

1) Family number: 8455478 (US5352233 A)

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Title: SCALPEL AND TECHNIQUE FOR USING SCALPEL

Abstract: To control the angle of an incision by a surgical scalpel during microsurgery, a scalpel has a double-beveled thin blade with reflective and light-absorbing matted portions on its surface whereby glare from the reflective portions of the blade indicates the angle of an incision. The matted portions are spaced longitudinally along the blade of the scalpel against a reflective background. A source of light in the microscope is reflected into the eye piece of the microscope from the blade so that the pattern of reflective and matted portions indicates the angle of the blade with respect to the light source.

Classifications:

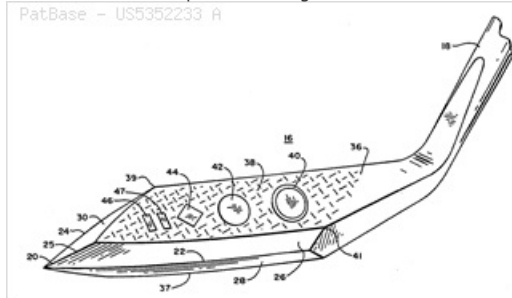
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A61F9/013

International (IPC 1-7): A61B17/32

CPC: A61B17/3211 A61B2090/067 A61B2090/3937 A61F9/0133

US: 30/346 606/166 606/167

PatBase - US5352233 A

**Family:**

Publication number	Publication date	Application number	Application date
AU199461729 A1	19940829	AU19940061729	19940208
US5352233 A	19941004	US19930015479	19930209
WO9417740 A1	19940818	WO1994US01461	19940208

Priority:

US19930015479 19930209 WO1994US01461 19940208

Probable Assignee: ANIS AZIZ Y

Assignee(s): (std): ANIS AZIZ Y ; AZIZ Y ANIS

Inventor(s): (std): ANIS AZIZ Y

Inventor(s): AZIZ Y ANIS

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

2) Family number: 30108618 (US2002052614 AA)

© PatBase

Title: BLADE WITH AMORPHOUS CUTTING EDGE

Abstract: The invention relates to a blade (1) consisting of a carrier member (7) and a foil (5) of amorphous metal joined to the carrier member via an adhesive layer (9), said amorphous metal forming the cutting edge (3) of the blade. The cutting edge (3) of the blade is formed by a one-sided ground section extending over the carrier material as well as the amorphous metal. The use of the foil (5) of amorphous metal allows the manufacture of an inexpensive blade having a high sharpness and a, with respect to the blade body, exactly defined position of the cutting edge (3).

Classifications:

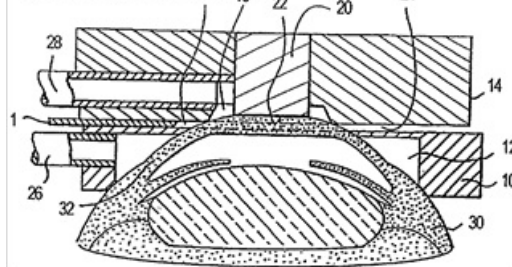
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B23P15/40

International (IPC 1-7): A61B17/32 A61F9/00 A61F9/013 B21D53/64
B23K26/00 B23P15/40 B24B3/60 B26B21/00 B26B21/54 B26B21/58
B26B9/00 B26D1/00 G01N1/06

CPC: A61B17/32 A61B17/3211 A61F9/0133 B23P15/40

US: 606/166 606/166P

PatBase - US2002052614 AA

**Family:**

Publication number	Publication date	Application number	Application date
DE10051215 A1	20020508	DE20001051215	20001016
DE20023239 U1	20030814	DE20002023239U	20001016
EP1199055 A1	20020424	EP20010124723	20011016
US2002052614 AA	20020502	US20010881320	20010614

Priority:

DE20001051215 20001016 DE20002023239U 20001016 US20010881320 20010614

Probable Assignee: GEBAUER GMBH

Assignee(s): (std): GEBAUER GMBH

Assignee(s): GEBAUER DETLEV P

Inventor(s): (std): GEBAUER DETLEV P ; GEBAUER DETLEV P DIPL ING
Inventor(s): DETLEV P GEBAUER
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

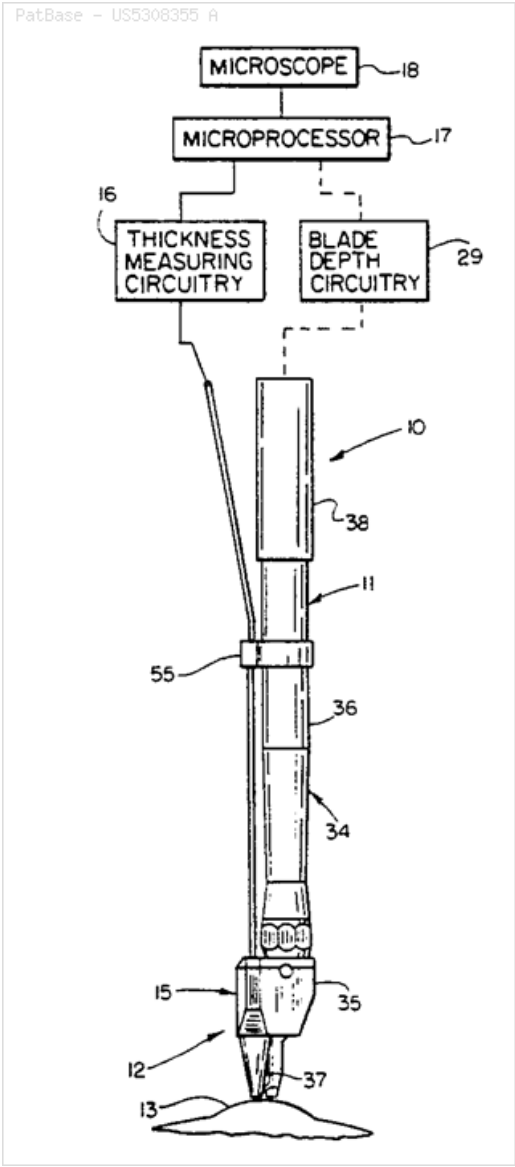
3) Family number: 8436111 (US5308355 A) © PatBase

Title: OPHTHALMIC SURGICAL INSTRUMENT AND METHOD

Abstract: A corneal surgical instrument comprising a surgical knife and ultrasonic probe assembly that measures the corneal thickness, monitors the positioning and perpendicularity of the knife and controls the depth of the knife blade. The ultrasonic probe assembly includes a pair of ultrasonic probes disposed on opposite sides of said cutting plane of the knife blade. Information on monitored parameters is displayed to the surgeon in the display of a surgical instrument used to perform corneal surgery.

