

(43) International Publication Date
8 July 2010 (08.07.2010)

PCT

(10) International Publication Number
WO 2010/077476 A3

(51) International Patent Classification:

C10L 1/08 (2006.01) **B01D 53/48** (2006.01)
C10G 67/00 (2006.01) **B01D 3/00** (2006.01)
C10G 47/02 (2006.01)

(21) International Application Number:

PCT/US2009/065232

(22) International Filing Date:

20 November 2009 (20.11.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/138,147 17 December 2008 (17.12.2008) US

(71) Applicant (for all designated States except US): **UOP LLC** [US/US]; 25 East Algonquin Road, P.O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MARKER, Terry, L.** [US/US]; 39 Country Squire Rd., Palos Heights, Illinois 60463 (US). **LUEBKE, Charles, P.** [US/US]; UOP LLC, 25 East Algonquin Road, P.O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

(74) Common Representative: **UOP LLC**; 25 East Algonquin Road, P.O. Box 5017, Des Plaines, Illinois 60017-5017 (US).

(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, 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.

(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, MK, MT, NL, NO, PL, PT, RO, 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))
- 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))

(88) Date of publication of the international search report:

14 October 2010

(54) Title: CONTROLLING COLD FLOW PROPERTIES OF TRANSPORTATION FUELS FROM RENEWABLE FEEDSTOCKS

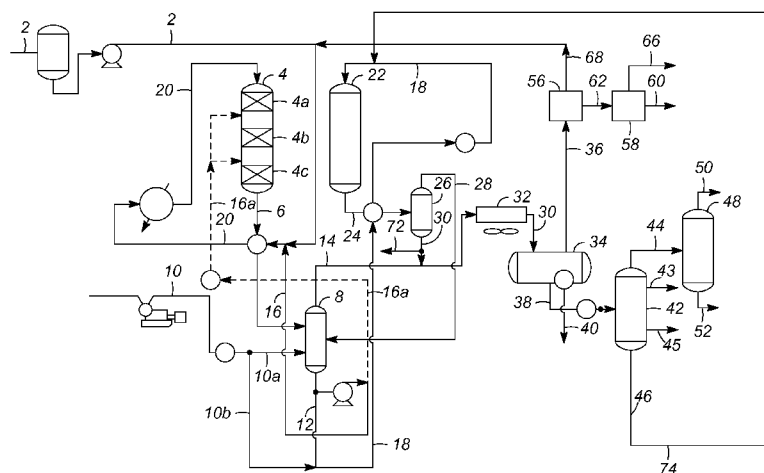


FIG. 1

(57) Abstract: A process for improving cold flow properties of diesel range hydrocarbons produced from renewable feedstocks such as plant oils and animal oils. A renewable feedstock is treated by hydrogenating and deoxygenating to provide an effluent comprising paraffins followed by isomerizing and selectively hydrocracking at least a portion of the paraffins to generate a diesel range hydrocarbon product. A portion of the diesel range hydrocarbon product is selectively separated and recycled to the isomerization and selective hydrocracking zone.