



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07C 2/66, 5/367, 5/41, 15/24	A1	(11) International Publication Number: WO 99/47476 (43) International Publication Date: 23 September 1999 (23.09.99)
(21) International Application Number: PCT/US99/05693 (22) International Filing Date: 16 March 1999 (16.03.99) (30) Priority Data: 60/078,222 16 March 1998 (16.03.98) US 09/086,295 28 May 1998 (28.05.98) US (71) Applicant: CHEVRON CHEMICAL COMPANY LLC [US/US]; 555 Market Street, San Francisco, CA 94105 (US). (72) Inventors: CHEN, Cong-Yan; 176 Schooner Court, Richmond, CA 94804 (US). SCHINSKI, William, L.; 2818 Las Gallinas Avenue, San Rafael, CA 94903 (US). O'REAR, Dennis, J.; 40 Upland Drive, Petaluma, CA 94952 (US). HARRIS, Thomas, V.; 183 West Seaview Drive, Benecia, CA 94510 (US). (74) Agents: HADLOCK, Timothy, J. et al.; Chevron Corporation, Law Dept., P.O. Box 7141, San Francisco, CA 94120-7141 (US).		(81) Designated States: AE, 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, SL, 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>
(54) Title: METHOD OF MAKING DIMETHYLNAPHTALENES (57) Abstract The method of the invention includes making dimethylnaphthalenes by first contacting, in an alkylation zone, at alkylation conditions, a toluene-containing stream with a pentene-containing stream in the presence of an acid alkylation catalyst. At least a portion of the toluene and pentenes react to form pentyltoluenes. At least a portion of the pentyltoluenes is then contacting in a reforming zone with reforming catalyst, at reforming conditions. At least a portion of the pentyltoluenes is converted to dimethylnaphthalenes.		