

Title (en)

Method of smoothing a paper or cardboard web coated on both sides.

Title (de)

Verfahren zum Glätten einer beidseitig gestrichenen Papier- oder Kartonbahn.

Title (fr)

Procédé de lissage d'une bande de papier ou carton enduite des deux côtés.

Publication

EP 0451449 B1 19940914 (DE)

Application

EP 91101319 A 19910201

Priority

DE 4011394 A 19900409

Abstract (en)

[origin: US5137678A] To achieve desired treatment results at both sides of a material web to be calendered, the material web is initially guided through a first nip formed between yieldable elastic surfaces confronting the throughpassing material web. In the first nip there is predominantly applied a relatively high pressure to the material web. Then the material web is guided through a successively arranged second nip formed between practically non-yieldable hard surfaces confronting the throughpassing material web. In the second nip there is applied, apart from pressure, in particular heat to the material web. The treatment result achieved in the first nip, namely the smoothness and glaze values of the treated material web, are augmented at both sides of the material web to achieve desired treatment effects.

IPC 1-7

D21G 1/00

IPC 8 full level

D21G 1/00 (2006.01)

CPC (source: EP US)

D21G 1/006 (2013.01 - EP US)

Cited by

EP1225274A3; EP1336686A1; EP1304413A3; US6989077B2; US7114268B2

Designated contracting state (EPC)

AT DE FR GB IT SE

DOCDB simple family (publication)

EP 0451449 A1 19911016; EP 0451449 B1 19940914; AT E111542 T1 19940915; CA 2039956 A1 19911010; CA 2039956 C 19950425; DE 4011394 C1 19911128; DE 59102892 D1 19941020; FI 911668 A0 19910408; FI 911668 A 19911010; FI 97400 B 19960830; FI 97400 C 19961210; US 5137678 A 19920811

DOCDB simple family (application)

EP 91101319 A 19910201; AT 91101319 T 19910201; CA 2039956 A 19910408; DE 4011394 A 19900409; DE 59102892 T 19910201; FI 911668 A 19910408; US 68173591 A 19910408