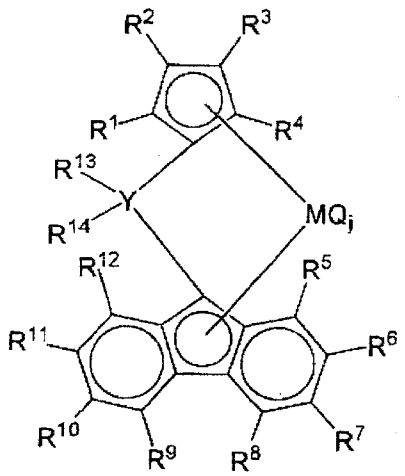
CATALYST FOR OLEFIN POLYMERIZATION, METHOD FOR PRODUCING OLEFIN POLYMER, METHOD FOR PRODUCING PROPYLENE-BASED COPOLYMER, PROPYLENE POLYMER, PROPYLENE-BASED POLYMER COMPOSITION, AND USE OF THOSE

ABSTRACT

A catalyst for olefin polymerization, comprising:

(A-1) a bridged metallocene compound represented by the following Formula [1-1], and (b) at least one compound selected from: (b-1) an organoaluminum oxy compound, (b-2) a compound which forms an ion pair, and (b-3) an organoaluminum compound:



· · · [1-1]

wherein in Formula [1-1], R^1, R^2, R^3, R^4, R^5, R^8, R^9, and R^{12} are each selected from a hydrogen, a hydrocarbon group and a silicon-containing group; the four groups of R^6, R^7, R^{10}, and R^{11} are not hydrogen atoms, and are each selected from a hydrocarbon group or a silicon-containing group; R^{13} and R^{14} are each a hydrocarbon group or the like, excluding a hydrogen atom and a methyl group; M is Ti, Zr or the like; Y is carbon or the like; Q is a halogen or the like; and j is an integer from 1 to 4.

(no suitable figure)