

Title (en)
Paper machine clothing

Title (de)
Papiermaschinenbespannung

Title (fr)
Habillage de machine à papier

Publication
EP 1637645 A2 20060322 (DE)

Application
EP 05106908 A 20050727

Priority
DE 102004044572 A 20040915

Abstract (en)
The covering (2, 3) includes supporting locations on the side facing the fibrous web. Their density is in the range 1400/cm² to 1700/cm² or more. They are formed by thread crossing points in the weave, and run in the machine- and transverse directions. The thread configuration is circular or flattened in relation to the plane of the covering, especially elliptical in cross section. Diameter of the circular threads ranges from 0.13 mm down to 0.08 mm or less. The covering is a self-stitched binding (SSB). The covering is a membrane, the supports being formed by raised locations. These are points or hills (27) facing the fibrous web, elsewhere the surface is planar. Raised locations have a height of up to 0.08 mm and their diameter is 0.1-0.4 mm. The thickness is especially less than 0.58 mm. The number of empty spaces within the fabric on the side facing the fibrous web is less than or equal to the corresponding number on the opposite side. The side facing the web is ground down or calendered. In a variant, the raised portions are formed by a casting mold, injection molding, boring, or spark erosion. The fibrous web is produced at a rate of up to 1800 m/min or more.

IPC 8 full level
D21F 1/00 (2006.01); **D21F 7/08** (2006.01); **D21F 9/00** (2006.01)

CPC (source: EP US)
D21F 1/0027 (2013.01 - EP US); **D21F 7/08** (2013.01 - EP US); **D21F 9/003** (2013.01 - EP US); **Y10S 162/903** (2013.01 - EP US); **Y10T 428/24273** (2015.01 - EP US); **Y10T 428/24281** (2015.01 - EP US); **Y10T 428/24289** (2015.01 - EP US); **Y10T 428/24479** (2015.01 - EP US); **Y10T 428/24628** (2015.01 - EP US); **Y10T 442/3065** (2015.04 - EP US); **Y10T 442/3854** (2015.04 - EP US)

Cited by
WO2012016875A1; WO2008087107A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1637645 A2 20060322; **EP 1637645 A3 20060607**; **EP 1637645 B1 20080305**; AT E388267 T1 20080315; DE 102004044572 A1 20060330; DE 502005003060 D1 20080417; ES 2302132 T3 20080701; US 2006063451 A1 20060323; US 7491297 B2 20090217

DOCDB simple family (application)
EP 05106908 A 20050727; AT 05106908 T 20050727; DE 102004044572 A 20040915; DE 502005003060 T 20050727; ES 05106908 T 20050727; US 22781505 A 20050914