

Title (en)

Process and apparatus for coating a paper or board web with a fluid or pasty material

Title (de)

Verfahren und Vorrichtung zur Beaufschlagung einer Papier- oder Kartonbahn mit einem flüssigen oder pastösen Auftragsmedium

Title (fr)

Procédé et dispositif pour appliquer un matériau d'enduction liquide ou pâteux sur une bande de papier ou de carton

Publication

EP 0911446 A3 20010816 (DE)

Application

EP 98116754 A 19980904

Priority

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- DE 19820586 A 19980508

Abstract (en)

[origin: EP0911446A2] To apply a liquid or paste coating to a wet or damp web (1), of paper or cardboard, steam and/or water are delivered (7.1,7.2) to the web at the coating station (8). In an Independent claim, the wet web section of the papermaking machine has at least one unit (7.1,7.2) to deliver steam and/or water at the blanket or fourdrinier (2) and/or the web (1) where the coating medium (9) is applied (8). Preferred Device: The web (1) is treated with the steam and/or water near the coating station (8). At least one blanket or fourdrinier (2) is treated with steam and/or water near the coating applicator (8). The steam and/or water is applied (7.1,7.2) in front of and/or after the applicator (8), to both sides of the web (1) or both sides of the blanket or fourdrinier (2). The coating medium (9) is passed through at least one water-permeable blanket or fourdrinier (2), to be applied to at least one surface of the web (1). Surplus fluid or impurities are extracted by suction (6) during or directly after the steam/water treatment. The steam or the water has additives to act on the surface. The water/steam treatment is applied near a suction roller (5) at a double fourdrinier section. The web (1), at the stage where it is coated, has a solid content of 3-50% and pref. 3-23% and particularly 3-17%. The working time of the steam or water on the web (1) or fourdrinier (2) is 0.1-10.0 milliseconds and a max. of 15 milliseconds. The coating is applied at a rate of 1-15 g/m<2> for each side of the web, in a dry measurement. At least one coating applicator (8) acts directly on the web (1) or on a blanket or fourdrinier (2) to pass through it to the web (1). The blanket or fourdrinier to be treated with steam or water is separated from the web before reaching the applicator. At least one applicator (8), in a double fourdrinier machine, is at a coating unit, with an opposing suction roller (5).

IPC 1-7

D21H 23/28; **D21H 23/30**; **D21H 19/10**; **D21H 23/22**; **D21H 23/26**; **D21H 23/70**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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