



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷: B01J 29/61, C10G 35/095, C07C 5/41	A1	(11) International Publication Number: WO 00/09263 (43) International Publication Date: 24 February 2000 (24.02.00)
(21) International Application Number: PCT/JP99/04298 (22) International Filing Date: 9 August 1999 (09.08.99) (30) Priority Data: 09/134,164 14 August 1998 (14.08.98) US (71) Applicants: IDEMITSU KOSAN CO., LTD. [JP/IP]; 1-1, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-0005 (JP). CHEVRON CHEMICAL COMPANY LLC [US/US]; 555 Market Street, San Francisco, CA 94105 (US). (72) Inventors: FUKUNAGA, Tetsuya; 1280, Kamiizumi, Sodegaura-shi, Chiba-ken 299-0205 (JP). SUGIMOTO, Michio; 1280, Kamiizumi, Sodegaura-shi, Chiba-ken 299-0205 (JP). INNES, Robert, A.; Chevron Chemical Company, Richmond Technology Center, 100 Chevron Way Richmond, CA 94802-0627 (US). (74) Agent: OHTANI, Tamotsu; Tomoe-cho Annex-II, 4F, 8-27, Toranomon 3-chome, Minato-ku, Tokyo 105-0001 (JP).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, 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, ZA, 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: L-TYPE ZEOLITE CATALYST COMPRISING PLATINUM, HALOGEN AND GROUP IB METAL		
(57) Abstract There are herein disclosed an L-type zeolite catalyst which is obtainable by supporting a platinum component, one or more halogen components and one or more metal components selected from the group Ib of the periodic table on an L-type zeolite, the support amount of one or more metal components selected from the group Ib being in the range of 0.001 to 3 % by weight based on the total weight of the catalyst in terms of the metal, a molar ratio of one or more metal components selected from the group Ib/platinum being in the range of 0.01 to 1; and a method for producing aromatic hydrocarbons or a gasoline having a high octane number which comprises the step of bringing one or more fractions selected from a C6 fraction, a C7 fraction and a C8+ fraction into contact with this catalyst. According to the present invention, there are provided a catalyst containing an L-type zeolite as a carrier which is desirable as a catalyst for the production of aromatic hydrocarbons or a gasoline having a high octane number and which can inhibit a cracking activity and the formation of coke and can improve an aromatic selectivity and a liquid yield.		