

Title (en)

METHOD AND DEVICE FOR PRODUCING FRAUD-PROOF PAPER AND FRAUD-PROOF PAPER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON FÜLSCHUNGSSICHEREM PAPIER SOWIE FÜLSCHUNGSSICHERES PAPIER

Title (fr)

PROCEDE ET DISPOSITIF DE FABRICATION DU PAPIER PROTEGE CONTRE LA CONTREFA ON ET PAPIER PROTEGE CONTRE LA CONTREFA ON

Publication

**EP 1536064 A1 20050601 (EN)**

Application

**EP 03788199 A 20030814**

Priority

- RU 0300367 W 20030814
- RU 2002121671 A 20020814

Abstract (en)

The invention relates to fraud-proof paper and to a method and device for the production thereof. The inventive method consists in forming a first paper web provided with a protective band whose width is equal to or less than 2 mm and which is incorporated into the web during the formation thereof with the aid of a cylinder mould machine in such a way that free-access areas (windows) are formed on protruded elements of the face side of the web. Said protective band is incorporated into the first paper web during the formation thereof and after formation of the free access areas which is associated with the formation of a fibre layer representing 35-50 % of the mass of the first paper web. A second paper web devoid of the protective band is produced simultaneously with the first web and afterwards is applied to the back side thereof in such a way that when they are connected to each other the defects of the said back side are hidden. Afterwards, the thus obtained two-layer material is pressed and dried. The protruded elements are embodied in the form of waterproof elements. An additional protective element is incorporated into the first and/or the second paper web during the production thereof. For the purpose of said invention, a protective band having a width ranging from 2 to 20 mm and comprising additional protective elements is used. <IMAGE>

IPC 1-7

**D21F 11/00**; **D21H 21/40**; **D21H 21/42**; **B42D 15/10**

IPC 8 full level

**B42D 15/00** (2006.01); **B42D 15/10** (2006.01); **D21F 1/44** (2006.01); **D21F 9/04** (2006.01); **D21F 11/00** (2006.01); **D21H 21/40** (2006.01); **D21H 21/42** (2006.01); **D21H 27/30** (2006.01)

CPC (source: EP KR)

**D21F 1/44** (2013.01 - EP); **D21F 9/046** (2013.01 - EP); **D21F 11/00** (2013.01 - EP KR); **D21F 11/008** (2013.01 - EP); **D21H 21/40** (2013.01 - KR); **D21H 21/42** (2013.01 - EP KR); **D21H 27/30** (2013.01 - EP)

Cited by

EP2182112A4; RU2482234C2; FR2918680A1; CN103215854A; FR2925924A1; US8449719B2; WO2007042718A1; WO2009022071A3; WO2009083689A1; EP2463438A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1536064 A1 20050601**; **EP 1536064 A4 20071114**; AU 2003257744 A1 20040303; CN 1675430 A 20050928; KR 101027041 B1 20110411; KR 20050046723 A 20050518; RU 2207417 C1 20030627; WO 2004016851 A1 20040226; WO 2004016851 A8 20040506

DOCDB simple family (application)

**EP 03788199 A 20030814**; AU 2003257744 A 20030814; CN 03819410 A 20030814; KR 20057002463 A 20030814; RU 0300367 W 20030814; RU 2002121671 A 20020814