

[54] **INTRAOCULAR-EXTERNAL LENS COMBINATION SYSTEM AND METHOD OF USING SAME**

[76] **Inventors:** Anthony Donn, 635 W. 165th St., New York, N.Y. 10032; Charles J. Koester, 60 Kent Rd., Glen Rock, N.J. 07452

[*] **Notice:** The portion of the term of this patent subsequent to Dec. 8, 2004 has been disclaimed.

[21] **Appl. No.:** 432,852

[22] **Filed:** Nov. 7, 1989

Related U.S. Application Data

[63] Continuation of Ser. No. 289,459, Dec. 22, 1988, abandoned, which is a continuation of Ser. No. 218,820, Jul. 12, 1988, abandoned, which is a continuation of Ser. No. 109,165, Oct. 16, 1987, abandoned, which is a continuation of Ser. No. 316,920, Oct. 30, 1981, Pat. No. 4,710,197.

[51] **Int. Cl.⁵** A61F 2/16

[52] **U.S. Cl.** 623/6; 351/160 R

[58] **Field of Search** 623/6; 351/159, 160 R

[56] **References Cited**

U.S. PATENT DOCUMENTS

2,078,590	4/1937	Spero .	
2,164,801	7/1939	Dittmer	351/160 R
2,834,023	5/1958	Lieb	623/6 R
3,027,803	4/1962	Filderman .	
4,010,496	3/1977	Neeffe	623/6
4,041,552	8/1977	Ganias	623/6
4,074,368	2/1978	Levy, Jr. et al.	623/6
4,092,743	6/1978	Kelman	623/6
4,159,546	7/1979	Shearing	623/6
4,244,060	1/1981	Hoffer	623/6
4,251,887	2/1981	Anis	623/6
4,435,855	3/1984	Pannu	623/6
4,710,197	12/1987	Donn et al.	623/6

FOREIGN PATENT DOCUMENTS

1103399 5/1955 France 623/6

OTHER PUBLICATIONS

“Experience with Twelve Cases of Intra-Ocular Anterior Chamber Implants for Aphakia” by J. Boberg Ans. British Journal of Ophthalmology, vol. 45, No. 1, Jan. 1961, pp. 37-43.

Choyce, “Intra-Ocular Lenses and Implants” (1964), Chapters 1 and 2.

Choyce, “History of Intraocular Implants” (1973), pp. 1113-1120.

Binkhorst, “The Optical Design of Intraocular Lens Implants” (1975), pp. 17-30.

Article by Troutman—“Artiphakia and Aniseikonia”, —American Journal of Ophthalmology, pp. 602-639, Oct. 1963.

Article by ISEN—“Feinbloom Mini-Scope Contact Lens”—Encyclopedia of Contact Lens Practice, Nov. 15, 1961.

Choyce, Peter A. 1964, “Intra-Ocular Lenses and Implants”, H. K. Lewis & Co., Ltd., London, pp. 156-161.

Primary Examiner—Ronald Frinks

Attorney, Agent, or Firm—Sandler, Greenblum & Bernstein

[57] **ABSTRACT**

An intraocular lens system including a lens having a negative-powered section for use in combination with a positive-powered external lens system. The intraocular lens is preferably positioned in the posterior chamber of the eye and is configured so as to provide maximum separation between the intraocular lens and the external lens system, thereby achieving maximum magnification and field of view. Alternatively, the refracting powers of the lens system can be reversed, thus resulting in image demagnification.

25 Claims, 7 Drawing Sheets

