

Title (en)
METALLOCENES, LIGANDS AND OLEFIN POLYMERIZATION

Title (de)
METALLOCENE, LIGANDE UND OLEFINPOLYMERISATION

Title (fr)
COMPOSES ORGANOMETALLIQUES, LIGANDS ET POLYMERISATION D'OLEFINES

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Abstract (en)
[origin: WO9958539A1] A class of metallocene compounds is disclosed having the following general formula (I): $R_n(Cp)(A)ML_p$ wherein R_n is a structural bridge; Cp is a heterocyclic cyclopentadienyl group of formula (II) wherein $R_{<1>}$ and $R_{<2>}$ are hydrogen or hydrocarbon groups; M is a transition metal of group 3, 4, 5 or 6 or to the lanthanides or the actinides in the Periodic Table or the Elements (new IUPAC version); L is a monoanionic ligand; Z is $NR_{<3>}$ or O; X and Y are selected from $(CR_{<4>2})_n$, $BR_{<4>2}$, $PR_{<4>}$, $SiR_{<4>2}$ or $GeR_{<4>2}$; and substituents $R_{<4>}$ are hydrogen atoms or hydrocarbon radicals, with the proviso that both X and Y cannot be carbon atoms at the same time; A is a group selected from substituted or unsubstituted cyclopentadienyls, which may carry one or more condensed cycles, $=NR_{<5>}$, $-O-$, $-S-$ and $=PR_{<5>}$ groups, $R_{<5>}$ being defined as substituents $R_{<1>}$ and $R_{<2>}$, and groups corresponding to formula (II); p is an integer from 0 to 3. These metallocene compounds are useful as catalyst components for the polymerization of olefins.

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