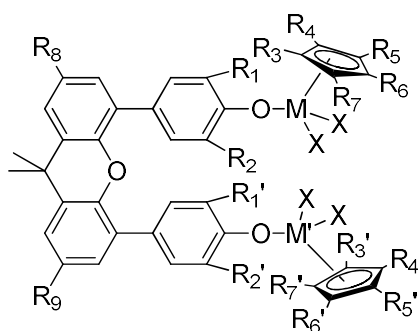


Abstract

CATALYST FOR OLEFIN POLYMERIZATION AND POLYMERIZATION METHOD USING SAME

5 Disclosed is a catalyst for olefin polymerization, comprising a main catalyst and a cocatalyst; the main catalyst is a bisphenol metal complex represented by formula I, and the cocatalyst comprises an organoaluminum compound; in formula I, R_1 , R_1' , R_2 , R_2' are the same or different, and are each independently selected from hydrogen and a substituted or unsubstituted C_1 - C_{20} hydrocarbyl; R_3 - R_7 , R_3' - R_7' are the same or
10 different, and are each independently selected from hydrogen and a substituted or unsubstituted C_1 - C_{20} hydrocarbyl; R_8 and R_9 are the same or different, and are each independently selected from hydrogen or a substituted or unsubstituted C_1 - C_{20} hydrocarbyl; M and M' are the same or different, and are selected from Group IV metals; and X is halogen;



Formula I.