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- as to applicant's entitlement to apply for and be granted a
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- as to the applicant's entitlement to claim the priority of the
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(54) Title: QUINT-FOCAL DIFFRACTIVE INTRAOCULAR LENS

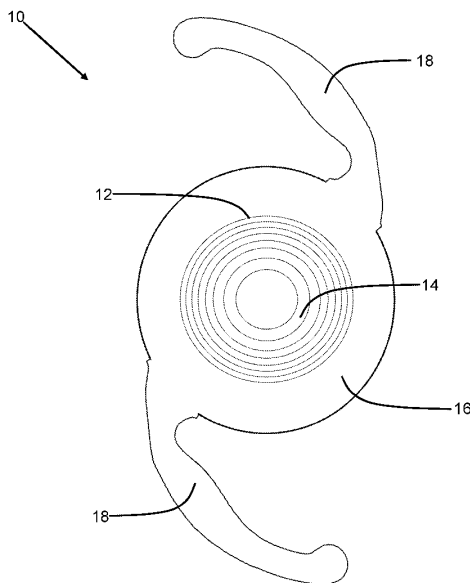


FIG. 1

(57) Abstract: A diffractive quint focal intraocular lens includes a base optic and a diffractive element. The base optic has a base curvature that corresponds to a base power. The diffractive element provides constructive interference in at least five consecutive diffractive orders to create a set of five focal points for vision from near to distance. The constructive interference provides for a near focal point at the highest diffractive order of the five consecutive diffractive orders, a distance focal point at the lowest diffractive order, and three intermediate diffractive orders between the highest and lowest diffractive orders to provide continuity of vision from near to distance with an extended intermediate, an intermediate, and an extended near focal points. The multifocal intraocular lens (i) provides a diffraction efficiency of -100%, (ii) creates almost no positive optical disturbance, (iii) may also reduce longitudinal chromatic aberration.

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