ПАТЕНТЫ/PATENTS

Чтобы ознакомиться с полными текстами зарубежных патентов, следует пройти по ссылке https://ru.espacenet.com/?locale=ru_RU с указанием номера документа, отраженного в реферате

CA2992483 (A1) — 2017-02-23

CA2992483 (A1) — QUANTITATIVE PERI-ORBITAL APPLICATION OF OPHTHALMOLOGY DRUGS

The present invention is directed methods of lowering intraocular pressure in a patient suffering from elevated intraocular pressure or glaucoma and treating ocular disease by administering a drug to the periorbital skin of the patient.

WO2018007859 (A1) — 2018-01-11

A RETRIEVAL DEVICE FOR REMOVING AN ELEMENT FROM AN EYE AND METHOD OF RETRIEVAL

A retrieval device for removing an element from an eye and a method of retrieval disclosed relates to the field of ophthalmology. The retrieval device and the method of retrieval are used to remove any element from within the eye. The device and the method do not make any complication to the structure of the eye. The retrieval device comprises a plurality of wires and a sheath. The plurality of wires is connected at an operative end thereof defining a blunt end. The sheath is configured to partially cover the plurality of wires. The sheath and the plurality of wires are movable relative to each other, thereby facilitating a formation of a retrieval basket at the blunt end. The size of the retrieval basket is varied by displacing the sheath over the plurality of wires as per the size of the element to be retrieved from the eye.

US2017348265 (A1) — 2017-12-07

SOLUTION FOR OPHTHALMOLOGY

A solution for lysis of particles and fibers that adhere to a lens capsule of the eye during cataract operations contains 0.5-3.5 wt.-% lysine, particularly L-lysine, in an isotonic to hypertonic aqueous solution.

WO2017181835 (A1) — 2017-10-26

METHOD FOR ESTABLISHING CHRONIC OCULAR HYPERTENSION ANIMAL MODEL

A method for establishing a chronic ocular hypertension animal model. The method comprises: creating a glaucoma animal model having an elevated ocular pressure and damaged optic nerves by surgically inserting a material to block off an outflow pathway for an aqueous humor, such that the elevated ocular pressure is maintained and stabilized, and can be obtained and manipulated more easily. The obtained model has advantages such as a stable elevation and small fluctuations of the ocular pressure, the high ocular pressure can be maintained for a long time and the target ocular pressure can be controlled. A chronic ocular hypertension animal model can be made by using the method, and an ocular pressure thereof can be adjusted and controlled according to different degrees of blockage of the Schlemm's canal; the blockage of the Schlemm's canal can be completed by selecting fiber ducts of different specifications and sizes on the basis of different diameters of the Schlemm's canals in different types of animals, thereby generating chronic ocular hypertension animal models for multiple types of animals. The method enables the establishment of clinically compatible model-making animals and model-making methods for research into the mechanism of chronic ocular hypertension glaucoma, and provides a foundation for the mechanism of optic nerve damage in chronic glaucoma.

CN107280632 (A) — 2017-10-24

CELLPHONE-BASED PORTABLE ANTERIOR SEGMENT INSPECTION APPARATUS

The invention discloses a cellphone-based portable anterior segment inspection apparatus, comprising a clamp body and a lens; the clamp body comprises a front portion and a rear portion; the front portion is provided with a lens through hole for mounting the lens; the position of the lens corresponds to that of a camera of a matched cellphone; the front portion is also provided with an obliquely cut slit hole, the inclining direction of the obliquely cut slit hole is inclined

to one side of the lens through hole, and the position of the tail end of the obliquely cut slit hole corresponds to that of a flash light of the matched cellphone. The cellphone-based portable anterior segment inspection apparatus is clamped to a cellphone, the flash light of the cellphone is used as a light source, and the cellphone-based portable anterior segment inspection apparatus can produce a slit beam; an eyeball of a subject is imaged to the cellphone; therefore, the apparatus is simplified, and inspection efficiency is improved.

CA2981123 (A1) — 2016-10-13

DEVICE AND METHOD FOR NON-INVASIVE RECORDING OF THE ERG AND VEP RESPONSE OF AN EYE

The present invention refers to the field of ophthalmology, and in particular to that of devices and methods for supporting the diagnosis of important eye pathologies such as Age-related Macular Degeneration (AMD), Diabetic Retinopathy (DR), anomalies and dysfunctions of the retina and of sight in general such as degeneration of the retinal structure of the optical nerve and of the visual cortex. More specifically, the invention concerns a new device and method for recording the electroretinogram (so-called ERG) of an eye, i.e. the bioelectric response of the retina induced by a light stimulus, through the eyelid.

