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Bumbalough

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(54) **INTRAOCULAR LENS HAVING A HAPTIC THAT INCLUDES A CAP**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 381 days.

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(51) **Int. Cl.**
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See application file for complete search history.

(57) **ABSTRACT**

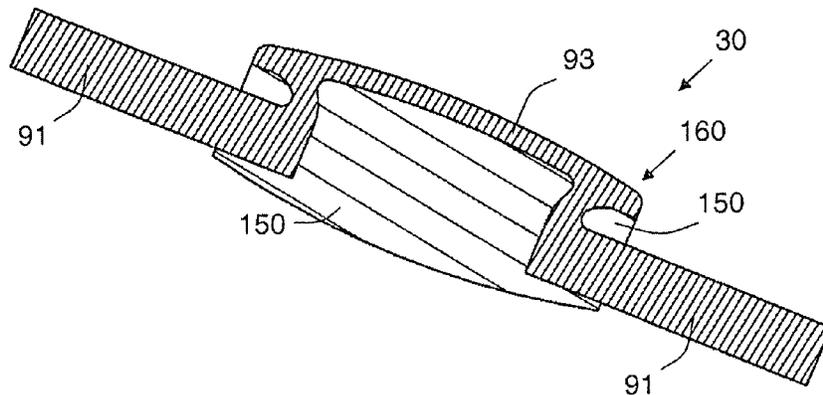
An intraocular lens is disclosed, with an adjustable optic that changes shape in response to a deforming force exerted by the zonules of the eye. A haptic supports the optic around its equator and couples the optic to the capsular bag of the eye. The haptic may include a cap on the anterior and/or posterior surfaces of the lens. The lens may include a force transfer member, such as a hinge, that couples forces from the haptic to the cap, so that a radial force on the haptic changes the curvature of the cap. The haptic and optic may be refractive index-matched. The cap may be made of the haptic material, which is stiffer than the optic material, and can influence the deformation of the lens during accommodation. A cap on the anterior surface may produce an axial movement of the lens in an anterior direction during accommodation. The cap may also protect the surfaces of the optic during handling and installation. The posterior surface of the lens may be shaped so that it does not significantly offset the contributions of the anterior surface during accommodation.

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41 Claims, 19 Drawing Sheets



SECTION B-B