

Title (en)

METHOD FOR FORMING COLOR LASER IMAGES, AND RESULTING DOCUMENT

Title (de)

VERFAHREN ZUR ERZEUGUNG VON FARBLASERBILDERN UND RESULTIERENDES DOKUMENT

Title (fr)

PROCEDE DE FORMATION D'IMAGES LASER COULEUR ET DOCUMENT AINSI REALISE

Publication

**EP 2794279 B1 20190206 (FR)**

Application

**EP 12818795 A 20121205**

Priority

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Abstract (en)

[origin: WO2013093230A1] The present invention relates to a method for forming color laser images. The latent image, consisting of colored sub-pixels (2) and uncolored areas, is customized by a laser beam (8) which, in the lasable layer (3) located under the colored sub-pixels (2) and the uncolored areas, causes a final, customized color laser image to appear. The invention can be used for identity documents.

IPC 8 full level

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Citation (opposition)

Opponent : Bundesdruckerei GmbH

- WO 2011124774 A1 20111013 - LAZZARI JEAN PIERRE [FR], et al
- US 5350198 A 19940927 - BERNECKER OTTO [DE]
- DE 4134539 A1 19930422 - GAO GES AUTOMATION ORG [DE]
- EP 2681053 B1 20150408 - LAZZARI JEAN-PIERRE [FR], et al
- US 2013328995 A1 20131212 - LAZZARI JEAN PIERRE [FR], et al
- EP 1918123 A1 20080507 - MAURER ELECTRONICS GMBH [DE]
- WO 2011045180 A1 20110421 - GEMALTO SA [FR], et al
- DE 102009006301 A1 20100729 - GIESECKE & DEVRIENT GMBH [DE]
- EP 1044826 B1 20060719 - MAURER ELECTRONICS GMBH [DE]
- WO 2006102700 A1 20061005 - NOTE PRINTING AU LTD [AU], et al
- US 2005001419 A1 20050106 - LEVY KENNETH L [US], et al
- DE 4243987 A1 19940630 - GAO GES AUTOMATION ORG [DE]
- DE 4339216 A1 19940421 - NAKHMANSON RAOUL DR [DE], et al
- EP 0537484 B1 19981202 - GAO GES AUTOMATION ORG [DE]
- ARMIN LEUTERT: "Allgemeine Fachkunde der Drucktechnik", 1993, BADEN-VERLAG, ISBN: 978-3-85545-064-1, article "Druckfarben", pages: 8-9, 640 - 641, XP055648685
- VAN RENEESE ET AL.: "Optical document security. 3rd ed.", 2005, ARTECH HOUSE, London, ISBN: 978-1-58053-258-6, article "Substrate-based security", pages: 63 - 95, XP055648684

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