

Nicolas Vargas

1) Family number: 63591930 (US2016270656A)

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Title: METHODS AND SYSTEMS FOR DIAGNOSING AND TREATING HEALTH AILMENTS

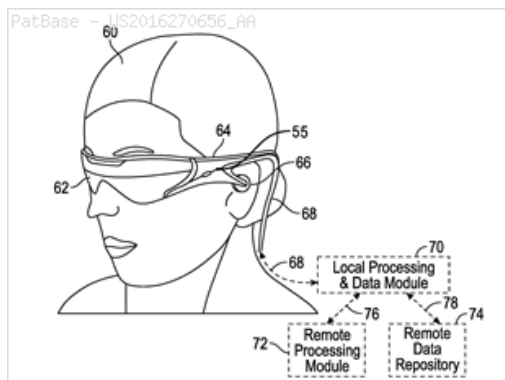
Abstract: Source: US2016270656A [EN] Configurations are disclosed for a health system to be used in various healthcare applications, e.g., for patient diagnostics, monitoring, and/or therapy. The health system may comprise a light generation module to transmit light or an image to a user, one or more sensors to detect a physiological parameter of the user's body, including their eyes, and processing circuitry to analyze an input received in response to the presented images to determine one or more health conditions or defects.

Classifications:

International (IPC 8-9): A61B3/00 A61B3/02 A61B3/024 A61B3/028 A61B3/032 A61B3/06 A61B3/08 A61B3/09 A61B3/10 A61B3/103 A61B3/11 A61B3/113 A61B3/12 A61B3/13 A61B3/135 A61B3/14 A61B3/16 A61B3/18 A61B5/00 A61B5/01 A61B5/0476 A61B5/0496 A61B5/083 A61B5/145 A61B5/1455 A61B5/16 A61B8/00 A61B8/08 A61B8/10 A61F7/00 A61F9/00 A61F9/008 A61H1/00 A61H5/00 A61M11/02 A61M21/02 A61N5/06 G02B G02B21/00 G02B27/00 G02B27/01 G02B27/22 G02B6/26 G02C7/02 G06K9/00 G06T11/00 G06T19/00 G06T3/40 G06T5/00 G06T7/00 G10L25/66 H04N7/18 (Advanced/Invention)

CPC: A61B3/113 A61B3/1005 A61B3/0025 A61B3/165 A61B3/005 A61B3/1241 G02B27/0179 A61M21/02 G02B2027/014 G02B2027/0138 G02B2027/0185 A61B2562/0247 A61B2562/0204 A61M2021/0027 A61M2021/0022 A61M2021/0066 A61B5/14555 A61B5/6803 A61B2562/0238 A61B2562/04 A61M2205/3375 A61B3/14 A61B5/0066 A61B5/0077 A61B5/01 A61B2562/0219 A61B3/0033 A61B3/0008 A61B3/028 A61B3/1035 A61B3/066 A61B3/103 A61B3/102 A61B3/0058 A61B3/08 A61B3/09 A61B3/032 G02C7/027 G02B27/0093 A61B3/022 A61B3/112 A61B3/135 A61B3/1216 G06T7/0014 A61B3/12 G06T2207/30041 G06T2207/10148 G06T2207/10152 G06T2207/10048 A61B3/16 A61B8/461 A61B8/4483 A61B8/5207 A61H5/00 A61B3/085 A61N5/0618 G02B27/0176 A61F9/0026 A61H1/00 A61F7/007 A61B5/0059 A61N2005/0626 A61N2005/0648 A61N2005/0663 A61F2007/0004 A61F2007/0086 A61H2201/165 A61B3/024 A61B3/063 G06K9/00671 A61B3/13 G02B21/0076 G02B21/0028 G02B21/0032 A61B5/0496 A61B5/4064 A61M11/02 A61N5/062 A61N2005/067 A61F7/0085 A61B5/1455 A61B3/0091 A61F9/00823 G06T11/001 G06T3/40 G06T5/009 G06T2207/20208 A61B5/0476 A61B5/14532 A61B5/14552 A61M2205/507 G06T5/008 G06T2207/10024 G06T2207/20024 A61B3/1015 A61F2007/006 A61F2007/0064 A61F2009/00863 G02B27/0172 A61B8/10 A61B3/10

