

Title (en)
A METHOD FOR GENERATING AT LEAST ONE SECURITY FEATURE ON A BANKNOTE AND/OR ON A TAX STAMP USING LASER WRITING

Title (de)
VERFAHREN ZUM ERZEUGEN VON MINDESTENS EINEM SICHERHEITSMERKMAL AUF EINER BANKNOTE UND/ODER AUF EINER
STEUERMARKE MITTELS LASERSCHRIFT

Title (fr)
PROCÉDÉ DE GÉNÉRATION D'AU MOINS UNE CARACTÉRISTIQUE DE SÉCURITÉ SUR UN BILLET DE BANQUE ET/OU SUR UN TIMBRE
FISCAL PAR ÉCRITURE AU LASER

Publication
EP 4324658 A1 20240221 (EN)

Application
EP 22191226 A 20220819

Priority
EP 22191226 A 20220819

Abstract (en)
A method for generating at least one security feature on a banknote and/or a tax stamp comprises the following steps:i) providing a substrate sheet in form of a sheet of paper or of a polymer foil or a composite comprising at least one paper layer and at least one polymer foil,ii) printing onto each of the two surfaces of the substrate sheet each one or more printing ink layers so as to generate at least one banknote and/or at least one tax stamp on the substrate sheet, wherein each printing ink layer extends over a part or the whole of the surface area of the substrate sheet, and wherein the printing ink of at least one of the printing ink layers comprises a) at least one pigment and/or at least one dye, which changes its luminescence intensity upon exposition to laser radiation and/or b) at least one pigment and/or at least one dye, which changes its infrared absorption intensity upon exposition to laser radiation,iii) curing the printing ink layers,iv) exposing the printed substrate sheet obtained in step ii) before and/or after the curing step iii) to laser radiation so as to create at least one security feature on the at least one banknote and/or on the at least one tax stamp of the printed substrate sheet.

IPC 8 full level
B42D 25/378 (2014.01); **B41M 3/14** (2006.01); **B42D 25/382** (2014.01); **B42D 25/41** (2014.01)

CPC (source: EP)
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Citation (applicant)
CA 2349681 A1 20011203 - BUNDESDRUCKEREI GMBH [DE]

Citation (search report)

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- [XA] EP 3674099 A1 20200701 - TOPPAN PRINTING CO LTD [JP]
- [A] US 2018345709 A1 20181206 - LOCCUFIER JOHAN [BE], et al
- [A] WO 2021122574 A1 20210624 - SICPA HOLDING SA [CH]
- [A] EP 3608120 A1 20200212 - GLEITSMANN SECURITY INKS GMBH [DE]
- [A] WO 2017102722 A1 20170622 - SICPA HOLDING SA [CH]

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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