

John

Search history

- Search 1: TAC=(MONOFOCAL~ AND OPHTHALMIC~ AND LENS~ AND SURFACE~ AND ANALYTICAL~ AND FUNCTION~ AND HYPERBOLIC~ AND EXPONENTIAL~ AND ASTIGMATISM~) (Results 1)
- Search 2: FT=(MONOFOCAL~ AND OPHTHALMIC~ AND LENS~ AND SURFACE~ AND ANALYTICAL~ AND FUNCTION~ AND HYPERBOLIC~ AND EXPONENTIAL~ AND ASTIGMATISM~) (Results 1)
- Search 3: FT=(MONOFOCAL~ AND OPHTHALMIC~ AND LENS~ AND SURFACE~ AND HYPERBOLIC~ AND EXPONENTIAL~ AND ASTIGMATISM~) (Results 2)
- Search 4: FT=(MONOFOCAL~ AND OPHTHALMIC~ AND LENS~ AND SURFACE~ AND ZERNIKE~ AND ASTIGMATISM~) (Results 34)

Title: JUNCTIONLESS OPHTHALMIC LENSES AND METHODS FOR MAKING SAME

Abstract: Source: US2004075807A Methods for producing a junctionless ophthalmic lens are provided. Additionally, ophthalmic lenses having junctionless, three dimensional surfaces, for example, asymmetrical anterior and/or posterior surfaces, as well as molding tools used in the production of such lenses, are also provided. The method generally include providing sample data points to define a surface contour, and interpolating between these data points using an algorithm to produce a simulated three dimensional surface. The simulated three dimensional surface is used in producing an ophthalmic lens, for example, in cast molding a contact lens.

Classifications:

International (IPC 8-9): A61B18/18 A61F2/16 A61F9/007 A61F9/01 B29C39/02 B29C39/44 B29D11/00 C08G77/16 G02B1/04 G02C7/04

G02C7/06 (Advanced/Invention);

B29L11/00 G02C7/04 (Advanced/Non-invention);

A61B18/18 (Core/Invention);

B29D11/00 G02C7/04 (Core/Non-invention);

G02C (Subclass/Invention)

International (IPC 1-7): A61B18/18 A61F2/16 A61F9/007 A61F9/01 B29C39/02 B29C39/44 B29D11/00 B29L11/00 G02C G02C0/00 G02C7/02 G02C7/04 G02C7/06

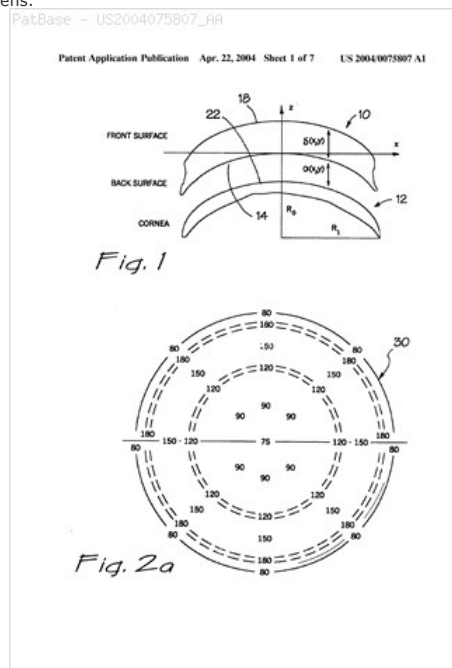
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US: 351/159 351/159.02 351/159.020P 351/159.38 351/159.380P 351/159.74 351/159S

351/160 351/160.00R 351/160H 351/160R 351/161 351/161S 351/168 351/168S

351/177



Family:

Publication number	Publication date	Application number	Application date
AU2001297634 AA	20020919	AU20010297634	20011107
BRPI0115268 A	20030812	BR2001PI15268	20011107
BRPI0412802 A	20060926	BR2004PI12802	20040608
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US2004075807 AA	20040422	US20030624086	20030721
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Priority:

US20000709132 20001110 WO2001US51242 20011107 US20030624086 20030721
 WO2004US18334 20040608 US20060421225 20060531

Probable Assignee: COOPERVISION INT HOLDING CO LP

Assignee(s): (std): BACK ARTHUR ; COOPER VISION INC ; COOPERVISION INT HOLDING CO LP ; OCULAR SCIENCES INC ; HO ARTHUR ; COOPERVISION INC

