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(21) International Application Number: PCT/US00/09967 (22) International Filing Date: 13 April 2000 (13.04.00) (30) Priority Data: 60/129,277 14 April 1999 (14.04.99) US (71) Applicant: THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Midland, MI 48674 (US). (72) Inventors: KOONCE, William, A.; 420 Garland Drive, Apartment 411, Lake Jackson, TX 77566 (US). BHATTACHARJEE, Deb Kumar; 54 Waterlily Court, Lake Jackson, TX 77566 (US). GRIBBLE, Michael, Y.; Schwalbendonestrasse 49, CH-8832 Wolleerau (CH). MCINTYRE, James, A.; 2115 Burlington Court, Midland, MI 48642 (US). (74) Agent: JOZWIAK, Elisabeth, T.; Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967 (US).		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: POLYURETHANE FILMS PREPARED BY ELECTRODEPOSITION FROM POLYURETHANE DISPERSIONS (57) Abstract A process for preparing polyurethane films is disclosed, comprising electrodepositing the film onto a substrate from a polyurethane dispersion. One advantage of the electrodeposition process of the present invention is that there is no need for an additional step to remove coagulants from the films, as with conventional coagulation processes. Another advantage is that in using electrodeposition, the amount of water that must be removed during a dewatering step is minimized. A third advantage is that the resulting film demonstrates much greater uniformity in thickness as compared to films prepared by conventional coagulation techniques. The present invention has applicability in, for example, medical applications.		

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