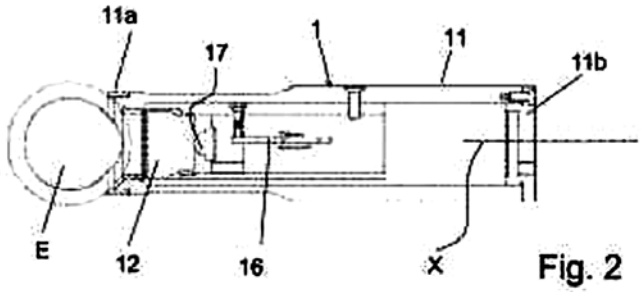

Fig. 2

CN107260236 (A) — 2017-10-20

ADJUSTABLE EYELID RETRACTOR SPECIAL FOR OPHTHALMOLOGY DEPARTMENT

The invention discloses an adjustable eyelid retractor special for the ophthalmology department. The adjustable eyelid retractor comprises a connector, a movable rod, a handle lever and a protective sleeve, wherein the left side of the connector is provided with a limiting ring, the left side of the connector is provided with a connecting rod, the left side of the connecting rod is provided with an eyelid opening head, the right side of a supporting rod is provided with the handle lever, man-machine textures are arranged on the surface of the handle lever, a limiting rod is arranged on the surface of the handle lever, a fixing column is mounted on the left side of the limiting rod, a rotating shaft is arranged on the surface of the handle lever, a movable rod is arranged on the surface of the handle lever, a fastening nut is arranged on the surface of the movable rod, a fixing buckle is arranged on the surface of the movable rod, a soft rubber layer is arranged in the protective sleeve, a fixing bolt is arranged in the protective sleeve, and a piston is arranged on the surface of the fixing bolt. According to the adjustable eyelid retractor special for the ophthalmology department, the eyelid opening head of the connecting rod is connected with the limiting ring, the eyelid can be effectively supported open, and the operation of the eyelid retractor can be carried out smoothly.

CN107174399 (A) — 2017-09-19

INTERNO-IMPLEMENTING SCHLEMM'S CANAL OPERATION DELIVERY SYSTEM

The invention discloses an interno-implementing Schlemm's canal operation delivery system. The system comprises an interno-pusher, a top end fixed shelf, a four-dimensional tender-moving displacement table, a four-dimensional position sensor, a displacement reader, a force sensor, a flexible connector, a conduit fixed shelf, an ophthalmology optical fiber conduit, a push-injector and a mechanical arm. The ophthalmology optical fiber conduit comprises a using section, a connector, a grouting section, a transmission line, and an optical connector. According to the interno-implementing Schlemm's canal operation delivery system, in a Schlemm's canal operation, the conduit is accurately penetrated into the Schlemm's canal from the cornea to conduct 360-degree expansion, traditional tools like tweezers and puncturing cutters are replaced, the operation stability can be sharply improved, unnecessary traumas are avoided, the operation difficulty is lowered, hands of a doctor in some operation are liberated, the manipulability is high, and the operation success rate is increased.

ПАТЕНТЫ/PATENTS

CN107157642 (A) — 2017-09-15

PORTABLE MASSAGE INSTRUMENT USED FOR AUXILIARY TREATMENT OF MEIBOMIAN GLAND DYSFUNCTION

The invention discloses a portable massage instrument used for auxiliary treatment of meibomian gland dysfunction. The massage instrument comprises a massage component, a heating component, a hand holding component, and a power supply component. The massage component comprises a massage end. The massage end is in a concave arc structure matched with a human eyelid. The massage component is internally provided with the heating component used to generate heat. The hand holding component is connected with the massage component. The hand holding component comprises a control switch used to control on-off of the heating component. The power supply component is used to provide electric energy for the heating component. The portable massage instrument in the technical scheme is simple in operation and good in comfortableness, and can perform large-area hot compress and massage on a meibomian gland, promotes secretion and expelling of the gland, and has good effect on treating meibomian gland dysfunction. The portable massage instrument is small in design and convenient in carrying.

CN107158020 (A) — 2017-09-15

MEDICINE COMPOSITION FOR OPHTHALMOLOGY DEPARTMENT AND PREPARATION METHOD THEREOF

The invention discloses a medicine composition for ophthalmology department and a preparation method thereof. The medicine composition for ophthalmology department is prepared from an anti-inflammatory agent, antibiotics, a blocking agent and an auxiliary agent. The preparation method comprises the following steps of preparing the auxiliary agent; mixing the anti-inflammatory agent, the antibiotics and the blocking agent to prepare an ethanol solution, filtering by a microfiltration membrane to remove impurities, and obtaining a clear liquid, namely a medicine liquid; heating the auxiliary agent, gradually dripping the medicine liquid according to the ratio, adding a surfactant, and uniformly mixing, so as to obtain a clear liquid, namely the medicine composition. The medicine composition for the ophthalmology department has the advantages that the appearance is clear, the property is uniform, and the character is stable; the use is easy, the storage is easy, the medicine effect is lasting, the inflammatory symptom of eyes can be properly eliminated, and the health restoration of a patient is promoted.