US: 128/200.14 345/633 348/62 348/63 351/201 351/203 351/206 351/209 351/211 351/221 351/222 351/224 351/237 600/27 600/301 600/318 600/459 604/20 607/91



Family:

Publication number	Publication date	Application number	Application date
AU2016233268 AA	20160922	AU20160233268	20160316
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CA2979687 AA	20170913	CA20162979687	20160316
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IL254471 A0	20171130	IL20160254471	20160316
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KR20170137726 A	20171213	KR20177027165	20160316
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WO16149416 A1	20160922	WO2016US22710	20160316
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Priority:

US20150133870P	20150316	US20160072290	20160316	US20160072341	20160316
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US20160269785	20160919	WO2016US22710	20160316	WO2016US22724	20160316

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Assignee(s): SAMEC NICOLE ELIZABETH ; SCHOWENGERDT BRIAN T ; MACNAMARA JOHN GRAHAM ; TECHNICAL SOLUTIONS INC ; ABOVITZ RONY ; BAERENRODT MARK ; HARRISES CHRISTOPHER M ; KAEHLER ADRIAN

Inventor(s): (std): ABOVITZ RONY ; BAERENRODT MARK ; HARRISES CHRISTOPHER M ; KAEHLER ADRIAN ; MACNAMARA JOHN GRAHAM ; SAMEC NICOLE ELIZABETH ; SCHOWENGERDT BRIAN T

Agent(s): DAVIES COLLISON CAVE PTY LTD; SIM AND MCBURNEY; RICHES MCKENZIE AND HERBERT LLP; LECOMTE AND PARTNERS; DURAN CORRETJER SLP; ALTMAN DANIEL E; LUNDMARK DAVID C

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 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 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

2) Family number: 63859710 (US2016310000A)

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Title: **PHOROPTER** SYSTEM AND METHOD OF USE

Abstract: Source: US2016310000A [EN] **Phoropter** systems and methods of use are described were one variation of the portable **phoropter** system comprises a support frame configured to be worn or positioned into proximity to at least one eye of a subject with at least one lens assembly attached to the support frame. A proximal opening of the lens assembly may be positioned in proximity to at least one eye of the subject. The lens assembly generally comprises a spherical power lens having at least a first lens which is adjustable to correct a spherical power, an astigmatic power lens having at least a second lens which is adjustable to correct for astigmatism, and an aberrometric lens having at least a third lens which is adjustable to correct for aberrational wavefronts introduced by at least the spherical power lens and astigmatic power lens.

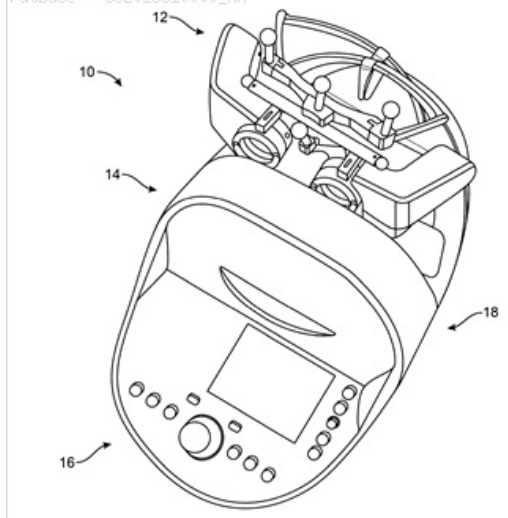
Classifications:

International (IPC 8-9): A61B3/00 A61B3/028 A61B3/04 A61B3/10 A61B3/12 (Advanced/Invention)

CPC: A61B3/04 A61B3/0075 A61B3/1015 A61B2560/0431 A61B3/0285 A61B3/1208

US: 351/227

PatBase - US2016310000_AA



Family:

Publication number	Publication date	Application number	Application date
EP3285636 A1	20180228	EP20160729386	20160421
US2016310000 AA	20161027	US20160135319	20160421
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Priority:

