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Deichert et al.

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[54] **POLYSILOXANE COMPOSITION AND CONTACT LENS**

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Related U.S. Application Data

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[58] **Field of Search** ..... 351/160; 260/46.56 A, 260/448.2 Q, 448.2 B, 827, 46.5 Y, 46.5 H; 26/279; 264/1, 2; 528/24, 26, 27, 32, 37

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[57] **ABSTRACT**

Monomeric polysiloxanes end-capped with activated unsaturated groups and polymers and copolymers thereof are disclosed herein for use as contact lenses with improved properties, such as, oxygen transportability, hydrolytic stability, biological inertness, transparency and improved strength without the use of fillers. The polymer composition comprises a poly(organosiloxane) α, ω terminally bonded through a divalent hydrocarbon group to a polymerized activated unsaturated group. Contact lenses made therefrom can be, as commonly referred to, "hard" or "soft". This hardness or softness is a function of the comonomer or the molecular weight of the monomers. Preferable the contact lenses are "soft".

The copolymer compositions of the instant invention comprise the polymerization product of the polysiloxane monomers and monomer or monomers containing an activated vinyl group. These polymers are employed to make optical products, e.g. contact lenses, intraocular implants, etc.

29 Claims, No Drawings