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

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

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CHERPECK, Richard E.** [US/US]; 8962 Cypress Ave., Cotati, California US (US). **SMOCHA, Ruth** [US/US]; 887 Bush St., Apt. 404, San Francisco, California 94108 (US).

(74) Agents: **FOLEY, Joseph P.** et al.; Chevron Corporation, Law Department, Post Office Box 6006, San Ramon, California 94583-0806 (US).

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(54) Title: CARBONYL-ENE FUNCTIONALIZED POLYOLEFINS

(57) Abstract: Disclosed is a method for preparing a hydroxyl functionalized polymer from a Lewis acid promoted carbonyl-ene reaction comprising: selecting a vinylidene terminated polyolefin having a number average molecular weight from about 950 to about 5000 and having a terminal vinylidene content greater than 50 mole percent; selecting a carbonyl enophile; selecting a Lewis acid; and contacting the components in step a), b) and c) under reactive conditions to form the hydroxyl functionalized polymer.

