

Title (en)  
METHOD FOR PROVIDING DIRECTLY ON A GRAPHIC PRINTING LINE A UNIQUE COLOURED SIGN WITH REFLECTING DOTS, HAVING AN ALPHANUMERIC CODE INSCRIBED AT THE CENTRE, FOR FILING AND READING THE ORIGINAL AND COMPARING IT WITH A FAKE

Title (de)  
VERFAHREN ZUR DIREKTEN BEREITSTELLUNG AUF EINER GRAFISCHEN DRUCKSTRASSE EINES EINDEUTIGEN FARBIGEN ZEICHENS MIT REFLEKTIERENDEN PUNKTEN MIT EINEM EINGRAVIERTEN ALPHANUMERISCHEN CODE IN DER MITTE ZUM ABLEGEN UND LESEN DES ORIGINALS UND VERGLEICH MIT EINER FÄLSCHUNG

Title (fr)  
PROCÉDÉ POUR RÉALISER DIRECTEMENT SUR UNE LIGNE D'IMPRESSION GRAPHIQUE UN SIGNE DE COULEUR UNIQUE À POINTS RÉFLÉCHISSANTS, AYANT UN CODE ALPHANUMÉRIQUE INSCRIT AU CENTRE, POUR CLASSER ET LIRE L'ORIGINAL ET LE COMPARER AVEC UN FAUX

Publication  
**EP 3036111 B1 20190828 (EN)**

Application  
**EP 14752954 A 20140611**

Priority  
• IT BI20130011 A 20130819  
• IT 2014000159 W 20140611

Abstract (en)  
[origin: WO2015025339A1] The purpose of the present invention is to propose a method in which encapsulated micro-drops of colour are electrostatically attracted and squeezed not with a roller and counter-roller but with laser-beam barriers. With this new system a new unique sign is obtained that is simpler to read and file and easier to re-read remotely with any mobile-phone apparatus or a purposely provided portable apparatus, and then compare with the one previously filed. To sum up, the three innovations that are described in this new invention are a new pattern of the unique sign obtained with micro-encapsulation of chromatic colours, blind colours/inks or ones variable on the basis of the various ranges of wavelength and frequency of exposure, magnetic colours, and glitters, the distribution of the micro-drops of colour (25, 26, 27, 28) and of the encapsulated glitters (29, 30) obtained electrostatically, and squeezing and anchorage thereof on paper using a laser barrier.

IPC 8 full level  
**B41M 3/14** (2006.01); **B41M 5/20** (2006.01); **B41M 5/28** (2006.01); **B42D 25/369** (2014.01); **B42D 25/378** (2014.01); **B42D 25/41** (2014.01)

CPC (source: EP)  
**B41M 3/14** (2013.01); **B41M 5/20** (2013.01); **B42D 25/369** (2014.10); **B42D 25/378** (2014.10); **B42D 25/41** (2014.10); **B41M 3/144** (2013.01); **B41M 3/146** (2013.01); **B41M 5/287** (2013.01)

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 2015025339 A1 20150226**; EP 3036111 A1 20160629; EP 3036111 B1 20190828; HK 1222612 A1 20170707; IT BI20130011 A1 20150220

DOCDB simple family (application)  
**IT 2014000159 W 20140611**; EP 14752954 A 20140611; HK 16110638 A 20160907; IT BI20130011 A 20130819