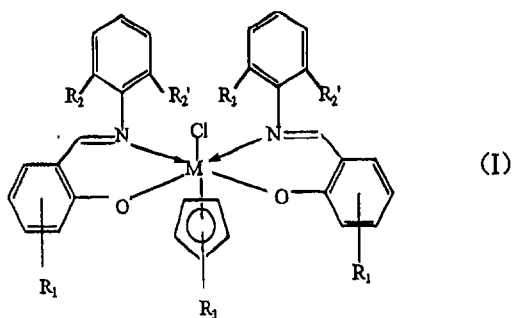


A BIS-SCHIFF BASE LIGAND-CONTAINING MONO-METALLOCENE OLEFIN POLYMERIZATION CATALYST, ITS PREPARATION PROCESS AND APPLICATION

ABSTRACT

A catalyst for olefin polymerization having the following structural formula (I):



wherein R_1 is selected from the group consisting of hydrogen, C_1 - C_{12} alkyl, C_1 - C_{12} alkoxy, or C_6 - C_{12} aryl, R_2 and R_2' are respectively selected from hydrogen and C_1 - C_4 alkyl, R_3 is selected from the group consisting of hydrogen, C_1 - C_{12} alkyl, C_1 - C_{12} alkoxy, and C_6 - C_{12} aryl, and M is selected from Ti, Zr, and Hf. The catalyst is suitable for olefin polymerization to yield polymerized products with high molecular weight and high insertion rate of comonomers.



162162



G00002