Classifications:

International (ipc 8-9): A61B17/00 A61B17/32 A61B19/00
A61F9/007 A61F9/013
International (ipc 1-7): A61B17/32 A61F9/007
CPC: A61B2017/00106 A61B2090/033 A61B2090/062 A61B2090/378
A61B90/20 A61F9/013 A61F9/0133
US: 128/661.06 128/898 600/452 606/166 606/170



Family:

Publication number	Publication date	Application number	Application date
AU199455970 A1	19940608	AU19940055970	19931108
CA2148710 AA	19950504	CA19932148710	19931108
EP0705076 A1	19960410	EP19940901348	19931108
EP0705076 A4	19960731	EP19940901348	19931108
JP8506026 T2	19960702	JP19940512288T	19931108
US5308355 A	19940503	US19920972756	19921106
US5674233 A	19971007	US19950433333	19951115
WO9410918 A1	19940526	WO1993US10797	19931108

Priority:

US19920972756 19921106 WO1993US10797 19931108 US19950433333 19951115

Probable Assignee: DYBBS ALEXANDER

Assignee(s): (std): ALEXANDER DYBBS ; DYBBS ALEXANDER

Inventor(s): (std): DYBBS ALEXANDER

Inventor(s): ALEXANDER DYBBS

Agent(s): SMART AND BIGGAR

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR

4) Family number: 13051584 (US5486188 A)

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Title: KERATOSCOPIC SURGICAL INSTRUMENT FOR MAKING RADIAL AND ARCUATE CORNEAL INCISIONS

Abstract: An incision guide instrument for radial keratotomy has a lens positionable over a cornea, containing an incision guide slot adjacent to which is disposed two mirror surfaces within the lens. The mirrors are angled to allow a surgeon to observe and control the blade depth penetration into the cornea. The slotted, mirrored lens is rotatable and has clip and notch means to locate any of sixteen different radial incision positions. Transverse arcuate cuts are also allowed by the rotatable lens, and a stop means prevents the transverse cuts from contacting the radial cuts. An annular cone disposed over the sclera defines a vacuum chamber for holding the eye in position relative to the lens.

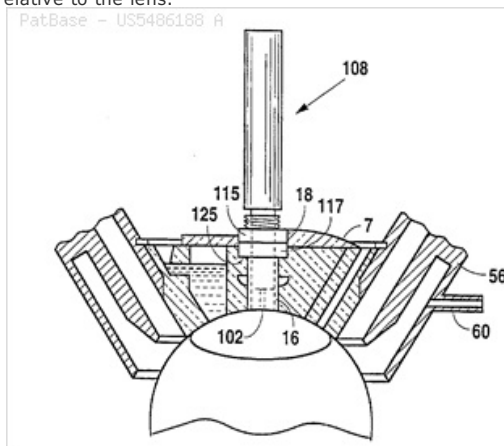
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International (IPC 1-7): A61B17/32 A61B3/10 A61B3/12 A61F9/00 A61F9/007

CPC: A61F9/013

US: 606/166 606/167

**Family:**

Publication number	Publication date	Application number	Application date
AU199511794 A1	19950606	AU19950011794	19941115
EP0729327 A1	19960904	EP19950902566	19941115
EP0729327 A4	19991124	EP19950902566	19941115
JP9506274 T2	19970624	JP19950514566T	19941115
US5486188 A	19960123	US19930151996	19931115
US5626594 A	19970506	US19950574615	19951219
WO9513768 A1	19950526	WO1994US13176	19941115

Priority:

US19930151996 19931115 WO1994US13176 19941115 US19950574615 19951219

Probable Assignee: SEB SA

Assignee(s): (std): ALAN D SMITH ; SMITH ALAN D

Assignee(s): SEB SA

Inventor(s): (std): SMITH ALAN D

Inventor(s): ALAN D SMITH

Designated states: AM AT AU BB BE BG BR BY CA CH CN CZ DE DK ES FI FR GB GE GR HU IE IT JP KE KG KP KR KZ LI LK LT LU LV MC MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN

5) Family number: 52239392 (US2014031847 AA)

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Title: MEDICAL KNIFE

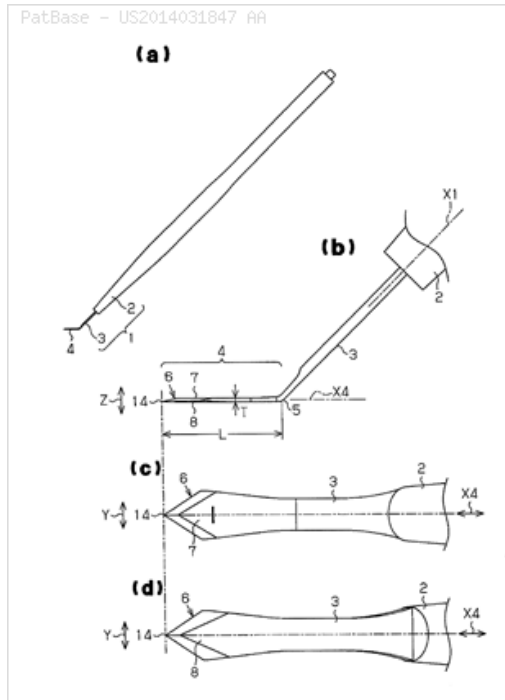
Abstract: A medical knife includes a blade plate and a blade portion formed at the distal end of the blade plate. Cutting edges extend from the distal end to the proximal end of the blade portion. Two blade surfaces in the width direction of a back-face portion of the blade portion are formed to gradually increase a distance between opposite side and cutting edge from one of the distal end and the proximal end to the other. The two blade surfaces in the width direction of a front-face portion of the blade portion are formed such that the distance between the opposite side and the cutting edge becomes equal in a zone corresponding to a distal end of the cutting edge and a zone corresponding to a proximal end of the cutting edge, over the entire cutting edge from the distal end to the proximal end of the cutting edge.

Classifications:

International (IPC 8-9): A61B17/3211 A61F9/007 A61F9/013

CPC: A61B17/3211 A61F9/0133 F04C2270/0421

US: 606/167 1/1

**Family:**

Publication number	Publication date	Application number	Application date
DE602012048905 D1	20180823	DE201260048905T	20120427
EP2702954 A1	20140305	EP20120776663	20120427
EP2702954 A4	20140917	EP20120776663	20120427
EP2702954 B1	20180725	EP20120776663	20120427
JP2012231842 A2	20121129	JP20110100960	20110428
JP5795188 B2	20151014	JP20110100960	20110428
US2014031847 AA	20140130	US20120110503	20120427
US9808279 BB	20171107	US20120110503	20120427
WO12147934 A1	20121101	WO2012JP61406	20120427

Priority:

JP20110100960 20110428 EP20120776663 20120427 WO2012JP61406 20120427

Probable Assignee: KAI R AND D CENTER CO LTD

Assignee(s): (std): AMEMOTO HIDETOSHI ; HASEBE KAZUYUKI ; KAI CORP ; KAI CUTLERY CENTER CO ; KAI R AND D CENTER CO LTD ; MORI MAKOTO

