

INCREASED STIFFNESS CENTER OPTIC IN SOFT CONTACT LENSES FOR ASTIGMATISM CORRECTION

ABSTRACT

A molded contact lens comprising a stiffer optic zone relative to the peripheral zone of the contact lens provides an optical element for correcting astigmatism without the need for or substantially minimizing the need for the correction of rotational misalignment. The higher elastic modulus optic zone vaults over the cornea thereby allowing a tear lens to form. The tear lens follows or assumes the shape of the back surface of the contact lens. The combination of the tear lens and the optical zone provide an optical element for correction of refractive error.

Fig. 1