

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

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(54) **ACCOMMODATING INTRAOCULAR LENS ASSEMBLY**

USPC 623/6.13, 6.22, 6.34
See application file for complete search history.

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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 0 days.

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Related U.S. Application Data

(57) **ABSTRACT**

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An accommodating intraocular lens (AIOL) assembly (10) including an optics assembly (12) including an inflatable member (14), and characterized by an extra-capsular-bag interface structure (16) for interfacing with ocular structure of an eye external to a capsular bag for implanting the AIOL (10) outside the capsular bag, the extra-capsular-bag interface structure (16) including a less-rigid portion (18) and a more-rigid portion (20) that define a volume therebetween which is at least partially filled with a fluid (22) and which is in fluid communication with the inflatable member (14) via at least one conduit (24), and wherein the less-rigid portion (18) is responsive to movement of the ocular structure to apply a pumping force on the fluid (22) to cause the fluid (22) to flow via the at least one conduit (24) to the inflatable member (14) so as to change the optical power of the optics assembly (12).

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A61F 2/16 (2006.01)

(52) **U.S. Cl.**
CPC **A61F 2/1624** (2013.01); **A61F 2/1602** (2013.01); **A61F 2/1613** (2013.01); **A61F 2250/0008** (2013.01); **A61F 2/1635** (2013.01)

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