Assignee(s): KAI R AND D CENTER CO ; KAI R AND D CENTER CO LTD SEKI SHI

Inventor(s): (std): AMEMOTO HIDETOSHI ; HASEBE KAZUYUKI ; MORI MAKOTO

Agent(s): APPELYARD LEES IP LLP; MISSELBROOK PAUL; ONDA HIRONORI ET AL; POSZ LAW GROUP PLC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 1375726 (US4205682 A)

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Title: CONTACT LENS CORNEAL CUTTER

Abstract: A cutter to remove corneas from eyes which includes a body adapted to be placed and held on an eye and which has a rotatable carriage including a contact lens which rests against the surface of the cornea to restrict movement thereof and which has associated therewith a knife, the depth of cut of which is adjustable so that on a combination of rotation of the carriage and adjustment of depth of cut the cornea can be removed, the removed cornea having a truncated conical outer surface. The specification also describes a surgical method of removing and replacing corneas in eyes.

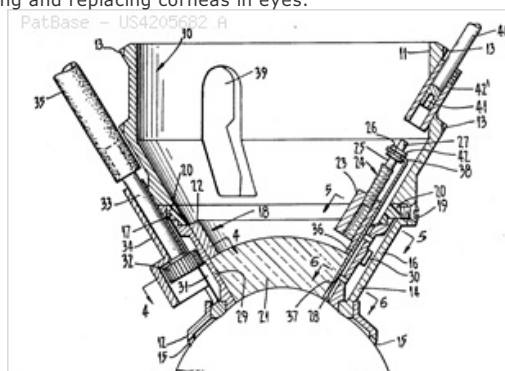
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CPC: A61F9/013

US: 128/305 30/276 30/293 600/562 606/166 606/172 606/179

**Family:**

Publication number	Publication date	Application number	Application date
AU197728855 A1	19790322	AU19770028855	19760917
AU510157 B2	19800612	AU19770028855	19760917
CH620111 A	19801114	CH19770011358	19770916
DE2741663 A1	19780323	DE19772741663	19770916
DE2741663 C2	19860507	DE19772741663	19770916
FR2364646 A1	19780414	FR19770028182	19770919
FR2364646 B1	19830805	FR19770028182	19770919
GB1530250 A	19781025	GB19770038901	19770919
JP1364912 C3	19870209	JP19770111500	19770916
JP53059288 A2	19780527	JP19770111500	19770916
JP61033588 B4	19860802	JP19770111500	19770916
US4205682 A	19800603	US19770834660	19770919

Priority:

AU19770028855 19760917 AU19760007403 19760917

Probable Assignee: UNIV MELBOURNE

Assignee(s): (std): UNIV MELBOURNE

Assignee(s): OF MELBOURNE PARKVILLE VICTORIA AU UNIV ; OF MELBOURNE UNIV ; THE UNIVERSITY OF MELBOURNE ; THE UNIVERSITY OF MELBOURNE PARKVILLE VICTORIA AU ; UNIV OF MELBOURNE ; UNIVERSITY OF MELBOURNE ; UNIVERSITY OF MELBOURNE THE

Inventor(s): (std): CROCK G W ; CROCK GERARD W ; CROCK GERARD WILLIAM ; CROCK GERARD WILLIAM PROF ; JIERAADO UIRIAMU KUROTSUKU ; PERICIC L ; PERICIC LJUBOMIR ; RUJIYUBOMIRU PERISHIITSUKU

Inventor(s): CROCK G W AND PERICK U ; G W CROCK ; GERARD WILLIAM CROCK ; JERAADO UIRIAMU KUROTSUKU ; L PERICIC ; LJUBOMIR PERICIC ; PERICIC LJUBOMIR OST MELBOURNE VIKTORIA AU ; RUJUBOMIRU PERISHIITSUKU ; WILLIAM PROF CROCK GERARD

Agent(s): SA; SANDERCOCK SMITH AND BEADLE

7) Family number: 12710135 (US5545172 A)

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Title: Rocking foot plate for surgical knife

Abstract: This invention discloses a surgical knife which is suitable for use in astigmatic radial keratotomy, and similar procedures and which includes an elongated diamond blade, a blade holder, and a rocking foot plate means pivotally attached to the knife body, and a method of performing a radial keratotomy procedure utilizing such a knife. Said rocking foot plate means has a lower surface for contacting and rocking over a peripheral portion of corneal tissue during a keratorefractive incision. The ability of the foot plate to rock assists surgeons in more precisely controlling blade movement during delicate surgeries, such as radial keratotomy.

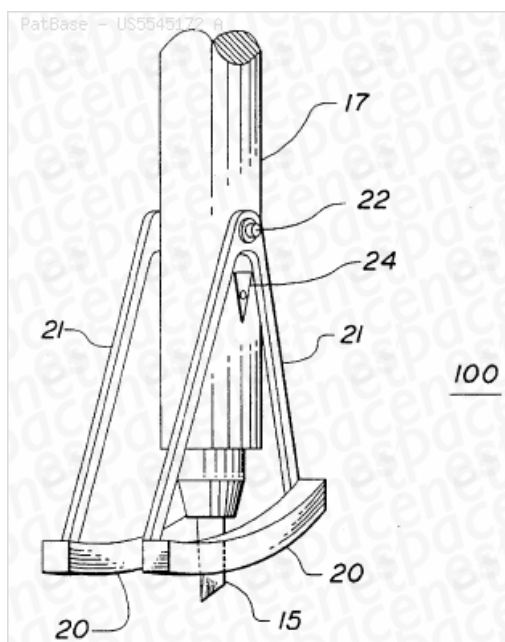
Classifications:

International (IPC 8-9): A61F9/007 A61F9/013

International (IPC 1-7): A61B17/32

CPC: A61F9/0133

US: 30/293 606/166 606/167



Family:

Publication number	Publication date	Application number	Application date
US5545172 A	19960813	US19940255035	19940607

Priority:

US19940255035 19940607

Probable Assignee: MALVERN TECHNOLOGIES INC

Assignee(s): (std): MALVERN TECHNOLOGIES INC

Inventor(s): (std): FAY KRISTEN K ; KNEPSHIELD JR WILLIAM ; KNEPSHIELD WILLIAM R

8) Family number: 28680237 (US2003130676 AA)

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Title: BLADE FOR CORNEAL SURGERY AND CORNEAL SURGICAL APPARATUS COMPRISING THE SAME

Abstract: A blade for corneal surgery for separating a corneal epithelium in a flap shape, includes: upper and lower blade surfaces; and an edge surface connecting the upper and lower blade surfaces, the edge surface having a height of 1 to 70 mum and a connecting portion with each of the upper and lower blade surfaces having a curved surface.

