

Title (en)

Process and apparatus for applying a CB coat on a paper web

Title (de)

Verfahren und Vorrichtung zur Herstellung einer CB-Schicht aufweisenden Papierbahn

Title (fr)

Procédé et dispositif pour enduire une couche CB sur une feuille de papier

Publication

EP 0799934 A1 19971008 (DE)

Application

EP 96105296 A 19960403

Priority

EP 96105296 A 19960403

Abstract (en)

In a process for the mfr. of paper having a CB coating on one side, the raw paper is passed through the gap between a coating roll (2) and an opposing roll (1). The CB coating material, which contains an encapsulated colour-forming substance, is continuously applied to the coating roll - at a thickness determined by a metering roll (14) and is applied by the coating roll to the paper. The coating and opposing rolls (2, 1) are pressed against one another in such a way that an average pressure of up to 2 N/mm² and a linear force of a max. of 80 N/m is exerted between them. Also claimed is a coating machine for the process in which the coating and opposing rolls are provided with a means of generating a linear force between them in the region of up to 80 kN/m. Pref. a max. press. of 1 N/mm² is exerted in the nip, and the linear force in the nip, which takes into account the hardness, the elasticity, the diameter, and the nature of the material of the roll covering, is selected to ensure a nip length in the direction of web travel of at least 5 mm, and more pref. 10-20 mm. The roll diameter and the properties of the covering meet the above requirements. One side of the press may be formed by a shoe press and belt. The pres is generated between the rolls by a variable force generator working against a counter-mechanism such as a spring or pressure cylinder.

Abstract (de)

Verfahren zum Herstellen einer Papierbahn, die eine CB-Schicht aufweist. Dabei führt man die Bahn durch einen von einer Beschichtungswalze (2) und einer Gegenwalze (1) gebildeten Walzenspalt (a). CB-Streichfarbe wird kontinuierlich auf die Beschichtungswalze (2) aufgetragen, dort mittels einer Dosiereinrichtung (14) dosiert und in dem Walzenspalt auf die Papierbahn (3) übertragen, wobei die zwei Walzen (1, 2) derart gegeneinander gedrückt werden, daß im Walzenspalt eine mittlere Flächenpressung von höchstens 2 N/mm² vorhanden ist. <IMAGE>

IPC 1-7

D21H 23/58; **B05C 1/08**

IPC 8 full level

B05C 1/08 (2006.01); **D21H 23/58** (2006.01); **B41M 5/124** (2006.01)

CPC (source: EP)

B05C 1/083 (2013.01); **B05C 1/0834** (2013.01); **D21H 23/58** (2013.01); **B41M 5/1246** (2013.01)

Citation (search report)

- [Y] EP 0385640 A2 19900905 - WIGGINS TEAPE GROUP LTD [GB]
- [Y] WO 9115306 A1 19911017 - BTG KAELE INVENTING AB [SE]
- [AD] DE 4224718 A1 19940203 - FELDMUEHLE AG STORA [DE]
- [A] US 4347269 A 19820831 - KEEP GEOFFREY S
- [A] GB 1433165 A 19760422 - WIGGINS TEAPE LTD

Cited by

CN103433173A; DE102007029578A1; DE102007029578B4

Designated contracting state (EPC)

DE FI GB

DOCDB simple family (publication)

EP 0799934 A1 19971008

DOCDB simple family (application)

EP 96105296 A 19960403