

Title (en)
Heated drying cylinder

Title (de)
Beheizter Trockenzylinder

Title (fr)
Cylindre sécheur chauffé

Publication
EP 1072723 A2 20010131 (DE)

Application
EP 00111228 A 20000525

Priority
DE 19934868 A 19990724

Abstract (en)
The cylinder casing (3) is air-permeable over the area of contact of the fibrous web (1) and the interior of the drying cylinder is connected to a source of air pressure. Preferred features: The casing is perforated (9) over the entire area of contact. In this region it is wrapped by an air-permeable cylinder band (6) which is as smooth as possible. This is a fabric band. It is a drying sieve. The air under pressure is preferably heated in the drying cylinder. The cylindrical casing of the cylinder is heated above 200 degrees C, preferably in the range 200 degrees C-400 degrees C. Air pressurization is sufficiently high to form an air cushion (8) between cylinder casing and fibrous web. Cushion thickness is no more than 2 mm, preferably 0.5-1 mm. One or more drying cylinders are employed in the initial region of a drying section of the plant.

Abstract (de)
Die Erfindung betrifft einen beheizten Trockenzylinder (4) zur Trocknung einer ihn teilweise umschlingenden Faserstoffbahn (1), insbesondere einer Papier-, Karton- oder Tissuebahn in Maschinen zu Herstellung und/oder Veredelung derselben, wobei ein endlos umlaufendes Band (2) die Faserstoffbahn (1) gegen den Zylindermantel (3) des Trockenzylinders (4) drückt. Davon ausgehend soll das Ablösen der Faserstoffbahn (1) bei gleichzeitiger Gewährleistung eines guten Trocknungsergebnisses erleichtert werden. Erreicht wird dies dadurch, daß der Zylindermantel (3) im Kontaktbereich der Faserstoffbahn (1) luftdurchlässig ist und der Innenraum des Trockenzylinders (4) an eine Druckluftquelle (5) angeschlossen ist.
<IMAGE>

IPC 1-7
D21F 5/02; **D21F 5/18**

IPC 8 full level
D21F 5/18 (2006.01); **F26B 13/10** (2006.01); **F26B 13/16** (2006.01); **F26B 13/18** (2006.01)

CPC (source: EP US)
D21F 5/182 (2013.01 - EP US); **F26B 13/101** (2013.01 - EP US); **F26B 13/16** (2013.01 - EP US); **F26B 13/18** (2013.01 - EP US)

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DE FI SE

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