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MX2018012155 (A) — 2019-02-11

MX2018012148 (A) — 2019-02-07

SYSTEM FOR PERFORMING EYE SURGERY WITH SIMULTANEOUS DISPLAY OF GRAPHICAL INFORMATION FOR FLAP AND ABLATION

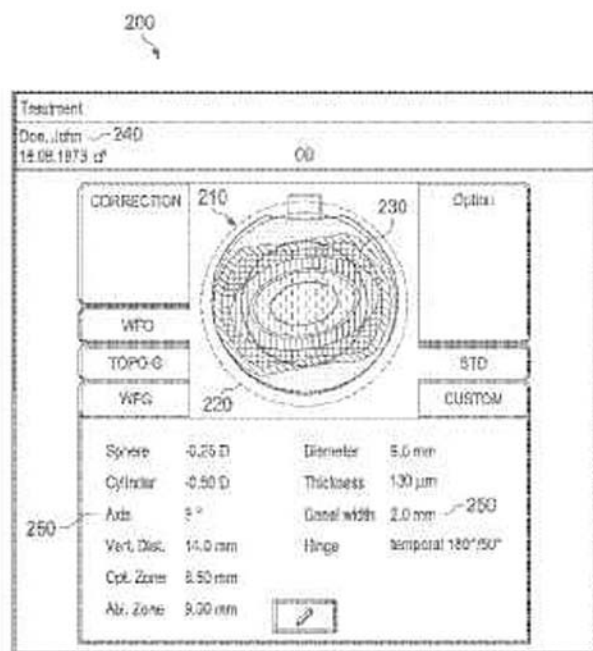


FIG. 2

The disclosure relates to systems and methods for performing eye surgery in which a single image that simultaneously presents a graphical representation of a planned or actual flap location superimposed with a graphical representation of a planned or actual area of ablation is used.

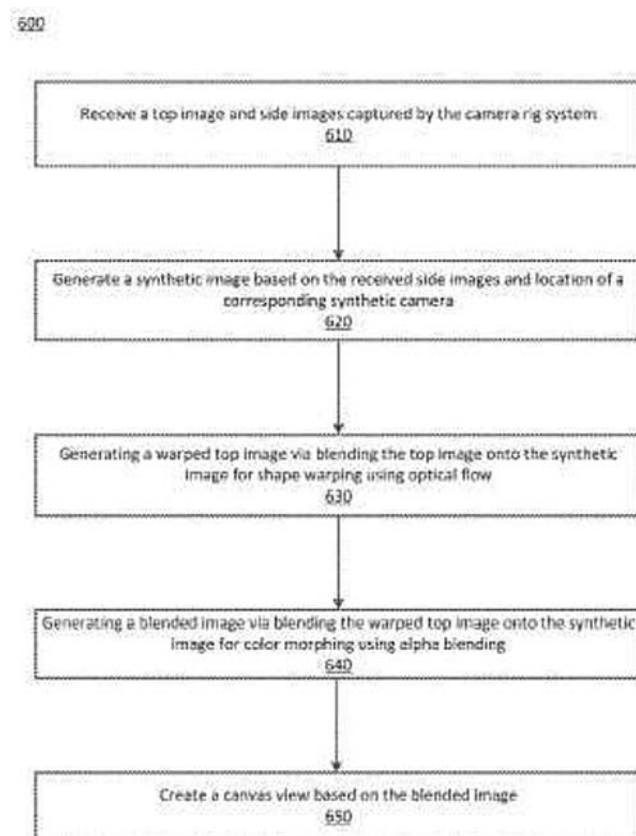
WO2019079515 (A1) — 2019-04-25

FUNCTIONAL BIOMARKERS FOR STATIN THERAPY IN AGE-RELATED MACULAR DEGENERATION (AMD)

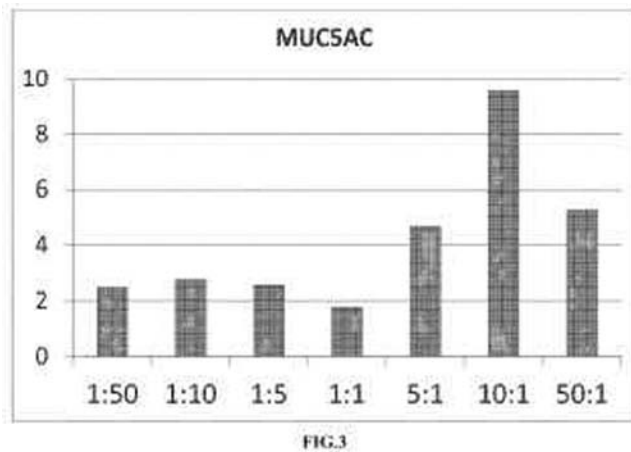
Methods of using visual functions such as dark adaptation, low luminance visual acuity, low luminance deficit, contrast sensitivity and scotopic sensitivity as functional biomarkers for statin therapy in AMD. These biomarkers can be used, for example, to support clinical trials of statin therapy for AMD by identifying participants more likely to respond, by providing an early indication of response, or by serving as an endpoint; or to support treatment of AMD patients with statins by identifying patients more likely to respond, by providing an early indication of responders vs. non-responders, or by confirming a treatment benefit.

