

Nicolas Vargas

Search history

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- Search 16 and microcontroller (Results 9)
17:
- Search [SP]: infrared photoretinoscope retinoscope utilizing a plurality of infrared light sources each positioned at a difference distance, or eccentricity, from the optical axis of a camera is disclosed. the plural light sources are scanned while the fundus reflex is observed. whether or not a reflex can be detected depends on the defocus of the eye relative to the camera, the pupil size, the eccentricity of the light source from the optical axis, and the camera-to-subject distance. the light sources are preferably light emitting diodes which are flashed repeatedly and sequentially. one-half of the camera aperture is occluded to permit determination of the amount and the direction of defocus. by noting which led just creates a crescent of light in the pupil, and by measuring the pupil diameter, the relative defocus of the eye is determined. (Results 0)
18:
- Search [SP]: what is claimed is: 1. apparatus for testing an eye of a subject, comprising: camera means for registering an image, said camera means having an optical axis a photoretinoscope housing mounted between said camera and a subject's eye, said housing including an opening generally coaxial with and surrounding said optical axis opaque shield means mounted on said housing, said shield means being generally semicircular to occlude at least one-half of said circular opening and having an edge defining an aperture for said camera, said edge of said shield means defining a chord across said circular opening a plurality of light sources aligned to form a linear array along a radial line passing through said optical axis, each light source being spaced at a different distance from said aperture edge, the distance between each light source and said edge defining a corresponding eccentricity of the light source with respect to said aperture edge, light from said light sources being directed toward a subject's eye scanning means for periodically and sequentially activating said light sources to produce short bursts of light to illuminate a subject's eye, said camera means registering the reflex image produced by the reflex action of the subject's eye for each light source and means for determining from the eccentricity of the light source producing each said reflex image the defocus of a subject's eye.2. the apparatus of claim 1, wherein said means for determining the defocus of a subject's eye includes means for recording the reflex image produced by a subject's eye for each light source and for recording the eccentricity of the light source producing each reflex image.3. the apparatus of claim 1, wherein said housing comprises a ring mountable on the lens tube of a camera.4. the apparatus of claim 1, wherein said light sources are infrared led devices mounted with their output surfaces between said shield and a subject's eye to direct illumination toward the eye.5. the apparatus of claim 1, wherein said light sources are fiber optic light guides mounted with their output ends between said shield and a subject's eye to direct illumination toward the eye.6. the apparatus of claim 1, wherein said housing is rotatable about said optical axis to rotate said linear array of light sources about said axis to direct light along different selected meridians of a subject's eye, eccentricities of said light sources with respect to said aperture edge, light from said light sources being directed parallel to said optical axis scanning means for periodically and sequentially activating said light sources to produce short bursts of light to illuminate a subject's eye, said camera means registering the reflex image produced by the reflex action of the subject's eye for each light source and means for determining from the eccentricity of the light source producing each said reflex image the defocus of a subject's eye.7. the apparatus of claim 1, wherein said camera is a video camera.8. apparatus for testing an eye of a subject, comprising: camera means for registering an image, said camera means having an optical axis a photoretinoscope housing mounted between said camera and a subject's eye, said housing surrounding said optical axis opaque shield means mounted in said housing, said shield means including an edge defining an aperture for said camera a plurality of light sources aligned to form a linear array along a radial line passing through said optical axis, each light source being spaced at a different distance from said aperture edge, the distance between each light source and said edge defining a corresponding eccentricity of the light source with respect to said aperture edge, light from said light sources being directed toward a subject's eye scanning means for periodically and sequentially activating said light sources to produce short bursts of light to illuminate a subject's eye, said camera means registering the reflex image produced by the reflex action of the subject's eye for each light source and means for displaying each said reflex image as it is produced by the subject's eye for each light source in said linear array to permit immediate evaluation of the defocus of the eye and for determining from the eccentricity of the light source producing each said reflex image the amount of defocus of the subject's eye.9. the aperture of claim 8, further including means directing light from said light sources toward both eyes of a subject whereby a reflex image is produced by each eye for each light source, said camera means registering the reflex images of both eyes simultaneously.10. the apparatus of claim 9, wherein said means for determining the defocus of a subject's eye includes means for concurrently displaying the reflex images of both eyes to permit evaluation of the relative defocus of the subject's eyes.11. the apparatus of claim 9, wherein said means for determining the defocus of a subject's eye further includes means for recording the reflex images produced by each light source and recording the eccentricity of the light source producing each reflex image, and further including means for determining, from the size of the recorded reflex images and from the eccentricity of the light source producing each reflex image, the degree of defocus of a subject's eyes.12. apparatus for testing an eye of a subject, comprising: camera means for registering an image, said camera means having an optical axis a photoretinoscope housing mounted between said camera and a subject's eye, said housing surrounding said optical axis opaque shield means mounted in said housing, said shield means including an edge

