

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

(19) World Intellectual Property  
Organization  
International Bureau

(43) International Publication Date  
19 December 2024 (19.12.2024)



(10) International Publication Number  
**WO 2024/259449 A1**

(51) International Patent Classification:

C10M 149/02 (2006.01) C08F 255/02 (2006.01)  
C08F 8/32 (2006.01) C08F 255/04 (2006.01)  
C08F 222/06 (2006.01)

LU, LV, MC, ME, 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).

(21) International Application Number:

PCT/US2024/034400

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

(22) International Filing Date:

17 June 2024 (17.06.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/521,484 16 June 2023 (16.06.2023) US

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))

(71) Applicant: CHEVRON ORONITE COMPANY LLC  
[US/US]; P.O. Box 6006, San Ramon, California  
94583-0806 (US).

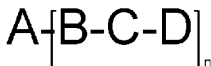
(72) Inventors: SHIH, Jiun-Le; Chevron Corporation, P.O.  
Box 6006, San Ramon, California 94583-0806 (US).  
RUHE JR., William R.; Chevron Corporation, P.O. Box  
6006, San Ramon, California 94583-0806 (US). DRIS-  
COLL, Cory; Chevron Corporation, P.O. Box 6006, San  
Ramon, California 94583-0806 (US).

(74) Agent: PIO, Michael Sungjoon et al.; Chevron Corpora-  
tion, P.O. Box 6006, San Ramon, California 94583-0806  
(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, CV, CZ, DE, DJ, DK, DM,  
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,  
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,  
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY,  
MA, MD, MG, MK, MN, MU, 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, CV,  
GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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,

(54) Title: POLYMERIC SOOT DISPERSANT



(57) Abstract: A high molecular weight polymeric dispersant composition is described. The dispersant is represented by the generalized structure: where A is olefin copolymer, B is alkyl imide or alkyl amide, C is polyamine, alkyl amine, alkyl ether amine or alkyl hydroxyl amine, and D is 1-(arene-2-yloxy)propan-2-ol; and n is 1 to 15.

WO 2024/259449 A1