Assignee(s): COOPERVISION INT ; KEYBANK NATIONAL ASSOCIATION ; TCC ACQUISITION CORP ; COOPERVISION INTERNATIONAL HOLDING COMPANY LP ; COOPERVISION INTERNATIONAL HOLDING COMPANY LPGB ; COOPER VISION INTERNATIONAL HOLDING COMPANY LP

Inventor(s): (std): A BACK ; A HO ; ARTHUR BACK ; ARTHUR HO ; BACK ARTHUR ; HO ARTHUR

Inventor(s): HO ARTHUR BACK ARTHUR

Agent(s): BORDEN LADNER GERVAIS LLP; FRANK J UXA; STOUT UXA BUYAN AND MULLINS LLP; GREG S; FRANK J; STOUT UXA BUYAN AND MULLINS

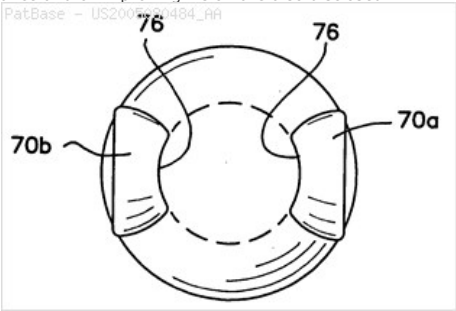
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Title: DEVICES AND METHODS FOR IMPROVING VISION

Abstract: Source: US2005080484A A corneal appliance that is placed over an eye has a lens body and epithelial cells secured over the lens body. The epithelial cells of the appliance may be derived from cultured cells, including stem cells, such as limbal stem cells, or epithelial cell lines, or may include at least a portion of the epithelium of the eye on which the appliance is placed. The corneal appliance may have a cellular attachment element between the lens body and the epithelial cells to facilitate attachment of the epithelial cells over the lens body. The corneal appliance is intended to be used on a deepithelialized eye, which may be an eye that has had the epithelium fully or partially removed. The corneal appliance may be used to improve vision. Methods of producing the corneal appliance and of improving vision are also disclosed.

Classifications:

International (IPC 8-9): A61F2/14 A61F9/00 A61F9/007 A61F9/013 A61L27/00 A61L27/38 (Advanced/Invention); A61F2/14 (Advanced/Non-invention)
International (IPC 1-7): A61F2/14 A61F9/007
CPC: Y10S623/906 A61L27/3813 A61F9/0017 A61F9/013 A61L27/3604 A61L27/3641 A61L27/3839 A61L27/3895 A61L2430/16 A61F2/1453
European: A61F2/14 A61F2/14E A61F9/00B2 A61F9/013 A61L27/36B A61L27/36F A61L27/38B4 A61L27/38D A61L27/38H K61L430/16
US: 623/5.11 623/5.110P 623/5.14 623/5.140P 623/5.16 623/5.160S 623/906



Family:

Publication number	Publication date	Application number	Application date
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US2006241751 AA	20061026	US20060427293	20060628
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Priority:
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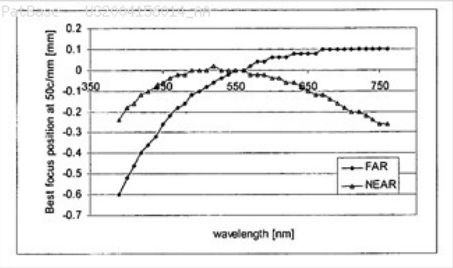
Probable Assignee: FORSIGHT LABS LLC

Assignee(s): (std): BACK ARTHUR ; COOPERVISION INC ; FORSIGHT LABS LLC ; OCULAR SCIENCES INC ; MARMO J C
Assignee(s): TCC ACQUISITION CORP ; KEYBANK NATIONAL ASSOCIATION ; MARMO CHRISTOPHER J
Inventor(s): (std): ARTHUR BACK ; BACK ARTHUR ; CHRISTOPHER J MARMO ; HOLLRIGEL GREG S ; MARMO CHRISTOPHER J ; MARMO J C ; MARMO J CHRISTOPHER ; ARTHUR MARMO J CHRISTOPHER BAC
Inventor(s): MARMO J CHRISTOPHER BACK ARTHUR ; MARMO J
Agent(s): BORDEN LADNER GERVAIS LLP; STOUT UXA BUYAN AND MULLINS LLP; FRANK J UXA; TOWNSEND AND TOWNSEND AND CREW LLP
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 CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Title: MULTIFOCAL OPHTHALMIC LENS

