

Title (en)
NOVEL CATALYSTS AND METHODS OF USE THEREOF TO PRODUCE VINYL TERMINATED POLYMERS

Title (de)
NEUARTIGE KATALYSATOREN UND VERWENDUNGSVERFAHREN DAFÜR ZUR HERSTELLUNG VON VINYLTERMINIERTEN POLYMEREN

Title (fr)
NOUVEAUX CATALYSEURS ET PROCÉDÉS FAISANT APPEL À CES CATALYSEURS POUR PRODUIRE DES POLYMÈRES À TERMINAISON VINyliQUE

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Abstract (en)
[origin: WO2012134719A2] This invention relates to a homogenous process for making a vinyl terminated propylene polymer, wherein the process comprises: contacting, propylene, under polymerization conditions, with a catalyst system comprising an activator and at least one metallocene compound, where the metallocene compound is represented by the formula (I) where: M is hafnium or zirconium; each X is, independently, selected from the group consisting of hydrocarbyl radicals having from 1 to 20 carbon atoms, hydrides, amides, alkoxides, sulfides, phosphides, halides, dienes, amines, phosphines, ethers, and a combination thereof, (two X's may form a part of a fused ring or a ring system); each R1 is, independently, a C1 to C10 alkyl group; each R2 is, independently, a C1 to C10 alkyl group; each R3 is, independently, hydrogen; each R4, R5, and R6, is, independently, hydrogen or a substituted or unsubstituted hydrocarbyl group, a heteroatom or heteroatom containing group; T is a bridging group; each R7 is, independently, hydrogen, halogen, or a C1 to C20 hydrocarbyl, and two R7 can form a cyclic structure including aromatic, partially saturated, or saturated cyclic or fused ring system; and further provided that any of adjacent R4, R5, and R6 groups may form a fused ring or multicenter fused ring system where the rings may be aromatic, partially saturated or saturated.

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