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(21) International Application Number: PCT/US96/10095 (22) International Filing Date: 7 June 1996 (07.06.96) (30) Priority Data: 08/483,032 7 June 1995 (07.06.95) US (71) Applicant: ANZON INC. [US/US]; 2545 Aramingo Avenue, Philadelphia, PA 19125 (US). (71)(72) Applicant and Inventor: McLAUGHLIN, John, R. [US/US]; 240 High View Lane, Media, PA 19063 (US). (72) Inventors: PODWIRNY, Philip, S.; 502 Graisbury Avenue, Haddonfield, NJ 08033 (US) MORLEY, John, C.; 538 Mill Brook Road, Devon, PA 19333 (US). (74) Agents: HANDLER, Edward, J., III et al.; Kenyon & Kenyon, 1025 Connecticut Avenue, N.W., Washington, DC 20036 (US).		(81) Designated States: AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, 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 With international search report.	
(54) Title: COLLOIDAL PARTICLES OF SOLID FLAME RETARDANT AND SMOKE SUPPRESSANT COMPOUNDS AND METHODS FOR MAKING THEM			
(57) Abstract The present invention concerns finely divided particles of compounds that provide flame retardancy and/or smoke suppressant properties to fibers, textiles, polymeric articles, paper, paint, coating and insulation. More particularly, the present invention concerns colloidal-sized particles of hydrated salts, organic phosphates, metal borates, polyamides, solid halogenated flame retardants with a melting point greater than 250 °C, molybdenum compounds, metallocenes, antimony compounds, zinc compounds, bismuth compounds and other solid chemicals which act as flame retardants or smoke suppressants. The present invention also concerns various milling processes to reduce these materials to colloidal sizes and to disperse them in water, organic liquids and meltable solids.			