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(21) International Application Number: PCT/US97/15684 (22) International Filing Date: 5 September 1997 (05.09.97) (30) Priority Data: 60/025,571 6 September 1996 (06.09.96) US (71) Applicant: EXXON CHEMICAL PATENTS INC. [US/US]; 5200 Bayway Drive, Baytown, TX 77520-5200 (US). (72) Inventors: HENDRIKSEN, Dan, E.; 3206 Brook Grove Drive, Kingwood, TX 77345 (US). LATTNER, James, R.; 4147 Crownwood, Seabrook, TX 77586 (US). JANSSEN, Mechilium, J., G.; Broekstraat 102, B-3010 Leuven (BE). (74) Agents: ZBORAY, James, A.; Exxon Chemical Company, P.O. Box 2149, Baytown, TX 77522-2149 (US) et al.		(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, 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, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, 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 <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: ALKYLATION PROCESS USING ZEOLITE BETA (57) Abstract A process for the alkylation of an aromatic compound with C ₂ to C ₄ olefin alkylating agent. A process to produce ethylbenzene by reaction of ethylene in stoichiometric or excess amount with benzene in the presence of a zeolite beta catalyst. This process is especially suitable for reaction of dilute ethylene with dilute benzene in a catalytic distillation column.		