

Title (en)

PAPERMAKING MOULD FOR PRODUCING MULTI-STAGE WATERMARKS AND A METHOD FOR PRODUCING THE SAME

Title (de)

PAPIERSIEB ZUR ERZEUGUNG VIELSTUFIGER WASSERZEICHEN UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

MOULE A PAPIER DESTINE A PRODUIRE DES FILIGRANES A PLUSIEURS ETAGES ET PROCEDE DE FABRICATION

Publication

EP 1432868 A1 20040630 (DE)

Application

EP 02777101 A 20020913

Priority

- DE 10145782 A 20010917
- EP 0210317 W 20020913

Abstract (en)

[origin: WO03025281A1] The invention relates to a papermaking mould (20), which is used to produce two-stage watermarks (1). To produce said mould, partial sections of the papermaking mould (20) are completely sealed by a viscous sealing paste (10), which is subsequently actively or passively cured. The agglomeration of paper during the paper production is impeded in the sections of the paper mould (20) that have been sealed in this manner, so that these areas of the finished paper appear lighter in transmitted light. A mask (30) is used to accurately position the sealing paste (10) on the partial sections of the papermaking mould (20) and/or to cure the sealing paste (10) only in predetermined partial sections, whereby in the latter case, the areas of the sealing paste (10) that have not been cured are washed away.

IPC 1-7

D21F 1/44; **D21F 1/10**; **D21F 11/00**

IPC 8 full level

D21F 1/10 (2006.01); **D21F 1/44** (2006.01); **D21F 11/00** (2006.01); **D21F 1/00** (2006.01)

CPC (source: EP KR US)

D21F 1/0027 (2013.01 - EP US); **D21F 1/44** (2013.01 - EP KR US); **D21F 11/006** (2013.01 - EP US)

Citation (examination)

WO 0039391 A1 20000706 - RUE DE INT LTD [GB], et al

Cited by

DE102020005477A1; WO2022048796A1; DE102020005480A1; WO2022048794A1

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 SK TR

Designated extension state (EPC)

AL LT LV MK RO SI

DOCDB simple family (publication)

WO 03025281 A1 20030327; CN 1266335 C 20060726; CN 1555443 A 20041215; DE 10145782 A1 20030410; EP 1432868 A1 20040630; HU 228322 B1 20130328; HU P0401448 A2 20041028; KR 100965039 B1 20100621; KR 20040054686 A 20040625; PL 200780 B1 20090227; PL 367995 A1 20050321; RU 2004111790 A 20050927; RU 2300596 C2 20070610; UA 76200 C2 20060717; US 2004249754 A1 20041209; US 8524039 B2 20130903

DOCDB simple family (application)

EP 0210317 W 20020913; CN 02817791 A 20020913; DE 10145782 A 20010917; EP 02777101 A 20020913; HU P0401448 A 20020913; KR 20047003936 A 20020913; PL 36799502 A 20020913; RU 2004111790 A 20020913; UA 20040402827 A 20020913; US 48966602 A 20020913