

Title (en)  
METHOD OF FINISHING PAPER UTILIZING SUBSTRATA THERMAL MOLDING

Publication  
**EP 0245250 B1 19900523 (EN)**

Application  
**EP 85905975 A 19851106**

Priority  
US 8502194 W 19851106

Abstract (en)  
[origin: WO8702722A1] Process for producing gloss and smoothness on the surface of a paper web (1), comprising: A. advancing a web (1) of papermaking fibers through a nip formed by a smooth metal finishing drum (2) and a resilient backing roll (3, 5) providing a nip pressure on the web (1) of at least 13,780 KN/M<2> (2000 psi); and B. heating the drum (2) to a temperature at least high enough to heat a critical substrata portion of the web (1) to a temperature of at least the dynamic Tg of the fibers to provide an unexpected increase in gloss and surface flatness without excessively densifying the entire sheet.

IPC 1-7  
**D21F 11/00; D21G 1/00**

IPC 8 full level  
**D21G 1/00** (2006.01); **D21F 11/00** (2006.01); **D21G 9/00** (2006.01)

CPC (source: EP)  
**D21G 9/009** (2013.01)

Cited by  
DE4321061A1; DE4321061B4; DE4112537A1; US5387782A; EP0598737B2; EP0943034B2

Designated contracting state (EPC)  
AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**WO 8702722 A1 19870507**; AT E53085 T1 19900615; DE 3577894 D1 19900628; EP 0245250 A1 19871119; EP 0245250 A4 19881123; EP 0245250 B1 19900523; FI 872939 A0 19870703; FI 872939 A 19870703; FI 88733 B 19930315; JP S63500188 A 19880121; JP S6356360 B2 19881108

DOCDB simple family (application)  
**US 8502194 W 19851106**; AT 85905975 T 19851106; DE 3577894 T 19851106; EP 85905975 A 19851106; FI 872939 A 19870703; JP 50510785 A 19851106