

ПАТЕНТЫ/PATENTS

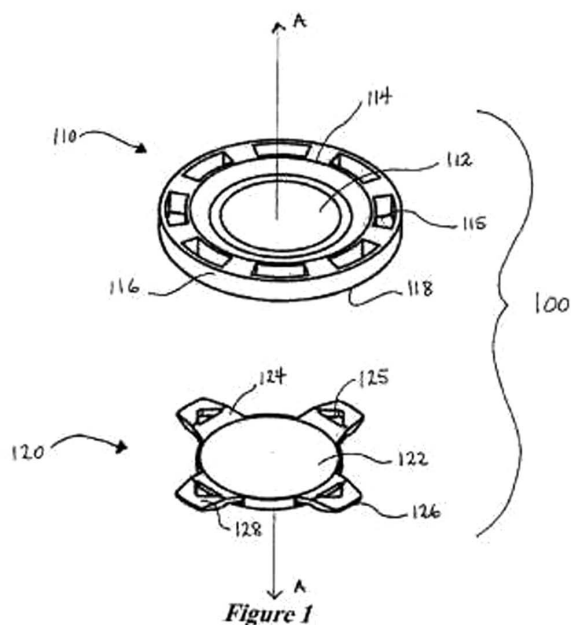
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US2022047383 (A1) — 2022-02-17

US2022047585 (A1) — 2022-02-17

TWO-PART ACCOMMODATING INTRAOCULAR LENS DEVICE

A two-part accommodating intraocular lens (IOL) device for implantation in a capsular bag of a patient's eye. The IOL device includes a primary lens assembly and a power changing lens. The primary lens assembly includes a fixed lens and a peripherally disposed centration member. The centration member has a circumferential distal edge and a first coupling surface adjacent the circumferential distal edge. The power changing lens has an enclosed, fluid- or gel-filled lens cavity and haptic system disposed peripherally of the lens cavity. The haptic system has a peripheral engaging edge configured to contact the capsular bag and a second coupling surface. The first and second coupling surfaces are in sliding contact with one another to permit movement of the power changing lens relative to the primary lens assembly and also to maintain a spaced relationship between the fixed lens and the lens cavity during radial compression of the power changing lens.



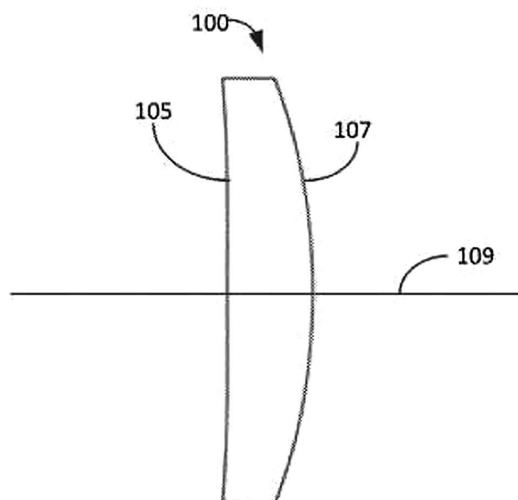
PREVENTING OR TREATING AGENT FOR GLAUCOMA

A preventing or treating agent for glaucoma is provided. This drug has a strong action of reducing intraocular pressure such that the intraocular pressure can be reduced even from the normal intraocular pressure. More specifically, a prophylactic or therapeutic agent for glaucoma, a preventing or treating agent for ocular hypertension, and eye drops containing (S)-(-)-1-(4-fluoro-5-isoquinolinesulfonyl)-2-methyl homopiperazine or its salt and phosphoric acid or its salt are provided.

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INTRAOCULAR LENSES THAT IMPROVE PERIPHERAL VISION

Lenses and methods are provided for improving peripheral and/or central vision for patients who suffer from certain retinal conditions that reduce central vision or patients who have undergone cataract surgery. The lens is configured to improve vision by having an optic configured to focus light incident along a direction parallel to an optical axis at the fovea in order to produce a functional foveal image. The optic is configured to focus light incident on the patient's eye at an oblique angle with respect to the optical axis at a peripheral retinal location disposed at a distance from the fovea, the peripheral retinal location having an eccentricity between -30 degrees and 30 degrees. The image quality at the peripheral retinal location is improved by reducing at least one optical aberration at the peripheral retinal location. The method for improving vision utilizes ocular measurements to iteratively adjust the shape factor of the lens to reduce peripheral refractive errors.



