

AN OPHTHALMIC LENS WITH SEGMENTED RING LAYERS IN A FUNCTIONALIZED INSERT

ABSTRACT

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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
10 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.

15 **FIG. 5**