

Title (en)

Paper coating method and apparatus.

Title (de)

Verfahren und Vorrichtung zum Beschichten von Papier.

Title (fr)

Procédé et dispositif d'enduisage du papier.

Publication

**EP 0051698 B2 19940817 (EN)**

Application

**EP 80303958 A 19801106**

Priority

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Abstract (en)

[origin: EP0051698A1] This invention relates to a method, and apparatus of the blade type, for applying a coating material to a web of paper. A conventional coater of the blade type includes means for applying coating to a paper web supported and carried by a resilient backing roll (24), together with a flexible doctor blade (98) located some distance from and on the trailing side of the applicator (20), which serves to level the applied coating. In order to achieve low coat weights, i.e. in the order of 3 to 4.5 grams per square metre per side of paper, it is necessary to increase the pressure of the blade (98) against the web (26), which results in a high rate of wear, and increases the possibility of web breakage and streaking caused by foreign particles being caught between the blade (98) and the web (26). The present invention utilizes a reservoir (80) of liquid coating material between a forward liquid seal and a rearward doctor blade (98) spaced a short distance from the seal. The coating material is applied under pressure so as to form and maintain the liquid seal. This provides a short dwell time, low coat weights, low blade pressures, and excellent results.

IPC 1-7

**B05D 1/26**; **B05C 5/02**

IPC 8 full level

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CPC (source: EP)

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Cited by

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