

Title (en)
Extended nip calender

Title (de)
Breitnip-Kalanderanordnung

Title (fr)
Calandre à pince allongée

Publication
EP 1533416 B1 20080730 (DE)

Application
EP 04105716 A 20041112

Priority
DE 10354581 A 20031121

Abstract (en)
[origin: EP1533416A1] A papermaking dewatering broad nip calender has a top cylinder with a flexible mantle (3) rotating in contact with a lower rigid cylinder, close contact being maintained by a shoe (4) within the upper cylinder. The upper cylinder is exposed to an array of water jets (10) and has a hydrophilic surface (12). The hydrophilic mantle (12) has a microstructure and rotates under the influence of an electrostatic field generation assembly (14, 15) and a wetting agent spray (16). The main spray (10, 1) impinges on the flexible mantle at an angle of less than 90 degrees.

IPC 8 full level
D21G 1/00 (2006.01); **D21G 7/00** (2006.01)

CPC (source: EP)
D21G 1/006 (2013.01); **D21G 1/0093** (2013.01); **D21G 7/00** (2013.01)

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