Title (en)

SECURITY-MARKED WEB

Title (de)

BAHN MIT SICHERHEITSMARKIERUNGEN

Title (fr)

TOILÉ MARQUÉE POUR LA SÉCURITÉ

Publication

EP 2890846 B1 20170802 (EN)

Application

EP 12883978 A 20120830

Priority

FI 2012050842 W 20120830

Abstract (en)

[origin: WO2014033356A1] A method of producing markings on a web (WEB1) comprises: - forming a first base portion (DOT0) in a primary web (WEB0) by locally altering at least one optical property of the primary web (WEB0) with a first laser beam (LB1), and - forming a covered web (WEB1) by covering and/or impregnating the primary web (WEB0) with an additive (AD1) after the first base portion (DOT0) has been formed, wherein the primary web (WEB0) comprises cellulose fibers, the covered web (WEB1) comprises an optically detectable first altered portion (DOT1), the first altered portion (DOT1) comprises the first base portion (DOT0) and an amount of additive (AD1) bound to the first base portion (DOT0), and the composition of the additive (AD1) has been selected such that exposing the covered web (WEB1) to a second laser beam (LB2) causes an optically detectable alteration of the additive (AD1) contained in the covered web (WEB1) in a situation where the intensity of the second laser beam (LB2) is equal to a minimum threshold intensity (IMIN,1) needed to cause optically detectable alteration of the primary web (WEB0) contained in the covered web (WEB1).

IPC 8 full level

D21H 21/40 (2006.01); **B41M 3/14** (2006.01); **B41M 5/26** (2006.01)

CPC (source: EP)

B41M 3/14 (2013.01); **B41M 5/26** (2013.01); **B42D 25/36** (2014.10); **B42D 25/41** (2014.10); **D21H 21/40** (2013.01); **D21H 21/44** (2013.01); **D21H 21/48** (2013.01)

Cited by

GB2567811A; GB2567811B

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 2014033356 A1 20140306; CN 104884707 A 20150902; CN 104884707 B 20161228; EP 2890846 A1 20150708; EP 2890846 A4 20160413; EP 2890846 B1 20170802

DOCDB simple family (application)

FI 2012050842 W 20120830; CN 201280075511 A 20120830; EP 12883978 A 20120830