defining an aperture for said camera a plurality of light sources aligned to form a linear array along a radial line passing through said optical axis, each light source being spaced at a different distance from said aperture edge, the distance between each light source and said edge defining a corresponding eccentricity of the light source with respect to said aperture edge, light from said light sources being directed toward a subject's eye scanning means for periodically and sequentially activating said light sources to produce short bursts of light to illuminate a subject's eye, said camera means registering the reflex image produced by the reflex action of the subject's eye for each light source means for recording the reflex image produced by a subject's eye for each light source, and for recording the eccentricity of the light source producing said reflex image and means for determining from the eccentricity of the light source producing each said reflex image the defocus of a subject's eye.13. apparatus for testing an eye of a subject, comprising: camera means for registering an image, said camera means having an optical axis a photoretinoscope housing mounted between said camera and a subject's eye, said housing surrounding said optical axis opaque shield means mounted in said housing, said shield means including an edge defining an aperture for said camera a plurality of light sources aligned to form a linear array along a radial line passing through said optical axis, each light source being spaced at a different distance from said aperture edge, the distance between each light source and said edge defining a corresponding eccentricity of the light source with respect to said aperture edge, light from said light sources being directed toward a subject's eye scanning means for periodically and sequentially activating said light sources to produce short bursts of light to illuminate a subject's eye, said camera means registering the reflex image produced by the reflex action of the subject's eye for each light source and means for recording the reflex image produced by illumination of the subject's eye by each of said light sources means for producing the eccentricity of the light source producing said reflex image and means for determining the degree of defocus of the subject's eye from the sizes of the reflex images and the eccentricity of the corresponding light sources producing the images.14. the apparatus of claim 13, wherein said light sources are infrared sources mounted to direct illumination away from said shield and toward a subject's eye.15. the apparatus of claim 14, wherein said camera is a video camera, and wherein said housing is mountable on said camera.16. the apparatus of claim 15, further including means connected to said video camera for concurrently displaying the reflex images produced by a subject's eye as they are registered on said camera.17. apparatus for testing an eye, comprising: camera means for registering an image, said camera means having an optical axis a photoretinoscope housing comprising a circular ring mounted between said camera and a subject's eye, said housing being coaxial with said optical axis opaque shield means mounted in said housing, said shield means being generally annular to occlude the outer portion of said circular ring and including an edge defining a central aperture within said ring for said camera a plurality of light sources mounted in said housing, said light sources being aligned along a radial line passing through said optical axis, and being spaced at different distances from said aperture edge to define corresponding18. the apparatus of claim 17, wherein said plurality of light sources are aligned along a plurality of radial lines passing through said optical axis and spaced around said central aperture.19. the apparatus of claim (Results 35)

Search 19 and microcontroller (Results 1)
20:

Search FT=(retinoscope and microcontroller) (Results 5)
21:

1) Family number: 15903510 (US2003090631A)

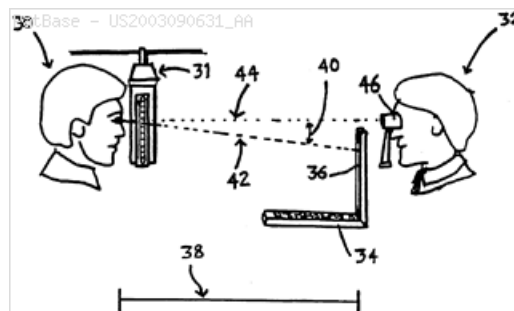
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Title: METHOD AND APPARATUS FOR TESTING THE VISION OF A VIDEO DISPLAY TERMINAL USER

Abstract: Source: US2003090631A This invention is a programmable vision testing apparatus and method for use in conducting optometric examinations of video display terminal (VDT) users. The apparatus uses a digital display screen accurately to represent a VDT used under actual work conditions. Further, a plurality of images can be displayed via the vision testing apparatus to provide a convenient and efficient way to test the eyes of VDT users with a wide variety of individual needs.

