

ABSTRACT

FREEFORM LENS DESIGN AND METHOD FOR PREVENTING AND/OR SLOWING MYOPIA PROGRESSION

Lenses incorporate freeform power profiles that at least one of slow, retard or preventing myopia progression. An ophthalmic lens includes a first zone at a center of the lens; a first peripheral region continuously extending from the center, the first peripheral region having a different dioptric power than at the center; and a second peripheral region continuously extending from the first peripheral region and having a different dioptric power than the first peripheral region, thereby providing a continuous freeform power profile having substantially equivalent visual performance to a single vision lens, and having a depth of focus and reduced retinal image quality sensitivity that slows, retards, or prevents myopia progression.

Figure 6