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(54) **Title:** SULFUR MODIFIED SILANES FOR THE ELABORATION OF HIGH REFRACTIVE INDEX MATERIALS

(57) **Abstract:** A composition having a polysulfide polysilane formed by the reaction of a polythiol and an alkenyl silane. The reactants are combined in a thiol-ene addition process driven by UV radiation or heat, preferably by UV radiation. The polysulfide polysilane is then hydrolyzed and may be combined with other hydrolyzed compounds. For coatings, the polysulfide polysilane is hydrolyzed and may optionally be combined with nanoparticles. For bulk materials, the polysulfide polysilane is hydrolyzed, concentrated and heated to form a high refractive index material which can be used to form lenses.



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