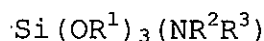


ABSTRACT

CATALYST FOR POLYMERIZING OR COPOLYMERIZING α -OLEFIN, CATALYST COMPONENT THEREOF, AND METHOD FOR POLYMERIZATION OF α -OLEFIN WITH THE CATALYST FOR USE IN POLYMERIZATION OR COPOLYMERIZATION OF α -OLEFIN

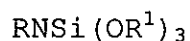
The invention has an object to provide a catalyst for polymerizing or copolymerizing an α -olefin, catalyst constituent thereof, and method of polymerizing α -olefins with the catalyst, for production of α -olefin polymers or copolymers with high hydrogen response, high polymerization reaction rate, high stereoregularity and excellent melt fluidity. The invention discloses a catalyst constituent of the catalyst for polymerizing or copolymerizing an α -olefin, represented by Formula 37 or 38:

Formula 37



(where in Formula 37, R^1 is a hydrocarbon group with 1 to 6 carbon atoms; R^2 is a hydrocarbon group with 1 to 12 carbon atoms or hydrogen; and R^3 is a hydrocarbon group with 1 to 12 carbon atoms)

Formula 38



(where in Formula 38, R^1 is a hydrocarbon group with 1 to 6 carbon atoms; and RN is a cyclic amino group).

FIGURE 5