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ABSTRACT OF THE DISCLOSURE



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An olefin polymerization catalyst comprising: (A) a solid catalyst component prepared by contacting (a) a dialkoxyl
5 magnesium, (b) a tetra-valent titanium halide, and (c) a phthalic acid diester in (d) an aromatic hydrocarbon having a boiling point in the range of 50 to 150°C, (B) an organoaluminum compound of the formula $R^1_pAlQ_{3-p}$, one or more compounds selected from the group consisting of (C) one or more halogen-containing
10 organosilicon compounds selected from (C¹) a halogen-containing organosilicon compound of the formula $R^2_1Si(OR^3)_{4-1-m}X_m$ and (C²) a halogen-containing organosilicon compound of the formula $R^4_qSi(OR^5)_{4-q}$, and (D) an organosilicon compound of the formula $R^6_sSi(OR^7)_{4-s}$. The catalyst exhibits
15 excellent activity to hydrogen and the same catalytic activity and yield performance as conventional catalysts, and possesses the capability of producing polymers with stereoregularity equivalent to conventional catalysts.