

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

(51) International Patent Classification:

C10G 29/20 (2006.01) C10G 69/12 (2006.01)
C10G 45/02 (2006.01)

(21) International Application Number:

PCT/US2013/071273

(22) International Filing Date:

21 November 2013 (21.11.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/829,620 14 March 2013 (14.03.2013) 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, 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).

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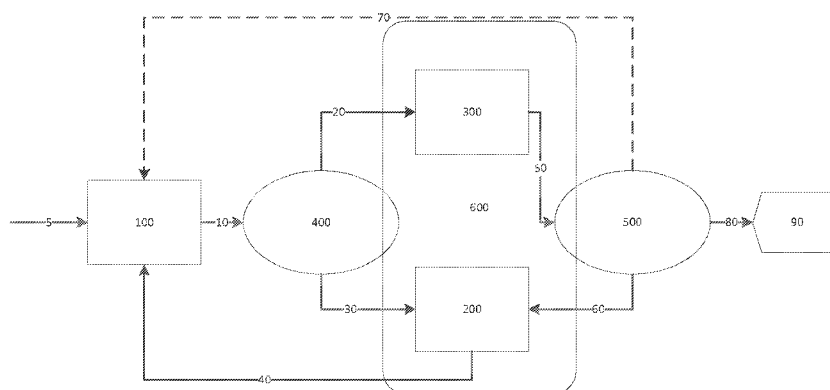
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))
- with amended claims (Art. 19(1))

(54) Title: INTEGRATION OF HYDRO-DECHLORINATION AND HYDRO-REGENERATION

FIGURE 1



(57) Abstract: We provide an integrated process to produce alkylate gasoline, comprising: a. alkylating a mixture of hydrocarbons using a chloride-containing ionic liquid catalyst in an alkylation reactor to produce an alkylate gasoline comprising a chloride contaminant; b. hydro-regenerating the chloride-containing ionic liquid catalyst in a hydrogenation reactor; c. hydro-dechlorinating the alkylate gasoline comprising the chloride contaminant in a dechlorination reactor at a dechlorination pressure from 0 to 6895 kPa (0 to 1000 psig) of a hydrogenation pressure used in the hydrogenation reactor, to produce a dechlorinated alkylate gasoline; and d. feeding an off-gas, comprising 70 to 99.9 vol% hydrogen, from the dechlorination reactor to the hydrogenation reactor. We also provide an integrated alkylation process unit for conducting this process.

