

9801736-8

1708 copy

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C10G 29/20, 29/22	A1	(11) International Publication Number: WO 98/30655 (43) International Publication Date: 16 July 1998 (16.07.98)
(21) International Application Number: PCT/US98/00762 (22) International Filing Date: 9 January 1998 (09.01.98) (30) Priority Data: 08/783,221 14 January 1997 (14.01.97) US (71) Applicant: AMOCO CORPORATION [US/US]; Law Dept., Mail Code 1907A, 200 E. Randolph Drive, P.O. Box 87703, Chicago, IL 60680-0703 (US). (72) Inventors: HUFF, George, A., Jr.; 823 Morven Court, Naperville, IL 60563 (US). ALEXANDER, Bruce, D.; 156 E. Sunset, Lombard, IL 60148 (US). RUNDELL, Douglas, N.; 311 Cottage Avenue, Glen Ellyn, IL 60137 (US). REAGAN, William, J.; 886 Appomattox Circle, Naperville, IL 60540 (US). OWEN, Ozie, S.; 90 St. Croix Court, Aurora, IL 60504 (US). YOO, Jin, S.; 2315 Mast Court, Flossmoor, IL 60422 (US). (74) Agent: AMOCO CORPORATION; Law Dept., Mail Code 1907A, P.O. Box 87703, Chicago, IL 60680-0703 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(54) Title: SULFUR REMOVAL PROCESS (57) Abstract A product of reduced sulfur content is produced from a feedstock which is comprised of a mixture of hydrocarbons and contains organic sulfur compounds as unwanted impurities. The process comprises converting at least a portion of the sulfur-containing impurities to sulfur-containing products of higher boiling point by treatment with an alkylating agent in the presence of an acid catalyst and removing at least a portion of these higher boiling products by fractional distillation. Suitable alkylating agents include alcohols and olefins. In a preferred embodiment, catalytic cracking products which contain aromatic sulfur compounds as impurities are used as a feedstock for the process.		