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(71) Applicant: **BAKER HUGHES OILFIELD OPERATIONS LLC** [US/US]; 17021 Aldine Westfield Road, Houston, TX 77073 (US).

(72) Inventors: **YANG, Jianzhong**; 17021 Aldine Westfield Road, Houston, TX 77073 (US). **WANG, Xiaofeng**; 17021 Aldine Westfield Road, Houston, TX 77073 (US). **HARRELL, Bradley G.**; 17021 Aldine Westfield Road, Houston, TX 77073 (US). **NADRES, Enrico**; 17021 Aldine Westfield Road, Houston, TX 77073 (US).

(74) Agent: **SULLIVAN, David M.**; Crowe & Dunlevy, P.C., Braniff Building, 324 N. Robinson Ave., Suite 100, Oklahoma City, OK 73102 (US).

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(54) Title: CROSSLINKED POLYMERIC HIGH TEMPERATURE CORROSION INHIBITOR

(57) Abstract: In one aspect, a high-temperature corrosion inhibitor includes a crosslinked polymer, wherein the crosslinked polymer includes at least one polyaromatic carboxylic acid compound and at least one crosslinking agent. In another aspect, a crosslinked polymer for use as a high-temperature corrosion inhibitor includes at least one polyaromatic carboxylic acid compound and ethylene oxide. The polyaromatic carboxylic acid includes benzene-1,2,4,5-tetracarboxylic acid, an anhydride of benzene-1,2,4,5-tetracarboxylic acid, and combinations thereof. In yet another aspect, the disclosure is directed to a method for reducing naphthenic acid corrosion at high temperatures. The method includes the steps of providing a high-temperature corrosion inhibitor that includes a crosslinked polymer and treating a crude oil containing naphthenic acid with the high-temperature corrosion inhibitor.



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