



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C10G 2/00, 45/60, C07C 1/04	A1	(11) International Publication Number: WO 00/00571 (43) International Publication Date: 6 January 2000 (06.01.00)
(21) International Application Number: PCT/US99/11873 (22) International Filing Date: 28 May 1999 (28.05.99) (30) Priority Data: 09/108,102 30 June 1998 (30.06.98) US (71) Applicant: EXXON RESEARCH AND ENGINEERING COMPANY [US/US]; 180 Park Avenue, P.O. Box 390, Florham Park, NJ 07932-0390 (US). (72) Inventors: WITTENBRINK, Robert, Jay; 836 Shadyglen Drive, Baton Rouge, LA 70816 (US). COOK, Bruce, Randall; 2 Capoolong Creek Road, Pittstown, NJ 08867 (US). BERLOWITZ, Paul, Joseph; 939 Jamestown Road, East Windsor, NJ 08520 (US). (74) Agents: SIMON, Jay et al.; Exxon Research and Engineering Company, P.O. Box 390, Florham Park, NJ 07932-0390 (US).		(81) Designated States: BR, CA, JP, NO, SG, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.
(54) Title: AN INTEGRATED PROCESS FOR CONVERTING NATURAL GAS AND GAS FIELD CONDENSATE INTO HIGH VALUED LIQUID PRODUCTS <pre> graph LR 1{{1}} -- 2 --> 4[4] 4 --> 5[5] 5 --> 6[6] 6 --> 7{{7}} 1 -- 3 -.-> 7 8[8] --- 1 </pre>		
(57) Abstract The instant invention is directed to an integrated process for producing a hydroisomerate in the presence of sulfur comprising the steps of (a) separating a natural gas into a first stream comprising a C ₅ + gas field condensate containing sulfur and a second stream comprising said natural gas having said a C ₅ + gas field condensate removed therefrom; (b) removing sulfur from said second stream; (c) subjecting said second stream to a synthesis gas generation process to produce synthesis gas; (d) subjecting said synthesis gas to a hydrocarbon synthesis process to produce hydrocarbons; (e) hydrotreating and hydroisomerizing said hydrocarbons of step; (d) in the presence of said first stream over a catalyst having an acidic functionality and comprising a Group VIII non-noble metal or tungsten and a hydrocracking suppressant, wherein said hydrocracking suppressant is selected from the group consisting of Group IB metal, sulfur and mixtures thereof, and wherein when said hydrocracking suppressant is sulfur, said acidic functionality is an amorphous refractory oxide.		