Abstract: Source: US2004156014A A method of designing a multifocal ophthalmic lens with one base focus and at least one additional focus, capable of reducing aberrations of the eye for at least one of the foci after its implantation, comprising the steps of: (i) characterizing at least one corneal surface as a mathematical model; (ii) calculating the resulting aberrations of said corneal surface(s) by employing said mathematical model; (iii) modelling the multifocal ophthalmic lens such that a wavefront arriving from an optical system comprising said lens and said at least one corneal surface obtains reduced aberrations for at least one of the foci. There is also disclosed a method of selecting a multifocal intraocular lens, a method of designing a multifocal ophthalmic lens based on corneal data from a group of patients, and a multifocal ophthalmic lens.

Classifications:
International (IPC 8-9): A61B3/10 A61F2/14 A61F2/16 A61L27/00 G01J9/00 G02B5/18 G02C13/00 G02C7/02 G02C7/04 G02C7/06 (Advanced/Invention)
International (IPC 1-7): A61F2/14 A61F2/16 G01J9/00 G02B5/18 G02C7/02 G02C7/04 G02C7/06
CPC: G02C7/042 G02C7/044 A61F2/1637 A61F2240/001 A61F2/164 G02C7/041 A61B3/0025 A61F2/1618 A61F2/1654 G01J9/00 G02C7/028 G02C7/06 G02C2202/20 G02C2202/22 A61F2002/164 A61F2240/002
European: A61B3/00C1 A61F2/16 A61F2/16B A61F2/16B10 A61F2/16B2F G01J9/00 G02C7/02D6 G02C7/04B G02C7/04B2 G02C7/04B6 G02C7/06 K61F2/16B2F K61F2/16B6 K61F2/16B6A K61F240/00M S02C202/20 S02C202/22
US: 351/159 351/159.05 351/159.050P 351/159.41 351/159.410P 351/159.410S 351/159.74 351/159.79 351/159.790P 351/159S 351/161 351/161P 351/164 351/168 351/168P 351/177 351/177P 623/6.11 623/6.24 623/6.27 623/6.3 623/6.300P



Family:

Publication number	Publication date	Application number	Application date
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Priority:			
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Probable Assignee: AMO GRONINGEN BV

Assignee(s): (std): ADVANCED MEDICAL OPTICS INC ; AMO GRONINGEN B V ; AMO GRONINGEN BV ; PHARMACIA GRONINGEN BV ; PIERS PATRICIA ANN ; NORRBY SVERKER ; PHARMACIA GRONINGEN B V ; WEEBER HENDRIK A ; PIERS PATRICIA A ; WEEBER HENDRIK ALBERT

Assignee(s): BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; BANK OF AMERICA NA

Inventor(s): (std): HENDRIK ALBERT WEEBER ; NORRBY SVERKER ; PATRICIA ANN PIERS ; SVERKER NORRBY ; WEEBER ALBERT HENDRIK ; WEEBER HENDRIK A ; WEEBER HENDRIK A ; WEEBER HENDRIK ALBELT ; WEEBER HENDRIK ALBERT ; PIERS PATRICIA A ; PIERS PATRICIA ANN

Inventor(s): WEEBER HENDRIK ; PIERS PATRICIA

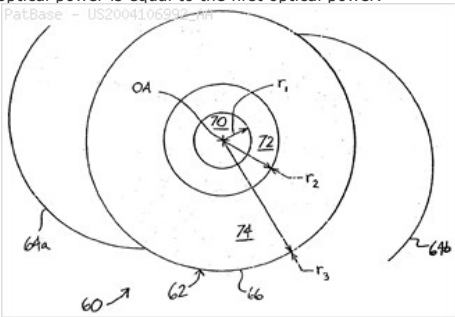
Agent(s): DAVIES COLLISON CAVE; GOWLING LAFLEUR HENDERSON LLP; ROSENQUIST PER OLOF ET AL; HOLMBERG MARTIN TOR; ADVANCED MEDICAL OPTICS INC; NEIFELD IP LAW PC; ABBOTT MEDICAL OPTICS INC; AMO GRONINGEN BV

