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(54) Title: CATALYST AND METHODS FOR POLYMERIZING CYCLOOLEFINS			
(57) Abstract			
Methods for the addition polymerization of cycloolefins using a cationic Group 10 metal complex and a weakly coordinating anion of the formula: $[(R')_2M(L')_x(L'')_y]_b [WCA]_d$ wherein $[(R')_2M(L')_x(L'')_y]$ is a cation complex where M represents a Group 10 transition metal; R' represents an anionic hydrocarbyl containing ligand; L' represents a Group 15 neutral electron donor ligand; L'' represents a labile neutral electron donor ligand; x is 1 or 2; and y is 0, 1, 2, or 3; and z is 0 or 1, wherein the sum of x, y, and z is 4; and [WCA] represents a weakly coordinating counteranion complex; and b and d are numbers representing the number of times the cation complex and weakly coordinating counteranion complex are taken to balance the electronic charge on the overall catalyst complex.			