

Title (en)
Calender and method for smoothing a fibrous web

Title (de)
Kalandern und Verfahren zum Glätten einer Faserstoffbahn

Title (fr)
Calandre et procédé de lissage d'une bande fibreuse

Publication
EP 1314821 A3 20040102 (DE)

Application
EP 02024716 A 20021106

Priority
DE 10157691 A 20011124

Abstract (en)
[origin: EP1314821A2] The calender (1) to polish the surface of a paper/cardboard web (2) has a number of press nips (6,7) in the web path through the assembly, each formed between a roller surface and counter surfaces. The counter surfaces are formed by rotating flexible mantle (4,5), pressed against the roller surface by press shoes (8,11), to form the two wide press nips at the same roller (3). One press nip (6) has a heater (15) to give a heated nip and the second press nip (7), in the direction (14) of web travel, has a cooling unit (22) to give a cold nip. The heater and the cooler act on the roller surface.

IPC 1-7
D21G 1/00

IPC 8 full level
D21G 1/00 (2006.01)

CPC (source: EP)
D21G 1/006 (2013.01)

Citation (search report)
• [XA] DE 4322876 A1 19931118 - VOITH GMBH J M [DE]
• [XA] WO 9844196 A1 19981008 - VALMET CORP [FI], et al
• [XA] WO 0116424 A1 20010308 - VALMET CORP [FI], et al

Cited by
EP1688537A1; EP2270280A1; EP2278067A1; CN102199894A; US8545677B2; WO2011000529A1

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