

Title (en)
Press blanket

Title (de)
Pressmantel

Title (fr)
Courroie de pressage

Publication
EP 0953678 B1 20050608 (DE)

Application
EP 99104438 A 19990305

Priority
DE 19819526 A 19980430

Abstract (en)
[origin: EP0953678A2] A new press mantle of a roller for water extraction from a wet fiber web, of paper or cardboard, has grooves (14) or blind drillings at the roller mantle surface (12). The side walls (18) are chamfered (20) and/or rounded (20') on a curved line at the opening, to prevent compression of the opening when the mantle is under pressure. The chamfer (20) edge length (y), towards the depth of the groove/drilling, is 1-3 times and preferably twice the edge length (x) along the longitudinal direction. The chamfer edge length on the longitudinal line (x) is 0.1-0.3 mm, especially 0.2 mm. With a rounded opening edge (20'), the length (y) of the edge in relation to a tangent is 1-3 times, preferably twice the edge length (x) along the longitudinal line which is 0.1-0.3 mm and preferably 0.2 mm. The chamfered/rounded edge (20,20') length (y) towards the depth of the groove/drilling is set to give a cylindrical wall section (24) between the base (22) of the groove (14) or drilling and the start of the chamfered/rounded edge. The curvature of the rounded edge (20') follows a circular arc or an involute. The chamfered/rounded edge (20,20') is at the outer edge of each groove (14) or blind drilling, or it is offset inwards towards the depth by a given gap from the mantle surface as a ring step.

IPC 1-7
D21F 3/08; **D21F 3/02**

IPC 8 full level
D21F 3/00 (2006.01); **D21F 3/02** (2006.01); **D21F 3/08** (2006.01)

CPC (source: EP US)
D21F 3/0227 (2013.01 - EP US); **D21F 3/083** (2013.01 - EP US); **D21F 3/086** (2013.01 - EP US); **Y10S 462/901** (2013.01 - EP US); **Y10T 428/24669** (2015.01 - EP US); **Y10T 428/24694** (2015.01 - EP US)

Cited by
EP1666664A4; US7144480B2; US7540942B2; WO2004094720A1

Designated contracting state (EPC)
AT DE FI GB SE

DOCDB simple family (publication)
EP 0953678 A2 19991103; **EP 0953678 A3 20010207**; **EP 0953678 B1 20050608**; **EP 0953678 B2 20110504**; AT E297484 T1 20050615; DE 19819526 A1 19991104; DE 59912133 D1 20050714; JP 4331315 B2 20090916; JP H11335992 A 19991207; US 6416630 B1 20020709

DOCDB simple family (application)
EP 99104438 A 19990305; AT 99104438 T 19990305; DE 19819526 A 19980430; DE 59912133 T 19990305; JP 12050499 A 19990427; US 29901299 A 19990426