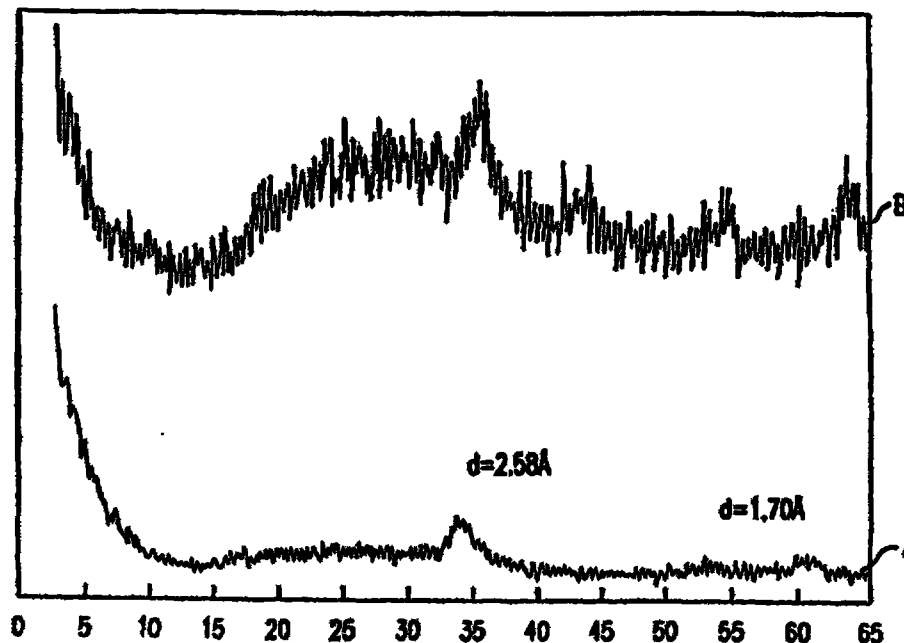




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(21) International Application Number: PCT/US00/00994 (22) International Filing Date: 14 January 2000 (14.01.00) (30) Priority Data: 09/231,156 15 January 1999 (15.01.99) US (71) Applicant (for all designated States except US): EXXON-MOBIL RESEARCH AND ENGINEERING COMPANY [US/US]; 180 Park Avenue, P.O. Box 390, Florham Park, NJ 07932-0390 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): HOU, Zhiguo [US/US]; 2028 Oakdale Drive, Baton Rouge, LA 70810 (US). BEARDEN, Roby, Jr. [US/US]; 505 Stanford Avenue, Baton Rouge, LA 70808 (US). FERRUGHELLI, David, Thomas [US/US]; 10 Hardy Drive, Flemington, NJ 08822 (US). MISEO, Sabato [US/US]; 770 County Road #579, Pittstown, NJ 08867 (US). GORBATY, Martin, Leo [US/US]; 204 Twin Oaks Terrace, Westfield, NJ 07090 (US). SOLED, Stuart, Leon [US/US]; 21 Cooks Cross Road, Pittstown, NJ 08867 (US).		(74) Agents: OTT, Roy, J. et al.; ExxonMobil Research and Engineering Company, P.O. Box 390, Florham Park, NJ 07932-0390 (US). (81) Designated States: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: **SLURRY HYDROPROCESSING USING BULK MULTIMETALLIC CATALYSTS**



(57) Abstract

A slurry hydroprocessing process for upgrading a hydrocarbon feedstock containing nitrogen and sulfur using bulk multimetallic catalyst comprised of at least one Group VIII non-noble metal and at least two Group VIB metals wherein the ratio of Group VIB metal to Group VIII metal is about 10:1 to about 1:10.