



- (51) **International Patent Classification:**
C08L 23/06 (2006.01) *C08L 23/08* (2006.01)
- (21) **International Application Number:**
PCT/US2014/021132
- (22) **International Filing Date:**
6 March 2014 (06.03.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/794,070 11 March 2013 (11.03.2013) US
- (71) **Applicant:** CHEVRON PHILLIPS CHEMICAL COMPANY LP [US/US]; 10001 Six Pines Drive, The Woodlands, Texas 77380 (US).
- (72) **Inventors; and**
- (71) **Applicants :** TSO, Chung C [US/US]; 5641 Chestnut Hill, Bartlesville, Oklahoma 74006 (US). SUKHADIA, Ashish M [US/US]; 2550 SE Regency Road, Bartlesville, Oklahoma 74006 (US). MASINO, Albert P [US/US]; 8628 S Oswego Drive, Tulsa, Oklahoma 74137 (US).
- (74) **Agent:** HUSEMAN, Cheryl, L.; Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, Texas 77380 (US).

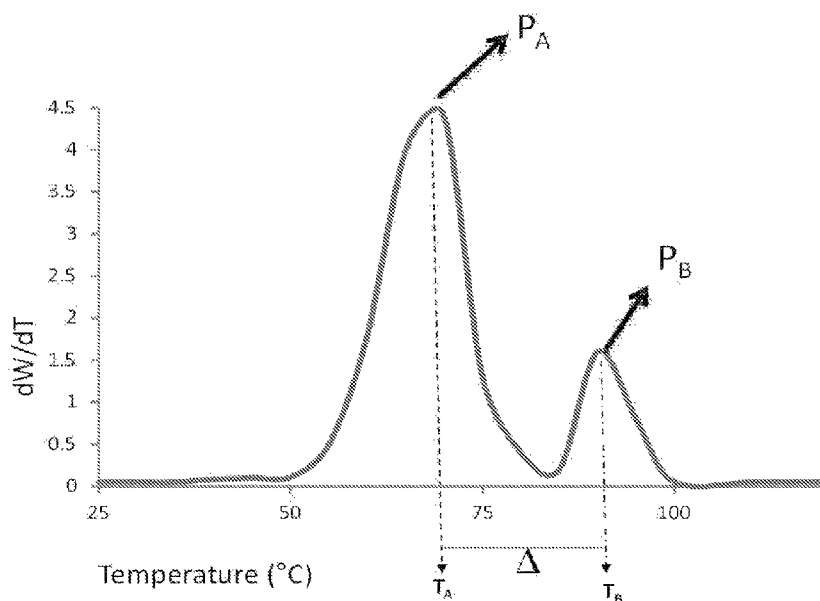
(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, 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))

(54) **Title:** POLYMER FILMS HAVING IMPROVED HEAT SEALING PROPERTIES



(57) **Abstract:** A polymer composition comprising an ethylene alpha-olefin copolymer, wherein the polymer composition is characterized as having (a) a density in the range of from greater than about 0.910 g/cc to about 0.930 g/cc, as determined according to ASTM D1505; (b) a melt index in the range of from greater than about 0.5 g/10 min to about 3 g/10 min, as determined by ASTM D1238, Condition 190 C/2.16 kg; (c) a molecular weight distribution of from about 3.4 to about 12, as determined by gel permeation chromatography (GPC); (d) a weight average molecular weight of from greater than about 85 kg/mol to about 160 kg/mol, as determined by gel permeation chromatography (GPC); and (e) a z-average molecular weight of from greater than about 210 kg/mol to about 500 kg/mol, as determined by gel permeation chromatography (GPC).