

Search strategy

Query

(OCULAR AND INJECT+ AND (SHUNT OR STENT))/TI/AB/IW/TX AND (A61F-009)/CPC

100 Documents

Publication numbers	Title	Current assignees
WO201844974 A1	Methods and systems for treating intracranial hypertension and related indications using an optic nerve stent or shunt	IANCHULEV TSONTCHO, ...
CA2987953 A1	Ab externo intraocular shunt placement	AQUESYS
CA2920154 A1	Ocular collar stent for treating narrowing of the irideocorneal angle	REGENEYE
WO201883619 A1	A shunt system, shunt and method for treating an ocular disorder	LIQID MEDICAL PTY
CA2936659 A1	Schlemm's canal stent -sieve	UNIVERSITY OF UTAH RESEARCH FOUNDATION
WO200714327 A2	Histone deacetylase inhibitors (HDAC) that correct protein misfolding and uses thereof	UNIVERSITY OF FLORIDA
WO201219136 A2	Injector apparatus and method for drug delivery	FORSIGHT VISION4
WO200150943 A2	Ocular implant and methods for making and using same	BECTON DICKINSON & COMPANY
WO200280811 A2	System for treating ocular disorders	GLAUKOS
US20170071787 A1	Hydraulic injector and methods for intra- ocular lens insertion	NOVARTIS
WO200744668 A2	Compstatin and analogs thereof for eye disorders	APELLIS PHARMACEUTICALS, ...
WO200064391 A1	Shunt device for treating glaucoma	GLAUKOS
CA2904068 A1	Systems for delivering an ocular implant to the suprachoroidal space within an eye	GLAUKOS
US20040015140 A1	Uveoscleral drainage device	YALE UNIVERSITY
EP2092916 A1	Phacoemulsificator applying ultrasound to an ocular globe	INSERM - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, ...
CN108635089 A	Air- injection type lacrimal stent supporting device	TONGJI HOSPITAL
US20130253528 A1	System and method for delivering multiple ocular implants	GLAUKOS
WO201395790 A2	Devices and methods for implanting a shunt in the suprachoroidal space	AQUESYS
WO201369018 A2	Ocular implant with intraocular fluid pressure regulation	OPR
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CA2911290 A1	Apparatus and methods for ocular injection	CLEARSIDE BIOMEDICAL
US20150133946 A1	Intraocular shunt inserter	AQUESYS
WO201240380 A1	Aqueous humor micro bypass shunt	UNIVERSITY OF COLORADO
WO2011134146 A1	Intravitreal self adaptive stent	EMPIRE TECHNOLOGY

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WO200885966 A2	Insertion tool and packaging for ocular implant and method for using same	BEAVER VISITEC INTERNATIONAL, ...
US20130158462 A1	Delivering ocular implants into the eye	IVANTIS
WO201088548 A1	Small molecule delivery with implantable therapeutic device	FORSIGHT VISION4
WO200466983 A2	Controlled release of highly soluble agents	PSIVIDA
US20130150771 A1	System and method for powering ocular implants	ALCON RESEARCH
WO200473552 A2	Optic nerve implants	S K PHARMACEUTICAL
CA2979355 A1	Drug eluting ocular implant	DOSE MEDICAL
WO2011155636 A1	Ocular implant insertion system	HOYA
US20090132040 A1	Ocular implant delivery system	IVANTIS
CN105435338 A	Injector apparatus and method for drug delivery	FORSIGHT VISION4
WO201465426 A1	Intraocular lens injector	SANTEN PHARMACEUTICAL
CA2960278 A1	Injector apparatus	PSIVIDA
WO201150360 A1	Ocular implant system and method	IVANTIS
WO2016168686 A1	Ocular filtration devices, systems and methods	UNIVERSITY OF COLORADO
WO201271476 A2	Drug eluting ocular implant	DOSE MEDICAL
CA2924955 A1	Ocular implants and methods	IVANTIS
CA2927921 A1	Glaucoma treatment device	NOVARTIS
US20080089480 A1	Ocular radiosurgery	CARL ZEISS
WO201459233 A1	Ocular filtration devices, systems and methods	UNIVERSITY OF COLORADO
WO200784582 A2	Drug delivery treatment device	NOVARTIS
US20040193095 A1	Implants for treating ocular hypertension, methods of use and methods of fabrication	SHADDUCK JOHN H.
CN103054667 A	Ocular implant delivery system and method	IVANTIS
CA3009544 A1	Ocular implant systems	ISTAR MEDICAL
WO200315659 A2	Improved shunt device and method for treating glaucoma	GMP VISION SOLUTIONS
CA2878271 A1	Ocular delivery systems	SIGHT SCIENCES
WO200693758 A1	Microimplants for ocular administration	ALLERGAN
US20130060255 A1	Lens injector apparatus and method	PRESBITECH
CA2951478 A1	Implant for treating ocular disorders	GLAUKOS
US20180036173 A1	Ocular filtration devices, systems and methods	UNIVERSITY OF COLORADO
US20170119580 A1	Devices and methods for treatment of ocular disorders through delivery of therapeutic nucleic acids	DOHENY EYE INSTITUTE

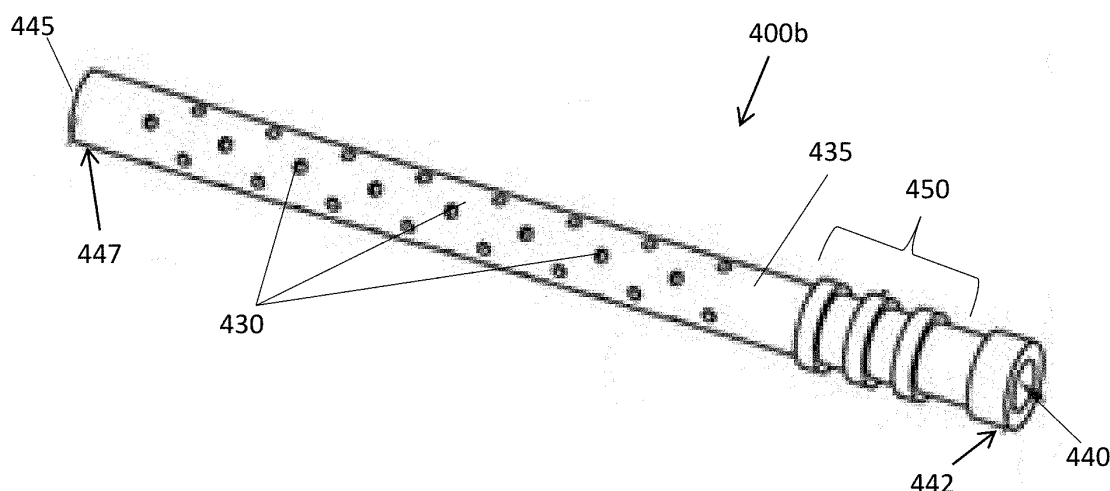
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WO2005105197 A2	Indwelling shunt device and methods for treating glaucoma	GMP VISION SOLUTIONS
WO200964834 A2	Meibomian gland intraductal diagnostic and treatment methods and related apparatus	MGD INNOVATIONS
WO201844684 A1	Tool(s) for inserting a glaucoma shunt	INNFOCUS
US20140276329 A1	Trans-sclera portal for delivery of therapeutic agents	JOHNSON & JOHNSON SURGICAL VISION
US20040102729 A1	Devices for glaucoma treatment	GLAUKOS
WO2009137085 A2	Sustained release delivery of active agents to treat glaucoma and ocular hypertension	MATI THERAPEUTICS
CA2980713 A1	Ocular delivery systems and methods	SIGHT SCIENCES
WO2015126332 A1	An ocular drainage device and method of manufacturing thereof	NATIONAL UNIVERSITY OF SINGAPORE, ...
US20060116626 A1	Fluid infusion methods for ocular disorder treatment	GLAUKOS
WO2012167167 A2	Eye shunt with porous structure	SILVESTRINI THOMAS A
US20050119636 A1	Implant and pressure sensor for glaucoma treatment	GLAUKOS
WO200322336 A1	Medical device for Retina operations	WEISS JEFFREY N
CA2952822 A1	Methods and devices for treating posterior ocular disorders	CLEARSIDE BIOMEDICAL
WO201385643 A1	Devices and methods for placing a shunt into the intra-scleral space	AQUESYS
US20170224535 A1	Treatment method and stent	TERUMO
WO200912406 A1	Ocular implant with hydrogel expansion capabilities	NOVARTIS
CN101386203 A	Manufacturing method of foldable artificial vitreous body and mould thereof	GUANGZHOU VESBER BIOTECHNOLOGY
WO201443698 A2	Expanding ocular impant devices	NOVARTIS
CN105997341 A	Method for manufacturing inner drainage biomimetic stent for glaucoma and use thereof	EYE HOSPITAL OF WENZHOU MEDICAL UNIVERSITY
CA2849371 A1	System, interface devices, use of the interface devices and method for eye surgery	WAVELIGHT
US20100234790 A1	Ocular implant with therapeutic agents and methods thereof	DOSE MEDICAL
US20040050392 A1	Implant delivery system and methods thereof for treating ocular disorders	GLAUKOS
US20110112546 A1	Ocular implant applier and methods of use	NOVARTIS
WO200117460 A1	Ophthalmic device and method of manufacture and use	REFOCUS
US20090036819 A1	Ocular system with anchoring implant and therapeutic agent	GLAUKOS
US20050267398 A1	Glaucoma shunt	CLARITY
US6471666 B1	Injectable glaucoma device	NOVARTIS

Publication numbers	Title	Current assignees
CA2901476 A1	Implants with controlled drug delivery features	DOSE MEDICAL
US20040225250 A1	Internal shunt and method for treating glaucoma	NOVARTIS
WO200287418 A2	Bifurcatable trabecular shunt for glaucoma treatment	GLAUKOS
US20150011926 A1	Intraocular shunt placement in the suprachoroidal space	AQUESYS
US20020133168 A1	Applicator and methods for placing a trabecular shunt for glaucoma treatment	GLAUKOS
US7488303 B1	Ocular implant with anchoring mechanism and multiple outlets	GLAUKOS
CA2872338 A1	Drug delivery system for treating open angle glaucoma and ocular hypertension	MATI THERAPEUTICS
US20130281908 A1	Delivery system for ocular implant	NOVARTIS
US20120123438 A1	Methods for intraocular shunt placement	AQUESYS
US20060032507 A1	Contrast-enhanced ocular imaging	GLAUKOS
WO2007130393 A2	Dual drainage pathway shunt device and method for treating glaucoma	GLAUKOS
US20090082860 A1	Glaucoma treatment method	IVANTIS
WO9513765 A1	Biocompatible ocular implants	ALLERGAN
US20140135916 A1	Flow promoting ocular implant	NOVARTIS
WO200414218 A2	Implantable ocular pump to reduce intraocular pressure	GLAUKOS
AU2009202842 A1	Apparatus and method for treating ocular disorders	GLAUKOS
US20120123316 A1	Shunt placement through the sclera	AQUESYS
CA3022830 A1	Bioresorbable ocular drug delivery device	BURNS THOMAS, ...

Family 1/100 - FAMPAT - ©Questel

Title

(WO201844974)

Methods and systems for treating intracranial hypertension and related indications using an optic nerve **stent** or **shunt****Images****Publication data including kind & date**

WO2018044974	A1	2018-03-08	WO201844974
US20180125707	A1	2018-05-10	US20180125707

**Abstract**

(WO201844974)

Embodiments of the present specification provide surgical methods and apparatuses to deploy at least one **stent** through an optic nerve sheath in order to maintain an opening/fenestration for intracranial fluid egress. The surgical method creates a fenestration, an opening, a slit, or a hole, through an optic nerve sheath of a human patient. The fenestration is created in a minimally invasive manner using an applicator, such as an endoscopic visualization apparatus, that includes a **stent** or **shunt** for deploying through the fenestration. The presently disclosed specification is indicated to treat papilledema and/or intracranial hypertension and to deliver therapeutic compositions through the optic nerve sheath.

Inventors

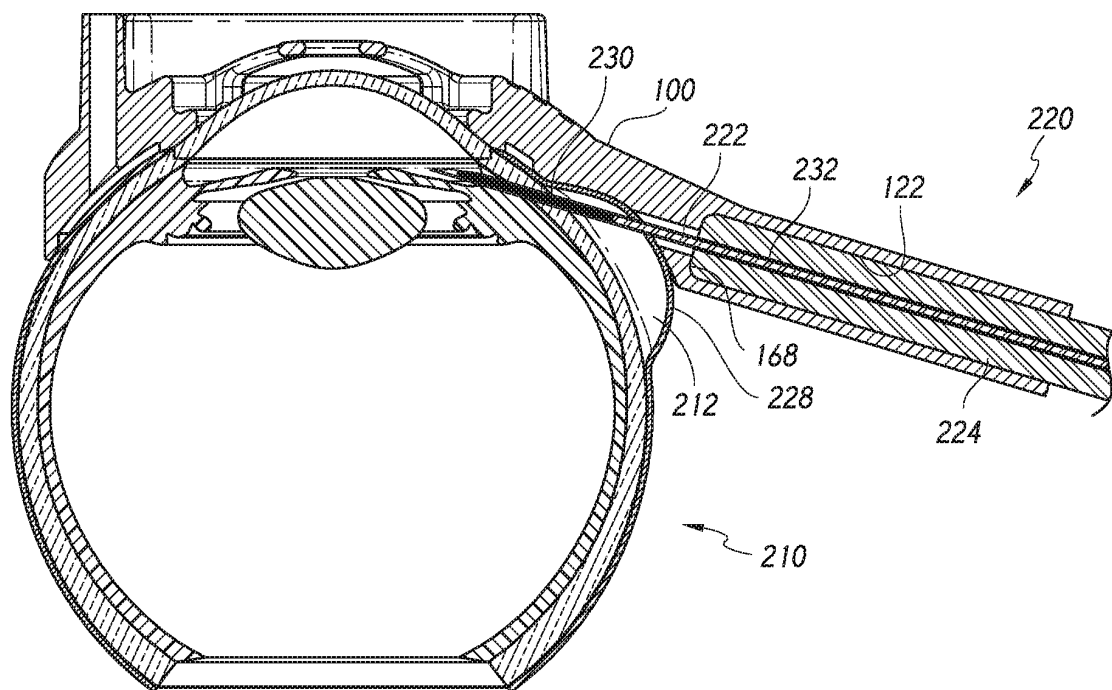
KHADERI SYED KHIZER RAHIM
IANCHULEV TSONTCHO

Family 2/100 - FAMPAT - ©Questel

Title

(EP3302381)

Ab externo intraocular **shunt** placement**Images**



Publication data including kind & date

CA2987953	A1	2016-12-08	CA2987953
US20160354244	A1	2016-12-08	US20160354244
US20160354245	A1	2016-12-08	US20160354245
WO2016196841	A1	2016-12-08	WO2016196841
AU2016270974	A1	2018-01-18	AU2016270974
IL255904	A	2018-01-31	IL-255904
KR20180015684	A	2018-02-13	KR20180015684
CL2017003035	A1	2018-03-16	CL3035201700
CN107835678	A	2018-03-23	CN107835678
IN201817000111	A	2018-03-23	IN201817000111
VN56687	A	2018-03-26	VN--56687
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EP3302381	A1	2018-04-11	EP3302381
PH12017502193	A1	2018-06-11	PH12017502193
JP2018519892	A	2018-07-26	JP2018519892
BR112017025859	A2	2018-08-14	BR112017025859
MX2017015578	A	2018-08-15	MX2017015578
AU2016270974	B2	2018-08-23	AU2016270974
EP3302381	A4	2018-09-19	EP3302381
AU2018267617	A1	2018-12-13	AU2018267617



Abstract

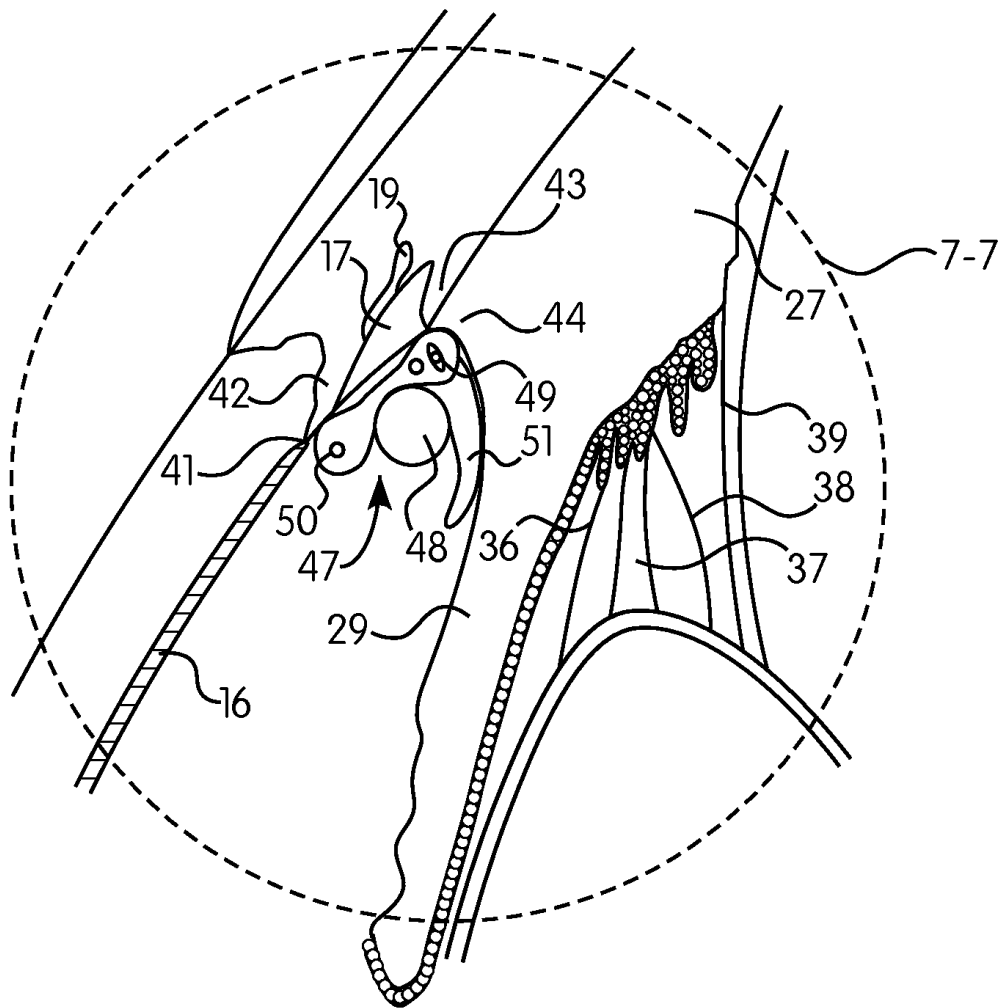
(EP3302381)

Placing an intraocular **shunt** ab externo into an eye can include inserting the **shunt** into the eye and either before and/or after insertion, ballooning a target outflow region of the eye to permit an outflow end of the **shunt** to be enveloped within the ballooned target outflow region. An **injector** docking device can optionally be used to guide insertion of the needle and **shunt** into the eye.

Inventors

AQUESYS

Images



CA2920154	A1	2014-02-13	CA2920154
WO2014025862	A1	2014-02-13	WO201425862
US20140046437	A1	2014-02-13	US20140046437
AU2013299693	A1	2015-02-19	AU2013299693
EP2882387	A1	2015-06-17	EP2882387
US20150164635	A1	2015-06-18	US20150164635
CN104768505	A	2015-07-08	CN104768505
MX2015001741	A	2015-10-12	MX2015001741



JP2015530898	A	2015-10-29	JP2015530898				
IN0368/KOLNP/2015	A	2015-12-18	IN2015KN00368				
EP2882387	A4	2016-03-30	EP2882387				
US9308082	B2	2016-04-12	US9308082				
US20160184087	A1	2016-06-30	US20160184087				
AU2013299693	B2	2017-06-29	AU2013299693				
CN104768505	B	2017-09-05	CN104768505B				
US9974645	B2	2018-05-22	US9974645				

Abstract

(EP2882387)

An **ocular stent** for insertion in an anterior chamber of an eye is provided. The **stent** facilitates the restoration of the structure of an irideocorneal angle of the anterior chamber for treating structural changes from **ocular** aging. The **stent** includes an annular body sized to fit in the irideocorneal angle of the eye. The body includes: an anterior portion configured to contact a surface of a transition zone between a trabecular meshwork and a corneal endothelium of the eye; a posterior portion configured to contact a peripheral iris of the eye; and a central portion connecting the anterior portion and the posterior portion of the body. A method for stabilizing the irideocorneal angle of the anterior chamber using a **stent** is also disclosed herein.

Inventors

RENKE PETER

Latest standardized assignees - inventors removed

REGENEYE

Family 4/100 - FAMPAT - ©Questel

Title

(WO201883620)

A **shunt** system, **shunt** and method for treating an **ocular** disorder**Images**

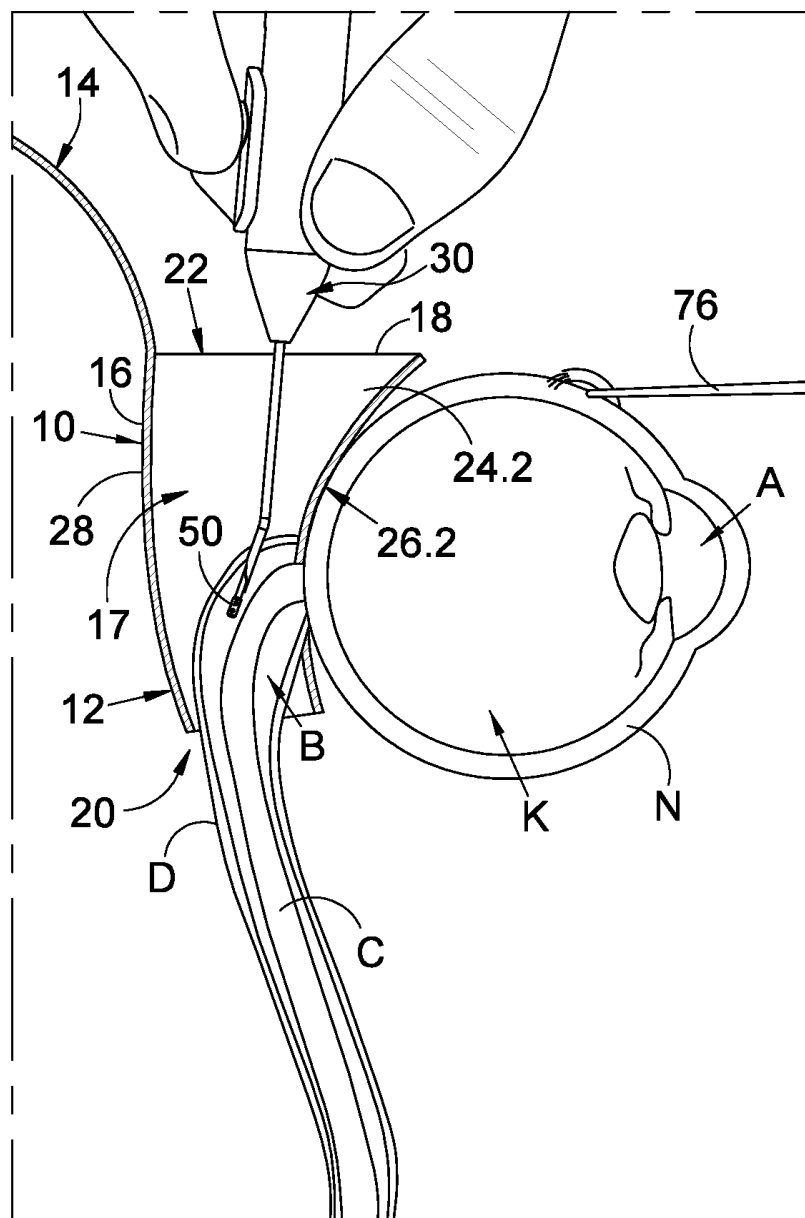


Fig. 9

Publication data including kind & date

WO2018083620	A1	2018-05-11	WO201883620
WO2018083619	A1	2018-05-11	WO201883619



Abstract

(WO201883620)

A **shunt** 10 for implantation in the human body for treating **ocular** disorders related to disorders of intraocular or intracranial pressure by providing for flow of aqueous fluid in the anterior chamber A of the eye and cerebrospinal fluid in the subarachnoid space B surrounding the optic nerve C. The **shunt** has a proximal end 12 which is implanted in the **ocular** anterior chamber and a distal end 14 which is implanted in the subarachnoid space. The **shunt** has a two-part construction, including a flexible distal tube 18 and a rigid proximal tube 20. The distal tube has a distal stop formation 26 near the distal end 14 which is located in the subarachnoid space upon implantation of the distal end, resisting withdrawal of the **shunt**. The proximal tube has a curved portion which conforms to the anatomical curvature of the **ocular** globe.

Inventors

MCCLUNAN DAEMON BRUCE

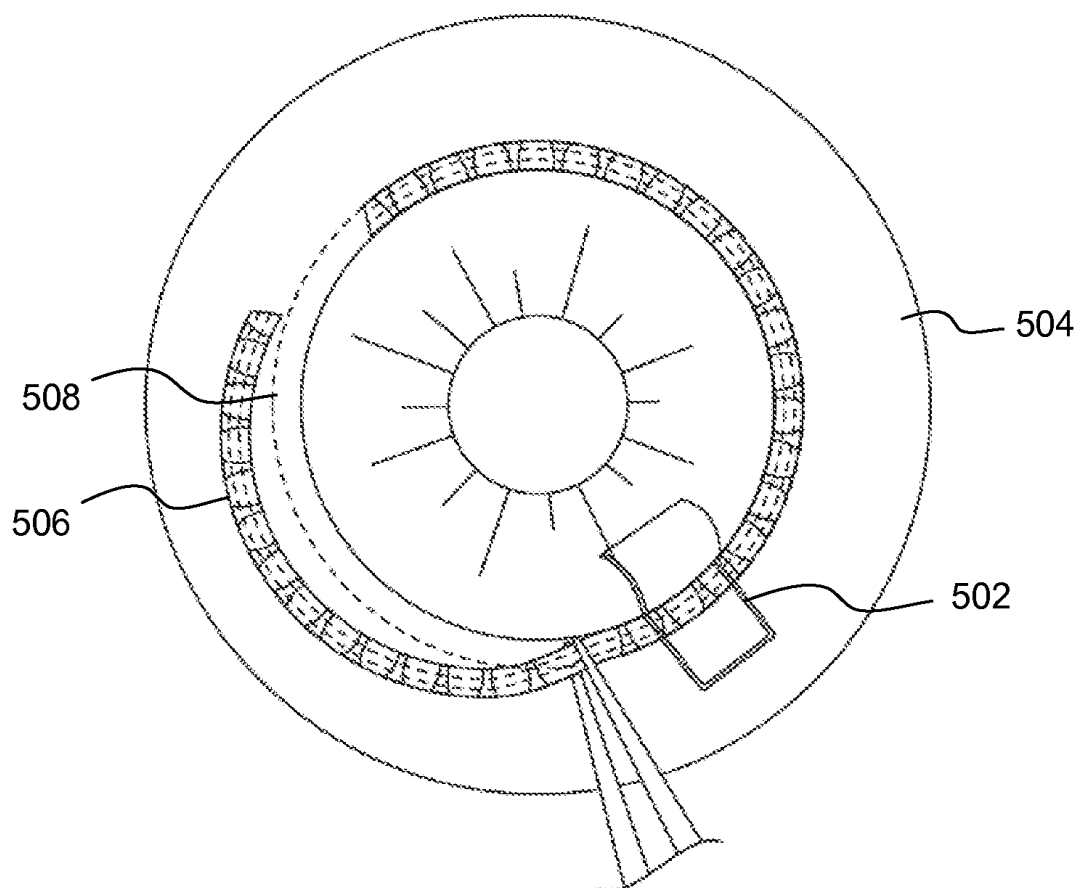
Latest standardized assignees - inventors removed

LIQID MEDICAL PTY

Family 5/100 - FAMPAT - ©Questel

Title

(EP3094291)

Schlemm's canal **stent**-sieve**Images****Publication data including kind & date**

CA2936659	A1	2015-07-23	CA2936659
WO2015108970	A1	2015-07-23	WO2015108970
AU2015206573	A1	2016-09-01	AU2015206573
KR20160108469	A	2016-09-19	KR20160108469
US20160331588	A1	2016-11-17	US20160331588
EP3094291	A1	2016-11-23	EP3094291
JP2017501859	A	2017-01-19	JP2017501859
EP3094291	A4	2017-09-20	EP3094291

**Abstract**

(EP3094291)

An **ocular stent** device (100) can include an elongate arcuate body portion (102) configured in size and shape to be inserted into the Schlemm's canal. The body portion (102) can be inserted along an arc of at least 100 degrees of the Schlemm's canal. The body portion (102) can include a plurality of through-holes (104) adapted to direct flow of aqueous humor from a trabecular meshwork to episcleral collector channels of the eye.

Inventors

AMBATI BALAMURALI

CRANDALL ALAN
GALE BRUCE K
LAMBERT CHRISTOPHER
Latest standardized assignees - inventors removed
UNIVERSITY OF UTAH RESEARCH FOUNDATION

Family 6/100 - FAMPAT - ©Questel

Title
(EP2374451)
Histone deacetylase inhibitors (HDAC) that correct protein misfolding and uses thereof

Images

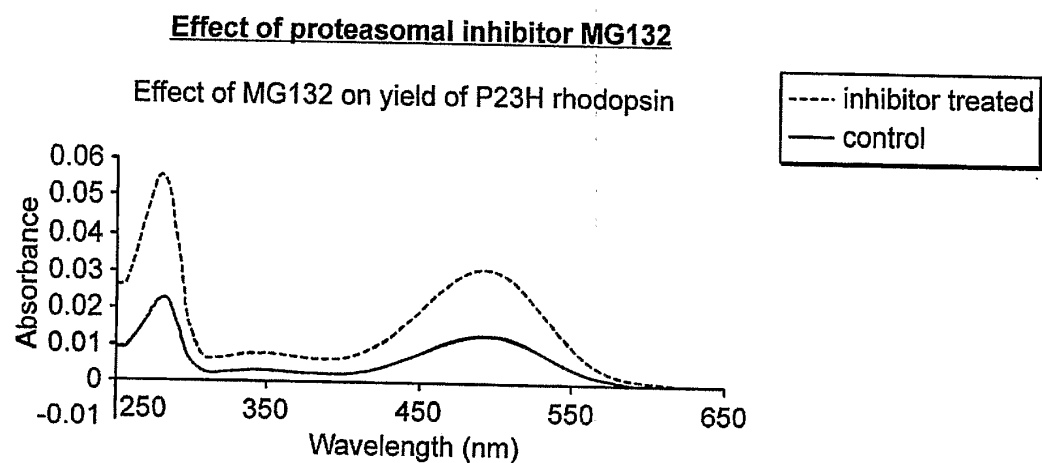


FIG. 1A

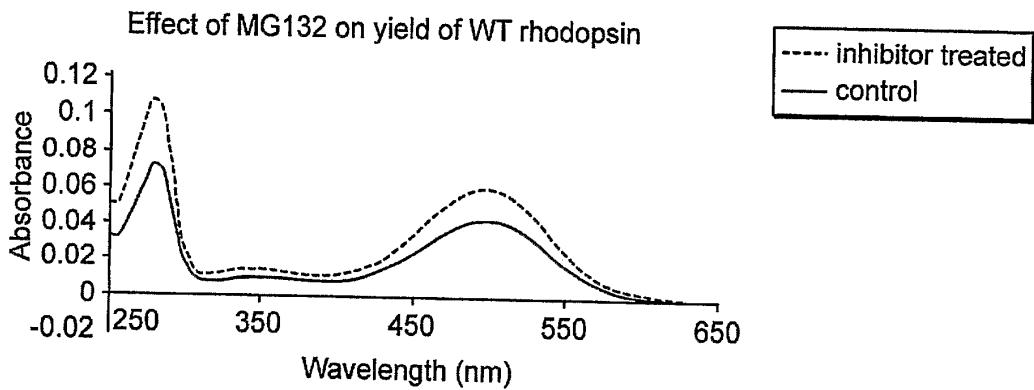


FIG. 1B

Publication data including kind & date

WO2007014327	A2	2007-02-01	WO200714327				
WO2007014323	A2	2007-02-01	WO200714323				
CA2616537	A1	2007-02-01	CA2616537				
CA2616533	A1	2007-02-01	CA2616533				
AU2006272586	A1	2007-02-01	AU2006272586				
AU2006272497	A1	2007-02-01	AU2006272497				
WO2007014323	A3	2007-10-11	WO200714323				
KR20080031474	A	2008-04-08	KR20080031474				
EP1906874	A2	2008-04-09	EP1906874				
KR20080033463	A	2008-04-16	KR20080033463				

EP1909812	A2	2008-04-16	EP1909812				
IL189032	A	2008-08-07	IL-189032				
IL189025	A	2008-08-07	IL-189025				
CN101267779	A	2008-09-17	CN101267779				
IN0761/KOLNP/2008	A	2008-11-21	IN2008KN00761				
JP2009502954	A	2009-01-29	JP2009502954				
JP2009507770	A	2009-02-26	JP2009507770				
IN1290/DELNP/2008	A	2009-03-20	IN2008DN01290				
WO2007014327	A3	2009-04-30	WO200714327				
EP1906874	A4	2009-07-15	EP1906874				
EP1909812	A4	2009-11-25	EP1909812				
CN101600475	A	2009-12-09	CN101600475				
US20100004156	A1	2010-01-07	US20100004156				
US20100068141	A1	2010-03-18	US20100068141				
BRPI0615974	A2	2011-05-31	BR200615974				
BRPI0615962	A2	2011-05-31	BR200615962				
EP2374451	A2	2011-10-12	EP2374451				
NZ565953	A	2012-01-12	NZ-565953				
EP2374451	A3	2012-01-25	EP2374451				
IL189032	B	2012-03-29	IL-189032				
NZ565954	A	2012-03-30	NZ-565954				
AU2006272497	B2	2012-07-19	AU2006272497				

Abstract

(EP2374451)

The invention features compositions and methods that are useful for treating or preventing a protein conformation disease in a subject by correcting misfolded proteins in vivo. In addition, the invention provides compositions and methods that are useful for expressing a recombinant protein in a biochemically functional conformation.

Inventors

KAUSHAL SHALESH

NOORWEZ SYED MOHAMMED

Latest standardized assignees - inventors removed

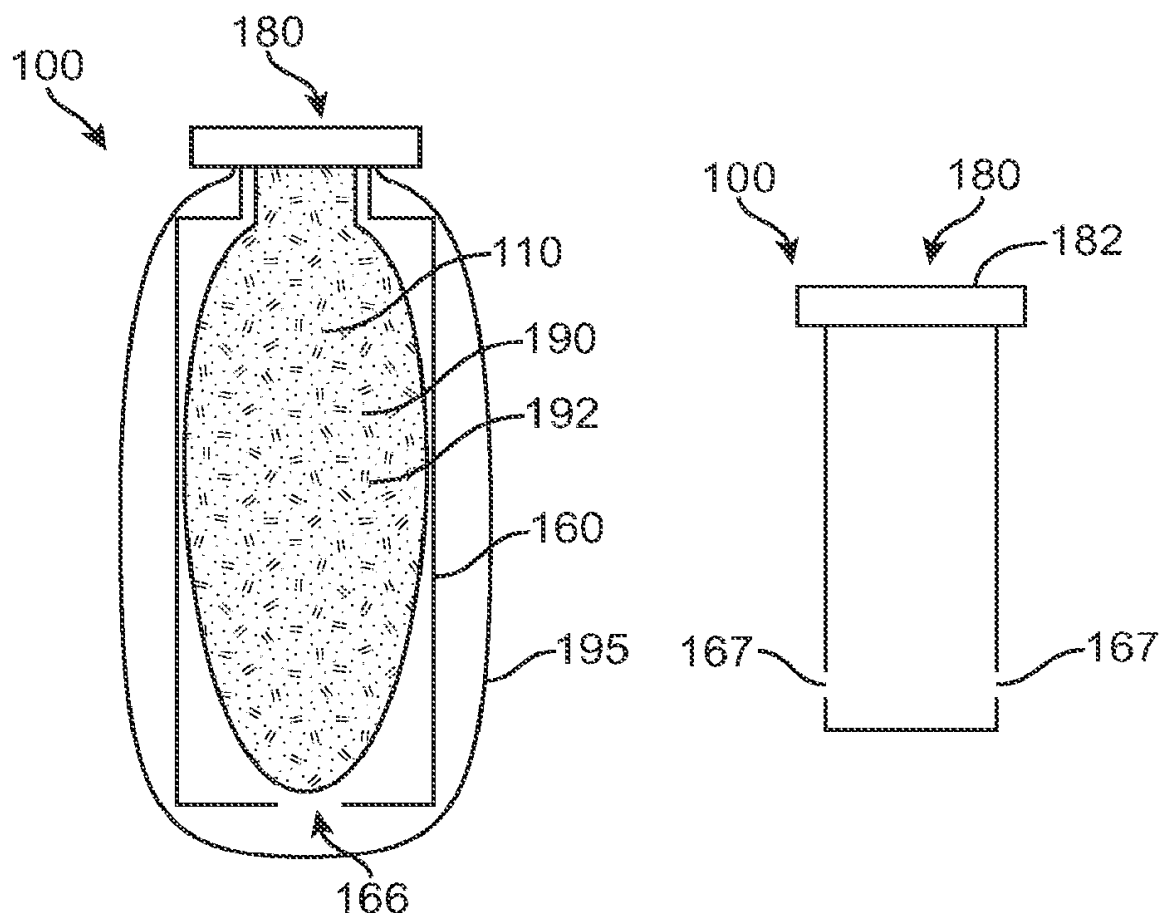
UNIVERSITY OF FLORIDA

Family 7/100 - FAMPAT - ©Questel

Title

(EP2600930)

Injector apparatus and method for drug delivery**Images**



Publication data including kind & date

WO2012019136	A2	2012-02-09	WO201219136
CA2807535	A1	2012-02-09	CA2807535
WO2012019136	A3	2012-06-07	WO201219136
AU2011285545	A1	2013-03-07	AU2011285545
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CN103209733	A	2013-07-17	CN103209733
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EP2600930	A4	2013-12-18	EP2600930
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AU2016200097	A1	2016-02-04	AU2016200097
JP6063382	B2	2017-01-18	JP6063382
AU2016200097	B2	2017-03-02	AU2016200097
JP2017060862	A	2017-03-30	JP2017060862
US9861521	B2	2018-01-09	US9861521
JP6326124	B2	2018-05-16	JP6326124



US20180161202

A1 2018-06-14 US20180161202

Abstract

(EP2600930)

Methods and apparatus provide a therapeutic fluid to devices implanted in the body, for example to containers of devices implanted in the eye of a patient. The methods and apparatus may comprise an **injector** to increase an amount of therapeutic agent **injected** into the device implanted in the eye, or a structure to receive the therapeutic fluid within the device implanted in the eye, or combinations thereof. The device implanted in the eye may comprise a reservoir chamber having a fluid with a density different than the therapeutic fluid, and the apparatus can be adapted to at least partially separate the implanted device fluid from therapeutic fluid within the reservoir chamber to increase an amount of therapeutic fluid placed in the reservoir chamber.

Inventors

DE JUAN EUGENE

ALSTER YAIR

FARINAS KATHLEEN COGAN

MACFARLANE K ANGELA

REICH CARY J

CAMPBELL RANDOLPH E

DOUD DARREN

ERICKSON SIGNE

BARRETT MIKE

BATTEN DAVID

SKIELLER CHRISTINA

STINE GREG

Latest standardized assignees - inventors removed

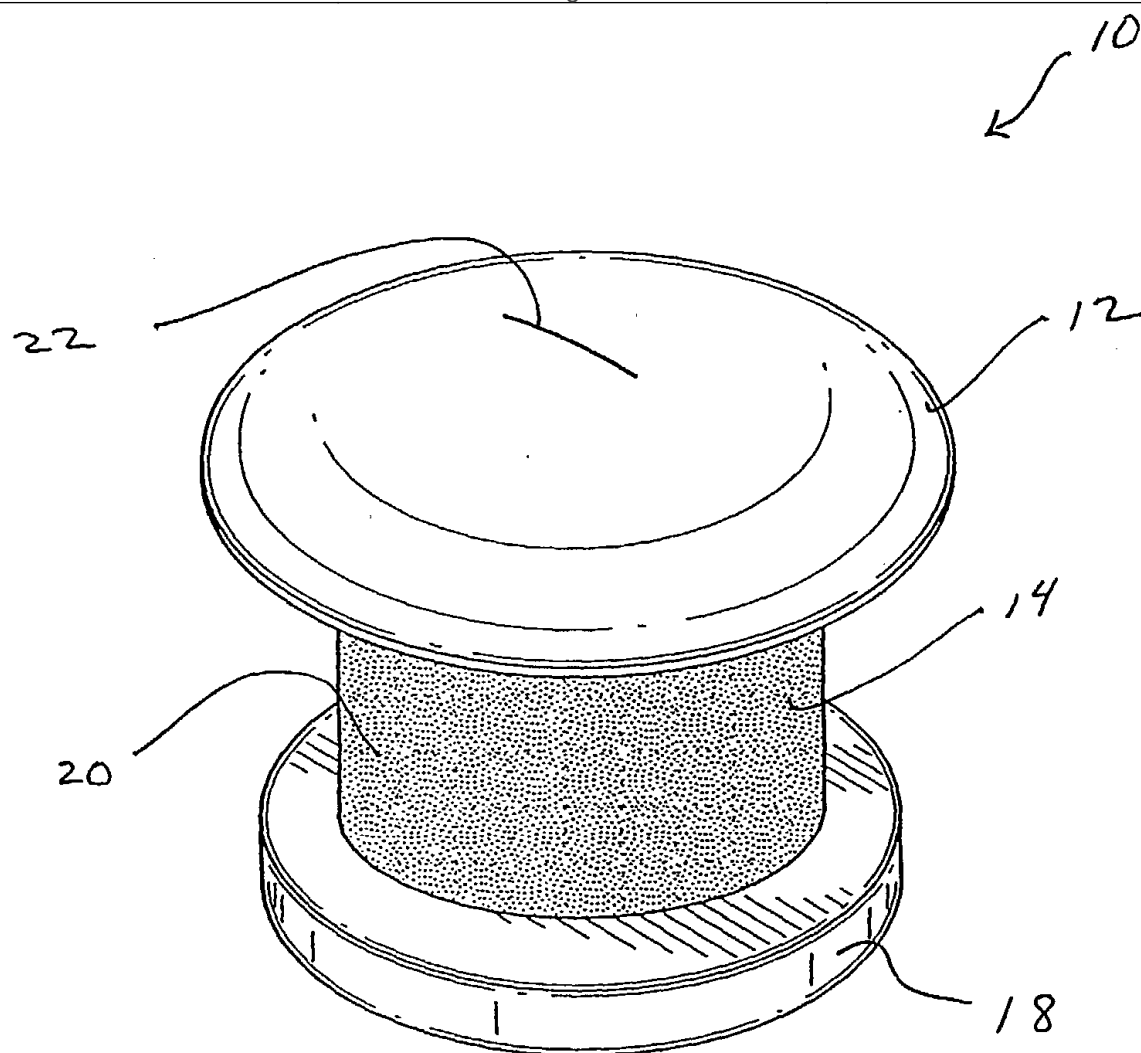
FORSIGHT VISION4

Family 8/100 - FAMPAT - ©Questel

Title

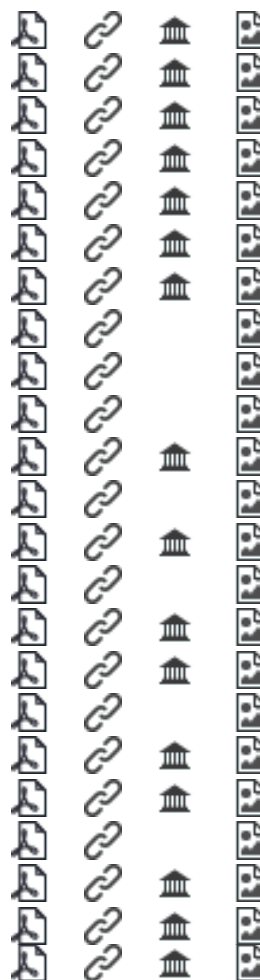
(EP1768628)

Ocular implant and methods for making and using same**Images**



Publication data including kind & date

WO200150943	A2	2001-07-19	WO200150943
CA2397166	A1	2001-07-19	CA2397166
AU2928301	A	2001-07-24	AU200129283
WO200150943	A3	2002-01-03	WO200150943
KR20020063003	A	2002-07-31	KR20020063003
EP1246656	A2	2002-10-09	EP1246656
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ZA200205386	B	2003-05-08	ZA200205386
MXPA02006889	A	2003-05-23	MX2002PA006889
JP2003520077	A	2003-07-02	JP2003520077
HU0301786	A2	2003-10-28	HU200301786
US20030212383	A1	2003-11-13	US20030212383
RU2002118596	A	2004-01-20	RU2002118596
BR0107591	A	2004-07-27	BR200107591
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NZ520099	A	2005-03-24	NZ-520099
CN1620316	A	2005-05-25	CN1620316
RU2262331	C2	2005-10-20	RU2262331
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CA2569377	A1	2005-12-15	CA2569377				
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WO2005117780	A3	2006-04-06	WO2005117780				
IN0794/KOL/2005	A	2007-01-12	IN2005KO00794				
MXPA06013942	A	2007-03-15	MX2006PA013942				
KR20070035529	A	2007-03-30	KR20070035529				
EP1768628	A2	2007-04-04	EP1768628				
IL179700	A	2007-05-15	IL-179700				
IN3696/KOLNP/2006	A	2007-06-15	IN2006KN03696				
CN101001589	A	2007-07-18	CN101001589				
IN208391	B	2007-07-27	IN-208391				
KR100778908	B1	2007-11-27	KR100778908				
ZA200610492	B	2007-11-28	ZA200610492				
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BRPI0511758	A1	2008-01-08	BRPI0511758				
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IL150630	B	2011-01-31	IL-150630				

Abstract

(EP1768628)

An **ocular** implant device (10) that is insertable into either the anterior or posterior chamber of the eye to drain aqueous humor and/or to introduce medications. The implant can include a substantially cylindrical body (14) with a channel member that regulates the flow rate of aqueous humor from the anterior chamber or introduces medications into the posterior chamber, and simultaneously minimizes the ingress of microorganisms into the eye.

