

VARIABLE OPTIC OPHTHALMIC DEVICE INCLUDING SHAPED LIQUID CRYSTAL ELEMENTS AND POLARIZING ELEMENTS

ABSTRACT

This invention discloses methods and apparatus for providing an ophthalmic lens of variable optical power. The variable optic insert may have surfaces within that have differing radii of curvature. The variable optic insert may also comprise polarizing elements. In some embodiments, the variable optic insert may affect polarization components of light differently and enable a bifocal type ophthalmic device. An energy source is capable of powering the variable optic insert included within the ophthalmic lens. In some embodiments, an ophthalmic lens is cast-molded from a silicone hydrogel. The various ophthalmic lens entities may include electroactive liquid crystal layers to electrically control refractive characteristics.

Fig. 6B