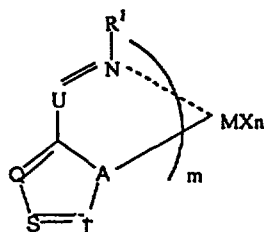


OLEFIN POLYMERIZATION CATALYST AND PROCESS
FOR OLEFIN POLYMERIZATION

ABSTRACT

The present invention provides an olefin polymerization catalyst by the use of which an olefin (co)polymer can be obtained with a high polymerization activity, and also provides a process for olefin polymerization using the catalyst. The olefin polymerization catalyst comprises a transition metal compound (A) represented by the formula (I):



(I)

M: atom of Group 3 to Group 11

U: R²-C, N, P

A: N, P

Q: R³-C, N, P

S: R⁴-C, N, P

T: R⁵-C, N, P

m: 2 - 6

R¹ - R⁵: hydrogen, hydrocarbon group, silicon-containing group or the like (When M is an atom of Group 6, R¹ is not an aromatic hydrocarbon group.)

n: number satisfying a valence of M

X: halogen, hydrocarbon group or the like

Figure 1