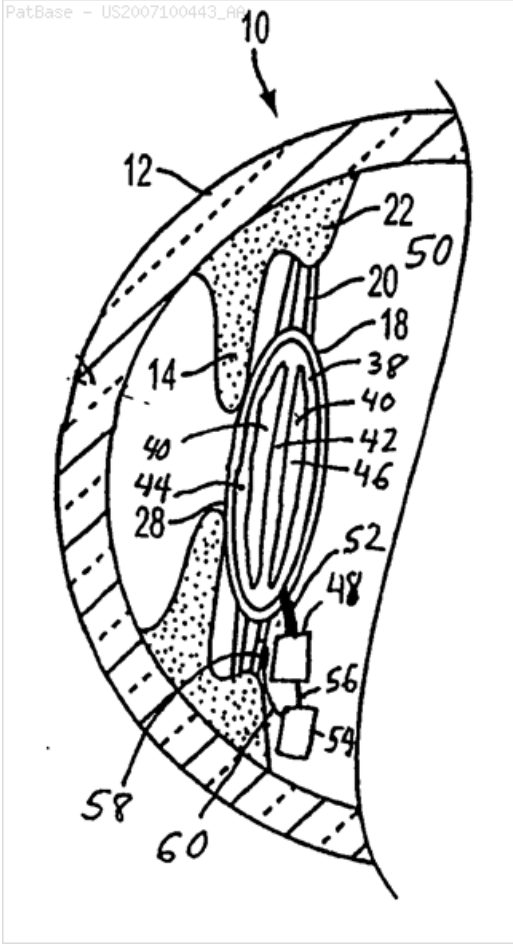
3) Family number: 34440777 (US2007100443A)

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Title: INTRAOCULAR LENS ADAPTED FOR ACCOMMODATION VIA ELECTRICAL SIGNALS

Abstract: Source: US2007100443A [EN] A lens system is provided. The lens system can include a lens adapted to be part of the optical pathway of an eye and a sensor. The sensor is adapted to sense a condition. The lens system also includes a control unit. The control unit is adapted to receive a signal from the sensor. The signal includes information about the condition. The control unit is operable to alter the shape of the lens based at least partly upon the condition. The lens can be adapted for positioning inside the capsular bag of the eye, in the posterior chamber of the eye, in place of the capsular bag of the eye or in the cornea. The sensor can be a tension sensor. The condition can be the amount of tension at the zonules of the eye. The control system can include a fluidic pressure generator and a fluid flow control device.

Classifications:
International (IPC 8-9): A61B1/00 A61B3/00 A61B3/02 A61B3/028 A61B3/10 A61B3/12 A61B3/14 A61F2/14 A61F2/16 G02B1/06 G02B26/00 G02B26/08 G02B3/14 G02B5/08 G02B5/10 G02B5/32 G02B7/28 G02C5/00 G02C7/02 G02C7/04 G02C7/08 G03B13/32 H04N5/232 (Advanced/Invention); A61F2/16 (Advanced/Non-invention); A61F2/16 G02C7/04 (Core/Invention); A61F2/16 (Core/Non-invention)
CPC: A61B3/0285 A61F2250/0001 G02B23/00 G02B26/005 A61F2002/1651 A61B1/0019 A61B3/12 A61B3/1225 A61F2/1648 A61F2/1651 G02B7/28 G02B26/0825 G02C7/04 G02C7/085 A61B3/1015 G02B5/32 G03B13/32 H04N5/23212 G02B26/004 A61F2/16 A61F2250/0002 A61F2/1627 A61F2/145 A61B3/103 A61F2/1635 G02B3/14
European: A61F2/16B4S G02B3/14
US: 1/1 348/345 351/159.07 351/159.070P 351/176 351/200 351/205 351/210 351/234 351/246 351/41 359/666 359/847 623/4.1 623/6.11 623/6.110P 623/6.13 623/6.130P 623/6.19 623/6.22 623/6.34 623/6.35 623/6.37 623/6.370S



Family:

Publication number	Publication date	Application number	Application date
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US2007142909 AA	20070621	US20060426224	20060623
US2012038883 AA	20120216	US20110165231	20110621
US2013182224 AA	20130718	US20130791665	20130308
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WO07051171 A2	20070503	WO2006US60315	20061027
WO07051171 A3	20071122	WO2006US60315	20061027

WO13096775 A1	20130627	WO2012US71255	20121221
WO13096775 A8	20130815	WO2012US71255	20121221

Priority:

