



(51) International Patent Classification:

C08L 77/02 (2006.01) C08K 3/22 (2006.01)
C08L 77/06 (2006.01) C08K 3/34 (2006.01)
C08K 5/20 (2006.01) C08K 3/04 (2006.01)

(21) International Application Number:

PCT/CN2012/076319

(22) International Filing Date:

31 May 2012 (31.05.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PCT/CN2011/082153

14 November 2011 (14.11.2011)

CN

(71) Applicant (for all designated States except US): **HONEYWELL INTERNATIONAL, INC.** [US/US]; 101 Columbia Road, Morristown, New Jersey 07962 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HUANG, Jianfeng** [CN/CN]; 18-201, Shangpu Rd. 329, Pudong, Shanghai 200124 (CN). **YUAN, Jiayu** [CN/CN]; 430 Li Bing Road, Shanghai 201203 (CN). **WANG, Lei** [CN/CN]; #54-801, 4333 Zhenbei Road, Shanghai 200000 (CN). **PENG, Shuwen** [CN/CN]; Room 201, No. 68, Lane 459, East Boshan Road, Pudong, Shanghai 200135 (CN). **WEI, Jie** [CN/CN]; 430 Li Bing Road, Zhang Jiang Hi-Tech Park, Pudong New Area, Shanghai 201203 (CN).

(74) Agent: **CHINA PATENT AGNET (HK)LTD**; 22/F., Great Eagle Center, 23 Harbour Road, Wanchai district, Hong Kong (CN).

(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, 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,

[Continued on next page]

(54) Title: POLYAMIDE COMPOSITION FOR LOW TEMPERATURE APPLICATIONS

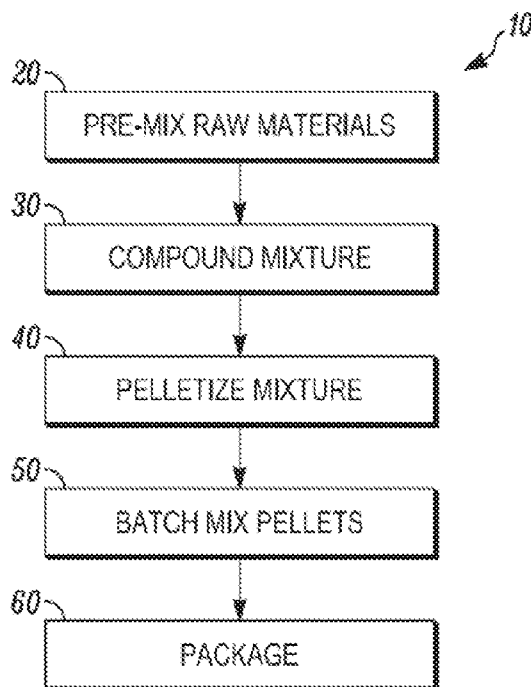


FIG. 1

(57) Abstract: A polyamide composition is formed from a low viscosity polyamide-6 and a nucleating agent. The nucleating agent includes an organic material, a first inorganic material and a second inorganic material. Suitable organic materials include organic polymers. Suitable inorganic metallic materials include metal oxides and silicates. The polyamide composition may include polyamide-66 materials and carbon black.



MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, 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.

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).

(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))*