

ABSTRACT OF THE DISCLOSURE

α -OLEFIN POLYMERIZATION CATALYST AND PROCESS FOR PRODUCING α -OLEFIN POLYMER

An α -olefin polymerization catalyst which comprises (A) a solid catalyst component obtained by treating a solid product obtained by contacting a compound having an M-O bond (M is the element of the 1st, 2nd, 13th and 14th Groups in the Periodic Table) with an organomagnesium compound in the presence of an electron donor, with an electron donor and successively a halide compound of metal of the 4th to 6th Groups in the Periodic Table, (B) an organoaluminum compound, and (C) an electron donative compound, and a process for producing an α -olefin polymer polymerizing an α -olefin with said catalyst.

A catalyst system for polymerizing an α -olefin having a narrow particle size distribution and having a high catalyst activity and a high stereoregularity enough to be unnecessary for removing a catalyst residue and an amorphous polymer is provided, and a process for producing an α -olefin polymer having a high bulk density and a high stereoregularity is provided.

(Figure 1)