US20050259781	20051027	US20060426224	20060623	US20110165231	20110621
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WO2012US71255	20121221	US20130793199	20130311	US20140461263	20140815
US20150942256	20151116	US20150180668P	20150617	US20170608745	20170530

Probable Assignee: PEYMAN GHOLAM A DR

Assignee(s): (std): ARIZONA BOARD OF REGENTS ON BEHALF OF UNIV OF ARIZONA ; MARKS RANDALL L ; MINU LLC ; PEYGHAMBARIAM NASSER N ; PEYMAN GHOLAM A ; UNIV ARIZONA ARIZONA BOARD OF REGENTS ON BEHALF OF ; UNIV ARIZONA STATE ; UNIV ARIZONA

Assignee(s): PEYMAN GHOLAM A DR ; OF ARIZONA ARIZONA BOARD OF REGENTS ON BEHALF OF UNIV ; MINU TELESYSTEMS LLC

Inventor(s): (std): MARKS RANDALL L ; PEYGHAMBARIAM NASSER N ; PEYGHAMBARIAN NASSER N ; PEYMAN GHOLAM A ; SAVIDIS NICKOLAOS ; SCHWIEGERLING JAMES T

Inventor(s): PEYMAN GHOLAM

Agent(s): BELL BOYD AND LLOYD LLP; WENDEROTH LIND AND PONACK LLP; WENDEROTH LIND AND PONACK L L P; GLOBAL IP COUNSELORS LLP; LAW OFFICE OF PATRICK F OREILLY III LLC; BARRY L; DAVIS WRIGHT TREMAINE LLP; HSUE JAMES S

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 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 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

4) Family number: 15290379 (US5963300A)

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Title: OCULAR BIOMETER

Abstract: Source: US5963300A [EN] An ocular biometer utilizing a light emitting source (7) and corresponding optics to illuminate areas of the eye in order to analyze the wavefront of the reflected light. Aperture sharing elements, such as "hot mirrors" (4) are used to allow the eyes (1) to view the world, as the ocular biometer measures various characteristics of the eye such as the refractive (i.e., accommodative) state, the gaze angle and the pupil diameter at any instant of time and continuously. Optical wavefront conditioning and wavefront sensing techniques are used to determine the refractive power of the eye and the instantaneous accommodative state. Reflected light is projected through a reticle (26) or plurality of reticles (26, 28). Spatial characteristics of the resulting shadow pattern uniquely determine the characteristics of the eye. These shadow patterns can be measured directly or by causing a modulation of the lines with a second identical reticle placed appropriately between the first and the imaging plane. The bright pupil and a Purkinje image may be used to compute the gaze angle (or, line-of-sight). A bright pupil on a dark background will provide the pupil diameter measurement. The ocular biometer can be configured in a binocular manner so that both eyes can be investigated simultaneously for strabismus, stereopsis and convergence measurements. The depth of modulation of the modulated shadow pattern provides an indication of the acuity of the ocular media and the retinal surface thus providing a means for screening such medical anomalies as diabetic retinopathy, glaucoma and cataracts.

Classifications:

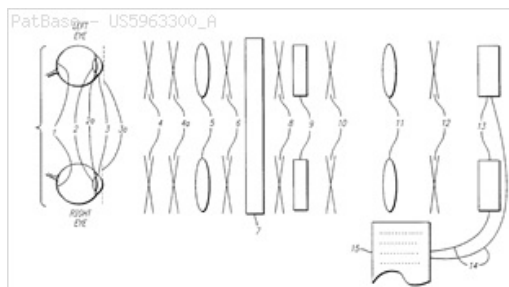
International (IPC 8-9): A61B3/10 A61B3/103 A61B3/107 A61B3/113 (Advanced/Invention); A61B3/028 (Advanced/Non-invention); A61B3/10 A61B3/103 A61B3/107 A61B3/113 (Core/Invention)

International (IPC 1-7): A61B3/028 A61B3/10 A61B3/103 A61B3/107 A61B3/113 A61B3/14

CPC: A61B3/1015 A61B3/112

European: A61B3/103 A61B3/10F A61B3/11D

US: 351/209 351/212



Family:

