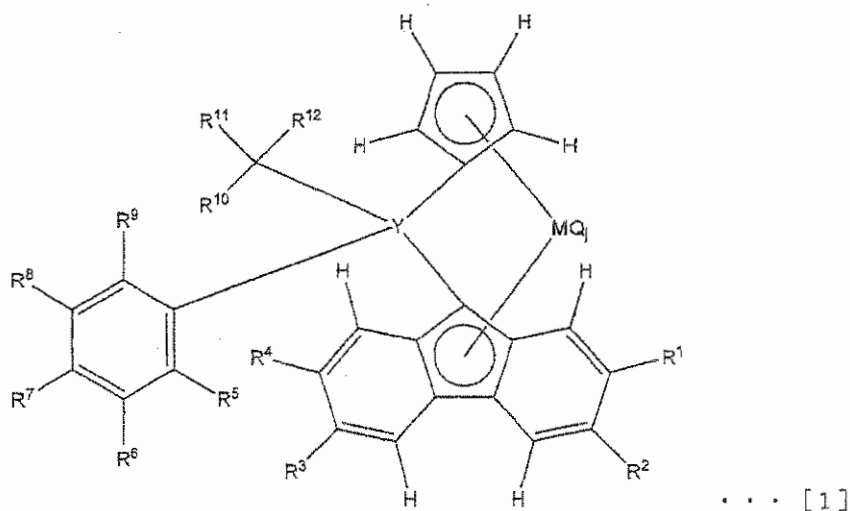


METHOD FOR PRODUCING OLEFIN POLYMER

ABSTRACT

[Object] There is provided a method which enables an
 5 olefin polymer having high melting point and high molecular
 weight to be produced even at high temperature proper in an
 industrial production process. [Solution] A method for
 producing an olefin polymer is provided, the method including
 polymerizing an olefin having two or more carbon atoms in the
 10 presence of a catalyst for olefin polymerization, wherein the
 catalyst for olefin polymerization includes (A) a bridged
 metallocene compound represented by Formula [1] and (B) at
 least one compound selected from, for example, an
 organoaluminum oxy-compound and an organoaluminum compound:



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[where R¹ to R⁴ each represent, for example, a hydrocarbon
 group; R⁵ to R⁹ each represent, for example, a hydrogen atom

or a halogen atom; R^{10} and R^{11} each represent, for example, a hydrogen atom; and R^{12} represents, for example, a hydrocarbon group. Y represents, for example, a carbon atom. M represents, for example, Zr; Y represents, for example, a carbon atom; and Q represents, for example, a halogen atom. j is an integer from 1 to 4].

(Fig. 1)