

Title (en)

Method for making smooth uncreped throughdried sheets.

Title (de)

Verfahren zur Herstellung von sanftem, ungekrepptem durchblasgetrocknetem Papier.

Title (fr)

Procédé de fabrication de feuilles douces, non-crêpées, béchées par traversée d'air.

Publication

EP 0617164 A1 19940928 (EN)

Application

EP 94104623 A 19940323

Priority

US 3664993 A 19930324

Abstract (en)

Uncreped throughdried cellulosic webs having high smoothness and stretch are produced by transferring a newly formed web from the forming fabric to a slower moving, high fiber support transfer fabric, preferably using a fixed gap noncompressive transfer. The web is then transferred to a throughdrying fabric and throughdried to final dryness, producing a web having an improved softness due to increased surface smoothness.
<IMAGE>

IPC 1-7

D21F 11/14

IPC 8 full level

D21F 11/14 (2006.01)

CPC (source: EP)

D21F 11/14 (2013.01); **D21F 11/145** (2013.01)

Citation (search report)

- [XA] EP 0342646 A2 19891123 - KIMBERLY CLARK CO [US]
- [A] US 4440597 A 19840403 - WELLS EDWARD R [US], et al
- [A] US 4849054 A 19890718 - KLOWAK BERNARD G [US]

Cited by

US5759346A; US5851353A; US5725734A; US6139686A; GB2305674A; GB2305674B; AU710026B2; US5980691A; CN1087046C; EP1816257A1; AU2002350230B2; AU2002350230C1; US5728268A; US5855738A; EP0851062A3; CN103451324A; GB2294480A; FR2726296A1; GB2294480B; US5667636A; AU694560B2; US5888347A; WO2016081201A1; US6818101B2; US11234905B2; WO9621769A1; WO9621768A1; WO9613635A1; WO9923303A1; US7311853B2; US10342717B2; US6740200B2; US6547928B2; WO2016081200A1; US10765570B2; US7377997B2; US6733634B2; USRE42968E; US6827818B2; US6849157B2; US7156954B2; US7432309B2; US6821386B2; US6551453B2; US6824645B2; US7749355B2; WO2016081202A1; EP3178457A1; US10517775B2; US6447641B1; US10589134B2; US11000428B2; WO03027389A1; WO9813549A1; WO9821409A1; WO03054293A1; WO9624718A1; KR100385272B1; US6797117B1; US6855229B2; WO2014055728A1; EP3178458A1; WO2010004519A2; US9949906B2; US10307351B2; US11408129B2; US11732420B2; WO2011106584A1; US10132042B2; US10458069B2; US10472771B2; US10822745B2; US11725346B2; EP1027494B2

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0617164 A1 19940928; **EP 0617164 B1 19970813**; CA 2098326 A1 19940925; DE 69404883 D1 19970918; DE 69404883 T2 19980312; ES 2105384 T3 19971016

DOCDB simple family (application)

EP 94104623 A 19940323; CA 2098326 A 19930614; DE 69404883 T 19940323; ES 94104623 T 19940323