

Title (en)

Web guiding device

Title (de)

Bahnführungseinrichtung

Title (fr)

Dispositif pour guider un matériau en bande

Publication

EP 1479817 A2 20041124 (DE)

Application

EP 04101976 A 20040507

Priority

DE 10322525 A 20030519

Abstract (en)

A papermaking assembly surrenders a moving web of wet paper or carton to a drying process via supporting non-contact horizontal rod-shaped airturn guide (10). The rod-shaped guide has an outer air-porous surface (12) supported by an air-porous tubular supporting rod (24) with an internal feed of compressed air. Separation between the web and rod is maintained by an air cushion. The air pressure is maintained above 1 bar in the pressure chamber. The specific volume flow in the porous material is in the range 10 to 5000 Nm³/h m. The intervals between adjacent pores (14) is less than 1 mm. The average pore diameter is less than 0.1 mm. The drop in pressure between the pressure chamber and pore outer surface is greater than 0.8 bar. The air cushion between the pore outer surface and moving web is less than 3 mm. The rod rotates (L) about its longitudinal axis.

Abstract (de)

Eine Bahnführungseinrichtung umfasst wenigstens ein Leitelement (10) zur berührungslosen Bahnführung in einer der Herstellung und/oder Behandlung einer Materialbahn (28), insbesondere Papier- oder Kartonbahn, dienenden Maschine. Das Leitelement (10) besitzt eine Leitfläche (12), die zumindest teilweise aus luftdurchlässigem porösen Material (14) besteht, das mit Druckluft beaufschlagbar ist, um über die durch dieses poröse Material (14) hindurchströmende Luft (16) zwischen der Leitfläche (10) und der bewegten Materialbahn (28) ein Luftpolster (18) zu bilden. <IMAGE>

IPC 1-7

B65H 23/24; D21F 1/36; D21F 1/38; D21F 1/40; D21F 3/02; D21F 5/04; D21G 1/00

IPC 8 full level

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CPC (source: EP)

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