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(21) International Application Number: PCT/US98/21250 (22) International Filing Date: 7 October 1998 (07.10.98) (30) Priority Data: 09/145,658 2 September 1998 (02.09.98) US (71) Applicant: SIMULA, INC. [US/US]; 10016 S. 51st Street, Phoenix, AZ 85044 (US). (72) Inventor: SLAGEL, Edwin, C.; 10920 Sieno Place, Avondale, AZ 85323 (US). (74) Agents: GOTTS, Lawrence, J. et al.; Crowell & Moring LLP, 1001 Pennsylvania Avenue, N.W., Washington, DC 20004 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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>
(54) Title: IMPACT RESISTANT POLYURETHANE AND METHOD OF MANUFACTURE THEREOF (57) Abstract The present invention is an optically clear, high hardness, impact resistant polyurethane which provides exceptionally high heat distortion temperatures and excellent chemical resistance. The invention is particularly useful for transparency applications that require excellent impact resistance coupled with high heat distortion temperatures, such as architectural glazings vehicles, glazings, riot shields, aircraft canopies, face masks, visors, opthalmic and sun lenses, protective eyewear, and transparent armor.		