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United States Patent [19][11] **Patent Number:** **5,453,530****Byerley et al.**[45] **Date of Patent:** **Sep. 26, 1995**

- [54] **S-(ω -HYDROXYALKYL) ESTERS OF THIOACRYLIC AND THIOMETHACRYLIC ACIDS**
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- [52] U.S. Cl. **558/52**
- [58] **Field of Search** **558/252**

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[57] **ABSTRACT**

Compounds are described which are S-(ω -hydroxyalkyl) esters of thioacrylic and thiomethacrylic acids. The compounds have the formula:



wherein:

R is hydrogen or methyl; and

n is 1, 2 or 3.

These compounds can be used as conditioners to enhance the wettability of dentinal surfaces, can be employed as chemical tracers to characterize the wetting of dentinal surfaces, and can be copolymerized in situ to form potential dentinal bonding systems. The compounds can also be homopolymerized and copolymerized to form other useful products.

5 Claims, No Drawings