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(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). **QUIROGA NORAMBUENA, Victor, Fidel** [NL/NL]; Friezenstraat 13, NL-6226 AL Maastricht (NL). **LEBLANC, Alexandra** [FR/NL]; Sint Monulphusweg 16B, NL-6212 BG Maastricht (NL).

(74) Agent: **MOOIJ, Johannes**; P.O. Box 9, NL-6160 MA Geleen (NL).

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(54) Title: CATALYST COMPONENT FOR THE POLYMERIZATION OF OLEFINS HAVING A GUANIDINATE LIGAND

(57) Abstract: The invention relates to a new catalyst component for the polymerization of olefins comprising a compound of formula CyLMZ_p, wherein M is a Group 4-6 metal, Z is an anionic ligand, p is the number of anionic ligands, Cy is a mono- or poly-substituted cyclopentadienyl-type ligand and L is a guanidinate ligand of the formula wherein: each A is independently selected from nitrogen or phosphorus and R, R¹, R² and R³ are independently selected from the group consisting of hydrogen, hydrocarbyl, silyl and germyl residues, substituted or not with one or more halogen, amido, phosphido, alkoxy, or aryloxy radicals. The invention also relates to a catalyst system for the polymerization of olefins and a process for the polymerization of at least one olefin having 2 to 20 carbon atoms.

