

01/12/03

200 3070547

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
27 December 2002 (27.12.2002)

PCT

(10) International Publication Number
WO 02/102940 A1(51) International Patent Classification⁷: **C10G 67/10**,
19/02, 19/04, 19/08Houston, TX 77262-5055 (US). **TURNER, Verlin, Keith**;
9907 Green Meadow Drive, LaPorte, TX 77571 (US).

(21) International Application Number: PCT/US02/18901

(74) Agents: **HUGHES, Gerard, J.** et al.; ExxonMobil Re-
search and Engineering Company, 1545 Route 22 East, P.O.
Box 900, Annandale, NJ 08801-0900 (US).

(22) International Filing Date: 14 June 2002 (14.06.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/299,329	19 June 2001 (19.06.2001)	US
60/299,330	19 June 2001 (19.06.2001)	US
60/299,331	19 June 2001 (19.06.2001)	US
60/299,346	19 June 2001 (19.06.2001)	US
60/299,347	19 June 2001 (19.06.2001)	US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, 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, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZM, ZW.(71) Applicants: **EXXONMOBIL RESEARCH AND EN-
GINEERING COMPANY** [US/US]; 1545 Route 22
East, P.O. Box 900, Annandale, NJ 08801-0900 (US).
MERICHEM COMPANY [US/US]; 5455 Old Spanish
Trail, Houston, TX 77023 (US).(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).(72) Inventors: **GREANEY, Mark, A.**; 1265 River Road,
Upper Black Eddy, PA 18972 (US). **LE, Binh, N.**;
7307 Foxmont Drive, Humble, TX 77015 (US). **LETA,**
Daniel, P.; 15 Rustic Trail, Flemington, NJ 08822 (US).
BEGASSE, John, N.; 30 Amelia Avenue, Livingston,
NJ 07039 (US). **HUANG, Charles, T.**; P.O. Box 5055,

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

162162



ACTION

WO 02/102940 A1

(54) Title: NAPHTHA DESULFURIZATION METHOD

(57) Abstract: The invention relates to a method for desulfurizing naphtha boiling-range hydrocarbons such as cracked naphtha. More particularly, the invention relates to hydrotreating the naphtha under selective hydrotreating conditions, and then removing mercaptans from the hydrotreater effluent using a caustic extractant.