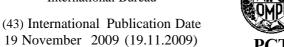
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(71) Applicant (for all designated States except US): ES-SILOR INTERNATIONAL (COMPAGNIE GEN-ERALE D'OPTIQUE) [FR/FR]; 147 rue de Paris, 94220 Charenton Ie Pont (FR).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): BITEAU, John [FR/US]; 4935 2nd avenue North, 33710 ST PETERS-BURG, FLORIDA (US). MOSSE, Herbert [US/US]; 1108 Rowland Pickert Lane, 33548 LUTZ, FLORIDA (US).
- (74) Agent: SANTARELLI; 14 avenue de Ia Grande Armee, B.P. 237, F-75822 Paris Cedex 17 (FR).
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(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.