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(54) Title: PRODUCTION OF VINYLIDENE-TERMINATED POLYOLEFINS VIA QUENCHING WITH MONOSULFIDES

(57) Abstract: Provided herein are methods for a vinylidene terminated polyolefin comprising: a. ionizing a polyolefin in the presence of a Lewis acid to form an ionized polyolefin; b. reacting the ionized polyolefin from step (a) with one or more dihydrocarbylmonosulfides; and c. reacting the product of step (b) with one or more proton acceptor compounds. In some embodiments, the dihydrocarbylmonosulfide has the formula: R₁-S-R₂ wherein R₁ and R₂ are each, independently, hydrocarbyl.



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