



(51) International Patent Classification:

C07C 15/02 (2006.01) C07C 2/64 (2006.01)
C07C 15/107 (2006.01)

(21) International Application Number:

PCT/US2013/037687

(22) International Filing Date:

23 April 2013 (23.04.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/523,741 14 June 2012 (14.06.2012) 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).

Published:

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

(54) Title: METHODS FOR PRODUCING LINEAR ALKYL BENZENES FROM BIO-RENEWABLE FEEDSTOCKS

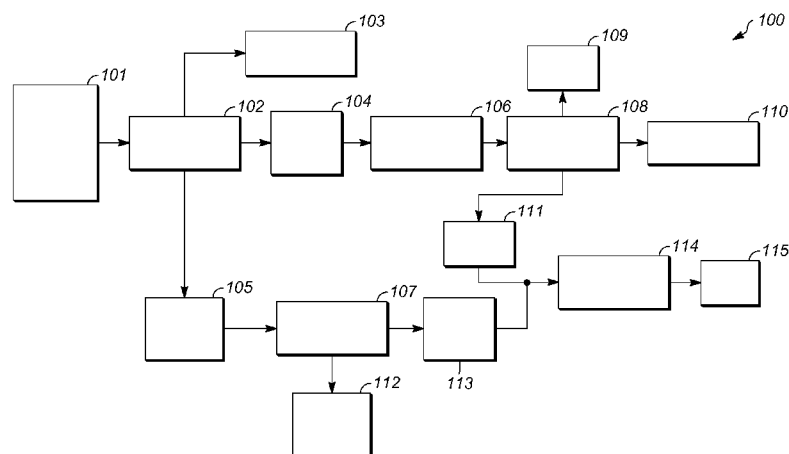


FIG. 1

(57) Abstract: A method for producing a linear alkylbenzene product from a bio-renewable feedstock having a mixture of naturally-derived hydrocarbons includes separating the mixture of naturally-derived hydrocarbons into a naphtha portion and a distillate portion, reforming the naphtha portion, and using a high purity aromatics recovery process on the reformed naphtha portion to produce benzene. The method further includes separating a normal paraffins portion from the distillate portion and dehydrogenating the normal paraffins portion to produce mono-olefins. Still further, the method includes reacting the benzene and the mono-olefins to produce the linear alkylbenzene product.