Inventors

BENE ERIC A

MORRILL TIM J

MULHERN MARGARET B

WANDEL THADDEUS L

TAYLOR JON B

MIR LEON

Latest standardized assignees - inventors removed

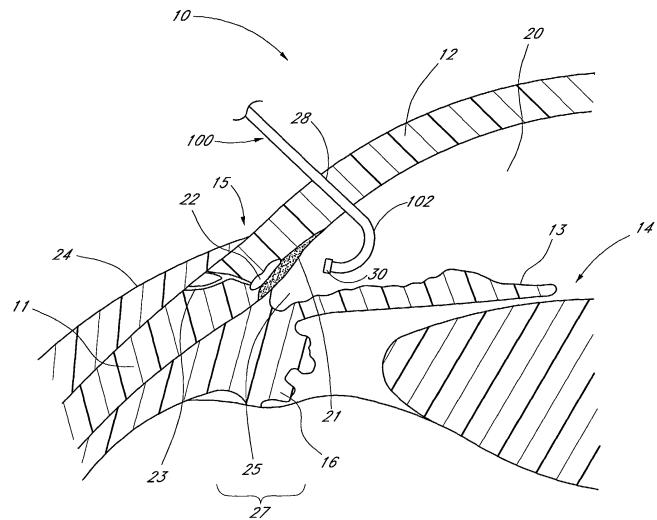
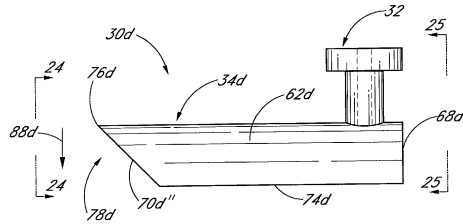
BECTON DICKINSON & COMPANY

Family 9/100 - FAMPAT - ©Questel

Title

(EP2982354)

System for treating **ocular** disorders**Images**



Publication data including kind & date

WO02080811	A2	2002-10-17	WO200280811
CA2718294	A1	2002-10-17	CA2718294
CA2683224	A1	2002-10-17	CA2683224
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EP1418868	A2	2004-05-19	EP1418868
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EP2263621	A1	2010-12-22	EP2263621
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JP6416815	B2	2018-10-31	JP6416815				
US20190030302	A1	2019-01-31	US20190030302				

Abstract

(EP2982354)

The invention relates generally to medical devices and methods for reducing the intraocular pressure in an animal eye and, more particularly, to **stent** type devices for permitting aqueous outflow from the eye's anterior chamber and associated methods thereof for the treatment of glaucoma. Some aspects provide a self-trephining glaucoma **stent** and methods thereof which advantageously allow for a "one-step" procedure in which the incision and placement of the **stent** are accomplished by a single device and operation. This desirably allows for a faster, safer, and less expensive surgical procedure.

Inventors

NIKSCH BARBARA A

HAFFNER DAVID

HILL RICHARD A DR

SMEDLEY GREGORY T

TU HOSHENG

BERGHEIM OLAF B

Latest standardized assignees - inventors removed

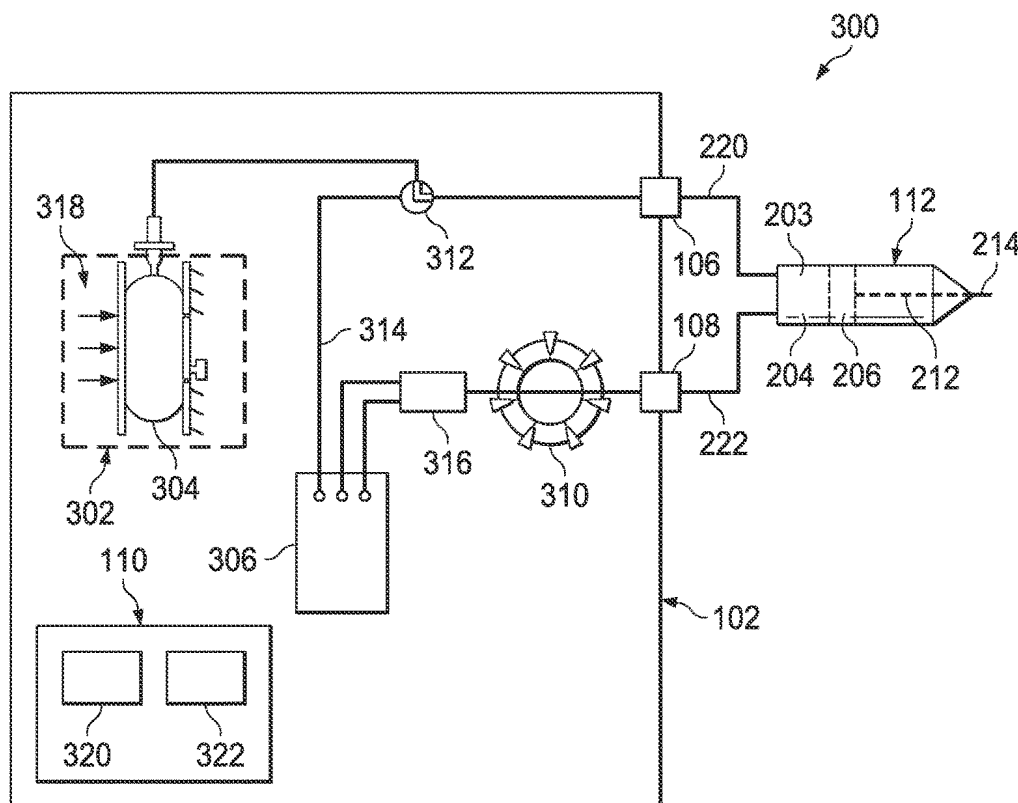
GLAUKOS

Family 10/100 - FAMPAT - ©Questel

Title

(EP3310300)

Hydraulic **injector** and methods for intra-**ocular** lens insertion**Images**



Publication data including kind & date

US20170071787	A1	2017-03-16	US20170071787
CA2992949	A1	2017-03-23	CA2992949
WO2017046661	A1	2017-03-23	WO201746661
AU2016322710	A1	2018-02-01	AU2016322710
CN107920892	A	2018-04-17	CN107920892
EP3310300	A1	2018-04-25	EP3310300
JP2018527078	A	2018-09-20	JP2018527078
US10182939	B2	2019-01-22	US10182939



Abstract

(EP3310300)

A hydraulically-driven Intra-Ocular Lens insertion tool (112) includes a body (202), a hydraulic chamber (204) within the body, a first fluid port (208), a second fluid port (210). Fluid may be pumped in through an irrigation line (220) connected to the hydraulic chamber through the first fluid port and/or an aspiration line (222) can be connected to the hydraulic chamber through the second fluid port. A piston (206) is positioned within the hydraulic chamber and arranged to move within the hydraulic chamber in response to the introduction or removal of fluid from the hydraulic chamber. An elongated member (212) that includes a distal end (214) comprising an intra-ocular lens interface (216) and a proximal end (218) is connected to the piston such that movement of the piston within the hydraulic chamber causes corresponding movement of the elongated member. The hydraulically-driven Intra-Ocular Lens insertion tool can be connected to a surgical console (102).

Inventors

CANELLI HUGH B
 CHANDRAKANT PARTHA
 CHON JAMES Y
 GORDON RAPHAEL
 SORENSEN GARY P

WILSON DANIEL J

Latest standardized assignees - inventors removed

NOVARTIS

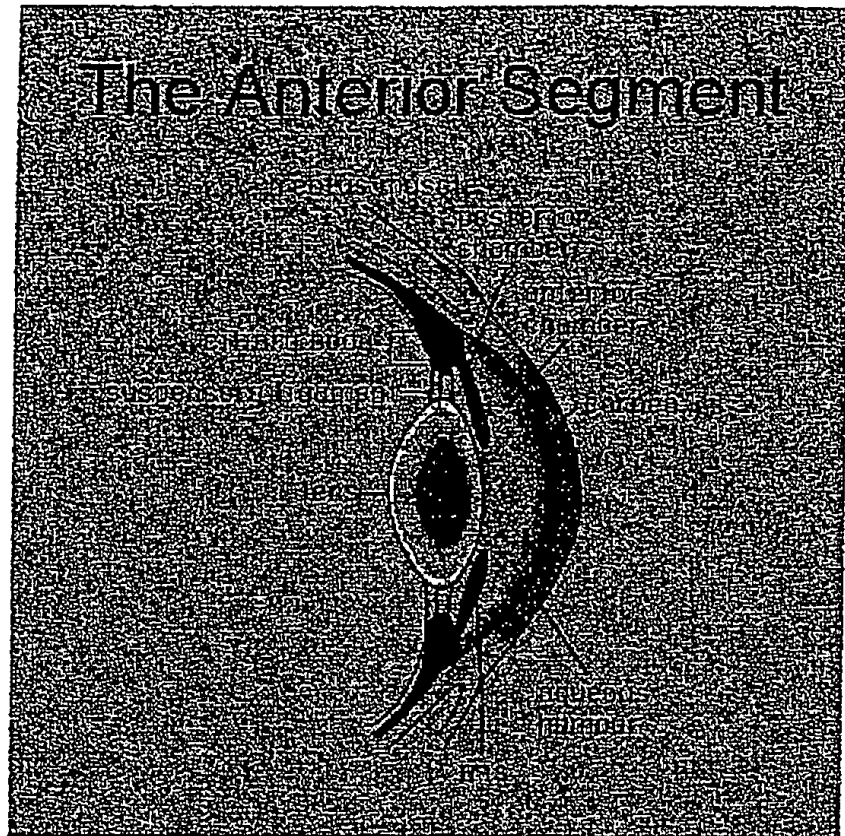
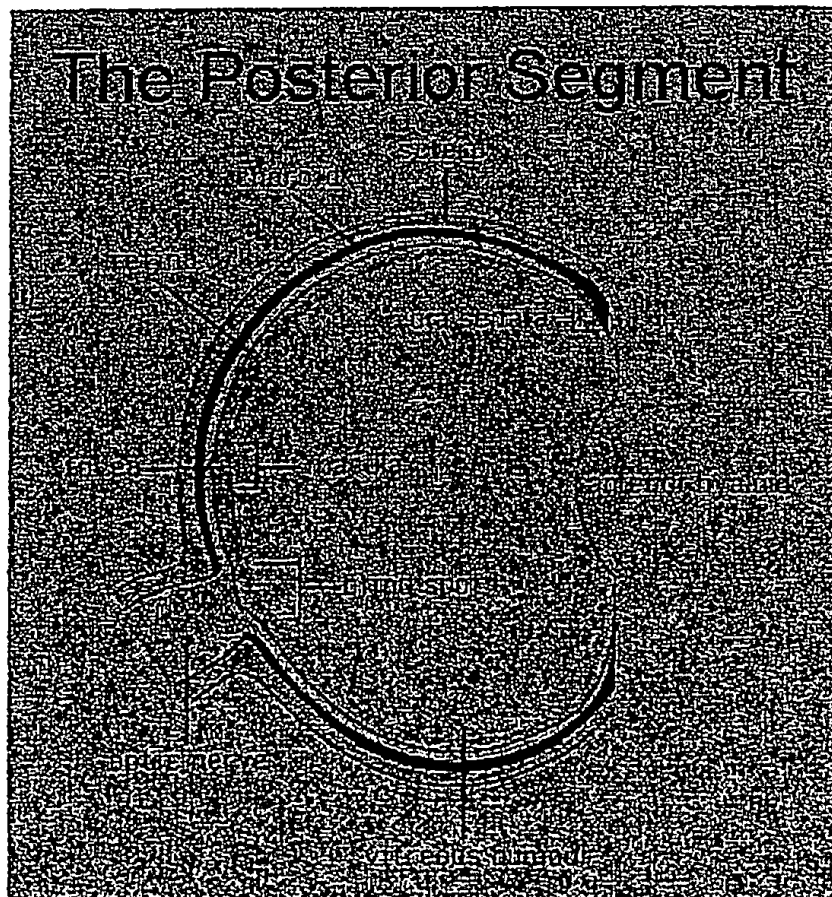
Family 11/100 - FAMPAT - ©Questel

Title

(EP2662089)

Compstatin and analogs thereof for eye disorders

Images

Figure 1A**Figure 1B**

CA2625206	A1	2007-04-19	CA2625206				
AU2006302212	A1	2007-04-19	AU2006302212				
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WO2007044668	A3	2008-01-17	WO200744668				
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EP1951279	A2	2008-08-06	EP1951279				
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EP1993673	A2	2008-11-26	EP1993673				
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(EP2662089)

The present invention features the use of compstatin and complement inhibiting analogs thereof for treating and/or preventing age related macular degeneration and other conditions involving macular degeneration, choroidal neovascularization, and/or retinal neovascularization. The invention also provides compositions comprising compstatin or a complement inhibiting analog thereof and a second therapeutic agent. The invention also provides compositions comprising compstatin or a complement inhibiting analog thereof and a gel-forming material, e.g., soluble collagen, and methods of administering the compositions.

Inventors

DESCHATELETS PASCAL

OLSON PAUL

FRANCOIS CEDRIC

Latest standardized assignees - inventors removed

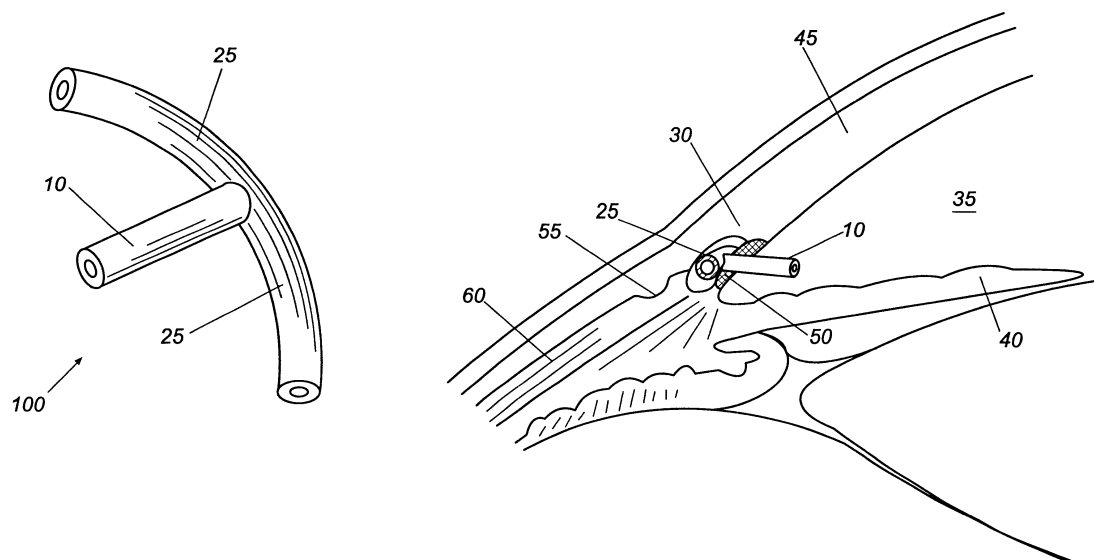
APELLIS PHARMACEUTICALS

POTENTIA PHARMACEUTICALS

Family 12/100 - FAMPAT - ©Questel

Title

(EP3141226)

Shunt device for treating glaucoma**Images****Publication data including kind & date**

WO200064391	A1	2000-11-02	WO200064391
WO200064393	A1	2000-11-02	WO200064393
WO200064390	A1	2000-11-02	WO200064390
WO200064389	A1	2000-11-02	WO200064389
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AU4371300	A	2000-11-10	AU200043713
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(EP3141226)

The present invention relates to a **shunt** adapted to facilitate the passage of aqueous humor from the anterior chamber to Schlemm's canal, comprising: a body of biocompatible material having a size and shape adapted to be at least partially circumferentially received within a portion of Schlemm's canal to divert aqueous humor from the anterior chamber of the human eye to and within Schlemm's canal; the body comprising a distal portion and a proximal portion; wherein the body defines a trough-like channel that is at least partially open for directing aqueous humor; and wherein the body is adapted, when in use, to facilitate the passage of aqueous humor from the anterior chamber into Schlemm's canal without the proximal portion extending into the anterior chamber.

Inventors

BROWN REAY H

LYNCH MARY G

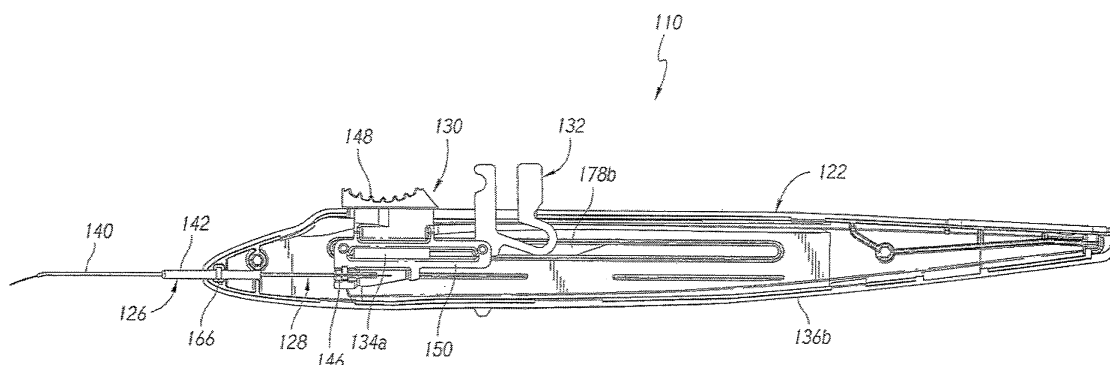
Latest standardized assignees - inventors removed

GLAUKOS

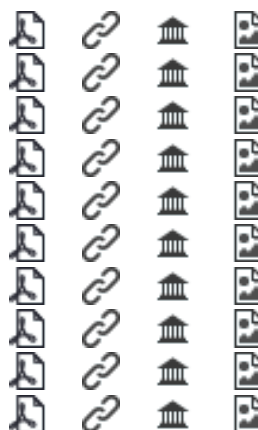
Family 13/100 - FAMPAT - ©Questel

Title

(EP2967993)

Systems for delivering an **ocular** implant to the suprachoroidal space within an eye**Images****Publication data including kind & date**

CA2904068	A1	2014-09-25	CA2904068
WO2014151070	A1	2014-09-25	WO2014151070
US20150065940	A1	2015-03-05	US20150065940
AU2014235331	A1	2015-10-01	AU2014235331
EP2967993	A1	2016-01-20	EP2967993
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US10188551	B2	2019-01-29	US10188551

**Abstract**

(EP2967993)

Delivery devices, systems and methods are provided for inserting an implant into an eye. The delivery or inserter devices or systems can be used to dispose or implant an **ocular stent** or implant, such as a **shunt**, in communication with a suprachoroidal space of the eye. The implant can drain fluid from an anterior chamber of the eye to a physiologic outflow path of the eye, such as, the suprachoroidal space or other portion of the uveoscleral outflow path. The delivery or inserter devices or systems can be used in conjunction with other **ocular** surgery, for example, but not limited to, cataract surgery—through a preformed corneal incision, or independently with the inserter configured to make a corneal incision. The implant

can be preloaded with or within the inserter to advantageously provide a sterile, easy-to-use package for use by an operator.

Inventors

RANGEL-FRIEDMAN GARY

HAFFNER DAVID S

Latest standardized assignees - inventors removed

GLAUKOS

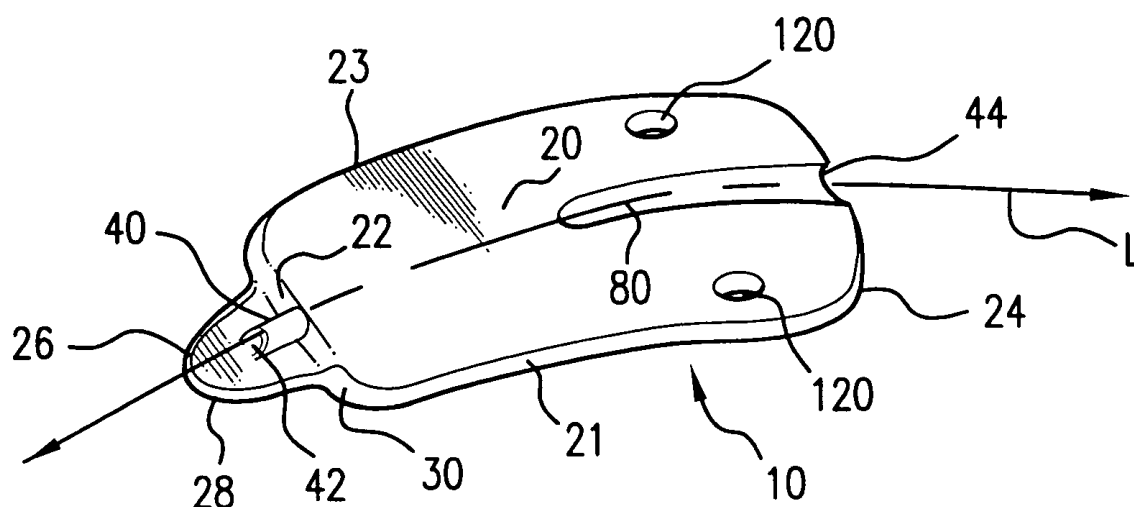
Family 14/100 - FAMPAT - ©Questel

Title

(EP2286773)

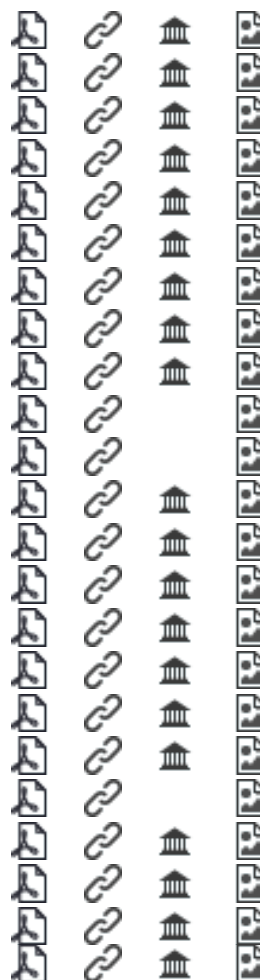
Uveoscleral drainage device

Images



Publication data including kind & date

US20040015140	A1	2004-01-22	US20040015140
WO2004008945	A2	2004-01-29	WO2004008945
CA2744117	A1	2004-01-29	CA2744117
CA2493010	A1	2004-01-29	CA2493010
AU2003256657	A1	2004-02-09	AU2003256657
AU2003256657	A8	2004-02-09	AU2003256657
WO2004008945	A9	2004-06-10	WO2004008945
WO2004008945	A3	2005-02-03	WO2004008945
EP1534363	A2	2005-06-01	EP1534363
MXPA05000807	A	2005-06-17	MX2005PA000807
ZA200501458	B	2005-09-07	ZA200501458
CN1684728	A	2005-10-19	CN1684728
US7041077	B2	2006-05-09	US7041077
US20060155238	A1	2006-07-13	US20060155238
EP1534363	A4	2006-09-13	EP1534363
BR0312816	A	2007-06-26	BR200312816
BRPI0312816	A1	2007-06-26	BRPI0312816
EP1534363	B1	2008-12-31	EP1534363
AT419026	T	2009-01-15	ATE419026
DE60325606	D1	2009-02-12	DE60325606
EP2039380	A2	2009-03-25	EP2039380
ES2320121	T3	2009-05-19	ES2320121



US7662123	B2	2010-02-16	US7662123				
CN100591372	C	2010-02-24	CN100591372C				
HK1084313	A1	2010-06-25	HK1084313				
BRPI0312816	A2	2010-07-27	BR200312816				
CN101791258	A	2010-08-04	CN101791258				
EP2286773	A1	2011-02-23	EP2286773				
EP2039380	A3	2011-02-23	EP2039380				
CA2493010	C	2011-09-13	CA2493010				
EP2039380	B1	2012-03-21	EP2039380				
AT550056	T	2012-04-15	ATE550056				
EP2286773	B1	2012-10-17	EP2286773				

Abstract

(EP2286773)

An ophthalmic **shunt** (10) implantable in an eye having an elongate body (20) and a conduit (40) for conducting aqueous humor from an anterior chamber of the eye to the suprachoroidal space of the eye. The elongate body has a forward end (22) and an insertion head (26) that extends from the forward end. The insertion head defines a shearing edge (28) suitable for cutting eye tissue engage thereby. The forward end and the insertion head of the body define a shoulder surface (30). The conduit has a first end defined on a portion of a top surface of the insertion head. The conduit also extends through the body from the forward end to a back end thereof. The first end of the conduit is spaced from the shearing edge and, in one example, from the shoulder of the body.

Inventors

SHIELDS MILTON B

Latest standardized assignees - inventors removed

YALE UNIVERSITY

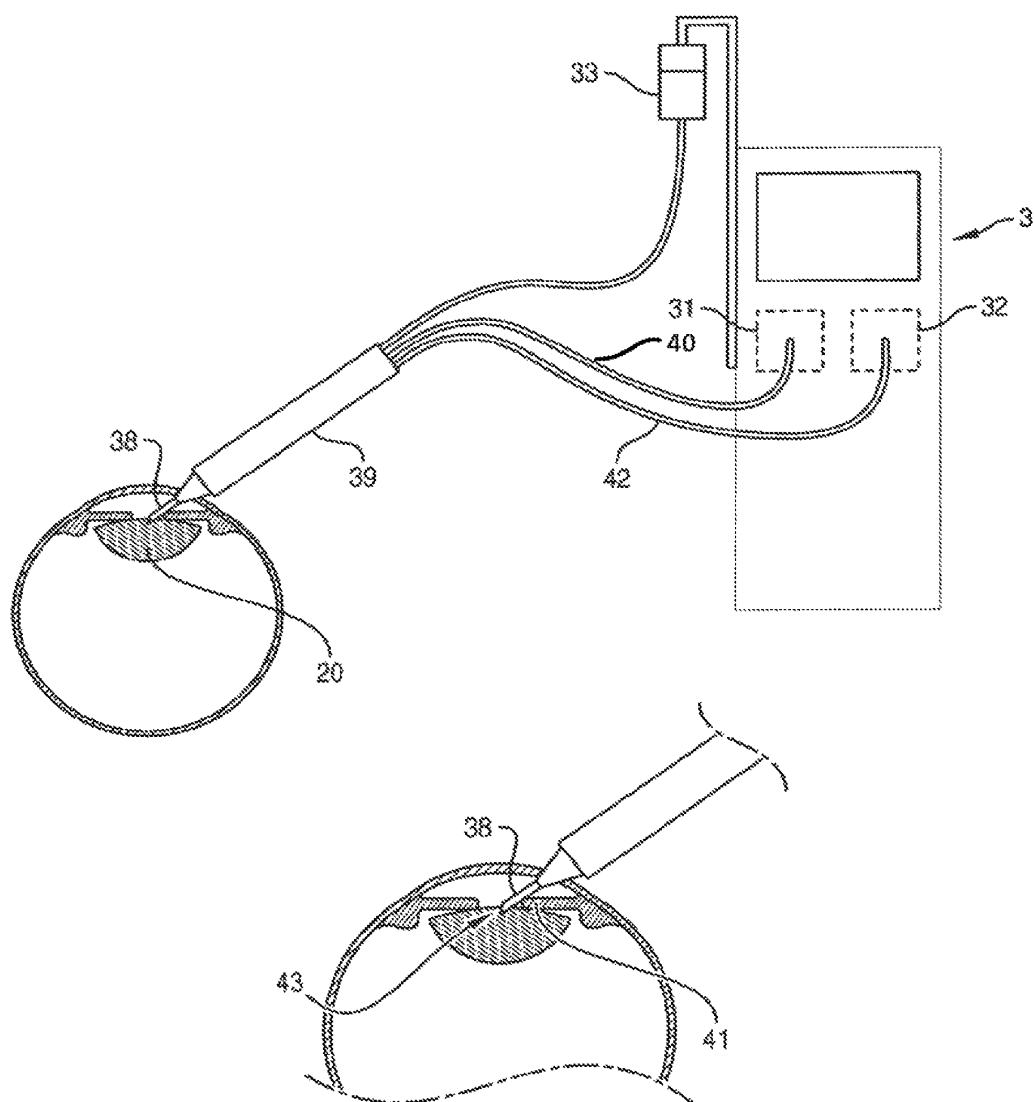
Family 15/100 - FAMPAT - ©Questel

Title

(EP2398433)

Phacoemulsificator applying ultrasound to an **ocular** globe

Images



Publication data including kind & date

EP2092916	A1	2009-08-26	EP2092916				
WO2009103721	A1	2009-08-27	WO2009103721				
CA2714116	A1	2009-08-27	CA2714116				
AU2009216751	A1	2009-08-27	AU2009216751				
WO2010094353	A1	2010-08-26	WO201094353				
CA2751908	A1	2010-08-26	CA2751908				
WO2010094349	A1	2010-08-26	WO201094349				
CA2751906	A1	2010-08-26	CA2751906				
MX2010009027	A	2010-12-07	MX2010009027				
EP2257251	A1	2010-12-08	EP2257251				
IL207425	A	2010-12-30	IL-207425				
KR20100138934	A	2010-12-31	KR20100138934				
US20110009779	A1	2011-01-13	US20110009779				
CN101969899	A	2011-02-09	CN101969899				
IN5180/CHENP/2010	A	2011-03-11	IN2010CN05180				
JP2011512213	A	2011-04-21	JP2011512213				
BRPI0908386	A2	2011-08-30	BR200908386				
AU2009340220	A1	2011-09-01	AU2009340220				

MX2011008705	A	2011-09-06	MX2011008705				
IL214456	A	2011-09-27	IL-214456				
KR20110126662	A	2011-11-23	KR20110126662				
US20110301507	A1	2011-12-08	US20110301507				
US20110301469	A1	2011-12-08	US20110301469				
EP2398433	A1	2011-12-28	EP2398433				
EP2398432	A1	2011-12-28	EP2398432				
CN102316834	A	2012-01-11	CN102316834				
RU2010138619	A	2012-03-27	RU2010138619				
JP2012517868	A	2012-08-09	JP2012517868				
BRPI0924350	A1	2012-11-20	BR200924350				
IN6724/DELNP/2011	A	2012-12-14	IN2011DN06724				
RU2011138181	A	2013-03-27	RU2011138181				
AU2009340220	B2	2013-07-18	AU2009340220				
EP2257251	B1	2013-07-31	EP2257251				
DK2257251	T3	2013-09-30	DK2257251T				
ES2426120	T3	2013-10-21	ES2426120				
RU2501539	C2	2013-12-20	RU2501539				
CN101969899	B	2014-04-09	CN101969899B				
JP2014061381	A	2014-04-10	JP2014061381				
RU2515509	C2	2014-05-10	RU2515509				
JP5490826	B2	2014-05-14	JP5490826				
IL207425	B	2014-07-31	IL-207425				
CN102316834	B	2014-09-24	CN102316834B				
JP5819372	B2	2015-11-24	JP5819372				
US9259597	B2	2016-02-16	US9259597				
KR101601798	B1	2016-03-09	KR101601798				
KR101638140	B1	2016-07-11	KR101638140				
US9403039	B2	2016-08-02	US9403039				
MX342224	B	2016-09-21	MX-342224				
US9517359	B2	2016-12-13	US9517359				
CA2714116	C	2017-01-03	CA2714116				
US20170027751	A1	2017-02-02	US20170027751				
EP2398433	B1	2017-09-06	EP2398433				
EP2398432	B1	2017-09-06	EP2398432				
CA2751906	C	2018-03-27	CA2751906				
US9931245	B2	2018-04-03	US9931245				
BRPI0924350	A2	2019-01-22	BRPI0924350				

Abstract

(EP2398433)

The present invention relates to aphacoemulsificator for the removal of lens tissue, said phacoemulsificator comprising: a power source configured to provide pulsed electrical power, and a pump configured to provide vacuum, characterized in that it comprises at least one eye ring (1) connectable to the pump wherein the proximal end of said eye ring (1) is suitable to be applied onto an **ocular** globe and means (2) to generate ultrasound beam connectable to the power source wherein said means are fixed on the distal end of the eye ring (1).

Inventors

ROMANO FABRIZIO

CHAPUIS PHILIPPE

FARCY LAURENT

CHARREL THOMAS

Latest standardized assignees - inventors removed

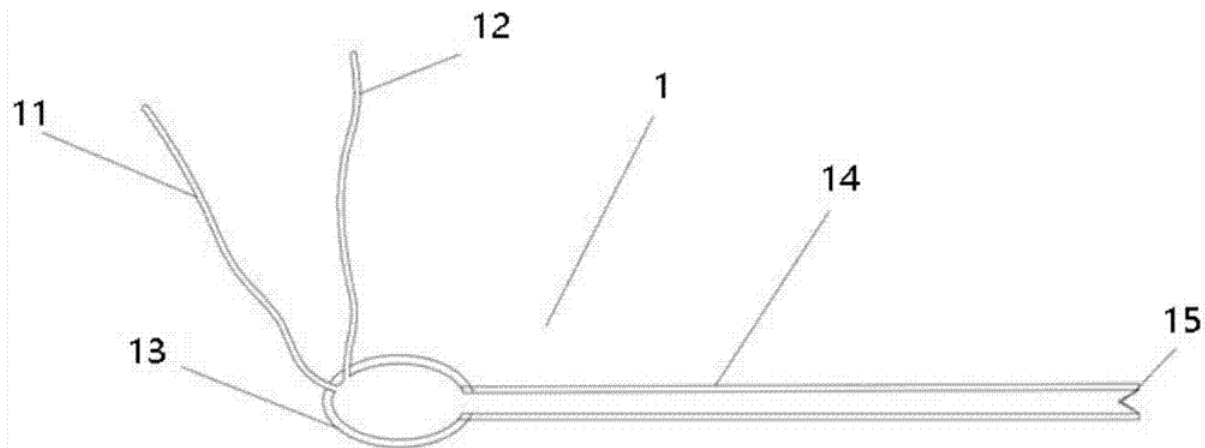
INSERM - INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

EYE TECHNOLOGY CARE

Family 16/100 - FAMPAT - ©Questel

Title

(CN108635089)

Air-**injection** type lacrimal **stent** supporting device**Images****Publication data including kind & date**[CN108635089](#)

A 2018-10-12 CN108635089

**Abstract**

(CN108635089)

The invention relates to an air-**injection** type lacrimal **stent** supporting device. The lacrimal **stent** supporting device comprises a lacrimal **stent** and an air-**injection** needle. The lacrimal **stent** comprises an upper lacrimal ductule part, a lower lacrimal ductule part, a lacrimal sac part, a nasolacrimal duct part and an air-**injection** hole; the upper lacrimal ductule part and the lower lacrimal ductule part are both of a hollow structure and are communicated with the lacrimal sac part; the lacrimal sac part is communicated with the nasolacrimal duct part; one end of the nasolacrimal duct part is communicated with the lacrimal sac part, and the air-**injection** hole is formed in the other end of the nasolacrimal duct part. The air-**injection** needle comprises an air-**injection** needle body, an air-**injection** cylinder, an LED lamp, a piston and an LED lamp switch. The air-**injection** type lacrimal **stent** supporting device has the advantages that by adjusting the thickness of the **stent**, inflammatory substances in a lacrimal passage are helped to be washed, and the functions of the sphincter of the lacrimal passage are exercised; the operation is simple and convenient, a patient can operate the supporting device by himself/herself at home, the medical cost is greatly reduced, the epiphora state of the patient can be better improved, the life quality of the patient is improved, and meanwhile, the recurrence rate of obstruction of the lacrimal passage is reduced.

Inventors

BI YANLONG

ZHANG JUAN

ZHENG CHANGYUE

NIU GUOZHEN

Latest standardized assignees - inventors removed

TONGJI HOSPITAL

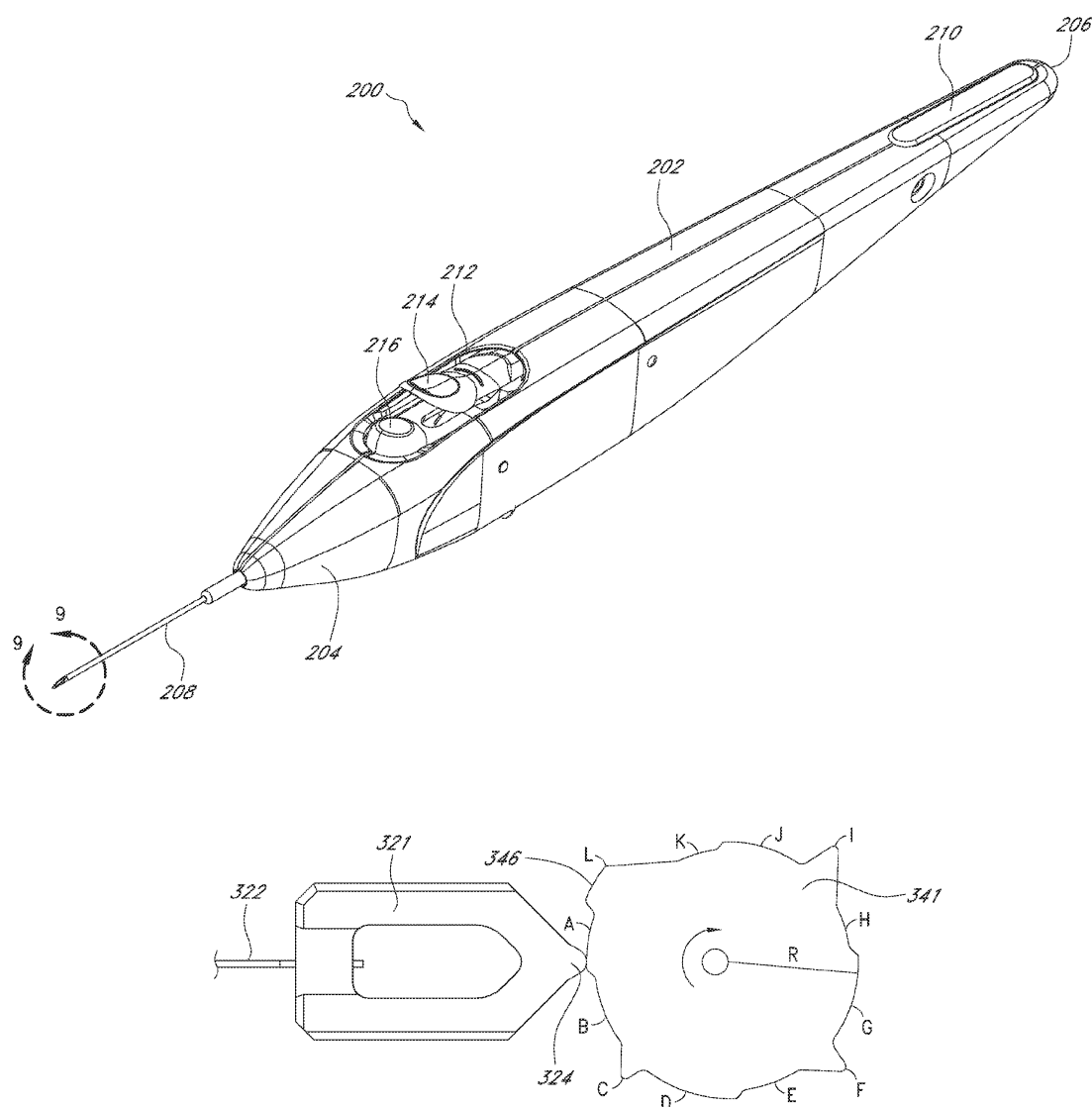
Family 17/100 - FAMPAT - ©Questel

Title

(EP3342380)

System and method for delivering multiple **ocular** implants

Images



Publication data including kind & date

US20130253528	A1	2013-09-26	US20130253528
CA2868341	A1	2013-10-03	CA2868341
WO2013148275	A2	2013-10-03	WO2013148275
WO2013148275	A3	2013-11-28	WO2013148275
WO2013148275	A9	2014-09-25	WO2013148275
EP2830553	A2	2015-02-04	EP2830553
US20150038893	A1	2015-02-05	US20150038893
JP2015517836	A	2015-06-25	JP2015517836
US9173775	B2	2015-11-03	US9173775
US20160151204	A1	2016-06-02	US20160151204
US9554940	B2	2017-01-31	US9554940
JP2017148603	A	2017-08-31	JP2017148603
EP2830553	B1	2017-12-27	EP2830553
EP3342380	A2	2018-07-04	EP3342380
EP3342380	A3	2018-11-14	EP3342380
JP6465490	B2	2019-02-06	JP6465490



Abstract

(EP3342380)

Systems and methods for delivering multiple **ocular** implants to reduce intraocular pressure are disclosed. The **ocular** implants can be implanted at multiple sites within a single human eye without requiring removal of the delivery apparatus from the eye. A system for delivering multiple **ocular** implants can include at least two implants preloaded within a delivery device and configured to be implanted within the eye, a metering device configured to transfer energy to the implants for delivery at selected locations within the eye, wherein the metering device is configured to meter a variable amount of energy for each implant delivery event in the eye. The system can further include an **injector** mechanism configured to serially engage and drive each of the implants.

Inventors

HAFFNER DAVID STEVEN

GILLE HENRICK K

KALINA JR CHARLES RAYMOND

COGGER JOHN JOSEPH

Latest standardized assignees - inventors removed

GLAUKOS

Family 18/100 - FAMPAT - ©Questel

Title

(WO201395790)

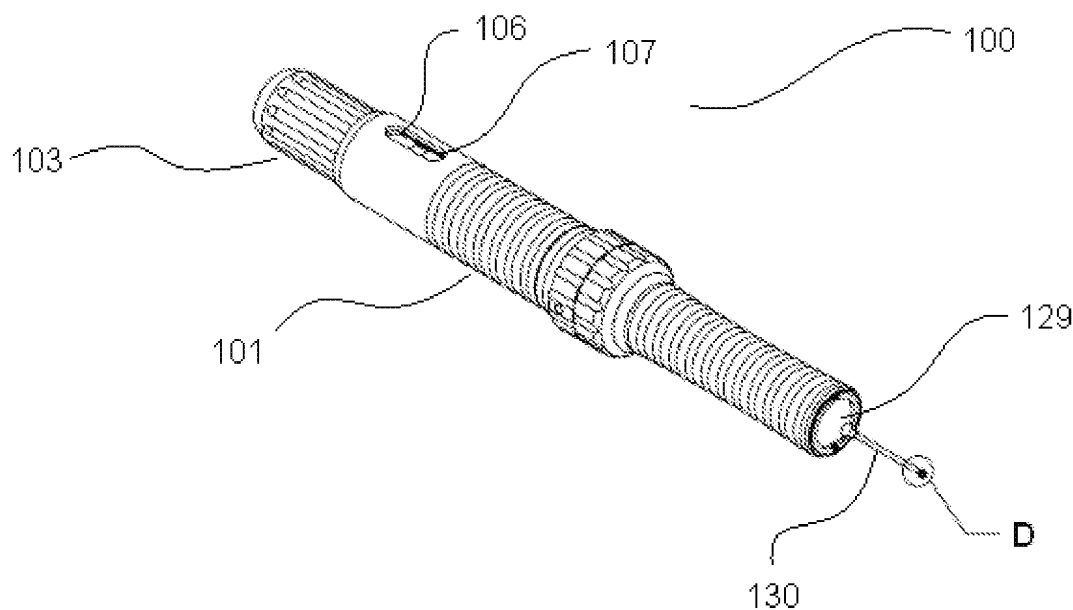
Devices and methods for implanting a **shunt** in the suprachoroidal space**Images**

Figure 1A

Publication data including kind & date[WO2013095790](#) A2 2013-06-27 [WO201395790](#)[WO2013095790](#) A3 2015-06-18 [WO201395790](#)**Abstract**

(WO201395790)

The invention generally relates to devices and methods for implanting a **shunt** in the suprachoroidal space of an eye. In certain aspects, devices of the invention include a housing, a deployment mechanism at least partially disposed within the

housing, and a flexible hollow shaft coupled to the deployment mechanism, in which the shaft holds an intraocular **shunt**, and is configured to self-guide the **shunt** along a scleral spur of an eye as the **shunt** is deployed from the shaft. Such a device may be inserted into an eye and used to deploy a **shunt** within the eye such that a proximal portion of the **shunt** receives fluid from an anterior chamber of an eye and a distal portion of the **shunt** directs the fluid to the suprachoroidal space.

