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(54) **ACCOMMODATING INTRAOCULAR LENS SYSTEM WITH ABERRATION-ENHANCED PERFORMANCE**

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Related U.S. Application Data

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(60) Provisional application No. 60/337,343, filed on Nov. 9, 2001, provisional application No. 60/283,856, filed on Apr. 13, 2001, provisional application No. 60/264,179, filed on Jan. 25, 2001, provisional application No. 60/563,238, filed on Apr. 16, 2004.

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A61F 2/16 (2006.01)

(52) **U.S. Cl.** **623/6.34; 623/6.37**

(58) **Field of Classification Search** 623/6.32-6.37
See application file for complete search history.

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(57) **ABSTRACT**

An accommodating intraocular lens implantable in an eye. The lens comprises an anterior portion having an anterior biasing element and an anterior optic having refractive power. The lens further comprises a posterior portion having a posterior biasing element and a posterior optic having refractive power. The anterior optic and the posterior optic are relatively moveable in response to action of the ciliary muscle to change the separation between the optics and the refractive power of the lens. The lens has an aberration-inducing force characteristic of about 70 mg to about 115 mg to allow aberration-inducing relative movement of the optics when the lens is in the eye, thereby adding optical aberration to the lens which increases depth of focus of the lens. In one variation, the lens has an aberration-inducing force characteristic of 70 mg to 115 mg. Related methods are also disclosed.

35 Claims, 45 Drawing Sheets

