

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
10 May 2012 (10.05.2012)

PCT

(10) International Publication Number
WO 2012/061095 A1(51) International Patent Classification:
C07C 211/00 (2006.01)(21) International Application Number:
PCT/US2011/057602(22) International Filing Date:
25 October 2011 (25.10.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/406,570 25 October 2010 (25.10.2010) US
61/406,556 25 October 2010 (25.10.2010) US
61/406,547 25 October 2010 (25.10.2010) US(71) Applicant (for all designated States except US):
STEPAN COMPANY [US/US]; 22W. Frontage Road,
Northfield, IL 60093 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ALLEN, Dave, R.
[US/US]; 849 N. Franklin #1212, Chicago, IL 60610
(US). ALONSO, Marcos [US/US]; 6060 N. Ridge Ave.
#4F, Chicago, IL 60660 (US). BERNHARDT, Randal,
J. [US/US]; 39771 N. Wittenburg Drive, Antioch, IL
60002 (US). BROWN, Aaron [US/US]; 2022 W. Estes,
Chicago, IL 60645 (US). BUCHEK, Kelly [US/US];
2208 Seaver Lane, Hoffman Estates, IL 60169 (US).
LUEBKE, Gary [US/US]; 5701 N. Sheridan Road, Unit
24 M, Chicago, IL 60660 (US). LUKA, Renee [US/US];
1419 W. Touhy Ave, Park Ridge, IL 60068 (US).
MALEC, Andrew, D. [US/US]; 532 W. Belmont Ave.
#N2, Chicago, IL 60657 (US). MASTERS, Ronald, A.
[US/US]; 2516 Wakegan Road, #348, Glenview, IL
60025 (US). MUNIE, Lawrence, A. [US/US]; 1387
Fairport Drive, Grayslake, IL 60030 (US). MURPHY,
Dennis, S. [US/US]; 1239 Deer Trail Lane, Liberville, IL
60048 (US). SHAPIRO, Irene [US/US]; 337 Fox Hill
Drive, Buffalo Grove, IL 60089 (US). SKELTON, Patti
[US/US]; 866 Moon Bridge Road, Winter, GA 30680(US). SOOK, Brian [US/US]; 1976 Alcovy Trace Way,
Lawrenceville, GA 30045 (US). TERRY, Michael, R.
[US/US]; 916 Charles Avenue, Gurnee, IL 60031 (US).
WHITLOCK, Laura, Lee [US/US]; 1610 Lancelot
Ave., Highland Park, IL 60035 (US). WIESTER,
Michael [US/US]; 2052 W. Summerdale Ave Apt. 2B,
Chicago, IL 60625 (US). WOLFE, Patrick, Shane [US/
US]; 145 N. Clark Drive, Palatine, IL 60074 (US).(74) Agent: DILWORTH IP, LLC; 2 Corporate Drive, Suite
206, Trumbull, CT 06611 (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, 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, 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, MD,
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))
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments (Rule 48.2(h))

(54) Title: FATTY AMINES, AMIDOAMINES, AND THEIR DERIVATIVES FROM NATURAL OIL METATHESIS

(57) Abstract: Fatty amine compositions made from a metathesis-derived C10-C17 monounsaturated acid, octadecene-1,18-dioic acid, or their ester derivatives are disclosed. In another aspect, fatty amidoamines made by reacting a metathesis-derived C10-C17 monounsaturated acid, octadecene-1,18-dioic acid, or their ester derivatives with an aminoalkyl-substituted tertiary amine are disclosed. The fatty amines or amidoamines are advantageously sulfonated, sulfated, oxidized, or reduced. In other aspects, the ester derivative is a modified triglyceride made by self-metathesis of a natural oil or an unsaturated triglyceride made by cross-metathesis of a natural oil with an olefin.



WO 2012/061095 A1