Publication number	Publication date	Application number	Application date
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AU199953222 A5	20010213	AU19990053222	19990727
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WO0106914 A1	20010201	WO1999US17045	19990727

Priority:

US19980024842	19980217	WO1999US17045	19990727
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Probable Assignee: NOVARTIS AG

Assignee(s): (std): AMT TECHNOLOGIES CORP ; HORWITZ LARRY S ; WAVETEC VISION SYSTEMS INC

Assignee(s): NOVARTIS AG ; AIR FORCE GOVERNMENT OF US DEPARTMENT OF ; AIR FORCE US GOV REPRESENTED BY DEPARTMENT OF AS ; ALCON RESEARCH LTD

Inventor(s): (std): HORWITZ LARRY ; HORWITZ LARRY S ; LARRY S HORWITZ

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SIM AND MCBURNEY; MCCARTHY DENIS ALEXIS

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

5) Family number: 68423097 (WO18022521A1)

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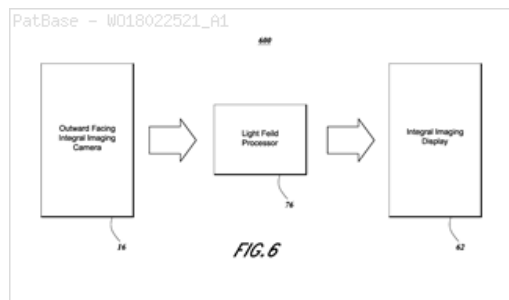
Title: LIGHT FIELD PROCESSOR SYSTEM

Abstract: A wearable ophthalmic device is disclosed. The device may include an outward facing head-mounted light field camera (e.g., 16) to receive light from a user's surroundings and to generate numerical light field image data. The device may also include a light field processor (e.g., 76) to access the numerical light field image data, to obtain an optical prescription for an eye of the user, and to computationally introduce an amount of positive or negative optical power to the numerical light field image data based on the optical prescription to generate modified numerical light field image data. The device may also include a head-mounted light field display (e.g., 62) to generate a physical light field corresponding to the modified numerical light field image data.

Classifications:

International (IPC 8-9): A61B3/00 A61B3/13 A61B3/14 G02B27/01 G02B7/28 G06F1/14 G06T13/40 H04N13/04 (Advanced/Invention)

CPC: A61B3/00 A61B3/0025 A61B3/028 A61B3/1015 A61B3/13 A61B3/14 G02B7/28 G02B27/01 G06F1/14 G06T13/40



Family:

Publication number	Publication date	Application number	Application date
WO18022521 A1	20180201	WO2017US43552	20170724

Priority:

US20160366524P 20160725 US20160440286P 20161229

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Inventor(s): (std): BAERENRODT ERIC ; HARRISES CHRISTOPHER M ; MACNAMARA JOHN GRAHAM ; ROBAINA NASTASJA U ; SAMEC NICOLE ELIZABETH

Agent(s): ALTMAN DANIEL E

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

6) Family number: 68581004 (US2018047395A)

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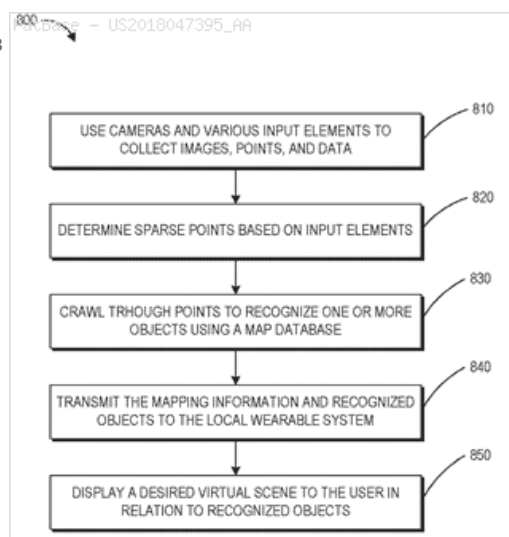
Title: WORD FLOW ANNOTATION

Abstract: Source: US2018047395A [EN] An augmented reality (AR) device can be configured to monitor ambient audio data. The AR device can detect speech in the ambient audio data, convert the detected speech into text, or detect keywords such as rare words in the speech. When a rare word is detected, the AR device can retrieve auxiliary information (e.g., a definition) related to the rare word from a public or private source. The AR device can display the auxiliary information for a user to help the user better understand the speech. The AR device may perform translation of foreign speech, may display text (or the translation) of a speaker's speech to the user, or display statistical or other information associated with the speech.