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

Title: MULTI-ZONAL MONOFOCAL INTRAOCULAR LENS FOR CORRECTING OPTICAL ABERRATIONS

Abstract: Source: US2004106992A A multi-zonal monofocal ophthalmic lens comprises an inner zone, an intermediate zone, and an outer zone. The inner zone has a first optical power. The intermediate zone surrounds the inner zone and has a second optical power that is different from the first power by a magnitude that is less than at least about 0.75 Diopter. The outer zone surrounds the intermediate zone and has a third optical power different from the second optical power. In certain embodiments, the third optical power is equal to the first optical power.

Classifications:
International (IPC 8-9): A61F2/16 A61F9/007 G02C7/02 (Advanced/Invention); A61F2/16 (Core/Invention)
International (IPC 1-7): A61F2/16
CPC: A61F2/1618 A61F2/1637
European: A61F2/16B2F K61F2/16B6
US: 623/6.23 623/6.230P 623/6.24 623/6.28 623/6.280P 623/6.31 623/6.310S 623/901 623/901S



Family:

Publication number	Publication date	Application number	Application date
AT480201 E	20100915	AT20040800995T	20041110
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Priority:
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Probable Assignee: ABBOTT MEDICAL OPTICS INC

Assignee(s): (std): ABBOTT MEDICAL OPTICS INC ; ADVANCED MEDICAL OPTICS INC ; LANG ALAN J ; ZHAO HUAWEI
Assignee(s): BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; ADVANCED MEDICAL OPTICS
Inventor(s): (std): ALAN J LANG ; HUAWEI ZHAO ; LANG ALAN J ; ZHAO HUAWEI ; LANG ALAN
Agent(s): DAVIES COLLISON CAVE; GOWLING LAFLEUR HENDERSON LLP; HOFFMANN EITL; ADVANCED MEDICAL OPTICS INC; ABBOTT MEDICAL OPTICS INC

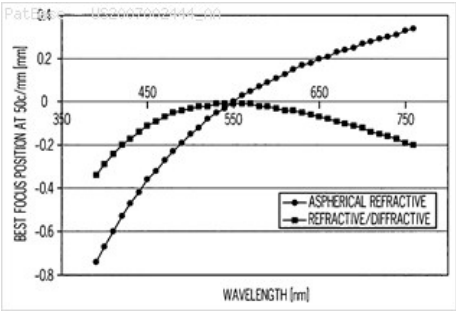
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Title: OPHTHALMIC LENSES CAPABLE OF REDUCING CHROMATIC ABERRATION

Abstract: Source: US2007002444A A method of designing an aspheric ophthalmic lens with both refractive and diffractive powers that is capable of reducing chromatic aberration and at least one monochromatic aberration of an eye comprises combining aspherical refractive and diffractive surfaces, selecting an appropriate eye model, establishing a design lens having at least one aspheric surface with a capacity to reduce monochromatic aberration in said eye model, establishing a diffractive lens element that corrects for chromatic aberration of the model eye; and adjusting the lens surface design in order to obtain a suitably high polychromatic image quality in a form that is weighted to comply with a spectral merit function.

Classifications:

International (IPC 8-9): A61F2/16 G02B27/00 G02B27/44 G02B3/04 G02B5/18 G02C7/02 G02C7/04 G02C7/10 (Advanced/Invention); A61F2/16 G02B27/00 G02B27/42 G02B3/02 G02B5/18 G02C7/00 G02C7/02 G02C7/04 (Core/Invention)
International (IPC 1-7): A61F2/16 G02B27/00 G02B5/18 G02C7/02
CPC: G02C2202/20 G02C7/02 A61F2/16 A61F2/1613 G02B3/04 G02B5/1814 G02B27/0012 G02B27/0037 G02B27/4211 G02C7/027 G02C7/028 G02C2202/22
European: A61F2/16 A61F2/16B G02B27/00D G02B27/00K2 G02B27/42A1 G02B3/04 G02C7/02 G02C7/02D4 G02C7/02D6 G02C7/10 S02B5/18E
US: 351/159 351/159.74 351/175 351/177 359/565 359/565P 623/6.3 623/6.31



