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(21) International Application Number: PCT/US96/08188 (22) International Filing Date: 30 May 1996 (30.05.96) (30) Priority Data: 08/454,451 30 May 1995 (30.05.95) US (71) Applicant: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; Business and Patent Law, Mail Stop D412, Los Alamos, NM 87545 (US). (71)(72) Inventors: SMITH, Barbara, F. [US/US]; 1274 46th Street, Los Alamos, NM 87544 (US). ROBISON, Thomas, W. [US/US]; 348 Kimberly Lane, Los Alamos, NM 87544 (US). GOHDES, Joel, W. [US/US]; 1877-B 22nd Street, Los Alamos, NM 87544 (US). (74) Agents: COTTRELL, Bruce, H. et al.; Los Alamos National Laboratory, Mail Stop D412, Los Alamos, NM 87545 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), 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.</i>
(54) Title: WATER-SOLUBLE POLYMERS AND COMPOSITIONS THEREOF (57) Abstract Water-soluble polymers including functionalization from the group of amino groups, carboxylic acid groups, phosphonic acid groups, phosphonic ester groups, acylpyrazolone groups, hydroxamic acid groups, aza crown ether groups, oxy crown ethers groups, guanidinium groups, amide groups, ester groups, aminodicarboxylic groups, permethylated polyvinylpyridine groups, permethylated amine groups, mercaptosuccinic acid groups, alkyl thiol groups, and N-alkylthiourea groups are disclosed.		