

(12) **United States Patent**  
**Mentak et al.**

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- (54) **INTERFACIAL REFRACTION ACCOMMODATING LENS (IRAL)**
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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 167 days.

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**Related U.S. Application Data**

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- (60) Provisional application No. 60/887,933, filed on Feb. 2, 2007, provisional application No. 60/887,928, filed on Feb. 2, 2007.

- (51) **Int. Cl.**  
**A61F 2/16** (2006.01)
- (52) **U.S. Cl.** ..... **623/6.13**; 623/6.34; 623/6.37
- (58) **Field of Classification Search** ..... 623/4.1, 623/6.11, 6.13
- See application file for complete search history.

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(57) **ABSTRACT**

This invention relates to intraocular lenses. More particularly, this invention relates to intraocular lenses that have the ability to alter the light refractive power in response to changes in the tension of the ciliary muscle or ciliary body of the eye or any other accommodative forces. Lenses of this invention are generally referred to as interfacial, i.e., lens properties being defined as the interface of two liquids having different refractive indices, refractive accommodating lenses (IRAL).

**13 Claims, 21 Drawing Sheets**

