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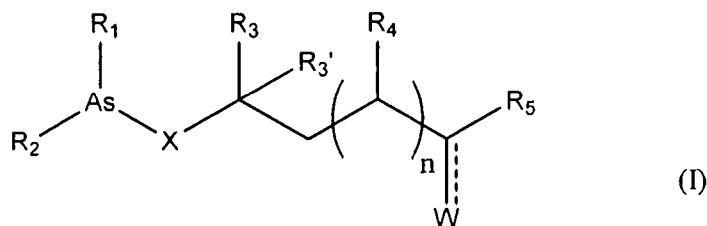
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(54) Title: ORGANOARSENIC COMPOUNDS AND METHODS FOR THE TREATMENT OF CANCER



(57) Abstract: A method for treating a lymphoma selected from non-Hodgkin's and Hodgkin's lymphoma comprising administering an organoarsenic compound having a structure of the formula (I) wherein X is S or Se and R₁ and R₂ are independently C₁₋₃₀alkyl (R₃, R_{3'}, R₄, R₅, W and "n" are as defined in claim 1) in particular where the compound is S-dimethylarsinoglutathione, N-(2-S-dimethylarsinothiopropionyl)glycine, 2-amino-3-(dimethylarsino)thio-3-methylbutanoic acid, S-dimethylarsino-thiosuccinic acid or S-dipropylarsino-1-thioglycerol.