



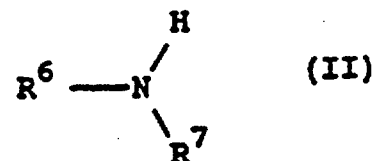
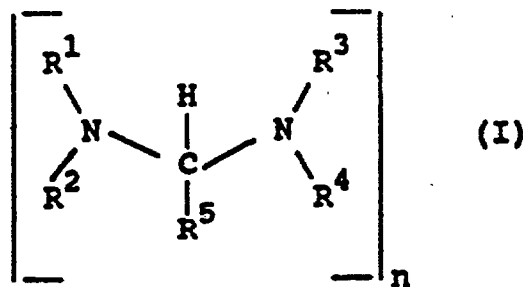
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(54) Title: **METHODS FOR REGENERATING A SULFUR SCAVENGING COMPOUND FROM A PRODUCT OF A SULFUR SCAVENGING REACTION**

(57) Abstract

Methods are provided whereby an N-C-N compound is regenerated from a product of a sulfur scavenging reaction, in which said N-C-N compound removes a sulfur atom from a sulfur compound, to form the original N-C-N compound. The N-C-N compound is represented by formula (I). The product includes a hetero compound having sulfur, carbon and nitrogen atoms in its backbone. In one embodiment, the product is mixed with (1) a nitrogen compound represented by formula (II) and (2) an alkaline compound selected from alkali metal, alkaline earth metal and transition metal compounds, to form a solution, slurry or dispersion. The hetero compound is reacted with the nitrogen compound in the presence of the alkaline compound, such that a sulfur atom of the hetero compound is replaced by a nitrogen atom of the nitrogen compound. If necessary, the pH of the solution may be adjusted to about 8 to about 13 to facilitate the reaction. In alternative embodiments, the product also includes an amine complex. The nitrogen atom being substituted for the sulfur atom in the hetero compound may be obtained from either the nitrogen compound or the amine complex.



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