

[54] POSTERIOR CHAMBER IMPLANT LENS

[75] Inventor: Hans-Joachim Schlegel, Bad Homburg, Fed. Rep. of Germany

[73] Assignee: Inprohold Establishment, Vaduz, Liechtenstein

[21] Appl. No.: 374,439

[22] Filed: May 3, 1982

[30] Foreign Application Priority Data

May 13, 1981 [DE] Fed. Rep. of Germany 3119002

[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

3,866,249	2/1975	Flom	3/13
4,110,848	9/1978	Jensen	3/13
4,172,297	10/1979	Schlegel	3/13
4,242,762	1/1981	Tennant	3/13
4,254,510	3/1981	Tennant	3/13
4,298,994	11/1981	Clayman	3/13

FOREIGN PATENT DOCUMENTS

2717706 10/1978 Fed. Rep. of Germany 3/13

Primary Examiner—Ronald L. Frinks

Attorney, Agent, or Firm—Erwin S. Teltscher

[57] ABSTRACT

A posterior chamber implant lens as a replacement for the natural lens surgically removed, in particular extracapsularly, from the eye of a living being of a higher order, with a central lens body and holding means ar-

ranged on the lens body, extending radially outwards from the periphery of the body and fixing it in its position, of a homogeneous, clear, vulcanized silicone rubber, wherein

(a) the lens body is formed as a convex lens, wherein the rear surface facing the rear wall of the lens capsule has a greater, preferably much greater curvature than the front surface facing the iris,

(b) a basically radially outwardly extending, thin-walled support which encircles the center point of the lens body and has a diameter of between approx. 9.0 and approx. 12.0 mm, preferably of about 10.0 to 11.0 mm

(c) there are several openings in the support element distributed over the element, preferably in the form of round holes

(d) the support element has a material thickness of between approx. 0.15 mm and 0.40 mm, preferably of about 0.20 mm to 0.25 mm

(e) there is preferably situated an outwardly rounded-off ridge on at least a part of the outer edge of the support element

(f) the vulcanized silicone material (organopolysiloxane) has a specific gravity between 1.01 and 1.08 preferably of about 1.02

(g) the vulcanized silicone material has a Shore hardness between about 30 and 60, preferably of about 40 to 50, and

(h) the vulcanized silicone material has a temperature resistance, without deformation of the lens and its components of over 356° F. during a longer dry heat treatment lasting at least 100 hours.

13 Claims, 5 Drawing Figures

