

Title (en)  
METHOD FOR FORMING A COLOR LASER IMAGE THAT CAN BE VIEWED IN VARIOUS COLORS, AND DOCUMENT ON WHICH SUCH A COLOR LASER IMAGE IS THUS PRODUCED

Title (de)  
VERFAHREN ZUR ERZEUGUNG EINES FARBLASERBILDES ZUR ANSICHT IN VERSCHIEDENEN FARBEN SOWIE DOKUMENT, AUF DEM SOLCH EIN FARBLASERBILD DADURCH HERGESTELLT WURDE

Title (fr)  
PROCEDE DE FORMATION D'UNE IMAGE LASER COULEUR OBSERVABLE SELON DES COULEURS VARIABLES, ET DOCUMENT SUR LEQUEL UNE TELLE IMAGE LASER COULEUR EST AINSI REALISEE

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**EP 2817156 B1 20170201 (FR)**

Application  
**EP 13710478 A 20130219**

Priority  
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• FR 2013050333 W 20130219

Abstract (en)  
[origin: WO2013124575A1] The present invention relates to the formation of color laser images that can be viewed in various colors. The shades of gray are produced by non-reflective black spaces in a laserable layer that mask the adjacent sub-pixels and cause various colors to appear depending on the angle at which the document is viewed. The invention can be used for official documents.

IPC 8 full level  
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**B41J 2/455** (2013.01 - US); **B41M 3/148** (2013.01 - EP US); **B41M 5/267** (2013.01 - EP US); **B41M 5/34** (2013.01 - EP US); **Y10T 428/24802** (2015.01 - EP US)

Citation (opposition)  
Opponent : Bundesdruckerei GmbH  
• FR 2958777 A1 20111014 - LAZZARI JEAN PIERRE [FR], et al  
• WO 2011045180 A1 20110421 - GEMALTO SA [FR], et al  
• EP 2681053 A1 20140108 - LAZZARI JEAN-PIERRE [FR], et al  
• DE 102007059746 A1 20090610 - BUNDESDRUCKEREI GMBH [DE]  
• EP 2643162 A1 20131002 - BUNDESDRUCKEREI GMBH [DE]  
• DE 4417343 A1 19951207 - ORGA KARTENSYSTEME GMBH [DE]  
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• EP 0537484 A1 19930421 - GAO GES AUTOMATION ORG [DE]  
• EP 1056041 A2 20001129 - GIESECKE & DEVRIENT GMBH [DE]  
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• FR 2972388 A1 20120914 - LAZZARI JEAN PIERRE [FR], et al  
• VAN RENESSE ET AL.: "Optical document security", 2005, ISBN: 1-58053-258-6, article "Interference-Based Security Features", pages: 223 - 264, XP055434131

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**FR 2987156 A1 20130823; FR 2987156 B1 20150130**; EP 2817156 A1 20141231; EP 2817156 B1 20170201; HU E032184 T2 20170928; US 2015024174 A1 20150122; US 9266350 B2 20160223; WO 2013124575 A1 20130829

DOCDB simple family (application)  
**FR 1200511 A 20120222**; EP 13710478 A 20130219; FR 2013050333 W 20130219; HU E13710478 A 20130219; US 201314380336 A 20130219