

Title (en)
Web guiding and/or sealing device

Title (de)
Bahnführungs- und/oder Dichtungseinrichtung

Title (fr)
Dispositif de guidage de bande et/ou dispositif d'étanchéité

Publication
EP 1479821 A3 20041201 (DE)

Application
EP 04101895 A 20040504

Priority
DE 10322521 A 20030519

Abstract (en)
[origin: EP1479821A2] A papermaking assembly has an airturn guide rod (10) also operating as a seal. The rod emits compressed air through its porous surface to form an air cushion between the rod and a wet moving paper or carton web. The airturn rod guide is located after a machine press, press arrangement or press section, and/or prior to an air drier e.g. an impingement drier. 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 Nm/h m. The intervals between adjacent pores 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 about its longitudinal axis. The rod diameter is 500 to 1500 mm.

IPC 1-7
D21F 5/18; **B65H 23/32**; **D21F 1/36**

IPC 8 full level
B65H 23/24 (2006.01); **B65H 23/32** (2006.01); **B65H 27/00** (2006.01); **D21F 1/36** (2006.01); **D21F 5/18** (2006.01); **D21G 1/00** (2006.01)

CPC (source: EP)
B65H 23/24 (2013.01); **B65H 23/32** (2013.01); **B65H 27/00** (2013.01); **D21F 1/36** (2013.01); **D21F 5/18** (2013.01); **D21G 1/0086** (2013.01); **B65H 2301/511** (2013.01); **B65H 2404/271** (2013.01); **B65H 2406/111** (2013.01); **B65H 2406/1131** (2013.01); **B65H 2801/84** (2013.01)

Citation (search report)
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
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