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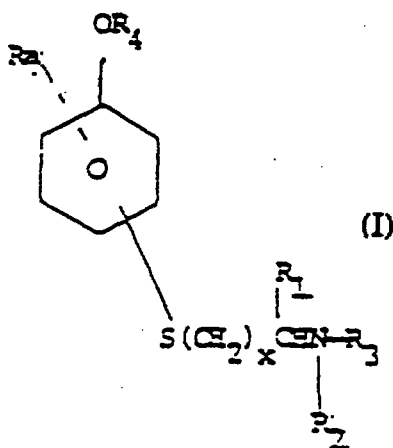
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DATE OF RECEIPT

(54) Title: RADIOIMAGING AND RADIOCHEMOTHERAPY PHENOLIC THIOETHER AMINES AND ACYL DERIVATIVES THEREOF FOR USE IN DIAGNOSING AND TREATING PIGMENTATION DISORDERS



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**(57) Abstract**

Hydroxyphenylthioalkyl amines represented by formula (I), wherein R^1 is H or C_1-C_8 alkyl; R^2 is H or C_1-C_8 alkyl; R^3 is H, C_1-C_8 alkyl or C_1-C_8 alkanoyl; R^4 is H or C_1-C_8 alkanoyl; R_a is a radioactive material useful in radioimaging and radiochemotherapy where the dotted line (---) indicates: 1) R_a is covalently bound to the structure of formula (I); 2) R_a is ionically associated with the structure of formula (I); 3) R_a is radioactive carbon which is part of the structure of formula (I); and x is 1 to 5, with the provisos that when x is 1, one of R_1 , R_2 or R_3 is other than H, and that the sulphur containing group and the R_a group are in the 2, 4 or 6 positions of the phenyl ring, are useful in radioimaging and radiotherapy. Preferred compounds for use in radioimaging are N-acetyl-4-S-cysteaminylphenol and N-[2-[(4'-acetoxyphenyl)thio]ethyl]acetamide. The O-acylated derivatives are novel and are also useful in treatment of pigment disorders.