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# United States Patent [19]

Zhou

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[54] **METHOD FOR RAPID IMPLANTATION OF SHAPE TRANSFORMABLE OPTICAL LENSES**

[75] Inventor: **Stephen Q. Zhou**, Hacienda Heights, Calif.

[73] Assignee: **Kabi Pharmacia Ophthalmics, Inc.**, Monrovia, Calif.

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**Related U.S. Application Data**

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[51] **Int. Cl.**[6] ..... **A61F 2/16**

[52] **U.S. Cl.** ..... **623/6**; 606/107

[58] **Field of Search** ..... 623/6; 606/107

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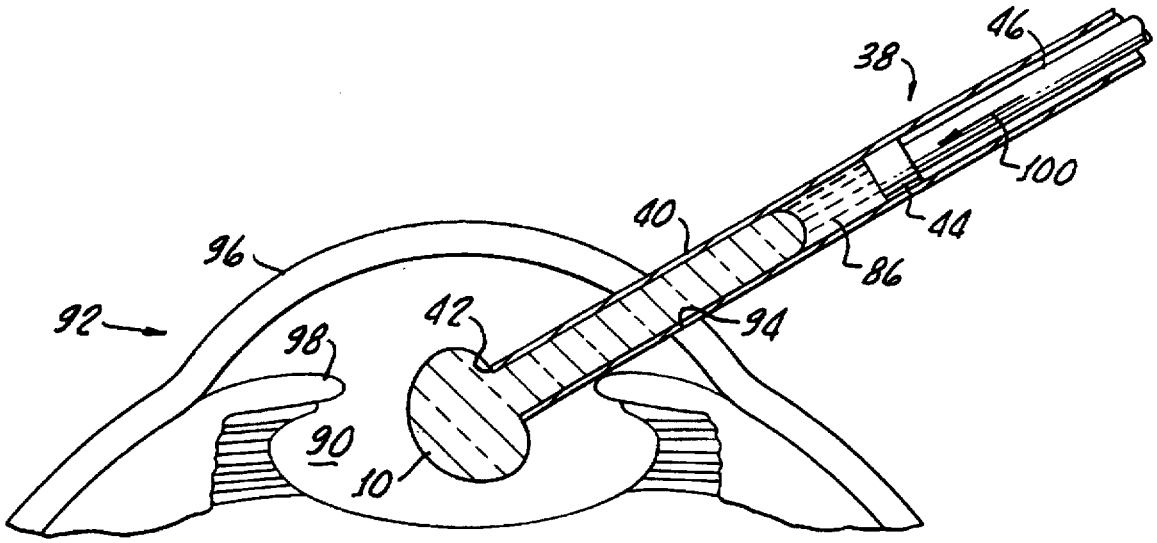
*Primary Examiner*—Mary Beth Jones

[57] **ABSTRACT**

A shape transformable medical implant or optical lens capable of substantial recoverable deformation in all dimensions is rapidly inserted and positioned into a target site such as an eye through an ejector having a small diameter, elongate, generally tubular outlet. The medical implant or optical lens is formed of a material having an elongation at break greater than 100% facilitating its ejection into the eye through a tubular outlet having an inner diameter of 3 mm or less. The ejector is provided with a precisely pressurizable chamber for the controlled displacement of the medical implant or optical lens through the small diameter, elongate, generally tubular outlet.

**26 Claims, 4 Drawing Sheets**