



(12) **United States Patent**
Bille

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(54) **METHOD FOR FORMING AND MODIFYING LENSES**

(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 92 days.

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Related U.S. Application Data

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(57) **ABSTRACT**

A lens for placement in a human eye, such as intraocular lens, has at least some of its optical properties formed with a laser. The laser forms modified loci in the lens when the modified loci have a different refractive index than the refractive index of the material before modification. Different patterns of modified loci can provide selected dioptic power, toric adjustment, and/or aspheric adjustment provided. Preferably both the anterior and posterior surfaces of the lens are planar for ease of placement in the human eye.

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(52) **U.S. Cl.**
USPC **264/1.37**; 264/2.7; 264/482
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USPC 264/1.1, 1.37, 2.7, 400, 482
See application file for complete search history.

86 Claims, 11 Drawing Sheets