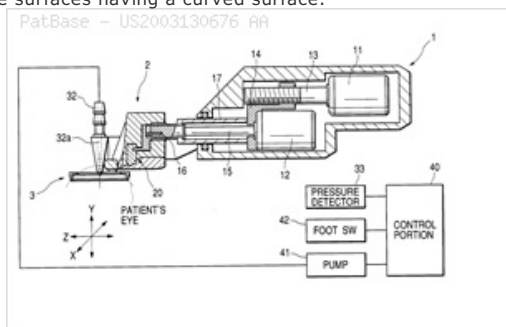
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International (IPC 1-7): A61F9/00 A61F9/007 A61F9/013

CPC: A61F9/0133

US: 606/166 606/166P



Family:

Publication number	Publication date	Application number	Application date
DE60222230 D1	20071018	DE20026022230T	20021212
DE60222230 T2	20080529	DE20026022230T	20021212
EP1325721 A2	20030709	EP20020027829	20021212
EP1325721 A3	20040204	EP20020027829	20021212
EP1325721 B1	20070905	EP20020027829	20021212
JP2003175071 A2	20030624	JP20010378692	20011212
JP3977069 B2	20070919	JP20010378692	20011212
JP2003180726 A2	20030702	JP20010379251	20011212
JP3977070 B2	20070919	JP20010379251	20011212
US2003130676 AA	20030710	US20020316044	20021211
US7135028 BB	20061114	US20020316044	20021211

Priority:

JP20010378692 20011212 JP20010379251 20011212

Probable Assignee: NIDEK CO LTD

Assignee(s): (std): NIDEK CO LTD ; NIDEK KK

Assignee(s): NIDEK CO

Inventor(s): (std): AMANO MASANORI ; SUGIMURA MASAHIRO ; SUGIMURA MASHIRO

Inventor(s): MASAHIRO SUGIMURA ; MASANORI AMANO

Agent(s): FINNEGAN HENDERSON FARABOW GARRETT AND DUNNER LLP

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

9) Family number: 5266073 (US4660556 A)

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Title: METHOD AND APPARATUS FOR MODIFYING CORNEAL BUTTONS

Abstract: Apparatus for altering the refraction of corneal tissue including a perforated die to deform the corneal tissue in a predetermined manner so that a cut in a transverse plane achieves the desired alteration. The corneal tissue is held firmly to the die both by suction and mechanical pressure. The method of so treating corneal tissue by deforming it to obtain a desired refraction with a planar cut including a method of holding the tissue in the deformed state by means of suction and mechanical pressure.

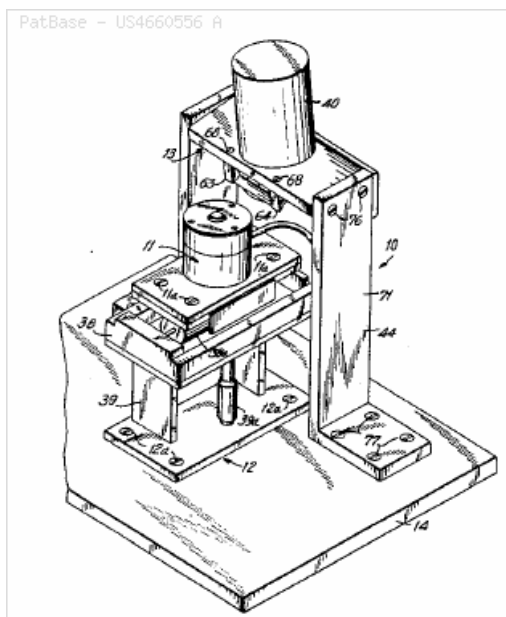
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International (IPC 1-7): A61B17/32

CPC: A61F2/142 A61F9/013

US: 128/305 606/166



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19850701558 19850214

Probable Assignee: TECHNO OPHTHALMICS INT INC

Assignee(s): (std): TECHNO OPHTHALMICS INTERNATIONAL

Assignee(s): SWINGER CASIMIR A ; TECHNO OPHTALMICS INT ; TECHNO OPHTALMICS INT INC ; TECHNO OPHTALMICS INT ; TECHNO OPHTALMICS INT INC ; TECHNO OPHTALMICS INT INC ; TECHNO OPHTALMICS INTERNATIONAL INC

Inventor(s): (std): CASSIDAY DANIEL ; SWINGER CASIMIR

10) Family number: 70862430 (US2018289544 AA)

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Title: DEVICES, SYSTEM AND METHODS FOR MINIMALLY INVASIVE GLAUCOMA SURGERY

Abstract: Devices and methods useable for forming opening in trabecular meshwork of mammalian eyes.

Classifications:

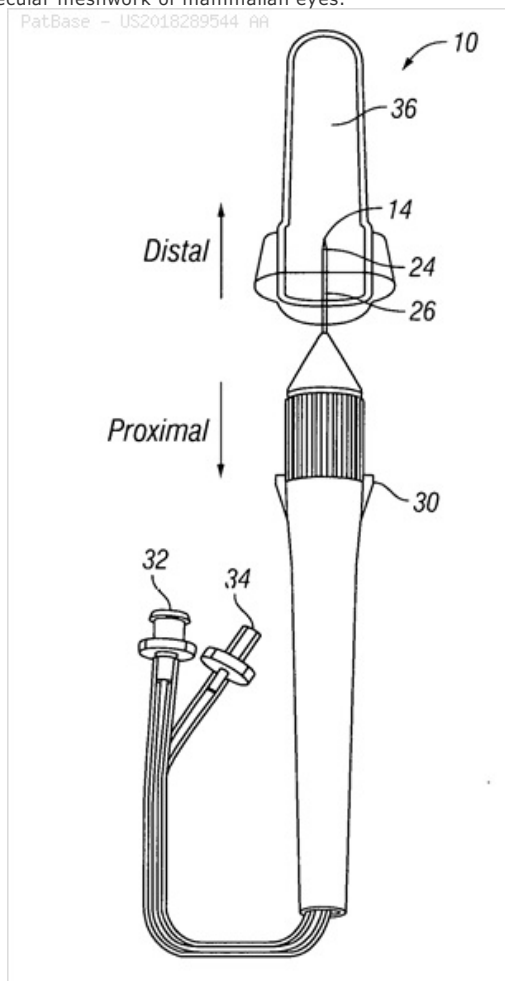
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A61M27/00

CPC: A61F9/00736 A61F9/00781 A61M1/0058 A61M2210/0612

A61M27/002 A61F2009/00868 A61F2009/00891

US: 1/1 604/8



Family:

