



- (51) **International Patent Classification:**
C09K 5/06 (2006.01) **F28D 20/02** (2006.01)
C09K 15/18 (2006.01)
- (21) **International Application Number:**
PCT/SG2014/000308
- (22) **International Filing Date:**
26 June 2014 (26.06.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
201304943-2 26 June 2013 (26.06.2013) SG
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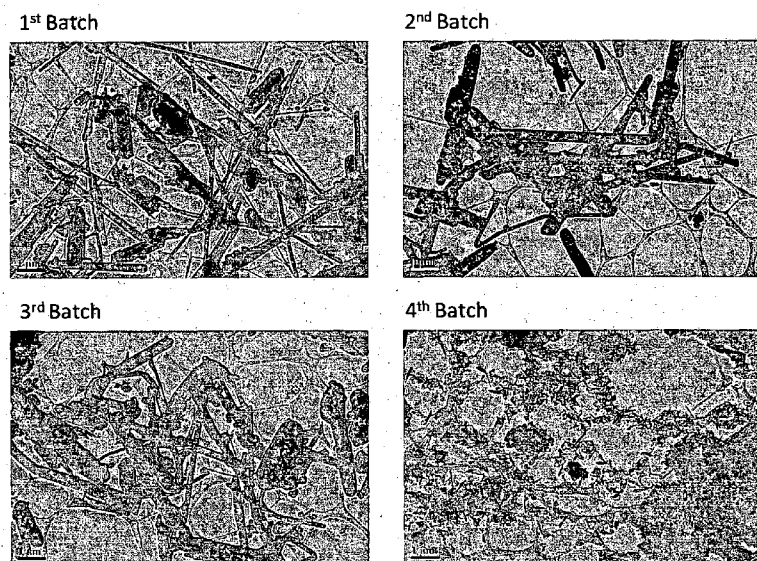
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(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,

[Continued on next page]

- (54) **Title:** METAL-CONTAINING PARTICLES, PROCESSES FOR THEIR PREPARATION, AND USES THEREOF

FIG. 3



(57) **Abstract:** There is provided a process for producing metal-containing particles, comprising the steps of forming a reaction mixture comprising (i) a metal salt, and (ii) a reaction medium comprising capping agent; and subjecting the reaction mixture to heat conditions to enable the formation of elemental metal, thereby forming the metal-containing particles. There is also provided a thermally conductive composition comprising a heat transfer medium and the disclosed metal-containing particles, and methods for its preparation.



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.

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, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,

Published:

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