

Adolph

- [54] **2,2,2-FLUORODINITROETHANETHIOL AND METHOD OF PREPARATION**
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 [58] **Field of Search** 149/88; 260/455 R, 609 R, 260/644

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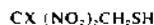
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[57] **ABSTRACT**

Novel thiols of the formula



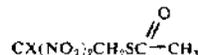
wherein X is nitro, fluoro, chloro, bromo, or lower alkyl of from 1 to 4 carbon atoms, are prepared by contacting triflates of the formula



with



to form thioacetals of the formula



which are then isolated from the reaction mixture and subjected to acid hydrolysis to form the thiols. The energy content of unsaturated propellant and explosive binders can be increased by the free radical addition of the nitro and halonitro thiols of this invention to the binders.

15 Claims, No Drawings