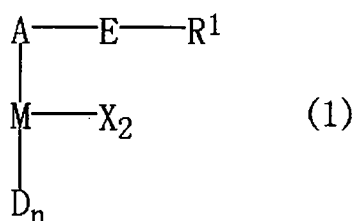


Abstract

TRANSITION METAL COMPOUND, CATALYST FOR ADDITION
POLYMERIZATION, AND PROCESS FOR PRODUCING ADDITION POLYMER

A transition metal compound (A) of the formula (1), a
catalyst for addition polymerization obtained by bringing the
5 transition metal compound to contact with (B) and/or (C) below,
and a process for producing an addition polymer with the catalyst:



wherein, M represents a titanium atom, zirconium atom or hafnium
atom in the +3 formal oxide condition; A represents a multidentate
10 mono-anionic ligand; R^1 represents an alkyl group, aralkyl group,
aryl group or substituted silyl group; E represents an oxygen
atom or sulfur atom; each of two Xs independently represents
a hydrogen atom, halogen atom, alkyl group, aralkyl group, aryl
group, substituted silyl group, alkoxy group, aralkyloxy group,
15 aryloxy group or di-substituted amino group, and two Xs may bond
mutually to form a ring; D represents a neutral ligand coordinated
on M; and n represents an integer of from 0 to 2.),

(B) Organic aluminum compound and/or aluminoxane,

(C) Specific boron compound.



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