Title (en)

Apparatus for treating a web material

Title (de)

Vorrichtung zur Behandlung einer Materialbahn

Title (fr)

Appareil pour le traitement d'une bande de matériau

Publication

EP 0999305 A3 20040211 (DE)

Application

EP 99113290 A 19990709

Priority

DE 19850760 A 19981105

Abstract (en)

[origin: EP0999305A2] A web (14) of paper or cardboard is dried by passing over a support surface (22) to move with a porous support blanket (16) around a deflection roller (18) between the drying cylinders. Before the roller (18), it passes over a cohesive underpressure zone (24), with the suction box wall (26) and at least one other wall fitted with suction openings (34). The assembly has at least one additional suction opening slit (34). At the support, the web (14) is in contact with the smooth support surface (22), in its travel with the support blanket (16). At the leading end of the underpressure zone (24), a seal (28) acts with the support blanket (16) where the web (14) leaves the support surface (22). At least one additional suction opening (34) is at the leading end of the underpressure zone (24), as a slit opening across the direction (L) of web (14) travel and over part of the machine width. The additional suction opening slit (34) runs from a web leader or a starter edge strip zone of the web (14), across its direction (L) of travel. An additional suction opening can be at both side edges of the web (14), which can be outside the web width and matched to another paper edge. The additional slit suction opening can be aligned along the direction (L) of web travel. A slit suction opening (34), at the leading end of the underpressure zone (24) and across the direction (L) of web movement, is adjacent to a slit suction opening along the line (L) of web travel and opens into it. The first slit suction opening (32) projects beyond the web width, on both sides. The deflection roller (18) is perforated and/or ridged. The suction box (20) shrouds the zone of the deflection roller (18) which is not covered by the web (14) and the blanket (16). The support surface (22) is on a rotating drying cylinder (10) and the blanket (16) is a drying blanket or fourdrinier.

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D21F 5/04

IPC 8 full level

D21F 5/04 (2006.01)

CPC (source: EP US)

D21F 5/042 (2013.01 - EP US)

Citation (search report)

- [X] DE 4314475 A1 19931223 VOITH GMBH J M [DE]
- [X] US 4359828 A 19821123 THOMAS KEITH V

Cited by

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