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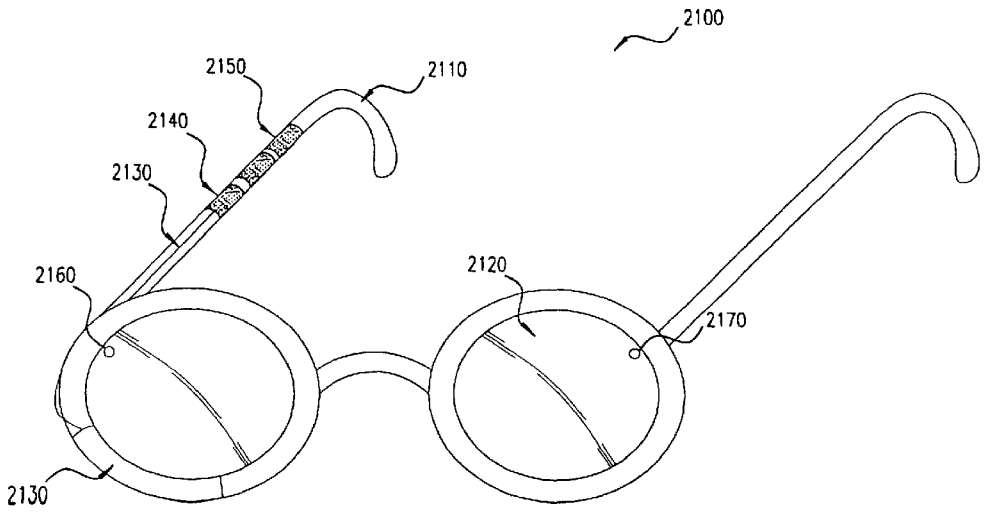
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(54) Title: ELECTRO-OPTIC LENS WITH INTEGRATED COMPONENTS



(57) Abstract: A range finder device for use with a controller in an optical system is disclosed in accordance with one embodiment of the invention. The range finder device comprises a transmitter configured to produce a first beam of non-visible radiation for intersecting a perceived object, and a receiver configured to detect a second beam of non-visible radiation reflected from the perceived object, the controller configured to determine a viewing distance of the perceived object based on signals received from the transmitter and receiver. A method of controlling an optical lens system is also disclosed. The method comprises utilizing a range finder device to determine a viewing distance of an object perceived through an electro-active lens and adjusting a focal length of a first portion of the electro-active lens based on the viewing distance. an optical lens system is also disclosed. The optical lens system comprises an electro-active lens and a controller coupled to the electro-active lens configured to adjust a focal length of at least a portion of the electro-active lens based on a signal from a range finder device.

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