



US005123905A

# United States Patent [19]

[11] Patent Number: **5,123,905**

**Kelman**

[45] Date of Patent: **Jun. 23, 1992**

## [54] INTRAOcular LENS INJECTOR

[76] Inventor: **Charles D. Kelman**, 721 Fifth Ave.,  
New York, N.Y. 10022

[21] Appl. No.: **712,357**

[22] Filed: **Jun. 7, 1991**

[51] Int. Cl.<sup>5</sup> ..... **A61B 17/00**

[52] U.S. Cl. .... **606/107; 606/108;**  
604/15

[58] Field of Search ..... **606/107, 108; 623/6;**  
604/15, 16, 17, 18, 311, 232, 233

### [56] References Cited

#### U.S. PATENT DOCUMENTS

668,879	2/1901	Miller	606/108 X
940,519	11/1909	Eastman	604/15
2,351,836	6/1944	Popper	604/16
2,416,642	2/1947	Popper	604/15
3,421,509	1/1969	Fiore	606/108 X
3,877,429	4/1975	Rasumoff	606/108 X

4,033,349	7/1977	Baehr	606/107
4,211,234	7/1980	Fisher	606/108 X
4,543,086	9/1985	Johnson	604/15 X
4,716,901	1/1988	Jackson et al.	606/108 X
4,836,201	6/1989	Patton et al.	606/107

*Primary Examiner*—Peter A. Aschenbrenner  
*Attorney, Agent, or Firm*—Darby & Darby

### [57] ABSTRACT

An injector head forming a hollow cone of spreadable leaves is partially inserted into a minimum size eye incision to inject a temporarily folded intraocular lens into the eye without stressing the incision. An injector device having a holder with a bore holding the lens in folded state is connected to the cone, and a plunger of the device inserted in the bore pushes the lens into and through the cone for controlled gradual injection into the eye and simultaneous controlled gradual unfolding therein.

**15 Claims, 3 Drawing Sheets**