Publication number	Publication date	Application number	Application date
AU2018222732 AA	20191003	AU20180222732	20180216
BR112019017027 A2	20200414	BR20191117027	20180216
CA3053750 AA	20190815	CA20183053750	20180216
CN110573118 A	20191213	CN201880025455	20180216
EP3582728 A1	20191225	EP20180754639	20180216
IN201947037130 A	20190927	IN201947037130	20190916
JP2020507409 T2	20200312	JP20190543894T	20180216
KR20190112144 A	20191002	KR20197026538	20180216
US2018289544 AA	20181011	US20180932355	20180216
WO18151808 A1	20180823	WO2018US00018	20180216

Priority:

US20170460061P 20170216

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US20170584613P 20171110

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US20180932355 20180216

Probable Assignee: MICROSURGICAL TECHNOLOGY INC

Assignee(s): (std): MICROSURGICAL TECHNOLOGY INC ; NEOMEDIX ; NEOMEDIX CORP

Assignee(s): BAERVELDT GEORGE ; MIRHASHEMI SOHEILA ; MITTELSTEIN MICHAEL ; SORESENSEN JOHN

Inventor(s): (std): BAERVELDT GEORGE ; GEORGE BAERVELDT ; JOHN SORESENSEN ; MICHAEL MITTELSTEIN ; MIRHASHEMI SOHEILA ; MITTELSTEIN MICHAEL ; SOHEILA MIRHASHEMI ; SORESENSEN JOHN ; SORESENSEN JOHN T

Agent(s): BUYAN ROBERT D ; CSY HERTS ; DAVIES COLLISON CAVE PTY LTD ; GOWLING WLG CANADA LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR

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MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW
SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA
ZM ZW

11) Family number: 8347531 (US5234436 A)

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Title: SHEATH STRUCTURE FOR A SURGICAL KNIFE

Abstract: For protection of the otherwise sharp protruding end of a given instrument for use in ophthalmic or other surgery, as when the instrument is to be used only after it has traversed the major part of a scleral tunnel, a shiftable guard or shield is manipulable after it has served its function of avoiding damage to hemorrhageable tissues adjacent tunnel-wall tissue, thereby exposing the sharp end only after safely passing the hemorrhageable region. Various embodiments are described.

Classifications:

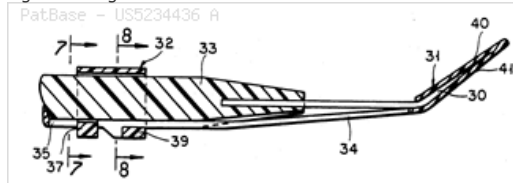
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A61F2/16 A61F9/007 A61F9/013

International (IPC 1-7): A61B17/00 A61B17/32 A61F9/007

CPC: A61B17/320016 A61B2017/32113 A61B2090/08021

A61F2/1662 A61F9/00754 A61F9/0133

US: 30/151 606/107 606/167 606/172



Family:

Publication number	Publication date	Application number	Application date
AU199223812 A1	19930223	AU19920023812	19920713
AU657887 B2	19950323	AU19920023812	19920713
CA2112820 AA	19940104	CA19922112820	19920713
EP0594787 A1	19940504	EP19920916657	19920713
EP0594787 A4	19950125	EP19920916657	19920713
JP7500029 T2	19950105	JP19920502877T	19920713
KR19940702350 A	19940820	KR19940700163	19940117
KR19947002350 A	19940820	KR19947000163	19920713
US5312413 A	19940517	US19920834142	19920210
US5234436 A	19930810	US19920910773	19920708
WO9301755 A1	19930204	WO1992US05829	19920713

Priority:

US19910731444 19910717 US19920834142 19920210 US19920910773 19920708
WO1992US05829 19920713

Probable Assignee: EATON ALEXANDER M

Assignee(s): (std): EATON ALEXANDER M ; EATON ALEXANDER MELLON ; SANTAMARIA JAIME

Assignee(s): ALEXANDER M EATON ; JAIME SANTAMARIA

Inventor(s): (std): EATON ALEXANDER M ; EATON ALEXANDER MELLON ; SANTAMARIA JAIME

Inventor(s): ALEXANDER M EATON ; JAIME SANTAMARIA

Agent(s): ASPEN PHARMA PTY LTD; SMART AND BIGGAR; SPRUSON AND FERGUSON

Designated states: AT AU BE CA CH DE DK ES FR GB GR IT JP KR LI LU MC NL SE

12) Family number: 43607098 (US2009204135 AA)

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Title: RETRACTABLE SAFETY KNIFE

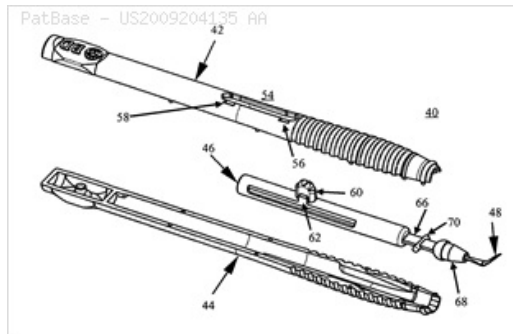
Abstract: A retractable safety knife has a hollow handle with an opening at an end thereof, a pusher that is movably disposed within the handle and is operable by a user, and a blade that is connected with an end of the pusher. When the pusher moves from a blade-retracted position to a blade-extended position, the blade extends outwardly from the handle opening and rotates from a nested position to an extended position.

Classifications:

International (IPC 8-9): A61B17/32 A61B17/3211 A61F9/007
A61F9/013 B26B1/00 B26B1/04 B26B1/08

CPC: A61B17/3211 A61B2017/32113 A61F9/0133

US: 1/1 30/162 30/162S 606/167 606/167P



Family:

Publication number	Publication date	Application number	Application date
CA2652749 AA	20090807	CA20092652749	20090205
CA2652749 C	20160809	CA20092652749	20090205
DE602009027405 D1	20141211	DE200960027405T	20090206
EP2087845 A1	20090812	EP20090152288	20090206
EP2087845 B1	20141029	EP20090152288	20090206
JP2009183718 A2	20090820	JP20090027174	20090209

JP5149216 B2	20130220	JP20090027174	20090209
US2009204135 AA	20090813	US20080068494	20080207
US8464430 BB	20130618	US20080068494	20080207
US2011098734 AA	20110428	US20100929016	20101222
US9044265 BB	20150602	US20100929016	20101222

Priority:

US20080068494 20080207 EP20090152288 20090206 US20100929016 20101222

Probable Assignee: BEAVER VISITEC INT US INC

Assignee(s): (std): BEAVER VISITEC INT US INC ; BEAVER VISITEC INTERNAT US INC ; BECTON DICKINSON CO ; COTE DANA MICHAEL

Assignee(s): BEAVER VISITEC INT ; BEAVER VISITEC INT (US) INC ; BEAVER VISITEC INT US INC WALTHAM ; BEAVER VISITEC INTERNATIONAL US INC ; BEAVER VISTEC INT US INC ; BECTON DICKINSON ACUTECARE INC ; BECTON DICKINSON AND CO ; BECTON DICKINSON AND COMPANY ; CORTLAND CAPITAL MARKET SERVICES LLC ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT AS C ; GENERAL ELECTRIC CAPITAL ADMINISTRATIVE AGENT AS CORP ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; GENERAL ELECTRIC CAPITAL CORP ; GOLDMAN SACHS BANK USA FIRST LIEN COLLATERAL AGENT AS ; HEALTHCARE FINANCIAL SOLUTIONS LLC SUCCESSOR AGENT AS ; TURNER ACQUISITION LLC ; UBS STAMFORD BRANCH COLLATERAL AGENT AG AS ; ULTRACELL MEDICAL TECHNOLOGIES INC ; WILMINGTON TRUST NATIONAL ASSOCIATION SECOND LIEN COLLATERAL AGENT AS

Inventor(s): (std): COTE DANA MICHAEL

Inventor(s): COTE DANA MICHAEL BOXFORD

Agent(s): DAVID W HIGHET VP AND CHIEF IP COUNSEL BECTON DICKINSON AND CO; GOWLING WLG CANADA LLP; ROYLANCE ABRAMS BERDO AND GOODMAN L L P; ROYLANCE ABRAMS BERDO AND GOODMAN LLP; VON KREISLER SELTING WERNER PARTNERSCHAFT VON PATENTANWAELTEN U RECHTSANWAELTEN MBB; WEBER THOMAS

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK TR

13) Family number: 63842679 (US2018078419 AA)

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Title: APPARATUS, SYSTEM, AND METHOD FOR CORNEAL MARKING

Abstract: A corneal marking system is disclosed. The system has a corneal marker with at least one projection for marking the human eye. The system further has a measurement device capable of taking measurements of the human eye. The system further has an indicator that is connected to the measurement device via a signal path. The signal path is configured to permit communication of at least one signal from the measurement device to the indicator such that the indicator provides an indication to a user of the corneal marking system.

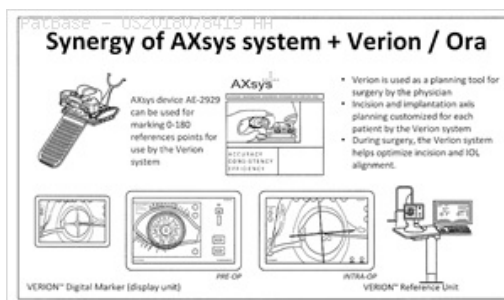
Classifications:

International (IPC 8-9): A61B3/10 A61F9/01 A61F9/013

CPC: A61B2090/3937 A61B3/0033 A61B3/0041 A61B90/37

A61F2009/00882 A61F9/00736 A61F9/0136

US: 1/1 606/166



Family:

Publication number	Publication date	Application number	Application date
US2018078419 AA	20180322	US20160566287	20160415
WO16168571 A1	20161020	WO2016US27708	20160415

Priority:

US20150148810P 20150417 WO2016US27708 20160415 US20160566287 20160415

Probable Assignee: ART LTD

Assignee(s): (std): AKAHOSHI TAKAYUKI ; ART LTD ; NALLAKRISHNAN RAVI

Inventor(s): (std): AKAHOSH TAKAYUK ; AKAHOSHI TAKAYUKI ; NALLAKRISHNAN RAVI ; NALLAKRSHNAN RAV

Agent(s): MILLER CHRISTIAN ET AL

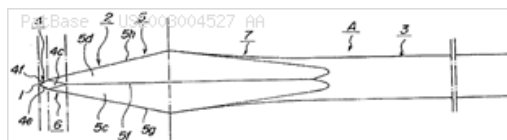
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

14) Family number: 24130013 (US2003004527 AA)

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Title: MEDICAL BLADED DEVICE

Abstract: A medical bladed device is provided containing a handle and a cutting blade portion which is tapered and formed in continuation from the handle and having first and second faces on a front face, and third and fourth faces on a back face with a pair of primary cutting blades, each formed on both sides thereof, and a pair of secondary cutting blades, each formed on both sides thereof, the cutting blade having a sharp tip and being formed with a triangular cross section by forming a fifth face diagonally crossing from the front face of the cutting blade portion to the back face of the cutting blade portion. A secondary cutting blade angle is formed by the pair of secondary cutting blades ranging from 35 to 105 degrees, and a primary cutting blade angle is formed by an imaginary intersecting point between the pair of primary cutting blades ranging from 15 degrees to 35 degrees.

Classifications:**International (IPC 8-9):** A61B17/06 A61B17/32 A61B17/3211 A61F9/007**International (IPC 1-7):** A61B17/32 A61F9/007 A61F9/07**CPC:** A61B17/3211**US:** 30/346 606/167 606/167P**Family:**

Publication number	Publication date	Application number	Application date
CH696381 A	20070531	CH20020000849	20020522
CN1262247 C	20060705	CN20021020662	20020524
CN1387829 A	20030101	CN20021020662	20020524
DE10223253 A1	20021128	DE20021023253	20020524
DE10223253 B4	20130905	DE20021023253	20020524
JP2002345834 A2	20021203	JP20010156492	20010525
US2003004527 AA	20030102	US20020153705	20020524
US6837896 BB	20050104	US20020153705	20020524

Priority:

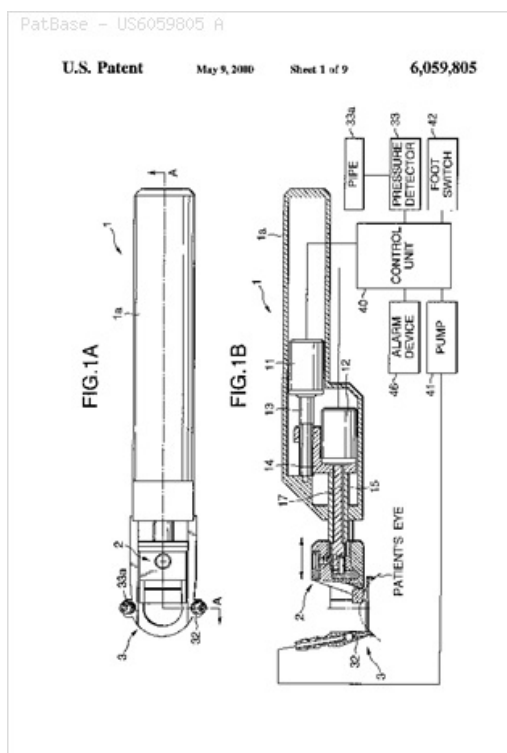
JP20010156492 20010525

Probable Assignee: MANI INC**Assignee(s):** (std): MANI INC ; MANII KK ; MARNEY CO LTD**Assignee(s):** INA TAKASHI ; MARNEY CO ; MATSUTANI KANJI**Inventor(s):** (std): INA TAKASHI ; KANSHI MATSUTANI ; MATSUTANI KANJI ; MATSUTANI KANLI ; SAITO MASATOSHI ; SHOJU MATSUTANI KANSHI INA SOS ; SHOJU SAITO ; SOSHI INA**Inventor(s):** INA SOSHI ; KANJI MATSUTANI ; MATSUTANI KANSHI ; MATSUTANI KANSHI INA SOSHI SAITO SHOJU ; SAITO SHOJU ; TAKASHI INA**Agent(s):** TOWNSEND AND BANTA**15) Family number: 12236630 (US6059805 A)**