Inventors

HORVATH CHRISTOPHER

BACHE RONALD D

ROMODA LASZLO O

GRABNER GUENTHER

REITSAMER HERBERT A

SAMPLES JOHN R

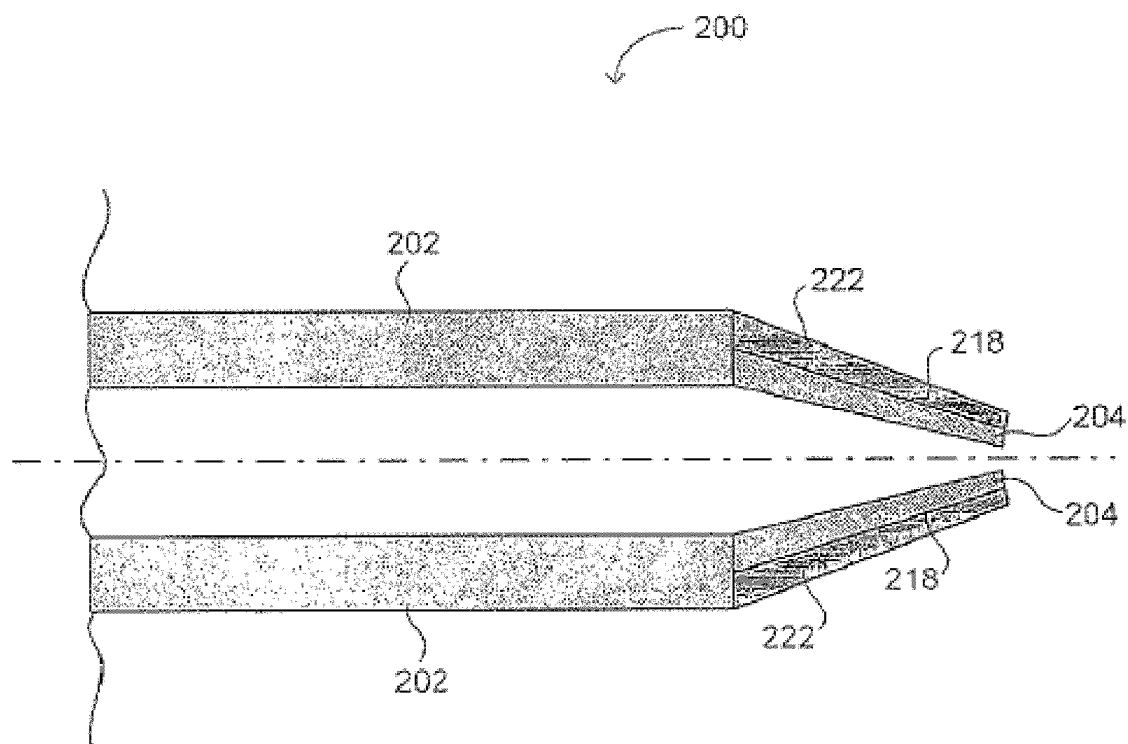
Latest standardized assignees - inventors removed

AQUESYS

Family 19/100 - FAMPAT - ©Questel

Title

(WO201369018)

Ocular implant with intraocular fluid pressure regulation**Images****Publication data including kind & date**

WO2013069018	A2	2013-05-16	WO201369018
WO2013069018	A3	2013-07-18	WO201369018
US20140343476	A1	2014-11-20	US20140343476
US9757276	B2	2017-09-12	US9757276

**Abstract**

(WO201369018)

An **ocular** implant comprising a **shunt** and a fluid absorbing conduit for reducing intraocular pressure, and optionally comprising a biodegradable ring.

US20050107734	A1	2005-05-19	US20050107734				
WO2005046782	A1	2005-05-26	WO200546782				
AU2004288609	A1	2005-05-26	AU2004288609				
EP1732634	A1	2006-12-20	EP1732634				
US20070088242	A1	2007-04-19	US20070088242				
US20070106236	A1	2007-05-10	US20070106236				
US20070106235	A1	2007-05-10	US20070106235				
US7291125	B2	2007-11-06	US7291125				
US20080195027	A1	2008-08-14	US20080195027				
EP1732634	A4	2010-06-09	EP1732634				
US7815592	B2	2010-10-19	US7815592				

AU2004288609	B2	2010-10-28	AU2004288609				
US7850638	B2	2010-12-14	US7850638				
US20110028884	A1	2011-02-03	US20110028884				
US20110087151	A1	2011-04-14	US20110087151				
US20110087150	A1	2011-04-14	US20110087150				
US20110087149	A1	2011-04-14	US20110087149				
US8128588	B2	2012-03-06	US8128588				
US8486000	B2	2013-07-16	US8486000				
US8728021	B2	2014-05-20	US8728021				
US8758289	B2	2014-06-24	US8758289				
US20140188030	A1	2014-07-03	US20140188030				
US8771218	B2	2014-07-08	US8771218				
US8808220	B2	2014-08-19	US8808220				
US9351873	B2	2016-05-31	US9351873				

Abstract

(EP1732634)

This invention comprises a flexible **ocular** device for implantation into the eye formed of a biocompatible elastomeric material, foldable to a diameter of 1.5 mm or less, comprising a fluid drainage tube having at one end a foldable plate adapted to locate the device on the inner surface of the sclera in a suprachoroidal space formed by cyclodialysis, said drainage tube opening onto the disc at one end and opening to the anterior chamber when implanted into the eye at its other end, so as to provide aqueous pressure regulation. Also provided are methods for the treatment of glaucoma utilising the flexible **ocular** device, and an **ocular** pressure spike **shunt**.

Inventors

CORONEO MINAS THEODORE

Latest standardized assignees - inventors removed

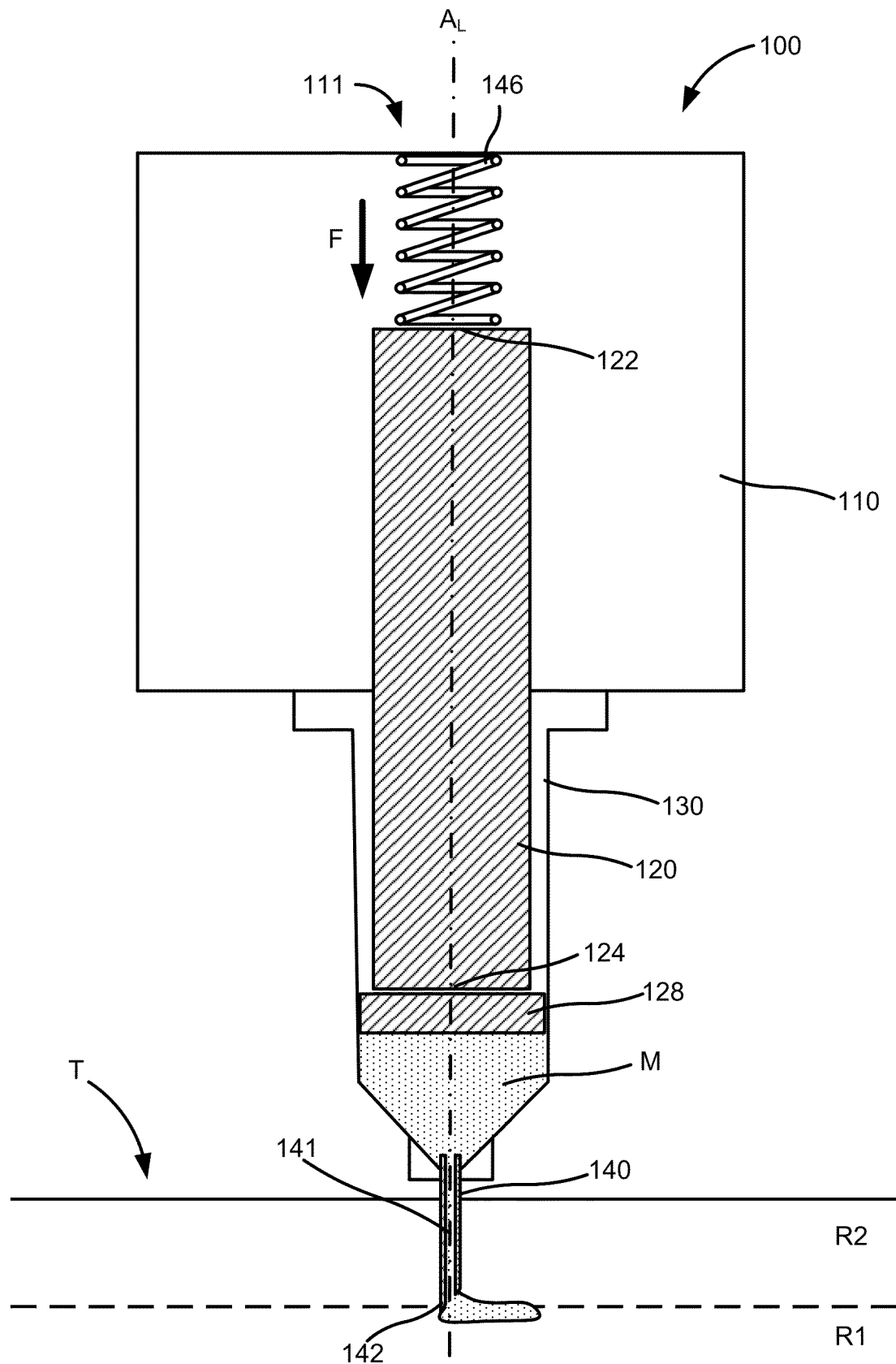
NOVARTIS

Family 21/100 - FAMPAT - ©Questel

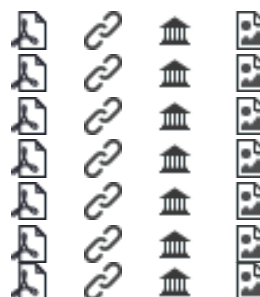
Title

(EP3417896)

Apparatus and methods for **ocular injection****Images**


Publication data including kind & date

CA2911290	A1	2014-11-06	CA2911290
WO2014179698	A2	2014-11-06	WO2014179698
US20150038905	A1	2015-02-05	US20150038905
WO2014179698	A3	2015-02-12	WO2014179698
US20150051581	A1	2015-02-19	US20150051581
WO2014179698	A4	2015-04-16	WO2014179698



US9180047	B2	2015-11-10	US9180047				
AU2014259694	A1	2015-12-03	AU2014259694				
BR112015027762	A1	2015-12-08	BR112015027762				
SG11201509051V	A	2015-12-30	SG11201509051V				
CN105246529	A	2016-01-13	CN105246529				
KR20160005735	A	2016-01-15	KR20160005735				
IN10270/DELNP/2015	A	2016-02-05	IN2015DN10270				
MX2015015282	A	2016-02-26	MX2015015282				
EP2991706	A2	2016-03-09	EP2991706				
JP2016520383	A	2016-07-14	JP2016520383				
HK1216304	A1	2016-11-04	HK1216304				
EA201592109	A1	2016-11-30	EA201592109				
EP2991706	A4	2016-12-21	EP2991706				
US9539139	B2	2017-01-10	US9539139				
US20170112665	A1	2017-04-27	US20170112665				
US9636253	B1	2017-05-02	US9636253				
SG10201702674P	A	2017-06-29	SG10201702674P				
US20170224534	A1	2017-08-10	US20170224534				
US9770361	B2	2017-09-26	US9770361				
US20180028358	A1	2018-02-01	US20180028358				
US9937075	B2	2018-04-10	US9937075				
JP6379183	B2	2018-08-22	JP6379183				
JP2018164763	A	2018-10-25	JP2018164763				
AU2014259694	B2	2018-11-08	AU2014259694				
BR112015027762	A2	2018-11-13	BR112015027762				
US20180333297	A1	2018-11-22	US20180333297				
EP3417896	A2	2018-12-26	EP3417896				

Abstract

(EP3417896)

An apparatus includes a housing coupled to a medicament container, which is coupled to a needle. An **injection** assembly is disposed within the housing and includes an energy storage member and an actuation rod. A distal end portion of the actuation rod is disposed within the medicament container. The energy storage member can produce a force on a proximal end portion of the actuation rod sufficient to move the distal end portion of the actuation rod within the medicament container. This can convey at least a portion of a substance from the medicament container via the needle when a distal tip of the needle is disposed within a first region of a target location. The force is insufficient to move the distal end portion of the actuation rod within the medicament container when the distal tip of the needle is disposed within a second region of the target location.

Inventors

ANDINO RAFAEL VICTOR
 ZARNITSYN VLADIMIR
 BROOKS CHRISTOPHER JOHN
 YOO JESSE
 KAHUTE TRENT JOHN
 ARSENAULT JUSTIN WILLIAM
 TRETTIN DAVID JACKSON
 BAUER ANDREW KENT
 LEWIS STEPHANIE ELAINE

Latest standardized assignees - inventors removed

EP3068354	A4	2017-09-20	EP3068354			
ZA201603430	B	2017-11-29	ZA201603430			
RU2016123178	A	2017-12-19	RU2016123178			
RU2648229	C1	2018-03-22	RU2648229			
KR101841545	B1	2018-03-23	KR101841545			
KR20180031808	A	2018-03-28	KR20180031808			
CN105899170	B	2018-04-24	CN105899170B			
UA117148	C2	2018-06-25	UA-117148			
CN108403215	A	2018-08-17	CN108403215			
CN108451712	A	2018-08-28	CN108451712			

Abstract

(EP3068354)

An inserter for treating glaucoma can include a housing, a needle, a plunger, a slider component, and a drive component. The drive component is disposed within a cavity of the housing and rotatable within the cavity to result in movement along a longitudinal axis of the inserter to the needle and the plunger upon rotation of the drive component. The slider component is coupled to the housing and slidable along an elongate groove of the drive component such that movement of the slider component along the axis rotates the drive component within the housing.

Inventors

HORVATH CHRISTOPHER

ROMODA LASZLO O

AHMED IQBAL K

HAMSTROM BRIAN SCOTT

JUNG WESLEY ANNE

VERA VANESSA I

BACHE RONALD D

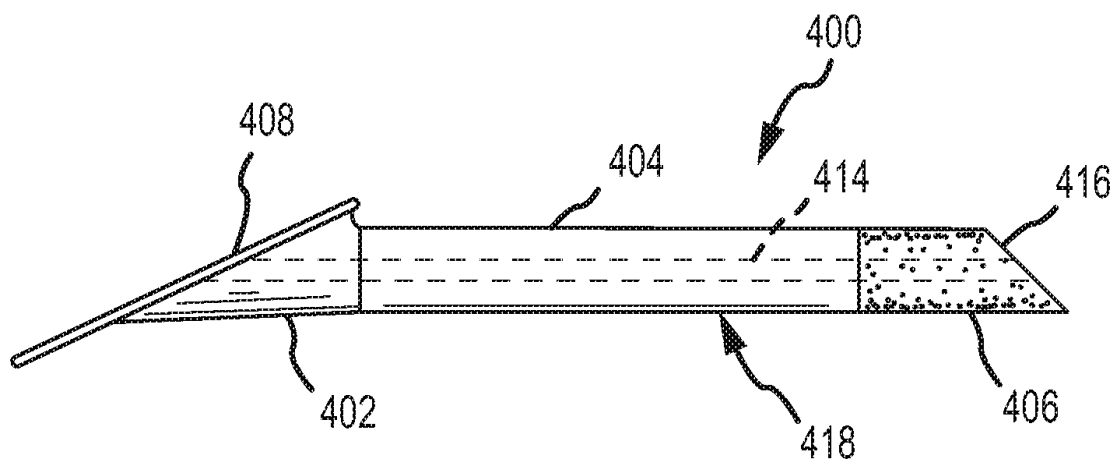
Latest standardized assignees - inventors removed

AQUESYS

Family 23/100 - FAMPAT - ©Questel

Title

(EP2618777)

Aqueous humor micro bypass **shunt****Images****Publication data including kind & date**[WO2012040380](#) A1 2012-03-29 WO2012040380

EP2618777

A1 2013-07-31 EP2618777

US20130267887

A1 2013-10-10 US20130267887

**Abstract**

(EP2618777)

A small **shunt** can be placed within the eye to aid in drainage of aqueous humor from the anterior chamber of the eye to a pocket between the conjunctiva and the sclera to be absorbed, or to secrete through the cornea or the sclera external to the eye for glaucoma or **ocular** hypertension treatment. This drainage can decrease the pressure of the eye and potentially modify the course of advancing glaucomatous optic neuropathy as it relates to eye pressure. The **shunt** is formed of a shape memory polymer material and deformed into a smaller form factor to reduce trauma to the eye resulting from the insertion of the **shunt** through the sclera to the anterior chamber. Once in situ, the **shunt** deploys in response to body heat or other external stimulus and expands to its original, larger form factor to provide a secure friction fit of the **shunt** within the scleral tissue and to enlarge the lumen of the **shunt** to allow for aqueous flow.

Inventors

KAHOOK MALIK

SHANDAS ROBIN

RECH BRYAN ANDREW

MANDAVA NARESH

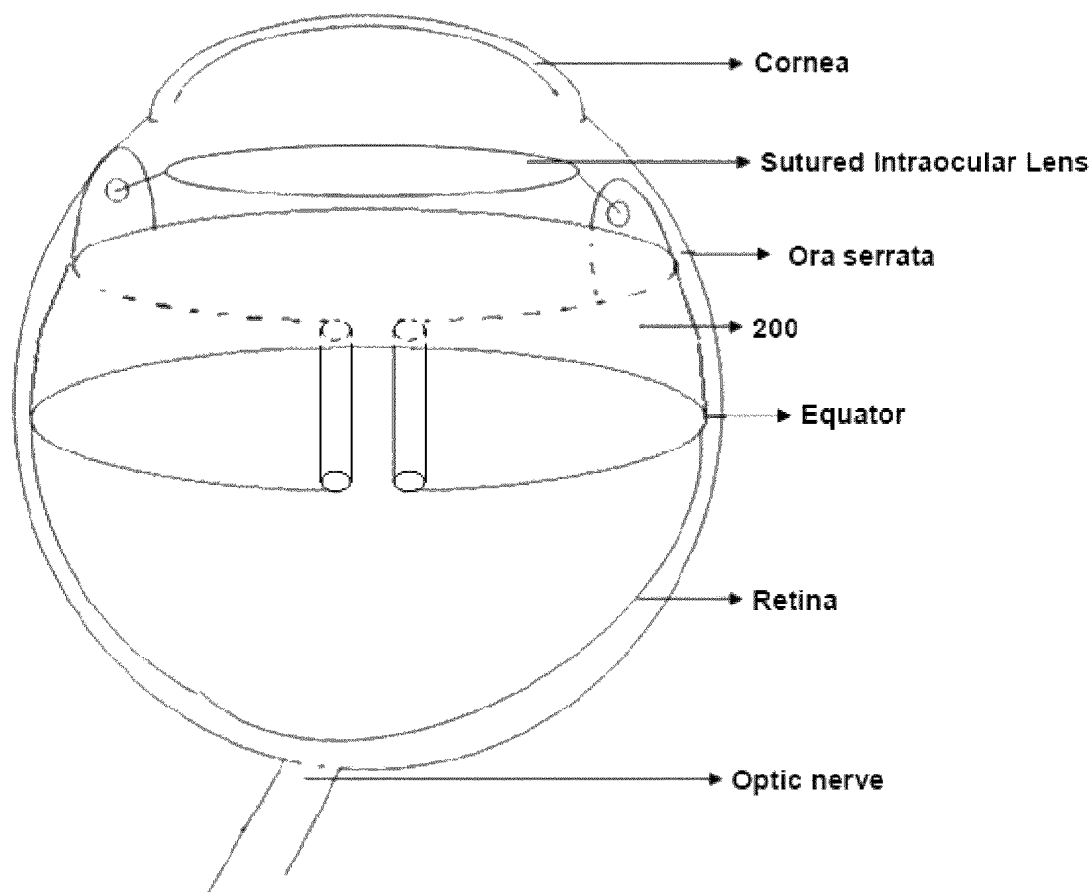
Latest standardized assignees - inventors removed

UNIVERSITY OF COLORADO

Family 24/100 - FAMPAT - ©Questel

Title

(EP2563273)

Intravitreal self adaptive **stent****Images**

Publication data including kind & date

WO2011134146	A1	2011-11-03	WO2011134146
US20120035738	A1	2012-02-09	US20120035738
EP2563273	A1	2013-03-06	EP2563273
EP2563273	A4	2014-01-08	EP2563273
US9539087	B2	2017-01-10	US9539087
EP2563273	B1	2017-08-23	EP2563273

**Abstract**

(EP2563273)

Disclosed herein are devices, methods and kits for a **stent** for treating an eye, comprising a flexible material, wherein the **stent** is self adaptive to a dimension of a vitreous cavity in the eye.

Inventors

DAI RONGPING

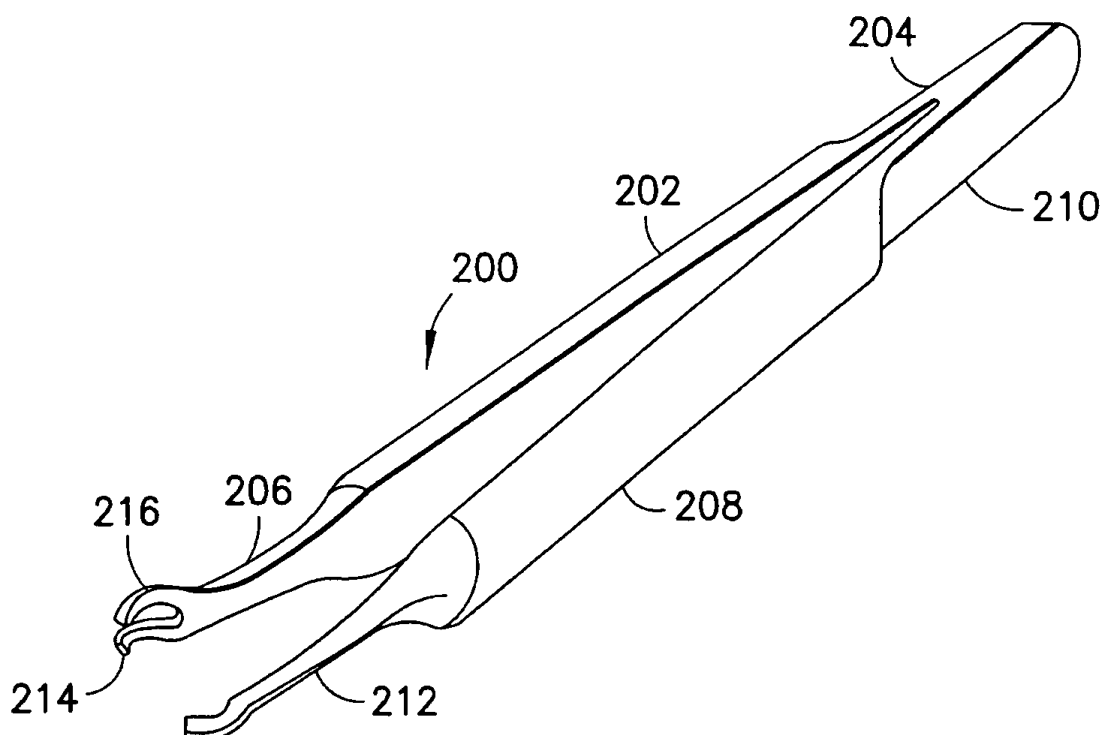
Latest standardized assignees - inventors removed

EMPIRE TECHNOLOGY DEVELOPMENT

Family 25/100 - FAMPAT - ©Questel

Title

(WO200885966)

Insertion tool and packaging for **ocular** implant and method for using same**Images****Publication data including kind & date**

WO2008085966	A2	2008-07-17	WO2008085966
US20080200923	A1	2008-08-21	US20080200923
US20080215062	A1	2008-09-04	US20080215062
WO2008085966	A3	2008-11-13	WO2008085966



Abstract

(WO200885966)

An insertion tool and method for implanting an ophthalmic **shunt** 10 having a foot 16, a head (12), and a body (20) connecting the foot (16) and head (12). The insertion tool (100) has a first arm (102) having a proximal end (104) and a distal end (106), and a second arm (108) having a proximal end (110) and a distal end (112). The second arm (108) is movable with respect to the first arm (102) between an open position and a closed position. A means (106, 120, 112, 118) to grip a **shunt** (10) is disposed on the distal ends (106, 112) of the first and second arms (102, 108). In use, the insertion tool (100) is employed to selectively grip the **shunt** (10) for placement in the tissue of the eye and, as desired, to orient the **shunt** (10) after placement. Also provided is packaging (1500, 1526, 1534) for holding such an ophthalmic **shunt** (10), the packaging (1500, 1526, 1534) having an elastomeric membrane (1508, 1536, 1540, 1550) with an aperture (1510, 1530) for receiving the **shunt** (10) in the packaging (1500, 1526, 1534).

Inventors

BECKMAN RICHARD

COTE DANA

BOWEN MARK

BENE ERIC

MCGRAW MICHAEL

Latest standardized assignees - inventors removed

BEAVER VISITEC INTERNATIONAL

TURNER ACQUISITION

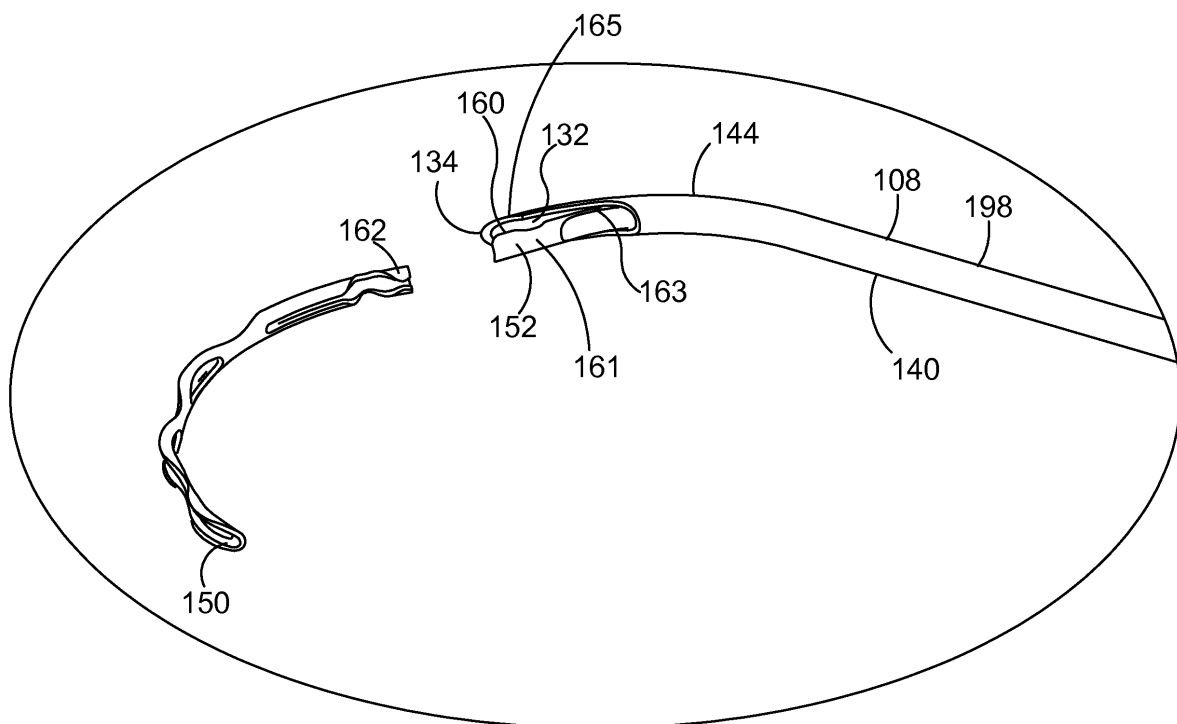
ULTRACELL MEDICAL TECHNOLOGIES

BECTON DICKINSON ACUTECARE

Family 26/100 - FAMPAT - ©Questel

Title

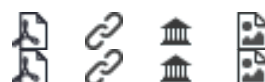
(EP2997938)

Delivering **ocular** implants into the eye**Images****Publication data including kind & date**

US20130158462

A1 2013-06-20

US20130158462



CA2859810	A1	2013-06-27	CA2859810				
WO2013096453	A1	2013-06-27	WO201396453				
US8663150	B2	2014-03-04	US8663150				
US20140121584	A1	2014-05-01	US20140121584				
AU2012359022	A1	2014-05-22	AU2012359022				
EP2763625	A1	2014-08-13	EP2763625				
EP2763625	A4	2014-10-08	EP2763625				
CN104203153	A	2014-12-10	CN104203153				
AU2012359022	B2	2014-12-11	AU2012359022				
JP2015500714	A	2015-01-08	JP2015500714				
IN2943/DELNP/2014	A	2015-03-13	IN2014DN02943				
US20150119787	A1	2015-04-30	US20150119787				
US9066750	B2	2015-06-30	US9066750				
JP5770389	B2	2015-08-26	JP5770389				
US20150290033	A1	2015-10-15	US20150290033				
EP2763625	B1	2015-11-04	EP2763625				
CA2859810	C	2016-02-02	CA2859810				
EP2997938	A2	2016-03-23	EP2997938				
CN104203153	B	2016-04-20	CN104203153B				
EP2997938	A3	2016-08-17	EP2997938				
US9931243	B2	2018-04-03	US9931243				

Abstract

(EP2997938)

A system comprising: a cannula (108) having a side wall (183,184) defining a passageway, the cannula having a curved distal portion (185) extending between a distal end and a proximal portion along a radius of curvature, the cannula including an opening (132); the opening fluidly communicating with the passageway; an **ocular** implant (150) disposed inside the passageway defined by the cannula; and a delivery tool (152) having a distal interlocking portion (160) engaging a complementary interlocking portion (162) of the **ocular** implant to form a mechanically interlocking connection; the opening extending through the distal end and the side wall to form a trough portion (189); and the mechanically interlocking connection forming when the interlocking portion of the delivery tool is proximal to the trough portion of the cannula, the delivery tool distal interlocking portion having a curved at-rest shape having a smaller radius of curvature than the radius of curvature of the cannula distal portion, the cannula side wall preventing the delivery tool distal interlocking portion from assuming its at-rest shape when the delivery tool distal interlocking portion is proximal to the trough portion of the cannula.

Inventors

WARDLE JOHN

SCHIEBER ANDREW T

Latest standardized assignees - inventors removed

IVANTIS

Family 27/100 - FAMPAT - ©Questel

Title

(EP2739252)

Small molecule delivery with implantable therapeutic device

Images

	B	2015-06-03	CN102365109B				
EP2739252	A4	2015-08-12	EP2739252				
JP5902766	B2	2016-04-13	JP5902766				
US20160101046	A1	2016-04-14	US20160101046				
EP2391419	A4	2016-06-08	EP2391419				
JP2016135270	A	2016-07-28	JP2016135270				
US9417238	B2	2016-08-16	US9417238				
JP6171036	B2	2017-07-26	JP6171036				
US9851351	B2	2017-12-26	US9851351				
US20180292403	A1	2018-10-11	US20180292403				
US10166142	B2	2019-01-01	US10166142				

Abstract

(EP2739252)

A therapeutic device that can release a therapeutic agent comprising a porous structure coupled to a container comprising a reservoir. The reservoir can comprise a volume sized to release therapeutic amounts of the therapeutic agent for an extended time when coupled to the porous structure and implanted in a patient. The porous structure may comprise a first side coupled to the reservoir and a second side to couple to the patient to release the therapeutic agent. The length of the channels extending from the first side to the second side may comprise an effective length greater than a distance across the porous structure from the first side to the second side. The therapeutic device may comprise a penetrable barrier to **inject** therapeutic agent into the device when implanted in the patient.

Inventors

DE JUAN EUGENE

ALSTER YAIR

FARINAS KATHLEEN COGAN

MACFARLANE K ANGELA

REICH CARY J

CAMPBELL RANDOLPH E

ERICKSON SIGNE

Latest standardized assignees - inventors removed

FORSIGHT VISION4

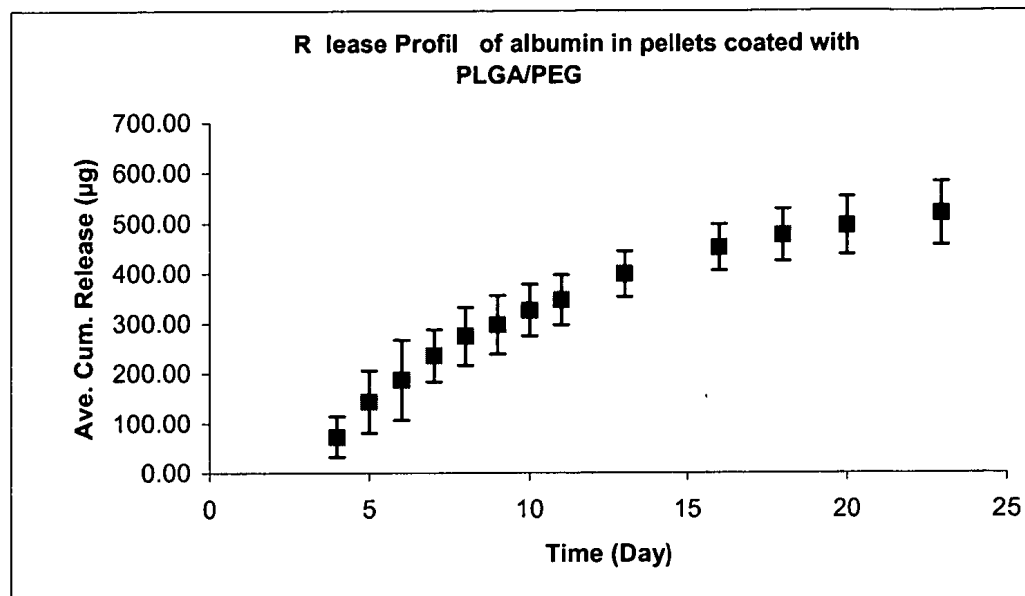
Family 28/100 - FAMPAT - ©Questel

Title

(EP1592411)

Controlled release of highly soluble agents

Images



Publication data including kind & date

WO2004066983	A2	2004-08-12	WO200466983				
WO2004066979	A2	2004-08-12	WO200466979				
WO2004066980	A2	2004-08-12	WO200466980				
CA2513884	A1	2004-08-12	CA2513884				
CA2513752	A1	2004-08-12	CA2513752				
CA2513751	A1	2004-08-12	CA2513751				
AU2004207523	A1	2004-08-12	AU2004207523				
AU2004207507	A1	2004-08-12	AU2004207507				
AU2004207506	A1	2004-08-12	AU2004207506				
US20040175426	A1	2004-09-09	US20040175426				
WO2004066979	A3	2004-09-16	WO200466979				
WO2004066980	A3	2004-09-16	WO200466980				
WO2004066983	A3	2004-11-18	WO200466983				
TW200500099	A	2005-01-01	TW200500099				
TW200509998	A	2005-03-16	TW200509998				
AR042920	A1	2005-07-06	AR--42920				
AR042917	A1	2005-07-06	AR--42917				
AR043356	A1	2005-07-27	AR--43356				
MXPA05007718	A	2005-09-30	MX2005PA007718				
MXPA05007719	A	2005-09-30	MX2005PA007719				
MXPA05007717	A	2005-09-30	MX2005PA007717				
EP1592411	A2	2005-11-09	EP1592411				
EP1592408	A2	2005-11-09	EP1592408				
EP1592407	A2	2005-11-09	EP1592407				
KR20050108345	A	2005-11-16	KR20050108345				
KR20050118161	A	2005-12-15	KR20050118161				
KR20050123091	A	2005-12-29	KR20050123091				
BRPI0406880	A	2006-01-03	BR200406880				
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BRPI0406879	A	2006-01-03	BR200406879				
BRPI0406879	A1	2006-01-03	BRPI0406879				

BRPI0406858	A	2006-01-03	BR200406858				
BRPI0406858	A1	2006-01-03	BRPI0406858				
CN1741793	A	2006-03-01	CN1741793				
CN1741792	A	2006-03-01	CN1741792				
CN1756537	A	2006-04-05	CN1756537				
JP2006516621	A	2006-07-06	JP2006516621				
JP2006516618	A	2006-07-06	JP2006516618				
JP2006516619	A	2006-07-06	JP2006516619				
IN3355/DELNP/2005	A	2007-04-13	IN2005DN03355				
IN3354/DELNP/2005	A	2007-04-13	IN2005DN03354				
IN3353/DELNP/2005	A	2007-06-01	IN2005DN03353				
IN233903	B	2009-05-01	IN-233903				
IN233969	B	2009-05-22	IN-233969				
EP1592408	B1	2009-08-26	EP1592408				
AT440595	T	2009-09-15	ATE440595				
DE602004022776	D1	2009-10-08	DE602004022776				
AU2004207506	B2	2009-10-08	AU2004207506				
AU2004207507	B2	2009-11-19	AU2004207507				
EP1592407	B1	2009-12-16	EP1592407				
DK1592408	T3	2010-01-04	DK1592408T				
AT451915	T	2010-01-15	ATE451915				
DE602004024642	D1	2010-01-28	DE602004024642				
SI1592408	T1	2010-01-29	SI1592408T				
ES2332720	T3	2010-02-11	ES2332720				
CN100594899	C	2010-03-24	CN100594899C				
DK1592407	T3	2010-04-19	DK1592407T				
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ES2338420	T3	2010-05-07	ES2338420				
IN2492/DELNP/2009	A	2010-08-20	IN2009DN02492				
IN2182/DELNP/2009	A	2010-08-20	IN2009DN02182				
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BRPI0406858	A2	2011-10-25	BR200406858				
CA2513752	C	2012-01-03	CA2513752				
CA2513751	C	2012-01-10	CA2513751				
TWI356714	B	2012-01-21	TWI356714				
BRPI0406879	B1	2015-12-22	BR200406879				
BRPI0406880	A2	2015-12-29	BR200406880				
IN290692	B	2017-12-22	IN-290692				

Abstract

(EP1592411)

The invention provides for sustained release formulations for systemic delivery of drugs or other therapeutic agents that are highly soluble in water. Methods of administration of the agents and devices useful for administration are also disclosed. In particular, sustained release formulations are disclosed for the treatment of glaucoma, including methods and devices suitable for the administration of the formulations.

Inventors

ASHTON PAUL

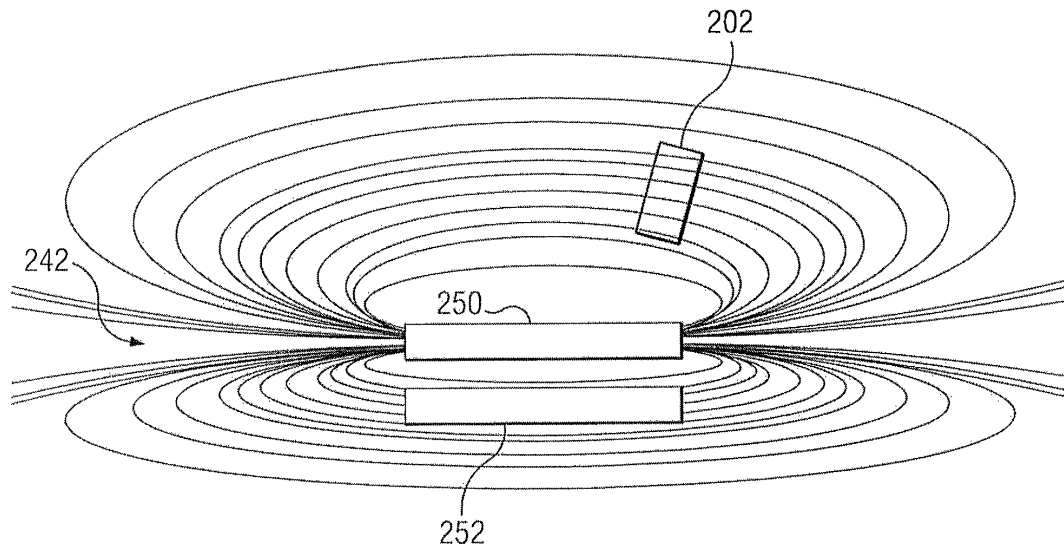
Latest standardized assignees - inventors removed

PSIVIDA

Family 29/100 - FAMPAT - ©Questel

Title

(EP2768444)

System and method for powering **ocular** implants**Images****Publication data including kind & date**

US20130150771	A1	2013-06-13	US20130150771				
CA2856736	A1	2013-06-20	CA2856736				
WO2013090198	A1	2013-06-20	WO2013090198				
US8585664	B2	2013-11-19	US8585664				
AU2012352543	A1	2014-06-12	AU2012352543				
CN103987347	A	2014-08-13	CN103987347				
EP2768444	A1	2014-08-27	EP2768444				
JP2015500709	A	2015-01-08	JP2015500709				
EP2768444	B1	2015-12-09	EP2768444				
ES2557766	T3	2016-01-28	ES2557766				
CN103987347	B	2016-10-19	CN103987347B				
AU2012352543	B2	2016-12-15	AU2012352543				

Abstract

(EP2768444)

A system for treating an **ocular** condition of a patient includes an electrically powered **ocular** implant sized for placement within an eye and includes a transmitter sized to be carried on or adjacent the head of the patient for disposal adjacent the eye. The transmitter includes a transmission antenna that emits an electromagnetic flux field sufficient to energize the **ocular** implant and includes a flux **shunt** disposed within the electromagnetic flux field. The transmission antenna may be disposed between the flux **shunt** and the implant.

Inventors

DOS SANTOS CESARIO

JENKINS DANIEL COLLIN

Latest standardized assignees - inventors removed

ALCON RESEARCH

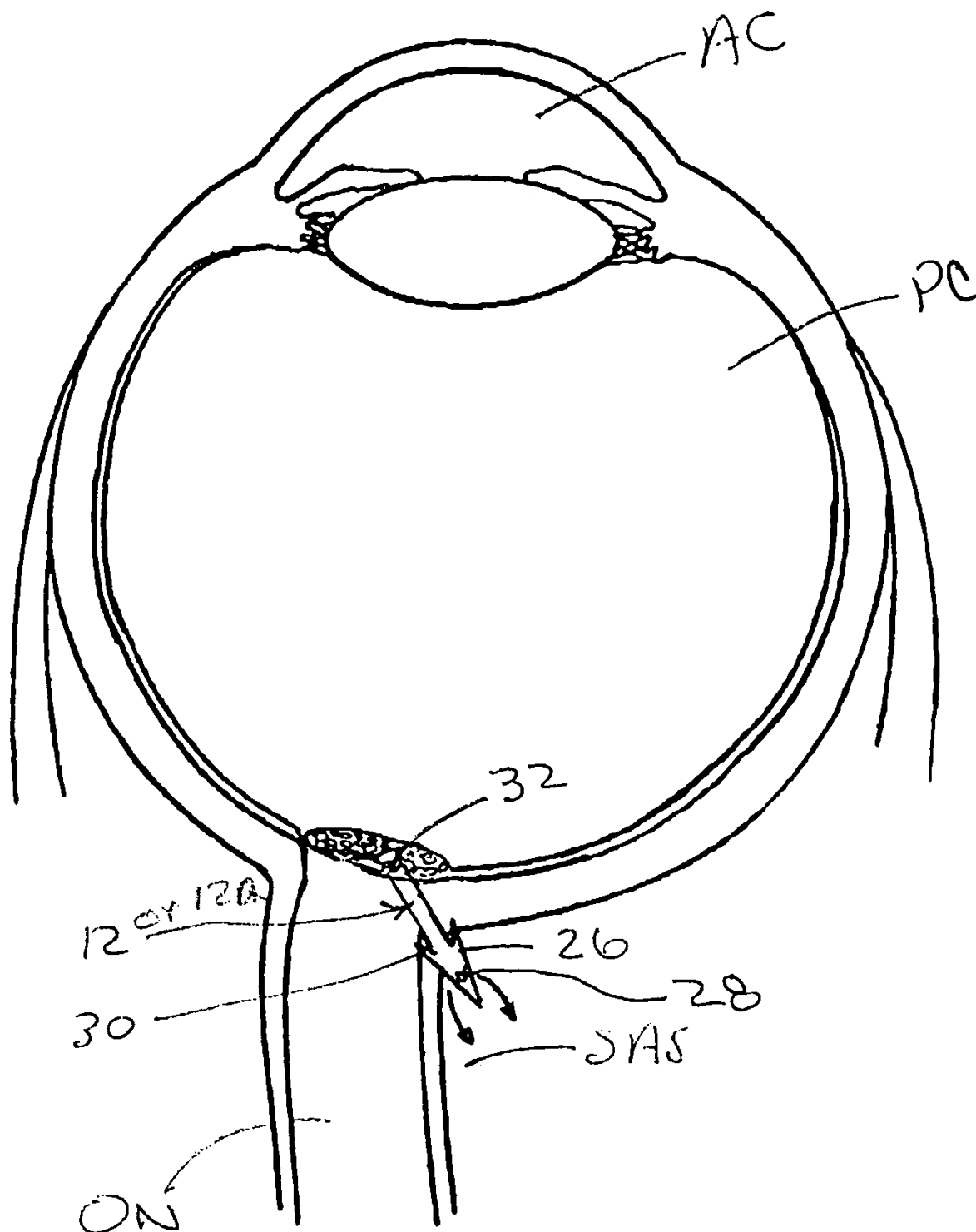
Family 30/100 - FAMPAT - ©Questel

Title

(EP2268340)

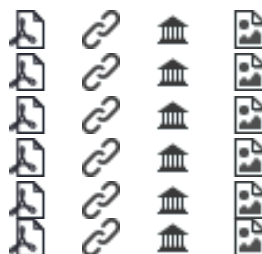
Optic nerve implants

Images



Publication data including kind & date

WO2004073552	A2	2004-09-02	WO200473552
CA2515568	A1	2004-09-02	CA2515568
AU2004213006	A1	2004-09-02	AU2004213006
US20040254517	A1	2004-12-16	US20040254517
WO2004073552	A3	2005-04-21	WO200473552



EP1596902	A2	2005-11-23	EP1596902				
MXPA05008675	A	2006-03-02	MX2005PA008675				
RU2005128634	A	2006-03-20	RU2005128634				
CN1750851	A	2006-03-22	CN1750851				
JP2006517848	A	2006-08-03	JP2006517848				
US7354416	B2	2008-04-08	US7354416				
EP1596902	A4	2008-12-17	EP1596902				
CN100475280	C	2009-04-08	CN100475280C				
RU2361552	C2	2009-07-20	RU2361552				
US20090227933	A1	2009-09-10	US20090227933				
WO2009126569	A1	2009-10-15	WO2009126569				
AU2004213006	B2	2010-11-04	AU2004213006				
EP2268340	A1	2011-01-05	EP2268340				
JP4643561	B2	2011-03-02	JP4643561				
US8012115	B2	2011-09-06	US8012115				
US20120143118	A1	2012-06-07	US20120143118				
EP2268340	A4	2013-04-17	EP2268340				
US9138345	B2	2015-09-22	US9138345				
US20160067084	A1	2016-03-10	US20160067084				
EP2268340	B1	2017-01-11	EP2268340				
EP1596902	B1	2017-07-05	EP1596902				
ES2622475	T3	2017-07-06	ES2622475				
ES2642584	T3	2017-11-16	ES2642584				

Abstract

(EP2268340)

Methods and devices for delivering therapeutic substances into the eye. An implant containing the therapeutic substance is implanted at least partially within the optic nerve and the therapeutic substance then elutes from the implant. The implant may have a lumen or it may be solid.

