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(54) Title: PROCESSES FOR PRODUCING HIGH PROPYLENE CONTENT PEDM USING TETRAHYDROINDACENYL CATALYST SYSTEMS

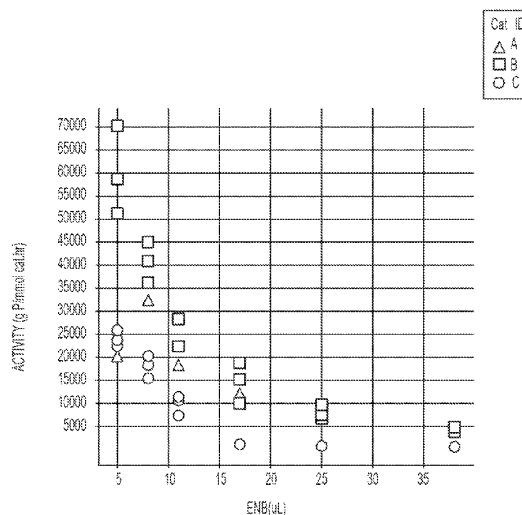


FIG. 1

(57) Abstract: The present disclosure provides methods for producing an olefin polymer by contacting a C₃-C₄₀ olefin, ethylene and a diene with a catalyst system including an activator and a metallocene catalyst compound comprising a substituted or unsubstituted indacenyl group and obtaining a C₃-C₄₀ olefin-ethylene-diene terpolymer typically comprising from 1 to 35 mol% of ethylene, from 98.9 to 65 mol% C₃-C₄₀ olefin, and, optionally, from 0.1 to 10 mol% diene. Preferably, a propylene-ethylene-ethylidene norbornene is obtained.

[Continued on next page]

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