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(12) **United States Patent**
Bille

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(54) **SYSTEM FOR FORMING AND MODIFYING LENSES AND LENSES FORMED THEREBY**

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See application file for complete search history.

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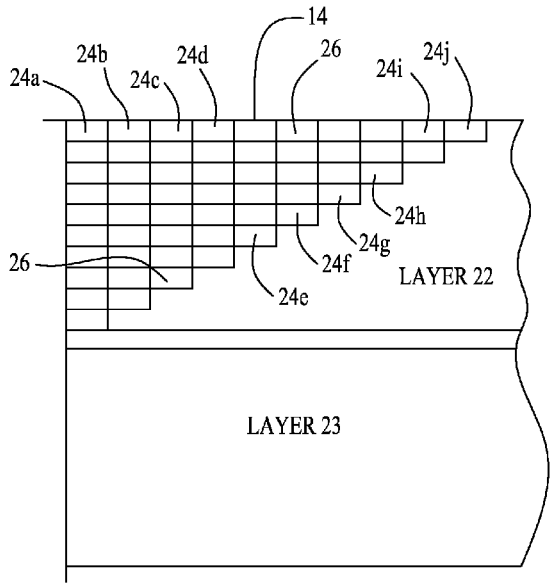
(57) **ABSTRACT**

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.

90 Claims, 11 Drawing Sheets