Classifications:

International (IPC 8-9): G06F17/24 G06F17/28 G06K9/00 G10L15/18 G10L15/183 G10L15/26 G10L25/84 H04N7/15 (Advanced/Invention)

CPC: G10L15/265 G10L25/84 G06F17/241 G06K9/00671 G10L15/1815 G06F17/289 H04N7/157 G10L2015/088



Family:

Publication number	Publication date	Application number	Application date
US2018047395 AA	20180215	US20170673894	20170810
WO18031745 A1	20180215	WO2017US46251	20170810

Priority:

US20160374183P 20160812 US20170673894 20170810

Probable Assignee: MAGIC LEAP INC

Assignee(s): (std): MAGIC LEAP INC

Inventor(s): (std): DEVINE JENNIFER M R ; KAEHLER ADRIAN ; SEUCK JOSEPH WAYNE ; SOMMERS JEFFREY

Inventor(s): DEVINE JENNIFER MR

Agent(s): ALTMAN DANIEL E

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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

7) Family number: 30539491 (US6149272A)

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Title: Arrangement for projecting a two-dimensional image onto an eye to be examined for use with a device that performs a subjective determination of refraction and/or a device that performs other vision functions

Abstract: Source: US6149272A [EN] An arrangement for use with a device that determines subjective refraction and/or performs other visual functions, comprises at least one light source, at least one light modulator for modulating the light source to produce modulated light, a driving unit for controlling said modulator to modulate the light source in accordance with video information corresponding to a video image, a two-dimensional deflector for deflecting the modulated light to produce a two-dimensional image, an optical transmitter for optically transmitting the light of the light source, and an optical projector for optically projecting the two-dimensional image onto a retina of an eye to be examined.

Classifications:

International (IPC 8-9): A61B3/02 A61B3/10 A61B3/113

G02B27/02 (Advanced/Invention);

A61B3/028 A61B3/04 A61B3/103 (Advanced/Non-invention);

A61B3/113 (Core/Invention)

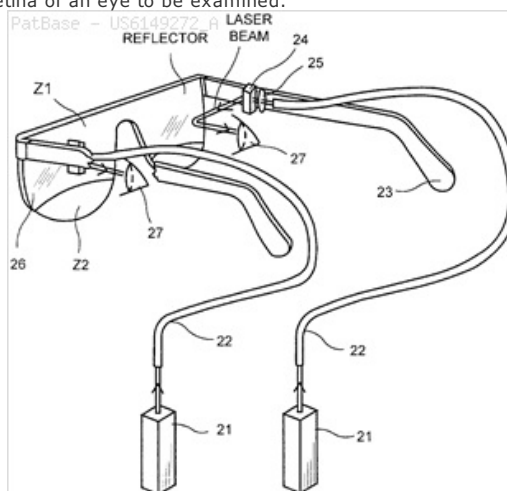
International (IPC 1-7): A61B3/02 A61B3/04 A61B3/10 A61B3/113

G02B27/02

CPC: A61B3/02 A61B3/028 A61B3/04 A61B3/103

European: A61B3/02 K61B3/028 K61B3/04 K61B3/103

US: 351/205 351/211 351/221



Family:

Publication number	Publication date	Application number	Application date
DE19704197 A1	19980806	DE19971004197	19970205
JP10272098 A2	19981013	JP19980037985	19980205
US6149272 A	20001121	US19970880076	19970620
US6325513 BA	20011204	US20000658319	20000908

Priority:

DE19971004197 19970205 US19970880076 19970620 US20000658319 20000908

Probable Assignee: CARL ZEISS JENA GMBH

Assignee(s): (std): ZEISS CARL JENA GMBH

Assignee(s): CARL ZEISS JENA GMBH ; CARL ZEISS JENA GMBH 07745 JENA DE

Inventor(s): (std): BERGNER ROLAND ; BERGNER ROLAND DIPL PHYS ; VOIGT KLAUS DITMAR ; VOIGT KLAUS DITMAR DIPL ING

8) Family number: 57797036 (US2008218683A)

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Title: EYEGLASSES AND EYEGLASS FRAMES COMPRISING GLYCOL MODIFIED COPOLYESTERS

Abstract: Source: US2008218683A [EN] Disclosed herein are eyeglass frames and eyeglass frame kits made from a polymer composition comprising PCTG, and eyeglasses comprising a pair of lenses mounted on the eyeglass frames or eyeglass frame kits disclosed herein. The polymer composition disclosed herein may optionally comprise one or more additives such as colorants and fillers.

