

Title (en)

Method and apparatus for applying a coating material to sheets

Title (de)

Verfahren und Vorrichtung zum Aufbringen einer Beschichtung auf Bögen

Title (fr)

Procédé et dispositif de dépôt d'une couche de matière sur des feuilles

Publication

EP 1234682 A2 20020828 (EN)

Application

EP 02076789 A 19950713

Priority

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- US 29161094 A 19940817

Abstract (en)

The present invention relates to an apparatus for applying a water-based coating material to a plurality of sheet members comprising : (a) a conveyor (4) for conveying a plurality of the sheet members in overlapped end to end relation along a path ; (b) a source of water-based coating material ; (c) a dispenser (7) in fluid communication with the source for controllably dispensing a quantity of the water-based coating material at a desired rate; (d) an intermediate carrier (20) supported adjacent said dispenser, said intermediate carrier having a transfer surface extending to said path of the sheet members, said intermediate carrier including : (i) a backing layer having a first major surface ; and (ii) a silicone coating applied to said first major surface, said silicone layer having a textured outermost major surface forming said transfer surface adapted for receiving the coating material from said dispenser and facilitating release of the coating material therefrom, wherein said transfer surface is adapted for contact with the overlapped sheet members along said path, at a location spaced from the point at which coating material is applied to the transfer surface, said transfer surface being advancable to transfer the coating material from said dispenser to said overlapped sheet members ; and (e) a means to reduce the water content of the coating material prior to transfer of the coating material from the intermediate carrier to the overlapped sheet members. <IMAGE>

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Citation (applicant)

- WO 8705315 A1 19870911 - PAGENDARM ERICH
- US 4598112 A 19860701 - HOWARD PHILIP H [US]
- US 4822670 A 19890418 - ONO KIYOSHI [JP], et al
- US 4495318 A 19850122 - HOWARD PHILIP H [US]
- EP 0439941 A1 19910807 - MINNESOTA MINING & MFG [US]
- US 5045569 A 19910903 - DELGADO JOAQUIN [US]
- US 3691140 A 19720912 - SILVER SPENCER FERGUSON
- US RE24906 E 19601213

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