

Title (en)

Calender, particularly for treating a paper web

Title (de)

Kalander, insbesondere zur Behandlung einer Papierbahn

Title (fr)

Calandre, en particulier pour le traitement d' une bande de papier

Publication

EP 0945546 A3 20000223 (DE)

Application

EP 99105649 A 19990319

Priority

DE 19813640 A 19980327

Abstract (en)

[origin: EP0945546A2] At least one roller (6-9) forming the double soft nip pair (19-21) is heated. Preferred features: At least one of the two nips has a heated roller. Surfaces (22) forming the nip are smooth, with a mean roughness (Ra), of up to 0.5 μ m under operational conditions. Rollers comprise a hard core (11) and resilient surface layer (10) having a predetermined, high thermal conductivity. This layer is very thin, being less than 4 mm, and especially 0.02-2 mm thick. It is a plastic, applied as a coating. One roller (7) forming the double nip has an overcoat (13) of metal, ceramic or plastic on the surface layer. All central rollers have a resilient surface and are of the same construction.

IPC 1-7

D21G 1/00; **D21G 1/02**

IPC 8 full level

D21G 1/00 (2006.01); **D21G 1/02** (2006.01)

CPC (source: EP US)

D21G 1/00 (2013.01 - EP US)

Citation (search report)

- [A] DE 4026774 A1 19920305 - VOITH GMBH J M [DE]
- [A] WO 9741298 A1 19971106 - VALMET CORP [FI]
- [A] EP 0728867 A2 19960828 - VOITH SULZER FINISHING GMBH [DE]

Cited by

EP2194187A1; EP2325387A3; EP2314764A1; AT505347B1; DE102008044369A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0945546 A2 19990929; **EP 0945546 A3 20000223**; **EP 0945546 B1 20021106**; AT E227374 T1 20021115; CA 2267030 A1 19990927; CA 2267030 C 20040127; DE 19813640 A1 19990930; DE 59903283 D1 20021212; US 6230615 B1 20010515

DOCDB simple family (application)

EP 99105649 A 19990319; AT 99105649 T 19990319; CA 2267030 A 19990326; DE 19813640 A 19980327; DE 59903283 T 19990319; US 27719599 A 19990326