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(21) International Application Number: PCT/US97/02822 (22) International Filing Date: 25 February 1997 (25.02.97) (30) Priority Data: 08/621,451 25 March 1996 (25.03.96) US (71) Applicant: CHEMICAL RESEARCH & LICENSING COMPANY [US/US]; 10100 Bay Area Boulevard, Pasadena, TX 77507 (US). (72) Inventors: NEMPLOS, Speros, Peter; 10100 Bay Area Boulevard, Pasadena, TX 77507 (US). HEARN, Dennis; 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, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, 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, ARIPO patent (KE, LS, MW, SD, SZ, UG), 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>With international search report.</i>
(54) Title: AMINATION PROCESS (57) Abstract A process for the amination of aliphatic alkane derivatives such as alcohols (mono and polyhydric) which uses catalytic distillation to take advantage of the condensing distillate within the distillation reaction zone in the distillation column reactor. The operation of the distillation column reactor results in both a liquid and vapor phase within the distillation reaction zone. The catalyst is prepared in the form of a distillation structure. The reaction is carried out in a distillation column reactor at a low hydrogen partial pressure, e.g. in the range of 0.1 psia to less than 10 psia.		