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Title: Corneal surgical apparatus

Abstract: In a corneal surgical apparatus for incising a cornea of a patient's eye in a layered form, a suction ring is fixedly provided on a main body. The suction ring has an opening from which the cornea of the patient's eye is projected. An applanating portion is provided, which has a flat side abutting against the cornea of the patient eye projected from the opening of the suction ring. A blade is supported movably along said suction ring in a space defined between the suction ring and the flat side of the applanating portion. A projection is associated with the blade to increase the space as the blade incises the cornea.

Classifications:**International (IPC 8-9):** A61B17/30 A61F9/007 A61F9/013**International (IPC 1-7):** A61F9/00 A61F9/007 A61F9/013**CPC:** A61B2017/306 A61F9/013**US:** 606/166**Family:**

Publication number	Publication date	Application number	Application date
DE69930335 D1	20060511	DE19996030335T	19990330
DE69930335 T2	20060803	DE19996030335T	19990330
EP0956841 A2	19991117	EP19990106552	19990330
EP0956841 A3	20040121	EP19990106552	19990330
EP0956841 B1	20060315	EP19990106552	19990330
JP11276513 A2	19991012	JP19980125440	19980331
JP2000166957 A2	20000620	JP19980350167	19981209
JP4086388 B2	20080514	JP19980350167	19981209

Priority:

JP19980125440 19980331 JP19980350167 19981209

Probable Assignee: NIDEK CO LTD

Assignee(s): (std): NIDEK KK

Assignee(s): NIDEK CO ; NIDEK CO LTD

Inventor(s): (std): KOZAWA KATSUHIKO ; MAKINO HIROKATSU ; OZAWA KATSUHIKO ; SUGIMURA MASAHIRO

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

16) Family number: 15897723 (US6299617 BA)

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Title: INSTRUMENT FOR FIXATING THE EYE DURING CATARACT SURGERY

Abstract: A method and apparatus for fixating an eye during ocular surgery, including inserting a two-pronged tool through an incision in the cornea into the anterior chamber. The two prongs prohibit movement of the eye in all directions. An alternate embodiment provides for use of two such two-pronged tools which are coupled together and each of the two-pronged tools is inserted in the incision and help to prohibit movement of the eye.

Classifications:

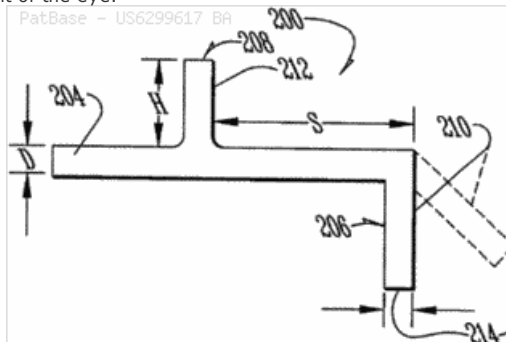
International (IPC 8-9): A61B17/02 A61F9/007

International (IPC 1-7): A61B17/24 A61B1/726 A61B17/24

A61B17/26

CPC: A61B17/0231 A61F9/00736

US: 600/236 606/107



Family:

Publication number	Publication date	Application number	Application date
US6299617 BA	20011009	US19980050587	19980330

Priority:

US19980050587 19980330

Probable Assignee: STAMLER JOHN

Assignee(s): STAMLER JOHN

Inventor(s): (std): STAMLER JOHN

Inventor(s): JOHN STAMLER

Agent(s): SIMMONS PERRINE ALBRIGHT AND ELLWOOD PLC

17) Family number: 43712345 (US2004102729 AA)

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Title: DEVICES AND METHODS FOR GLAUCOMA TREATMENT

Abstract: Intraocular stents and applicators are disclosed for treating glaucoma. The stents are configured to extend between the anterior chamber of the eye and Schlemm's canal for enhancing outflow of aqueous from the anterior chamber so as to reduce intraocular pressure. The stents can have features for anchoring the stent into Schlemm's canal as well as preventing the walls of Schlemm's canal from closing the outlet of the stents. 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.

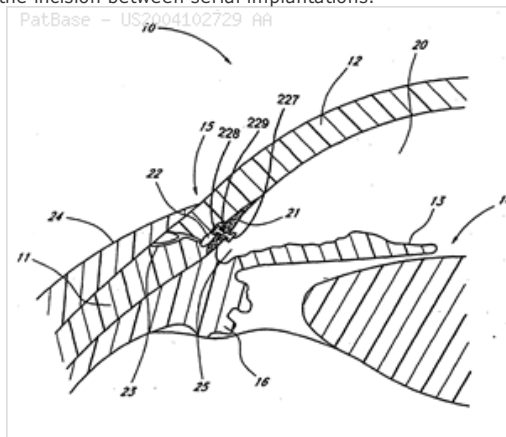
Classifications:

International (IPC 8-9): A61F9/00 A61F9/007 A61M5/00

International (IPC 1-7): A61B19/00 A61F11/00 A61F2/06 A61M5/00

CPC: A61F9/00781

US: 128/898 128/898S 604/8 604/8P 606/108 606/108S 623/1.11 623/1.110S



Family:

Publication number	Publication date	Application number	Application date
US2004102729 AA	20040527	US20030634213	20030805
US7867186 BB	20110111	US20030634213	20030805

Priority:

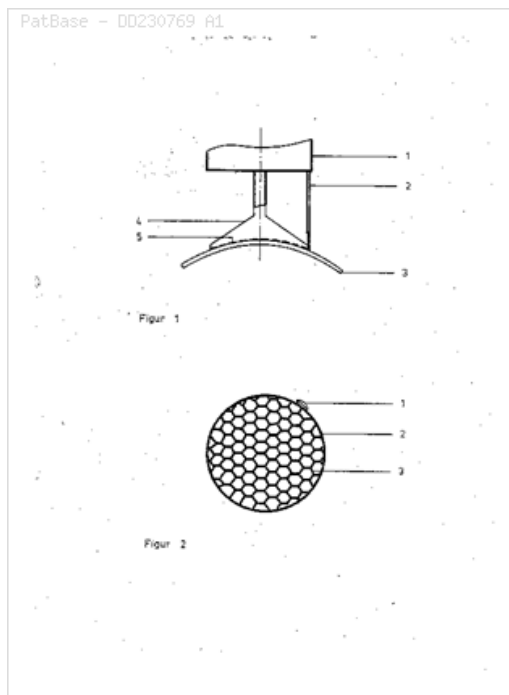
US20020118578 20020408 US20020401166P 20020805 US20030451226P 20030228
US20030634213 20030805

