ПАТЕНТЫ/PATENTS

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Реферат документа US2017044274 (A1) — 2017-02-16

A FORMULATION AND LENS MANUFACTURING PROCESS FOR THE PRODUCTION OF INTRAOCULAR LENS (IOL)

A formulation, used in the method for manufacturing flexible, inexpensive, hydrophobic, having high reactive index value with a UV-blocking feature and smooth surfaces suitable for intraocular-use lenses by photopolymerization, characterized in that the formulation comprises

between 20 to 80 percent by weight acrylate and/or methacrylate-based oligomer as a binder,

between 5 to 40 percent by weight acrylate and/or methacrylate-based monomer as a reactive diluent,

between 1 to 5 percent by weight acrylate and/or methacrylate-based UV blocker for absorbing light, and

between 0.1 to 5 percent by weight photoinitiator to initiate the reaction.

Реферат документа WO2016183646 (A1) — 2016-11-24

INTRAOCULAR LENS - PROSTHESIS - WITH EMBEDDED INTRAOCULAR PRESSURE-MEASURING DEVICE

Fields of this patent: • Considerable improvement of the quality of treatment of patients with glaucoma of various origins • Ophthalmology The subject matter of this patent relates to a new type of special intraocular device or artificial crystalline lens to replace or supplement the natural crystalline lens or a previously implanted intraocular lens, designed to measure the current intraocular pressure directly in the aqueous humour at all times, thus substantially improving the treatment and follow-up of patients with glaucoma of various origins. The present intraocular lens - prosthesis - with embedded intraocular pressure-measuring device is transparent, has a geometric shape and an internal index of refraction which are carefully controlled to ensure correct optical convergence in the eye, and is provided with a sensor for measuring the pressure of the surrounding fluid (aqueous humour), an electronic circuit for reading the pressure signal and wirelessly transmitting the signal to the outside, and a power supply circuit from a rechargeable external or internal power source. The present intraocular lens - prosthesis - with embedded intraocular pressure-measuring device can be combined with a valve or micro-pump device which can act directly on the intraocular pressure and is controlled and actuated from the intraocular lens which is the subject matter of the present patent.

Реферат документа WO2016160456 (A1) — 2016-10-06

DEVICES AND METHODS FOR STABILIZATION OF AN OCULAR LENS CAPSULE AND PREVENTING ARTIFICIAL INTRAOCULAR LENS IMPLANT ROTATION POST CATARACT SURGERY

The present invention relates generally to the fields of ophthalmology and cataract surgery. More specifically, the present invention relates to a device implanted in the eye during cataract surgery and improves the optical functionality of the eye. This invention is in the field of medical devices and relates to capsular tension rings that are designed to be implanted in the capsular sac after removal of the crystalline lens affected by a cataract in association with an intraocular lens designed to replace the crystalline lens. The invention applies to stabilizing the artificial lens from movement in the x-y-z planes and prevents rotation.

Реферат документа US2017042666 (A1) — 2017-02-16

CONTAINER SYSTEM FOR HEATING AN INTRAOCULAR LENS

The present invention relates to a container system (200) for storing an intraocular lens (90). The container system (200) comprises a container (210) for storing a lens (90) and a heating device (220) for heating the lens (90) in the container (210). A heated lens (90) is more supple and can be rolled up better and smaller, such that a cut opening in an eye can be further reduced.

The present invention provides compositions comprising PAMAM dendrimers conjugated with one or more biologically active agents, and their use systemically to target activated microglia/macrophages in retina/choroid and generally, inflammatory and/or angiogenic diseases of the eye.

ПАТЕНТЫ/PATENTS

Реферат документа US2017043015 (A1) — 2017-02-16

METHODS FOR CROSS-LINKING CORNEAL COLLAGEN WITH VERTEPORFIN FOR THE TREATMENT OF DISORDERS OF THE EYE

Described are compositions and methods of using verteporfin-based photodynamic therapy (PDT) to increase the biomechanical strength of the cornea. More particularly, described herein are compositions and methods for cross-linking collagen in corneal tissue which are useful in the treatment of corneal ectatic disorders.

Реферат документа US2017042731 (A1) — 2017-02-16

INTRAOCULAR SURGERY SYSTEM

The present invention is an intraocular surgery system using a Venturi pump and capable of preventing clogging due to nucleus fragments, despite a reduced aspiration flow rate. The intraocular surgery system includes: an air pumping means (21); a Venturi tube (22) to which air is supplied from the air pumping means; a drainage tank (28) that is connected to a narrowed part of the Venturi tube; an intraocular surgery device (1) configured to fragment a nucleus inside an eye using ultrasonic vibrations, and discharge the nucleus together with a perfusate; a first aspiration tube (31) through which the perfusate discharged from the intraocular surgery device passes; a separation device (4) to which the first aspiration tube is connected, and that is configured to separate the nucleus from the perfusate that has flown from the first aspiration tube; and a second aspiration tube (32) that has an inner diameter that is smaller than an inner diameter of the first aspiration tube, and is configured to supply the drainage tank with the perfusate discharged from the separation device.

Реферат документа US2017042667 (A1) — 2017-02-16

INTRAOCULAR LENS HAVING A CAPSULAR RING FOR INHIBITING CAPSULAR OPACIFICATION

An IOL system includes a capsular ring having a concave exterior surface extending around its circumference that is configured, upon insertion into a capsular bag of a patient's eye, to engage an equatorial region of the capsular bag. The concave exterior surface extends between an anterior surface and a posterior surface of the capsular ring. A first one or more flaps are arranged on the anterior surface such that at least a portion of each of the first one or more flaps, upon insertion into the capsular bag of a patient's eye, engages an anterior portion of the capsular bag. Similarly, a second one or more flaps are arranged on the posterior surface such that at least a portion of each of the second one or more flaps, upon insertion into a capsular bag of a patient's eye, engages a posterior portion of the capsular bag.