Classifications:

International (IPC 8-9): A61B3/032 A61B3/12 (Advanced/Invention);
A61B3/02 A61B3/12 (Core/Invention)
International (IPC 1-7): A61B3/00 A61B3/02 A61B3/032 A61B3/12
CPC: A61B3/032
European: A61B3/032 A61B3/12
US: 351/243



Family:

Publication number	Publication date	Application number	Application date
AU2001275162 AA	20011211	AU20010275162	20010531
AU200175162 A5	20011211	AU20010075162	20010531
US2003090631 AA	20030515	US20020329275	20021223
US6513931 BA	20030204	US20000585895	20000531
US6726327 B2	20040427	US20020329275	20021223
WO0191630 A2	20011206	WO2001US17907	20010531
WO0191630 A3	20020328	WO2001US17907	20010531

Priority:

US20000585895 20000531 US20020329275 20021223 WO2001US17907 20010531

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Assignee(s): ESSILOR INT ; ESSILOR INT SA

Inventor(s): (std): SQUIRE DAVID C ; TORREY JONATHAN G

Inventor(s): DAVID C SQUIRE ; JONATHAN G TORREY

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ 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 LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

2) Family number: 34294363 (US2006173985A)

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Title: ENHANCED SYNDICATION

Abstract: Source: US2006173985A A variety of tools and techniques are disclosed for managing, viewing, publishing,

searching, clustering, and otherwise manipulating data streams. Data streams such as RSS data feeds may be searched, aggregated, and filtered into a processed feed. The processed feed, along with rules used to process the feed may be shared in a number of ways. A data feed management system may provide an integrated user interface through which a user may manage feeds, including searching for new feeds, managing and filtering current feeds, modifying a user profile, and sharing feeds and feed configuration data with other users. A server may provide a complementary search engine to locate new feeds and to store and/or index items or posts in known feeds. Together, these technologies may provide a richly-functioned feed management system and greater ease of use for individuals in managing large numbers of feeds and large amounts of data in feeds. Additional functional layers may provide for authentication, security, and privacy, metadata creation and management, and social networking features. Using the management tools and additional functionality, a syndicated data stream system may provide a platform for a wide array of useful consumer and business applications.

Classifications:

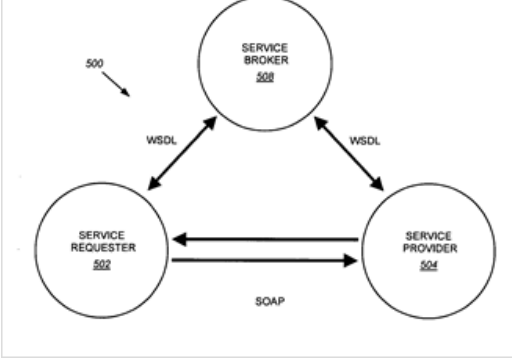
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CPC: F27B5/04 F27B17/0025 F27D99/0006 G06Q10/109 H04L67/26 G06F21/604 G06F19/321 H04W4/206 H04L63/1441 H04L63/0823 H04L63/08 G06Q30/0277 G06Q30/0273 G06Q30/02 G06Q10/10 G06Q50/24 G06F2221/2107 G06F21/6254 G06F21/6227 G06F21/602 H04L63/083 G06F2221/2145 G06F2221/2101 H04L12/66 H04L63/20 G06Q50/22 G06F21/6263 G06F19/328 G06F19/327 G06F19/325 H04L12/1859 H04L67/12 H04L67/00 H04L69/40 H04L67/1095 G06F17/30578 G06F17/30876 G06Q50/16 G06Q30/0201 G06F19/3456 H04L41/5045 H04L41/22 G06F8/36 H04L69/16 A61B8/565 A61B6/566 H04L67/16 H04L67/02 G06F19/3418 A61B5/0002 G06F19/322 G06F17/3089 G06F19/324 H04L67/2838 H04L67/2823 H04L67/28 H04L2209/60 H04L2209/56 H04L9/3226 G06Q30/0269 G06Q30/0264 H04L63/0428 G06F2221/2115 G06F21/31 H04L63/105 G06F19/3443 G06F19/3406 G06F19/326 G06F17/30923 G06F17/30867 G06F21/6245 G06Q10/00 G06F19/3487 G06Q50/00 G06Q40/04 G06Q30/0603 G06F17/30575

