

Title (en)

Gravure paper and a method for its production

Title (de)

Tiefdruck-Papier und Herstellungsverfahren für dieses Papier

Title (fr)

Papier hélió et un procédé pour la fabrication du même

Publication

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Application

EP 00102731 A 20000210

Priority

DE 19922390 A 19990514

Abstract (en)

[origin: EP1052328A2] In the prodn. of paper for gravure printing, with a max. roughness depth of 1.4 μm , a fiber suspension is prepared with a Canadian Standard Freeness (CSF) rating of ≥ 50 ml CSF and pref. 50-120 ml CSF. The suspension is converted into a paper web the web formation stage of a papermaking machine, followed by a water extraction press station and a drying stage. A slurry is applied to the unfinished paper web, containing pigments and/or filling materials, between the start of web formation and a dry content of the paper of $\leq 90\%$. The slurry has a fiber content of 2-60% and pref. 5-30%. The paper requires no further coating The web passes through a press station after the slurry application, which is on both sides of the web. At least one slurry coating is applied at the web formation stage and/or at the press station. At least one slurry coating is applied to the paper w with a dry content of $\leq 55\%$ and pref. 3-55%. The slurry coating is applied to the web through a screen in a dry mass weight f at least one coating on one side of the web of 0.5-10.0 g/m² and pref. 1.0-10.0 g/m². The slurry containing pigments and/or filling materials is prepared with a fiber content of pref. 10-95% and especially 20-60%. The fiber web (4.1) is formed from the stock inlet (1) with at least two and pref. three layers. One layer, and pref. the two outer layers (4.2,4.3) ar wholly of the pigment/filling material slurry and at least one layer (4.1) and pref. the center layer is of the paper fiber pulp The web is passed through a web formation stage, a press station and a drying section, without further surface coating. The slur contains kaolin, clay, ground CaCO₃, precipitated CaCO₃, TiO₂, talcum and bentonite. It also contains a retention agent, fixing agents, dispersion agents, adhesive glue agents, bonding agents and a fine matter suspension. The pigment/filling material slurry has a fiber content with a rating of ≤ 30 ml CSF and pref. ≤ 20 ml CSF. The fiber content the outer pigment/filling material layers is 50-100% less than the fiber content of the center layer.

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D21F 11/04

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CPC (source: EP US)

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Citation (search report)

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- [A] WO 8401176 A1 19840329 - EASTMAN KODAK CO [US]
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