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- (54) Title:** LENS WITH ASYMMETRIC PROJECTION TO TREAT ASTIGMATISM

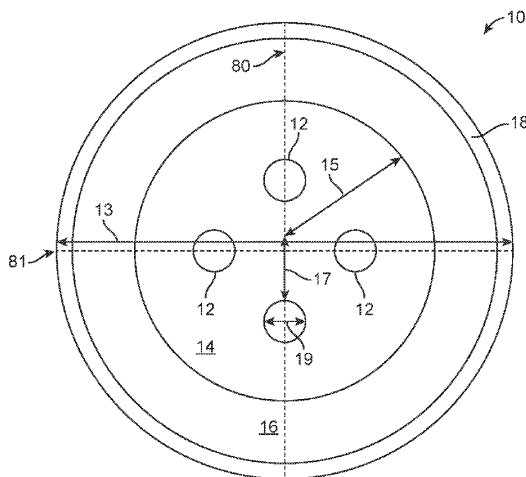


FIG. 1

- (57) Abstract:** A stimulus is configured to treat astigmatism with changes in retinal thickness, independently of, or in combination with, treatment for myopia. In some embodiments, a stimulus pattern is arranged with respect to an astigmatic axis of the eye to decrease ocular growth in relation to the astigmatic axis. In some embodiments, the apparatus is configured to direct light to regions of retina outside the macula in relation to the astigmatic axis of the eye. In some embodiments, the intensity is modulated to provide the effect. A lens, such as a contact lens or spectacle lens may be configured with a plurality of light sources, such as projection units having a light source and focusing optics that work together to project anteriorly or posteriorly defocused images onto the retina at locations eccentric to the fovea.