

Title (en)

METHOD FOR PRODUCING A SECURITY PAPER AND MICROLENS THREAD

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SICHERHEITSPAPIERS UND MIKROLINSENFADEN

Title (fr)

PROCÉDÉ DE FABRICATION D'UN PAPIER DE SÉCURITÉ ET FIL À MICROLENTILLES

Publication

EP 2753754 A2 20140716 (DE)

Application

EP 12769595 A 20120904

Priority

- DE 102011112554 A 20110906
- EP 2012003695 W 20120904

Abstract (en)

[origin: WO2013034279A2] The invention relates to a method for producing a security paper, wherein M) an endless microlens thread (12) having a top side (30) and an opposite underside (32) is provided, wherein the top side (30) is provided with microlenses (22) at least in partial regions, P) a paper web (50) is produced with a predetermined bridge pattern (18), which has bridge regions (16), in which the microlens thread (12) is embedded within the paper web (50), and which has window regions (14) situated between the bridge regions (16), in which window regions the microlens thread (12) emerges at the surface of the paper web (50) and e) the microlens thread (12) is introduced into the paper web (50) and in the process is connected to the paper web (50) on the underside (32) of said thread and, in the bridge regions (16), also on the top side (30) of said thread, wherein the paper web (50) together with the introduced microlens thread (12) forms the security paper.

IPC 8 full level

D21H 21/42 (2006.01)

CPC (source: EP US)

B42D 25/355 (2014.10 - EP US); **B42D 25/47** (2014.10 - US); **D21F 11/006** (2013.01 - US); **D21H 21/42** (2013.01 - EP US); **B42D 25/324** (2014.10 - EP US); **B42D 25/346** (2014.10 - EP US); **B42D 2033/22** (2022.01 - EP); **B42D 2033/24** (2022.01 - EP); **B42D 2035/20** (2022.01 - EP); **Y10T 428/2933** (2015.01 - EP US)

Citation (search report)

See references of WO 2013034279A2

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)

DE 102011112554 A1 20130307; EP 2753754 A2 20140716; EP 2753754 B1 20151118; EP 2753754 B2 20230524; US 2014238628 A1 20140828; WO 2013034279 A2 20130314; WO 2013034279 A3 20130718

DOCDB simple family (application)

DE 102011112554 A 20110906; EP 12769595 A 20120904; EP 2012003695 W 20120904; US 201214342861 A 20120904