

Title (en)
CATALYST CONSTITUENTS AND CATALYST SYSTEM WITH A HIGH DEGREE OF POLYMERISATION ACTIVITY FOR THE PRODUCTION OF POLYMERS

Title (de)
KATALYSATORCOMPONENTE UND KATALYSATORSYSTEM MIT HOHER POLYMERISATIONSAKTIVITÄT ZUR HERSTELLUNG VON POLYMEREN

Title (fr)
CONSTITUANTS DE CATALYSEUR ET SYSTEME CATALYSEUR A HAUT DEGRE D'ACTIVITE DE POLYMERISATION UTILISES POUR PRODUIRE DES POLYMERES

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Application
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Abstract (en)
[origin: WO9707141A1] In the present invention, catalyst systems with a high degree of polymerisation are described which contain at least one catalyst constituent of general formula (I): R_nMX_m , in which $M<1>$ is Ti, Zr or Hf, $R<a>$ is C5 ($R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$) or C6 ($R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$, $R<6>$) wherein $R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$ and $R<6>$ are identical or different, and a hydrogen atom, a C1-C20 alkyl group, a C1-C10 alkoxy group, a C1-C10 fluoroalkyl group, a C6-C20 aryl group, a C6-C10 aryloxy group, a C2-C10 alkenyl group, a C6-C10 fluoroaryl group, a C7-C40 arylalkyl group, a C7-C40 alkylaryl group, a C8-C40 arylalkenyl group, a silyl group, a germyl group, or adjacent groups $R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$ and $R<6>$ which form with the connecting atoms thereof a ring system; R is one fluorine atom when $m = 1$, at least one fluorine atom when $m > 1$ and can be identical or different, and be at least one hydrogen atom, a C1-C20 alkyl group, a C1-C10 alkoxy group, a C1-C10 fluoroalkyl group, a C6-C20 aryl group, a C6-C10 aryloxy group, a C2-C10 alkenyl group, a C6-C10 fluoroaryl group, a C7-C40 arylalkyl group, a C7-C40 alkylaryl group, or a C8-C40 arylalkenyl group, an OH group, a $NR<7>2$ group or $SR<8>1$ group, wherein $R<7>$ and $R<8>$ are a C1-C20 alkyl group, a C1-C10 alkoxy group, a C1-C10 fluoroalkyl group, a C6-C20 aryl group, a C6-C10 aryloxy group, a C2-C10 alkenyl group, a C6-C10 fluoroaryl group, a C7-C40 arylalkyl group, a C7-C40 alkylaryl group, a C8-C40 arylalkenyl group, a silyl group, a germyl group or a halogen atom, m and n are integers, $m + n = 2$ to 4 , and m is at least 1 .
[origin: WO9707141A1] In the present invention, catalyst systems with a high degree of polymerisation are described which contain at least one catalyst constituent of general formula (I): R_nMX_m , in which $M<1>$ is Ti, Zr or Hf, $R<a>$ is C5 ($R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$) or C6 ($R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$, $R<6>$) wherein $R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$ and $R<6>$ are identical or different, and a hydrogen atom, a C1-C20 alkyl group, a C1-C10 alkoxy group, a C1-C10 fluoroalkyl group, a C6-C20 aryl group, a C6-C10 aryloxy group, a C2-C10 alkenyl group, a C6-C10 fluoroaryl group, a C7-C40 arylalkyl group, a C7-C40 alkylaryl group, a C8-C40 arylalkenyl group, a silyl group, a germyl group, or adjacent groups $R<1>$, $R<2>$, $R<3>$, $R<4>$, $R<5>$ and $R<6>$ which form with the connecting atoms thereof a ring system; R is one fluorine atom when $m = 1$, at least one fluorine atom when $m > 1$ and can be identical or different, and be at least one hydrogen atom, a C1-C20 alkyl group, a C1-C10 alkoxy group, a C1-C10 fluoroalkyl group, a C6-C20 aryl group, a C6-C10 aryloxy group, a C2-C10 alkenyl group, a C6-C10 fluoroaryl group, a C7-C40 arylalkyl group, a C7-C40 alkylaryl group, or a C8-C40 arylalkenyl group, an OH group, a $NR<7>2$ group or $SR<8>1$ group, wherein $R<7>$ and $R<8>$ are a C1-C20 alkyl group, a C1-C10 alkoxy group, a C1-C10 fluoroalkyl group, a C6-C20 aryl group, a C6-C10 aryloxy group, a C2-C10 alkenyl group, a C6-C10 fluoroaryl group, a C7-C40 arylalkyl group, a C7-C40 alkylaryl group, a C8-C40 arylalkenyl group, a silyl group, a germyl group or a halogen atom, m and n are integers, $m + n = 2$ to 4 , and m is at least 1 .

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