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(54) **PHASE-SHIFTED CENTER-DISTANCE DIFFRACTIVE DESIGN FOR OCULAR IMPLANT**

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(52) **U.S. Cl.**
USPC **623/6.3**; 623/6.27; 623/6.28; 623/6.29

(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

A diffractive multifocal design for ocular implant is provided. This ocular implant includes a diffractive multifocal intraocular lens (IOL) and a number of haptics. The diffractive multifocal IOL passes optical energy to distance, intermediate and near foci. The haptics mechanically couple to the diffractive multifocal IOL in order to position and secure the diffractive multifocal IOL within the eye. The diffractive multifocal IOL may include both a diffractive region and a refractive region, the diffractive multifocal IOL operable to phase shift optical energy such that constructive interference occurs within the diffractive region and the refractive region.

7 Claims, 9 Drawing Sheets