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(21) International Application Number: PCT/US98/00315 (22) International Filing Date: 12 January 1998 (12.01.98) (30) Priority Data: 08/783,487 14 January 1997 (14.01.97) US (71) Applicant: UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC. [US/US]; Boyd Graduate Studies Research Center, Athens, GA 30602-7411 (US). (72) Inventor: YANG, Charles, Qixiang; 189 Elderberry Circle, Athens, GA 30605 (US). (74) Agent: BEARDELL, Lori, Y.; Woodcock Washburn Kurtz Mackiewicz & Norris, 46th floor, One Liberty Place, Philadelphia, PA 19103 (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, GW, 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, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report. 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: CROSS-LINKING AGENTS OF CELLULOSIC FABRICS (57) Abstract Cellulosic materials such as cotton fabrics and paper are cross-linked with a composition comprising (A) polymers of ethylenically unsaturated polycarboxylic acid monomers or salts thereof, the monomers having one or more dicarboxylic groups wherein the carboxyl groups are on adjacent carbon atoms; (B) saturated α-hydroxypolycarboxylic acids or salts thereof; and (C) one or more curing catalysts, and heated to produce esterification and cross-linking of the cellulose by reaction of the cellulosic hydroxyl groups with carboxyl groups in the reaction product of (A) and (B).		