

(43) International Publication Date
24 September 2009 (24.09.2009)

PCT

(10) International Publication Number
WO 2009/117317 A1

(51) International Patent Classification:

B01D 11/04 (2006.01) **C07H 1/06** (2006.01)
C07C 231/24 (2006.01) **C07C 233/03** (2006.01)

(21) International Application Number:

PCT/US2009/037079

(22) International Filing Date:

13 March 2009 (13.03.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/070,070 20 March 2008 (20.03.2008) US

(71) **Applicant** (for all designated States except US): **TATE & LYLE TECHNOLOGY LTD** [GB/GB]; Sugar Quay, Lower Thames Street, London EC3R 6DQ (GB).

(72) **Inventors; and**

(75) **Inventors/Applicants** (for US only): **KERR, John** [GB/GB]; 53 Croham Manor Road, South Croydon, Surrey CR2 7BJ (GB). **JANSEN, Robert** [US/PT]; Avenida das Escolas, Lote 195, 11A, P-2685-202 Portela LRS (PT). **ISAAC, Christian, J.** [GB/US]; 215 Avenue O, Apt. 6WA, Fort Dodge, IA 50501 (US). **WILEY, James, Edwin** [US/US]; 30298 Scotch Pine Court, Daphne, AL 36527 (US). **LEINHOS, Duane, A.** [US/US]; 6004 Cordova Avenue, Satsuma, AL 36572 (US).

(74) **Agents:** **PRESTIA, Paul, F.** et al.; Ratnerprestia, P.O. Box 980, Valley Forge, PA 19482 (US).

(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: REMOVAL OF ACIDS FROM TERTIARY AMIDE SOLVENTS

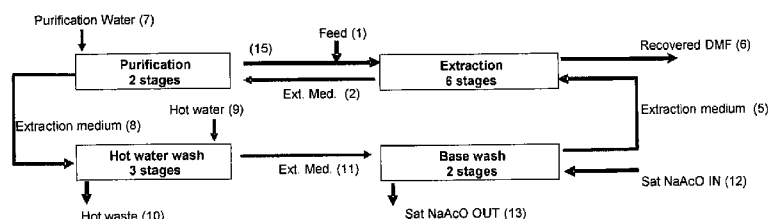


FIG. 3

(57) **Abstract:** A method of removing a carboxylic acid from a liquid that contains a tertiary amide solvent includes a step of contacting the liquid with an extraction medium comprising an amine. The amine is immiscible with both water and the tertiary amide solvent, and the contacting step forms a de-acidified phase containing the tertiary amide solvent and a phase containing the extraction medium and the carboxylic acid. Both the liquid that contains the tertiary amide solvent and the de-acidified phase may also contain a sucrose-6-acylate.