Inventors

KARAGEOZIAN HAMPAR L

Latest standardized assignees - inventors removed

S K PHARMACEUTICAL

Family 31/100 - FAMPAT - ©Questel

Title

(EP3412260)

Drug eluting **ocular** implant**Images**

Abstract

(EP3412260)

A drug delivery **ocular** implant (53), comprising an outer shell (54) shaped to define an interior space, one closed distal end, and one open proximal end; a drug (62) contained within the interior space (58); a cap (54a) dimensioned to fit within or over the one open end and having at least one region (56) of drug release; a permeable or semi-permeable material covering the at least one region of drug release, the permeable or semi-permeable material being permeable or semi-permeable to the drug; and a retention protrusion (359) on the closed distal end.

Inventors

HAFFNER DAVID

CURRY KEN

HEITZMANN HAROLD

APPLEGATE DAVID

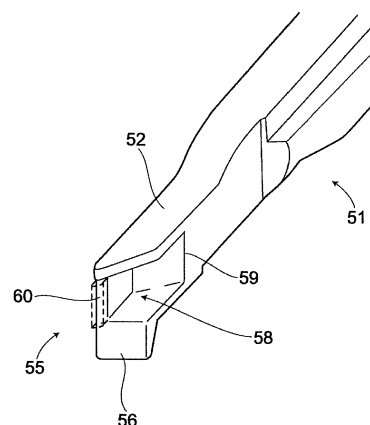
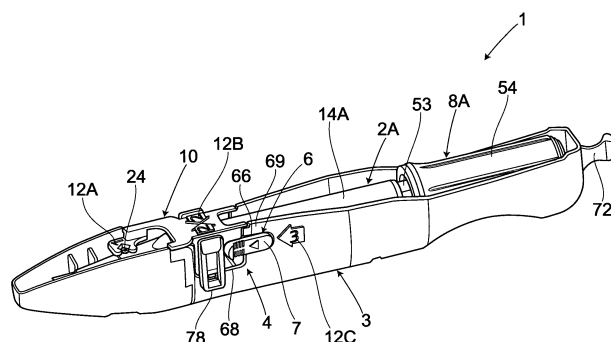
Latest standardized assignees - inventors removed

DOSE MEDICAL

Family 32/100 - FAMPAT - ©Questel

Title

(EP2579814)

Ocular implant insertion system**Images****Publication data including kind & date**

WO2011155636	A1	2011-12-15	WO2011155636
JP2011255029	A	2011-12-22	JP2011255029
AU2011262787	A1	2012-12-20	AU2011262787
SG185738	A1	2013-01-30	SG-185738
CN103037806	A	2013-04-10	CN103037806
EP2579814	A1	2013-04-17	EP2579814
US20130226193	A1	2013-08-29	US20130226193
US8647382	B2	2014-02-11	US8647382
US20140114323	A1	2014-04-24	US20140114323
JP5511530	B2	2014-06-04	JP5511530
AU2011262787	B2	2014-06-26	AU2011262787
EP2579814	A4	2016-03-16	EP2579814
CN103037806	B	2016-03-30	CN103037806B
IN10471/DELNP/2012	A	2016-04-08	IN2012DN10471
US9314373	B2	2016-04-19	US9314373
US20160193038	A1	2016-07-07	US20160193038



US20170042728	A1	2017-02-16	US20170042728
US9572710	B1	2017-02-21	US9572710
EP2579814	B1	2017-03-01	EP2579814
US20170258582	A1	2017-09-14	US20170258582
US9980811	B2	2018-05-29	US9980811
US10039668	B2	2018-08-07	US10039668



Abstract

(EP2579814)

An exemplary **ocular** implant insertion system includes a case and a preloaded **ocular** implant insertion apparatus. The apparatus includes first and second movable structures that move the **ocular** implant in a predetermined sequence. The respective configurations of the case and the **ocular** implant insertion apparatus are such that the **ocular** implant insertion apparatus is not removable from the case when the **ocular** implant insertion apparatus is in the pre-use state and is removable after the first movable structure has moved at least a portion of the optical implant.

Inventors

KUDO KAZUNORI

NODA MASAHIRO

Latest standardized assignees - inventors removed

HOYA

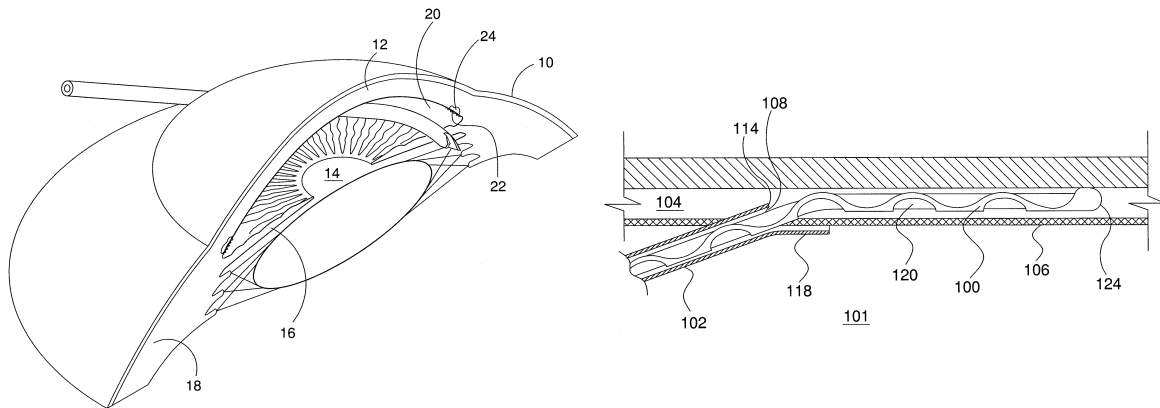
Family 33/100 - FAMPAT - ©Questel

Title

(EP2636391)

Ocular implant delivery system

Images



Publication data including kind & date

US20090132040	A1	2009-05-21	US20090132040
WO2009067369	A1	2009-05-28	WO200967369
CA2703280	A1	2009-05-28	CA2703280
AU2008326619	A1	2009-05-28	AU2008326619
EP2219570	A1	2010-08-25	EP2219570
IN2590/DELNP/2010	A	2010-10-01	IN2010DN02590
CN101868202	A	2010-10-20	CN101868202
JP2011502710	A	2011-01-27	JP2011502710
EP2219570	A4	2012-03-07	EP2219570
CN101868202	B	2013-01-16	CN101868202B
EP2219570	B1	2013-06-26	EP2219570
US8512404	B2	2013-08-20	US8512404
EP2636391	A1	2013-09-11	EP2636391



[JP5379151](#)

B2 2013-12-25 JP5379151

[AU2008326619](#)

B2 2014-06-12 AU2008326619

[CA2703280](#)

C 2016-06-07 CA2703280

**Abstract**

(EP2636391)

An **ocular** implant and delivery system, the **ocular** implant (100) being mounted on a carrier (120) and the system comprising: a cannula 102) comprising a distal exit port (108) adapted to be inserted into a Schlemm's canal portion of an eye (104); an **ocular** implant; a carrier disposed within the implant and movable with the implant within the cannula; and a proximal control adapted to be operated from exterior to an eye to move at least one of the carrier and the implant when the distal exit port of the cannula is within the eye.

Inventors

FRION DUANE

MCCARVILLE REBECCA

SCHIEBER ANDEW T

ZENZ-OLSON NATHANIEL

FEEHAN DIANE

MATTHEES EDWARD

EUTENEUER CHARLES L

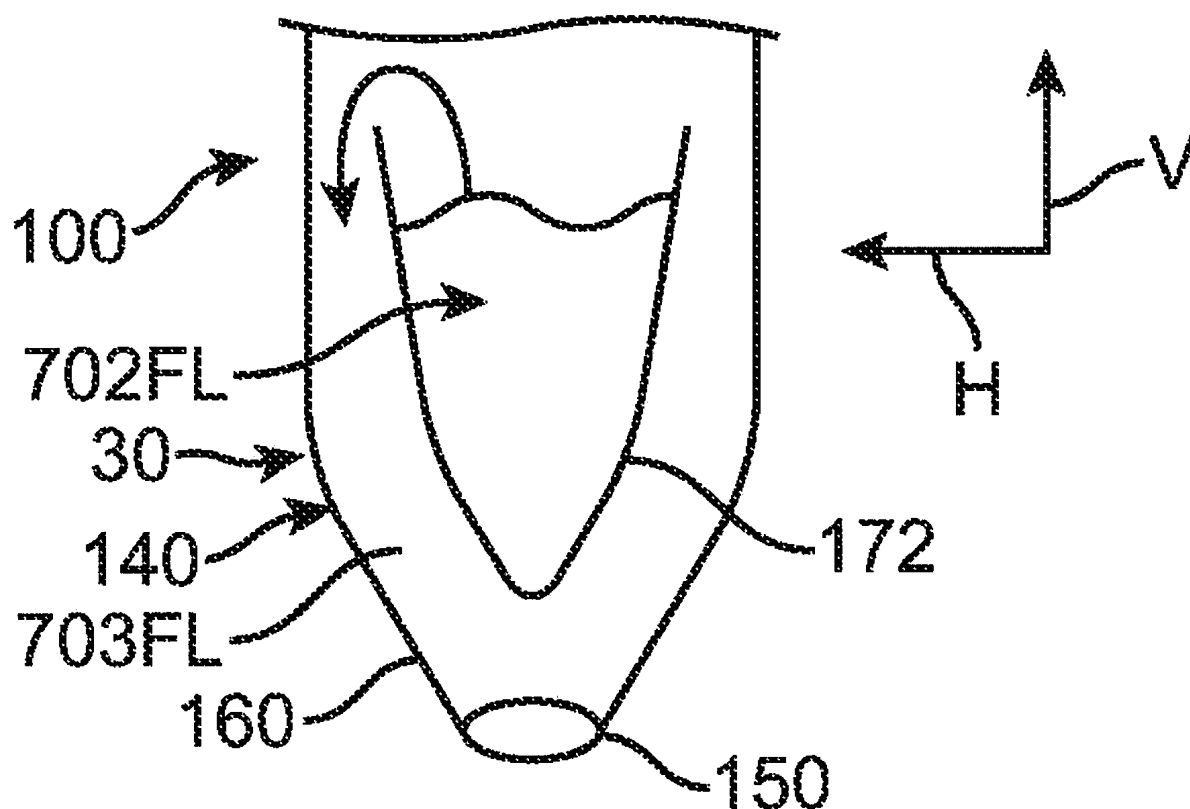
Latest standardized assignees - inventors removed

IVANTIS

Family 34/100 - FAMPAT - ©Questel

Title

(CN105435338)

Injector apparatus and method for drug delivery**Images****Publication data including kind & date**[CN105435338](#)

A 2016-03-30 CN105435338

**Abstract**

[TWI608852](#)

B 2017-12-21 TWI608852

[JP6379421](#)

B2 2018-08-29 JP6379421

**Abstract**

(EP2913029)

Provided is an intraocular lens **injector** which is highly convenient and which can be manipulated in a reliable manner irrespective of an operator's skill. The intraocular lens **injector** includes a lens holder holding an intraocular lens which has an optic and a haptic extending in a curved shape from the optic, a plunger which comes into contact with the intraocular lens and pushes out the intraocular lens, and a device body in which the plunger is inserted projectably/retractably and in which the lens holder can be attached in an intersecting direction relative to an axis of the plunger. The lens holder includes a position regulating portion for regulating a disposing position of the haptic in such a manner that a distal end of the plunger at an initial position before the plunger is pushed in and the optic may be laid on a common plane with a portion of the haptic lying on top of the plunger.

Inventors

WAGNER CHRISTIAN WINFRIED

YAMADA YOSHITAKA

UENO KATSUYUKI

Latest standardized assignees - inventors removed

SANTEN PHARMACEUTICAL

Family 36/100 - FAMPAT - ©Questel

Title

(EP3191034)

Injector apparatus**Images**

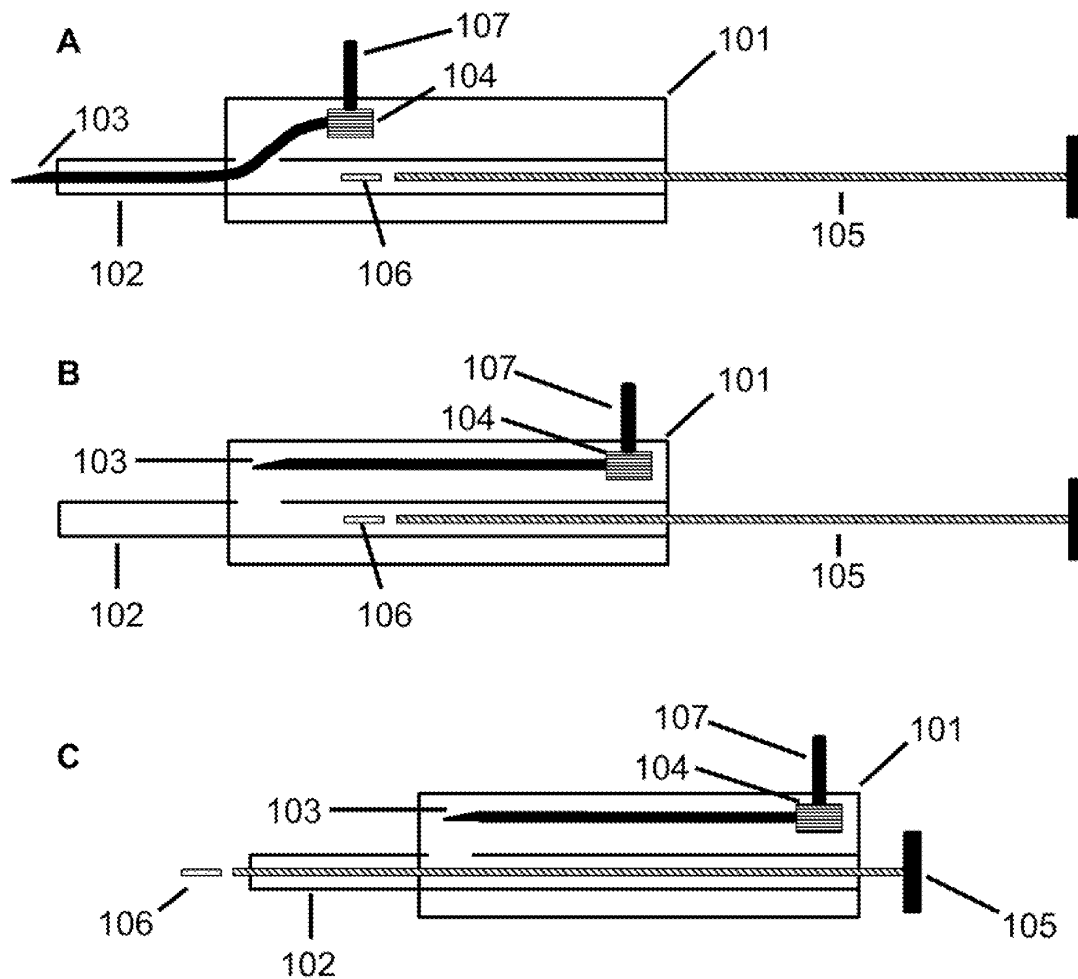


FIG. 1

Publication data including kind & date

CA2960278	A1	2016-03-17	CA2960278
US20160074213	A1	2016-03-17	US20160074213
WO2016040605	A1	2016-03-17	WO2016040605
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CN106687080	A	2017-05-17	CN106687080
IN201727011035	A	2017-07-07	IN201727011035
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EP3191034	A4	2018-04-25	EP3191034
RU2017107115	A	2018-10-11	RU2017107115
RU2017107115	A3	2018-11-15	RU2017107115



Abstract

(EP3191034)

The invention provides an **injector** device for delivering a pay load to a tissue, comprising a housing, a cannula defining a lumen and having a proximal end received in the housing and a distal end extending from the housing, a hollow needle comprising a distal end with a tip for piercing tissue, a shifter that shifts the needle from an extended position to a retracted position, and an actuator for advancing a pay load from an initial position to exit from the distal end of the cannula. In the extended position, the needle occupies at least part of the lumen of the cannula, and the distal end of the needle extends

past the distal end of the cannula, and in the retracted position, the distal end of the needle is withdrawn from the lumen of the cannula sufficiently to permit a pay load to advance from an initial position through the distal end of the cannula.

Inventors

NAZZARO MARTIN
YORK JOSH
LEBLANC RON

Latest standardized assignees - inventors removed

PSIVIDA

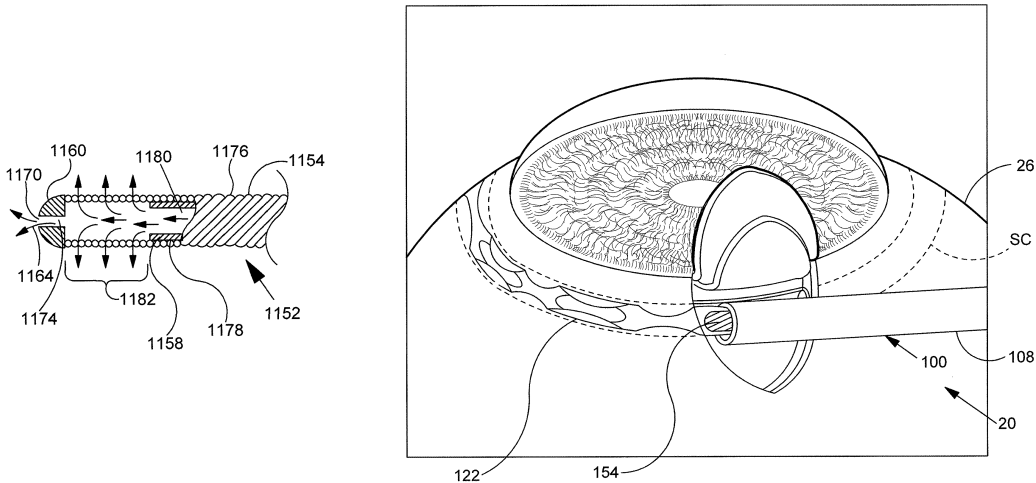
Family 37/100 - FAMPAT - ©Questel

Title

(EP2490621)

Ocular implant system and method

Images



Publication data including kind & date

WO2011050360	A1	2011-04-28	WO201150360
US20110098809	A1	2011-04-28	US20110098809
CA2778452	A1	2011-04-28	CA2778452
AU2010310484	A1	2012-05-10	AU2010310484
CN102647960	A	2012-08-22	CN102647960
EP2490621	A1	2012-08-29	EP2490621
JP2013508096	A	2013-03-07	JP2013508096
EP2490621	A4	2013-04-03	EP2490621
US20140249463	A1	2014-09-04	US20140249463
IN3124DEN2012	A	2015-09-18	IN2012DN03124
US9579234	B2	2017-02-28	US9579234



Abstract

(EP2490621)

An **ocular** implant and delivery system having a channel tool adapted to extend through at least a portion of Schlemm's canal of a human eye and to determine whether the Schlemm's canal portion provides a suitable location for the delivery of an **ocular** implant; an **ocular** implant adapted to be disposed within Schlemm's canal of a human eye; and a cannula comprising a distal opening adapted to deliver the channel tool and the **ocular** implant into Schlemm's canal of the eye. The invention also provides a method of treating glaucoma in a human eye including the steps of inserting a distal exit port of a cannula at least partially into Schlemm's canal of the eye; delivering a channel tool through the cannula into Schlemm's canal; delivering an **ocular** implant through the cannula into Schlemm's canal; and removing the channel tool and the cannula from the eye while leaving the **ocular** implant in place within Schlemm's canal.

Inventors

WARDLE JOHN

SCHIEBER ANDREW T

GALT KENNETH M

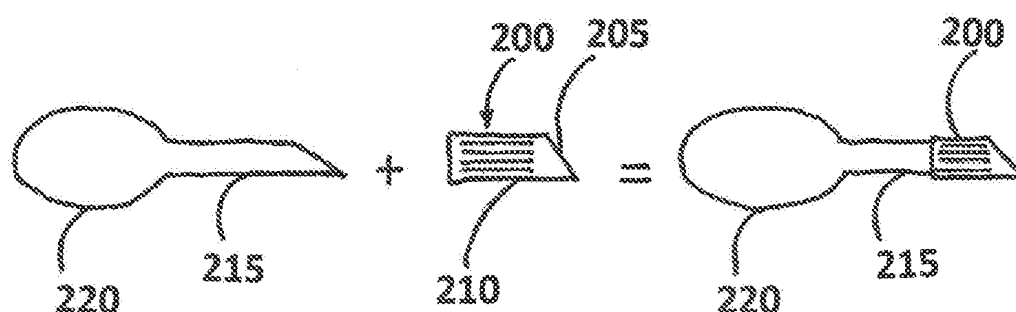
Latest standardized assignees - inventors removed

IVANTIS

Family 38/100 - FAMPAT - ©Questel

Title

(WO2016168686)

Ocular filtration devices, systems and methods**Images****FIG. 2****Publication data including kind & date**[WO2016168686](#)

A1 2016-10-20

WO2016168686

**Abstract**

(WO2016168686)

A glaucoma drainage device regulator (GDDR) is disclosed which comprises a membrane and a **shunt** tube to regulate the flow of aqueous in conjunction with different **ocular** (e.g., glaucoma) filtering procedures. In connection with aqueous shunting, the membrane of the **shunt** tube of the GDDR can be placed in the anterior chamber of the eye during implantation and coupled to a reservoir. The GDDR is implanted in a manner to permit easy access to the membrane for post surgery perforation of the membrane to regulate the aqueous flow of the **shunt** tube.

Inventors

OLSON JEFFREY

Latest standardized assignees - inventors removed

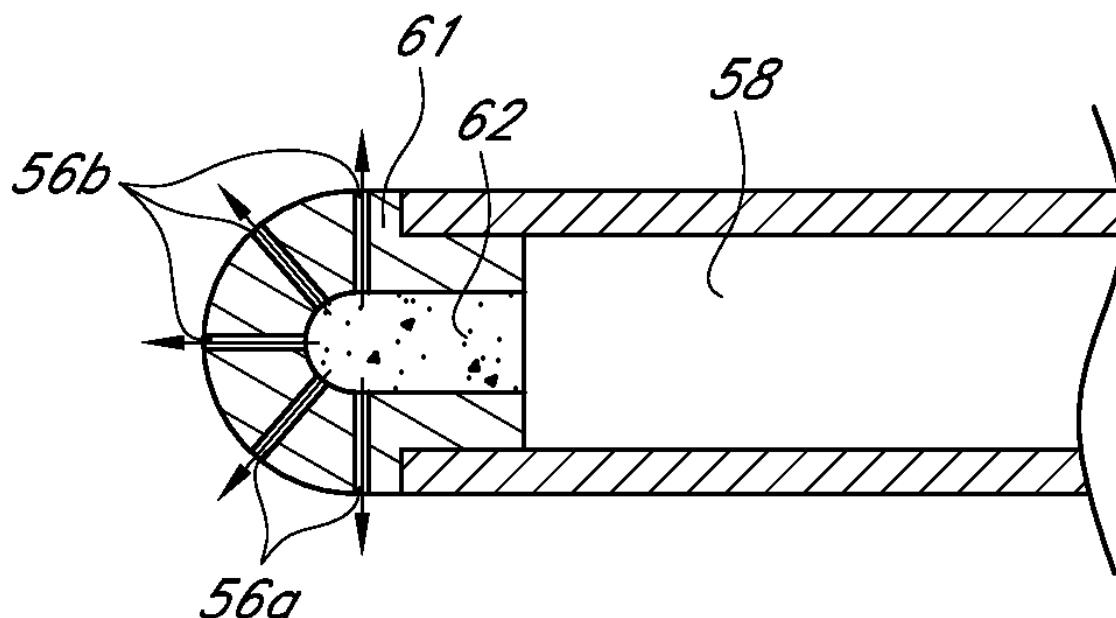
UNIVERSITY OF COLORADO

Family 39/100 - FAMPAT - ©Questel

Title

(EP2654715)

Drug eluting **ocular** implant**Images**



Publication data including kind & date

WO2012071476	A2	2012-05-31	WO201271476
WO2012071476	A3	2012-08-09	WO201271476
EP2654715	A2	2013-10-30	EP2654715
US20130289467	A1	2013-10-31	US20130289467
EP2654715	B1	2017-01-25	EP2654715
US9668915	B2	2017-06-06	US9668915



Abstract

(EP2654715)

Disclosed herein are drug delivery devices and methods for the treatment of **ocular** disorders requiring targeted and controlled administration of a drug to an interior portion of the eye for reduction or prevention of symptoms of the disorder. The devices are capable of controlled release of one or more drugs and may also include structures which allow for treatment of increased intraocular pressure by permitting aqueous humor to flow out of the anterior chamber of the eye through the device.

Inventors

HAFFNER DAVID

CURRY KEN

HEITZMANN HAROLD

APPLEGATE DAVID

Latest standardized assignees - inventors removed

DOSE MEDICAL

Family 40/100 - FAMPAT - ©Questel

Title

(EP2649970)

Ocular implants and methods

Images



US9402767	B2	2016-08-02	US9402767
CN103932840	B	2017-04-12	CN103932840B
IN300401	B	2018-08-28	IN-300401
CA2924955	C	2018-10-16	CA2924955



Abstract

(EP2649970)

An **ocular** implant adapted to reside at least partially in a portion of Schlemm's canal of an eye. In some embodiments the implant has a body extending in a curved volume whose longitudinal axis forms an arc of a circle, and a plurality of open areas and strut areas formed in the body, the open areas extending over more than 50% of a surface defining the curved volume, the strut areas surrounding the open areas, the body having a diameter of between 0.005 inches and 0.04 inches. The invention also provides a method of treating glaucoma including the steps of supporting tissue forming Schlemm's canal in an eye with an implant extending at least partially in the canal along an axial length within the canal; and contacting with the implant less than 50% of the tissue forming the canal along the axial length.

Inventors

SCHIEBER ANDREW T

EUTENEUER CHARLES L

Latest standardized assignees - inventors removed

IVANTIS

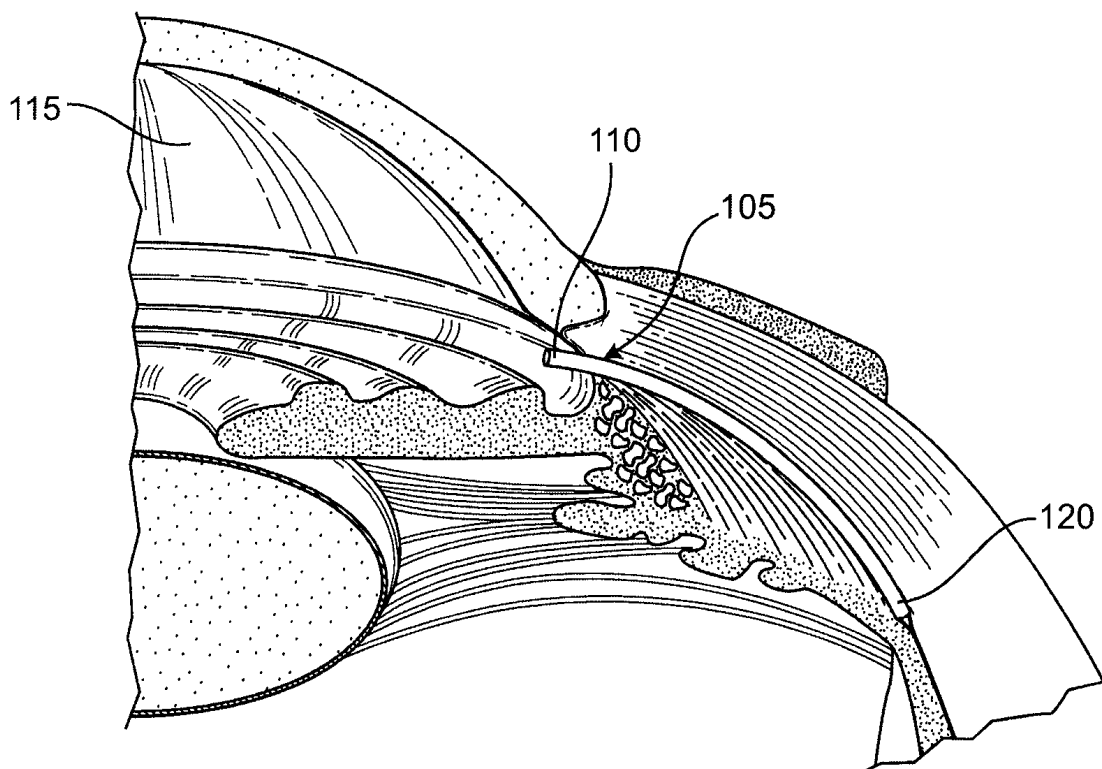
Family 41/100 - FAMPAT - ©Questel

Title

(EP3005996)

Glaucoma treatment device

Images



Publication data including kind & date

CA2927921	A1	2007-08-02	CA2927921
WO2007087061	A2	2007-08-02	WO2007087061
CA2637656	A1	2007-08-02	CA2637656



AU2006336598	A1	2007-08-02	AU2006336598				
US20070191863	A1	2007-08-16	US20070191863				
WO2007087061	A3	2007-12-13	WO200787061				
EP1979023	A2	2008-10-15	EP1979023				
CN101360523	A	2009-02-04	CN101360523				
JP2009523540	A	2009-06-25	JP2009523540				
US20100010416	A1	2010-01-14	US20100010416				
US20110028883	A1	2011-02-03	US20110028883				
US20110098629	A1	2011-04-28	US20110098629				
US20110306915	A1	2011-12-15	US20110306915				
JP2012125606	A	2012-07-05	JP2012125606				
EP1979023	A4	2012-10-31	EP1979023				
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US8721656	B2	2014-05-13	US8721656				
US8734378	B2	2014-05-27	US8734378				
US8801649	B2	2014-08-12	US8801649				
US8814819	B2	2014-08-26	US8814819				
JP5581351	B2	2014-08-27	JP5581351				
US20140378886	A1	2014-12-25	US20140378886				
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US20150238360	A1	2015-08-27	US20150238360				
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US20150335487	A1	2015-11-26	US20150335487				
EP3005996	A1	2016-04-13	EP3005996				
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US9398977	B2	2016-07-26	US9398977				
US9421130	B2	2016-08-23	US9421130				
US9789000	B2	2017-10-17	US9789000				
US20180092775	A1	2018-04-05	US20180092775				

Abstract

(EP3005996)

Devices (525) are adapted for implanting into the eye. An incision is formed in the cornea of the eye and a **shunt** (105) is inserted through the incision into the anterior chamber of the eye. The **shunt** includes a fluid passageway. The **shunt** is passed along a pathway from the anterior chamber through the scleral spur of the eye into the suprachoroidal space and positioned in a first position such that a first portion of the fluid passageway communicates with the anterior chamber and a second portion of the fluid passageway communicates with the suprachoroidal space to provide a fluid passageway between the suprachoroidal space and the anterior chamber.

Inventors

DE JUAN EUGENE

BOYD STEPHEN

DEEM MARK E

GIFFORD HANSON S III

NOVARTIS

Images



US20080089480	A1	2008-04-17	US20080089480
US20080089481	A1	2008-04-17	US20080089481
US20080144771	A1	2008-06-19	US20080144771
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EP2992863	A1	2016-03-09	EP2992863				
EP2992931	A1	2016-03-09	EP2992931				
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EP2995349	B1	2018-04-11	EP2995349				
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EP2992863	B1	2018-12-12	EP2992863				
JP6464335	B2	2019-02-06	JP6464335				

Abstract

(EP2995349)

A radiosurgery system describes a therapeutic radiation delivery to a target structure in a patient. The radiosurgery system treats inflammatory **ocular** disorders; places **ocular** structures in a global coordinate system based on **ocular** imaging; automates **ocular** structures inside the global coordinate system to direction of a positioning system that is directed based on **ocular** structures within the coordinate system; tracks and relates the position of **ocular** structures to the status of the radiosurgery system; determines beam energy and direction and duration of time for treatment for a specific disease to be treated and/or structures to be avoided; tracks structure of an eye; holds and fixes the eye is in place; places a fiducial is on the eye to aid in positioning; positions the eye off the refelction; and combines with other treatments and can be delivered concomitant with, prior to, or following other treatments.

Inventors

GERTNER MICHAEL

CHELL ERIK

HANSEN STEVEN

ARNOLDUSSEN MARK

HERRON MATT

PAN KUANG-HUNG

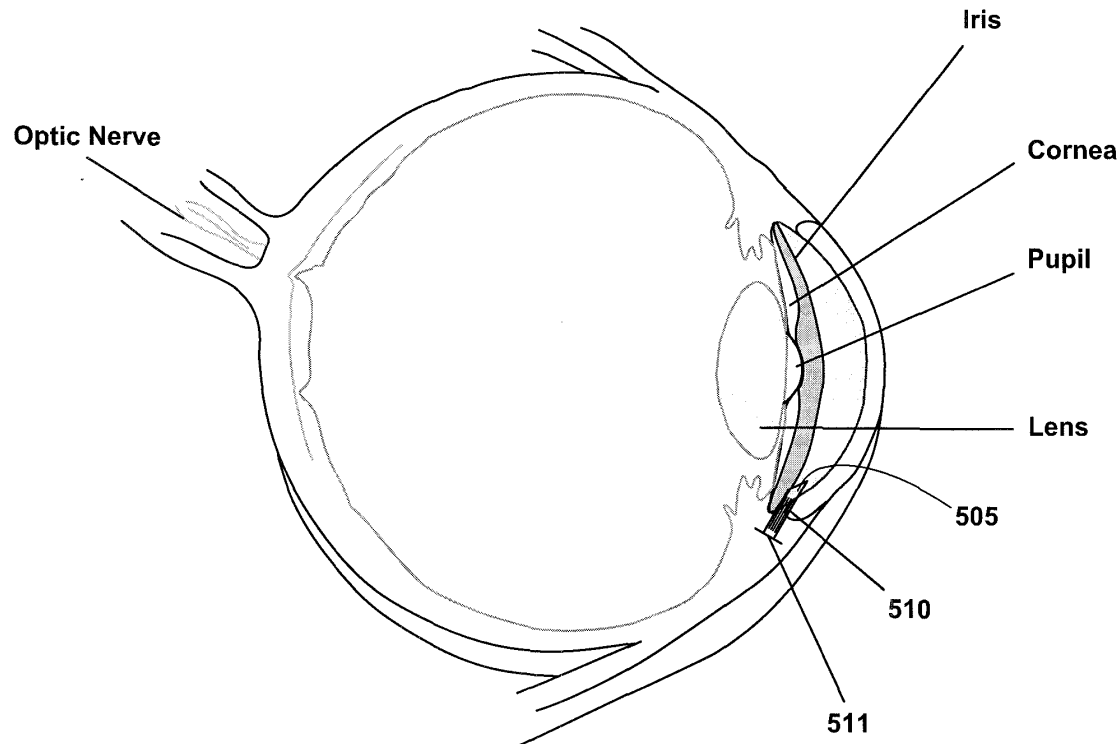
Latest standardized assignees - inventors removed

CARL ZEISS

Family 43/100 - FAMPAT - ©Questel

Title

(EP2906145)

Ocular filtration devices, systems and methods**Images****Publication data including kind & date**

WO2014059233	A1	2014-04-17	WO201459233
EP2906145	A1	2015-08-19	EP2906145
US20150265469	A1	2015-09-24	US20150265469
EP2906145	A4	2016-07-06	EP2906145

**Abstract**

(EP2906145)

A glaucoma drainage device regulator (GDDR) is disclosed which comprises a membrane and a lumen to regulate the flow of aqueous in conjunction with different **ocular** (e.g., glaucoma) filtering procedures. In connection with aqueous shunting, the GDDR can be placed over the tip of a **shunt** tube in the anterior chamber, either at the time of initial surgery or also in devices which have been previously implanted. In connection with trabeculectomy, the GDDR can comprise a flange for seating the GDDR at the sclerostomy in trabeculectomy surgery.

Inventors

OLSON JEFFREY

BHANDARI RAMANATH

Latest standardized assignees - inventors removed

UNIVERSITY OF COLORADO

Family 44/100 - FAMPAT - ©Questel

Title

(EP3338743)

Drug delivery treatment device

Disclosed are devices and methods for treatment of eye disease. The suprachoroidal space is used as a conduit within which to place a drug delivery device. One such drug delivery device may be a tube, wicking element, bioabsorbable polymer structure, or other configuration of drug delivery substrate. The delivery device may include a port on the proximal end to assist in repeat **injection**, and may include a reservoir to either collect flow from the aqueous to concentrate it along the length of the device, or act as a repository for **injected** agent.

Inventors

GIFFORD HANSON S III

MACFARLANE ANGELA

REICH CARY

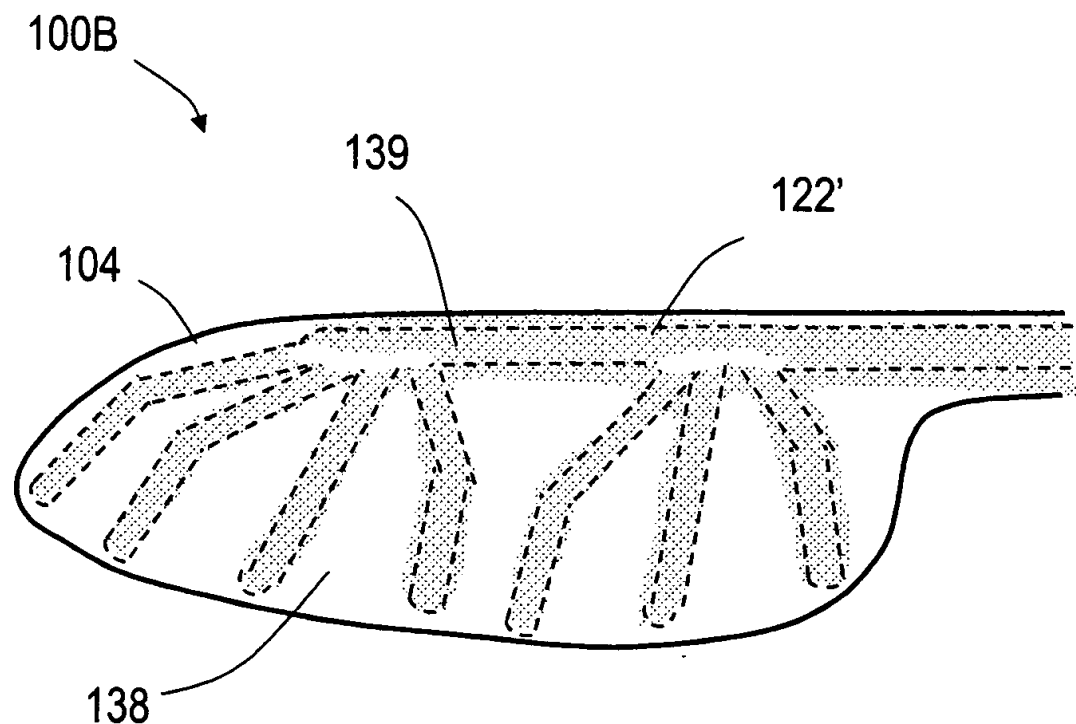
Latest standardized assignees - inventors removed

NOVARTIS

Family 45/100 - FAMPAT - ©Questel

Title

(US20040193262)

Implants for treating **ocular** hypertension, methods of use and methods of fabrication**Images****Publication data including kind & date**[US20040193262](#) A1 2004-09-30 US20040193262[US20040193095](#) A1 2004-09-30 US20040193095**Abstract**

(US20040193262)

A **stent** for treating **ocular** hypertension by providing means for enhancing outflows of aqueous humor from the anterior chamber. An exemplary **stent** is fabricated of a shape memory polymer (SMP) that can withstand very large reversible inelastic strains for storing energy in a temporary reduced cross-sectional shape. In one embodiment, the **stent** in a temporary shape is introduced into a targeted tissue volume in and about the eye's aqueous outflow pathways. Following minimally invasive implantation of the **stent**, body temperature or another stimulus causes the **stent** to move from its temporary shape to its memory shape thereby releasing stored energy to retract the tissue to open flow pathways or increase tissue permeability. In another embodiment, the SMP **stent** body has interior flow passageways to provide addition

fluid outflow means. In several embodiments, the **stent** can be of a shape memory alloy material.

Inventors

SHADDUCK JOHN H

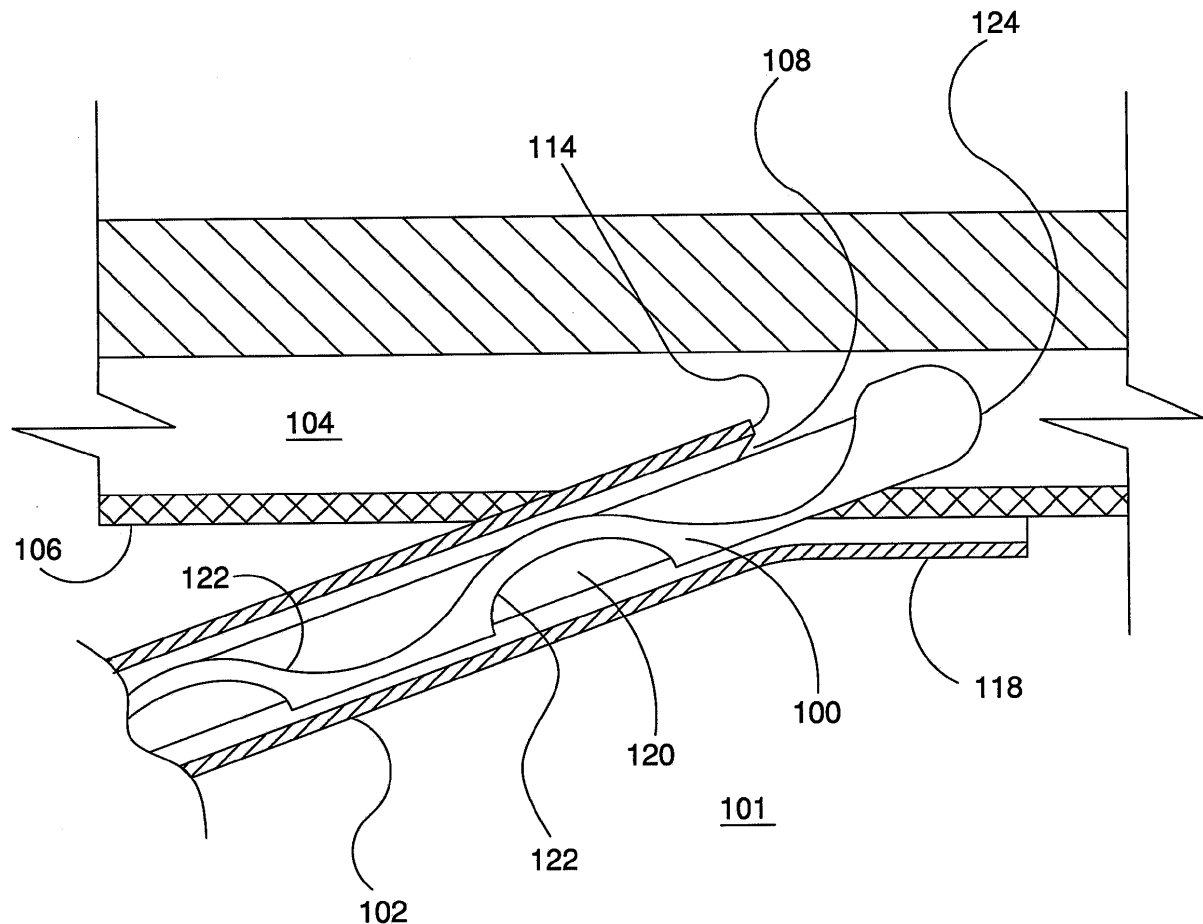
Family 46/100 - FAMPAT - ©Questel

Title

(CN103054667)

Ocular implant delivery system and method

Images



Publication data including kind & date

CN103054667	A	2013-04-24	CN103054667
CN103054667	B	2016-01-06	CN103054667B



Abstract

(CN103054667B)

A method of inserting an **ocular** implant into a patient's eye, the **ocular** implant being mounted on a carrier, the method comprising: inserting a cannula into an anterior chamber of the eye; moving a distal exit port of the cannula into communication with Schlemm's canal; and advancing the **ocular** implant and carrier through an exit port of the cannula into Schlemm's canal. The invention also provides an **ocular** implant and delivery system comprising: a cannula comprising a distal exit port adapted to be inserted into a Schlemm's canal portion of an eye; an **ocular** implant; a carrier disposed within the implant and movable with the implant within the cannula; and a proximal control adapted to be operated from exterior to an eye to move at least one of the carrier and the implant when the distal exit port of the cannula is within the eye.

