Title (en)

A VACUUM APPARATUS CAPABLE OF CONTROLLING THE RATE OF APPLICATION OF VACUUM PRESSURE IN A THROUGH AIR DRYING PAPERMAKING PROCESS

Title (de)

VAKUUMVORRICHTUNG ZUR STEUERUNG DER VAKUUMDRUCK IN EINEM PAPIERHERSTELLUNGSUERFAHREN MIT DURCHLUFTROCKNUNG

Title (fr)

APPAREIL A DEPRESSION DOTE D'UNE REGULATION DU RYTHME D'APPLICATION DE LA DEPRESSION DANS UN PROCESSUS DE FABRICATION DE PAPIER A SECHAGE PAR AIR

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Application

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Abstract (en)

[origin: WO9810140A1] A papermaking vacuum apparatus having a web-facing surface (114) adapted to support a papermaking belt (11) and comprising a head (110), a body (120) and at least one vacuum slot (116) disposed in the head and defining an aperture (118) on the web-facing surface. The vacuum slot is in fluid communication with the web-facing surface and extends from the web-facing surface to the body which is in further fluid communication with a vacuum source. The web-facing surface comprises a textured (115) area in the region of the web-facing surface juxtaposed with the aperture defined by the vacuum slot. This textured area creates a leakage of at least about 35 Marlatts at a pressure differential of 17,5 cm (7 inches) of Mercury. This leakage eliminates the vacuum seal between a smooth backside of the papermaking belt and the web-facing surface of the vacuum apparatus.

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D21F 2/00; D21F 1/48

IPC 8 full level

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