

29 APR 2003

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

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
30 May 2002 (30.05.2002)

PCT

(10) International Publication Number
WO 02/42530 A1(51) International Patent Classification⁷: **D01F 6/04**, 6/06,
8/06, 1/10, D04H 1/42, 3/00, A61L 15/24**TaHua**; 575 Avalon Gardens Drive, Nanuet, NY 10954
(US). **HORSEY, Douglas, Wayne**; 5 Simpson Road, Bri-
arcliff Manor, NY 10510 (US).

(21) International Application Number: PCT/EP01/13132

(22) International Filing Date:
13 November 2001 (13.11.2001)

(25) Filing Language: English

(26) Publication Language: English

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, 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, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZW.(30) Priority Data:
60/252,573 22 November 2000 (22.11.2000) US
60/274,161 8 March 2001 (08.03.2001) US
60/311,287 9 August 2001 (09.08.2001) US
60/322,638 17 September 2001 (17.09.2001) US(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
TG).(71) Applicant: **CIBA SPECIALTY CHEMICALS HOLD-
ING INC.** [CH/CH]; Klybeckstrasse 141, CH-4057 Basel
(CH).**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

(72) Inventors: **Li, Sheng-Shing**; 16 Wedgewood Drive, Dan-
bury, CT 06811 (US). **LEGGIO, Andrew, Joseph**; 41 Lex-
ington Avenue, Franklin Square, NY 11010 (US). **MEN-
ZIE, George, H.**; 20 Narragansett Trail, Sandy Hook, CT
06482 (US). **DEVORE, David**; 10 Forest Ridge Road, Ny-
ack, NY 10960 (US). **MCNAMARA, John, James**; 45
West Shore Drive, Putnam Valley, NY 10579 (US). **YU,**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.

162162



ACTION

WO 02/42530 A1

(54) Title: WETTABLE POLYOLEFIN FIBERS AND FABRICS

(57) Abstract: Polyolefin woven and nonwoven fibers, filaments and fabrics made therefrom which comprise a melt blend which comprises (a) a polyolefin; and (b) at least one compound of the formula (I), wherein R₁ is a straight or branched chain alkyl of 22 to 40 carbon atoms and the hydrophilic oligomer is a homo- or co-oligomer consisting of between 2 and 10 monomer units derived from monomers selected from the group consisting of ethylene oxide, propylene oxide, ethylene glycol, propylene glycol, epichlorhydrin, acrylic acid, methacrylic acid, ethylene imine, caprolactone, vinyl alcohol and vinyl acetate; exhibit excellent durable wettability. The fabrics are useful in disposable diapers, training pants, feminine napkins, tampons, incontinence care products, wet and dry wipes, wound dressings, surgical capes, filter media, battery separators and the like.