

[54] ONE-PIECE IMPLANTATION LENS

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[56] References Cited

U.S. PATENT DOCUMENTS

4,010,496	3/1977	Neefe	623/6
4,074,368	2/1978	Levy, Jr. et al.	623/6
4,210,391	7/1980	Cohen	351/161
4,242,762	1/1981	Tennant	623/6
4,424,597	1/1984	Schlegel	623/6

FOREIGN PATENT DOCUMENTS

2124500 2/1984 United Kingdom 623/6

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[57] ABSTRACT

A one-piece implantation lens is provided as a replacement for a natural lens which has been surgically, particularly extracapsularly, removed from the eye of living beings of a higher order and which has, on the one hand, a central lens body designed as a collective lens and, on the other hand, holding means in the form of thin-walled, flat support elements arranged peripherally on the lens body, radially extending outwardly from the lens body and fixing it in place, with the outer edge of the support elements lying on a circular arc around the center of the lens body; and which consists of a homogeneous, crystal-clear, high-temperature resistant plastic, preferably vulcanized silicone, with a specific gravity of between 1.01 and 1.08, preferably approximately 1.02, wherein at least one of the two surfaces of the central lens body is in the form of the optically effective surface of a Fresnel lens.

16 Claims, 12 Drawing Figures

