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(71) Applicant (for all designated States except US):

CHEVRON ORONITE COMPANY LLC [US/US];
6001 Bollinger Canyon Road, San Ramon, CA 94583
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HARRISON, James, J.** [US/US]; 12 Stonehaven Court, Novato, CA 94945 (US). **STOKES, Casey, D.** [US/US]; 1143 Seventh Street, Novato, CA 94945 (US).

(74) Agents: **CAROLI, Claude, J.** et al.; Chevron Corporation, Law Department, Post Office Box 6006, San Ramon, CA 94583-0806 (US).

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(54) Title: COPOLYMERS MADE WITH ALLYL-TERMINATED POLYOLEFINS AND UNSATURATED ACIDIC REAGENTS, DISPERSANTS USING SAME, AND METHODS OF MAKING SAME

(57) Abstract: Copolymers made with allyl-terminated polyolefins and unsaturated acidic reactants, dispersants using same, and methods of making same are provided. Under one aspect, a copolymer of an unsaturated acidic reactant and high molecular weight polyolefin, wherein the polyolefin comprises an allyl-terminated polymeric product, is provided. The allyl-terminated polymeric product is formed, e.g., by forming a quasi-living tert-halide terminated polyolefin under suitable quasi-living conditions, and contacting the tert-halide terminated polyolefin with an allylsilane compound and a Lewis acid. In some embodiments, the allylsilane compound includes allyltrimethylsilane.



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