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(71) Applicant (for all designated States except US):
CHEVRON PHILLIPS CHEMICAL COMPANY LP
[US/US]; 10001 Six Pines Drive, The Woodlands, TX
77380 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MCDANIEL, Max,**
P. [US/US]; 1601 Melmart Drive, Bartlesville, OK 74006
(US). **THORN, Matthew, G.** [US/US]; 1787 Windflower
Ct., Lebanon, OH 45036 (US). **BENHAM, Elizabeth, A.**
[US/US]; 9310 Katie Grace Circle, Spring, TX 77379
(US).

(74) Agent: **HUSEMAN, Cheryl, L.**; Chevron Phillips Chem-
ical Company LP, 10001 Six Pines Drive, The Wood-
lands, TX 77380 (US).

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(54) Title: HALF-METALLOCENE CATALYST COMPOSITIONS AND THEIR POLYMER PRODUCTS

(57) Abstract: The present invention provides polymerization catalyst compositions employing half-metallocene compounds with a heteroatom-containing ligand bound to the transition metal. Methods for making these hybrid metallocene compounds and for using such compounds in catalyst compositions for the polymerization and copolymerization of olefins are also provided.



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