

ABSTRACT

CUSTOMIZED CORNEAL PROFILING

5 A customized corneal profile is provided by combining corneal topography data with
captured wavefront aberration data to form a course of refractive treatment of the
eye. In one embodiment, the captured wavefront data is employed within the area of
a pupil, while the corneal topography data is employed in the area outside of the
pupil. In other embodiments, the topography data is adjusted based on the
10 wavefront data, a course of refractive treatment is simulated and displayed upon the
topography data, and an initial evaluation of the suitability of a patient for treatment is
performed based on the topography data.

FIG.4B



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