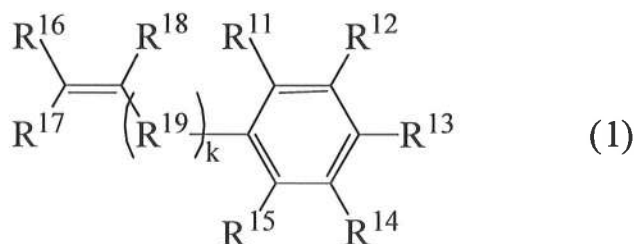


## ABSTRACT

PROCESS FOR PRODUCING MODIFIED CONJUGATED DIENE-BASED  
 POLYMER, MODIFIED CONJUGATED DIENE-BASED POLYMER, AND  
 POLYMER COMPOSITION

An object of the present invention is to provide a process for  
 producing a modified conjugated diene-based polymer suitable for preparing  
 a polymer composition excellent in the fuel cost saving effect. The present  
 invention provides a process for producing a modified conjugated  
 diene-based polymer, comprising reacting a conjugated diene-based polymer  
 having a monomer unit based on a conjugated diene compound and a  
 monomer unit based on a compound represented by the following formula (1),  
 with an organometallic compound, and reacting the resulting reaction  
 product with a hydrocarbyloxysilane compound:



wherein  $\text{R}^{11}$ ,  $\text{R}^{12}$ ,  $\text{R}^{13}$ ,  $\text{R}^{14}$  and  $\text{R}^{15}$  each represent a hydrogen atom or an alkyl  
 group, at least one of  $\text{R}^{11}$ ,  $\text{R}^{12}$ ,  $\text{R}^{13}$ ,  $\text{R}^{14}$  and  $\text{R}^{15}$  is an alkyl group,  $\text{R}^{16}$ ,  $\text{R}^{17}$  and  
 $\text{R}^{18}$  each represent a hydrogen atom or a hydrocarbyl group,  $\text{R}^{19}$  represents a  
 hydrocarbylene group, and  $k$  represents 0 or 1.