

(10) International Publication Number
WO 2012/170411 A2(43) International Publication Date
13 December 2012 (13.12.2012)

(51) International Patent Classification:

C08F 10/10 (2006.01) *C08L 23/22* (2006.01)
C08F 2/38 (2006.01) *C08K 5/13* (2006.01)

(30) Priority Data:

61/520,328 8 June 2011 (08.06.2011) US
 61/586,206 13 January 2012 (13.01.2012) US

(21) International Application Number:

PCT/US2012/040897

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(22) International Filing Date:

5 June 2012 (05.06.2012)

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(25) Filing Language:

English

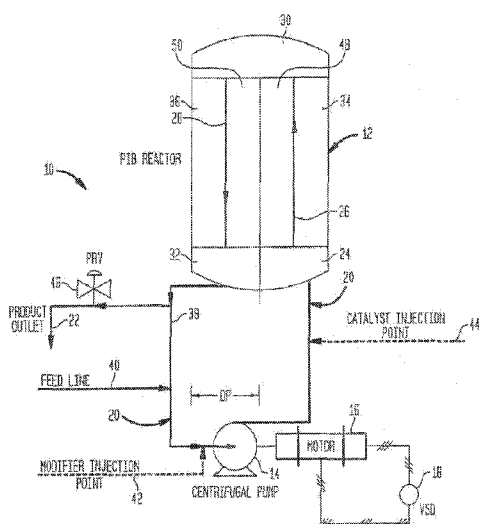
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(26) Publication Language:

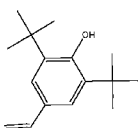
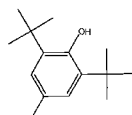
English

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(54) Title: PRODUCTION OF HIGHLY REACTIVE LOW MOLECULAR WEIGHT PIB OLIGOMERS



(57) Abstract: In one preferred embodiment, the present invention provides a process for the liquid phase polymerization of isobutylene to manufacture highly reactive PIB oligomers having Mn under 1000, using a catalyst composition comprising a Friedel-Crafts catalyst a complexing agent, a chain transfer agent and a polymerization-retarding agent. A chain transfer agent may be selected from: α -DIB and β -DIB and mixtures thereof. 2,4,4-trimethylpent-1-ene 2,4,4-trimethylpent-2-ene (α -DIB) (β -DIB) A polymerization-retarding agent may be selected from: 2,6-bis(1,1-dimethylethyl)-4-methylphenol (BHT or 2,6-di-*tert*-butyl-4-vinylphenol





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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, 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, 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).

Published:

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