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(71) Applicant: **JOHNSON & JOHNSON VISION CARE, INC.** [US/US]; 7500 Centurion Parkway, Suite 100, Jacksonville, FL 32256 (US).

(72) Inventors: **ROSS, Denwood, F., III**; 8420 Center Road South, Austinburg, OH 44010 (US). **BILLE, Josef**; Hermann-Loens-Weg 44/1, 69181 Heidelberg (DE). **SCHOTTNER, Michael**; Richard-Wagner Strasse 20, 69181 Liemen (DE). **MUELLER, Frank**; St. German Strasse 23, 67346 Speyer (DE).

(74) Agents: **JOHNSON, Philip, S.** et al.; Johnson & Johnson, One Johnson & Johnson Plaza, New Brunswick, NJ 08933 (US).

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(54) Title: OPTHALMIC WAVEFRONT MEASURING DEVICES

(57) Abstract: Apparatuses and methods for improving aberration determination capabilities, providing corrective prescription verification, and allowing binocular vision correction in ophthalmic wavefront measuring devices. (1) Improved aberration determination capabilities are achieved through input beam modification which includes sensing an image in a wavefront emanating from an eye in response to an input beam with a sensor and then modifying the input beam with an adaptive optical device based on the sensed information. (2) Corrective prescription verification includes modifying an image with an adaptive optical element to produce a corrected image at the patients eye. (3) Binocular vision correction for a pair of eyes includes measuring the aberrations of one eye with a first ophthalmic wavefront measuring device and measuring the aberration produced by the other eye with a second ophthalmic wavefront measuring device substantially simultaneously.



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