Classifications:

International (IPC 8-9): C08G63/40 C08L67/02 G02C1/00 G02C1/02

G02C5/00 G02C5/14 G02C5/18 G02C5/22 (Advanced/Invention);

C08G63/00 G02C1/00 G02C5/00 G02C5/14 (Core/Invention);

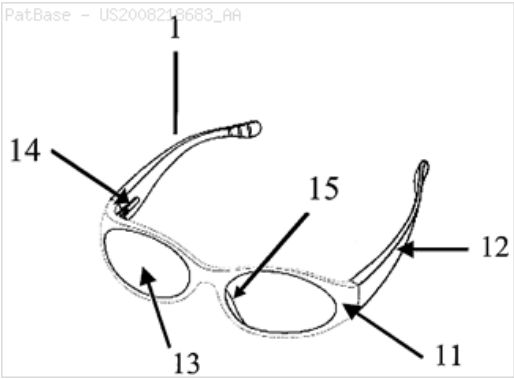
C08G G02C (Subclass/Invention)

CPC: C08L67/02 C08G63/199 C08L69/00 C08L77/00 G02C1/02

G02C5/008 G02C5/2218

European: C08L67/02 G02C1/02 G02C5/00D G02C5/22D

M08G63/199 M08L67/02 M08L69/00 M08L77/00



Family:

Publication number	Publication date	Application number	Application date
CN101711374 A	20100519	CN200880014018	20080307
CN101711374 B	20111102	CN200880014018	20080307
DE602008032254 D1	20140626	DE200860032254T	20080307
EP2126623 A1	20091202	EP20080714907	20080307
EP2126623 A4	20120418	EP20080714907	20080307
EP2126623 B1	20140514	EP20080714907	20080307
HK1141090 A1	20120831	HK20100107359	20100803
US2008218683 AA	20080911	US20080043965	20080307
US7753518 BB	20100713	US20080043965	20080307
WO08106868 A1	20080912	WO2008C00454	20080307

Priority:

EP20080714907	20080307	US20070905591P	20070308	US20080043965	20080307
US20080026468P	20080205	WO2008C00454	20080307	US20080026468	20080205

Probable Assignee: OKIA OPTICAL CO LTD

Assignee(s): (std): LAM YIN SANG ; OKIA OPTICAL CO LTD ; OKIA OPTICAL COMPANY LTD ; ZHANG YAN

Assignee(s): OKIA OPTICAL CO LTD KOWLOON ; OKIA OPTICAL CO

Inventor(s): (std): LAM YIN SANG ; SANG LAM YIN ; YAN ZHANG ; ZHANG YAN

Agent(s): BECKER KURIG STRAUS; JONES DAY; KAM W; SHENZHEN STANDARD PATENT AND TRADEMARK AGENT LTD

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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

9) Family number: 3499927 (WO9201417A1)

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Title: VISION MEASUREMENT AND CORRECTION

Abstract: Automated binocular vision measurement and correction measure the refractions of each eye, the topography of the cornea, and the holographic corneal depth. The computer (407) assesses the visual characteristics and performs optical optimization calculations to determine the optimal corneal shapes that would provide the person with precise vision capabilities. An optimal closed pattern trace of low power level laser energy induces the malaxation of the corneal tissue. Laser energy is delivered to a stromal target (806) in the cornea (805) between the epithelium and endothelium. Predetermined parameters are measured using a moire technique. Data representative of an input fringe pattern which includes signal information of the fringe and noise is filtered in a Fourier transform technique to remove noise and background. In conjunction, pattern normalization is used quantifying data from the pattern.