Inventors

D Â· Fien

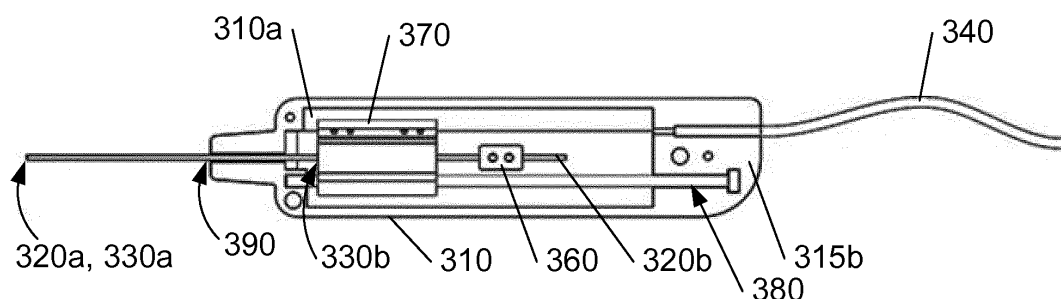
Latest standardized assignees - inventors removed

IVANTIS

Family 47/100 - FAMPAT - ©Questel

Title

(EP3393412)

Ocular implant systems**Images****Publication data including kind & date**

CA3009544	A1	2017-06-29	CA3009544
WO2017108498	A1	2017-06-29	WO2017108498
AU2016378890	A1	2018-07-12	AU2016378890
CN108430404	A	2018-08-21	CN108430404
KR20180098303	A	2018-09-03	KR20180098303
IN201817025784	A	2018-10-26	IN201817025784
EP3393412	A1	2018-10-31	EP3393412
JP2019500130	A	2019-01-10	JP2019500130
US20190038462	A1	2019-02-07	US20190038462

**Abstract**

(EP3393412)

Described herein is an **ocular** implant system in which an implant (200) is deployed in a posterior space of the eye, for example, the suprachoroidal space or the subconjunctival space or the intrascleral space, with an access within the anterior chamber (160) for reducing intraocular pressure therein. The **shunt** (200) is implanted using an implantation device comprising a hollow shaft (330) mounted over a fixed shaft (320). The **shunt** (200) is located in a distal end of the hollow shaft (330) and adjacent a distal end of the fixed shaft (320), the distal end of the fixed shaft being located at a position behind the distal end of the hollow shaft. Once the distal end of the hollow shaft (330) with the **shunt** (200) is located at the desired depth within the posterior space, the hollow shaft is withdrawn over the fixed shaft towards the proximal end thereof to leave the **shunt** in the posterior space with an access within the anterior chamber (160).

Inventors

VANDIEST NICOLAS
DE MARCO EMILIANO
ROY CECILE

Latest standardized assignees - inventors removed

ISTAR MEDICAL

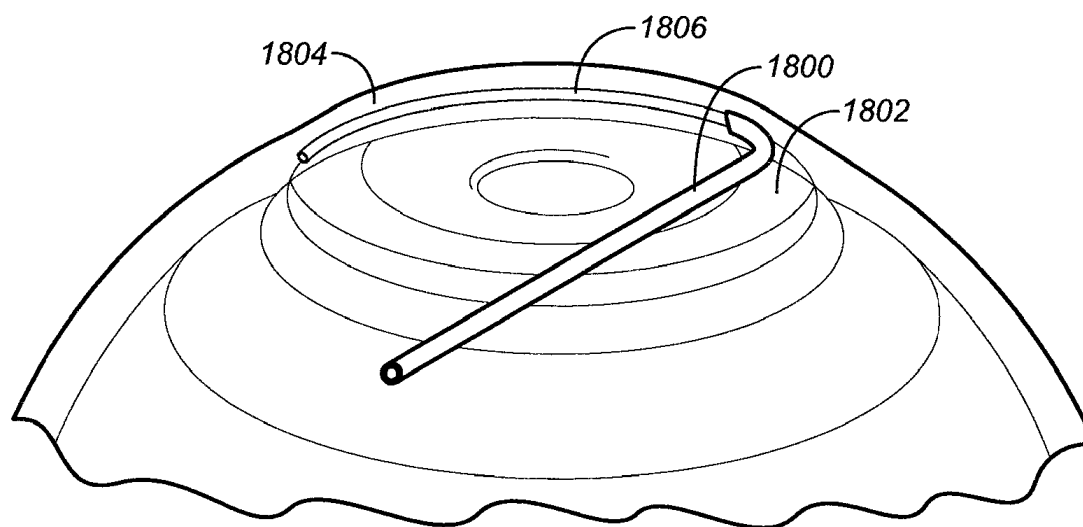
Family 48/100 - FAMPAT - ©Questel

Title

(EP1416985)

Improved **shunt** device and method for treating glaucoma**Images**

(EP3047823)

Ocular delivery systems**Images****Publication data including kind & date**

CA2878271	A1	2013-09-26	CA2878271
US20130253438	A1	2013-09-26	US20130253438
US20130253437	A1	2013-09-26	US20130253437
US20130253403	A1	2013-09-26	US20130253403
US20130253402	A1	2013-09-26	US20130253402
WO2013141898	A1	2013-09-26	WO2013141898
US8894603	B2	2014-11-25	US8894603
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US20150335481	A1	2015-11-26	US20150335481
US9216109	B2	2015-12-22	US9216109
US20160100980	A1	2016-04-14	US20160100980
EP2844200	A4	2016-04-27	EP2844200
EP3047823	A1	2016-07-27	EP3047823
BR112015000941	A1	2017-04-11	BR112015000941
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US9855167	B2	2018-01-02	US9855167
AU2018200231	A1	2018-02-01	AU2018200231
US9895258	B2	2018-02-20	US9895258
US20180271699	A1	2018-09-27	US20180271699
US10179066	B2	2019-01-15	US10179066

**Abstract**

(EP3047823)

Described here are systems and methods for accessing Schlemm's canal and for delivering an **ocular** device or fluid composition therein. The **ocular** devices may maintain the patency of Schlemm's canal without substantially interfering with transmembrane fluid flow across the canal. The fluid composition may be a viscoelastic fluid that is delivered into the canal to facilitate drainage of aqueous humor by disrupting the canal and surrounding trabeculocanalicular tissues. Tools for disrupting these tissues and minimally invasive methods for treating medical conditions associated with elevated intraocular

pressure, including glaucoma, are also described.

Inventors

BADAWI DAVID Y

O'KEEFFE DANIEL

BADAWI PAUL

Latest standardized assignees - inventors removed

SIGHT SCIENCES

Family 50/100 - FAMPAT - ©Questel

Title

(EP2364680)

Microimplants for **ocular** administration

Images



Publication data including kind & date

WO2006093758	A1	2006-09-08	WO200693758				
CA2598512	A1	2006-09-08	CA2598512				
AU2006218931	A1	2006-09-08	AU2006218931				
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EP1863420	B1	2018-04-18	EP1863420				
ES2678401	T3	2018-08-10	ES2678401				
CA2598512	C	2018-08-14	CA2598512				
TR201810174	T4	2018-08-27	TR201810174				

Abstract

(EP2364680)

Implants and microimplants are provided comprising homogeneous mixtures of active ingredient and bioerodible polymer,

Abstract

(EP2753274)

An embodiment in accordance with the present invention provides an apparatus and method for **injecting** a lens into a flap or pocket in the cornea. This lens or pocket preferably is created by a laser used in conventional lasik surgery. The apparatus includes a syringe or handle, a plunger extending movably through the lumen of the syringe, and a paddle. The paddle extends from the distal end of the syringe and is configured to hold the lens to be **injected** into the eye. The paddle also defines a fluid flow path in fluid communication with the lumen of the syringe and configured to allow saline to flow onto the paddle to lift the lens from the paddle, such that the lens can be inserted into the eye.

Inventors

FEINGOLD VLADIMIR

PALLIKARIS IOANNIS

Latest standardized assignees - inventors removed

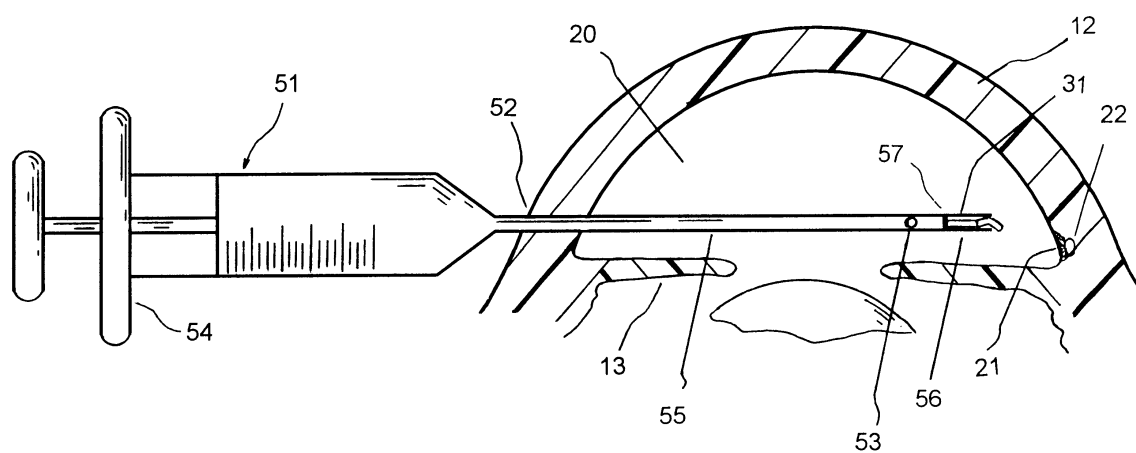
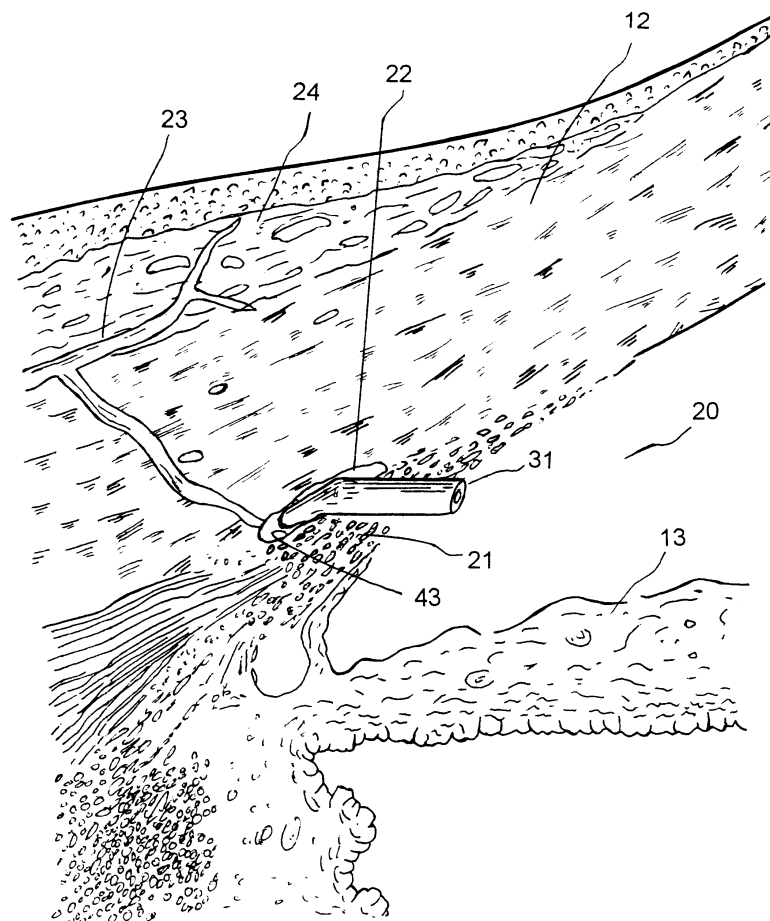
PRESBITECH

Family 52/100 - FAMPAT - ©Questel

Title

(EP2985012)

Implant for treating **ocular** disorders**Images**



Publication data including kind & date

CA2951478	A1	2001-10-25	CA2951478
WO200178631	A2	2001-10-25	WO200178631
CA2791154	A1	2001-10-25	CA2791154
CA2404037	A1	2001-10-25	CA2404037
AU4552201	A	2001-10-30	AU200145522
WO200178631	A3	2002-04-18	WO200178631
EP1278492	A2	2003-01-29	EP1278492
US20030060752	A1	2003-03-27	US20030060752
US20030120200	A1	2003-06-26	US20030120200
US20030181848	A1	2003-09-25	US20030181848
US20030187384	A1	2003-10-02	US20030187384
US20030187385	A1	2003-10-02	US20030187385



US20030191428	A1	2003-10-09	US20030191428				
US6638239	B1	2003-10-28	US6638239				
JP2004500220	A	2004-01-08	JP2004500220				
US6736791	B1	2004-05-18	US6736791				
US6780164	B2	2004-08-24	US6780164				
US20040210185	A1	2004-10-21	US20040210185				
US20040249333	A1	2004-12-09	US20040249333				
US20040254519	A1	2004-12-16	US20040254519				
US20050209549	A1	2005-09-22	US20050209549				
US20050209550	A1	2005-09-22	US20050209550				
US6955656	B2	2005-10-18	US6955656				
AU2001245522	B2	2005-10-27	AU2001245522				
AU2006200392	A1	2006-02-16	AU2006200392				
US20060074375	A1	2006-04-06	US20060074375				
US20060084907	A1	2006-04-20	US20060084907				
US20060195056	A1	2006-08-31	US20060195056				
US20060195055	A1	2006-08-31	US20060195055				
JP2007181714	A	2007-07-19	JP2007181714				
JP3985019	B2	2007-10-03	JP3985019				
US7297130	B2	2007-11-20	US7297130				
US20070282244	A1	2007-12-06	US20070282244				
US20070282245	A1	2007-12-06	US20070282245				
US20080045878	A1	2008-02-21	US20080045878				
US20080234624	A2	2008-09-25	US20080234624				
AU2006200392	B2	2009-04-23	AU2006200392				
EP1278492	B1	2009-04-29	EP1278492				
AT429882	T	2009-05-15	ATE429882				
US20090138081	A1	2009-05-28	US20090138081				
US20090137983	A1	2009-05-28	US20090137983				
DE60138540	D1	2009-06-10	DE60138540				
EP2078516	A2	2009-07-15	EP2078516				
AU2001245522	C1	2009-07-16	AU2001245522				
ES2324700	T3	2009-08-13	ES2324700				
EP2078516	A3	2009-11-04	EP2078516				
AU2006200392	B8	2009-12-03	AU2006200392				
US20100010414	A1	2010-01-14	US20100010414				
EP2260803	A2	2010-12-15	EP2260803				
US7867205	B2	2011-01-11	US7867205				
EP2260803	A3	2011-03-16	EP2260803				
US20110105987	A1	2011-05-05	US20110105987				
JP2011092765	A	2011-05-12	JP2011092765				
US8273050	B2	2012-09-25	US8273050				
US8333742	B2	2012-12-18	US8333742				
EP2078516	B1	2013-01-02	EP2078516				
US20130018296	A1	2013-01-17	US20130018296				
ES2402013	T3	2013-04-26	ES2402013				
JP5255214	B2	2013-08-07	JP5255214				
JP2013208434	A	2013-10-10	JP2013208434				

US8801648	B2	2014-08-12	US8801648				
US8808219	B2	2014-08-19	US8808219				
US8814820	B2	2014-08-26	US8814820				
CA2404037	C	2014-10-14	CA2404037				
EP2260803	B1	2015-07-22	EP2260803				
EP2985012	A1	2016-02-17	EP2985012				
CA2791154	C	2017-01-31	CA2791154				
US9993368	B2	2018-06-12	US9993368				
US20190046355	A1	2019-02-14	US20190046355				

Abstract

(EP2985012)

Surgical methods and related medical devices for treating glaucoma are disclosed. The method comprises trabecular bypass surgery, which involve bypassing diseased trabecular meshwork with the use of a seton implant. The seton implant is used to prevent a healing process known as filling in, which has a tendency to close surgically created openings in the trabecular meshwork. The surgical method and novel implant are addressed to the trabecular meshwork, which is a major site of resistance to outflow in glaucoma. In addition to bypassing the diseased trabecular meshwork at the level of the trabecular meshwork, existing outflow pathways are also used or restored. The seton implant is positioned through the trabecular meshwork so that an inlet end of the seton implant is exposed to the anterior chamber of the eye and an outlet end is positioned into fluid collection channels at about an exterior surface of the trabecular meshwork or up to the level of aqueous veins.

Inventors

BERGHEIM OLAV B

GHARIB MORTEZA

Latest standardized assignees - inventors removed

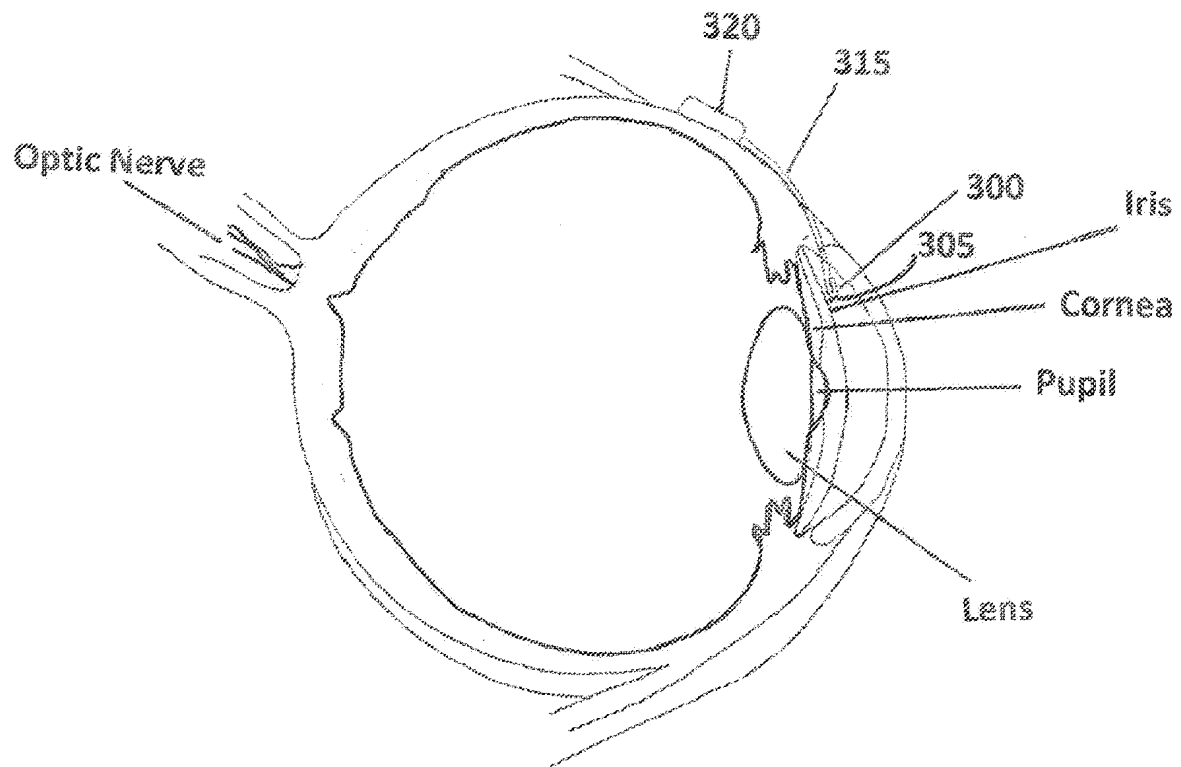
GLAUKOS

Family 53/100 - FAMPAT - ©Questel

Title

(US20180036173)

Ocular filtration devices, systems and methods**Images**

**Publication data including kind & date**[US20180036173](#)

A1 2018-02-08

US20180036173

**Abstract**

(US20180036173)

A glaucoma drainage device regulator (GDDR) is disclosed which comprises a membrane and a **shunt** tube to regulate the flow of aqueous in conjunction with different **ocular** (e.g., glaucoma) filtering procedures. In connection with aqueous shunting, the membrane of the **shunt** tube of the GDDR can be placed in the anterior chamber of the eye during implantation and coupled to a reservoir. The GDDR is implanted in a manner to permit easy access to the membrane for post surgery perforation of the membrane to regulate the aqueous flow of the **shunt** tube.

Inventors

OLSON JEFFREY

BHANDARI RAMANATH

Latest standardized assignees - inventors removed

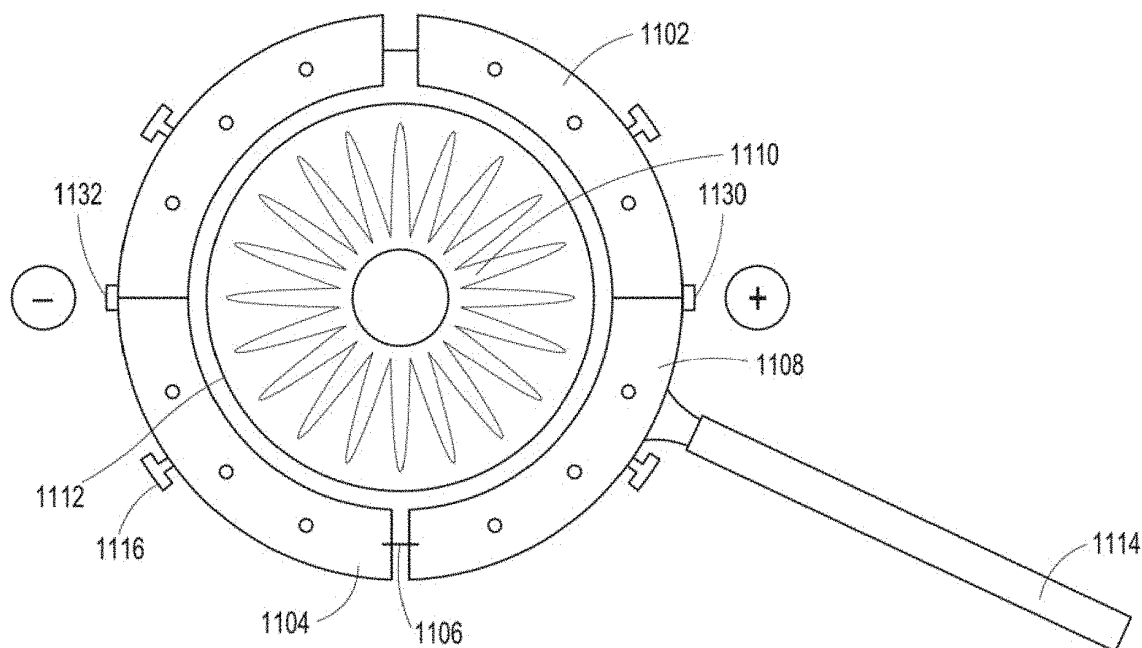
UNIVERSITY OF COLORADO

Family 54/100 - FAMPAT - ©Questel

Title

(EP3367982)

Devices and methods for treatment of **ocular** disorders through delivery of therapeutic nucleic acids**Images**



Publication data including kind & date

US20170119580	A1	2017-05-04	US20170119580
WO2017075105	A1	2017-05-04	WO201775105
WO2017075105	A9	2018-06-28	WO201775105
EP3367982	A1	2018-09-05	EP3367982
JP2018531747	A	2018-11-01	JP2018531747
US10117776	B2	2018-11-06	US10117776



Abstract

(EP3367982)

Several embodiments disclosed herein relate to the delivery of therapeutic nucleic acids to an **ocular** tissue in order to provide a therapeutic effect to reduce symptoms of or otherwise alleviate an **ocular** disorder. In particular embodiments, plasmid DNA is delivered to the cells of the trabecular meshwork in order to ameliorate increasing intraocular pressure. Devices and systems to accomplish this delivery are also disclosed.

Inventors

TAN CHEE HIAN

Latest standardized assignees - inventors removed

DOHENY EYE INSTITUTE

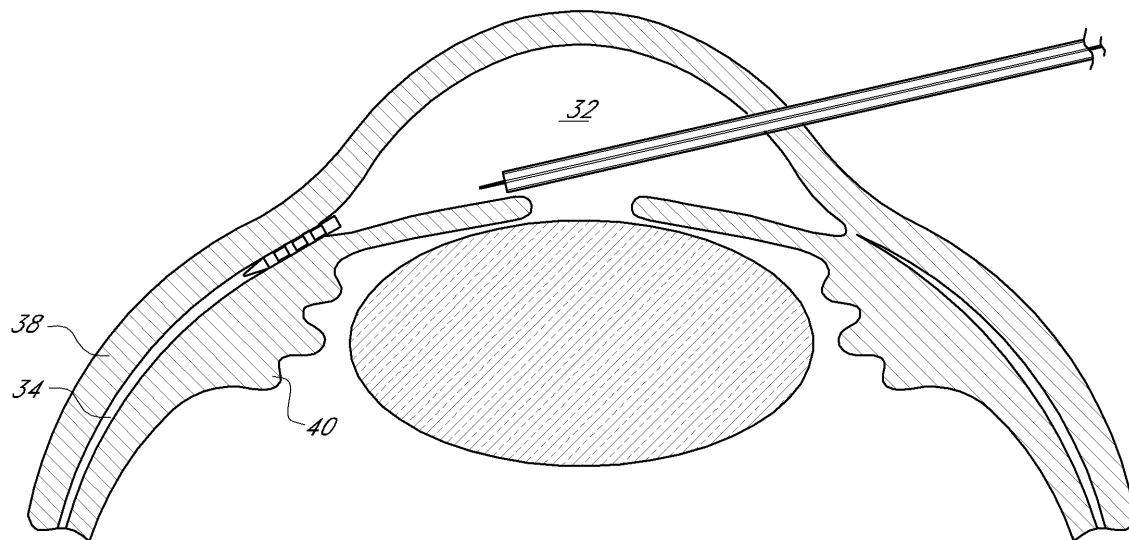
Family 55/100 - FAMPAT - ©Questel

Title

(EP2088976)

Uveoscleral **shunt** and methods for implanting same

Images



Publication data including kind & date

WO2008061043	A2	2008-05-22	WO200861043				
CA2668954	A1	2008-05-22	CA2668954				
AU2007319383	A1	2008-05-22	AU2007319383				
US20080228127	A1	2008-09-18	US20080228127				
WO2008061043	A3	2008-09-25	WO200861043				
EP2088976	A2	2009-08-19	EP2088976				
JP2010509003	A	2010-03-25	JP2010509003				
US8506515	B2	2013-08-13	US8506515				
US20140081194	A1	2014-03-20	US20140081194				
JP2014240022	A	2014-12-25	JP2014240022				
JP5748407	B2	2015-07-15	JP5748407				
US9962290	B2	2018-05-08	US9962290				
US20180325732	A1	2018-11-15	US20180325732				

Abstract

(EP2088976)

Devices and methods for treating intraocular pressure are disclosed. The devices include shunts for draining aqueous humor from the anterior chamber to the uveoscleral outflow pathway, including the supraciliary space and the suprachoroidal space. The shunts are preferably implanted by an ab interno procedure.

Inventors

BURNS THOMAS W
HAFFNER DAVID
HEITZMANN HAROLD A
FJELD TODD N
HILL RICHARD A

Latest standardized assignees - inventors removed

GLAUKOS

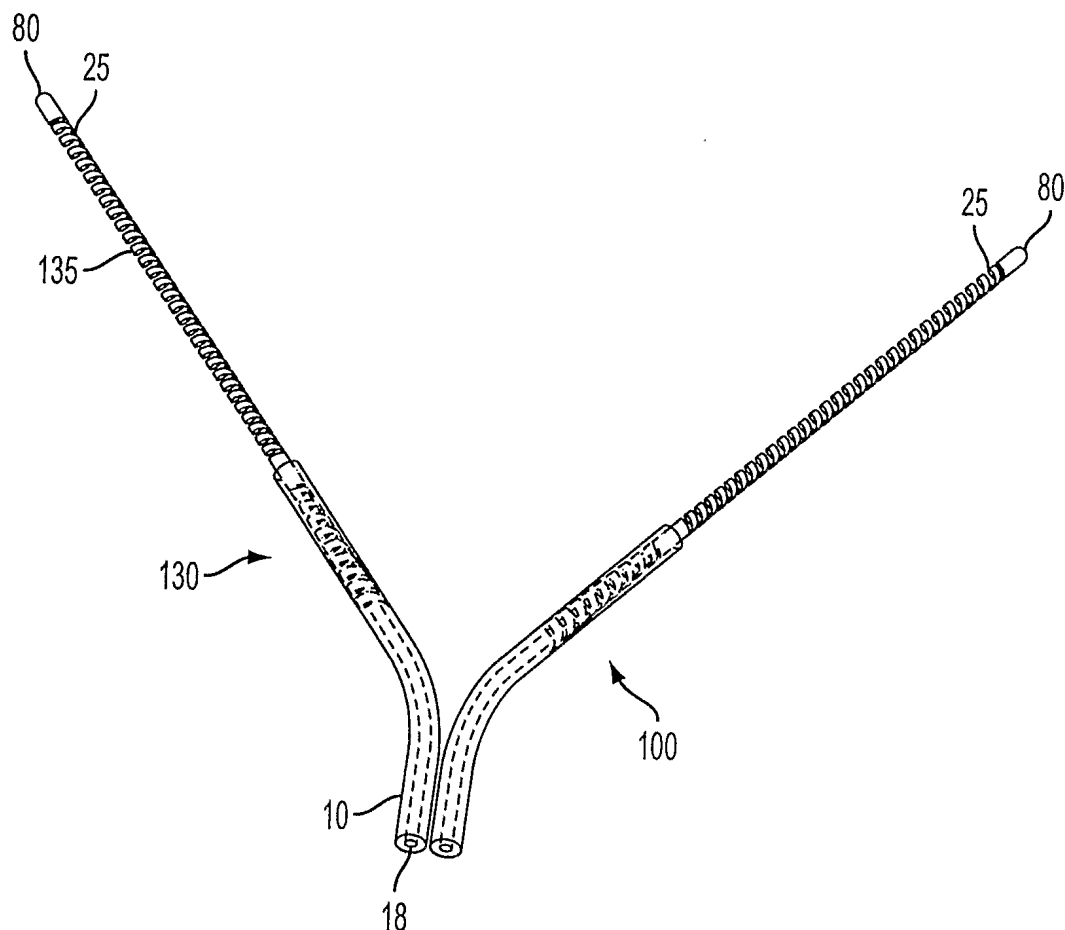
Family 56/100 - FAMPAT - ©Questel

Title

(EP1737531)

Indwelling **shunt** device and methods for treating glaucoma

Images



Publication data including kind & date

WO2005105197	A2	2005-11-10	WO2005105197
CA2563364	A1	2005-11-10	CA2563364
WO2005105197	A3	2006-04-27	WO2005105197
EP1737531	A2	2007-01-03	EP1737531
JP2007534383	A	2007-11-29	JP2007534383



Abstract

(EP1737531)

The present invention is directed to a novel indwelling **shunt** implant (100) and an associated surgical method for the treatment of glaucoma in which the implant device comprises at least one spiral body and/or grooved or corrugated body and is placed to divert aqueous humor from the anterior chamber of the eye into Schlemm's canal, the collector channels, or the aqueous venous system or to distribute aqueous fluid within Schlemm's canal. The present invention is further directed to providing a permanent, indwelling **shunt** to provide increased egress of aqueous humor from the anterior chamber to Schlemm's canal, collector channels, or aqueous venous system for glaucoma management.

Inventors

SOLOVAY KENNETH
GOBRON STEPHANE
LYNCH MARY G
BROWN REAY H

Latest standardized assignees - inventors removed

GMP VISION SOLUTIONS

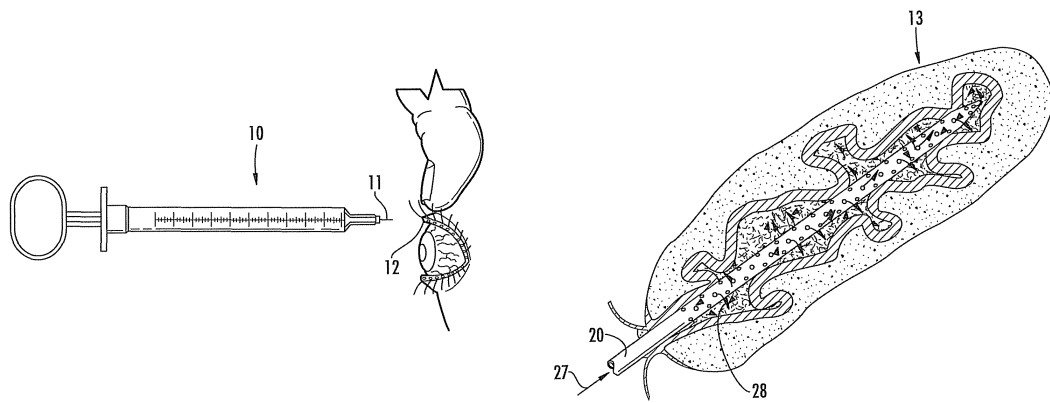
Family 57/100 - FAMPAT - ©Questel

Title

(EP2222355)

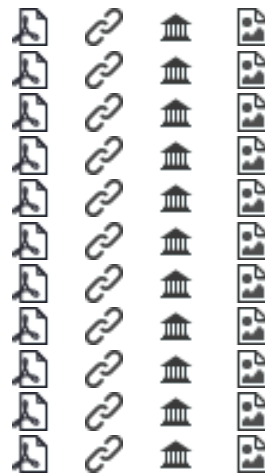
Meibomian gland intraductal diagnostic and treatment methods and related apparatus

Images



Publication data including kind & date

WO2009064834	A2	2009-05-22	WO200964834
WO2009064834	A3	2009-07-23	WO200964834
US20100100029	A1	2010-04-22	US20100100029
EP2222355	A2	2010-09-01	EP2222355
US20100292630	A1	2010-11-18	US20100292630
EP2222355	A4	2010-12-01	EP2222355
EP2222355	B1	2014-09-03	EP2222355
ES2510843	T3	2014-10-21	ES2510843
US9510844	B2	2016-12-06	US9510844
US20170079842	A1	2017-03-23	US20170079842
US10159599	B2	2018-12-25	US10159599



Abstract

(EP2222355)

A method is provided for treating a meibomian gland of an eyelid of a patient. In a particular embodiment, an obstruction in a meibomian gland and the orifice thereof can be alleviated; in another, a substance can be **injected** thereinto; in yet another, the gland can be aspirated. The method includes the step of inserting an elongated probe into a meibomian gland via an orifice thereinto. In some embodiments the probe can have a longitudinal lumen therethrough, with at least one distal hole through the probe wall in fluid communication with the lumen. The lumen can be used in concert with a source of suction for removing debris from the meibomian gland, and/or with a source of a fluid and pumping means, for **injecting** a substance into the meibomian gland.

Inventors

MASKIN STEVEN L

Latest standardized assignees - inventors removed

MGD INNOVATIONS

Family 58/100 - FAMPAT - ©Questel

Title

(WO201844684)

Tool(s) for inserting a glaucoma **shunt**

Images

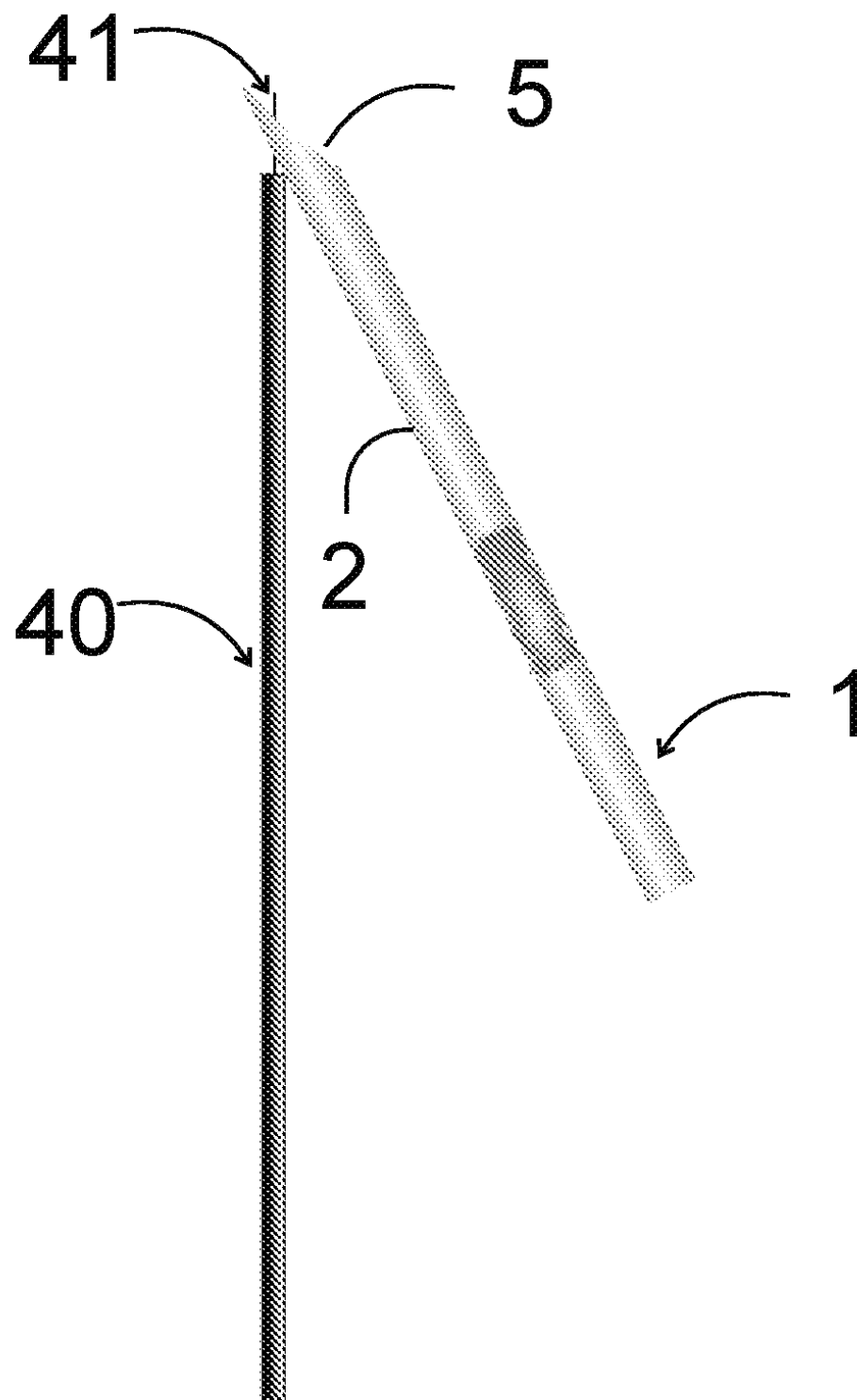


FIG. 4A

Publication data including kind & date

WO2018044684	A1	2018-03-08	WO201844684
TW201811280	A	2018-04-01	TW201811280
WO2018044684	A4	2018-04-26	WO201844684

**Abstract**

(WO201844684)

A glaucoma treatment system includes a glaucoma drainage device having a flexible tube with distal and proximal ends, and an inserter with a filament that extends beyond the distal end of a rigid elongate member (e.g., rod or inserter tube). The filament is configured to detachably couple a distal portion of the drainage device tube to the elongate member of the inserter. The filament may extend through a wall of the distal portion of the drainage device tube. The filament and elongate member of the inserter can be configured for relative movement to detach the drainage device tube from the inserter. The elongate member can define an internal channel, and the filament can be configured for axial movement in this channel so that the filament may move toward the proximal end of the elongate member to detach the drainage device tube from the inserter. Other tools are described and claimed.

Inventors

PINCHUK LEONARD

MARTIN JOHN B

LE ANH

Latest standardized assignees - inventors removed

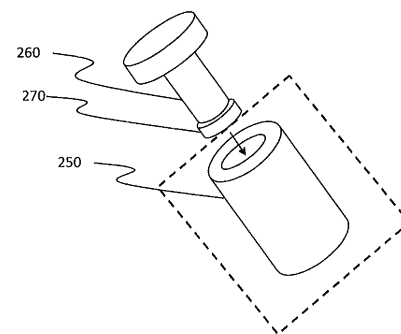
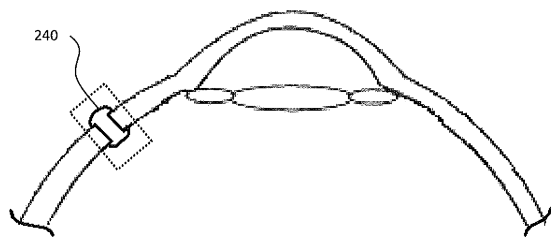
INNFOCUS

Family 59/100 - FAMPAT - ©Questel

Title

(EP3092983)

Trans-sclera portal for delivery of therapeutic agents

Images**Publication data including kind & date**

US20140276329	A1	2014-09-18	US20140276329
CA2907041	A1	2014-09-25	CA2907041
WO2014149451	A1	2014-09-25	WO2014149451
AU2014238174	A1	2015-10-08	AU2014238174
EP2967983	A1	2016-01-20	EP2967983
EP3092983	A1	2016-11-16	EP3092983
US9597227	B2	2017-03-21	US9597227
US20170165112	A1	2017-06-15	US20170165112
US20170165111	A1	2017-06-15	US20170165111
AU2014238174	B2	2018-08-02	AU2014238174



[AU2018220022](#)

A1 2018-09-06

[AU2018220022](#)[AU2018253472](#)

A1 2018-11-15

[AU2018253472](#)**Abstract**

(EP3092983)

The invention relates to an implantable **shunt** for delivery of an ophthalmic therapeutic agent into an eye, comprising a swell loadable polymeric **ocular** insert with a micron scale tab that, when inserted into the eye, is configured to extend through the sclera as an external mass transport channel.

Inventors

URBANIAK DANIEL J

STANKUS JOHN J

HOSSAINY SYED

SU JAMES

TROLLSAS MIKAEL O

Latest standardized assignees - inventors removed

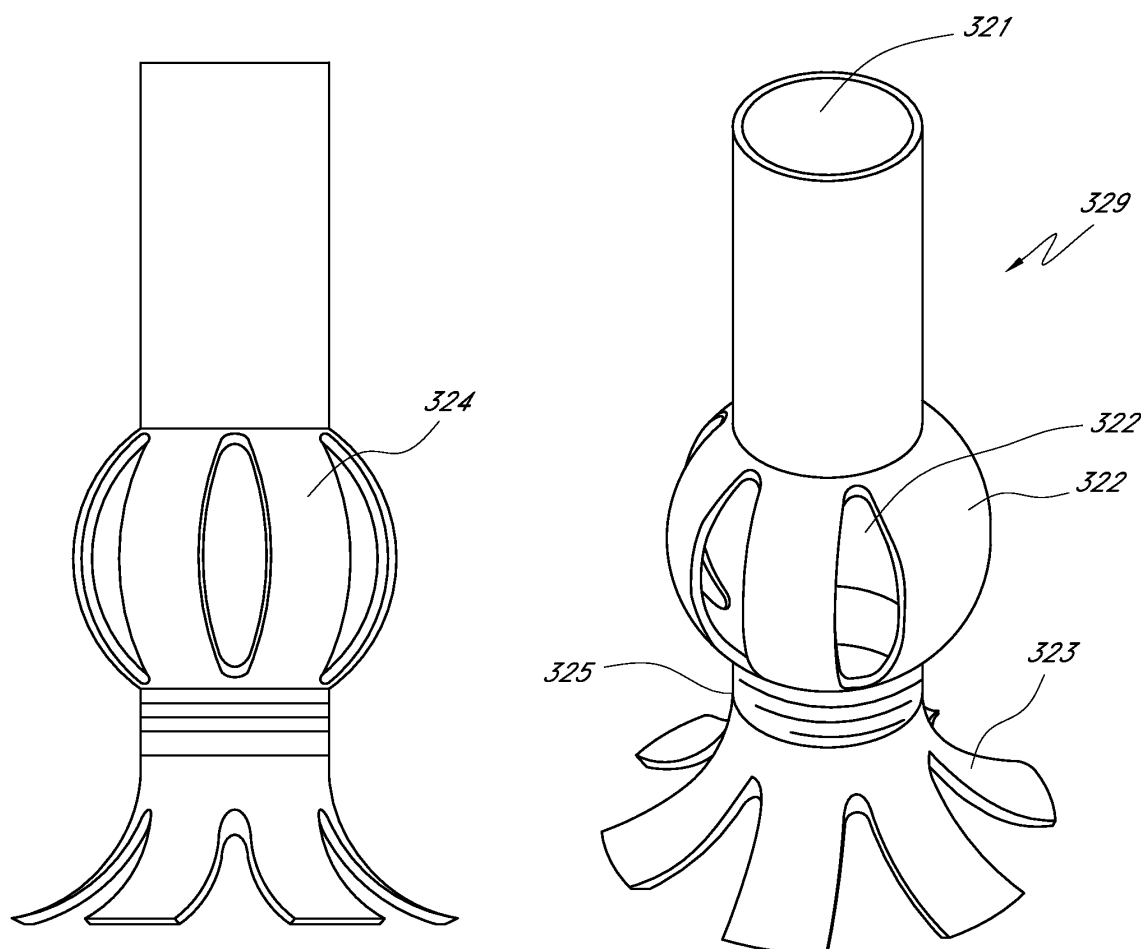
JOHNSON & JOHNSON SURGICAL VISION

Family 60/100 - FAMPAT - ©Questel

Title

(EP2351589)

Devices for glaucoma treatment

Images**Publication data including kind & date**[US20040102729](#)

A1 2004-05-27

[US20040102729](#)[US20040147870](#)

A1 2004-07-29

[US20040147870](#)

US20040254520	A1	2004-12-16	US20040254520				
WO2005016418	A1	2005-02-24	WO200516418				
CA2530234	A1	2005-02-24	CA2530234				
AU2004264913	A1	2005-02-24	AU2004264913				
US20050266047	A1	2005-12-01	US20050266047				
US20050271704	A1	2005-12-08	US20050271704				
EP1651291	A1	2006-05-03	EP1651291				
JP2007501066	A	2007-01-25	JP2007501066				
EP1651291	A4	2007-08-15	EP1651291				
US20070276316	A1	2007-11-29	US20070276316				
US20070276315	A1	2007-11-29	US20070276315				
US7431710	B2	2008-10-07	US7431710				
US7867186	B2	2011-01-11	US7867186				
US7879001	B2	2011-02-01	US7879001				
EP2351589	A1	2011-08-03	EP2351589				
AU2004264913	B2	2011-08-25	AU2004264913				
JP2013009982	A	2013-01-17	JP2013009982				
EP1651291	B1	2013-03-13	EP1651291				
ES2413388	T3	2013-07-16	ES2413388				
JP5249513	B2	2013-07-31	JP5249513				
US20130253405	A1	2013-09-26	US20130253405				
US20130253404	A1	2013-09-26	US20130253404				
EP2351589	B1	2013-11-06	EP2351589				
ES2445717	T3	2014-03-04	ES2445717				
JP2014193366	A	2014-10-09	JP2014193366				
CA2530234	C	2014-11-25	CA2530234				
JP5698198	B2	2015-04-08	JP5698198				
JP5886354	B2	2016-03-16	JP5886354				
US9301875	B2	2016-04-05	US9301875				
US9597230	B2	2017-03-21	US9597230				
US20180036172	A1	2018-02-08	US20180036172				

Abstract

(EP2351589)

Intraocular stents (229) and applicators are disclosed for treating glaucoma. The stents (229) are configured to extend between the anterior chamber of the eye and Schlemm's canal (22) for enhancing outflow of aqueous from the anterior chamber (20) so as to reduce intraocular pressure. The stents (229) can have features for anchoring the **stent** into Schlemm's canal (22) as well as preventing the walls of Schlemm's canal (22) from closing the outlet of the stents (229). The applicators can be steerable so as to make implantation easier. Additionally, the applicators can be configured to hold a plurality of stents so that multiple stents can be implanted through one incision without removing the applicator from the incision between serial implantations.

