

Title (en)

METHOD FOR PRODUCING OF MARKED PAPER SUBSTRATE WITH THE MARK IN THE FORM OF A WATERMARK AND A MARKED SECURITY PAPER SUBSTRATE, IN PARTICULAR A SECURITY PAPER, OBTAINED BY SUCH A METHOD

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES MARKIERTEN PAPIERSUBSTRATS MIT WASSERZEICHENMARKIERUNG UND NACH DIESEM VERFAHREN HERGESTELLTES MARKIERTES SICHERHEITSPAPIERSUBSTRAT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN SUPPORT PAPIER MARQUÉ AVEC UN FILIGRANE ET SUPPORT PAPIER DE SÉCURITÉ MARQUÉ, EN PARTICULIER UN PAPIER DE SÉCURITÉ

Publication

EP 4223548 A1 20230809 (EN)

Application

EP 22217014 A 20221228

Priority

PL 44002421 A 20211229

Abstract (en)

Method for manufacturing a paper substrate with a marking, with the steps: providing a paper substrate which can be fibrous paper; applying a mark to the substrate by irradiating it with an ultra-fast laser which is a femtosecond laser with a pulse below 400 fs, whose beam modifies the paper substrate, the mark being obtained by selective, local removal of paper substrate layers in the area defined on the basis of the desired image, and wherein the thinning of the paper substrate obtained by selectively locally removing layers of the paper substrate to produce the watermark in irradiating step is less than the thickness of the paper substrate, and the area over which it is applied does not differ in colour from the area not processed with an ultrafast laser. The resolution can be 900-1500 DPI. The paper can be uncoated and have 40-700 g.

IPC 8 full level

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Citation (applicant)

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- US 2013255896 A1 20131003 - DOUBLET PIERRE [FR], et al
- EP 1743778 A2 20070117 - HARRIS COLIN AUSTIN [GB]
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Citation (search report)

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Designated contracting state (EPC)

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