# United States Patent [19]

**Sheets**

[11] **4,328,595**

[45] **May 11, 1982**


[54] **INTRAOCULAR LENS**


[76] Inventor: **John H. Sheets,** 2525 Palo Verde, Odessa, Tex. 79763



[21] Appl. No.: **71,375**

[22] Filed: **Aug. 30, 1979**

[51] **Int. Cl.**[3] ..... **A61F 1/16;** A61F 1/24

[52] **U.S. Cl.** ..... **3/13**

[58] **Field of Search** ..... 3/13, 1



[56] **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| 2,834,023 | 5/1958 | Lieb | 3/13 X |
| 3,711,870 | 1/1973 | Deitrick | 3/13 |
| 3,866,249 | 2/1975 | Flom | 3/13 |
| 3,906,551 | 9/1975 | Otter | 3/13 |
| 3,913,148 | 10/1975 | Potthast | 3/13 |
| 3,922,728 | 12/1975 | Krasnov | 3/13 |
| 3,925,825 | 12/1975 | Richards et al. | 3/13 |
| 3,986,214 | 10/1976 | Krasnov | 3/13 |
| 3,991,426 | 2/1975 | Flom et al. | 3/13 |
| 3,994,027 | 11/1976 | Jensen et al. | 3/13 |
| 3,996,627 | 12/1976 | Deeq et al. | 3/13 |
| 4,010,496 | 3/1977 | Neefe | 3/13 |
| 4,014,049 | 3/1977 | Richards et al. | 3/13 |
| 4,025,965 | 5/1977 | Siegmund | 3/13 |
| 4,028,082 | 6/1977 | Krohn et al. | 3/13 |
| 4,041,552 | 8/1977 | Ganias | 3/13 |
| 4,053,953 | 10/1977 | Flom et al. | 3/13 |
| 4,056,855 | 11/1977 | Kelman | 3/13 |
| 4,073,014 | 2/1978 | Poler | 3/13 |
| 4,077,071 | 3/1978 | Freeman | 3/13 |
| 4,079,470 | 3/1970 | Deeg et al. . | |
| 4,085,467 | 4/1978 | Rainin et al. | 3/13 |
| 4,110,848 | 9/1978 | Jensen | 3/13 |
| 4,118,808 | 10/1978 | Poler | 3/13 |
| 4,122,556 | 10/1978 | Poler | 3/13 |
| 4,124,905 | 11/1978 | Clark | 3/13 |
| 4,127,903 | 12/1978 | Schachar | 3/13 |
| 4,134,160 | 1/1979 | Bayers | 3/13 |
| 4,134,161 | 1/1979 | Bayers | 3/13 |
| 4,139,915 | 2/1979 | Richards et al. | 3/13 |
| 4,143,427 | 3/1979 | Annis . | |
| 4,149,279 | 4/1979 | Poler | 3/13 |
| 4,159,546 | 7/1979 | Shearing | 3/13 |
| 4,174,543 | 11/1979 | Kelman | 3/13 |
| 4,873,015 | 2/1978 | Peyman et al. | 3/13 |

FOREIGN PATENT DOCUMENTS

| | | | |
|---|---|---|---|
| 959314 | 3/1957 | Fed. Rep. of Germany . | |
| 2607462 | 12/1976 | Fed. Rep. of Germany . | |
| 2717706 | 10/1978 | Fed. Rep. of Germany | 3/13 |
| 2239234 | 2/1975 | France . | |
| 2313010 | 12/1976 | France . | |
| 148232 | 7/1971 | Netherlands . | |
| 810232 | 3/1959 | United Kingdom . | |
| 563174 | 7/1977 | U.S.S.R. | 3/13 |

OTHER PUBLICATIONS

Covered Bridge An Update on Lens Implantation by John H. Sheets, M.D. or Bridge over Troubled Waters (3rd Attempt) (Book) 1977, pp. 5–13.

Shepard, The Intraocular Lens Manual.

Nordlohne, The Intraocular Implant Lens Development and Results with Special Reference to the Binkhorst Lens (Book), The Williams & Wilkins Co., Baltimore, 1975.



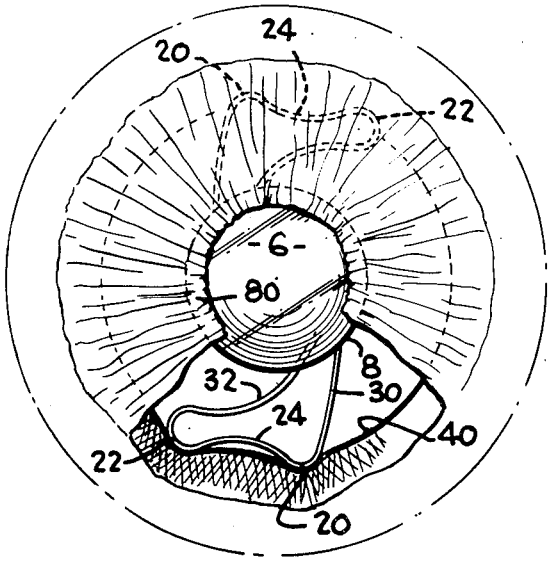
*Primary Examiner*—Ronald L. Frinks

*Attorney, Agent, or Firm*—Mason, Fenwick & Lawrence



[57] **ABSTRACT**

An intraocular lens assembly for positioning in the posterior chamber of the eye has a plastic lens body supported in the eye by first and second flexible spring-like resilient support loops of circular cross-section extending symmetrically from opposite sides of the peripheral edge of the lens body; the outer end of each support loop is received in and biased against the equatorial region of the lens capsule of the eye from which the natural lens has been removed and has first and second outwardly protruding arcuate contact feet engaging the capsule and separated by an inwardly extending arcuate connector portion with first and second support legs extending from the opposite ends of the contact feet to chordal openings in the periphery of the lens body in which the inner ends of the support legs are fixedly embedded.


**26 Claims, 4 Drawing Figures**