Inventors

HAFFNER DAVID

SMEDLEY GREGORY T

TU HOSHENG

Latest standardized assignees - inventors removed

GLAUKOS

Family 61/100 - FAMPAT - ©Questel

Title

Abstract

(EP2276492)

The methods described herein provide treatment of glaucoma, ocular hypertension, and elevated intraocular pressure with latanoprost or other therapeutic agent(s). Implant devices for insertion into a punctum of a patient provide sustained release of latanoprost or other therapeutic agent(s) that is maintained for 7, 14, 21, 30, 45, 60, or 90 days or more, thus avoiding patient noncompliance and reducing or lowering adverse events associated with eye drop administration of latanoprost or other therapeutic agent(s) and other therapeutic agent(s).

Inventors

BUTUNER ZUHAL

Latest standardized assignees - inventors removed

MATI THERAPEUTICS

Family 62/100 - FAMPAT - ©Questel

Title

(EP3277236)

Ocular delivery systems and methods

Images

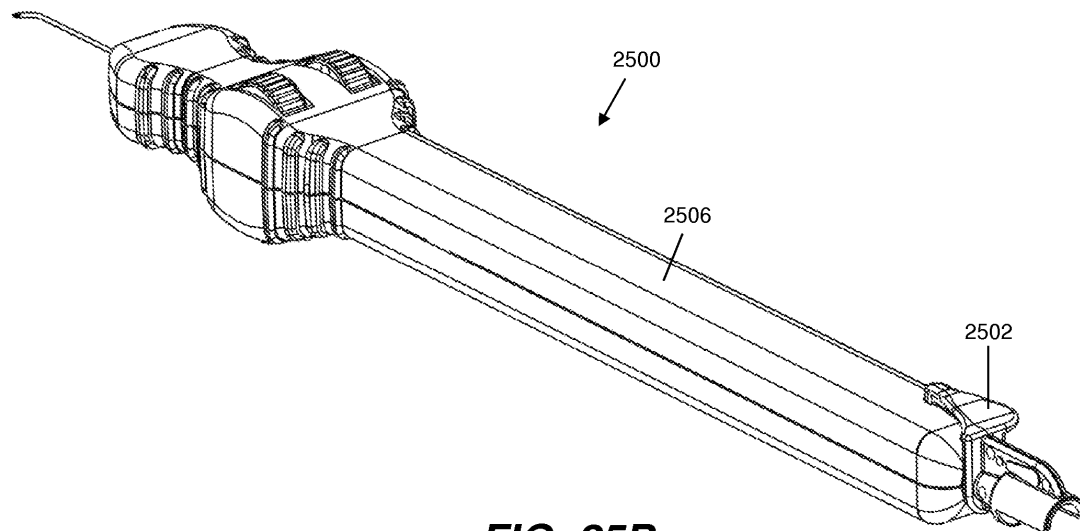


FIG. 25B

Publication data including kind & date

CA2980713	A1	2016-10-06	CA2980713
WO2016159999	A1	2016-10-06	WO2016159999
AU2015390071	A1	2017-10-12	AU2015390071
CN107530190	A	2018-01-02	CN107530190
EP3277236	A1	2018-02-07	EP3277236
JP2018513696	A	2018-05-31	JP2018513696
EP3277236	A4	2018-12-19	EP3277236



Abstract

(EP3277236)

Described here are systems and methods for accessing Schlemm's canal and for delivering an **ocular** device, tool, or fluid composition therein. The **ocular** devices may maintain the patency of Schlemm's canal without substantially interfering with transmurial fluid flow across the canal. The fluid composition may be a viscoelastic fluid that is delivered into the canal to facilitate drainage of aqueous humor by disrupting the canal and surrounding trabeculocanicular tissues. Some systems described here may be configured to cut or tear the trabecular meshwork with the body of an elongate member located

chamber of an eye; separating first and second walls of tissues which comprise the physiologic outflow pathway by **injecting** a fluid comprising a drug from the instrument while the instrument remains in the physiologic outflow pathway; and withdrawing the instrument with said fluid remaining within the eye such that the drug has a therapeutic effect on the eye.

Inventors

SMEDLEY GREGORY

HAFFNER DAVID

TU HOSHENG

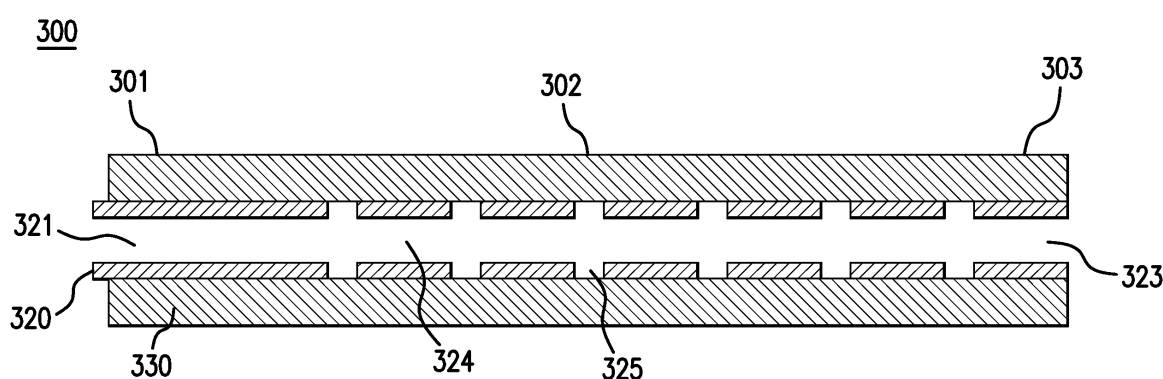
Latest standardized assignees - inventors removed

GLAUKOS

Family 65/100 - FAMPAT - ©Questel

Title

(WO2012167167)

Eye **shunt** with porous structure**Images****Publication data including kind & date**

WO2012167167	A2	2012-12-06	WO2012167167
US20120310137	A1	2012-12-06	US20120310137
WO2012167167	A3	2013-02-21	WO2012167167

**Abstract**

(WO2012167167)

Disclosed are devices and methods for treatment of eye disease such as glaucoma. An implant is placed in the eye wherein the implant provides a fluid pathway for the flow or drainage of aqueous humor from the anterior chamber to the supraciliary or the suprachoroidal space, or to any space in the eye where drainage to that location will lower the intraocular pressure. The implant may include an elongate compressible structure and may be implanted in the eye using a delivery system that folds and or compresses the implant to provide a smaller cross-sectional area to allow a more minimally-invasive procedure. The compressibility of the implant is provided by a porous structure that may be collapsed by compression and delivered through a tube-shaped introducer.

Inventors

SILVESTRINI THOMAS A

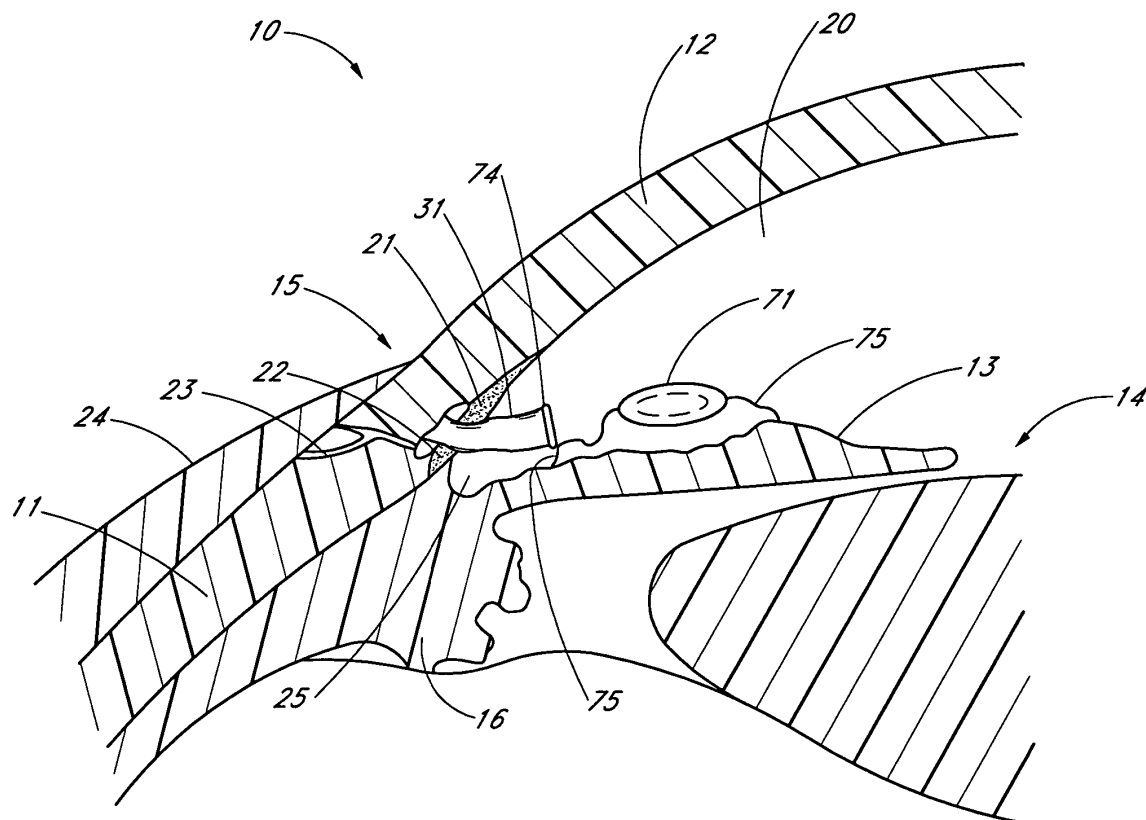
Family 66/100 - FAMPAT - ©Questel

Title

(WO200636715)

Implant and pressure sensor for glaucoma treatment

Images



Publication data including kind & date

US20050119636	A1	2005-06-02	US20050119636
WO2006036715	A2	2006-04-06	WO200636715
CA2581334	A1	2006-04-06	CA2581334
AU2005289837	A1	2006-04-06	AU2005289837
AU2005289837	A2	2006-04-06	AU2005289837
WO2006036715	A3	2007-06-07	WO200636715
US7678065	B2	2010-03-16	US7678065
US20100106073	A1	2010-04-29	US20100106073
US8142364	B2	2012-03-27	US8142364
US20120259195	A1	2012-10-11	US20120259195



Abstract

(WO200636715)

The invention discloses a trabecular **stent** and methods for treating glaucoma. The **stent** may incorporate an intraocular pressure sensor comprising a compressible element that is implanted inside an anterior chamber of an eye, wherein at least one external dimension of the element correlates with intraocular pressure. In some embodiments, the sensor may be coupled to the **stent**. Also disclosed are methods of delivery of the **stent** and the sensor to the eye.

Inventors

HAFFNER DAVID
TU HOSHENG
MORTEZA GHARIB

Latest standardized assignees - inventors removed

GLAUKOS

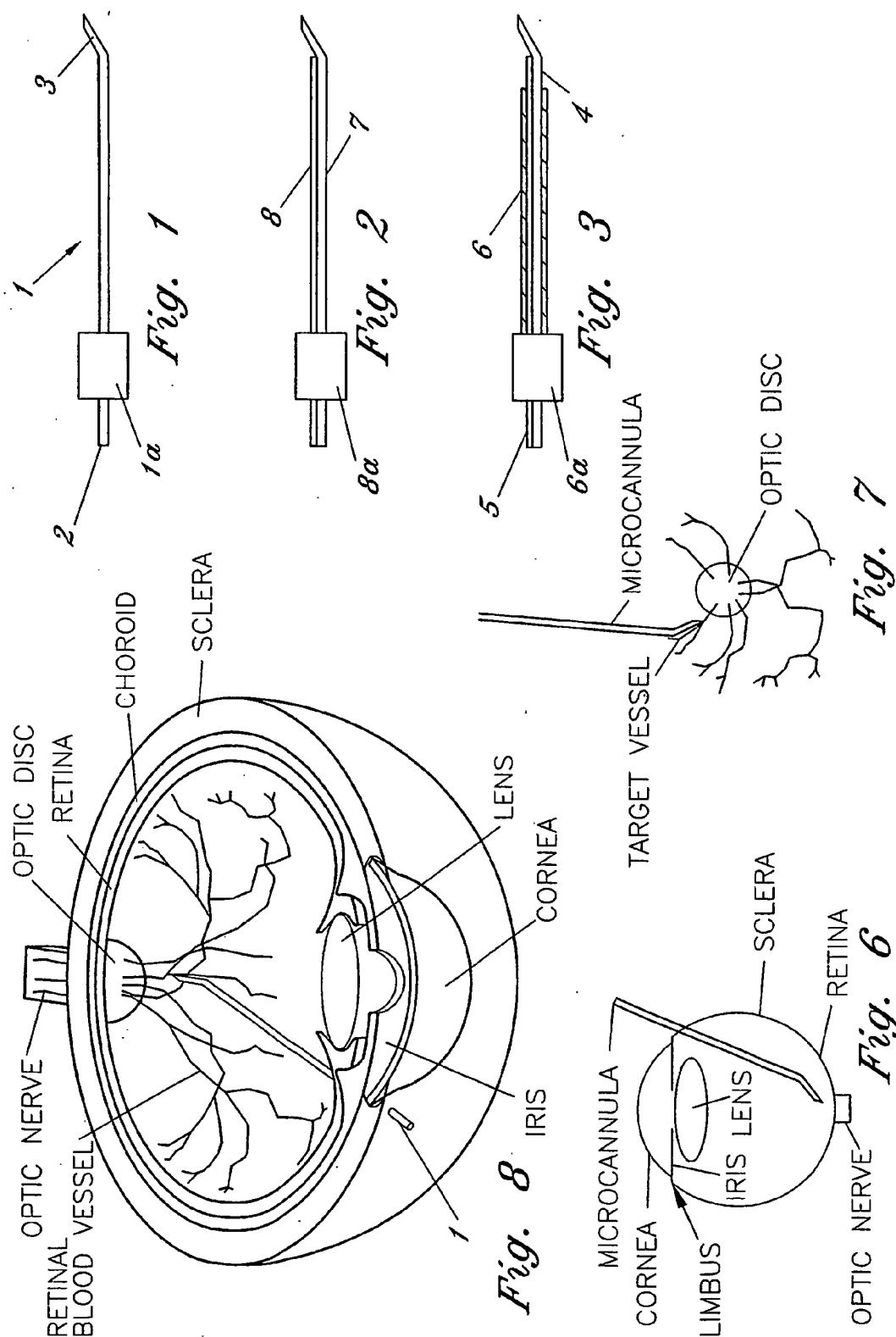
Family 67/100 - FAMPAT - ©Questel

Title

(EP1450884)

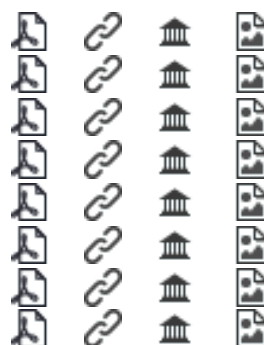
Medical device for Retina operations

Images



Publication data including kind & date

WO03022336	A1	2003-03-20	WO200322336
AU2001290782	A1	2003-03-24	AU2001290782
AU2001290782	A8	2003-03-24	AU2001290782
WO03022336	A8	2004-07-08	WO200322336
EP1450884	A1	2004-09-01	EP1450884
JP2005501666	A	2005-01-20	JP2005501666
EP1450884	A4	2005-04-27	EP1450884



	B1	2010-04-21	EP1450884
AT464926	T	2010-05-15	ATE464926
DE60141922	D1	2010-06-02	DE60141922

**Abstract**

(EP1450884)

An apparatus and method for safely cannulating a retinal blood vessel is described. The apparatus consists of a micropipette/microcannula (9), micromanipulator (14) and positioner (15) mounted to a base (17), which is attached to a wrist rest commonly used in eye surgery. The micropipette/microcannula (9) is connected to tubing (11) such that a medication may be **injected** through the micropipette/microcannula (9) into the blood vessel or conversely, a small quantity of material may be removed from a blood vessel. Alternatively, a catheter, wire or **stent** (27) may be placed through the micropipette/microcannula (9) to treat or diagnose an area remote from the insertion site. The ability to cannulate a retinal blood vessel should be efficacious in the treatment of vein and artery occlusion, **ocular** tumors and other retinal, vascular and optic nerve disorders that would benefit from diagnosis and/or treatment.

Inventors

WEISS JEFFREY N

Latest standardized assignees - inventors removed

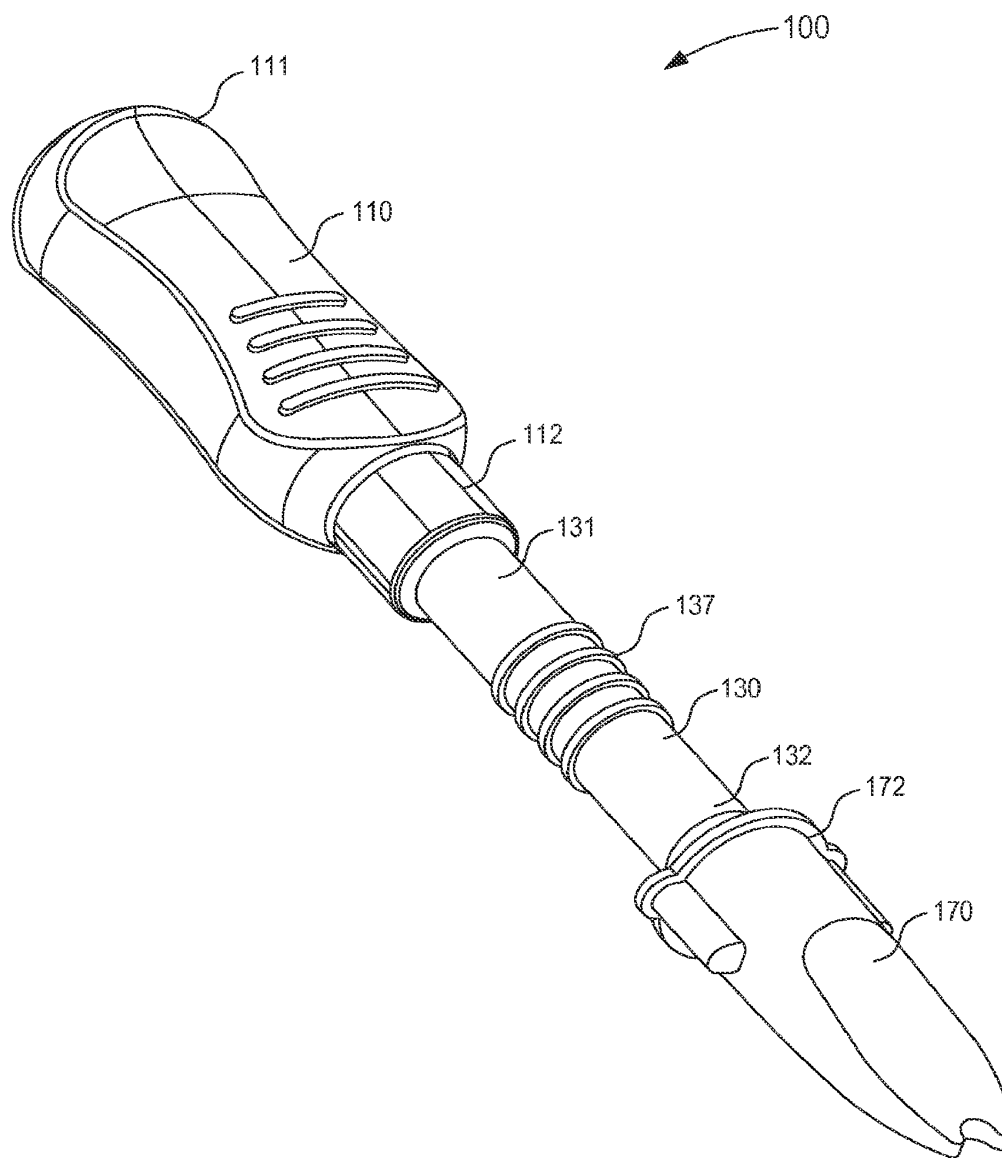
WEISS JEFFREY N

Family 68/100 - FAMPAT - ©Questel

Title

(EP3157463)

Methods and devices for treating posterior **ocular** disorders**Images**



Publication data including kind & date

CA2952822	A1	2015-12-23	CA2952822
WO2015195842	A1	2015-12-23	WO2015195842
AU2015277133	A1	2017-02-02	AU2015277133
IL249602	A	2017-02-28	IL-249602
KR20170039128	A	2017-04-10	KR20170039128
BR112016029864	A1	2017-04-18	BR112016029864
EP3157463	A1	2017-04-26	EP3157463
IN201637044187	A	2017-05-05	IN201637044187
MX2016016836	A	2017-07-27	MX2016016836
CN107072765	A	2017-08-18	CN107072765
BR112016029864	A2	2017-08-22	BR112016029864
JP2017524677	A	2017-08-31	JP2017524677
US20180042765	A1	2018-02-15	US20180042765
EP3157463	A4	2018-02-21	EP3157463



RU2017101236

A 2018-07-17 RU2017101236

Abstract

(EP3157463)

The present invention relates to a methods and devices for treating uveitis, macular edema associated with uveitis and macular edema associated with retinal vein occlusion in a human subject in need thereof. In certain aspects, devices provided herein include a medicament container defining a lumen configured to contain a medicament, a distal end portion of the medicament container including a coupling portion configured to be removably coupled to a needle assembly, a proximal end portion of the medicament container including a flange and a longitudinal shoulder; a piston assembly including a distal end portion movably disposed within the lumen of the medicament container; and a handle coupled to a proximal end portion of the piston assembly.

Inventors

NORONHA GLENN

BROOKS CHRISTOPHER JOHN

ANDINO RAFAEL VICTOR

PATEL SAMIRKUMAR

WHITE DANIEL

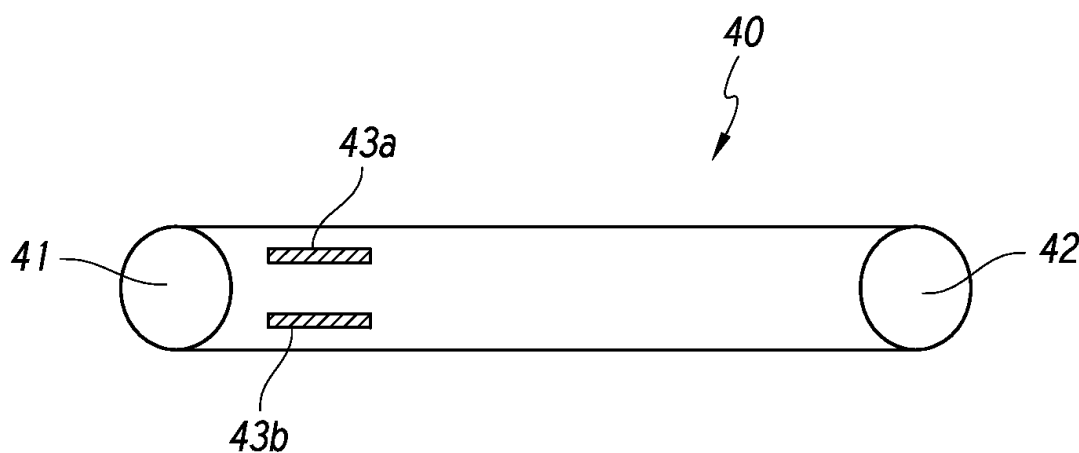
Latest standardized assignees - inventors removed

CLEARSIDE BIOMEDICAL

Family 69/100 - FAMPAT - ©Questel

Title

(WO201385643)

Devices and methods for placing a **shunt** into the intra-scleral space**Images****Publication data including kind & date**

WO2013085643	A1	2013-06-13	WO201385643
US20130150770	A1	2013-06-13	US20130150770
US8852136	B2	2014-10-07	US8852136
US20150045714	A1	2015-02-12	US20150045714
US9271869	B2	2016-03-01	US9271869
US20160135993	A1	2016-05-19	US20160135993
US9883969	B2	2018-02-06	US9883969

**Abstract**

(WO201385643)

The present invention generally relates to intraocular shunts, and in particular, to intraocular shunts configured to form a drainage pathway between the anterior chamber and the intra-scleral space.

Inventors

HORVATH CHRISTOPHER

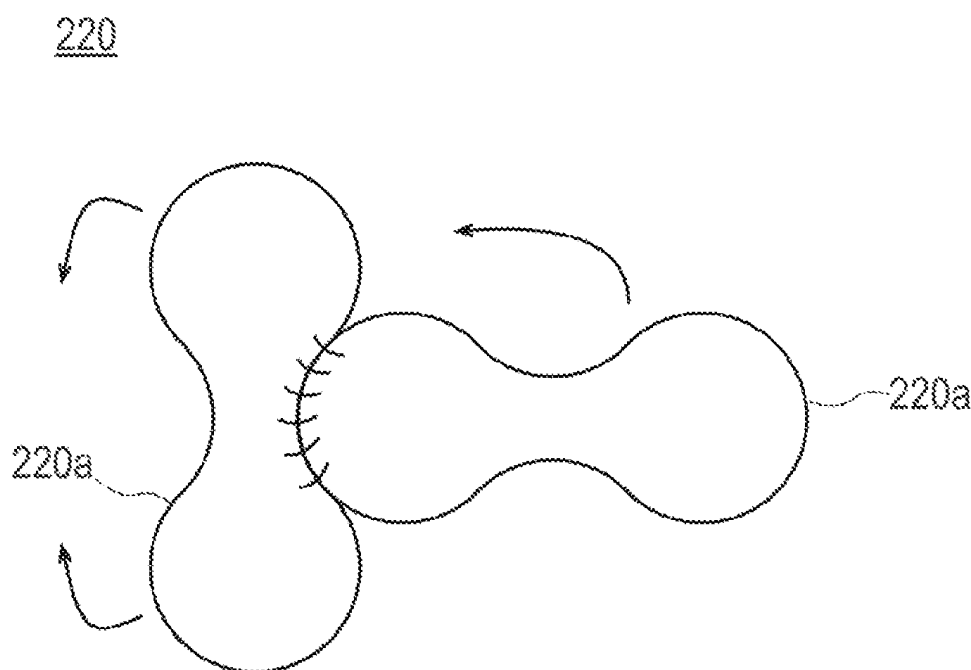
Latest standardized assignees - inventors removed

AQUESYS

Family 70/100 - FAMPAT - ©Questel

Title

(US10143586)

Treatment method and **stent****Images****Publication data including kind & date**

US20170224535	A1	2017-08-10	US20170224535
JP2017140112	A	2017-08-17	JP2017140112
US10143586	B2	2018-12-04	US10143586

**Abstract**

(US10143586)

A treatment method is provided that includes an introduction step of introducing a transparent **stent** into a vitreous body of an eyeball, an expansion step of causing the **stent** to expansively deform inside the vitreous body to bring a retina into contact with a retinal pigment epithelium, and a placement step of placing the **stent** in the vitreous body with the **stent** keeping the retina in contact with the retinal pigment epithelium.

Inventors

MARUYAMA NAOKO

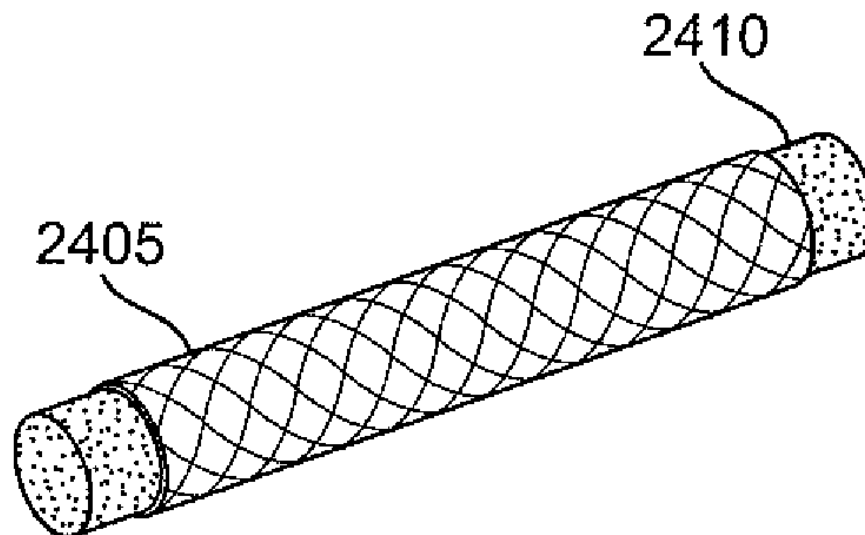
Latest standardized assignees - inventors removed

TERUMO

Family 71/100 - FAMPAT - ©Questel

Title

(EP2173289)

Ocular implant with hydrogel expansion capabilities**Images****Publication data including kind & date**

WO2009012406	A1	2009-01-22	WO200912406				
US20090182421	A1	2009-07-16	US20090182421				
EP2173289	A1	2010-04-14	EP2173289				
JP2010533565	A	2010-10-28	JP2010533565				
EP2173289	A4	2010-11-24	EP2173289				
US20120220917	A1	2012-08-30	US20120220917				
JP5328788	B2	2013-10-30	JP5328788				
US8672870	B2	2014-03-18	US8672870				
US9585789	B2	2017-03-07	US9585789				

Abstract

(EP2173289)

An **ocular** implant includes an elongate member having an internal lumen forming a flow pathway that provides a fluid pathway between the anterior chamber and the suprachoroidaj space of the eye. The implant includes a hydrogel member attached to the elongate member, wherein the hydrogel member is adapted to expand upon implantation of the elongate member in the eye. An attachment attaches the hydrogel member to the elongate member.

Inventors

SILVESTRINI TOM

DE JUAN EUGENE JR

ROSENMAN DAN

Latest standardized assignees - inventors removed

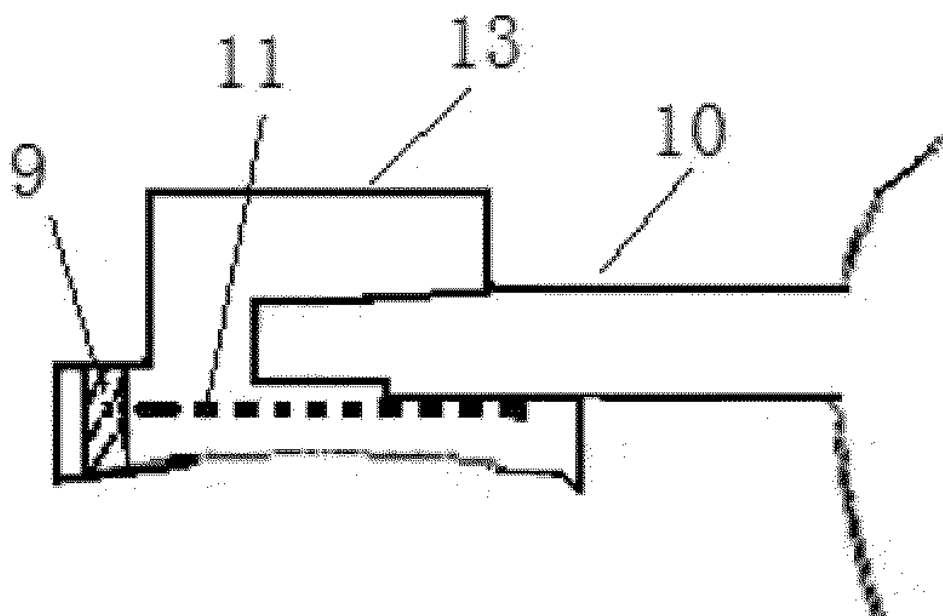
NOVARTIS

Family 72/100 - FAMPAT - ©Questel

Title

(EP2338659)

Manufacturing method of foldable artificial vitreous body and mould thereof

Images**Publication data including kind & date**

CN101386203	A	2009-03-18	CN101386203
WO2010043096	A1	2010-04-22	WO201043096
CA2738837	A1	2010-04-22	CA2738837
AU2009304462	A1	2010-04-22	AU2009304462
US20100286773	A1	2010-11-11	US20100286773
IN4589/CHENP/2010	A	2011-02-04	IN2010CN04589
JP2011515248	A	2011-05-19	JP2011515248
EP2338659	A1	2011-06-29	EP2338659
CN101386203	B	2011-09-14	CN101386203B
AU2009304462	B2	2011-09-29	AU2009304462
US20120296421	A1	2012-11-22	US20120296421
RU2011118920	A	2012-11-27	RU2011118920
US20120301566	A1	2012-11-29	US20120301566
US8419994	B2	2013-04-16	US8419994
EP2338659	A4	2013-07-10	EP2338659
RU2496641	C2	2013-10-27	RU2496641
US8573961	B2	2013-11-05	US8573961
CA2738837	C	2014-10-21	CA2738837
JP5611935	B2	2014-10-22	JP5611935



BRPI0919609	A2	2015-12-08	BR200919609
EP2338659	B1	2017-02-01	EP2338659
ES2617746	T3	2017-06-19	ES2617746
BRPI0919609	B1	2019-02-05	BRPI0919609

**Abstract**

(EP2338659)

A mould for moulding a foldable artificial vitreous body comprises an upper mould (1), a lower mould (2) and a core (3). The core (3) is disposed between the upper mould (1) and the lower mould (2) and is connected with a drainage-tube pin connected with an **injection** channel (4). Heating holes (6) are disposed in the upper mould (1) and/or the lower mould (2). Material is **injected** to the mould and is heated to vulcanize to mould the vitreous body. The vitreous body is mainly composed of a balloon, a drainage tube and a drainage valve, wherein the inlet and the outlet of the drainage tube are respectively connected to the balloon and the drainage valve, and concave structures are provided on the balloon.

Inventors

GAO QIANYING

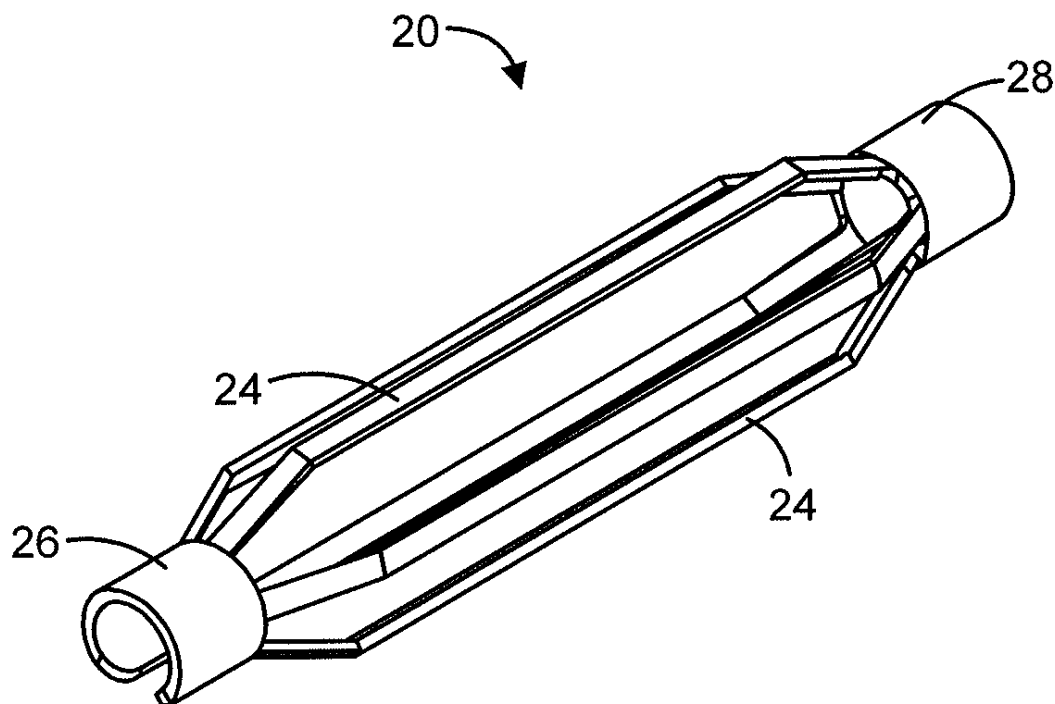
Latest standardized assignees - inventors removed

GUANGZHOU VESBER BIOTECHNOLOGY

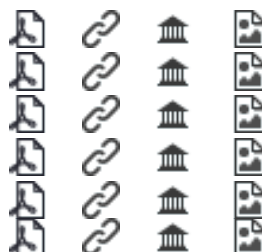
Family 73/100 - FAMPAT - ©Questel

Title

(EP3228286)

Expanding **ocular** impant devices**Images****Publication data including kind & date**

WO2014043698	A2	2014-03-20	WO201443698
US20140081195	A1	2014-03-20	US20140081195
WO2014043698	A3	2015-06-25	WO201443698
EP2895123	A2	2015-07-22	EP2895123
EA201590968	A1	2016-01-29	EA201590968



EP2895123	A4	2016-06-29	EP2895123				
US9480598	B2	2016-11-01	US9480598				
RU2015113823	A	2016-11-10	RU2015113823				
EP2895123	B1	2017-06-07	EP2895123				
ES2633185	T3	2017-09-19	ES2633185				
EP3228286	A1	2017-10-11	EP3228286				
RU2650203	C2	2018-04-11	RU2650203				
EA030047	B1	2018-06-29	EA--30047				

Abstract

(EP3228286)

Disclosed herein are devices and methods related to implants for treating one or more physiological conditions of the eye. Some embodiments disclosed herein include an expandable **ocular** implant for implanting in an eye. The expandable implant can include an implant having an elongate tubular body and an expandable sheath securely adapted to a part of the implant. Some embodiments of the expandable sheath can have at least one expandable feature that can assist the expandable sheath in fanning a compact and an expanded configuration.

Inventors

CLAUSON LUKE

SCHALLER MICHAEL

LARI DAVID

Latest standardized assignees - inventors removed

NOVARTIS

Family 74/100 - FAMPAT - ©Questel

Title

(WO2017181836)

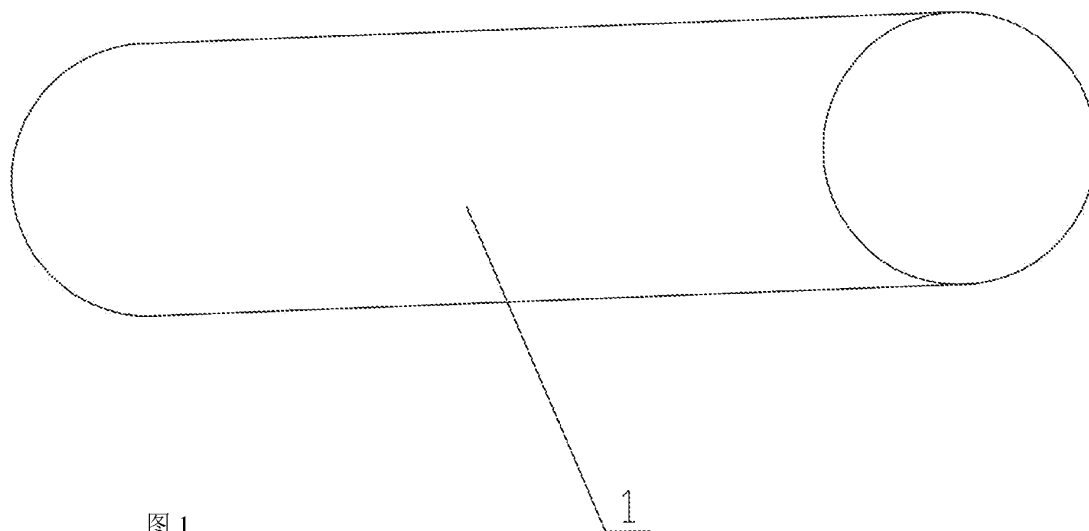
Method for manufacturing inner drainage biomimetic **stent** for glaucoma and use thereof**Images**

图 1

Publication data including kind & date

CN105997341	A	2016-10-12	CN105997341				
WO2017181836	A1	2017-10-26	WO2017181836				
GB201805030	D0	2018-05-09	GB201805030				
GB2558107	A	2018-07-04	GB2558107				

Publication data including kind & date

CA2849371	A1	2013-04-18	CA2849371				
WO2013053367	A1	2013-04-18	WO201353367				
AU2011379044	A1	2014-04-24	AU2011379044				
KR20140078736	A	2014-06-25	KR20140078736				
US20140228825	A1	2014-08-14	US20140228825				
CN103997995	A	2014-08-20	CN103997995				
EP2765966	A1	2014-08-20	EP2765966				
BR112014008483	A1	2014-10-21	BR112014008483				
JP2014531294	A	2014-11-27	JP2014531294				
MX2014004312	A	2015-03-23	MX2014004312				
IN781KON2014	A	2015-10-02	IN2014KN00781				
RU2014116881	A	2015-11-20	RU2014116881				
AU2011379044	B2	2016-02-04	AU2011379044				
AU2016202852	A1	2016-05-26	AU2016202852				
RU2596885	C2	2016-09-10	RU2596885				
MX344107	B	2016-12-05	MX-344107				
KR20170002692	A	2017-01-06	KR20170002692				
KR101693165	B1	2017-01-06	KR101693165				
CN103997995	B	2017-02-22	CN103997995B				
CA2849371	C	2017-03-07	CA2849371				
BR112014008483	A2	2017-04-25	BR112014008483				
CN106667658	A	2017-05-17	CN106667658				
KR101753710	B1	2017-07-04	KR101753710				
AU2016202852	B2	2018-02-22	AU2016202852				

Abstract

(EP2765966)

The laser system for eye surgery comprises the eye -surgical laser apparatus having optical components for providing pulsed focused laser radiation with radiation properties matched to the generation of photodisruptions in human eye tissue and with a control unit for positional control of the radiation focus of the laser radiation, the control unit being designed for executing various control programs that represent various types of incision figure; and a set of interface devices, each of the interface devices including a contact body that is transparent to the laser radiation, with an abutment face for abutment against an eye to be treated, and also a coupling portion for detachable coupling of the interface device onto a counter-coupling portion of the laser apparatus, the interface devices of the set differing by virtue of a differing optical effect on the laser radiation provided in the laser apparatus.

