

METHOD AND APPARATUS FOR A VARIABLE POWER OPHTHALMIC LENS

ABSTRACT

This invention provides an optical lens comprising a front curve lens and a back curve lens, wherein both said front curve lens and said back curve lens comprise an arcuate shape and are positioned proximate to each other forming a cavity therebetween; a volume of oil and a volume of saline solution within the cavity; and a conductive coating on at least one portion of one or both of said front curve lens or said back curve lens contiguous to the cavity. The optical lens is configured to form variable optical structures from concentric annular sections in the oil and saline solution, based upon an electrical charge applied to the conductive coating in order to change characteristics of the oil and saline.

Fig. 4