

MODIFIED CONJUGATED DIENE POLYMER AND METHOD FOR PRODUCING SAME

Abstract

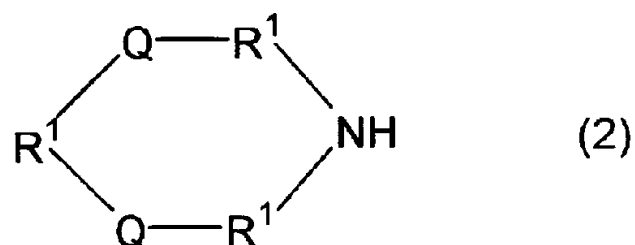
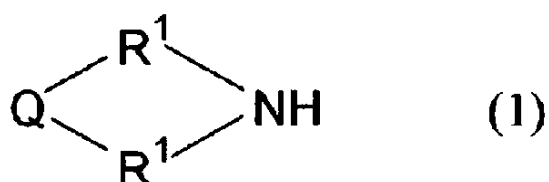
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A method for producing a modified conjugated diene polymer which can be used as a raw material of a cross-linked polymer used for use in automobile tires and the like, in order to enhance low fuel consumption performance is provided.

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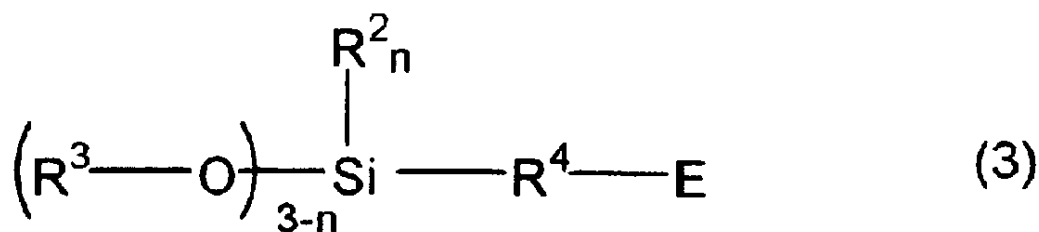
A method for producing a modified conjugated diene polymer comprising a step of polymerizing a monomer comprising a conjugated diene compound and the like in the presence of a compound represented by the following formula (1) or (2) and an alkali metal compound to obtain a conjugated diene polymer, and a step of reacting the conjugated diene polymer and a compound represented by the following formula (3) to obtain a modified conjugated diene polymer.

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(In the formulae, R^1 is a hydrocarbylene group. Q is, for example, $-\text{N}(-\text{A}^1)-$. A^1 is a hydrocarbyl group which has no active hydrogen atom and may be substituted with an atom such as N.)



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(In the formula, E is, for example, a functional group which has no active hydrogen atom and is bound by an atom of N to R^4 . R^2 and R^3 are hydrocarbyl groups. R^4 is a hydrocarbylene group. n is an integer of 0 to 2.)