ПАТЕНТЫ/PATENTS

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ZA202002821 (B) — 2021-08-25

USE OF A VEGF ANTAGONIST TO TREAT ANGIOGENIC EYE DISORDERS

The present invention provides methods for treating or preventing diabetic retinopathy, e.g., nonproliferative diabetic retinopathy, by sequentially administering multiple doses of a VEGF antagonist to a patient. The methods of the present invention include the administration of a 2mg aflibercept by intravitreal injection q8 weeks after three or five initial monthly doses (2q8) or 2 mg q16 weeks after three initial monthly doses and one 8-week interval (2q16). Moreover, the present invention provides methods for reversing or halting the progression NPDR to PDR (e.g., such that the DRSS is reduced by 2 or 3 levels) or preventing the occurrence or reoccurrence of a vision threatening complication by administering aflibercept according to the dosing regimens set forth herein.

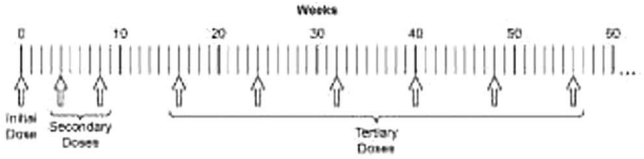

FIG. 1

WO2021168130 (A1) — 2021-08-26

ADJUSTABLE FLOW GLAUCOMA SHUNTS HAVING NON-LINEARLY ARRANGED FLOW CONTROL ELEMENTS, AND ASSOCIATED SYSTEMS AND METHODS

The present technology is directed to adjustable shunts for treating glaucoma. In particular, some embodiments provide shunts having a plurality of individually actuatable flow control elements that can control the flow of fluid through associated ports and/or flow lumens. For example, each individually actuatable flow control element can be actuated to modify a flow of a corresponding port and/or flow lumen. The individually actuatable flow control elements may be actuated along a given actuation axis. A flow control assembly may include a plurality of flow control elements arranged about a collection region. Accordingly, the shunts described herein can be manipulated into a variety of configurations that provide different drainage rates based on a degree to which the ports and/or flow lumens are blocked or unblocked, therefore providing a titratable glaucoma therapy for draining aqueous from the anterior chamber of the eye.

WO2021168150 (A1) — 2021-08-26

TREATMENT OF THE CORNEA USING CROSSLINKING AND MECHANICAL LOAD

A method of treatment of the cornea of an eye including exposing the cornea to a crosslinking medium, and applying a mechanical loading to the cornea, wherein the mechanical loading is selected as a strain proportional to the dimensions of the eye being treated. A method of altering the curvature of the cornea is provided including controlling a light source to apply light energy pulses to corneal tissue; wherein the light energy pulses are below an optical breakdown threshold for the cornea; ionize water molecules within the treated corneal layer to generate reactive oxygen species; and initiate crosslinking within the extracelleular matrix of the cornea to change the physical properties of the cornea, e.g., the stiffness of the cornea.

WO2021168218 (A1) — 2021-08-26

COMPOSITIONS COMPRISING AXITINIB AND METHODS OF TREATING OCULAR DISORDERS

This disclosure is generally related to ophthalmic therapies, and more particularly to methods and devices that allow for infusion of a fluid drug formulation into posterior ocular tissues for targeted, localized treatment, for example, for the treatment of wet AMD in human patients. The drug formulation may be injected into the suprachoroidal space (SCS) or subretinal space of an eye. The drug formulation may include a tyrosine kinase inhibitor, such as axitinib.

AU2020216205 (A1) — 2021-08-26

OPHTHALMIC CUTTING INSTRUMENTS HAVING INTEGRATED ASPIRATION PUMP

A device for extracting lens material from an eye including a distal, disposable portion releaseably coupleable to a proximal, reusable portion. The disposable portion includes a cutting tube having a distal cutting tip and an inner lumen having an open distal end. The disposable portion includes an aspiration pump fluidly coupled to the inner lumen of the cutting tube and a cutting tube drive mechanism configured to oscillate the cutting tube. The reusable portion includes an aspiration pump motor configured to drive the aspiration pump and a coupler for releaseably operatively coupling the pump motor to the aspiration pump. Related devices, systems, and methods are disclosed.

AU2021212104 (A1) — 2021-08-26

OCULAR IMPLANT AND DELIVERY SYSTEM

An ocular implant including a drug releasing element and having an inlet portion and a Schlemm's canal portion distal to the inlet portion, the inlet portion being disposed at a proximal end of the implant and sized and configured to be placed within an anterior chamber of a human eye, the Schlemm's canal portion being arranged and configured to be disposed within Schlemm's canal of the eye when the inlet portion is disposed in the anterior chamber.

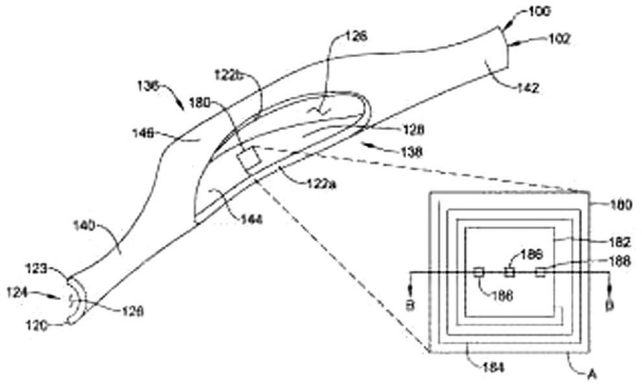

FIG. 6A

CA3127571 (A1) — 2020-07-30

APPARATUS, SYSTEM AND METHOD OF DETERMINING ONE OR MORE PARAMETERS OF A REFRACTIVE ERROR OF A TESTED EYE

Some demonstrative embodiments include apparatuses, systems and/or methods of determining one or more parameters of a refractive error of a tested eye. For example, a computing device may be configured to process depth mapping information to identify depth information of a tested eye; and to determine one or more parameters of a refractive error of the tested eye based on the depth information of the tested eye.

US2021259826 (A1) — 2021-08-26

ACCOMMODATING INTRAOCULAR LENS ASSEMBLIES AND ACCOMMODATION MEASUREMENT IMPLANT

The present invention pertains to accommodating intraocular lens (AIOL) assemblies including a haptics system for self-anchoring implantation in a human eye's annular ciliary sulcus for retaining an AIOL at a desired position along the human eye's visual axis, and an accommodation measurement implant (AMI) for determining accommodation and accommodation forces in an experimental set-up including an animal's eye.