

Title (en)

Process for the production of coloured decorative paper with a three-dimensional surface structure.

Title (de)

Verfahren zur Herstellung von farbigen Dekorpapierfolien mit einer 3-dimensionalen Oberflächenstruktur.

Title (fr)

Procédé pour la fabrication de papier décoratif coloré, comportant une surface à structure trois dimensionnelle.

Publication

EP 0115038 A2 19840808 (DE)

Application

EP 83112899 A 19831221

Priority

DE 3247677 A 19821223

Abstract (en)

1. A process for the production of colored decorative sheet-form paper having a three-dimensional surface structure by printing the paper sheets with a pattern using an aqueous printing ink, drying the printed sheet, lacquering the printed sheet with an aqueous lacquer and hardening the lacquered sheet, the printing ink applied in those areas where the lacquer film is thinner than in the other areas containing a lacquer repellent, characterized in that the printed sheet is coated with an aqueous lacquer having a viscosity of 15 to 40 sec. in an AK4 cup essentially containing as binder a mixture of A) a mixture of a urea and/or melamine resin dissolved in water and an aqueous acid as hardener, which hardens in less than 100 seconds at > 100 degrees C after mixing of the aqueous resin solution with the acid, B) a binder selected from the group consisting of a) water-dilutable polyester resin, b) acrylate resin c) ethoxylated glycerine derivative, binder B) containing 10 to 250 parts by weight solids to 100 parts by weight solids in binder A), and the lacquered sheet is hardened in the absence of pressure by exposure to air heated to beyond 100 degrees C.

Abstract (de)

Verfahren zur Herstellung von farbigen Dekorpapierfolien mit einer dreidimensionalen Oberflächenstruktur durch Bedrucken der Papierfolien mit einem Muster und Überlackieren, wobei die Druckfarbe, die an den Bereichen aufgedruckt wird, an denen die Lackschicht dünner als an den anderen Bereichen ist, ein lackabstoßendes Mittel enthält, wobei eine wäßrige Druckfarbe verwendet, die bedruckte Folie getrocknet und mit einem wäßrigen Lack lackiert und anschließend bei erhöhter Temperatur ohne Einwirkung von Druck gehärtet wird.

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IPC 8 full level

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CPC (source: EP)

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Cited by

RU2644856C1; RU2644855C1; RU2644854C1; EP0569640A1; US5304411A; WO2018228963A1; US7464110B2; US7130623B2; WO2019243220A1; US7840892B2; WO2016107673A1; US7616949B2; US6934535B2; US6990352B2; US7165224B2

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