

(43) International Publication Date
26 September 2013 (26.09.2013)

(51) International Patent Classification:

C10L 1/02 (2006.01) *C10G 69/02* (2006.01)
C10G 3/00 (2006.01)

(21) International Application Number:

PCT/US2013/025666

(22) International Filing Date:

12 February 2013 (12.02.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13/427,718 22 March 2012 (22.03.2012) US

(71) Applicant: UOP LLC [US/US]; 25 East Algonquin Road,
P. O. Box 5017, Des Plaines, Illinois 60017-5017 (US).(72) Inventors: **BOZZANO, Andrea G.**; UOP LLC, 25 East
Algonquin Road, P. O. Box 5017, Des Plaines, Illinois
60017-5017 (US). **SOHN, Stephen W.**; UOP LLC, 25
East Algonquin Road, P. O. Box 5017, Des Plaines,
Illinois 60017-5017 (US).(74) Agent: **PIASECKI, David J.**; UOP LLC, 25 East Algon-
quin 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, 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, PARAFFINS, AND OLEFINS FROM NATURAL OILS AND KEROSENE

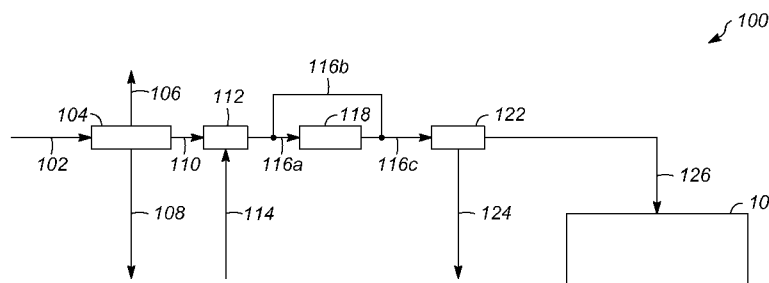


FIG. 1

(57) Abstract: A method for producing a linear paraffin product from natural oil and kerosene includes providing a first feed stream comprising kerosene, pre-fractionating the first feed stream to produce a heart cut paraffin stream comprising paraffins in a heart cut range, and combining the heart cut paraffin stream with a second feed stream comprising natural oil to form a combined stream. The method further includes deoxygenating the natural oil and fractionating the combined stream to remove paraffins that are heavier than the heart cut range.