

ABSTRACT

METHOD OF MANUFACTURING HYDROGEL OPHTHALMIC DEVICES WITH ELECTRONIC ELEMENTS

The present invention provides methods for forming an ophthalmic lens that can include a media insert and/or electronic components. In particular, the present disclosure provides for adhesion promoting functionalization steps for a biocompatible coating to bind a hydrogel material to a plastic surface or electronic component prior to the polymerization of the hydrogel. In some aspects, the media insert can be used to contain energy sources and/or functional electronic components which may be, for example, in a stacked integrated component configuration to permit a generally arcuate shape that can conform to the anterior surface of an eye.

Fig. 5