



(51) International Patent Classification:

C08F 10/10 (2006.01) *C08F 2/01* (2006.01)
C08L 23/22 (2006.01)

(21) International Application Number:

PCT/US2012/059473

(22) International Filing Date:

10 October 2012 (10.10.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/551,547 26 October 2011 (26.10.2011) US

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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, IS, JP, KE, KG, KM, 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, 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.

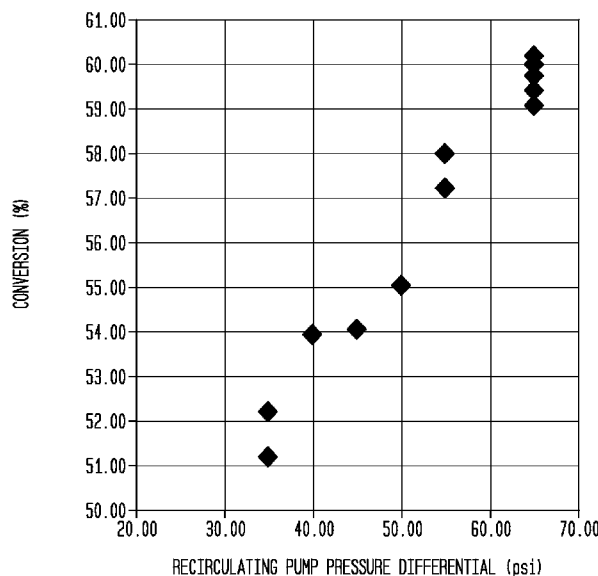
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, 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, ML, MR, NE, SN, TD, TG).

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(54) Title: MID-RANGE VINYLIDENE CONTENT, HIGH VISCOSITY POLYISOBUTYLENE POLYMERS

FIG. 1

CONVERSION AS A FUNCTION OF DELTA P (CIRCULATION RATE),
MID RANGE VINYLIDENE PIB; NOMINAL Mn of 3000



(57) Abstract: A mid-range vinylidene content, high viscosity PIB polymer composition including PIB molecules, wherein a first portion of the PIB molecules have alpha position double bonds and a second portion of the PIB molecules have beta position double bonds, and the first and second portions together include at least 80 mole % of the PIB molecules of the composition. The first portion includes less than 75 mole % of the PIB molecules of the composition. Additionally, no more than 10 mole % of the PIB molecules of the composition have tetra-substituted double bonds, while the composition is further characterized by having a polydispersity of no more than 2.7 and in that the composition has a kinematic viscosity in the range of 3000 cSt to 5000 cSt, a number average molecular weight, Mn, in the range of 2800 Daltons to 4000 Daltons and a ratio of Mn: PDI of greater than 1100.



Published:

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

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))