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(12) **United States Patent  
Clarke**

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(54) **ACCOMMODATING INTRAOCULAR LENS**

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(Continued)

(21) Appl. No.: **13/134,790**

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(65) **Prior Publication Data**

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**Related U.S. Application Data**

Okihiro Nishi et al., Capsular bag refilling using a new accommodating intraocular lens, J Cataract Refract Surg, Feb. 2008, 8 pages, vol. 34, Elsevier Inc.

(62) Division of application No. 11/185,279, filed on Jul. 19, 2005, now Pat. No. 8,038,711.

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(51) **Int. Cl.**  
**A61F 2/16** (2006.01)

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(52) **U.S. Cl.**  
USPC ..... **623/6.43**

(57) **ABSTRACT**

(58) **Field of Classification Search**  
USPC ..... 623/6.11, 6.13, 6.37–6.41, 23.64–23.65;  
606/191; 600/37; 128/898  
See application file for complete search history.

An accommodating intraocular lens, for use in an eye, is made from flexible, optionally elastic, bio-compatible lens body material surrounding a closed and sealed lens cavity. One or more compressible struts is in the cavity. The cavity is filled with bio-compatible optical liquid. The optical liquid has a refractive index sufficiently high to, in cooperation with the ciliary muscle and the compressible strut, focus light, incident on the eye, on the retina, thus to provide accommodation. The curvature of the surface of the lens is deformable, by the forces expressed by the ciliary body and the strut, thus to change the radius of curvature of the anterior body member and/or the posterior body member, thus providing focusing, including from relatively farther distance in the relaxed state to relatively nearer distance in the accommodative state.

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**18 Claims, 7 Drawing Sheets**

