

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
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• 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 ²>. 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.

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