

Title (en)

CELLULOSIC WEB, METHOD AND APPARATUS FOR MAKING THE SAME USING PAPERMAKING BELT HAVING ANGLED CROSS-SECTIONAL STRUCTURE, AND METHOD OF MAKING THE BELT

Title (de)

ZELLULOSEBAHN, VERFAHREN UND VORRICHTUNG ZU SEINER HERSTELLUNG MITTELS EINES PAPIERMACHERBANDES MIT SCHRÄGER QUERSCHNITTSSTRUKTUR, UND VERFAHREN ZUR HERSTELLUNGDES BANDES

Title (fr)

BANDE CELLULOSIQUE, PROCEDE ET APPAREIL PERMETTANT DE PRODUIRE LADITE BANDE A L'AIDE D'UNE COURROIE A STRUCTURE TRANSVERSALE ANGULAIRE, ET PROCEDE DE FABRICATION DE LADITE COURROIE

Publication

EP 0988419 A1 20000329 (EN)

Application

EP 98928823 A 19980518

Priority

- US 9810166 W 19980518
- US 85866197 A 19970519
- US 85866297 A 19970519

Abstract (en)

[origin: WO9853138A1] A papermaking through-air drying belt (10) and a method of making the same, as well as a paper web produced on the belt and the process of making the web are disclosed. The belt (10) comprises a resinous framework (20) having a web side surface (21) defining an X-Y plane, a backside surface (22) opposite the web-side surface, a Z-direction perpendicular to the X-Y plane, and a plurality of discrete deflection conduits (30) extending between the web-side surface and the backside surface. Each of the discrete conduits (30) has an axis (33) and walls (35). The axes (33) of at least some of the discrete conduits (30) and the Z-direction form acute angles (Q) therebetween. Preferably, the belt also comprises an air-permeable reinforcing structure (50) joined to the resinous framework (20). The paper web produced on the belt has at least two regions disposed in a non-random and repeating pattern: macroscopically monoplanar, patterned, and essentially continuous network region, and a domes region comprising discrete domes extending from the network region in at least one direction such that this at least one direction and the Z-direction form an acute angle therebetween.

IPC 1-7

D21F 11/00

IPC 8 full level

D21F 3/00 (2006.01); **D21F 1/10** (2006.01); **D21F 5/18** (2006.01); **D21F 7/08** (2006.01); **D21F 11/00** (2006.01)

CPC (source: EP KR)

D21F 11/006 (2013.01 - EP KR)

Citation (search report)

See references of WO 9853138A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 9853138 A1 19981126; AT E323192 T1 20060415; AU 8053098 A 19981211; BR 9809874 A 20000704; CA 2290494 A1 19981126; CA 2290494 C 20050412; CN 1263574 A 20000816; DE 69834186 D1 20060524; DE 69834186 T2 20070412; EP 0988419 A1 20000329; EP 0988419 B1 20060412; JP 2002515094 A 20020521; KR 20010012683 A 20010226

DOCDB simple family (application)

US 9810166 W 19980518; AT 98928823 T 19980518; AU 8053098 A 19980518; BR 9809874 A 19980518; CA 2290494 A 19980518; CN 98807130 A 19980518; DE 69834186 T 19980518; EP 98928823 A 19980518; JP 55050098 A 19980518; KR 19997010644 A 19991117