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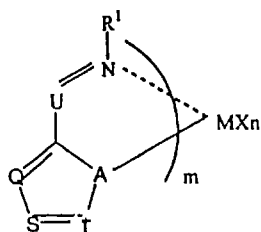
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OLEFIN POLYMERIZATION CATALYST AND PROCESS  
FOR OLEFIN POLYMERIZATION

**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  
5 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)



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10 M: atom of Group 3 to Group 11

U: R<sup>2</sup>-C, N, P

A: N, P

Q: R<sup>3</sup>-C, N, P

S: R<sup>4</sup>-C, N, P

15 T: R<sup>5</sup>-C, N, P

m: 2 - 6

R<sup>1</sup> - R<sup>5</sup>: hydrogen, hydrocarbon group, silicon-containing group or the like (When M is an atom of Group 6, R<sup>1</sup> is not an aromatic hydrocarbon group.)

20 n: number satisfying a valence of M

X: halogen, hydrocarbon group or the like

Figure 1