Inventors

GORSCHBOTH CLAUDIA

VOGLER KLAUS

DONITZKY CHRISTOF

Latest standardized assignees - inventors removed

WAVELIGHT

Family 76/100 - FAMPAT - ©Questel

Title

(US9789001)

Ocular implant with therapeutic agents and methods thereof**Images**

BERGHEIM OLAV B

GHARIB MORTEZA

HILL RICHARD A

BURNS THOMAS W

Latest standardized assignees - inventors removed

DOSE MEDICAL

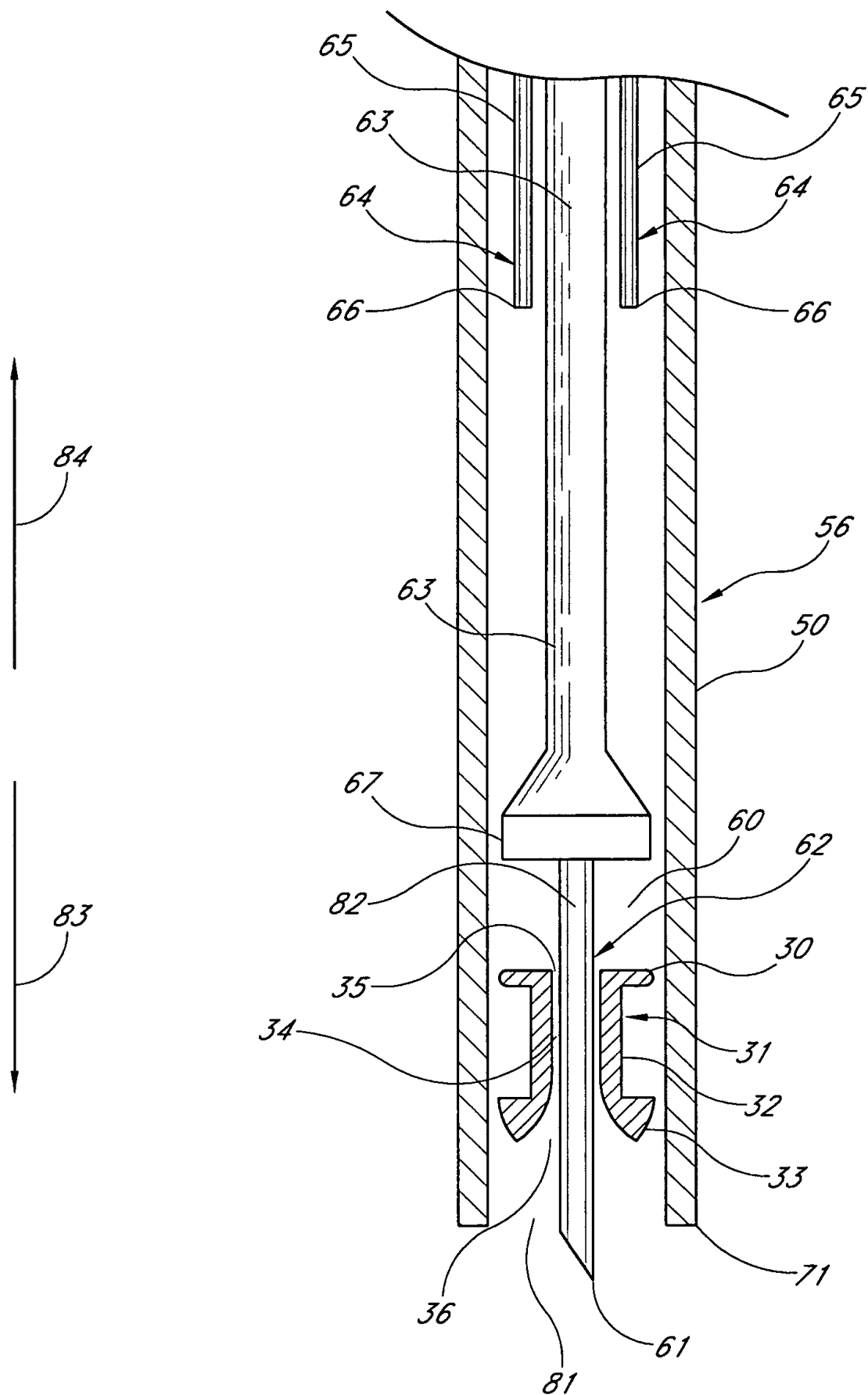
Family 77/100 - FAMPAT - ©Questel

Title

(US9561131)

Implant delivery system and methods thereof for treating **ocular** disorders

Images



Publication data including kind & date

US20040050392	A1	2004-03-18	US20040050392
US20060241749	A1	2006-10-26	US20060241749
US20070010827	A1	2007-01-11	US20070010827
US7331984	B2	2008-02-19	US7331984



US7879079	B2	2011-02-01	US7879079
US9561131	B2	2017-02-07	US9561131
US20170273829	A1	2017-09-28	US20170273829

**Abstract**

(US9561131)

Surgical methods and related medical devices for treating glaucoma are disclosed. The method comprises trabecular bypass surgery, which involves bypassing diseased trabecular meshwork with the use of a **stent** implant. The **stent** implant is inserted into an opening created in the trabecular meshwork by a piercing member that is slidably advanceable through the lumen of the **stent** implant for supporting the implant insertion. The **stent** implant is positioned through the trabecular meshwork so that an inlet end of the **stent** implant is exposed to the anterior chamber of the eye and an outlet end is positioned into fluid collection channels at about an exterior surface of the trabecular meshwork or up to the level of aqueous veins.

Inventors

TU HOSHENG
 HAFFNER DAVID STEVEN
 SMEDLEY GREGORY T
 NIKSCH BARBARA A
 GHARIB MORTEZA
 BURNS THOMAS W
 LINDSTROM RICHARD

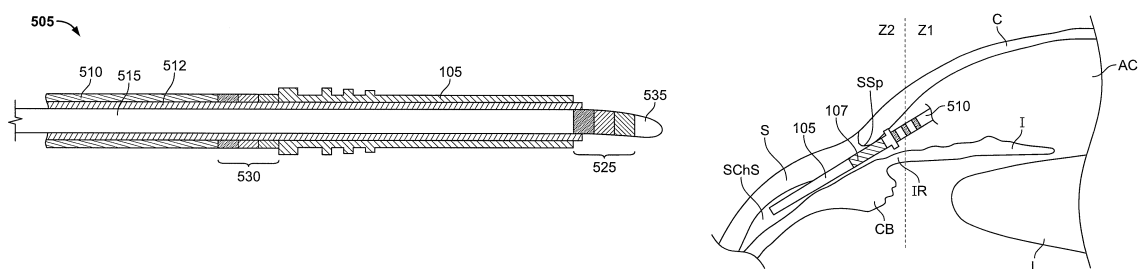
Latest standardized assignees - inventors removed

GLAUKOS

Family 78/100 - FAMPAT - ©Questel

Title

(US9549845)

Ocular implant applier and methods of use**Images****Publication data including kind & date**

US20110112546	A1	2011-05-12	US20110112546
US8535333	B2	2013-09-17	US8535333
US20140012279	A1	2014-01-09	US20140012279
US9549845	B2	2017-01-24	US9549845

**Abstract**

(US9549845)

Described herein is a delivery device and methods for delivering an **ocular** implant into an eye. The delivery device includes a proximal handle portion; a distal delivery portion coupled to a distal end of the handle portion and configured to releasably hold an **ocular** implant and includes a sheath positioned axially over a guidewire; and a metering system configured to

provide visual guidance regarding depth of advancement of an implant positioned on the guidewire into an anatomic region of the eye. Also disclosed is a device and method for loading an implant onto the delivery device.

Inventors

DE JUAN JR EUGENE

JOHN STEVEN

GARCIA JOSE

LILLY RICHARD S

SILVESTRINI THOMAS A

Latest standardized assignees - inventors removed

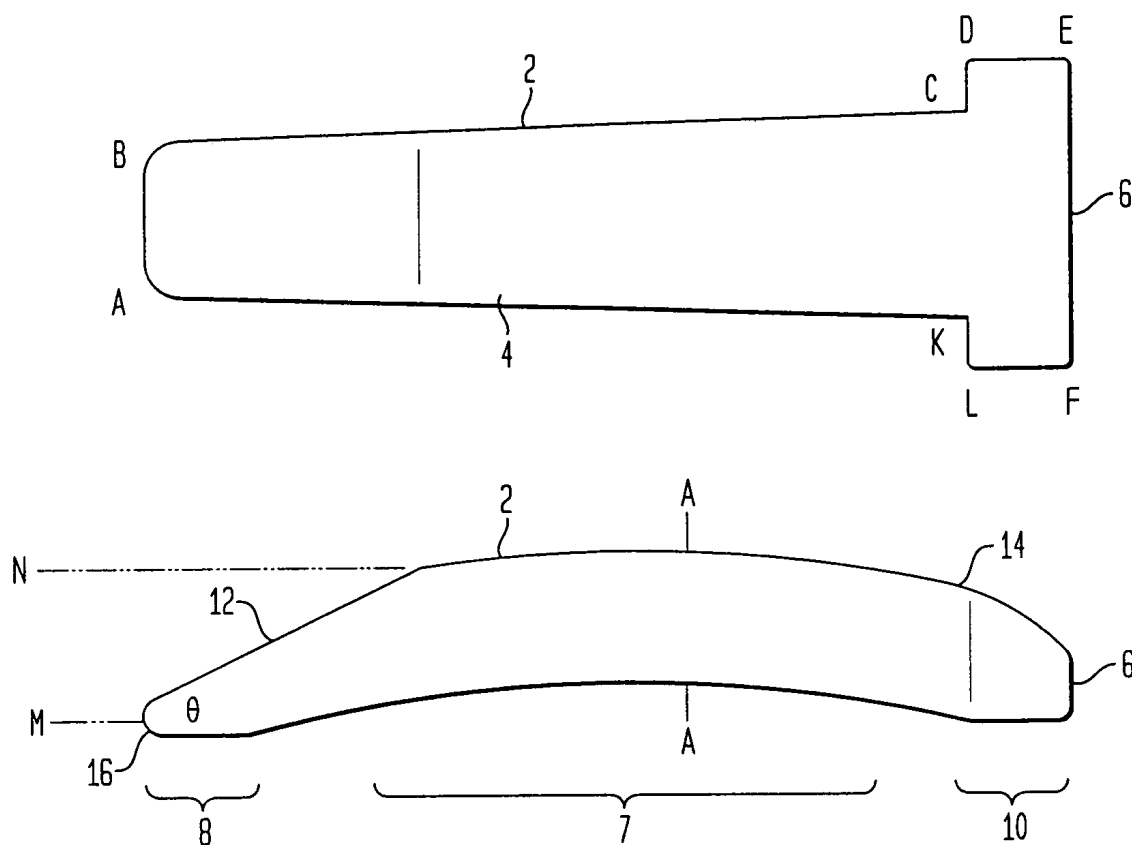
NOVARTIS

Family 79/100 - FAMPAT - ©Questel

Title

(EP1233728)

Ophthalmic device and method of manufacture and use

Images**Publication data including kind & date**

WO200117460	A1	2001-03-15	WO200117460
CA2384253	A1	2001-03-15	CA2384253
AU7339800	A	2001-04-10	AU200073398
EP1233728	A1	2002-08-28	EP1233728
JP2003509090	A	2003-03-11	JP2003509090
US7008396	B1	2006-03-07	US7008396



EP1233728

A4 2006-03-29 EP1233728

Abstract

(EP1233728)

A Torsion resistant scleral-tensioning **stent** (2) useful in the correction of presbyopia and further including chronic **ocular** fluid control utilizing such device.

Inventors

STRAUB HOWARD N

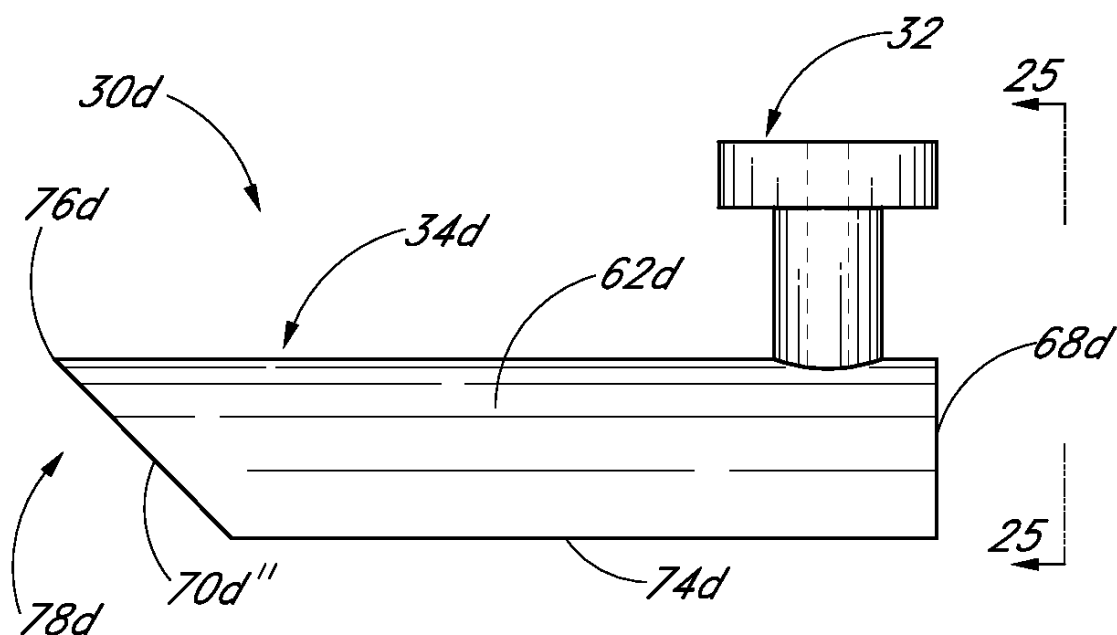
Latest standardized assignees - inventors removed

REFOCUS

Family 80/100 - FAMPAT - ©Questel

Title

(US9155654)

Ocular system with anchoring implant and therapeutic agent**Images****Publication data including kind & date**

US20090036819	A1	2009-02-05	US20090036819
US8118768	B2	2012-02-21	US8118768
US20120253258	A1	2012-10-04	US20120253258
US9155654	B2	2015-10-13	US9155654
US20160100983	A1	2016-04-14	US20160100983

**Abstract**

(US9155654)

Ocular implants, delivery devices and methods for treating **ocular** disorders are disclosed. One method involves inserting an implant on one side of an eye. The implant has an anchor on a distal end portion and an outlet opening that is disposed proximal of the anchor. The implant is advanced across the eye to the other side of the eye. The anchor is inserted into eye tissue on the other side of the eye. A therapeutic agent is eluted using the implant.

Inventors

TU HOSHENG

ARTOF JASON

HAFFNER DAVID STEVEN

SMEDLEY GREGORY T

NIKSCH BARBARA A

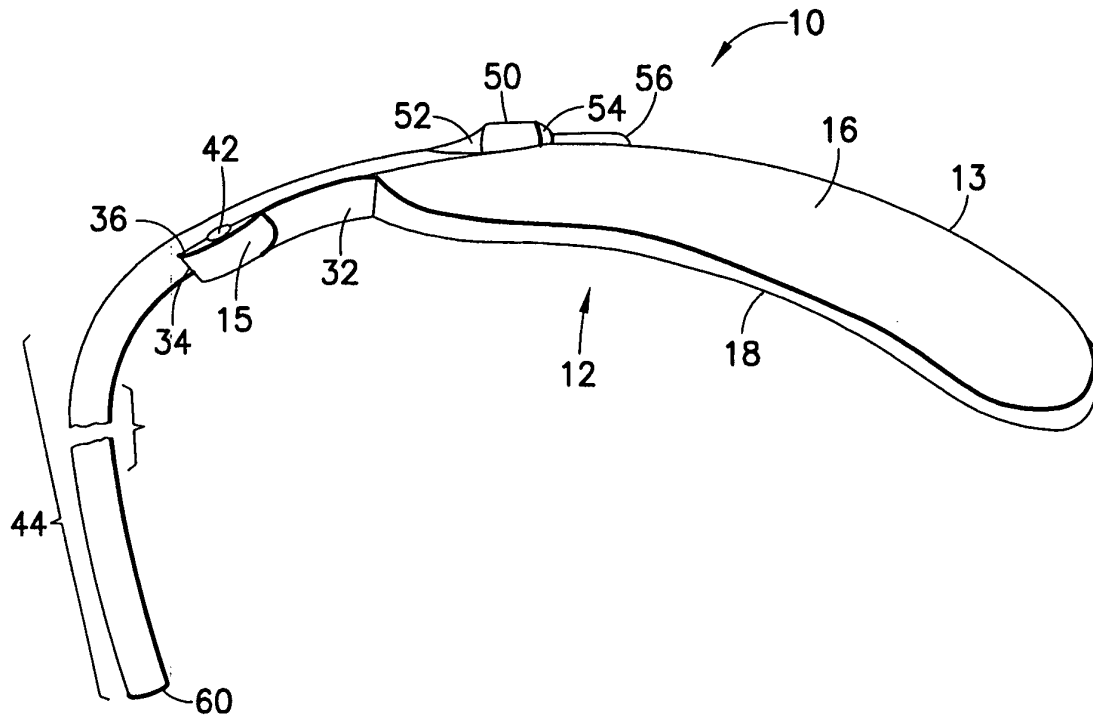
Latest standardized assignees - inventors removed

GLAUKOS

Family 81/100 - FAMPAT - ©Questel

Title

(EP1786489)

Glaucoma **shunt****Images****Publication data including kind & date**

US20050267398	A1	2005-12-01	US20050267398
WO2005118026	A2	2005-12-15	WO2005118026
CA2568207	A1	2005-12-15	CA2568207
AU2005249966	A1	2005-12-15	AU2005249966
WO2005118026	A3	2006-07-13	WO2005118026
EP1786489	A2	2007-05-23	EP1786489

**Abstract**

(EP1786489)

A glaucoma **shunt** includes a plate having filtration and fixation portions. In some embodiments the filtration portion includes a surface provided with stiffening ribs which increase rigidity and an upper surface provided with a ridge. The fixation portion extends anteriorly to facilitate access thereto. A drainage tube is recessed within the plate and extends through the ridge to a central portion of the filtration portion. By emptying the tube at the central portion of the filtration portion, the tube outlet is distanced from perimetric scar tissue which can otherwise obstruct the tube outlet. The ridge keeps tissue over the plate spaced from the outlet of the tube to further facilitate drainage.

Inventors

PROTOPSALTIS DIMITRI

PRESCOTT ANTHONY D

LINDSEY EDWARD C

Latest standardized assignees - inventors removed

CLARITY

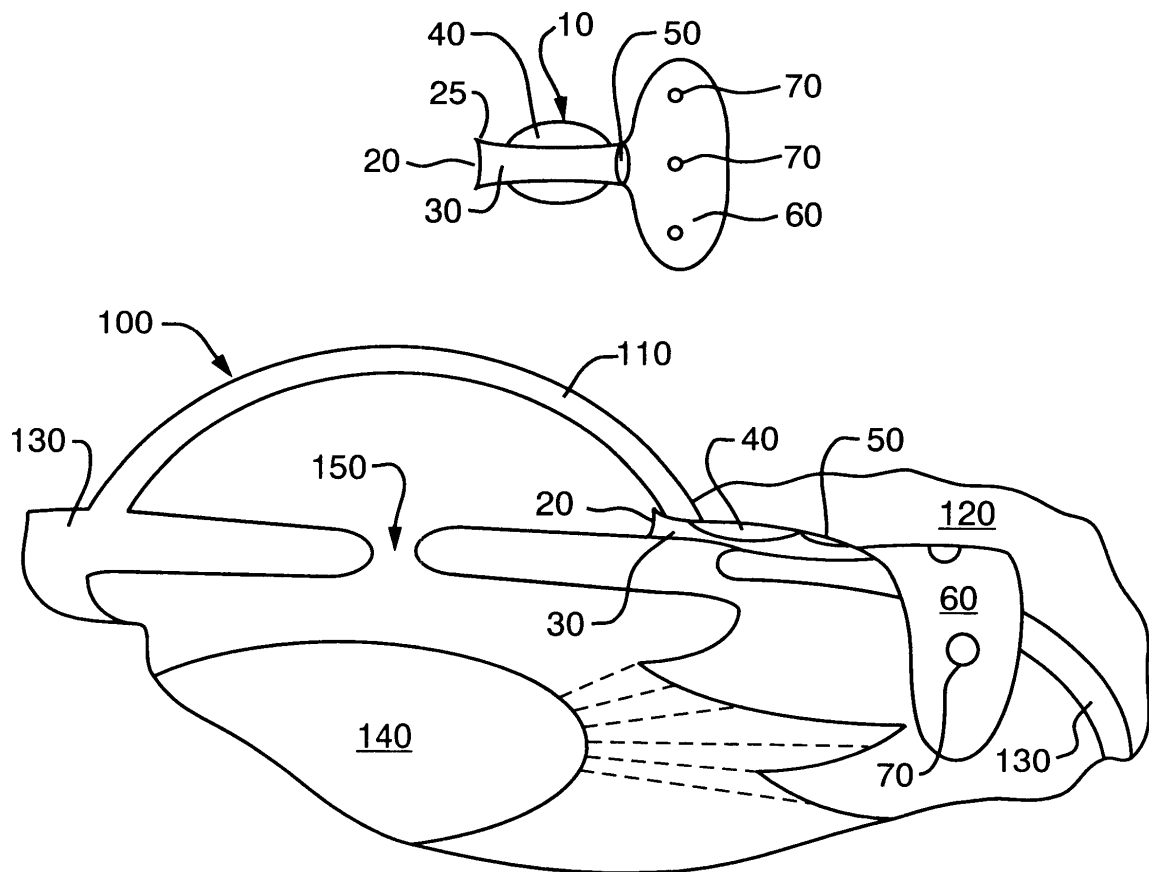
Family 82/100 - FAMPAT - ©Questel

Title

(US6471666)

Injectable glaucoma device

Images



Publication data including kind & date

US6471666

B1 2002-10-29

US6471666



US20020193725

A1 2002-12-19

US20020193725

Abstract

(US6471666)

A glaucoma device includes an aqueous tube **shunt** implant with a foldable reservoir plate for **injecting** below the conjunctiva of a patient's eye via a hollow cannula. The device has an internal ostium with a flared lip at one end of a shaft having a flattened wing extending to the sides. A foldable plate and reservoir are provided at the at the other end of the shaft and connected to an external ostium of the shaft. The flattened wing presents a flat surface to the overlying conjunctiva and helps position the device when used. The device is preferably made of silicone or acrylic so that the entire implant is foldable and may be rolled up for insertion via the cannula. Other improvements and a method for implanting the device are disclosed as well.

Inventors

ODRICH STEVEN A

Latest standardized assignees - inventors removed

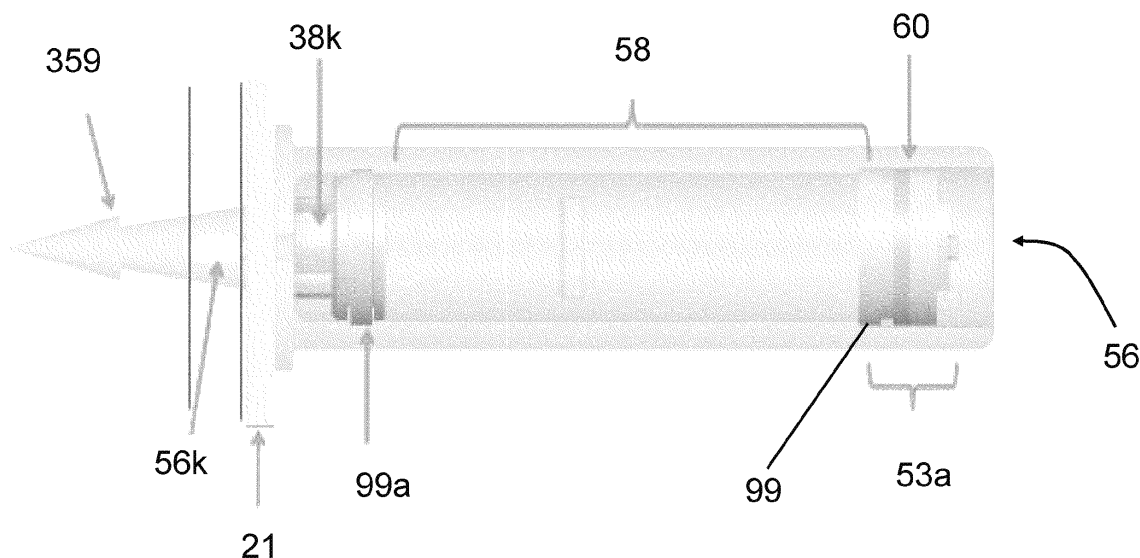
NOVARTIS

Family 83/100 - FAMPAT - ©Questel

Title

(EP3366264)

Implants with controlled drug delivery features

Images**Publication data including kind & date**

CA2901476	A1	2014-09-25	CA2901476
WO2014150292	A1	2014-09-25	WO2014150292
AU2014237278	A1	2015-09-10	AU2014237278
EP2967984	A1	2016-01-20	EP2967984
US20160045363	A1	2016-02-18	US20160045363
JP2016511108	A	2016-04-14	JP2016511108
US9603738	B2	2017-03-28	US9603738
US20180021170	A1	2018-01-25	US20180021170
EP2967984	B1	2018-01-31	EP2967984
US20180177633	A1	2018-06-28	US20180177633
EP3366264	A1	2018-08-29	EP3366264
AU2014237278	B2	2018-12-20	AU2014237278

**Abstract**

(EP3366264)

The present application relates to a drug delivery **ocular** implant (53) comprising an outer shell (54) having a proximal end (52), a distal end (50), said outer shell being shaped to define an interior space (58) at least a first therapeutic agent (62) positioned within said interior space (58), and a crimp cap (53a, 54a) sealed to the proximal end (52) of said outer shell (54). According to the invention, said crimp cap (53a, 54a) comprises at least one aperture, a membrane (60, 60a) permeable to said at least a first therapeutic agent positioned between said crimp cap (53a, 54a) and said proximal end (52) of said outer shell (54), wherein said membrane (60, 60a) occludes said at least one aperture, thereby allowing elution of said at least a first therapeutic agent (62) to occur only through said membrane (60, 60a), and a retention protrusion (359) on the distal end (50) of said outer shell (54), wherein said retention protrusion (359) is configured to anchor the **ocular** implant (53) at a target tissue site in the eye. At least one fluid inflow pathway (38k) and one fluid outflow pathway (56k) are positioned adjacent the distal end (50) of said outer shell (54), and said at least one fluid outflow pathway (56k) allows **ocular** fluid to be directed through the implant via at least one fluid inflow pathway (38k) to deliver **ocular** fluid from an anterior chamber (20) to a physiological outflow space (22).

Inventors

HAFFNER DAVID

BURNS THOMAS W

HEITZMANN HAROLD

CURRY KENNETH MARTIN

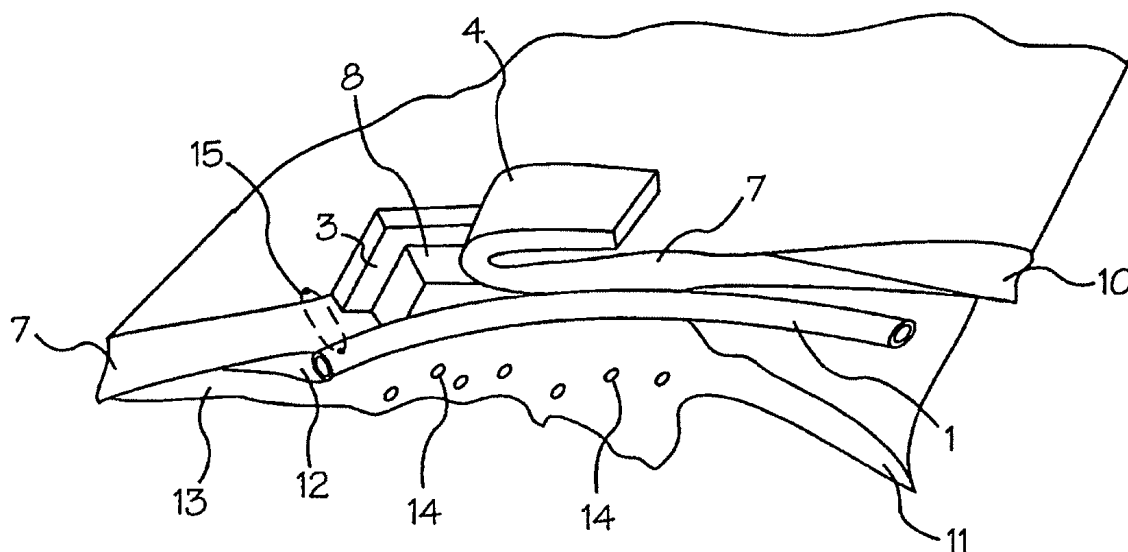
Latest standardized assignees - inventors removed

DOSE MEDICAL

Family 84/100 - FAMPAT - ©Questel

Title

(US8444588)

Internal **shunt** and method for treating glaucoma**Images****Publication data including kind & date**

US20040225250	A1	2004-11-11	US20040225250
US20070149915	A1	2007-06-28	US20070149915
US20100152641	A1	2010-06-17	US20100152641
US8444588	B2	2013-05-21	US8444588

**Abstract**

(US8444588)

A surgical technique and device wherein an indwelling tube is placed in the eye of a patient having glaucoma. The tube diverts aqueous humor from the anterior chamber to the suprachoroidal space from which it is removed by blood flowing in the choroidal and uveal tissues. This decreases the intraocular pressure.

Inventors

YABLONSKI MICHAEL

Latest standardized assignees - inventors removed

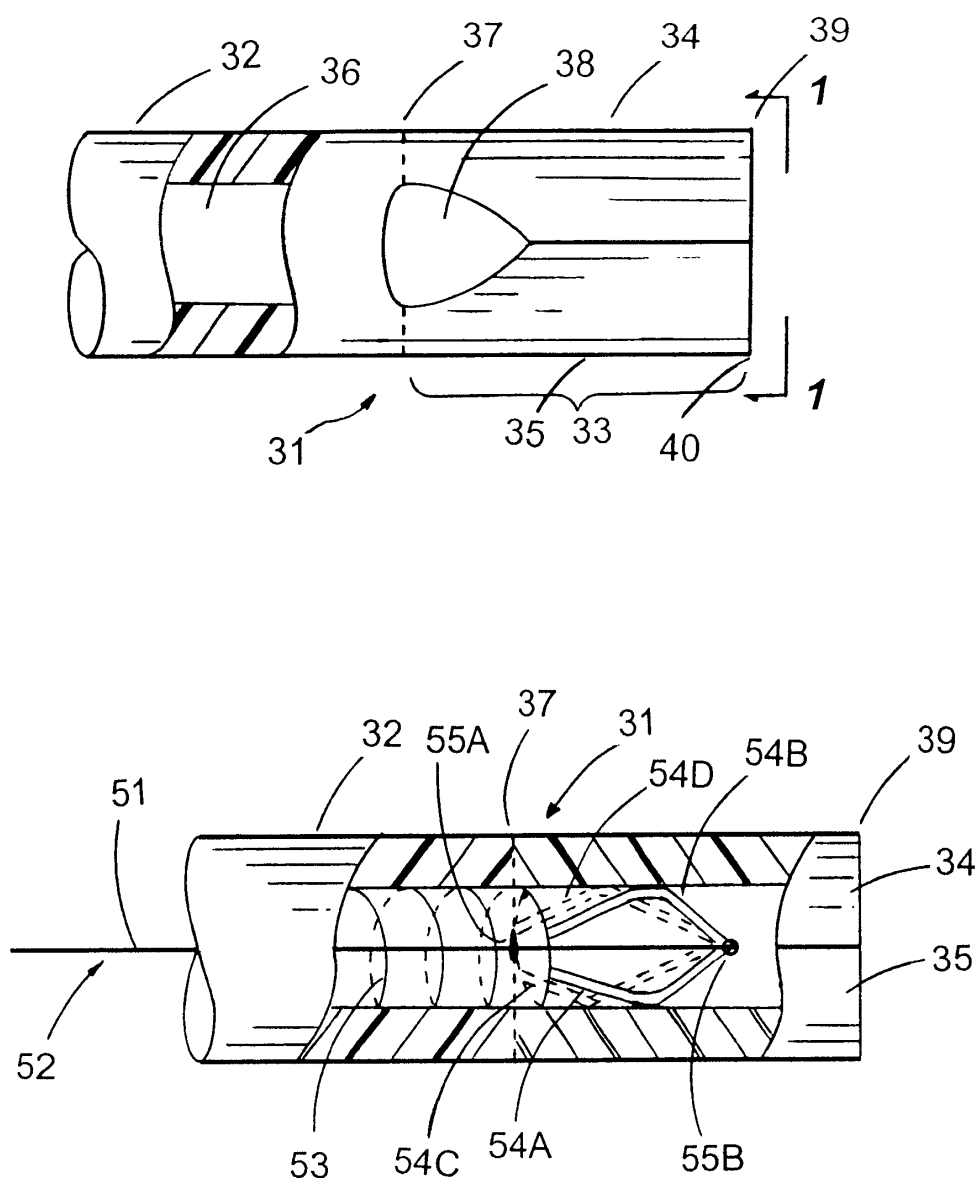
NOVARTIS

Family 85/100 - FAMPAT - ©Questel

Title

(WO200287418)

Bifurcatable trabecular **shunt** for glaucoma treatment**Images**

**Publication data including kind & date**

WO02087418	A2	2002-11-07	WO200287418
US20020165478	A1	2002-11-07	US20020165478
AU2002305278	A1	2002-11-11	AU2002305278
WO02087418	A3	2003-11-27	WO200287418
US6666841	B2	2003-12-23	US6666841
US6981958	B1	2006-01-03	US6981958

**Abstract**

(WO200287418)

A Trabecular **Shunt** and Methods for treating glaucoma are disclosed. The Method comprises placing a Trabecular **shunt** through diseased trabecular meshwork, between the anterior chamber and Schlemm's canal. The Trabecular **Shunt** includes a hollow, elongated tubular element having an inlet section (32) and an outlet section (33). The outlet section includes two bifurcated elements (34, 35) adapted to be positioned and stabilized inside Schlemm's canal.

Inventors

GHARIB MORTEZA

TU HOSHENG

BERGHEIM OLAV

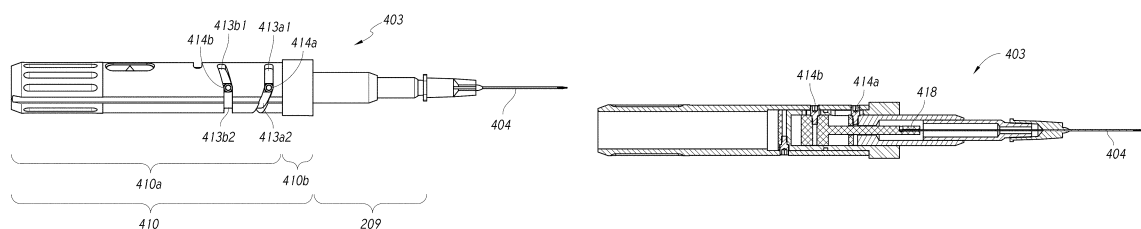
Latest standardized assignees - inventors removed

GLAUKOS

Family 86/100 - FAMPAT - ©Questel

Title

(US20160256320)

Intraocular **shunt** placement in the suprachoroidal space**Images****Publication data including kind & date**

US20150011926	A1	2015-01-08	US20150011926
US20160256319	A1	2016-09-08	US20160256319
US20160256320	A1	2016-09-08	US20160256320
US20160256318	A1	2016-09-08	US20160256318
US20160256317	A1	2016-09-08	US20160256317
US10085884	B2	2018-10-02	US10085884

**Abstract**

(US20160256320)

Glaucoma can be treated by implanting an intraocular **shunt** into the eye. Such procedures can employ various deployment devices, shunts, and implantation techniques. A method for treating glaucoma can include **injecting** a drug into the eye and positioning an intraocular **shunt** in eye tissue such that the **shunt** conducts fluid from the anterior chamber to the suprachoroidal space.

Inventors

HORVATH CHRISTOPHER

BACHE RONALD D

ROMODA LASZLO O

GRABNER GUENTHER

REITSAMER HERBERT A

SAMPLES JOHN R

Latest standardized assignees - inventors removed

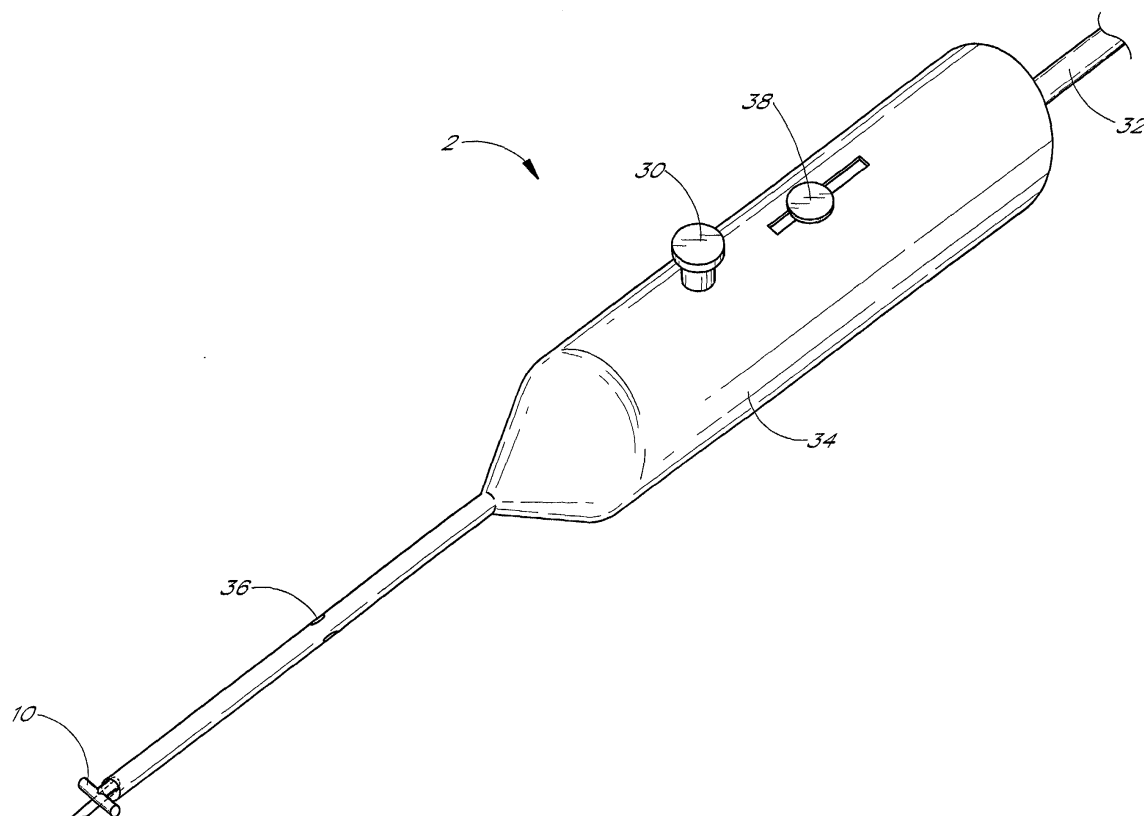
AQUESYS

Family 87/100 - FAMPAT - ©Questel

Title

(EP1367968)

Applicator and methods for placing a trabecular **shunt** for glaucoma treatment**Images**



Publication data including kind & date

US20020133168	A1	2002-09-19	US20020133168
WO02074052	A2	2002-09-26	WO200274052
CA2540761	A1	2002-09-26	CA2540761
WO02074052	A3	2003-05-22	WO200274052
EP1367968	A2	2003-12-10	EP1367968
JP2004525695	A	2004-08-26	JP2004525695
EP1367968	A4	2006-12-13	EP1367968



Abstract

(EP1367968)

Disclosed are an apparatus (2) and method for placing a fluid **shunt** (10), for the treatment of glaucoma, from inside the anterior chamber of an eye, through the trabecular meshwork, and into Schlemm's canal. The apparatus (2) can include a handpiece (14) having a distal end and a proximal end, an elongated tip connected to the distal end of the endpiece (14), the elongated tip having a distal portion and being configured to be placed through a corneal incision and into an anterior chamber of the eye; a holder (2, 20, 24) attached to the trabecular **shunt** (10); and an actuator (30, 32, 38) on the handpiece that actuates the holder (8, 20, 24) to release the inlet section of the trabecular **shunt** (10) from the holder.

Inventors

SMEDLEY GREGORY T

GHARIB MORTEZA

TU HOSHENG

Latest standardized assignees - inventors removed

GLAUKOS

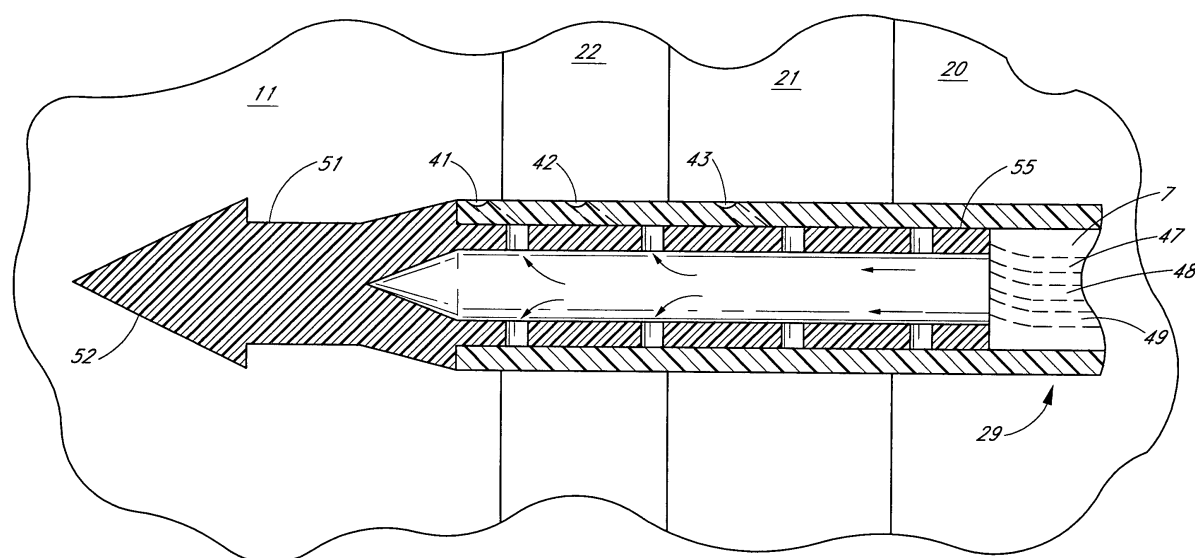
Family 88/100 - FAMPAT - ©Questel

Title

(US8007459)

Ocular implant with anchoring mechanism and multiple outlets

Images



Publication data including kind & date

US7488303	B1	2009-02-10	US7488303
US20100087774	A1	2010-04-08	US20100087774
US8007459	B2	2011-08-30	US8007459
US20120078158	A1	2012-03-29	US20120078158
US20130018295	A1	2013-01-17	US20130018295



Abstract

(US8007459)

Devices and methods for treating **ocular** disorders are disclosed. One **ocular** implant, has a substantially straight, rigid, elongate body. The body has a self-trephinating distal portion that narrows toward a distal end, and at least one inlet that communicates with at least one inner lumen that communicates with a plurality of outlets. The lumen has a sufficient length to extend from an anterior chamber of an eye to a physiologic outflow pathway. An anchor member extends from the implant.

Inventors

HAFFNER DAVID S
SMEDLEY GREGORY T
BURNS THOMAS W
TU HOSHENG

Latest standardized assignees - inventors removed

GLAUKOS

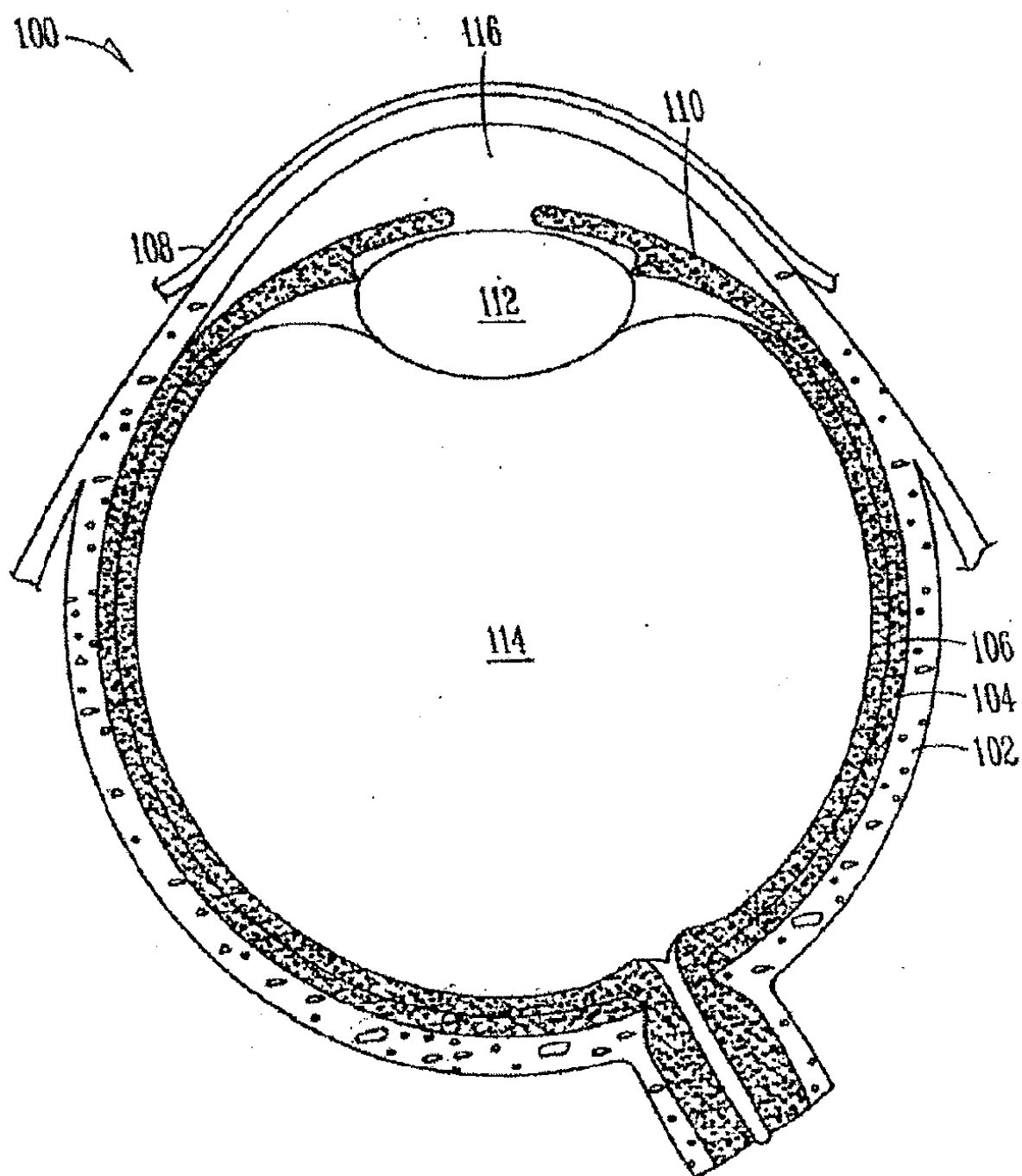
Family 89/100 - FAMPAT - ©Questel

Title

(EP2844224)

Drug delivery system for treating open angle glaucoma and **ocular** hypertension

Images

**FIG. 1****Publication data including kind & date**

CA2872338	A1	2013-11-07	CA2872338
WO2013164671	A1	2013-11-07	WO2013164671
EP2844224	A1	2015-03-11	EP2844224



JP2015520628	A	2015-07-23	JP2015520628
IN9713DEN2014	A	2015-07-31	IN2014DN09713
EP2844224	A4	2016-02-24	EP2844224
CN105473130	A	2016-04-06	CN105473130
HK1222810	A1	2017-07-14	HK1222810
JP6213560	B2	2017-10-18	JP6213560
EP2844224	B1	2018-04-11	EP2844224

**Abstract**

(EP2844224)

A method of decreasing intraocular pressure (IOP) in an eye of a patient in need thereof includes implanting a first lacrimal implant through an upper punctum and into an upper lacrimal canaliculus of the eye of the patient. The method may further comprise implanting a second lacrimal implant through a lower punctum and into a lower lacrimal canaliculus of the eye of the patient, and releasing, on a sustained basis a therapeutically effective amount of an intraocular pressure -reducing therapeutic agent.

