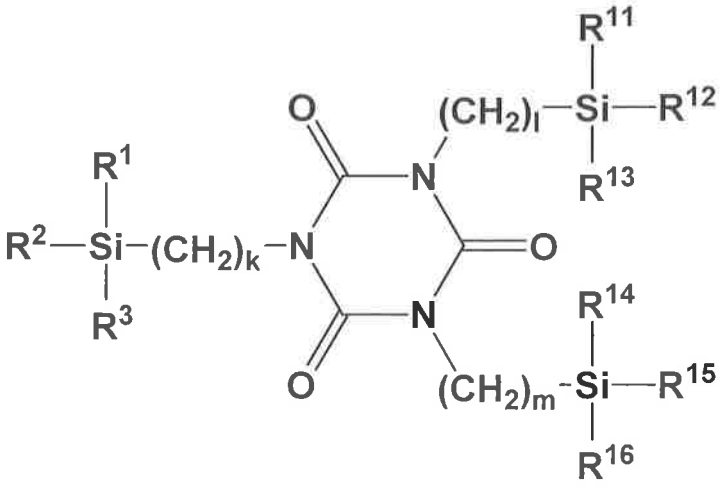
DIENE-BASED POLYMER MODIFIED IN TWO STEPS WITH A COMPOUND COMPRISING A CARBONYL GROUP AND AMINO GROUP AND A SILYL-COMPRISING ISOCYANURATE AND A VULCANIZED POLYMER THEREOF

Abstract

A method for producing a modified conjugated diene-based polymer, wherein the method comprises: a first step of producing a conjugated diene-based polymer by polymerizing monomers comprising a conjugated diene compound in a hydrocarbon solvent using an organoalkali metal compound and a second step of adding first a compound having a carbonyl group and a substituted amino group and then a compound represented by Formula (II-A) to a hydrocarbon solvent containing the conjugated diene-based polymer. Also provided is a method for producing a vulcanized polymer, the method comprising heating a vulcanizable polymer produced by the method described above.



(II-A)

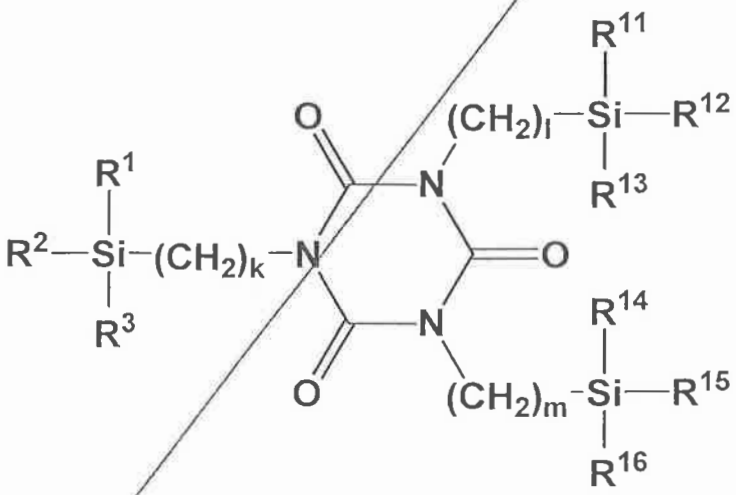
Abstract

METHOD FOR PRODUCING MODIFIED CONJUGATED DIENE-BASED POLYMER, AND METHOD FOR PRODUCING VULCANIZED POLYMER

A method for producing a modified conjugated diene-based polymer, wherein the method comprises:

a first step of producing a conjugated diene-based polymer by polymerizing monomers comprising a conjugated diene compound in a hydrocarbon solvent using an organoalkali metal compound and

a second step of adding (I) a compound having a carbonyl group and a substituted amino group and (II) a compound represented by Formula (II-A) to a hydrocarbon solvent containing the conjugated diene-based polymer.



(II-A)