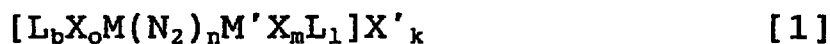


ABSTRACT

CATALYST COMPONENT AND CATALYST FOR ADDITION POLYMERIZATION,
AND PROCESS FOR PRODUCING ADDITION POLYMER

A catalyst component for addition polymerization composed of a transition metal compound (A) of the following general formula [1]:



(wherein M and M' represent a transition metal atom of III to X group; X represents hydrogen, a halogen, alkyl, aralkyl, aryl, substituted silyl, alkoxy, aralkyloxy, aryloxy, di-substituted amino, azido group, cyano group, isothiocyanate group or group having a cyclopentadiene type anion skeleton; L represents a group which bonds to M or M' by a lone paired electron or a π electron; X' represents a counter anion; k, l, m, o and p represent an integer of 0 to 5; and n represents an integer of 1 to 3, respectively.), a catalyst for addition polymerization obtained by using the transition metal compound, and a process for producing an addition polymerization using the catalyst. (Figure 1)