

- [54] INTRAOCULAR LENS
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[57] ABSTRACT

An intraocular lens including an annular Fresnel lens for implant in the anterior chamber, the posterior chamber or in the cornea of the eye. The Fresnel lens can be made of polymethylmethacrylate (PMMA) or a high index of refraction material. The lens is an annular lens with centers of curvature of different rings receding from the axis according to the distance from the center so as to minimize spherical aberration where the only spherical surface is the central part of the lens, that central part can be plano-convex. A composite material can overlay the Fresnel elements providing a smooth entrant surface. The composite material can be a crystalline or other material which changes index of refraction when excited with electrical power or radiant energy.

7 Claims, 7 Drawing Sheets

