Title (en)

NEW METALLOCENE COMPOUNDS, CATALYSTS COMPRISING THEM, PROCESS FOR PRODUCING AN OLEFIN POLYMER BY USE OF THE CATALYSTS, AND OLEFIN HOMO- AND COPOLYMERS

Title (de)

NEUE METALLOCENVERBINDUNGEN, KATALYSATOREN DAMIT, VERFAHREN ZUR HERSTELLUNG EINES OLEFINPOLYMERS DURCH VERWENDUNG DER KATALYSATOREN UND OLEFINHOMOPOLYMERE UND -COPOLYMERE

Title (fr)

NOUVEAUX COMPOSÉS DE MÉTALLOCÈNE, CATALYSEURS COMPRENANT CEUX-CI, PROCÉDÉ POUR PRODUIRE UN POLYMÈRE D'OLÉFINE PAR UTILISATION DES CATALYSEURS, ET HOMO- ET COPOLYMÈRES D'OLÉFINE

Publication

EP 2384343 A1 20111109 (EN)

Application

EP 08876396 A 20081231

Priority

US 2008014144 W 20081231

Abstract (en)

[origin: WO2010077230A1] Certain metallocene compounds are provided that, when used as a component in a supported polymerization catalyst under industrially relevant polymerization conditions, afford high molar mass homo polymers or copolymers like polypropylene or propylene/ethylene copolymers without the need for any a -branched substituent in either of the two available 2- positions of the indenyl ligands. The substituent in the 2-position of one indenyl ligand can be any radical comprising hydrogen, methyl, or any other C2-C40 hydrocarbon which is not branched in the a -position, and the substituent in the 2-position of the other indenyl ligand can be any C5-C40 hydrocarbon radical with the proviso that this hydrocarbon radical is branched in the ß-position and that the ß-carbon atom is a quarternary carbon atom and part of a mono-cyclic hydrocarbon system. This metallocene topology affords high melting point, very high molar mass homo polypropylene and very high molar mass propylene-based copolymers. Furthermore, the activity/productivity levels of catalysts comprising the metallocenes of the present invention are exceptionally high.

IPC 8 full level

C08F 10/06 (2006.01); **C08F 4/642** (2006.01)

CPC (source: EP KR)

C07F 17/00 (2013.01 - EP); **C08F 4/642** (2013.01 - KR); **C08F 4/6592** (2013.01 - KR); **C08F 10/00** (2013.01 - KR); **C08F 10/06** (2013.01 - EP); C08F 4/65912 (2013.01 - EP); C08F 4/65916 (2013.01 - EP); C08F 210/06 (2013.01 - EP); C08F 210/16 (2013.01 - EP)

Citation (search report)

See references of WO 2010077230A1

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DOCDB simple family (application)

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