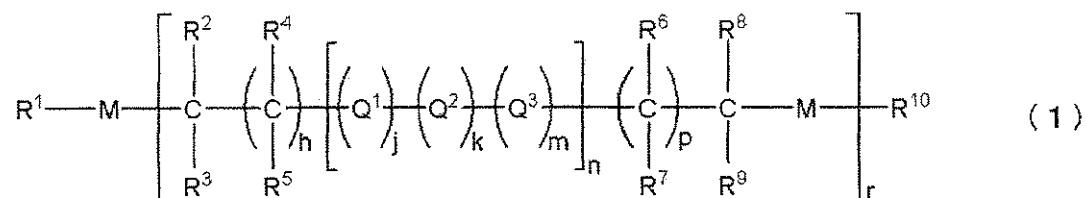


ABSTRACT

It is an object of the present invention to provide a novel organometallic compound functioning usefully as a chain transfer agent and the like in polymerization reaction of a double-bond containing compound. The present invention provides an organometallic compound represented by the following general formula (1) and a production method thereof.

[Chem. 1]



(in the general formula (1), M is a magnesium atom, a zinc atom, an Al-R¹¹ group, or a Ga-R¹¹ group; R¹ and R¹⁰ are each independently a hydrocarbon group having 1 to 20 carbon atoms, or R¹ and R¹⁰ may be united with each other to form a divalent connecting group (R¹⁰¹) having 4 or more carbon atoms and thus form a ring; R² to R⁹ are each independently a hydrogen atom, or a hydrocarbon group having 1 to 20 carbon atoms; Q¹ and Q³ are each independently a divalent hydrocarbon group; Q² is a divalent connecting group containing a linkage by a heteroatom excluding carbon; h, j, k, m, and p are each independently 0 or 1; n is an integer of 0 to 10; and r is an integer of 0 to 1000.