



- (51) **International Patent Classification:**
C07C 7/152 (2006.01) *C07C 11/02* (2006.01)
- (21) **International Application Number:**
PCT/EP2012/069461
- (22) **International Filing Date:**
2 October 2012 (02.10.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
11184464.3 10 October 2011 (10.10.2011) EP
- (71) **Applicants:** SAUDI BASIC INDUSTRIES CORPORATION [SA/SA]; P.O. Box 5101, 11422 Riyadh (SA). TERRAMARK MARKENCREATION GMBH [DE/DE]; Wachmannstrasse 1b, 28209 Bremen (DE).
- (72) **Inventors:** AL-HAZMI, Mohammed, H.; Saudi Basic Industries Corporation, P.O. Box 5101, 11422 Riyadh (SA). HASHMI, Syed, M., Azhar; Saudi Basic Industries Corporation, P.O. Box 42503, 11551 Riyadh (SA). AL-NAFFISA, Abdullah; Saudi Basic Industries Corporation, P.O. Box 42503, 11551 Riyadh (SA).
- (74) **Agent:** SCHOLZ, Volker; Boehmert & Boehmert, Hollerallee 32, 28209 Bremen (DE).

(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, BN, BR, BW, BY, BZ, CA, CH, CL, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, 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:** METHOD FOR REMOVAL OF ORGANIC AMINES FROM HYDROCARBON STREAMS

(57) **Abstract:** The present invention relates to a method for removal of an organic amine from a liquid hydrocarbon stream containing the amine, comprising the steps: a) adding water to the hydrocarbon stream containing the amine, b) bubbling carbon dioxide through the hydrocarbon stream containing the amine, and separating a solid phase formed containing the amine from a liquid phase.



WO 2013/053623 A1