



(43) International Publication Date
12 September 2013 (12.09.2013)

(51) International Patent Classification:

C06B 31/00 (2006.01) C06B 31/28 (2006.01)
C06B 31/02 (2006.01) C06B 31/30 (2006.01)
C06B 31/08 (2006.01)

(21) International Application Number:

PCT/AU2013/000219

(22) International Filing Date:

8 March 2013 (08.03.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2012900943 9 March 2012 (09.03.2012) AU

(71) Applicant: DYNOL NOBEL ASIA PACIFIC PTY LIMITED [AU/AU]; Level 8, 28 Freshwater Place, Southbank, Victoria 3006 (AU).

(72) Inventors: GORE, Jeff; 5 Woodland Road, Mt Thorley, New South Wales 2330 (AU). PARIS, Nathan; 5 Woodland Road, Mt Thorley, New South Wales 2330 (AU).

(74) Agent: HODGKINSON MCINNES PATENTS; Level 21, 201 Elizabeth Street, Sydney, New South Wales 20000 (AU).

(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, PA, 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: MODIFIED BLASTING AGENT

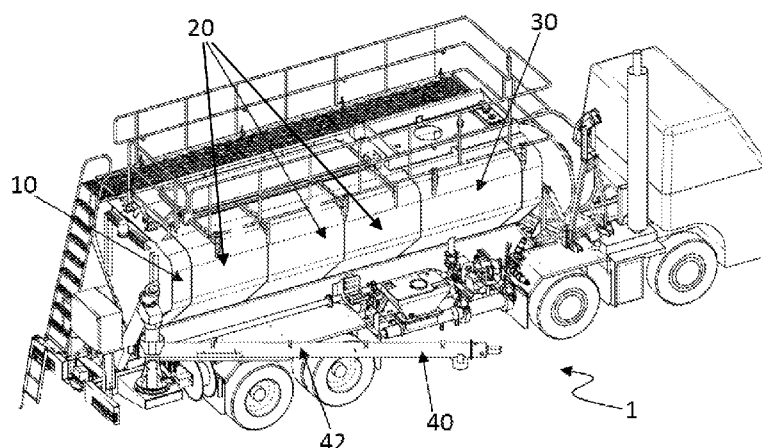


Figure 1

(57) Abstract: The present invention relates generally to an explosive composition comprising an aqueous emulsion of: an oxidizer component, a hydrocarbon fuel component containing emulsifier, and a bulking agent being a fuel-type waste material in a solid particulate form substantially lacking rough surfaces and sharp edges. Preferably the composition is of an ammonium nitrate based emulsion and a pelletised bulking agent. It also involves a method of providing an explosive composition to a blast site using a conventional mobile processing unit (MPU), being a truck having separate compartments adapted for holding fuel oil, dry ammonium nitrate prill, and ammonium nitrate based emulsion, where a compartment instead holds particulate waste material. It also concerns a method of blasting soft and wet ground, which comprises injecting into one or more blast holes in the soft and wet ground a sufficient quantity of the composition, and then setting off the composition.



WO 2013/131139 A1