

Title (en)

METHOD AND DEVICE FOR PERSONALIZING A DOCUMENT BLANK BY MEANS OF A GRAPHIC

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PERSONALISIERUNG EINES DOKUMENTENROHLINGS MIT EINER GRAFIK

Title (fr)

PROCÉDÉ ET DISPOSITIF DE PERSONNALISATION D'UNE ÉBAUCHE DE DOCUMENT COMPRENANT UN GRAPHISME

Publication

**EP 3154793 A1 20170419 (DE)**

Application

**EP 15722106 A 20150428**

Priority

- DE 102014211513 A 20140616
- EP 2015059194 W 20150428

Abstract (en)

[origin: WO2015193013A1] The invention relates to a method for personalizing a document blank (102) by means of a graphic in order to produce a document using an irradiation device (104), wherein the document blank has a photosensitive layer, wherein at least one optically detectable parameter of the photosensitive layer changes when electromagnetic radiation is applied, wherein the change in the parameter is proportionate to the amount of energy input into the photosensitive layer, wherein the irradiation device provides electromagnetic radiation, wherein the amount of energy in the radiation provided by the irradiation device can be adjusted, comprising the following steps: providing a monochrome starting graphic (202); reducing the brightness values of the monochrome starting graphic to at least two brightness levels in order to obtain a reduced starting graphic; dividing the reduced starting graphic into partial graphics, such that each of the partial graphics has only pixels of the same brightness; completely reproducing each of the individual partial graphics (206, 208, 210, 212) on the document blank by applying electromagnetic radiation to the photosensitive layer; wherein each brightness level is associated with an amount of input energy for the photosensitive layer, and wherein when the partial graphic is reproduced the amount of input energy associated with the brightness level of the partial graphic is applied.

IPC 8 full level

**B42D 25/29** (2014.01); **B41M 5/26** (2006.01); **B42D 15/00** (2006.01); **B42D 25/355** (2014.01)

CPC (source: CN EP)

**B42D 25/20** (2014.10 - CN EP); **B42D 25/305** (2014.10 - CN EP); **B42D 25/309** (2014.10 - CN EP); **B42D 25/41** (2014.10 - CN EP); **B41M 3/14** (2013.01 - EP); **B41M 5/267** (2013.01 - EP)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102014211513 A1 20151217**; **DE 102014211513 B4 20181122**; CN 106457876 A 20170222; CN 106457876 B 20180601; EP 3154793 A1 20170419; EP 3154793 B1 20210224; EP 3715141 A1 20200930; EP 3715141 B1 20211201; EP 3715142 A1 20200930; EP 3715142 B1 20211201; EP 3875283 A1 20210908; EP 3875283 B1 20240717; EP 3875284 A1 20210908; EP 3875284 B1 20240717; WO 2015193013 A1 20151223

DOCDB simple family (application)

**DE 102014211513 A 20140616**; CN 201580031625 A 20150428; EP 15722106 A 20150428; EP 2015059194 W 20150428; EP 20170202 A 20150428; EP 20170203 A 20150428; EP 21154722 A 20150428; EP 21154723 A 20150428