CLAIMS

1. An ophthalmic lens for at least one of slowing, retarding or preventing myopia progression, the ophthalmic lens comprising:

a center zone with a negative power for myopic vision correction;

at least one treatment zone surrounding the center zone, the at least one treatment zone having a power profile comprising a positive power relative to the center zone; and

a transition zone disposed between the center zone and the at least one treatment zone such that the at least one treatment zone, the transition zone, and the center zone form a continuous surface,

wherein the at least one treatment zone has a surface shape comprising a portion of a spheroidal torus;

wherein a slice through the surface of the spheroidal torus to generate the portion of the torus shape comprises a right circular conical surface with the principal axis of the cone coincident with the axis of rotation about which the torus is generated;

wherein the principal axis of the cone is coincident with the axis of rotation about which the torus is generated;

wherein the at least one treatment zone has an annular configuration sharing a common geometric axis with the center zone; and

wherein the at least one treatment zone generates a focal ring, with the locus of each of the infinite focal points on the ring being non-coaxial such that it is displaced from the geometric axis of the center zone.

2. The ophthalmic lens according to claim 1, wherein the at least one treatment zone is configured to generate the focal ring in front of a retinal plane of the eye of a wearer.

3. The ophthalmic lens according to claim 2, wherein an incident surface of the at least one treatment zone is configured to generate the focal ring in front of the retinal plane of the eye of a wearer.

4. The ophthalmic lens according to any one of the preceding claims, wherein the at least one treatment zone comprises an ADD power relative to the myopia correction power of greater than +0.50 D.

5. The ophthalmic lens according to any one of the preceding claims, wherein the at least one treatment zone comprises an optical power from about -10.00 D to about +15.00 D.

6. The ophthalmic lens according to any one of the preceding claims, wherein a diameter of the center zone is about 2 mm to about 7 mm.

7. The ophthalmic lens according to any one of the preceding claims, wherein the at least one treatment zone has an outer margin at about 4.5 mm from a center of the lens.

8. The ophthalmic lens according to any one of the preceding claims, wherein the ophthalmic lens comprises a contact lens.

9. The ophthalmic lens according to any one of claims 1 to 7, wherein the ophthalmic lens comprises a spectacle lens.

10. The ophthalmic lens according to any one of claims 1 to 7, wherein the ophthalmic lens comprises an intraocular lens, a corneal inlay, or a corneal onlay.

11. The ophthalmic lens according to claim 8, further comprising one or more stabilization mechanisms.