

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 June 2009 (25.06.2009)

PCT

(10) International Publication Number
WO 2009/079107 A1

(51) International Patent Classification:
C07C 2/56 (2006.01)

(74) Agents: ABERNATHY, Susan M. et al.; Chevron Corporation, Law Department, Post Office Box 6006, San Ramon, California 94583-0806 (US).

(21) International Application Number:
PCT/US2008/082347

(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, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(22) International Filing Date:
4 November 2008 (04.11.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/960,506 19 December 2007 (19.12.2007) US

(71) Applicant (for all designated States except US):
CHEVRON U.S.A. INC. [US/US]; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DRIVER, Michael S. [US/US]; 555 4th St., Apt. 412, San Francisco, California 94107 (US). LACHEEN, Howard S. [US/US]; 31 Idaho Street, Richmond, California 94801 (US). HOSSEINI, Mitra A. [US/US]; 7760 Canterbury Lane, Dublin, California 94568 (US).

Published:
— with international search report

(54) Title: REDUCTION OF ORGANIC HALIDE CONTAMINATION IN HYDROCARBON PRODUCTS

(57) Abstract: A method for reducing halide concentration in a hydrocarbon product having an organic halide content from 50 to 4000 ppm which is made by a hydrocarbon conversion process using an ionic liquid catalyst comprising a halogen-containing acidic ionic liquid comprising contacting at least a portion of the hydrocarbon product with at least one molecular sieve having pore size from 4 to 16 Angstrom under organic halide absorption conditions to reduce the halogen concentration in the hydrocarbon product to less than 40 ppm is disclosed.



WO 2009/079107 A1