



US008771348B2

(12) **United States Patent**  
**Zhao**

(10) **Patent No.:** **US 8,771,348 B2**  
(45) **Date of Patent:** **Jul. 8, 2014**

(54) **MULTIFOCAL INTRAOCULAR LENS**

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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 641 days.

(21) Appl. No.: **12/254,677**

(22) Filed: **Oct. 20, 2008**

(65) **Prior Publication Data**  
US 2010/0100177 A1 Apr. 22, 2010

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

(52) **U.S. Cl.**  
USPC ..... **623/6.3**; 623/6.31; 351/159.11

(58) **Field of Classification Search**  
USPC ..... 623/6.27–6.31, 6.23–6.24; 351/159.11  
See application file for complete search history.

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(57) **ABSTRACT**

The invention provides an IOL, a method of making the IOL, and a method of using the IOL, wherein the IOL includes a central region and an outer region. An ophthalmic lens comprises a central region and an outer region. The central region is disposed about an optical axis and comprises a diffractive pattern having an add power. The central region also has a first power and a second power for visible light. The first power is a power for far focus and the second power equals to the sum of the power for far focus and the add power. The outer region encloses the central region and generally has no multifocal diffractive power. At least a portion of the outer region has a curvature that varies with distance from the optical axis. The outer region may include a peripheral region and at least one intermediate region that encloses the central region, wherein the peripheral region encloses the at least one intermediate region and the at least one intermediate region provides at least one intermediate power that is different from the first power and the second power.

**16 Claims, 6 Drawing Sheets**

