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IN314DEN2015 (A) — 2015-06-12

PROCESS FOR PREPARING OBJECTS MADE OF BIOCOMPATIBLE HYDROGEL FOR USES THEREOF IN THE MEDICAL FIELD AND MORE PARTICULARLY IN OPHTHALMOLOGY

Реферат документа

The present invention relates to a process for manufacturing an object made of biocompatible hydrogel by moulding a polymeric solution in a mould made of a particular material wherein said process comprises the following steps: (i) preparing a polymeric solution by dissolving a copolymer of acrylonitrile and of an olefinically unsaturated comonomer bearing anionic groups in an aprotic solvent optionally in the presence of a non solvent (ii) forming and beginning the gelling of the polymeric solution obtained at the end of step (i) in a mould consisting of a material containing said non solvent or of a material permeable to said non solvent (iii) immersing the object undergoing gelling resulting from step (ii) in a non solvent. The present invention also relates to the objects made of biocompatible hydrogel which result from this process such as for example intracorneal lenses (or lenticules) implantable in the cornea or any other implants usable inophthalmology.

US2015320510 (A1) — 2015-11-12

COMPUTER VISION BASED METHOD AND SYSTEM FOR EVALUATING AND GRADING SURGICAL PROCEDURES

Реферат документа

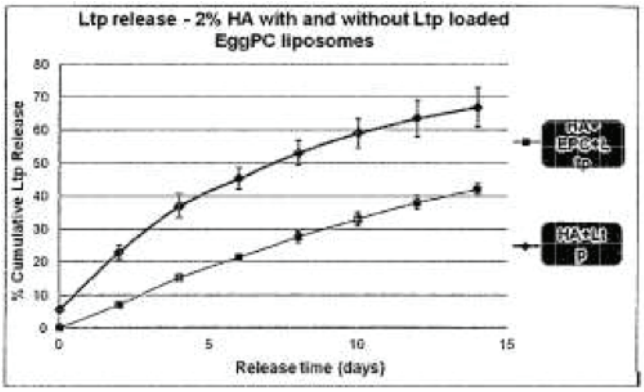
To increase the timeliness, objectivity, and efficiency in evaluating surgical procedures such as those performed by ophthalmologyresidents' learning of cataract surgery, an automatic analysis system for surgeries such as cataract surgery is provided to assess performance, particularly in the capsulorrhexis step on the Kitaro simulator. Computer vision technologies are employed to measure performance of this critical step including duration, centrality, circularity, size, as well as motion stability during the capsulorrhexis procedure. Consequently, a grading mechanism is established based on either linear regression or non-linear classification via Support Vector Machine (SVM) of those computed measures. Comparisons of expert graders to the computer vision based approach have demonstrated the accuracy and consistency of the computerized technique.

WO2015135306 (A1) — 2015-09-17

USES OF ARTEMISININ AND DERIVATIVES THEREOF IN MANUFACTURE OF MEDICAMENTS FOR PREVENTION AND TREATMENT OF VASCULAR DISEASES IN OPHTHALMOLOGY AND PHARMACEUTICAL COMPOSITIONS

Реферат документа

Disclosed are uses of artemisinin and derivatives thereof in the manufacture of medicaments for inhibition of ocular vascular endothelial cell proliferation, or the prevention and treatment of related diseases of ocular vascular system exudation, edema, new blood vessels formation and proliferation, and pharmaceutical compositions comprising artemisinin and derivatives thereof. Artemisinin and derivatives thereof of the present invention can be used for the prevention and treatment of ocular vascular related diseases, such as age-related macular degeneration, diabetic retinopathy, retinal central vein occlusion and retinal branch vein occlusion etc.



US2015250891 (A1) — 2015-09-10

HYALURONIC ACID-BASED DRUG DELIVERY SYSTEMS

Реферат документа

The present invention relates to novel hyaluronic acid (HA) hydrogels comprising vesicles loaded with a drug or a protein or a nucleic acid. The new HA hydrogels provide sustain release formulations that are useful for several clinical and surgical applications, including but not limited to ophthalmology (e.g. glaucoma, corneal, ocular inflammatory, vitreoretinal and medical retinal diseases) and dermatological conditions.

US2015246001 (A1) — 2015-09-03

PROCESS FOR THE MANUFACTURING OF A MULTILAYER DRUG DELIVERY CONSTRUCT

Реферат документа

The present invention relates to a process for the manufacturing of a multilayer construct comprising layering at least one drug loaded film from which each film comprises a polymer and at least a drug manufactured by the steps of dissolving the polymer in an organic solvent, mixing the dissolved polymer with the drug, laminating the mixture between at least two polymeric sheets, whereby at least one sheet is permeable to the organic solvent, removing the sheets to provide the drug loaded film, layering the drug loaded film and fusing the drug loaded films into a multilayer construct. The present invention also relates to the multilayer construct obtainable by the process according to the present invention and to the use of the multilayer construct in ophthalmology, cardiovascular, pain management, musculoskeletal, cancer treatment or in vaccine delivery.

MD4355 (B1) — 2015-07-31

SHUNT WITH VALVE FOR NORMALIZATION OF INTRAOCULAR PRESSURE

Реферат документа

The invention relates to ophthalmology, in particular to the shunts with valves for normalization of intraocular pressure, and can be used for the surgical treatment of glaucoma.The shunt for normalization of intraocular pressure comprises a rod curved open loop (1), made mainly in the shape of circle or oval, to the inner surface of which, at an angle relative to its plane, is adjacent a tube (2), which communicates with the cavity formed by the loop (1). In the point of connector of the loop (1) is adjacent a tube (3), placed with it in the same plane. Both tubes (2) and (3) are arranged on the opposite portions of the loop (1). All elements of the shunt are made of elastic material, and the loop (1) and tubes (2) and (3) are made of one piece.The valve for the shunt for normalization of intraocular pressure comprises a collector-tube (4), from the closed end of which, on its inner surface, are made holes (5). In the collector-tube (4) from the open end thereof, is installed the tube (3) of the shunt. The inner diameter of the collector-tube (4) corresponds to the outer diameter of the tube (3), and all elements of the valve are made of elastic material.

CN104784022 (A) — 2015-07-22

CRYSTALLINE LENS TRAINING NURSING INSTRUMENT FOR OPHTHALMOLOGY DEPARTMENT

Реферат документа

The invention relates to a crystalline lens training nursing instrument for the ophthalmology department and belongs to the technical field of medical equipment. The crystalline lens training nursing instrument for the ophthalmology department comprises a nursing instrument body, and is characterized in that bandage fixing rings are arranged on the two sides of the nursing instrument body, the bandage fixing ring on the left of the nursing instrument body is provided with a left bandage which is provided with a left adjusting buckle and a bandage fixing buckle, the bandage fixing ring on the right of the nursing instrument body is provided with a right bandage which is provided with a right adjusting buckle and a bandage sleeve buckle, a nursing control device is arranged on the nursing instrument body, a power switch is arranged on the right of the nursing control device, and a treatment enhancing button is arranged on the right of the power switch. The crystalline lens training nursing instrument for the ophthalmology department is simple in structure, easy and convenient to operate, capable of assisting in nursing treatment on eyes of a patient, efficient and rapid, reduces the pain of the patient, improves the rehabilitation effect and relieves the workload on medical staff.