

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 September 2003 (12.09.2003)

PCT

(10) International Publication Number
WO 03/074447 A2

(51) International Patent Classification⁷: **C05G**
(21) International Application Number: PCT/US02/39201
(22) International Filing Date: 6 December 2002 (06.12.2002)
(25) Filing Language: English
(26) Publication Language: English

(30) Priority Data:
10/013,285 7 December 2001 (07.12.2001) US

(71) Applicant (*for all designated States except US*): **SPECIALITY FERTILIZER PRODUCTS, LLC** [US/US];
134 Cherry Hill Drive, Belton, MO 64012 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SANDERS, John, L.** [US/US]; 13101 Canterbury, Leawood, KS 66209 (US). **MAZO, Grigory** [US/US]; 1327 Central Avenue, Wilmette, IL 60091-2512 (US). **MAZO, Jacob** [US/US]; 1327 Central Avenue, Wilmette, IL 60091-2512 (US).

(74) Agent: **SKOCH, Greg, J.**; Hovey Williams LLP, 2405 Grand Boulevard, Suite 400, Kansas City, MO 64108 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTI-EXPLOSIVE FERTILIZER COATINGS

(57) Abstract: Coatings for agricultural grade fertilizer particles and industrial grade ammonium nitrate are provided which when applied to particles form a protective film which acts as a barrier to inhibit or prevent hydrocarbon infiltration of the fertilizer particle pores and also to physically separate the fertilizer particles and hydrocarbon materials.. In so doing, the coating greatly reduces the efficacy of the fertilizer particles as an oxidizing agent for use in incendiary devices, thereby deterring or preventing the use of agricultural grade fertilizers or industrial grade ammonium nitrate in creating weapons of terror.



WO 03/074447 A2