

# Abstract

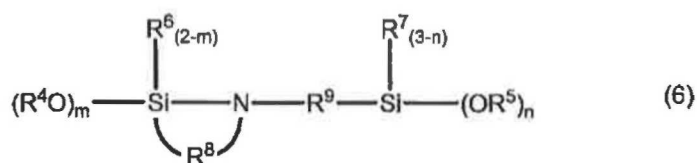
METHOD FOR PRODUCING MODIFIED CONJUGATED DIENE-BASED POLYMER, MODIFIED CONJUGATED DIENE-BASED POLYMER, MODIFIED CONJUGATED DIENE-BASED POLYMER COMPOSITION, RUBBER COMPOSITION AND TIRE

A method for producing a modified conjugated diene-based polymer including

a polymerization step of obtaining a conjugated diene-based polymer having an active end by use of a polymerization initiator containing a compound having at least one nitrogen atom in a molecule and an organic lithium compound; and

a modification step of reacting a modifier represented by the following chemical formula (6) with the active end of the conjugated diene-based polymer:

[Formula 1]



wherein  $\text{R}^4$  to  $\text{R}^7$  each independently represent an alkyl group having 1 to 20 carbon atoms or an aryl group having 6 to 20 carbon atoms;  $\text{R}^8$  represents an alkylene group having 3 to 10 carbon atoms;  $\text{R}^9$  represents an alkylene group having 1 to 20 carbon atoms;  $m$  is an integer of 1 or 2; and  $n$  is an integer of 2 or 3.