

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/033930 A2

(51) International Patent Classification⁷: **G06F 9/40**

(NL). BREVOORD, Eelko [NL/NL]; Doornikslaan 23, NL-3871 RR Hoevelaken (NL).

(21) International Application Number:
PCT/US2004/031808

(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).

(22) International Filing Date:
28 September 2004 (28.09.2004)

(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.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/677,687 2 October 2003 (02.10.2003) US
60/508,197 2 October 2003 (02.10.2003) 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).

(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, HU, IE, IT, LU, MC, NL, 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

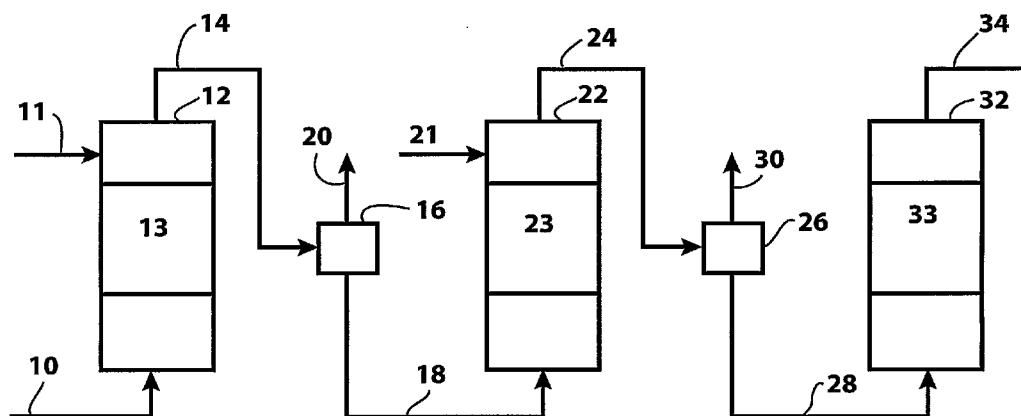
(75) Inventors/Applicants (for US only): RILEY, Kenneth, L. [US/US]; 1289 Rodney Drive, Baton Rouge, LA 70816 (US). SOLED, Stuart, L. [US/US]; 21 Cooks Cross Road, Pittstown, NJ 08867 (US). MISEO, Sabato [US/US]; 770 County Road 579, Pittstown, NJ 08867 (US). PLANTENGA, Frans, L. [NL/NL]; Reenspoor 20, NL-3871 JP Hoevelaken (NL). CER-FONTAIN, Marinus, Bruce [NL/NL]; S. Louisweg 99, NL-1034 WR Amsterdam (NL). ELJSBOUTS, Sonja [NL/NL]; Goudenregenstraat 1, NL-5253 BE Nieuwkuijk

Published:

— without international search report and to be republished upon receipt of that 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: PROCESS FOR UPGRADING NAPHTHA



(57) Abstract: A method for upgrading a naphtha feed to a naphtha product containing less than 10 wppm of nitrogen and less than 15 wppm sulfur, the method comprising contacting said naphtha feed with hydrogen in the presence of a bulk multimetallic catalyst under effective reactor conditions to hydrodesulfurize and hydrodenitrogenize said naphtha feed to produce said naphtha product, wherein said bulk multimetallic catalyst comprises at least one Group VIII non-noble metal and at least two Group VIB metals.

WO 2005/033930 A2