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09180137.3 21 December 2009 (21.12.2009) EP(71) Applicant (for all designated States except US): **DSM IP ASSETS B.V.** [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DOREMAELE, VAN, Gerardus, Henricus, Josephus** [NL/NL]; Op De Hoef 6, NL-6132 HN Sittard (NL). **ZUIDVELD, Martin, Alexander** [NL/NL]; Erasmusdomein 102a, NL-6229 GD Maastricht (NL). **MOUNTFORD, Philip**; 33 Barton Lane, Headington, Oxford OX3 9JW (GB). **HEATH, Alex**; 260 Grindley Lane, Blythe Bridge, Stoke-on-Trent ST11 9LW (GB). **SCOTT, Richard, T., W.**; Kirklands, Craigend Road, Stow, Gala Shiels TD1 2RJ (GB).(74) Agent: **MOOLJ, Johannes**; P.O. Box 9, NL-6160 MA Geleen (NL).

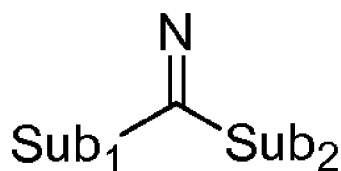
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(54) Title: TI CATALYST SYSTEM COMPRISING SUBSTITUTED CYCLOPENTADIENYL, AMIDINE AND DIENE LIG- AND



(formula 1)

(57) Abstract: The invention relates to a catalyst system for the polymerization of olefins comprising a metal complex of formula CyLMD and an activating cocatalyst, wherein M is titanium, Cy is a cyclopentadienyl-type ligand, D is a diene, L is an amidinate-containing ligand of formula (1), wherein the amidinate-containing ligand is covalently bonded to the titanium via the imine nitrogen atom, Sub₁ is a substituent, which comprises a group 14 atom through which Sub₁ is bonded to the imine carbon atom, Sub₂ is a substituent, which comprises a nitrogen atom, through which Sub₂ is bonded to the imine carbon atom, and Cy is a mono- or polysubstituted cyclopentadienyl-type ligand, wherein the one or more substituents of Cy are selected from the group consisting of halogen, hydrocarbyl, silyl and germly residues, optionally substituted with one or more halogen, amido, phosphido, alkoxy, or aryloxy residues. The invention further relates to a process for the preparation of a polymer comprising at least one aliphatic or aromatic hydrocarbyl C₂₋₂₀ olefin wherein the at least one aliphatic or aromatic olefin is contacted with the catalyst system of the present invention.