

Title (en)
Security paper with watermark

Title (de)
Sicherheitspapier mit Wasserzeichen

Title (fr)
Papier de sécurité doté de filigranes

Publication
EP 2439074 B1 20140723 (DE)

Application
EP 11007948 A 20110930

Priority
DE 102010047950 A 20101008

Abstract (en)
[origin: EP2439074A2] The paper has watermarks (14) forming a pattern e.g. portrait, and overlapped by an opening region (16). The opening region forms another pattern and is formed from a linear opening in the paper so that overlapping of the watermarks and the opening region forms a combination pattern (12) of the patterns. The linear opening is produced by effect of laser radiation. The combination pattern has a visual impression changing in transmitted light relative to reflected light. The watermarks include a thin place with a paper thickness reduced relative to surrounding. An independent claim is also included for a method for producing a security paper.

IPC 8 full level
B41M 3/10 (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP US)
B41M 3/10 (2013.01 - EP US); **B42D 25/29** (2014.10 - EP); **B42D 25/333** (2014.10 - EP US); **B42D 25/41** (2014.10 - EP US); **B42D 25/43** (2014.10 - EP); **B42D 2033/22** (2022.01 - EP); **B42D 2033/28** (2022.01 - EP); **B42D 2035/16** (2022.01 - EP); **B42D 2035/36** (2022.01 - EP)

Cited by
EP3279004A1; US10794005B2; EP3322595B2

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)
EP 2439074 A2 20120411; **EP 2439074 A3 20130501**; **EP 2439074 B1 20140723**; DE 102010047950 A1 20120412; ES 2508440 T3 20141016

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EP 11007948 A 20110930; DE 102010047950 A 20101008; ES 11007948 T 20110930