

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/012450 A1

(51) International Patent Classification⁷: **C09D 175/16**,
C08G 18/76, 18/48, 18/67

(21) International Application Number:
PCT/US2004/022595

(22) International Filing Date: 13 July 2004 (13.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/629,273 29 July 2003 (29.07.2003) US

(71) Applicant (for all designated States except US): **CROMPTON CORPORATION** [US/US]; Benson Road, Middlebury, CT 06749 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ZHU, Zhenya** [CN/US]; 3 Allison Lane, New Milford, CT 06776 (US). **KHUDYAKOV, Igor, V.** [US/US]; 4413 Fox Trail, Hickory, NC 28601 (US). **ROSENBERG, Ronald, O.** [US/US]; 781 Quarter Mile Road, Orange, CT 06477 (US).

(74) Agent: **DILWORTH, Michael, P.**; Crompton Corporation, Benson Road, Middlebury, CT 06749 (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

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

(54) Title: RADIATION-CURABLE POLYURETHANE

(57) Abstract: A radiation-curable polyurethane is obtained from the reaction of a low free diisocyanate polyurethane prepolymer and an acrylic monomer.

