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(54) Title: METHOD FOR QUANTITATIVE EVALUATION OF CONTACT LENS EDGE LIFT BASED ON OCT IMAGES

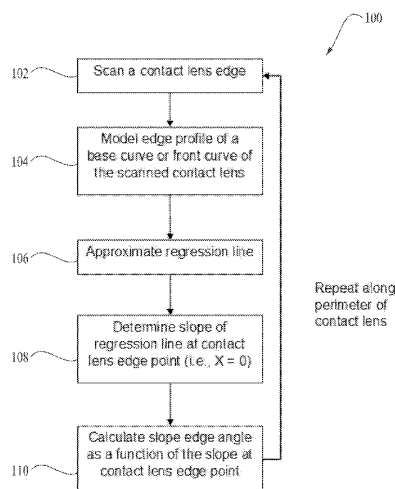


Fig. 1

(57) Abstract: A method for quantitatively evaluating contact lens edge lift and distortion. The method includes the steps of scanning an edge of a contact lens, modeling the edge profile, determining a best-fit line over the modeled edge profile, calculating the slope of the best-fit line at a contact lens edge point, and further calculating a slope edge angle (ESA) as a function of the slope, wherein the ESA is a highly effective metric for capturing the contact lens edge-lift relative to the intended shape of the lens. The method may be used to provide design feedback, predict clinical fitting outcomes, and for quality control purposes.

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