

Title (en)

DEVICE FOR COATING A WEB OF PAPER OR CARDBOARD

Title (de)

VORRICHTUNG ZUM BESCHICHTEN EINER PAPIER- ODER KARTONBAHN

Title (fr)

DISPOSITIF PERMETTANT DE COUCHER UNE BANDE DE PAPIER OU DE CARTON

Publication

**EP 0642613 B1 19960828 (DE)**

Application

**EP 94912508 A 19940323**

Priority

- DE 4309937 A 19930326
- EP 9400908 W 19940323

Abstract (en)

[origin: WO9423126A1] Prior art devices for coating continuous strips of paper or cardboard (1) exist which have a counter-roller round which the paper or cardboard (1) passes, an application system (3) which applies an excess of coating material to the paper or cardboard (1), and a metering system (4) disposed a certain distance downstream from the application system (3) and fitted with a doctor blade. The application system (3) includes an application roller (8), driven to rotate, with a smooth surface which, together with the counter-roller (2), forms an application gap (9) to which excess coating material is fed in the same direction as the direction of motion of the paper or cardboard. The invention calls for the application roller (8) to have a diameter of 5 to 200 mm, preferably 10 to 150 mm, and to form together with the counter-roller (2) an application gap (9) of 0.01 to 2 mm, preferably 0.05 to 1 mm, these figures being in addition to the thickness of the paper or cardboard, and the rear side of the application roller (8) i.e. that remote from the counter-roller (2), rests, over the whole working width of the roller, against a mounting (12, 26, 27) which is rigid in the direction radial to the counter-roller (2) to prevent bending.

IPC 1-7

**D21H 23/34**

IPC 8 full level

**B05C 1/04** (2006.01); **B05C 1/08** (2006.01); **B05C 5/02** (2006.01); **B05C 11/04** (2006.01); **D21H 23/00** (2006.01); **D21H 23/34** (2006.01)

CPC (source: EP)

**D21H 23/34** (2013.01)

Cited by

US6534113B1

Designated contracting state (EPC)

AT DE ES IT

DOCDB simple family (publication)

**WO 9423126 A1 19941013**; AT E141974 T1 19960915; BR 9404762 A 19990615; DE 4309937 A1 19940929; DE 59400550 D1 19961002; EP 0642613 A1 19950315; EP 0642613 B1 19960828; ES 2095162 T3 19970201; FI 945542 A0 19941125; FI 945542 A 19941125; FI 99038 B 19970613; FI 99038 C 19970925; JP H07507495 A 19950824

DOCDB simple family (application)

**EP 9400908 W 19940323**; AT 94912508 T 19940323; BR 9404762 A 19940323; DE 4309937 A 19930326; DE 59400550 T 19940323; EP 94912508 A 19940323; ES 94912508 T 19940323; FI 945542 A 19941125; JP 52163694 A 19940323