

2 Jun 06
200603763-4

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



162162

(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number
WO 2005/047597 A3

(51) International Patent Classification⁷: **B01D 39/00**

(21) International Application Number:
PCT/US2004/027247

(22) International Filing Date: 19 August 2004 (19.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/518,266 7 November 2003 (07.11.2003) US

(71) Applicant (for all designated States except US):
KOSLOW TECHNOLOGIES CORPORATION
[US/US]; 269 South Lambert Road, Orange, CT 06477
(US).

(72) Inventor: **KOSLOW, Evan, E.**; 14 Twelve O'Clock Road,
Weston, CT 06883 (US).

(74) Agent: **CURCIO, Robert**; DeLIO & PETERSEN,
LLC, 121 Whitney Avenue, New Haven, Connecticut
06510-1241 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
25 August 2005

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

WO 2005/047597 A3



ACTION

(54) Title: FIBER-FIBER COMPOSITES

(57) Abstract: A fiber-fiber composite is disclosed herein comprising majority fibers and minority fibers, the minority fibers having a softening point lower than said majority fibers such that when the admixture of majority fibers and minority fibers are wet laid to form a paper-like structure and subjected to a pressure and a temperature above the softening point of said minority fibers, said majority fibers and minority fibers form said composite having a mean pore diameter equal to or less than about 1 μ m with a porosity of greater than about 35%, and a wet strength of greater than about 0.013 kg/mm.