



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C07D 307/02	A1	(11) International Publication Number: WO 00/14081 (43) International Publication Date: 16 March 2000 (16.03.00)
(21) International Application Number: PCT/US99/00537 (22) International Filing Date: 11 January 1999 (11.01.99) (30) Priority Data: 198 41 032.8 9 September 1998 (09.09.98) DE (71) Applicant (for all designated States except US): E.I. DU PONT DE NEMOURS AND COMPANY [US/US], 1007 Market Street, Wilmington, DE 19898 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BRINEGAR, Willard, C. [US/US]; 62 Molly's Point Road, Southport, ME 04576 (US). WOHLERS, Michael [DE/DE]; An der Grüngesweide 1, D-65760 Eschborn (DE). HUBBARD, Michael, A. [US/US]; 25 Oswestry Way, Somerset, NJ 08873 (US). ZEY, Edward, G. [US/US]; 522 Evergreen Drive, Corpus Christi, TX 78413 (US). KVAKOVSKY, George [US/US]; 3068 Meadow Lake Drive East, Slidell, LA 70461 (US). SHOCKLEY, Thomas, H. [US/US]; 4606 Champions Drive, Corpus Christi, TX 78413 (US). ROESKY, Rainer [DE/FR]; 10, rue des Cerisiers, F-38070 Saint Quentin Fallavier Cedex 16 (FR). DINGERDISSEN, Uwe [DE/DE]; Linnéweg 1, D-64342 Seeheim-Jugenheim (DE). KIND, Werner [DE/DE]; Zum Bach 5, D-65779 Kelkheim		(DE). KOHLE, Norbert [DE/DE], Erich-Bauer-Strasse 10, D-65439 Flörsheim (DE). RIETH, Jochen [DE/DE], Taunusstrasse 11, D-65618 Selters (DE). THOMZIGK, Manfred [DE/DE], Bielefelder Strasse 6, D-65931 Frankfurt (DE). (74) Agents: DUFFETT, Benton, S., Jr. et al.; Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (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, 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, US, 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: CONTINUOUS PROCESS FOR THE PRODUCTION OF ANHYDROSUGAR ALCOHOLS		
(57) Abstract A process is described for continuous production of anhydrosugar alcohols by continuous introducing of sugar alcohols and/or monoanhydrosugar alcohols into a reaction vessel and dehydration in the presence of an acid catalyst and solvent, preferably an organic solvent, in which the resultant reaction products are soluble. Water and the organic solvent having the dissolved reaction product are each continuously removed from the reaction chamber. The reaction product is separated from the removed solvent, which is recycled into the reaction vessel. The reaction product is optionally purified by distillation and/or recrystallization. The purified reaction product obtained is particularly suitable as a starting product for producing polymers, and has a purity of at least 99.0 %.		