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(72) Inventors: **SMALL, Brooke L.**; 1862 Kingwood Dr, Kingwood, Texas 77339 (US). **LESEBERG, Julie A.**; 1862 Kingwood Dr, Kingwood, Texas 77339 (US).

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(74) Agent: **TACONI, Katherine** et al.; Chevron Phillips Chemical Company LP, P.O. Box 4910, The Woodlands, TX 77387-4910 (US).

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(71) Applicant: **CHEVRON PHILLIPS CHEMICAL COMPANY LP** [US/US]; P.O. Box 4910, The Woodlands, Texas 77387-4910 (US).

(54) Title: ALKYLALUMINOXANE COMPOSITIONS PREPARED FROM TRIMETHYLALUMINUM AND TRIETHYLALUMINUM AND USES THEREOF IN ETHYLENE OLIGOMERIZATION PROCESSES

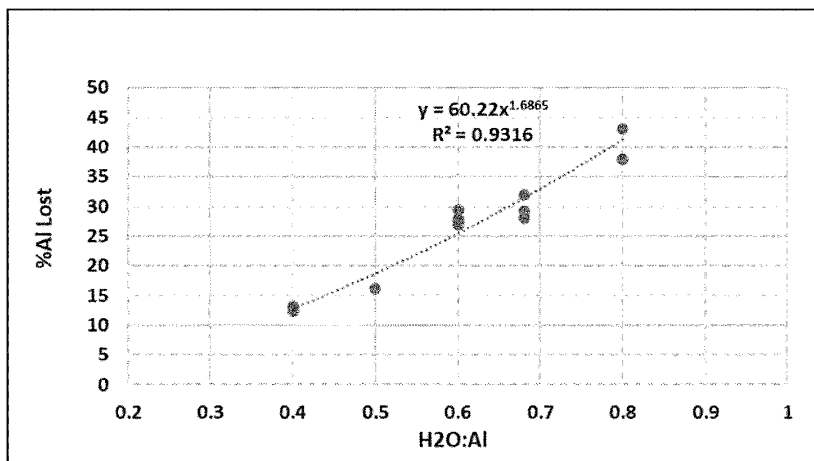


FIG. 1

(57) Abstract: Alkylaluminoxane compositions are produced by a process that includes the steps of reacting trimethylaluminum, triethylaluminum, and water in a hydrocarbon solvent to form an alkylaluminoxane, and then removing insoluble aluminum-containing materials from the solvent to form the alkylaluminoxane composition containing from 0.1 to 20 wt. % of aluminum. Generally, the molar ratio of trimethylaluminum:triethylaluminum is from 5:95 to 80:20, and the molar ratio of water:aluminum is from 0.2:1 to 1:1. The alkylaluminoxane compositions can be utilized as an activator in transition metal-based catalyst systems and in ethylene oligomerization processes.

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