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O'Donnell, Jr.

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[54] **IN VIVO MODIFICATION OF REFRACTIVE POWER OF AN INTRAOCULAR LENS IMPLANT**

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Related U.S. Application Data

[63] Continuation of Ser. No. 100,138, Aug. 2, 1993, Pat. No. 5,549,668, which is a continuation of Ser. No. 950,224, Sep. 24, 1992, Pat. No. 5,288,293.

- [51] Int. Cl.⁶ **A61F 2/16**
- [52] U.S. Cl. **623/6; 606/3; 606/4**
- [58] Field of Search **623/6; 606/3, 4**

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[57] ABSTRACT

A method for changing the refractive power (spherical and astigmatism) of an intraocular implant of the type having a lens, either formed of a series of laminates of material, or having a lens that is coated with material, said material, when subject to laser energy providing for its expansion or contraction, and thereby varying the curvature of the lens, and hence, effecting an increase or decrease in its relative refractive index or power. The direction at which the laser energy is applied to the lens can effect the relative change in the refractive power of the lens. A modification provides haptics diametrically or concentrically extending from the optic lens, with a segment of material such as hydrogel or collagen at the juncture between the haptics and the lens, which when directionally exposed to laser energy, can cause an increase or decrease in the relative refractive power of the implanted lens.

1 Claim, 1 Drawing Sheet

