

Title (en)

Method and apparatus for coating a paper web

Title (de)

Verfahren und Vorrichtung zum Streichen einer Papierbahn

Title (fr)

Procédé et dispositif pour l'enduction d'une bande de papier

Publication

EP 0784120 A2 19970716 (DE)

Application

EP 97100214 A 19930807

Priority

- DE 4302437 A 19930129
- DE 4302435 A 19930129
- EP 93112694 A 19930807

Abstract (en)

The coating is applied at stations. Part of the total coating is applied at each station, and the sum of the coating stations equals the amt. of coating to be applied. The paper web is dried between each coating station. Pref. coating station which gives an indirect cladding action comprises two parallel rollers with a gap between them for the paper web to pass through. Applicator jet(s) is directed at the mantle surface of one roller for the coating medium to be transferred to the web at the roller gap. Each coating station delivers only part of the total coating, and a dryer is after each station. The total vol. of coating material is pref. initially applied to one side of the web, required for that side, and the web is dried. The amt. of coating required for the other side is then applied, and the web is dried again. With station(s) part of the coating is applied and the web is dried, and a further station where the remainder of the coating is applied and the web is dried again. The amt. of coating applied to each side of the web is more than 3 g/m², e.g. 4-8 g/m². After each coating, the web is dried to less than 70% of the dry rating. Each station is pref. a double coating station, with a jet directed at each roller mantle. Or each station is a single applicator station, with a jet directed at only one roller mantle. In the assembly, station(s) is a double unit and station(s) is a single applicator machine.

Abstract (de)

Die Erfindung betrifft ein Verfahren zum Streichen einer Papierbahn geringer Festigkeit (Altpapierbasis), mit den folgenden Merkmalen: das Papier wird auf beiden Seiten gestrichen; die Papierbahn wird nach dem Streichen getrocknet; Die Erfindung ist gekennzeichnet durch die folgenden Merkmale: der Strich wird mittels zweier oder mehrerer Streichstationen aufgebracht; mit den einzelnen Streichstationen wird nur ein Teil der Gesamtstreichmenge aufgebracht, wobei sich die Teile der Einzelstreichmengen am Ende des gesamten Streichvorganges zur Gesamtstreichmenge addieren; nach jedem Aufbringen einer Teilstreichmenge wird die Papierbahn getrocknet. <IMAGE>

IPC 1-7

D21H 23/56; **D21H 23/72**; **D21H 25/12**

IPC 8 full level

B05D 1/28 (2006.01); **B05C 1/08** (2006.01); **B05C 9/04** (2006.01); **B05C 9/14** (2006.01); **B05C 11/02** (2006.01); **B05D 1/40** (2006.01); **D21H 11/14** (2006.01); **D21H 23/00** (2006.01); **D21H 23/56** (2006.01); **D21H 23/70** (2006.01); **D21H 23/72** (2006.01); **D21H 25/12** (2006.01)

CPC (source: EP)

B05C 1/08 (2013.01); **B05C 1/0826** (2013.01); **B05C 9/04** (2013.01); **B05C 9/14** (2013.01); **B05C 11/025** (2013.01); **D21H 11/14** (2013.01); **D21H 23/56** (2013.01); **D21H 23/70** (2013.01); **D21H 25/12** (2013.01)

Cited by

DE102009008589B4; EP1231321A3

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0609483 A1 19940810; **EP 0609483 B1 19970723**; AT E155839 T1 19970815; CA 2133311 A1 19940730; DE 59306972 D1 19970828; EP 0784120 A2 19970716; EP 0784120 A3 20040414; FI 944496 A0 19940928; FI 944496 A 19940928; FI 99155 B 19970630; JP H07505573 A 19950622; WO 9417244 A1 19940804

DOCDB simple family (application)

EP 93112694 A 19930807; AT 93112694 T 19930807; CA 2133311 A 19940128; DE 59306972 T 19930807; EP 9400239 W 19940128; EP 97100214 A 19930807; FI 944496 A 19940928; JP 51669594 A 19940128