



(51) International Patent Classification:

C01G 5/00 (2006.01) *C09C 1/62* (2006.01)
B22F 1/00 (2006.01) *C09C 3/08* (2006.01)
B22F 7/08 (2006.01) *C21C 1/04* (2006.01)
B22F 9/24 (2006.01)

(21) International Application Number:

PCT/GB2013/052817

(22) International Filing Date:

29 October 2013 (29.10.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/719,700 29 October 2012 (29.10.2012) US
61/772,343 4 March 2013 (04.03.2013) US
61/781,338 14 March 2013 (14.03.2013) US

(71) Applicant: ALPHA METALS, INC. [US/US]; 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US).

(71) Applicant (for MG only): SETNA, Rohan [GB/GB]; Boulton Wade Tennant, Verulam Gardens, 70 Gray's Inn Road, London WC1X 8BT (GB).

(72) Inventors: PANDHER, Ranjit; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). KHASELEV, Oscar; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). BHATKAL, Ravi; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). RAUT, Rahul; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). SINGH, Bawa; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield,

New Jersey 07080 (US). RIBAS, Morgana; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey NJ 07080 (US). GHOSAL, Shamik; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). SARKAR, Siuli; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). MUKHERJEE, Sutapa; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). KUMAR, Sathish; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). CHANDRAN, Remya; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). VISHWANATH, Pavan; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). PACHAMUTHU, Ashok; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). BOUREGHDA, Monnir; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). DESAI, Nitin; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). LIFTON, Anna; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US). CHAKI, Nirmalya Kumar; c/o Fry's Metals, Inc., 109 Corporate Blvd., South Plainfield, New Jersey 07080 (US).

(74) Agent: BOULT WADE TENNANT; Verulam Gardens, 70 Gray's Inn Road, London, Greater London WC1X 8BT (GB).

(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, IR, IS, JP, KE, KG, KN, KP, KR,

[Continued on next page]

(54) Title: SINTERING POWDER

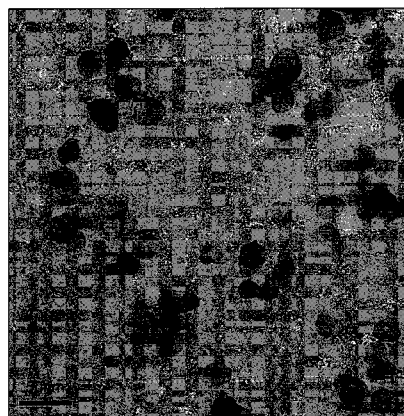
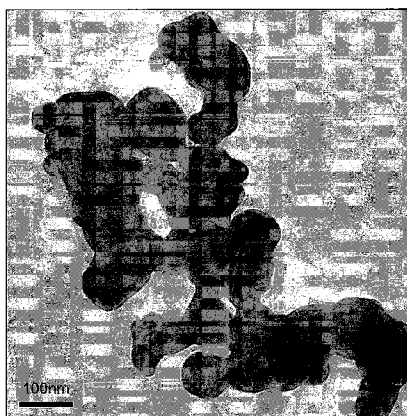


FIG. 1

(57) Abstract: A sintering powder comprising: a particulate having a mean longest diameter of less than 10 microns, wherein at least some of the particles forming the particulate comprise a metal at least partially coated with a capping agent.



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, SA, 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.

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, KM, ML, MR, NE, SN, TD, TG).

(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,

Published:

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