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(71) Applicant: DOW GLOBAL TECHNOLOGIES LLC

[US/US]; 2211 H.H. Dow Way, Midland, Michigan 48674 (US).

(72) Inventors: CAMELIO, Andrew M.; 1776 Building, 633

Washington Street, Midland, Michigan 48667 (US). BAIL-

LIE, Rhett A.; 230 Abner Jackson Parkway, Lake Jackson, Texas 77566 (US). KRAUSE, Matthew L.; 693 Washington Street, Midland, Michigan 48640 (US).

(74) Agent: TWILLEY, Mark A.; 2211 H.H. Dow Way, Midland, Michigan 48674 (US).

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(54) Title: SUPPORTED OLEFIN POLYMERIZATION CATALYSTS COMPRISING SUBSTITUTED 2-HYDROXYTHIOPHENE COMPOUNDS

Scheme 1:

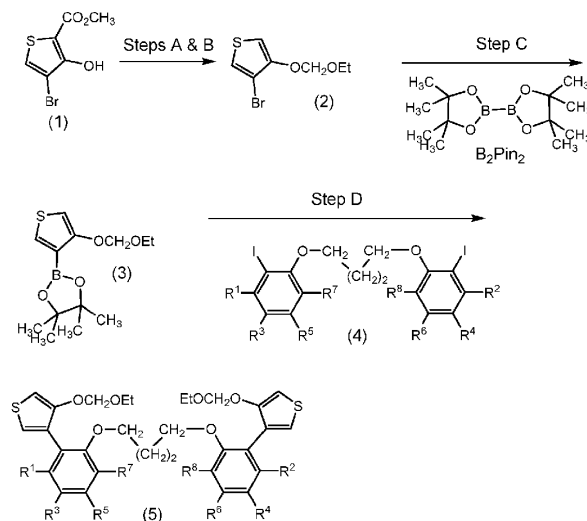


FIG. 1

(57) Abstract: Disclosed are a supported catalyst system comprising a substituted 2-hydroxythiophene compound and a support material; and a method of making the supported catalyst system; Also disclosed are a gas phase or slurry phase polymerization process employing the supported catalyst system; and a polyolefin made by the gas phase or slurry phase polymerization process. Also disclosed are the substituted 2-hydroxythiophene compound and a precatalyst comprising the substituted 2-hydroxythiophene compound, a metal atom, and a leaving group. Also disclosed are methods of making the precatalyst and the substituted 2-hydroxythiophene compound.

[Continued on next page]

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