ABSTRACT

AN OPHTHALMIC LENS WITH SEGMENTED RING LAYERS IN A FUNCTIONALIZED INSERT

An active lens insert for an ophthalmic lens is described. The lens comprising: arcuate shape ring segments assembled into substrate layers with one or both of electrical and logical functionality; wherein the size, shape and stacking structure of each of the annular shaped substrate layers is based on the thickness around an optical zone of the ophthalmic lens; electrical interconnections between substrate layers; and wherein the active lens insert is encapsulated with one or more materials for bonding within the body material of a molded ophthalmic lens.

Fig.5