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(21) International Application Number: PCT/US96/17907 (22) International Filing Date: 7 November 1996 (07.11.96) (30) Priority Data: 08/555,236 8 November 1995 (08.11.95) US (71) Applicant: MINERALS TECHNOLOGIES INC. [US/US]; 405 Lexington Avenue, New York, NY 10174-1901 (US). (72) Inventor: DRUMMOND, Donald, K.; 11 Lauren Lane, Glen- moore, PA 19343 (US). (74) Agents: RICHARDS, John; Ladas & Parry, 26 West 61st Street, New York, NY 10023 (US) et al.		(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, HU, 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, <u>SG</u> , 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> <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: SYNTHETIC MINERAL MICROPARTICLES AND RETENTION AID AND WATER TREATMENT SYSTEMS AND METHODS USING SUCH PARTICLES (57) Abstract A composition comprising the product precipitated in the admixing of a soluble metal salt and one or more compounds having a component selected from silicates, phosphates and borates; and a method for controlling drainage and/or retention in the formation of a paper matrix or for treating water comprising the use of such product.		