

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

Title (de)
VEREDLUNGSVERFAHREN FÜR PAPIER MIT WÄRMEVERFORMUNG DER TRÄGERSCHICHTEN.

Title (fr)
PROCEDE DE FINISSAGE DE PAPIER FAISANT APPEL AU MOULAGE THERMIQUE DES COUCHES INFERIEURES.

Publication
EP 0245250 A4 19881123 (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**; **B05D 3/12**

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)

Citation (search report)

- [A] DE 1259692 B 19680125 - WARREN S D CO
- [AD] US 3124481 A 19640310
- [AD] US 3254593 A 19660607 - BEACHLER EDWARD D
- [AD] US 4012543 A 19770315 - RANGER HOWARD LEE, et al
- [T] DAS PAPIER, vol. 40, no. 10A, October 1986, pages V137-V143, Darmstadt, DE; G. HUNGER: "Derzeitiger Stand und Entwicklungstendenzen der Glättung und Satinage"
- See references of WO 8702722A1

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DE4112537A1; US5387782A; DE4321061A1; DE4321061B4; EP0943034B2; EP0598737B2

Designated contracting state (EPC)
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