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(21) International Application Number: PCT/US98/23083 (22) International Filing Date: 30 October 1998 (30.10.98) (71) Applicant: CATALYTIC DISTILLATION TECHNOLOGIES [US/US]; 10100 Bay Area Boulevard, Pasadena, TX 77507 (US). (72) Inventors: BEZUIDENHOUT, Barend, Christiaan, Buurman; 35 Ruben Street, Sasolburg (ZA). DENGGA, Zamide; 20 Van den Bos Avenue, Edendale, Johannesburg (ZA). STEYN, Rian; Plot 392, Section 3, Havert Street, Bredel, Kempton Park (ZA). STEYNBERG, Petrus, Johannes; Kollege Park E2, Harrismith Street, Sasolburg (ZA). STARK, Nicolaus, Ladislaus; 8 Haakbos Street SE 3, Vanderbijlpark (ZA). (74) Agent: JOHNSON, Kenneth, H.; P.O. Box 630708, Houston, TX 77263 (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, GE, GH, GM, HR, 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, 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>
(54) Title: PRODUCTION OF AMIDES AND/OR ACIDS FROM NITRILES (57) Abstract A process for producing an amide and/or acid from a nitrile comprises introducing a nitrile, as a first reactant, and a hydration compound, as a second reactant which is capable of reacting with the nitrile to convert it to its corresponding amide thus hydrating the nitrile and/or to convert it to its corresponding acid, into a treatment zone. The nitrile is subjected to catalytic distillation in the treatment zone in the presence of the hydration compound, to hydrate at least some of the nitrile to the corresponding amide and/or to form its corresponding acid. The amide and/or acid is withdrawn from the treatment zone.		