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(71) Applicant: BAUSCH & LOMB INCORPORATED
[US/US]; One Bausch and Lomb Place, Rochester, NY
14604 (US).

(72) Inventor: YOUSSEFI, Gerhard; Reichardtstrasse 1,
84028 Landshut (DE).

(74) Agents: GREENER, William et al.; Bausch & Lomb In-
corporated, One Bausch and Lomb Place, Rochester, NY
14604 (US).

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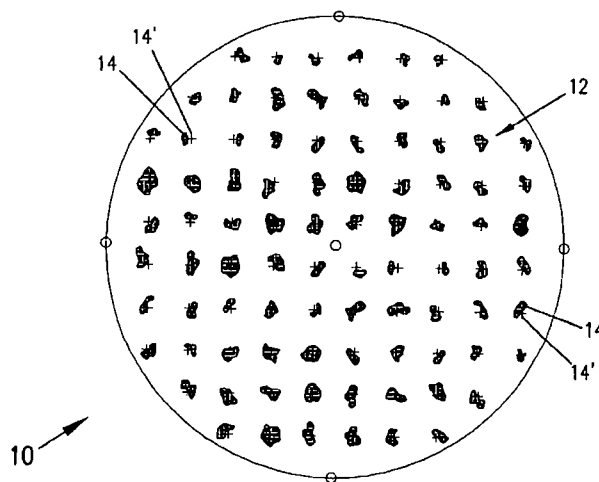
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(54) Title: OBJECTIVE MEASUREMENT OF EYE REFRACTION



162162



ACTION

(57) Abstract: An method for providing an objective manifest refraction of a patient's eye includes obtaining at least fourth-order Zernike wavefront aberration information, fitting a second-order only polynomial to the at least fourth-order data, and using this information to predict the patient's manifest refraction with an accuracy approaching the patient's subjective manifest refraction. A method is also described for prescribing an accurate vision correction based upon the objective manifest refraction. A display according to the invention includes higher-order wavefront aberrations, lower order wavefront aberrations, numerical indicia of predicted manifest refraction, and images of qualitative assessments of a patient's vision quality. A device for obtaining an objective manifest refraction is described.

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