TRANSITION BETWEEN BINOCULAR AND MONOCULAR VIEWS

An image processing system is designed to generate a canvas view that has smooth transition between binocular views and monocular views. Initially, the image processing system receives top/bottom images and side images of a scene and calculates offsets to generate synthetic side images for left and right view of a user. To realize smooth transition between binocular views and monocular views, the image processing system first warps top/bottom images onto corresponding synthetic side images to generate warped top/bottom images, which realizes the smooth transition in terms of shape. The image processing system then morphs the warped top/bottom images onto the corresponding synthetic side images to generate blended images for left and right eye views with the blended images. The image processing system creates the canvas view which has smooth transition between binocular views and monocular views in terms of image shape and color based on the blended images.



JOP20170147 (A1) — 2019-01-30

OPHTHALMIC COMPOSITIONS

The present invention relates to a sterile ophthalmic composition comprising castor oil and a medium chain triglyceride, to its use in medicine, in particular for the treatment and/or prevention of an ocular disease selected from the group consisting of dry eye, conjunctivitis, dermatitis, blepharitis, entropion, floppy eyelid syndrome, thyroid ophthalmopathy, pterygium, conjunctivochalasis, epithelial damage induced by preservatives, epithelial or anterior chamber damage induced by ocular surgery, limbal cell deficiency, corneal ulcers induced by physical or chemical agents, keratitis, episcleritis and uveitis.

US10264964 (B1) — 2019-04-23

EYE MOVEMENT MEASUREMENT DEVICE

An eye movement measurement device is disclosed herein. The eye movement measurement device includes at least one light source configured to illuminate one or more eyes of a user; at least one video-based sensor configured to detect low speed eye movements of the one or more eyes of the user and output one or more first signals based upon the detected low speed eye movements; at least one non-video-based sensor configured to detect high speed eye movements of the one or more eyes of the user and output one or more second signals based upon the detected high speed eye movements; and a data processing device operatively coupled to the light source, the video-based sensor, and the non-video-based sensor. The data processing device configured to calculate one or more eye movement output values for the one or more eyes of the user using the first and second signals.

US10268268 (B1) — 2019-04-23

WAVEGUIDE INTEGRATED EYE TRACKING

An eye tracker for determining a position of an eye, which may be integrated into a head-mounted display. The eye track-

er includes a waveguide, switchable Bragg gratings (SBGs) that selectively out couple light from the waveguide, light sources coupled to the waveguide, a detector coupled to a return path of the waveguide, and a controller. The controller instructs at least one light source to emit at least one light beam propagating through the waveguide, and activates at least one SBG to out-couple the at least one light beam from the waveguide toward the eye. The waveguide in-couples at least one reflected light signal reflected from the eye that originates from the at least one light beam out-coupled from the waveguide. The detector detects the at least one reflected light signal. The controller determines a position of the eye using the detected at least one reflected light signal.

US10265312 (B1) — 2019-04-23

ANTIBIOTIC SOLUTION AND METHOD OF INJECTION TO PREVENT OPHTHALMIC INFECTIONS

A method of preventing post-operative endophthalmitis involves injecting a colored antibiotic solution into the anterior segment of the eye during surgery, the antibiotic solution having moxifloxacin, cefuroxime, vancomycin, or some combination thereof, and the coloring agent being preferably a cobalamin (e.g., cyanocobalamin).

WO2019079063 (A1) — 2019-04-25

FLASH OPTIMIZATION DURING RETINAL BURST IMAGING

An apparatus for imaging an interior of an eye includes a light sensitive sensor, a plurality of light emitters (LEs), a plurality of nonvisible light emitters (NV-LEs), and a controller. The controller is coupled to the plurality of LEs, the plurality of NV-LEs, and the light sensitive sensor, and the controller implements logic that causes the apparatus to perform operations. The operations include illuminating the eye with the nonvisible light from the plurality of NV-LEs, and determining an amount of reflection of the nonvisible light from the eye for each of the NV-LEs. The operations also include illuminating the eye with selected one or more of the LEs in the plurality of LEs, and capturing, with the light sensitive sensor, a sequence of images of the interior of the eye while the eye is illuminated with the light from the LEs.

WO2019079718 (A1) — 2019-04-25

COMPOSITIONS AND METHODS FOR TREATING AGE-RELATED MACULAR DEGENERATION

The present disclosure provides compositions and methods for treating, preventing, or inhibiting diseases of the eye. In one aspect, the disclosure provides recombinant CFH FHL-1 adeno-associated virus (rAAV) vectors comprising a complement system gene.