

[54] DEFORMABLE-ELASTIC INTRAOCULAR LENS

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[58] Field of Search 623/6; 264/1.1, 1.7

[56] References Cited

U.S. PATENT DOCUMENTS

- 4,668,446 5/1987 Kaplan et al. 623/6 X
- 4,731,079 3/1988 Stoy 623/6

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[57] ABSTRACT

A deformable-elastic intraocular lens comprising a deformable-elastic lens body of crosslinked acrylic material formed of copolymers of methacrylate and acrylate esters which are relatively hard and relatively soft at body temperature, crosslinked with a diacrylate ester to produce an acrylic copolymer having a substantially tack-free surface, a crosslink density of between 0.5×10^{-2} and 1.5×10^{-2} moles per liter, and glass transition temperature in the range of -30°C. to 25°C. , a tensile modulus between 1000 and 3000 psi and a elongation a break of 100% or greater.

21 Claims, 3 Drawing Sheets