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US: 1/1 1/P 219/200 219/385 219/391 219/406 257/E21.190S 370/352 370/352S 370/401 370/401S 370/462 370/462P 438/592P 705/10 705/10P 705/10S 705/14 705/14.61 705/14.610P 705/14.66 705/14.660S 705/14.69 705/14.690P 705/14.73 705/14.730S 705/2 705/2P 705/2S 705/3 705/313 705/313S 705/3P 705/3S 705/4 705/50 705/50P 705/51 705/51P 705/7.29 705/7.290P 707/10 707/104.1 707/3 707/4 707/661 707/667 707/667P 707/707 707/791 707/795 707/796 707/802 707/822 707/828 707/999.003 707/999.003S 707/999.004 707/999.004S 707/999.01 707/999.010S 707/999.104 707/999.104S 707/999.107 707/999.107S 707/E17.005 707/E17.005S 707/E17.008 707/E17.008S 707/E17.014 707/E17.014S 707/E17.032 707/E17.032S 707/E17.044 707/E17.044S 707/E17.07 707/E17.070S 707/E17.112 707/E17.116 707/E17.116S 709/201 709/201P 709/201S 709/202 709/203 709/203P 709/204 709/204S 709/217 709/217P 709/219 709/223 709/223P 709/223S 709/246 709/246P 713/156 713/166 715/273 715/273S 726/1 726/1P 726/2 726/27 726/30 726/5 726/5S

PatBase - US2006173985_AA



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: NEWSILIKE MEDIA GROUP INC

Assignee(s): (std): APPLIED MATERIALS INC ; COOK ROBERT C ; LABOVITCH BELA A ; MOORE JAMES ; MOORE JAMES F ; NEWSILIKE MEDIA GROUP INC ; YUDOVSKY JOSEPH ; WOOD CHARLES B ; WOOD CHARLES ; NEWSILIKE MEDIA GROUP INC

Inventor(s): (std): LABOVITCH BELA A ; MOORE JAMES ; MOORE JAMES F ; WOOD CHARLES ; WOOD CHARLES B ; YUDOVSKY JOSEPH ; COOK ROBERT C

Inventor(s): LABOVITCH BELA ; COOK ROBERT

Agent(s): SMART AND BIGGAR; PETERREINS FRANK; STRATEGIC PATENTS PC; PATTERSON AND SHERIDAN LLP; FISH AND RICHARDSON PC; GTC LAW GROUP LLP AND AFFILIATES; CHARLES; JOHN A; NORTRUP JOHN

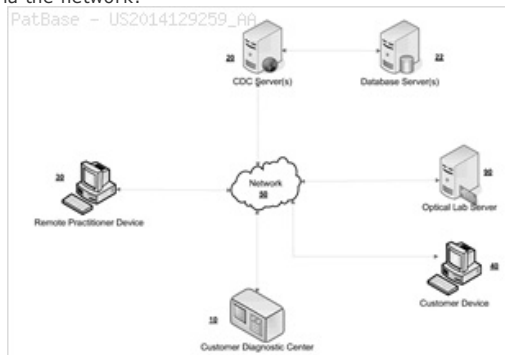
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Title: SYSTEMS AND METHODS FOR ENABLING CUSTOMERS TO OBTAIN VISION AND EYE HEALTH EXAMINATIONS

Abstract: Source: US2014129259A Systems and methods are provided for eye health and vision examinations. A customer diagnostic center is configured to generate customer examination data pertaining to an examination of a customer's eye. The customer diagnostic center provides a user interface for communicating with a customer and ophthalmic equipment for administering tests to the customer. A diagnostic center server is configured to receive the customer examination data from the customer diagnostic center over a network and allow the customer examination data to be accessed by an eye-care practitioner. A practitioner device associated with the eye-care practitioner is configured to receive the customer examination data from the diagnostic center server and display at least a portion of the customer examination data to the eye-care practitioner. Customer evaluation data is generated pertaining to the eye-care practitioner's evaluation of the customer examination data. An eye health report is provided to the customer via the network.

