



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07C 11/02, 7/152	A1	(11) International Publication Number: WO 99/29641 (43) International Publication Date: 17 June 1999 (17.06.99)
(21) International Application Number: PCT/EP98/08132 (22) International Filing Date: 8 December 1998 (08.12.98) (30) Priority Data: 08/987,554 9 December 1997 (09.12.97) US (71) Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL). (72) Inventors: FENOUIL, Laurent, Alain; 3805 West Alabama No. 4308, Houston, TX 77027 (US). FONG, Howard, Lam-Ho; 1707 Creekside Drive, Sugar Land, TX 77478 (US). SLAUGH, Lynn, Henry; 11911 Cypresswood Drive, Houston, TX 77070 (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, GD, GE, GH, GM, HR, HU, ID, IL, IN, 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, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: PROCESS FOR SEPARATING LINEAR INTERNAL OLEFINS FROM BRANCHED INTERNAL OLEFINS (57) Abstract A process for separating linear internal olefins from branched internal olefins. There is provided a process for converting a feedstock of linear internal olefins and branched internal olefins to a primarily linear internal olefin composition having a lower concentration of branched internal olefins than present in the feedstock, by: a) contacting the feedstock with a linear polyaromatic, optionally substituted, compound under conditions effective to form a linear polyaromatic compound-linear internal olefin adduct; b) separating the linear polyaromatic compound-linear internal olefin adduct from the reaction mixture; c) dissociating the linear polyaromatic compound-linear internal olefin adduct to form linear polyaromatic compound and a linear internal olefin composition; and optionally d) separating the linear polyaromatic compound formed in step c) from a linear internal olefin composition.		