

Title (en)

MATERIAL IN SHEET FORM HAVING A WINDOW, ITS MANUFACTURING METHOD, AND SECURITY DOCUMENT COMPRISING IT

Title (de)

MATERIAL IN BLATTFORM UND MIT EINEM FENSTER, HERSTELLUNGSVERFAHREN DAFÜR UND SICHERHEITSDOKUMENT DAMIT

Title (fr)

MATÉRIAU EN FEUILLE COMPORTANT UNE FENÊTRE, SON PROCÉDÉ DE FABRICATION, ET DOCUMENT DE SÉCURITÉ LE COMPRENANT

Publication

**EP 2024568 B1 20100915 (FR)**

Application

**EP 07823503 A 20070605**

Priority

- FR 2007051376 W 20070605
- FR 0604975 A 20060606

Abstract (en)

[origin: FR2901813A1] The sheet material useful in security sheet such as a banknote or cheque and an identity document such as identity card, driving licence, passport or visa, comprises fibrous jets juxtaposed on each other of which the first jet comprises a long area of zero thickness (4) and a lack of material in an area of non-zero thickness and the second jet (5) comprises an aperture. The aperture of the second jet faces the long area of zero thickness of the first jet thus forming a window. The lack of materials extends over a width of the non-zero thickness. The sheet material useful in security sheet such as a banknote or cheque and an identity document such as identity card, driving licence, passport or visa, comprises fibrous jets juxtaposed on each other of which the first jet comprises a long area of zero thickness (4) and a lack of material in an area of non-zero thickness and the second jet (5) comprises an aperture. The aperture of the second jet faces the long area of zero thickness of the first jet thus forming a window. The lack of materials extends over a width of the non-zero thickness. The aperture of second jet has a width less than or equal to a width of the long area of zero-thickness of the first jet facing the aperture. A width of aperture of the second jet is less than 5 mm in width of the long area of zero thickness of the first jet, which is placed opposite to the aperture. The width of the zone of zero-thickness of the first jet is 10-25 mm. The first and second jets comprise a security element such as a filigree or a security thread. The security element has a width of greater than 2 mm. The aperture of the second jet has a geometric form, an alphanumeric character, a symbol or drawing. An independent claim is included for: (1) a security sheet; (2) a security document; and (3) a process of fabricating a sheet material.

IPC 8 full level

**D21H 27/30** (2006.01); **D21F 11/08** (2006.01); **D21H 21/42** (2006.01); **D21H 21/44** (2006.01); **D21H 27/32** (2006.01)

CPC (source: EP US)

**D21F 1/44** (2013.01 - EP US); **D21H 21/42** (2013.01 - EP US); **D21H 27/30** (2013.01 - EP US); **D21H 21/44** (2013.01 - EP US); **D21H 27/32** (2013.01 - EP US); **Y10T 428/24967** (2015.01 - EP US)

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**FR 2901813 A1 20071207**; **FR 2901813 B1 20110218**; AT E481531 T1 20101015; BR PI0712657 A2 20121120; BR PI0712657 B1 20201110; CA 2654387 A1 20080117; CN 101490339 A 20090722; CN 101490339 B 20121024; DE 602007009218 D1 20101028; EP 2024568 A1 20090218; EP 2024568 B1 20100915; ES 2352064 T3 20110215; RU 2008151288 A 20100720; RU 2418126 C2 20110510; UA 97365 C2 20120210; US 2009186205 A1 20090723; WO 2008006983 A1 20080117

DOCDB simple family (application)

**FR 0604975 A 20060606**; AT 07823503 T 20070605; BR PI0712657 A 20070605; CA 2654387 A 20070605; CN 200780026793 A 20070605; DE 602007009218 T 20070605; EP 07823503 A 20070605; ES 07823503 T 20070605; FR 2007051376 W 20070605; RU 2008151288 A 20070605; UA A200814055 A 20070605; US 30304307 A 20070605