Classifications:

International (IPC 8-9): A61B A61B3/00 A61B3/10 A61B3/103
A61B3/12 G06F19/00 G06F3/048 G06Q50/22
G06Q50/24 (Advanced/Invention);
A61B (Subclass/Invention)
CPC: G06F19/3487 G06F19/3425 G06F19/345 G06F19/3418
US: 1/1 705/2 705/3



Family:

Publication number	Publication date	Application number	Application date
AU2013341741 AA	20140515	AU20130341741	20130426
CA2890564 AA	20150506	CA20132890564	20130426
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WO14074157 A1	20140515	WO2013US38508	20130426

Priority:

US20120723188P 20121106 US20130073812 20131106 WO2013US38508 20130426
US20150966463 20151211

Probable Assignee: 20 20 VISION CT LLC

Assignee(s): (std): 20 ; 20 20 VISION CENTER LLC ; 20 20 VISION CT LLC ; COHEN BOB ; SERIANI JOSEPH S

Inventor(s): (std): BOB COHEN ; COHEN BOB ; JOSEPH S SERIANI ; SERIANI JOSEPH S

Agent(s): SPRUSON AND FERGUSON; PIASETZKI NENNIGER KVAS LLP; FENNEL GARETH CHARLES; AOKI ATSUSHI; TSURUTA JUNICHI; BRYAN CAVE LLP; PAGANINI KEVIN

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 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 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

Title: A SYSTEM FOR CORRECTION OF REFRACTIVE ERRORS WITHOUT HUMAN INTERVENTION

Abstract: Source: IN00349MU2013A The present invention relates to a system for detecting refractive error in human eye and correcting it without any human intervention. The system is configured to produce an auto-tunable eyeglass, said system comprises of a calibration unit (101) for calculating the refractive error of the eye and a tunable lens system (102) configured to receive output from said calibration unit (101). The calibration unit further comprises of a Digital Signal Processor (104), light source in the form of LED/LD (105) along with LED/LD driver (106), Charge-coupled device (CCD) array (108), CCD interface (109), LED/LD and serial link communicator for communicating with the tunable lens system (102). The magnitude and polarity of correction required in the human eye is calculated by the calibration unit (101). The calculated magnitude and polarity of correction from the output of the DSP processor (104) is fed to the **microcontroller** (110) provided on the auto-tunable eyeglass. The **microcontroller** (110) then loads the magnitude and polarity of correction into the output compare register of its timer section. The **microcontroller** then generates a Pulse Width Modulation (PWM) waveform. The PWM waveform is applied to hydrogel of the tunable lens system (102). The applied PWM waveform drives the actuation mechanism, which in turn sets the power of a tunable lens system to a desired level to compensate for the refractive error and as a result, the focus of the lens changes.

Classifications:

International (IPC 8-9): A61F9/009 A61F9/01 A61F9/011 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN00349MU2013 A	20141114	IN2013MU00349	20130206

Probable Assignee: INDIAN INST OF TECHNOLOGY BOMBAY

Assignee(s): INDIAN INST OF TECHNOLOGY BOMBAY

Inventor(s): AJAY VIJAY SURYAVANSHI ; AMEY PRALHAD KULKARNI ; ANUPAM SHRIDHAR BAM ; BHUSHAN NAMDEORAO KHARBIKAR ; NITIN TUKURAM PAWAR ; PROF ROHIT SRIVASTAVA

5) Family number: 63591930 (US2016270656A)

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Title: METHODS AND SYSTEMS FOR DIAGNOSING AND TREATING HEALTH AILMENTS

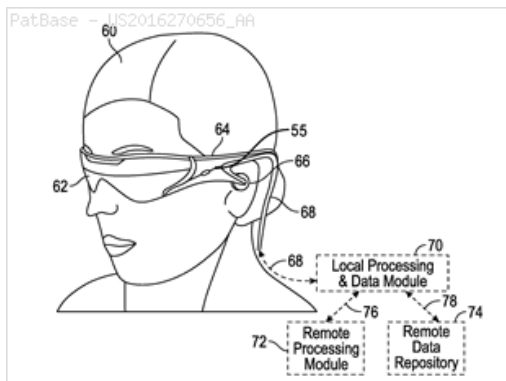
Abstract: Source: US2016270656A Configurations are disclosed for a health system to be used in various healthcare applications, e.g., for patient diagnostics, monitoring, and/or therapy. The health system may comprise a light generation module to transmit light or an image to a user, one or more sensors 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 A61B5/00 A61B5/01 A61B5/0476 A61B5/0496 A61B5/083 A61B5/145 A61B5/1455 A61B8/00 A61B8/08 A61B8/10 A61F7/00 A61F9/00 A61F9/008 A61H1/00 A61H5/00 A61M11/02 A61M21/02 A61N5/06 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

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Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: MAGIC LEAP INC

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

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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