

ABSTRACT OF THE DISCLOSURE
SUBSTITUTED INDENYL UNBRIDGED METALLOCENES

An unbridged metallocene of the formula (In)(Cp)MeQ₂ wherein In is a substituted indenyl radical having a substituent in at least one of the 1, 2, and 3 positions, said substituents a hydrocarbyl radical having 1 to 10 carbon atoms or a trialkylsilyl radical wherein alkyl has 1 to 4 carbons; Cp is an unsubstituted cyclopentadienyl radical; Me is a transition metal which is titanium, zirconium, or hafnium; and each Q is the same or different and is a hydrocarbyl radical having 1 to 12 carbon atoms, an alkoxy radical having 1 to 12 carbon atoms, an aryloxy radical having 6 to 12 carbon atoms, hydrogen, or a halide and its use in the polymerization of olefins.