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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
18 September 2014 (18.09.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/140383 A1

(51) International Patent Classification:
C08K 5/00 (2006.01) *C08K 3/00* (2006.01)
C08K 5/098 (2006.01)

(21) International Application Number:
PCT/EP2014/055350

(22) International Filing Date:
17 March 2014 (17.03.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/789,731 15 March 2013 (15.03.2013) US
13181133.3 21 August 2013 (21.08.2013) EP

(71) Applicant: **BAERLOCHER GMBH** [DE/DE]; Freisinger Str. 1, 85716 Unterschleißheim (DE).

(72) Inventors: **TORCHIA, Steven, R.**; 5890 Highland Ridge Dr, Cincinnati, Ohio 45232 (US). **HUDSON, Rich**; 4377 Breymard Avenue, Cincinnati, Ohio 45241 (US). **ROMANOVA, Tatiana**; 6052 Windy Hollow Court, Loveland, Ohio 45140 (US).

(74) Agent: **FIESSER, Gerold**; Herzog Fiesser & Partner, Isartorplatz 1, 80331 München (DE).

(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, 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.

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

Published:

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

— *with information concerning incorporation by reference of missing parts and/or elements (Rule 20.6)*

(54) Title: STABILIZED POLYMER COMPOSITIONS AND METHODS OF MAKING SAME

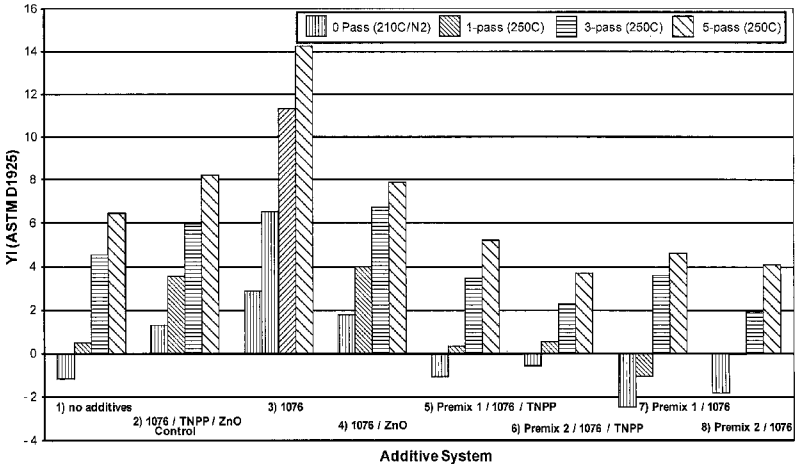

FIG. 1

(57) Abstract: The invention relates to stabilizer compositions for polymers such as polyolefin polymers, which decrease a phosphorus based stabilizer content necessary to stabilize the polymer. The premixed stabilizer compositions include an antacid, an organic acid-metal salt, and a primary antioxidant such as a sterically-hindered phenolic compound, a sterically-hindered amine compound, a hydroxylamine compound, and combinations thereof. The premixed stabilizer may further include a portion of the phosphorus based stabilizer content necessary to stabilize the polymer. The invention also relates to a method for the preparation of the stabilized polymer compositions provided by the use thereof.

WO 2014/140383 A1