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Yee

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(54) **ACCOMMODATING INTRAOCULAR LENS SYSTEM**

(76) Inventor: **Kingman Yee**, 1913 Fumia Pl., San Jose, CA (US) 95131

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See application file for complete search history.

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Primary Examiner—Paul Prebilib

Assistant Examiner—Tiffany Shipmon

(74) *Attorney, Agent, or Firm*—Pinnacle Patent Law Group

(57) **ABSTRACT**

An accommodating intraocular lens system for implantation in a capsular bag of an eye includes an optic component comprising first and second light-transmitting lens elements that define a fluid-filled deformation chamber located between the first and second lens elements. The first and/or second lens elements have an elastic membrane adapted to deform in response to a change in pressure. The elastic membrane includes a first portion having a first deformation response and a second portion having a different second deformation response. The system also includes a refractive fluid filling the deformation chamber and at least one haptic member coupled to the optic component. The haptic member is configured for changing a hydrostatic pressure in the deformation chamber in response to muscle movement in the eye in order to deform the elastic membrane of the first and/or second lens elements, thereby changing the shape and the refractive characteristics of the optic component.

11 Claims, 6 Drawing Sheets