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US20040559472P 20040405 US20050099342 20050405 WO2005US11701 20050405
US20050559472P 20050405

Probable Assignee: AMO GRONINGEN

Assignee(s): (std): AMO GRONINGEN B V ; PIERS PATRICIA ; WEEBER HENK ; PIERS PATRICIA ANN ; AMO GRONINGEN BV ; ADVANCED MEDICAL OPTICS INC

Assignee(s): ADVANCED MEDICAL OPTICS INC1700 E. ST. ANDREW PLACESANTA ANACA92705US ; AMO GRONINGEN ; AMO GRONINGEN BVVAN SWIETENLAAN 5NL-9728 NXGRONINGENNL

Inventor(s): (std): WEEBER HENK ; PIERS PATRICIA ANN ; PIERS PATRICIA ; PIERS ANN PATRICIA

Inventor(s): PATRICIA ANN PIERS ; HENK WEEBER ; ANN PATRICIA PIERS ; PIERS PATRICIA ANNNL ; WEEBER HENKNL

Agent(s): HOFFMANN EITLE; ADVANCED MEDICAL OPTICS INC

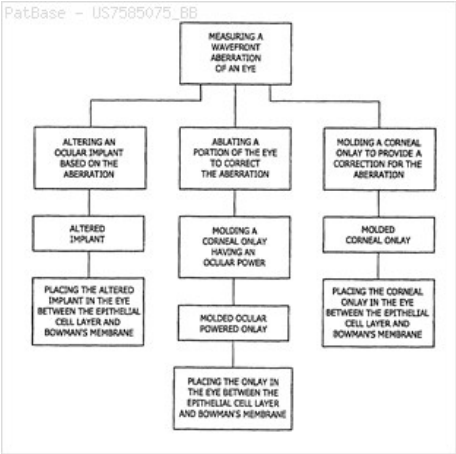
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Title: CORNEAL ONLAYS AND WAVEFRONT ABERRATION CORRECTION TO ENHANCE VISION

Abstract: Source: US2005259221A Devices and methods for improving vision are described. The vision of a person can be corrected using a corneal onlay or a lens positioned between an epithelial cell layer and Bowman's membrane of the person's eye. Wavefront aberrations are measured for the person's eye or eyes, and the aberrations are used to shape the corneal onlay to provide a desired vision correction power, or to shape the person's cornea.

Classifications:

International (IPC 8-9): A61B3/00 A61B3/10 A61B3/125 A61F2/14 A61F9/007 B29D11/02 G02C7/04 (Advanced/Invention); A61B3/00 G02C7/04 (Advanced/Non-invention); A61F9/007 G02C7/00 (Core/Invention)
International (IPC 1-7): A61F2/14 G02C7/04
CPC: A61B3/1015 A61F2/14 B29D11/023 G02C7/04
European: A61B3/10F A61F2/14 B29D11/02B G02C7/04
US: 351/159.74 351/159.740P 351/160.00R 351/160R 351/205 351/219 351/219P 351/246



Family:

Publication number	Publication date	Application number	Application date
BRPI0511339 A	20071204	BR2005PI11339	20050513
CA2566961 AA	20061115	CA20052566961	20050513
CN1972643 A	20070530	CN200580016249	20050513
EP1771131 A2	20070411	EP20050748326	20050513
HK1102754 A3	20071207	HK20070111239	20071018
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JP2007537829 T2	20071227	JP20070527312T	20050513
KR20070055422 A	20070530	KR20067026706	20061219
MXPA06013343 A1	20070508	MX2006PA13343	20061117
TW200606484 A	20060216	TW20050116501	20050520
US2005259221 AA	20051124	US20050128824	20050513
US2008024723 AA	20080131	US20070881727	20070727
US7585075 BB	20090908	US20070881727	20070727
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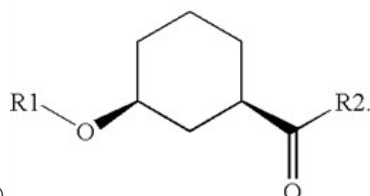
Priority:
US20040573657P 20040520 WO2005US16745 20050513 US20050128824 20050513
US20070881727 20070727

