

Title (en)  
STRUCTURE COMPRISING A FIBROUS MATERIAL SUBSTRATE AND METHOD FOR AUTHENTICATING AND/OR IDENTIFYING SUCH A STRUCTURE

Title (de)  
STRUKTUR MIT FASERHALTIGEM SUBSTRAT UND VERFAHREN ZUR AUTHENTIFIZIERUNG UND/ODER IDENTIFIZIERUNG EINER DERARTIGEN STRUKTUR

Title (fr)  
STRUCTURE COMPORTANT UN SUBSTRAT EN MATIERE FIBREUSE ET PROCEDE POUR AUTHENTIFIER ET/OU IDENTIFIER UNE TELLE STRUCTURE

Publication  
**EP 1951957 A1 20080806 (FR)**

Application  
**EP 06808334 A 20060915**

Priority  

- FR 2006050896 W 20060915
- FR 0552778 A 20050915

Abstract (en)  

[origin: FR2890666A1] The structure (1) for making safety and/or value document, comprises a fibrous material substrate (2), a surface layer deposited on a face of the substrate, substrate heterogeneities (3) and/or surface layer, authentication and/or identification information having a link with a spatial and/or physical characteristic of the substrate heterogeneities, a data carrier to store information, apparent note (30), heterogeneities fields, heterogeneities dispersed uniformly on all the surface of the substrate, and a system to locate a subset of heterogeneities. The structure (1) for making safety and/or value document, comprises a fibrous material substrate (2), a surface layer deposited on a face of the substrate, substrate heterogeneities (3) and/or surface layer, authentication and/or identification information having a link with a spatial and/or physical characteristic of the substrate heterogeneities, a data carrier to store information, apparent note (30), heterogeneities fields, heterogeneities dispersed uniformly on all the surface of the substrate, and a system to locate a subset of heterogeneities. The heterogeneities: is generated during a humid phase formation of the fibrous material substrate and is generated during coating of the surface layer on substrate; corresponds to fluctuations of a lower mass density of rest of the substrates; forms a clear visible spots in transmitted light; and has a lower surface of 0.2-5 mm <sup>2</sup>>. The authentication and/or identification information: contains an identifier to recover a stored spatial and/or physical characteristics on a support distinct from the structure/to recover an image of heterogeneities; and is encrypted. The spatial/physical characteristics relates to provision, orientation, frequency, shape, size/density per unit area of heterogeneities or corresponds to a nature of heterogeneities, and optics, electrical, electromagnetic, thermal/ acoustic connected with heterogeneities. The spatial/physical characteristics correspond to an average optical density of the heterogeneities. The data carrier stores extra-encrypted information of the apparent note on the structure. Independent claims are included for: (1) a safety and/or value document; (2) a packing device; (3) a sheet material for the manufacture of the structure; (4) a method of manufacturing the structure; and (5) a method of authentication and/or identification of the structure.

IPC 8 full level  
**D21H 21/40** (2006.01); **D21H 21/48** (2006.01); **G07D 7/00** (2006.01)

CPC (source: EP US)  
**B42D 25/00** (2014.10 - EP US); **B42D 25/29** (2014.10 - EP US); **B42D 25/355** (2014.10 - EP US); **B42D 25/369** (2014.10 - US); **B42D 25/373** (2014.10 - US); **D21H 21/40** (2013.01 - EP US); **D21H 21/48** (2013.01 - EP US); **G06K 19/086** (2013.01 - EP US); **G07D 7/0043** (2017.04 - EP US); **G07D 7/0047** (2017.04 - EP US); **G07D 7/2033** (2013.01 - EP US)

Citation (search report)  
See references of WO 2007031694A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**FR 2890666 A1 20070316**; BR PI0616065 A2 20130213; CA 2622493 A1 20070322; EP 1951957 A1 20080806; RU 2008113948 A 20091020; RU 2421561 C2 20110620; US 2009033914 A1 20090205; US 8558995 B2 20131015; WO 2007031694 A1 20070322

DOCDB simple family (application)  
**FR 0552778 A 20050915**; BR PI0616065 A 20060915; CA 2622493 A 20060915; EP 06808334 A 20060915; FR 2006050896 W 20060915; RU 2008113948 A 20060915; US 99164906 A 20060915