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(54) **HIGH REFRACTIVE INDEX SILICONE FOR USE IN INTRAOCULAR LENSES**

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(58) **Field of Search** 525/478; 528/31, 528/43, 32; 623/6.11, 4.1; 556/458

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(57) **ABSTRACT**

An intraocular lens made from a class of optically clear, ultraviolet (UV) light absorbing, vulcanized silicone compositions containing about 35 mole % or greater phenyl groups (C_6H_5), suitable for implanting in the human eye is disclosed. The high mole percentage of phenyl groups in the vulcanized silicone compositions provides a high refractive index (at least about 1.50) and partially blocks ultraviolet light absorption. The composition is formed by the vulcanization of a mixture which comprises, for example, the following polyorganovinylsiloxane components:

Component (I): α, ω-bis(trivinylsiloxy) oligodimethyldiphenylvinylmethylsiloxane;

Component (II): α, ω-bis(trimethylsiloxy) oligodimethyldiphenylmethylhydro-siloxane;and

Component (III): α, ω-bis(trimethylsiloxy) oligomethylphenylvinylmethylphenyl-siloxane;

together with Component (IV) a polyaddition reation catalyst, particularly a complex platinum catalyst (for example, the complex of platinum and hexavinyldisiloxane); wherein the ratio, by weight, of the mixture in the four components (I:II:III:IV respectively) in the pre-vulcanized mixture is from about 0.9:0.1:0.015:0.006 to about 0.7:0.3:0.05:0.01.

13 Claims, 1 Drawing Sheet