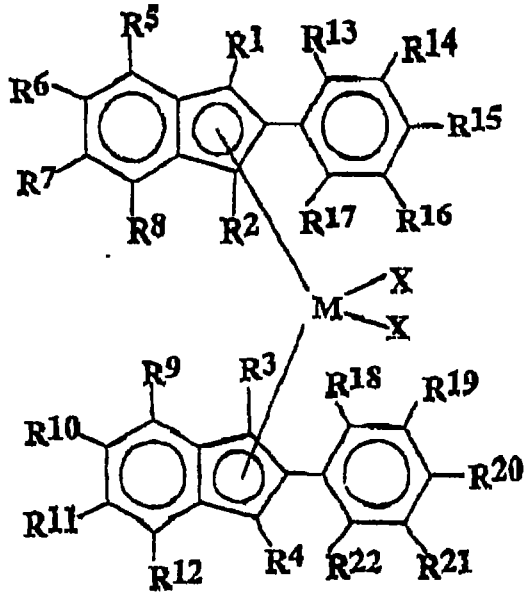
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ABSTRACT

A catalyst for stereoregular polymerization of α-olefins obtained by a process comprising contacting modified particles (A) obtained by contacting dried particles (a) with an organometallic compound (b), then with a compound (c) having a functional group containing an active hydrogen or non-proton donative Lewis basic functional group, and an electron withdrawing group, with a transition metal compound (B) having an α-olefin stereoregular polymerization ability and an organometallic compound (C), and a process for producing a stereoregular α-olefin polymer which comprises polymerizing α-olefin with said catalyst, wherein the transition metal compound (B) is a transition metal compound represented by the general formula below:



(II)

wherein, each of R^1 to R^{22} independently represents a hydrogen atom, halogen atom, alkyl group, aryl group,

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aralkyl group or substituted silyl group, and R^1 to R^{22} may be the same or different, and any adjacent two moieties of R^1 to R^{22} on the same ring may form a ring having 5 to 8 carbon atoms, M represents a transition metal atom of group IV in the periodic table of element, and X represents a hydrogen atom, halogen atom, alkyl group, aryl group, aralkyl group or alkoxy group, and two Xs may be the same or different.