

(12) **United States Patent**
Wortz

(10) **Patent No.:** **US 9,439,754 B2**
(45) **Date of Patent:** **Sep. 13, 2016**

(54) **PROSTHETIC CAPSULAR BAG AND METHOD OF INSERTING THE SAME**

(71) Applicant: **Omega Ophthalmics LLC**, Lexington, KY (US)

(72) Inventor: **Gary N. Wortz**, Lexington, KY (US)

(73) Assignee: **Omega Ophthalmics LLC**, Lexington, KY (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **14/608,654**

(22) Filed: **Jan. 29, 2015**

(65) **Prior Publication Data**

US 2015/0142106 A1 May 21, 2015

Related U.S. Application Data

(63) Continuation of application No. 14/551,544, filed on Nov. 24, 2014, which is a continuation of application No. 13/402,398, filed on Feb. 22, 2012, now Pat. No. 8,900,300.

(51) **Int. Cl.**
A61F 2/14 (2006.01)
A61F 2/16 (2006.01)

(52) **U.S. Cl.**
CPC *A61F 2/14* (2013.01); *A61F 2/1648* (2013.01); *A61F 2/1694* (2013.01); *A61F 2/16* (2013.01); *A61F 2/1662* (2013.01)

(58) **Field of Classification Search**
CPC *A61F 2/14*; *A61F 2/16*; *A61F 2/16015*; *A61F 2/1694*; *A61F 2/1662*; *A61F 2/1648*; *A61F 2002/16901*; *A61F 2002/16902*
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,073,014 A	2/1978	Poler
4,435,856 A	3/1984	L'Esperance
4,629,461 A	12/1986	Clayman et al.
4,685,921 A	8/1987	Peyman
4,731,078 A	3/1988	Stoy et al.
4,888,012 A	12/1989	Horn et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP	0 337 390	10/1989
EP	0 294 039	7/1993

(Continued)

OTHER PUBLICATIONS

Positive Phase I/II Interim Data of Bimatoprost Sustained-Release Implant for IOP Therapy in Glaucoma, Nov. 16, 2015, <http://www.allergan.com/NEWS/News/Thomson-Reuters/Positive-Phase-I-II-Interim-Data-of-Bimatoprost-Su>.

(Continued)

Primary Examiner — David Isabella
Assistant Examiner — Dinah Baria
(74) *Attorney, Agent, or Firm* — Knobbe Martens Olson & Bear, LLP

(57) **ABSTRACT**

The present invention relates to a prosthetic capsular bag and method for inserting the same. The prosthetic capsular bag helps to maintain the volume of the natural capsular bag, thereby stabilizing the effective lens position of an IOL so that refractive outcomes may be improved with cataract surgery. The prosthetic capsular bag further provides an integrated refractive surface, providing a means for experimentally determining an effective lens position prior to inserting an IOL.

19 Claims, 8 Drawing Sheets

