



- (51) **International Patent Classification:**
A01N 59/20 (2006.01) *A01N 25/34* (2006.01)
- (21) **International Application Number:**
PCT/US2012/051251
- (22) **International Filing Date:**
17 August 2012 (17.08.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/524,494 17 August 2011 (17.08.2011) US
- (71) **Applicant (for all designated States except US):** **ARCH CHEMICALS, INC.** [US/US]; 5660 New Northside Drive NW, Suite 1100, Atlanta, Georgia 30328 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **KAPPOCK, Paul S.** [US/US]; 1025 Windermere Crossing, Cumming, Georgia 30041 (US). **MARTIN, Robert J.** [US/US]; 318 Westover Drive, Ashville, North Carolina 28801 (US).
- (74) **Agents:** **ARNOLD, Gianna Julian** et al.; SAUL EWING LLP, 500 East Pratt Street, Suite 900, Baltimore, Maryland 21201 (US).

(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) **Title:** SYNTHESIS OF COPPER PYRITHIONE FROM ZINC PYRITHIONE AND COPPER COMPOUND

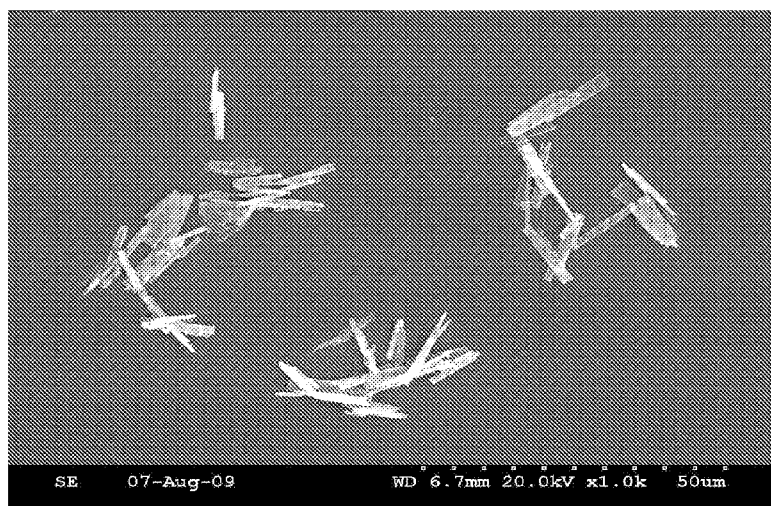


FIGURE 1

(57) **Abstract:** A composition containing unique particles of copper pyrithione wherein greater than 20 wt% to 90 wt% of the particles have a particle size of greater than 10 microns, as determined by laser light scattering using a particle size distribution analyzer, and wherein the particles are flat acicular needle-shaped is described herein. Also described herein is an antifouling paint containing the copper pyrithione and a method of making the composition and antifouling paint.