Inventors

UTKHEDE DEEPANK

CADDEN SUZANNE

HAO YONG

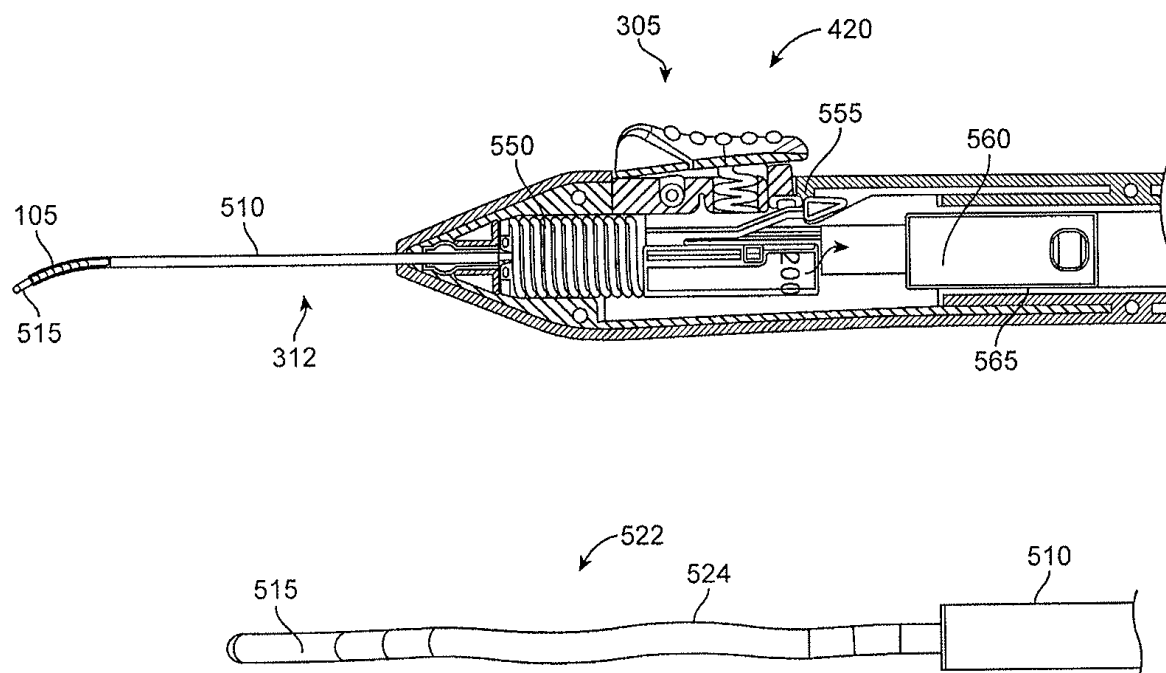
Latest standardized assignees - inventors removed

MATI THERAPEUTICS

Family 90/100 - FAMPAT - ©Questel

Title

(US9907697)

Delivery system for **ocular** implant**Images****Publication data including kind & date**

US20130281908	A1	2013-10-24	US20130281908
US20140155805	A1	2014-06-05	US20140155805
US9155656	B2	2015-10-13	US9155656
US9241832	B2	2016-01-26	US9241832



US20160135992	A1	2016-05-19	US20160135992
US9907697	B2	2018-03-06	US9907697
US20180256397	A1	2018-09-13	US20180256397

**Abstract**

(US9907697)

A delivery system is disclosed which can be used to deliver an **ocular** implant into a target location within the eye via an ab interno procedure. In some embodiments, the implant can provide fluid communication between the anterior chamber and the suprachoroidal or supraciliary space while in an implanted state. The delivery system can include a proximal handle component and a distal delivery component. In addition, the proximal handle component can include an actuator to control the release of the implant from the delivery component into the target location in the eye.

Inventors

SCHALLER MICHAEL

LARI DAVID

CLAUSON LUKE

WHITE NATHAN

LILLY RICHARD S

NEWELL MATTHEW

AHMED IQBAL IKE K

Latest standardized assignees - inventors removed

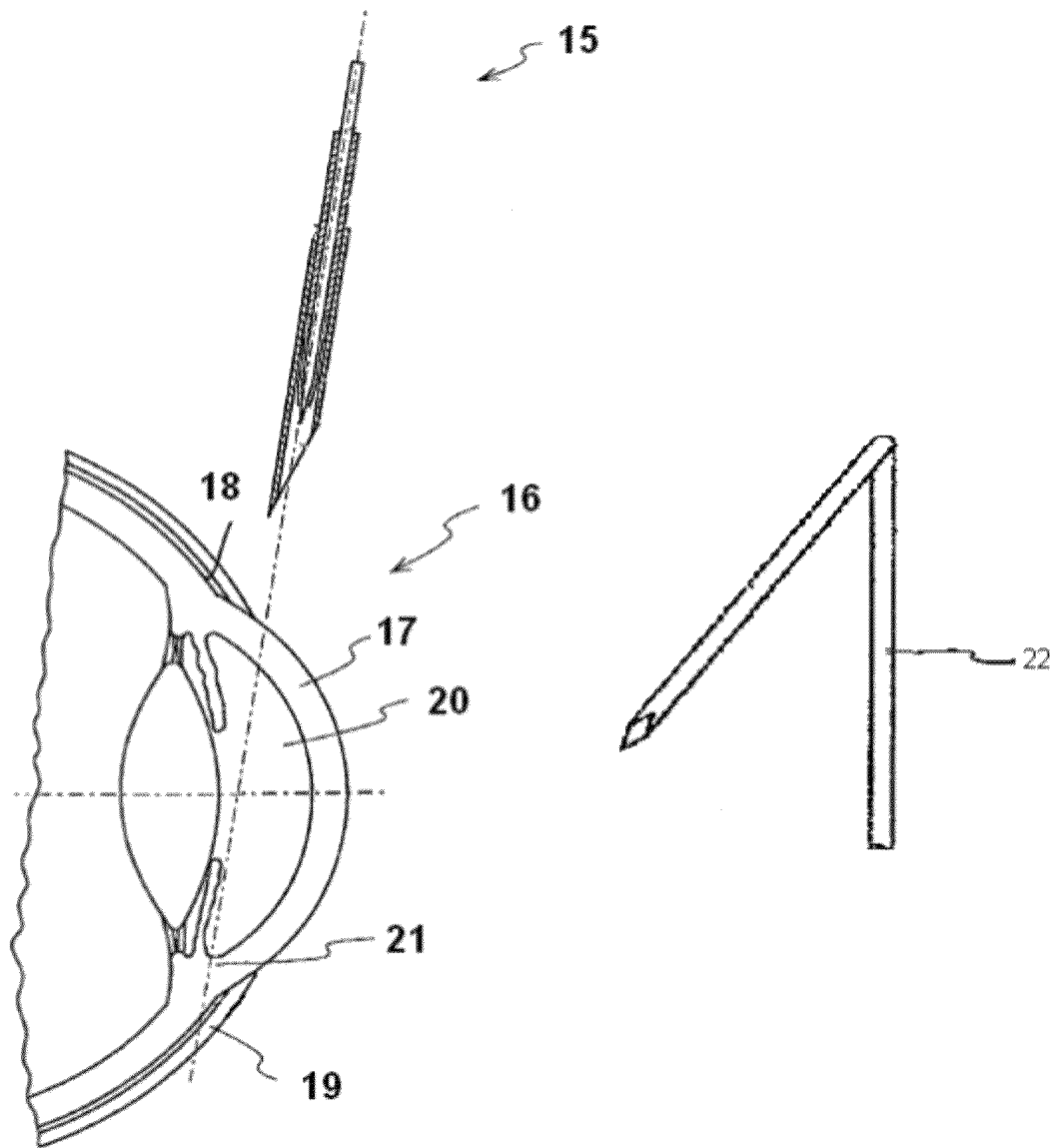
NOVARTIS

Family 91/100 - FAMPAT - ©Questel

Title

(US9393153)

Methods for intraocular **shunt** placement**Images**



Publication data including kind & date

US20120123438	A1	2012-05-17	US20120123438
US8852256	B2	2014-10-07	US8852256
US20150057591	A1	2015-02-26	US20150057591
US9393153	B2	2016-07-19	US9393153
US20160250071	A1	2016-09-01	US20160250071



Abstract

(US9393153)

Intraocular pressure can be reduced by insertion of an intraocular **shunt** in the eye such that it forms a drainage pathway between the anterior chamber and a region of lower pressure. A hollow shaft can be advanced through the anterior chamber with the hollow shaft (a) having a beveled tip at a distal end of the hollow shaft and (b) holding an intraocular **shunt** with a proximal end of the **shunt** within the hollow shaft. The sclera can be penetrated with the hollow shaft. A beveled surface of the beveled tip can be oriented such that the beveled surface faces toward the Tenon's capsule when the beveled tip passes out of the sclera. After the beveled tip passes out of the sclera, at least a portion of the **shunt** can be advanced from the hollow shaft.

Inventors

HORVATH CHRISTOPHER

ROMODA LASZLO O

LEWIS RICHARD A

Latest standardized assignees - inventors removed

AQUESYS

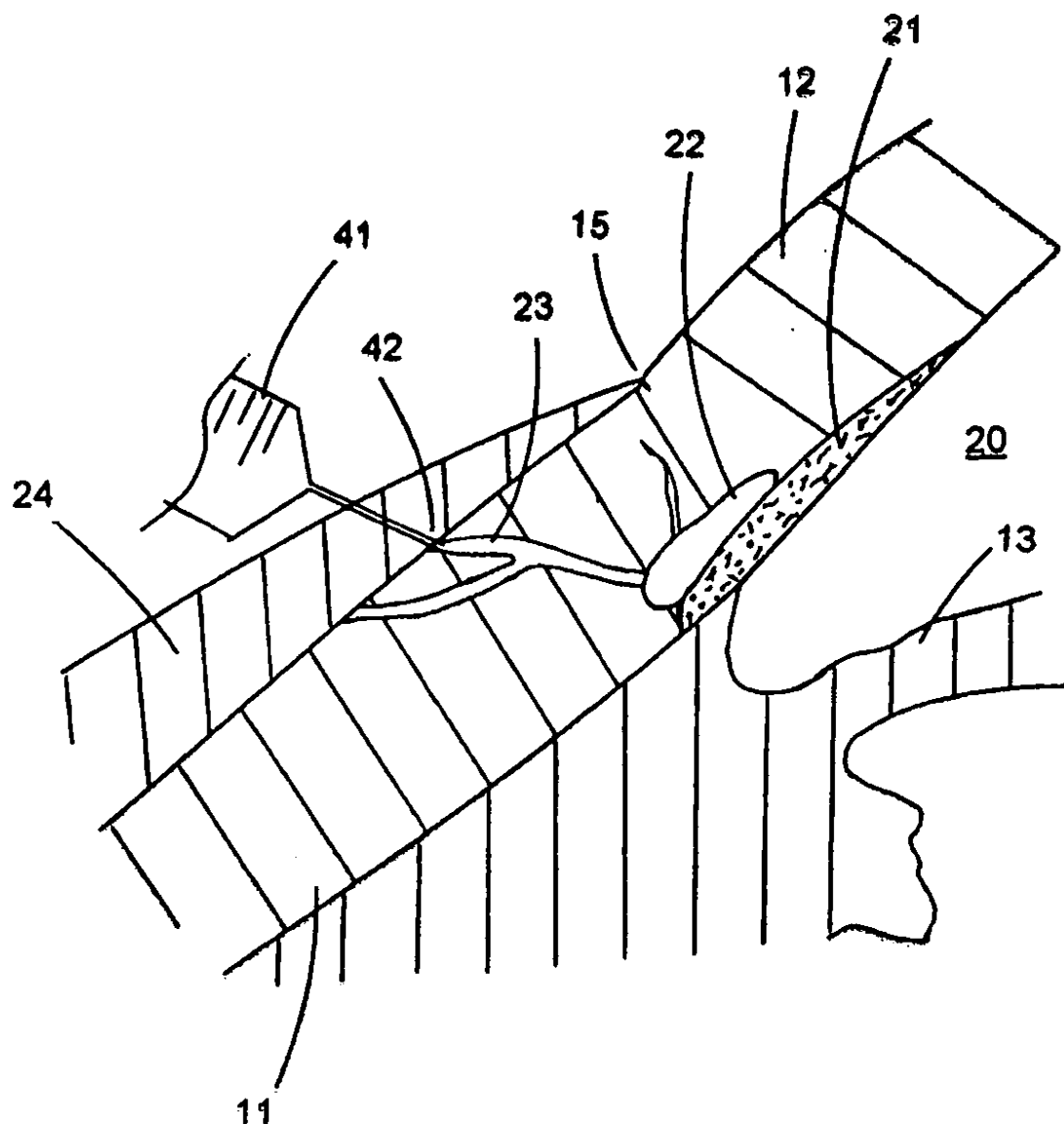
Family 92/100 - FAMPAT - ©Questel

Title

(US20060032507)

Contrast-enhanced **ocular** imaging

Images



Publication data including kind & date

[US20060032507](#)

A1 2006-02-16

US20060032507



Abstract

(US20060032507)

The invention relates generally to medical devices and methods for **ocular** imaging and, more particularly, to devices and methods for increasing contrast in an eye in which an imaging contrast agent is introduced into an aqueous humor outflow channel. For example, in one embodiment, the outflow channel may be Schlemm's Canal, or in another embodiment, the outflow channel may be an episcleral vein. Also disclosed are methods for implanting a trabecular **stent** via an ab externo procedure with assistance of enhanced magnetic resonance imaging to restore a part or all of the normal physiological function of directing aqueous outflow for maintaining a normal intraocular pressure in an eye.

Inventors

TU HOSHENG

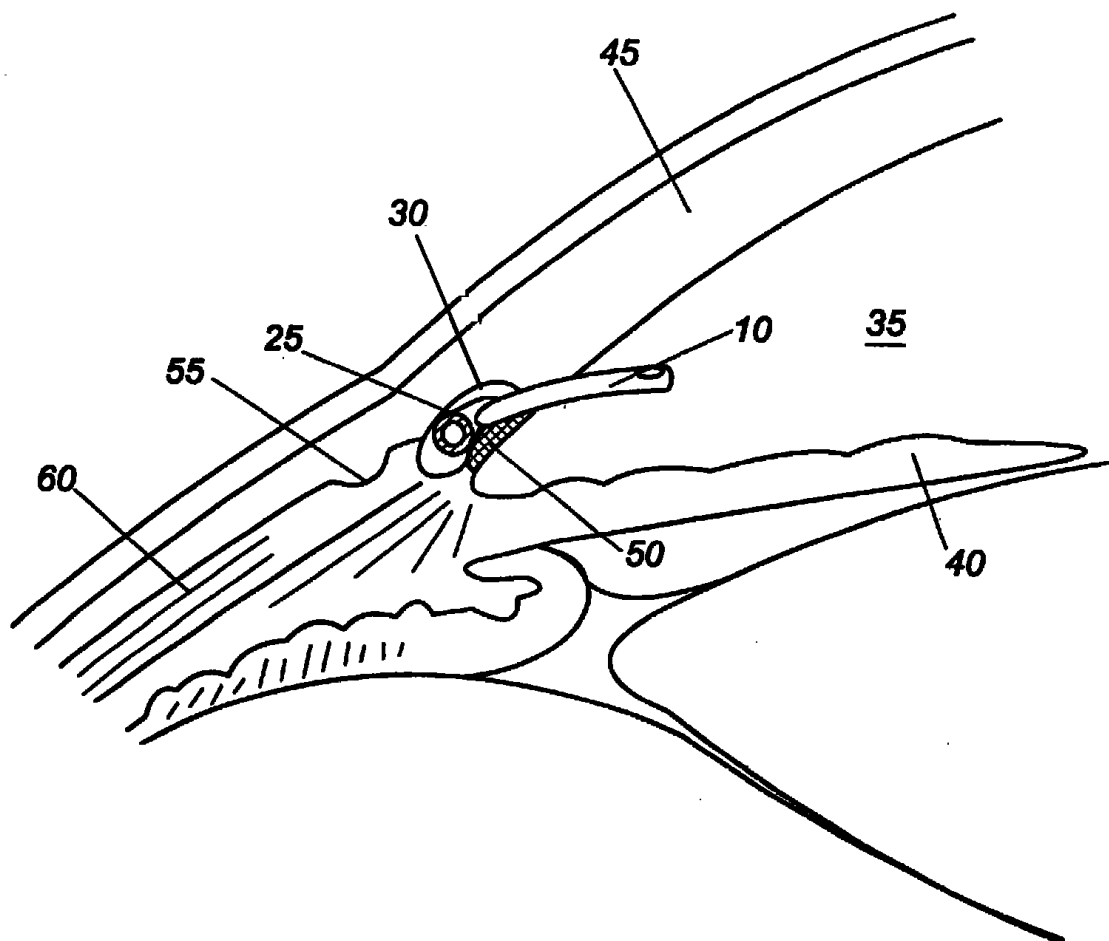
Latest standardized assignees - inventors removed

GLAUKOS

Family 93/100 - FAMPAT - ©Questel

Title

(EP2012724)

Dual drainage pathway **shunt** device and method for treating glaucoma**Images****Publication data including kind & date**

WO2007130393	A2	2007-11-15	WO2007130393
CA2650726	A1	2007-11-15	CA2650726
AU2007248710	A1	2007-11-15	AU2007248710
US20070293807	A1	2007-12-20	US20070293807
WO2007130393	A3	2008-01-17	WO2007130393
EP2012724	A2	2009-01-14	EP2012724
JP2009535162	A	2009-10-01	JP2009535162
US20100234791	A1	2010-09-16	US20100234791

**Abstract**

(EP2012724)

A **shunt** is provided for the flow of aqueous humor from the anterior chamber of the eye to Schlemm's canal and to other anatomical spaces of the eye. The **shunt** comprises at least one lumen and optionally has at least one anchor extending from a proximal portion of the **shunt** to assist in placement and anchoring of the device in the correct anatomic position.

Inventors

LYNCH MARY G
BROWN REAY H
SMEETS GUIDO

Latest standardized assignees - inventors removed

GLAUKOS

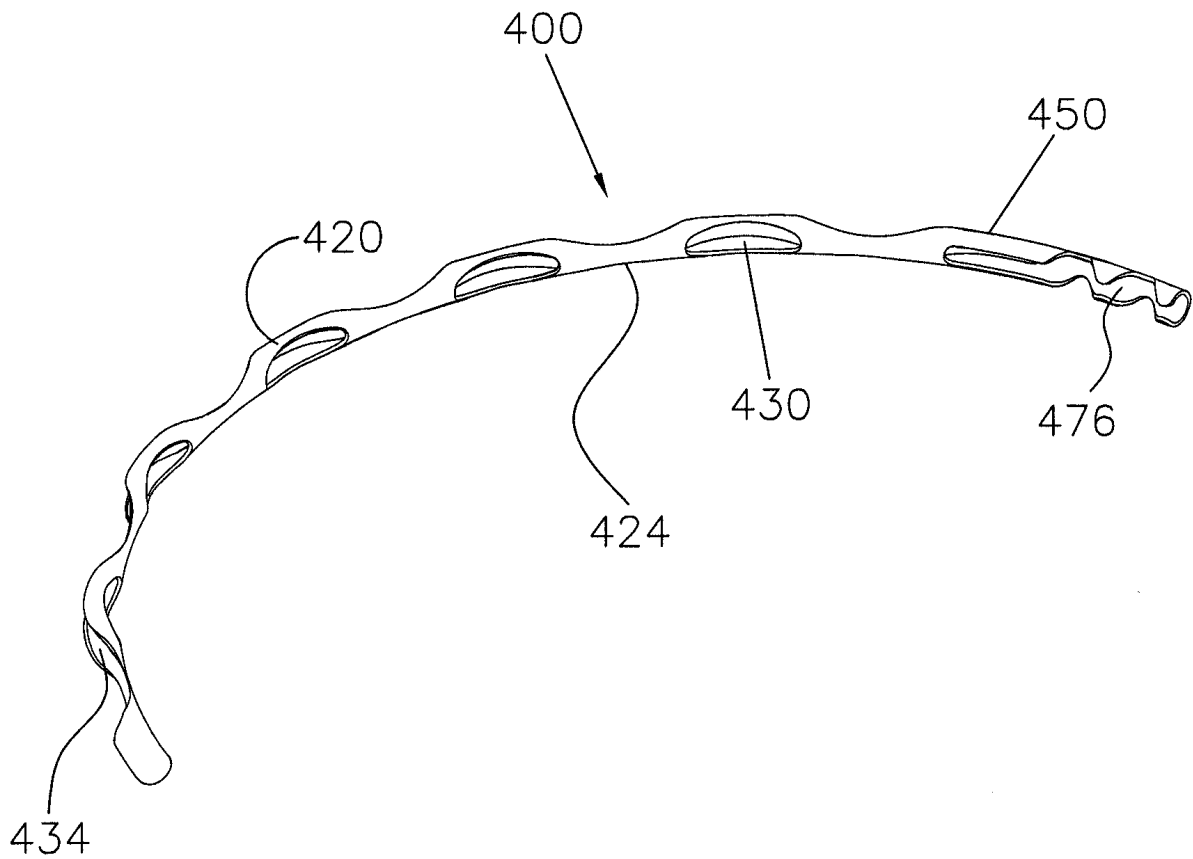
Family 94/100 - FAMPAT - ©Questel

Title

(US8961447)

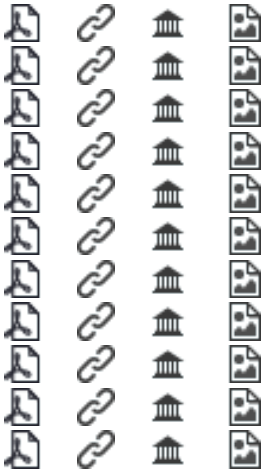
Glaucoma treatment method

Images



Publication data including kind & date

US20090082860	A1	2009-03-26	US20090082860
US20090082862	A1	2009-03-26	US20090082862
US20090082863	A1	2009-03-26	US20090082863
US7740604	B2	2010-06-22	US7740604
US20100222733	A1	2010-09-02	US20100222733
US20120179087	A1	2012-07-12	US20120179087
US8282592	B2	2012-10-09	US8282592
US8414518	B2	2013-04-09	US8414518
US20130172804	A1	2013-07-04	US20130172804
US8734377	B2	2014-05-27	US8734377
US8961447	B2	2015-02-24	US8961447



Abstract

(US8961447)

An **ocular** implant adapted to reside at least partially in a portion of Schlemm's canal of an eye. In some embodiments the implant has a body extending in a curved volume whose longitudinal axis forms an arc of a circle, and a plurality of open

areas and strut areas formed in the body, the open areas extending over more than 50% of a surface defining the curved volume, the strut areas surrounding the open areas, the body having a diameter of between 0.005 inches and 0.04 inches. The invention also provides a method of treating glaucoma including the steps of supporting tissue forming Schlemm's canal in an eye with an implant extending at least partially in the canal along an axial length within the canal; and contacting with the implant less than 50% of the tissue forming the canal along the axial length.

Inventors

SCHIEBER ANDREW T
EUTENEUER CHARLES L

Latest standardized assignees - inventors removed

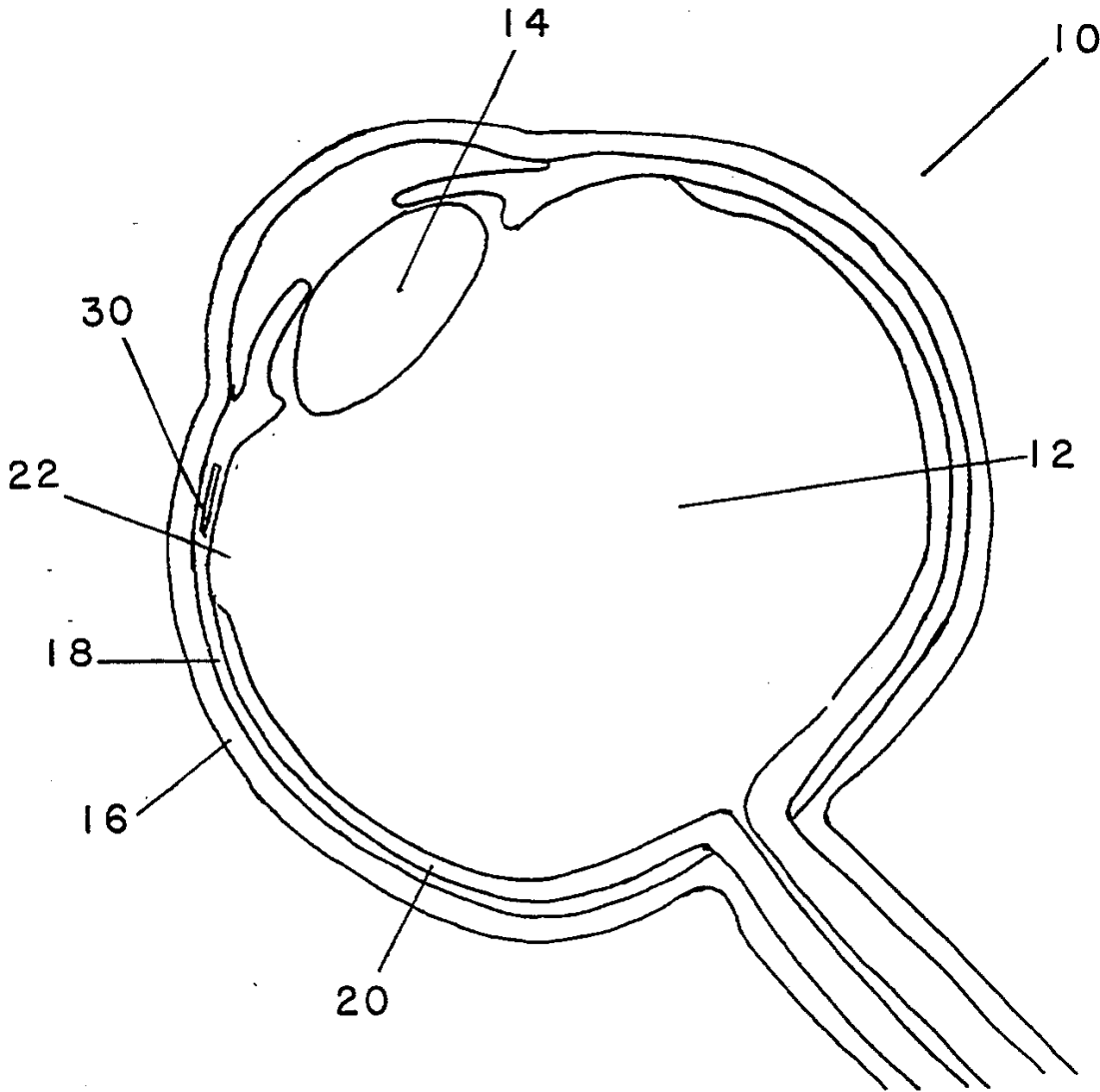
IVANTIS

Family 95/100 - FAMPAT - ©Questel

Title

(EP-729324)
Biocompatible **ocular** implants

Images



Publication data including kind & date

WO9513765	A1	1995-05-26	WO9513765
CA2176145	A1	1995-05-26	CA2176145
AU1092495	A	1995-06-06	AU9510924
US5443505	A	1995-08-22	US5443505



EP0729324	A1	1996-09-04	EP-729324
KR19960705512	A	1996-11-08	KR19967005512
CN1139375	A	1997-01-01	CN1139375
JPH09505300	A	1997-05-27	JP09505300
EP0729324	A4	1997-09-03	EP-729324
TW368411	B	1999-09-01	TW-368411
EP0729324	B1	2004-09-01	EP-729324
AT274872	T	2004-09-15	ATE274872
DE69433981	D1	2004-10-07	DE69433981
ES2231781	T3	2005-05-16	ES2231781
DE69433981	T2	2005-09-01	DE69433981
CA2176145	C	2007-04-10	CA2176145

**Abstract**

(EP-729324)

Implants comprising active agents are employed for introduction into a suprachoroidal space or an avascular region of an eye for therapeutic purposes. The administration of drugs is controlled and maintained for long periods of time, while ensuring the substantial absence of significant levels outside the site of administration.

Inventors

WONG VERNON G

KOCHINKE FRANK

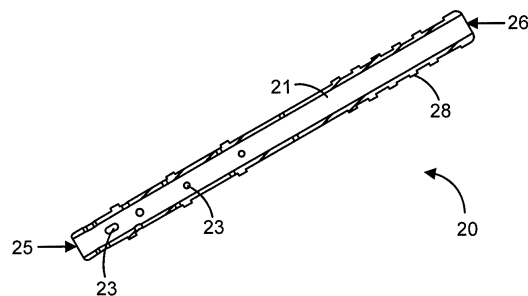
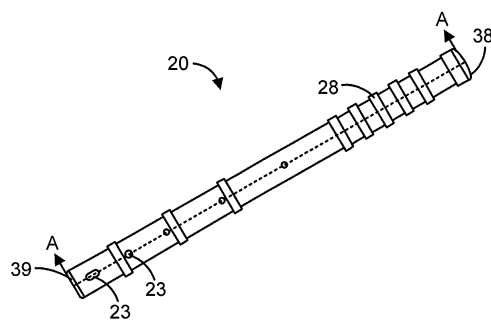
Latest standardized assignees - inventors removed

ALLERGAN

Family 96/100 - FAMPAT - ©Questel

Title

(WO201478288)

Flow promoting **ocular** implant**Images****Publication data including kind & date**

US20140135916	A1	2014-05-15	US20140135916
WO2014078288	A1	2014-05-22	WO201478288
US9763829	B2	2017-09-19	US9763829

**Abstract**

(WO201478288)

Disclosed are devices, methods and systems for treatment of eye disease, including open angle glaucoma and narrow angle glaucoma. Implants are described herein that create a directed flow field, such as between the anterior chamber and either the supraciliary space or suprachoroidal space. In addition, the implant can include a variety of features, including extruded features, such as rings and pegs, which can assist in preventing **ocular** tissue from collapsing onto the implant

and occluding fluid pathways.

Inventors

CLAUSON LUKE

JOHN STEVEN

LARI DAVID

IANCHULEV SEAN

SCHALLER MICHAEL

Latest standardized assignees - inventors removed

NOVARTIS

Family 97/100 - FAMPAT - ©Questel

Title

(EP1545655)

Implantable **ocular** pump to reduce intraocular pressure

Images

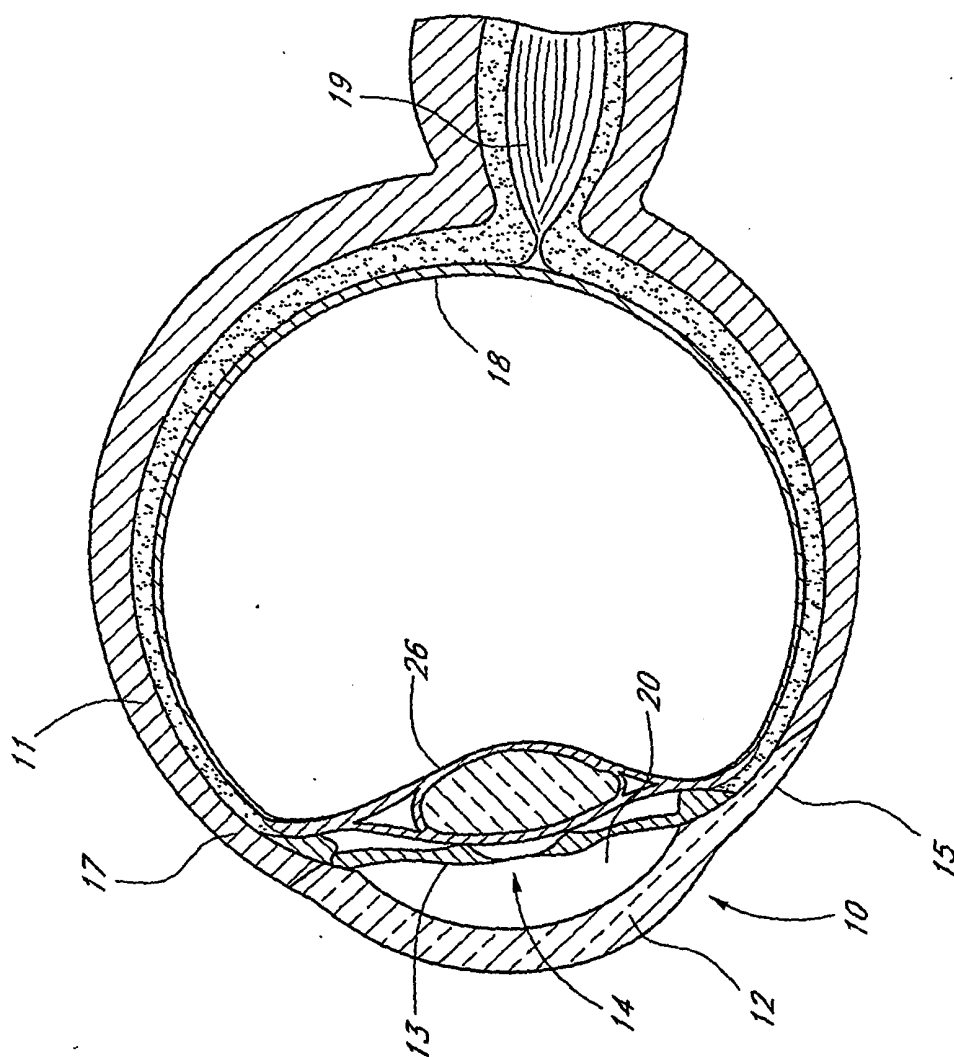


FIG. 1

Publication data including kind & date

WO2004014218	A2	2004-02-19	WO200414218
CA2488393	A1	2004-02-19	CA2488393
AU2003264014	A1	2004-02-25	AU2003264014
WO2004014218	A3	2004-08-05	WO200414218
EP1545655	A2	2005-06-29	EP1545655



JP2005535392	A	2005-11-24	JP2005535392				
EP1545655	A4	2006-05-31	EP1545655				
AU2003264014	B2	2008-07-17	AU2003264014				
EP1545655	B1	2008-12-31	EP1545655				
AT419027	T	2009-01-15	ATE419027				
DE60325615	D1	2009-02-12	DE60325615				
JP4258657	B2	2009-04-30	JP4258657				
ES2318185	T3	2009-05-01	ES2318185				
CA2488393	C	2011-02-01	CA2488393				

Abstract

(EP1545655)

A trabecular pump (40) is implantable in the eye to reduce intraocular pressure. The pump drains aqueous humor from the anterior chamber into outflow pathways, such as Schlemm's canal. A feedback system includes an intraocular pump (54) and a pressure sensor (43/61) in communication with the pump, for regulating intraocular pressure.

Inventors

SMEDLEY GREGORY

HAFFNER DAVID

TU HOSHENG

GHARIB MORTEZA

Latest standardized assignees - inventors removed

GLAUKOS

Family 98/100 - FAMPAT - ©Questel

Title

(AU2009202842)

Apparatus and method for treating **ocular** disorders**Images**

2009202842 14 Jul 20

1 / 7

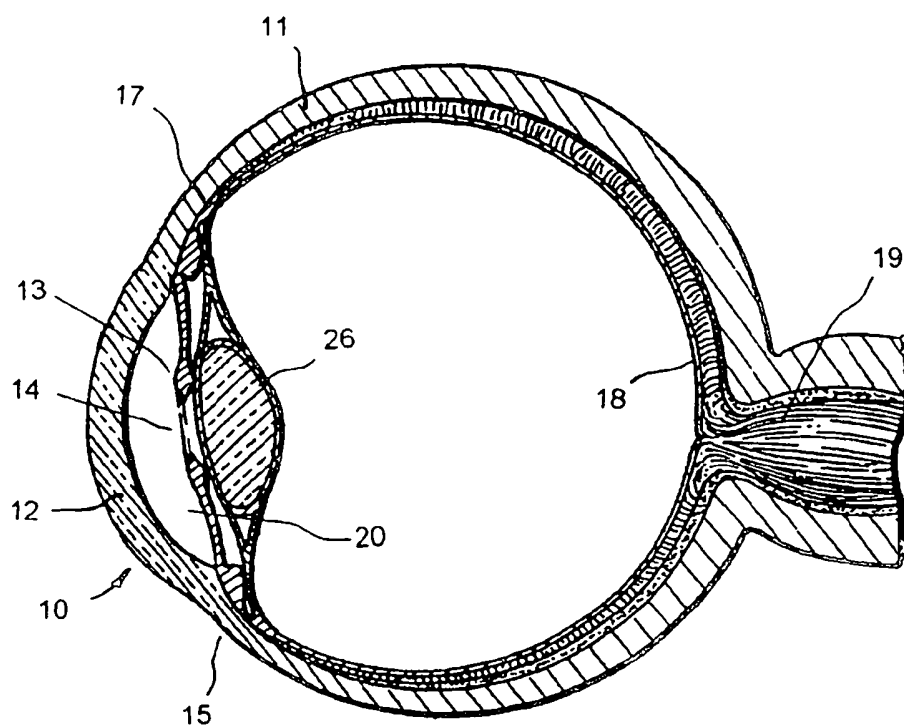


FIG 1

Publication data including kind & date

AU2009202842	A1	2009-08-06	AU2009202842
AU2009202842	B2	2012-01-12	AU2009202842

**Abstract**

(AU2009202842)

APPARATUS AND METHOD FOR TREATING **OCULAR** DISORDERS Abstract Surgical methods and related medical devices for treating glaucoma are disclosed. The method comprises trabecular bypass surgery, which involve bypassing diseased trabecular meshwork with the use of a seton implant. The seton implant is used to prevent a healing process known as filling in, which has a tendency to close surgically created openings in the trabecular meshwork. The surgical method and novel implant are addressed to the trabecular meshwork, which is a major site of resistance to outflow in glaucoma. In addition to bypassing the diseased trabecular meshwork at the level of the trabecular meshwork, existing outflow pathways are also used or restored. The seton implant is positioned through the trabecular meshwork so that an inlet end of the seton implant is exposed to the anterior chamber of the eye and an outlet end is positioned into fluid collection channels at about an exterior surface of the trabecular meshwork or up to the level of aqueous veins.

Inventors

GHARIB MORTEZA

BERGHEIM OLAV B

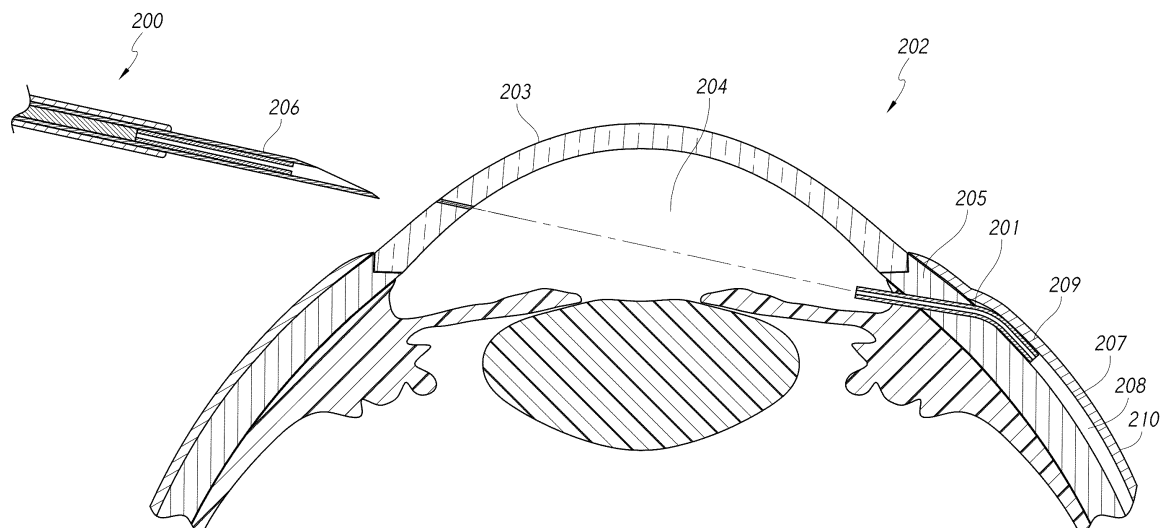
Latest standardized assignees - inventors removed

GLAUKOS

Family 99/100 - FAMPAT - ©Questel

Title

(US9980854)

Shunt placement through the sclera**Images****Publication data including kind & date**

US20120123316	A1	2012-05-17	US20120123316
US20140018720	A1	2014-01-16	US20140018720
US9017276	B2	2015-04-28	US9017276
US20150290035	A1	2015-10-15	US20150290035
US20160278982	A1	2016-09-29	US20160278982
US9693901	B2	2017-07-04	US9693901
US9980854	B2	2018-05-29	US9980854

**Abstract**

(US9980854)

An intraocular **shunt** can be placed into a human eye using a hollow shaft having a distal tip with a bevel. The hollow shaft can be advanced through the anterior chamber while the hollow shaft holds the intraocular **shunt**. The distal tip can penetrate the sclera until the bevel is positioned distal to a superficial wall of the sclera. The **shunt** can be advanced at least partially from the hollow shaft into a drainage space of lower pressure than the anterior chamber. The hollow shaft can be withdrawn from the eye, leaving the **shunt** extending from the anterior chamber completely through the sclera to the drainage space.

Inventors

HORVATH CHRISTOPHER

ROMODA LASZLO O

LEWIS RICHARD A

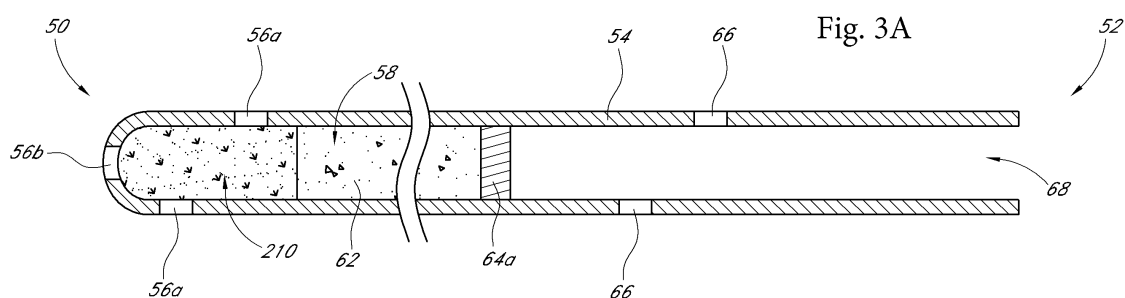
Latest standardized assignees - inventors removed

AQUESYS

Family 100/100 - FAMPAT - ©Questel

Title

(WO2017184881)

Bioresorbable **ocular** drug delivery device**Images****Publication data including kind & date**

CA3022830	A1	2017-10-26	CA3022830
WO2017184881	A1	2017-10-26	WO2017184881
AU2017252294	A1	2018-12-06	AU2017252294

**Abstract**

(WO2017184881)

An **ocular** implant configured for implantation into the eye of a subject comprising an elongate outer shell (54), an internal plug (210) including a hydrogel and a drug reservoir including a drug (62) wherein the drug is configured to pass through at least a portion of the internal plug to control elution of the drug through the outer shell. The implant is made of biodegradable materials.

Inventors

HEITZMANN HAROLD ALEXANDER

CURRY KENNETH MARTIN

HAFFNER DAVID STEVEN

BURNS THOMAS W