

## Title (en)

SECURITY PAPER AND METHOD AND DEVICE FOR PRODUCING THE SAME

## Title (de)

SICHERHEITSPAPIER SOWIE VERFAHREN UND VORRICHTUNG ZU SEINER HERSTELLUNG

## Title (fr)

PAPIER DE SURETE, PROCEDE ET DISPOSITIF DE FABRICATION ASSOCIES

## Publication

**EP 1468141 B1 20160420 (DE)**

## Application

**EP 02796660 A 20021217**

## Priority

- DE 10163381 A 20011221
- EP 0214417 W 20021217

## Abstract (en)

[origin: WO03054297A2] The invention relates to a security paper used for producing security documents such as banknotes, identity cards or the like. Said security paper comprises at least one through-opening which is produced during manufacture of the paper and which in the edge zone has no sharp defining edge.

## IPC 8 full level

**B42D 25/346** (2014.01); **B41M 3/10** (2006.01); **B42D 25/29** (2014.01); **D21F 1/44** (2006.01); **D21H 21/40** (2006.01); **D21H 21/42** (2006.01)

## CPC (source: EP KR US)

**B42D 25/29** (2014.10 - EP KR US); **B42D 25/346** (2014.10 - KR); **D21F 1/44** (2013.01 - EP US); **D21H 21/40** (2013.01 - EP KR US); **B42D 25/333** (2014.10 - EP US); **B42D 25/346** (2014.10 - EP US)

## Citation (opposition)

Opponent : Arjowiggins Security

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## Designated contracting state (EPC)

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

## Designated extension state (EPC)

AL LT LV MK RO

## DOCDB simple family (publication)

**WO 03054297 A2 20030703; WO 03054297 A3 20040805**; AT E557131 T1 20120515; AU 2002361143 A1 20030709; AU 2002361143 A8 20030709; BR 0215269 A 20050426; BR 0215269 B1 20130716; CA 2471379 A1 20030703; CA 2471379 C 20130402; CN 100359099 C 20080102; CN 101220570 A 20080716; CN 101220570 B 20110817; CN 1606648 A 20050413; DE 10163381 A1 20030703; EP 1468141 A2 20041020; EP 1468141 B1 20160420; EP 1468141 B2 20190220; EP 2280119 A1 20110202; EP 2280119 B1 20120509; ES 2387871 T3 20121003; ES 2574556 T3 20160620; ES 2574556 T5 20190718; HU P0402493 A2 20050530; JP 2005525474 A 20050825; JP 4495460 B2 20100707; KR 101044892 B1 20110628; KR 101217309 B1 20121231; KR 20040068585 A 20040731; KR 20080050634 A 20080609; KR 20100083188 A 20100721; PL 222209 B1 20160729; PL 370079 A1 20050516; RU 2004122618 A 20050520; RU 2007130092 A 20090220; RU 2315832 C2 20080127; RU 2401747 C2 20101020; SI 2280119 T1 20120928; UA 84124 C2 20080925; US 2005224203 A1 20051013; US 8465625 B2 20130618; ZA 200403847 B 20050530

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