



(43) International Publication Date
22 May 2014 (22.05.2014)

(10) International Publication Number
WO 2014/078149 A1

(51) International Patent Classification:

C10M 105/02 (2006.01) *C10M 105/08* (2006.01)
C10M 105/04 (2006.01) *C10M 111/02* (2006.01)

(21) International Application Number:

PCT/US2013/068729

(22) International Filing Date:

6 November 2013 (06.11.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/728,108 19 November 2012 (19.11.2012) US

(71) Applicant: BIOSYNTHETIC TECHNOLOGIES, LLC
[US/US]; 2 Park Plaza, Suite 200, Irvine, California 92614
(US).

(72) Inventors: THOMPSON, Travis; 6110 East Baja Drive,
Anaheim, California 92807 (US). FOREST, Jeremy; 1561
Mesa Drive, Newport Beach, California 92660 (US).
BREDSGUARD, Jakob; 22906 Willard Avenue, Lake
Forest, California 92630 (US).

(74) Agent: FOREST, Jeremy; Biosynthetic Technologies, 2
Park Plaza, Suite 200, Irvine, California 92614 (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, 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, IR, IS, JP, KE, KG, 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, SA,
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,
KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

Published:

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

(54) Title: DIELS ALDER BASED ESTOLIDE AND LUBRICANT COMPOSITIONS

(57) Abstract: Provided herein are compositions containing at least one estolide compound and at least one ene and/or Diels Alder compound. In certain embodiments, the addition of at least one ene and/or Diels Alder compound to an estolide-containing composition may improve the cold temperature, viscometric, and/or anti-wear properties of the composition.



WO 2014/078149 A1