

FULL RINGS FOR A FUNCTIONALIZED LAYER INSERT OF AN OPHTHALMIC LENS

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ABSTRACT

An active lens insert for an ophthalmic lens is described. The lens comprising annular shaped full ring substrate layers with one or both of electrical and logical functionality; wherein the size, shape and stacking structure of each of the annular
10 shaped substrate layers is based on the thickness around an optical zone of the ophthalmic lens and electrical interconnections between substrate layers. The active lens insert encapsulated with one or more materials for bonding within the body material of a molded ophthalmic lens. Various designs for rings that make up the functionalized layers in a functional layer insert are described. More specifically,
15 design parameters for the rings for incorporation into an ophthalmic lens. Additionally, functional aspects of the rings and materials for encapsulating the functional insert into an area outside the optical zone of the ophthalmic lens are described.

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FIG. 1