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(54) **TORIC CONTACT LENSES WITH CONTROLLED OPTICAL POWER PROFILE**

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See application file for complete search history.

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(57) **ABSTRACT**

The present invention provides a toric contact lens having a controlled optical power profile. In addition, the invention provides a series of toric contact lenses, each having a series of different targeted cylindrical optical powers and a series of different targeted spherical optical powers, and each having a spherical aberration profile in which (1) the optical power deviations of the lens are substantially constant; (2) power deviation at a distance of 3 mm from the optical axis is from about −0.5 diopter to about −1.5 diopters; (3) power deviation at a distance of 3 mm from the optical axis is from about 0.2 diopter to about 1.0 diopter smaller than power deviations at a distance of 2 mm from the optical axis; or (4) there is a spherical aberration component described by any one of fourth order, sixth order, eighth order Zernike spherical aberration-like terms, or combination thereof, wherein the spherical aberration component has a value of −0.5 diopter to about −1.5 diopters at a distance of 3 mm from the optical axis.

**27 Claims, No Drawings**