

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 September 2004 (16.09.2004)

PCT

(10) International Publication Number  
**WO 2004/078882 A1**

- (51) International Patent Classification<sup>7</sup>: **C10G 11/05**, 11/14, 35/095, 35/10
- (21) International Application Number: PCT/US2004/004267
- (22) International Filing Date: 13 February 2004 (13.02.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/451,184 28 February 2003 (28.02.2003) US
- (71) Applicant (for all designated States except US): **EXXON-MOBIL RESEARCH AND ENGINEERING COMPANY** [US/US]; 1545 Route 22 East, P.O. Box 900, Annandale, NJ 08801-0900 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **CHEN, Tan-Jen** [US/US]; 5615 Lofty Magnolia Court, Kingwood, TX 77345 (US). **HENRY, Brian, Erik** [US/US]; 301 Longmeadow Drive, Baton Rouge, LA 70810 (US). **KEUSENKOTHEN, Paul, F.** [US/US]; 408 Hawthorne, Houston, TX 77006 (US). **RUZISKA, Philip, A.** [US/US]; 2020 Wind Creek Drive, Kingwood, TX 77345 (US).
- (74) Agents: **HUGHES, Gerard, J.** et al.; ExxonMobil Research and Engineering Company, 1545 Route 22 East, P.O. Box 900, Annandale, NJ 08801-0900 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, 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, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FRACTIONATING AND FURTHER CRACKING A C<sub>6</sub> FRACTION FROM A NAPHTHA FEED FOR PROPYLENE GENERATION

(57) Abstract: The present invention relates to a process for selectively producing C<sub>3</sub> olefins from a catalytically cracked or thermally cracked naphtha stream by injecting a C<sub>6</sub> rich fraction separated from the naphtha-boiling-range feedstream and/or the product stream into the cracking stage at a place downstream from the feed.

WO 2004/078882 A1