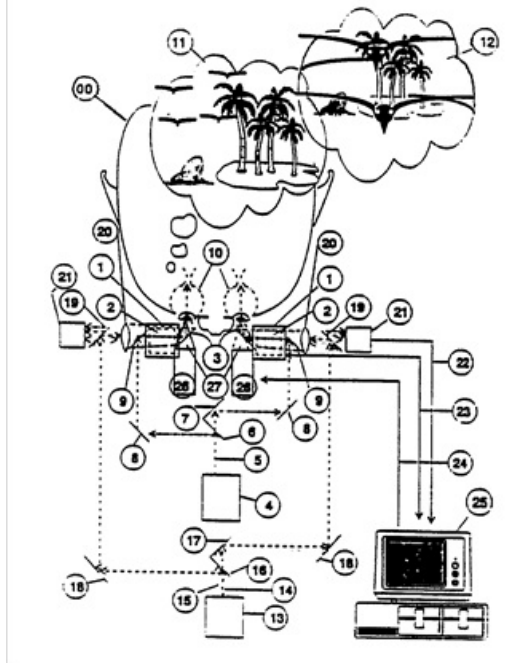
Classifications:

International (IPC 8-9): A61B3/10 A61B3/107 (Advanced/Invention);
A61B3/10 A61B3/113 (Advanced/Non-invention);
A61B3/10 A61B3/107 (Core/Invention);
A61B3/10 A61B3/113 (Core/Non-invention)

International (IPC 1-7): A61B3/10

CPC: A61B3/1015 A61B3/1005 A61B3/107 A61B3/113

European: A61B3/103 A61B3/107 A61B3/10F K61B3/10B
K61B3/113

**Family:**

Publication number	Publication date	Application number	Application date
AU199183136 A1	19920218	AU19910083136	19910715
WO9201417 A1	19920206	WO1991US04976	19910715

Priority:

US19900555235 19900719 WO1991US04976 19910715

Probable Assignee: HORWITZ LARRY S

Assignee(s): (std): HORWITZ LARRY S ; LARRY S HORWITZ

Inventor(s): (std): HORWITZ LARRY S

Inventor(s): LARRY S HORWITZ

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

10) Family number: 57351289 (WO15198023A1)

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Title: OCULAR SIMULATION TOOL

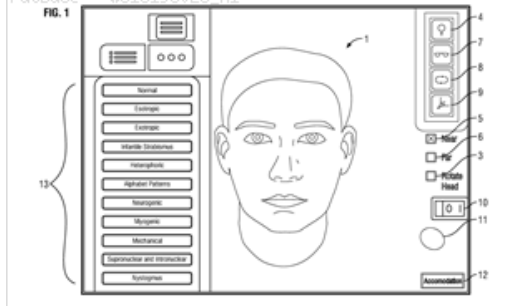
Abstract: The invention provides a medical training system comprising software arranged to reconfigure a virtual face or portion thereof in response to a user's movement in free space and in accordance with one or more symptoms relating to a predetermined ocular condition. The system further comprises motion sensing means arranged to detect the user's movement made in free space. Therefore, the user's gestures can be used to input commands via a hands-free input interface. The invention simulates one or more ocular conditions which are displayed on a screen. The user e.g. medical student is able to interact with the system via a variety of input means including movement in free space so as to produce a response on the virtual patient's face, the response being symptomatic of one or more ocular conditions. For example, the eyes may track the user's finger in a particular manner. The invention also provides a simulation tool for training users in respect of a corrective procedure, such as laser surgery.

Classifications:

International (IPC 8-9): G09B23/28 (Advanced/Invention)

CPC: G09B23/28

PatBase - WO15198023_A1

**Family:**

Publication number	Publication date	Application number	Application date
GB201411134 A0	20140806	GB20140011134	20140623
GB2527514 A1	20151230	GB20140011134	20140623
WO15198023 A1	20151230	WO2015GB51811	20150623

Priority:

GB20140011134 20140623

Probable Assignee: SWANSEA MEDICAL APPS LTD

Assignee(s): (std): SWANSEA MEDICAL APPS LTD ; SWANSEA MEDICAL APPS LTD

Inventor(s): (std): ANDERSON LUKE

Inventor(s): LUKE ANDERSON

Agent(s): JONES CERIAN

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