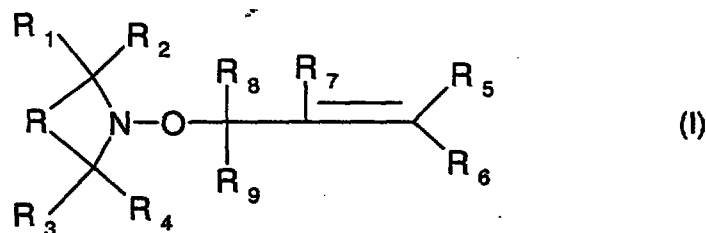


Abstract

Preparation of Sterically Hindered Amine Ethers

A new process is described for the preparation of a compound of the formula I

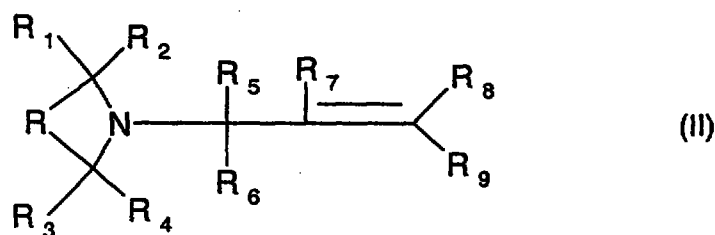


wherein

R₁, R₂, R₃ and R₄, independently of each other, are C₁-C₈alkyl or C₁-C₅hydroxyalkyl, or R₁ and R₂ together with the carbon atom they are attached to are C₅-C₁₂cycloalkyl, or R₃ and R₄ together with the carbon atom they are attached to are C₅-C₁₂cycloalkyl;

R₅, R₆, R₇, R₈ and R₉, independently of each other, are H, C₁-C₈alkyl, C₂-C₈alkenyl, C₅-C₁₂aryl, C₁-C₄haloalkyl, an electron withdrawing group, or C₆-C₁₂aryl which is substituted by a residue selected from C₁-C₄alkyl, C₁-C₄alkoxy, halogen; and R₇ and R₈ together may also form a chemical bond; and

R is an organic linking group containing 2-500 carbon atoms and forming, together with the carbon atoms it is directly connected to and the nitrogen atom, a substituted, 5-, 6 or 7-membered cyclic ring structure; characterized in that a compound of the formula II



is oxidized. The compound of the formula I can be hydrogenated and/or halogenated by conventional methods.

Compounds of the formula I and the corresponding hydrogenated and/or halogenated compounds are well suitable as stabilizers for organic material against degradation by light, oxygen and/or heat or yellowing; some are also active as flame retardants.