

METHODS FOR FORMATION OF AN OPHTHALMIC LENS WITH AN INSERT UTILIZING VOXEL-BASED LITHOGRAPHY TECHNIQUES

ABSTRACT

Methods for manufacturing an ophthalmic lens with an insert using voxel-based lithography techniques, wherein at least a portion of one surface may be free-formed from a reactive mixture are set forth herein. An ophthalmic lens precursor may be formed on a substrate with an arcuate optical quality surface via a source of actinic radiation controllable to cure a definable portion of a volume of reactive mixture, wherein the control may be on a voxel by voxel basis.

Fig. 7