

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
24 June 2021 (24.06.2021)



(10) International Publication Number
WO 2021/127183 A1

(51) International Patent Classification:
C10M 107/28 (2006.01)

(21) International Application Number:
PCT/US2020/065616

(22) International Filing Date:
17 December 2020 (17.12.2020)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/949,676 18 December 2019 (18.12.2019) US

(71) Applicant: **THE LUBRIZOL CORPORATION**
[US/US]; 29400 Lakeland Blvd., Wickliffe, Ohio
44092-2298 (US).

(72) Inventors: **BURRINGTON, James D.**; 29400 Lakeland
Blvd., Wickliffe, Ohio 44092-2298 (US). **PUCKACE,**
James S.; 820 Forest Glen Court, Palm Harbor, Florida
34683 (US). **SAMMUT, Alexander**; 29400 Lakeland
Blvd., Wickliffe, Ohio 44092-2298 (US). **GARWOOD,**
Greg; 29400 Lakeland Blvd., Wickliffe, Ohio 44092-2298
(US).

(74) Agent: **MILLER, Michael A.** et al.; The Lubrizol Corpo-
ration, 29400 Lakeland Blvd., Legal Department, MD022B,
Wickliffe, Ohio 44092-2298 (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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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).

(54) Title: POLYMERIC SURFACTANT COMPOUND

(57) Abstract: The instant disclosure relates to a lubricant composition having an oil of lubricating viscosity, a polymeric surfactant compound that is an acylated polymer having a number average molecular weight of about 500 to about 50,000 where the polymer comprises a branched olefin having from 8 to 30 carbon atoms. The acylated polymer can further be reacted with an amine or alcohol to form an amide, imide, ester or combinations thereof. The present disclosure further relates to lubricant compositions that exhibit good dispersancy and viscometric performance.

WO 2021/127183 A1