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(71) Applicants: **CHEVRON ORONITE COMPANY LLC** [US/US]; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **CHEVRON U.S.A. INC.** [US/US]; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US).

(72) Inventors: **KUO, Chung-Hao**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **RUHE JR., William Raymond**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **NG, Man Kit**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **FUENTES-AFFLICK, Peter A.**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **ICKES, Andrew M.**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **CHAN, Carrie Y.**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US). **GU-NAWAN, Theresa L.**; 6001 Bollinger Canyon Road, San Ramon, California 94583 (US).

(74) Agent: **PIO, Michael Sungjoon et al.**; P.O. Box 6006, San Ramon, California 94583-0806 (US).

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(54) Title: FUEL ADDITIVES FOR MITIGATING INJECTOR NOZZLE FOULING AND REDUCING PARTICULATE EMISSIONS

(57) Abstract: The present disclosure provides a fuel composition that includes hydrocarbon-based fuel boiling in the gasoline or diesel range; an amine-based detergent given by formula $R_1-O-(CH_2)_m-NHR_2$, wherein the additive is present in about 10 ppm to about 750 ppm by weight based on total weight of the fuel composition; wherein R_1 is a hydrocarbyl group having 8 to 20 carbons, R_2 is hydrogen or $(CH_2)_nNH_2$ moiety, and wherein m, n are independently integers having a value of 3 or greater; and one or more nitrogen-containing detergent.

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