

- [54] **NEUTRAL BUOYANCY INTRAOCULAR LENS DEVICE**
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- [58] **Field of Search** 3/13, 1; 351/160

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[57] **ABSTRACT**

A neutral buoyancy intraocular lens device, adapted for implantation in a human eye and having an optical lens portion and support members attached thereto for holding the lens in place, is provided with a portion having a mean density lower than the density of the aqueous humor of the eye and a size large enough to decrease the mean density of the entire device to substantially the same as the aqueous humor of the eye to produce neutral buoyancy relative thereto, thereby increasing the compatibility of the device with the human user's eye and reducing trauma to the eye. The low-density portion may be an integral part of the lens and support structure, or may be a separate member attached thereto, and the lower mean density may be achieved by the use of a void or a relatively low density material.

[56] **References Cited**

U.S. PATENT DOCUMENTS

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|-----------|--------|--------------|------|
| 3,906,551 | 9/1975 | Otter | 3/13 |
| 3,979,780 | 9/1976 | Boniuk | 3/13 |
| 4,010,496 | 3/1977 | Neeffe | 3/13 |

OTHER PUBLICATIONS

"Artiphakia and Aniseikonia" by R.C. Troutman,

9 Claims, 6 Drawing Figures

