

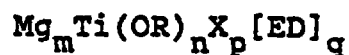
Abstract:

(Figure 1)

OLEFIN POLYMERIZATION CATALYST AND PROCESS
FOR PRODUCING ETHYLENE COPOLYMERS

An olefin polymerization catalyst comprising:

(A) a solid catalyst component containing a tri-valent titanium, which is represented by the composition formula



(wherein R is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen, ED is a electron donative compound, and m, n, p and q are each a number satisfying $1 \leq m \leq 51$, $0 < n \leq 5$, $5 \leq p \leq 106$ and $0.2 \leq q \leq 2$) obtained by reducing a titanium compound represented by the general formula $\text{Ti}(\text{OR}^1)_a\text{X}_{4-a}$ (wherein R^1 is a hydrocarbon group having 1 to 20 carbon atoms, X is a halogen atom and a is a number satisfying $0 < a \leq 4$) with an organomagnesium compound in the presence of an organic silicon compound at least one having /Si-O bond and an organic porous polymer, treating the resulting solid product with an ester compound and then reacting it with titanium tetrachloride or a mixture of titanium tetrachloride and an electron donative compound, and

(B) an organoaluminum compound,
and a process for producing an ethylene copolymer using the same.