

ABSTRACT

METHOD OF ARRANGING RING SEGMENTS ON A WAFER FOR FUNCTIONALIZED LAYERS OF AN OPHTHALMIC LENS

5 A method of generating a layout for optimizing the use of semiconducting
material wafer for a die component of an ophthalmic lens is described. The method
comprising: dividing intact ring designs of die components into two or more arc
segments, wherein at least a portion of each arc segment comprises an internal arcuate
edge and an external arcuate edge; generating the layout for the semiconducting
10 material wafer by arranging the arc segments proximate to each other, and providing a
dicing street width between the arc segments. Various designs are described for ring
segments that make up the functionalized layers in a functional layer insert, for
incorporation into an ophthalmic lens. The arrangement of ring segments on a wafer to
optimize wafer utilization is also described.

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Figure 9