Title (en)

METALLOCENES, LIGANDS AND OLEFIN POLYMERIZATION

Title (de)

METALLOCENE, LIGANDE UND OLEFINPOLYMERISATION

Title (fr)

COMPOSES ORGANOMETALLIQUES, LIGANDS ET POLYMERISATION D'OLEFINES

Publication

**EP 0994886 A1 20000426 (EN)**

Application

**EP 99924944 A 19990507**

Priority

- EP 99924944 A 19990507
- EP 9903247 W 19990507
- EP 98201501 A 19980508

Abstract (en)

[origin: WO9958539A1] A class of metallocene compounds is disclosed having the following general formula (I): Rn(Cp)(A)MLp wherein Rn 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.

IPC 1-7

**C07F 17/00**; C07F 7/08; C07F 7/30; C07F 5/02; C08F 10/00; C07F 9/6541

IPC 8 full level

**C07F 7/10** (2006.01); **C07F 5/02** (2006.01); **C07F 7/00** (2006.01); **C07F 7/08** (2006.01); **C07F 7/30** (2006.01); **C07F 9/6518** (2006.01); **C07F 9/6541** (2006.01); **C07F 9/6596** (2006.01); **C07F 17/00** (2006.01); **C07F 19/00** (2006.01); **C08F 4/62** (2006.01); **C08F 10/00** (2006.01); **C08F 10/02** (2006.01); C08F 4/659 (2006.01); C08F 4/6592 (2006.01); C08F 110/02 (2006.01); C08F 210/16 (2006.01)

CPC (source: EP KR)

**C07F 5/027** (2013.01 - EP); **C07F 7/0816** (2013.01 - EP); **C07F 7/30** (2013.01 - EP); **C07F 9/6596** (2013.01 - EP); **C07F 17/00** (2013.01 - EP KR); **C08F 10/02** (2013.01 - EP); C08F 4/65908 (2013.01 - EP); C08F 4/65912 (2013.01 - EP); C08F 4/65925 (2013.01 - EP); C08F 110/02 (2013.01 - EP); C08F 210/16 (2013.01 - EP)

Citation (search report)

See references of WO 9958539A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL

DOCDB simple family (publication)

**WO 9958539 A1 19991118**; AU 4141999 A 19991129; CA 2294608 A1 19991118; CN 1268951 A 20001004; EP 0994886 A1 20000426; JP 2002513428 A 20020508; KR 20010021604 A 20010315

DOCDB simple family (application)

**EP 9903247 W 19990507**; AU 4141999 A 19990507; CA 2294608 A 19990507; CN 99800705 A 19990507; EP 99924944 A 19990507; JP 55623599 A 19990507; KR 20007000162 A 20000107