

Title (en)

Method for regulating the cross-machine shrinkage profile in a paper machine

Title (de)

Verfahren zur Regelung des Schrumpfungs-Querprofils in einer Papiermaschine

Title (fr)

Procédé pour régler le profil transversal du rétrécissement dans une machine à papier

Publication

EP 1323862 B1 20060726 (DE)

Application

EP 03001610 A 19990705

Priority

- DE 19843729 A 19980924
- EP 99112905 A 19990705

Abstract (en)

[origin: US6303001B1] Process for homogenizing the property cross direction profile of a continuous web made of paper or cardboard and a paper machine that is suitable for carrying out the above-mentioned process. The process is characterized in that the shrinkage cross direction profile of the material web is homogenized during its manufacturing process by controlling the local composition of the stock suspension sectionally across the width by changing the proportions of components that have different shrinkage behaviors. The paper machine includes an approach flow system having at least two regions that produce different stock suspensions with fiber mixtures that have different shrinkage behaviors. The stock suspension supplies from the approach flow system to the headbox have at least two branches for the at least two different stock suspensions. Near the headbox, a plurality of sectional mixing points are provided, which combine the stock suspensions that have different shrinkage behaviors. Paper is produced from the process and device.

IPC 8 full level

D21F 1/08 (2006.01); **G01B 11/26** (2006.01); **D21F 1/06** (2006.01); **D21F 7/06** (2006.01); **D21G 9/00** (2006.01); **G01B 21/32** (2006.01)

CPC (source: EP US)

D21F 1/022 (2013.01 - EP US); **D21F 1/08** (2013.01 - EP US); **D21G 9/0027** (2013.01 - EP US); **Y10S 162/11** (2013.01 - EP US)

Designated contracting state (EPC)

AT DE FI SE

DOCDB simple family (publication)

US 6303001 B1 20011016; AT E254208 T1 20031115; AT E334253 T1 20060815; CA 2283425 A1 20000324; CA 2283425 C 20081118; DE 19843729 A1 20000330; DE 59907702 D1 20031218; DE 59913719 D1 20060907; EP 0995834 A1 20000426; EP 0995834 B1 20031112; EP 1323862 A1 20030702; EP 1323862 B1 20060726; JP 2000096475 A 20000404

DOCDB simple family (application)

US 40195299 A 19990923; AT 03001610 T 19990705; AT 99112905 T 19990705; CA 2283425 A 19990923; DE 19843729 A 19980924; DE 59907702 T 19990705; DE 59913719 T 19990705; EP 03001610 A 19990705; EP 99112905 A 19990705; JP 27113499 A 19990924