** (2022.01 - EP); **B42D 2033/30** (2022.01 - EP GB);
B42D 2035/20 (2022.01 - GB); **B42D 2035/36** (2022.01 - EP)

Citation (opposition)

Opponent :

- WO 2011116425 A1 20110929 - SECURENCY INT PTY LTD [AU], et al
- WO 2012019226 A1 20120216 - SECURENCY INT PTY LTD [AU], et al
- EP 0338378 A2 19891025 - AMERICAN BANK NOTE HOLOGRAPHIC [US]
- WO 9913157 A1 19990318 - GIESECKE & DEVRIENT GMBH [DE], et al
- WO 2006002756 A2 20060112 - GIESECKE & DEVRIENT GMBH [DE], et al
- US 3935334 A 19760127 - NARUI HIROSHI, et al

Cited by

DE102018201871B3; DE102017218804A1; DE102017218802B3; DE102017218801B3; DE102017218800B3; DE102017218803B3;
DE102017218799B3; DE102017218805B3; WO2019076805A1; WO2022063424A1; EP3687828B1

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)

WO 2014184559 A1 20141120; **WO 2014184559 A8 20150611**; AU 2014266990 A1 20151112; AU 2014266990 B2 20180308;
AU 2014266990 C1 20190404; CN 105339181 A 20160217; CN 105339181 B 20180209; EP 2996885 A1 20160323; EP 2996885 B1 20170621;
EP 2996885 B2 20201118; GB 201308959 D0 20130703; GB 2514337 A 20141126; GB 2514337 B 20200115; MX 2015015141 A 20160218;
MX 346632 B 20170327

DOCDB simple family (application)

GB 2014051486 W 20140515; AU 2014266990 A 20140515; CN 201480028640 A 20140515; EP 14725517 A 20140515;
GB 201308959 A 20130517; MX 2015015141 A 20140515