US2022047156 (A1) — 2022-02-17

US2022047676 (A1) — 2022-02-17

OPTICAL COHERENCE METROLOGY AND TOMOGRAPHY WITH IMPROVED REGISTRATION

Methods and apparatus are provided for optical coherence metrology or tomography across an extended area of an eye with improved registration. At least two optical coherence tomograms are acquired, with each tomogram containing data from regions of an anterior surface of the eye that are at least partially overlapping, and data from one or more deeper structures such as the retina or the anterior or posterior lens surfaces. The tomograms are then processed to register the data from the overlapping portions of the anterior surface regions, thereby registering the data from the deeper structures. In certain embodiments the reference arm of the apparatus comprises a compound reflector having at least two axially separated reflective surfaces for applying differential delays to different portions of the reference beam. The depth of field of the apparatus is thereby extended to enable measurement of eye length. In certain embodiments eye length measurements at a number of angles of incidence provide information on total eye shape.

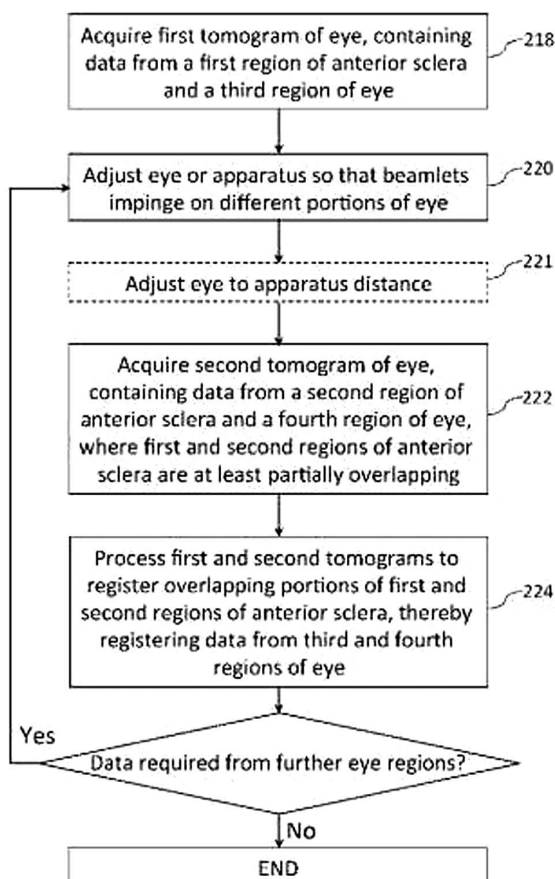


Fig. 2B

OPHTHALMIC COMPOSITIONS AND METHODS OF USE THEREFOR

The present invention encompasses ophthalmic compositions that may be used for various conditions of the eye, and particularly, conditions of the cornea. Also encompassed are methods that utilise these compositions and kits that include these compositions.

US2022047664 (A1) — 2022-02-17

COMPOSITION FOR PREVENTING OR TREATING RETINAL DISEASE, CONTAINING CENTELLA ASIATICA EXTRACT

The present invention relates to a composition for preventing and alleviating or treating glaucoma and macular degeneration, containing a *Centella asiatica* extract. Particularly, the composition increases the glucose metabolism efficiency of cells so as to increase the survival rate of retinal neurons and pigment epithelial cells and protects cells from oxidative damage caused by A2E, thereby being effectively usable as a composition for eye health and for preventing and alleviating or treating glaucoma and macular degeneration.

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COMPOSITIONS AND METHODS FOR TREATING THE EYE

The present invention relates to compositions comprising one or more compounds and/or extracts which induce, promote and/or improve production/release/delivery/excretion of hyaluronic acid from and/or in the cornea, and methods of using the compositions to treat the eye.