Probable Assignee: GLAUKOS CORP**Assignee(s):** (std): GLAUKOS CORP**Assignee(s):** HAFFNER DAVID ; SMEDLEY GREGORY T ; TU HOSHENG**Inventor(s):** (std): HAFFNER DAVID ; HILL RICHARD A ; SMEDLEY GREGORY T ; TU HOSHENG**Inventor(s):** DAVID HAFFNER ; GREGORY T SMEDLEY ; HOSHENG TU**Agent(s):** KNOBBE MARTENS OLSON AND BEAR LLP**18) Family number: 2779706** (DD230769 A1)

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Title: CUTTING HEAD OF A TREPHINE FOR KERATOPLASTY AND PROCEDURES (Machine translation)

Abstract: Source: DD230769 A1 **Machine translation:** [Source: claim 1] 1 cutting head of a Trephine for keratoplasty, to cut circular surfaces, marked by a rotationally symmetrical funnel spans the area to be cut with its funnel opening and top of the convex, Lancet-shaped designed one single point knife thrust towards the funnel opening showing at the edge of the hopper opening is flush mounted.

Classifications:**International (IPC 8-9):** A61B17/32**International (IPC 1-7):** A61B17/32**Family:**

Publication number	Publication date	Application number	Application date
DD230769 A1	19851211	DD19830249935	19830418
DD230769 B1	19880928	DD19830249935	19830418

Priority:

DD19830249935 19830418

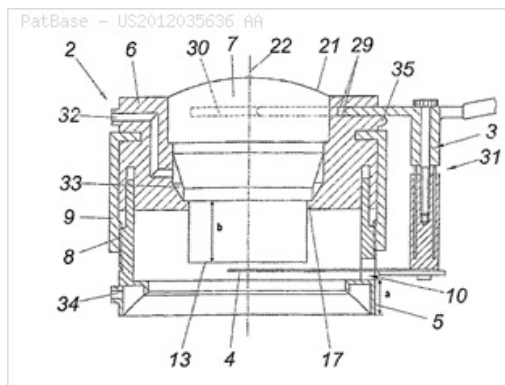
Probable Assignee: WILHELM DEUTSCHMANN FEINMECHAN**Assignee(s):** (std): WILHELM DEUTSCHMANN FEINMECHAN**Assignee(s):** FA WILHELM DEUTSCHMANN FEINMECHAN MEDIZINTECHN DD**Inventor(s):** (std): DEUTSCHMANN SIEGFRIED**Inventor(s):** DEUTSCHMANN SIEGFRIED DD**19) Family number: 46627752** (US2012035636 AA)

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Title: DEVICE FOR CUTTING THE CORNEA OF AN EYE

Abstract: The invention relates to a device for cutting the cornea of an eye in order to correct the refractive power thereof, with a ring body that can be suctioned onto the eye, with an applanator (7) for deforming the cornea, and with a blade (4) which is guided in a guide plane perpendicular to the axis of the ring body, is mounted in front of the applanator (7) and is used to cut a pocket in the corneal tissue. So as to avoid adversely affecting the cutting depth and therefore the cutting accuracy upon penetration of the holder into the corneal pocket, provision is made that the blade (4) is secured on a blade receptacle (50) of a holder or fixture in such a way that the top side (51) of the blade receptacle (50) does not protrude above the top side (44) of the blade (4), at least within the depth of penetration of the blade receptacle (50) into the cornea.

Classifications:**International (IPC 8-9):** A61B17/32 A61F9/007 A61F9/013**CPC:** A61F9/013 A61F9/0133**US:** 606/166 606/166P



Family:

Publication number	Publication date	Application number	Application date
AT507942 A1	20100915	AT20090000285	20090220
CN102365066 A	20120229	CN201080014783	20100219
CN102365066 B	20141126	CN201080014783	20100219
EP2398434 A1	20111228	EP20100711619	20100219
RU2011137237 A	20130327	RU20110137237	20100219
RU2528853 C2	20140920	RU20110137237	20100219
US2012035636 AA	20120209	US20100138458	20100219
WO10094766 A1	20100826	WO2010EP52123	20100219

Priority:

AT20090000285 20090220 AT20090001660 20091021 AT20090001661 20091021
AT20090001766 20091106 AT20100000252 20091117 AT20090000252 20091117
WO2010EP52123 20100219

Probable Assignee: DAKSER AL BERT

Assignee(s): (std): ALBERT DAXER ; DAKSER AL BERT ; DAXER ALBERT ; DAXER ALBERT DR

Inventor(s): (std): ALBERT DAXER ; DAKSER AL BERT ; DAXER ALBERT ; DAXER ALBERT DR

Agent(s): KLIMENT AND HENHAPEL; KLIMENT AND HENHAPEL PATENTANWAELTE OG

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

20) Family number: 70211518 (US10004642 BA)

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Title: APPARATUS AND METHOD FOR CORNEAL MARKING

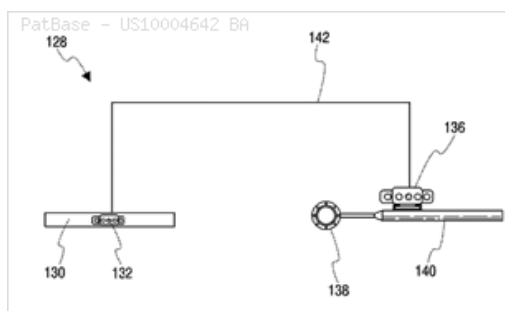
Abstract: A corneal marking system, and methods for its use, has a tilt-detecting device attached to a corneal marker, adapted to produce a signal when the corneal marker is in a horizontal position. Use of measurement devices may be coordinated between the marker and a level-measuring device positioned on a patient's head. Devices capable of measuring one, two or three axes are used and processors are provided to evaluate the data produced by the devices and provide a physician with a signal that the positions of the patient's head and the marker are such that an accurate marking procedure can be performed.

Classifications:

International (IPC 8-9): A61F9/013

CPC: A61F9/0136

US: 1/1 606/166



Family:

Publication number	Publication date	Application number	Application date
US10004642 BA	20180626	US20130867934	20130422
US2018303668 AA	20181025	US20180980481	20180515

Priority:

US20120636668P 20120422 US20130755945P 20130123 US20130794011P 20130315
US20130867934 20130422 US20180980481 20180515

Probable Assignee: ART LTD

Assignee(s): (std): ART LTD

Inventor(s): (std): AKAHOSHI TAKAYUKI ; NALLAKRISHNAN RAVI

Agent(s): WOOD PHILLIPS KATZ CLARK AND MORTIMER