A LENS DESIGN AND METHOD FOR PREVENTING OR SLOWING THE PROGRESSION OF MYOPIA

ABSTRACT

A lens is provided that is capable of preventing or slowing the progression of myopia when worn by a person. The lens has a power profile that reduces on-axis and off-axis hyperopic defocus created by the optics of the eye by creating on-axis and off-axis myopic defocus. The on-axis and off-axis myopic defocus is created by providing light rays that pass through a central vision region of the optical portion and light rays that pass through a peripheral region of the optical portion an increase in positive (plus) power. The overall effect is to prevent or slow the progression of myopia without any perceptible degradation in the person's central vision.

FIG. 1