



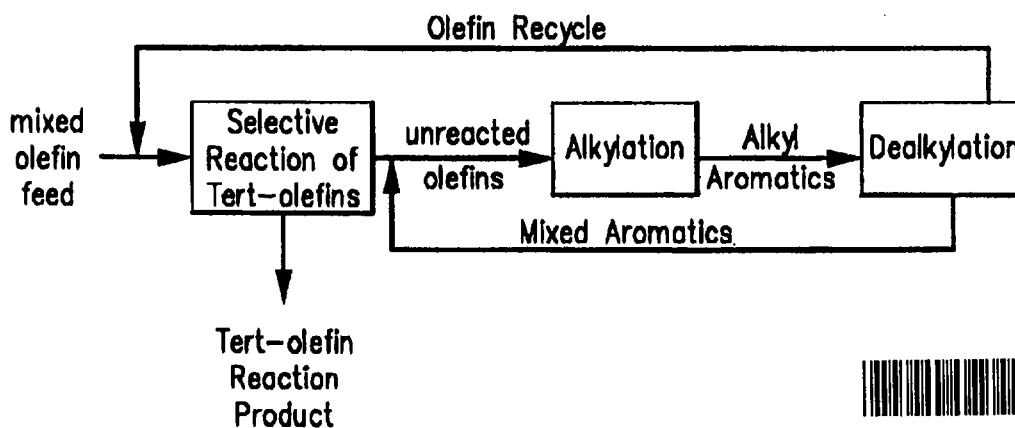
BCS

(11)

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07C 1/00, 2/66, 4/14, 5/22		A1	(11) International Publication Number: WO 98/56738
			(43) International Publication Date: 17 December 1998 (17.12.98)
(21) International Application Number: PCT/US98/11115 (22) International Filing Date: 2 June 1998 (02.06.98) (30) Priority Data: 08/872,003 9 June 1997 (09.06.97) US (71) Applicant: CATALYTIC DISTILLATION TECHNOLOGIES [US/US]; 10100 Bay Area Boulevard, Pasadena, TX 77507 (US). (72) Inventors: RYU, J., Yong; 10100 Bay Area Boulevard, Pasadena, TX 77507 (US). GROTEN, Willibrord, A.; 10100 Bay Area Boulevard, Pasadena, TX 77507 (US). (74) Agent: JOHNSON, Kenneth, H.; P.O. Box 630708, Houston, TX 77263 (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, 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, ML, MR, NE, SN, TD, TG). Published With international search report.	

(54) Title: OLEFIN SKELETAL ISOMERIZATION PROCESS



162162



G00002

(57) Abstract

An isomerization process for C₄ to C₁₅ olefins carried out by the reaction of C₄ to C₁₅ olefins, having a first skeletal distribution, with aromatic compounds under alkylation conditions to produce an alkylated aromatic product, dealkylation of the alkylated aromatic product under dealkylation conditions to produce a dealkylated product comprising said aromatic compounds and olefins corresponding to the olefins in the alkylation and having a second skeletal distribution different than said first skeletal distribution. Acidic catalysts such as molecular sieves are used in both alkylation and dealkylation. The reactions may be carried out in either straight pass fixed beds or in catalytic distillation reactors.