

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 November 2009 (05.11.2009)

PCT

(10) International Publication Number
WO 2009/134236 A1

(51) International Patent Classification:
C10M 103/06 (2006.01) *C10M 107/32* (2006.01)

(21) International Application Number:
PCT/US2008/012857

(22) International Filing Date:
17 November 2008 (17.11.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
12/079,963 28 April 2008 (28.04.2008) US

(71) Applicant (for all designated States except US): **PPT RESEARCH, INC.** [US/US]; 515 Business Park Lane, Allentown, PA 18109 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **WARD, Irl, E.**; 1493 Amherst Court, Bethlehem, PA 18015 (US).

(74) Agent: **LEZDEY, John**; 2401 West Bay Drive, Suite 118, Largo, FL 33770 (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, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, 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: A CUTTING AND LUBRICATING COMPOSITION FOR USE WITH A WIRE CUTTING APPARATUS

(57) Abstract: The invention relates to a cutting and lubricating suspension composition containing gelatinous particles for cutting hard and brittle material with a wire saw. The composition contains an in situ partially neutralized polyelectrolyte and a glycol which suspends abrasive particles used in the cutting operation.



WO 2009/134236 A1