Probable Assignee: FORSIGHT LABS LLC
Assignee(s): (std): COOPERVISION INC ; COOPERVISION INT HOLDINGS ; COOPERVISION INTERNAT HOLDINGS ; MARMO J CHRISTOPHER ; FORSIGHT LABS LLC
Assignee(s): COOPERVISION INTERNATIONAL HOLDINGS LP ; COOPERVISION INT HOLDINGS LP ; COOPER VISION INC
Inventor(s): (std): MARMO J C ; MARMO J CHRISTOPHER
Inventor(s): J CHRISTOPHER MARMO ; MARMO CHRISTOPHER J ; MARMO J
Agent(s): BORDEN LADNER GERVAIS LLP; STOUT UXA BUYAN AND MULLINS LLP; FRANK J UXA; TOWNSEND AND TOWNSEND AND CREW LLP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: METHOD FOR THE PREPARATION OF ENANTIOMER FORMS OF CIS-CONFIGURED 3-HYDROXYCYCLOHEXANE CARBOXYLIC ACID DERIVATIVES USING HYDROLASES

Abstract: Source: US2007197788A The present invention relates to a process for preparing chiral non-racemic cis-configured cyclohexanols or

(I)



cyclohexanol derivatives of the formula (I)

configured hydroxyl-cyclohexane carboxylic acid derivatives of formula (I) are central building blocks or immediate precursors for the medicinally active compounds which allow a therapeutic modulation of the lipid and/or carbohydrate metabolism and are thus suitable for preventing and/or treating type II diabetes, hyperglycemia and atherosclerosis. The cis-configured hydroxyl-cyclohexane carboxylic acid derivatives of formula (I) are central building blocks or immediate precursors for the medicinally active compounds described in the prior art.

Classifications:

International (IPC 8-9): A61P3/06 A61P3/10 A61P9/10 C07C403/00 C07D263/02 C07D263/32 C07D413/02 C07F7/02 C12P13/02 C12P17/00 C12P17/14 C12P41/00 C12P7/24 C12P7/62 (Advanced/Invention); A61K31/421 (Advanced/Non-invention); C07C403/00 C07D413/00 C07F7/00 C12P13/00 C12P17/00 C12P17/14 C12P41/00 C12P7/00 C12P7/24 C12P7/62 (Core/Invention); C12P (Subclass/Invention)

International (IPC 1-7): C12P17/00 C12P41/00 C12P7/24

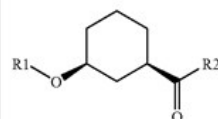
CPC: C12P7/00 C12P17/00 C12P41/004

European: C12P17/00 C12P41/00C2 C12P7/00

US: 546/14 546/271.4 548/215

PatBase - US2007197788_AA

(I)



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE200410038403 20040807 WO2005EP08058 20050723

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Assignee(s): (std): AVENTIS PHARMA GMBH ; HOLLA WOLFGANG ; KEIL STEFANIE ; SANOFI AVENTIS DEUTSCHLAND ; SANOFI AVENTIS DEUTSCHLAND GMB ; TAPPERTZHOFEN CHRISTOPH

Assignee(s): SANOFI AVENTIS DEUTSCHLAND GMBH ; AVENTIS PHARMA DEUTSCHLAND GMBH

Inventor(s): (std): CHRISTOPH HOLLA WOLFGANG KEIL ; HOLLA DR WOLFGANG ; KEIL DR STEFANIE ; TAPPERTZHOFEN DR CHRISTOPH ; TAPPERTZHOFEN CHRISTOPH ; KEIL STEFANIE ; HOLLA WOLFGANG

Inventor(s): WOLFGANG HOLLA ; STEFANIE KEIL ; HOLLA WOLFGANG KEIL STEFANIE TAPPERTZHOFEN ; HOLLA WOLFGANG KEIL STEFANIE TAPPERTZHOFEN CHRISTO ; CHRISTOPH TAPPERTZHOFEN ; DR CHRISTOPH TAPPERTZHOFEN ; DR STEFANIE KEIL ; DR WOLFGANG HOLLA

Agent(s): ROSS J OEHLER SANOFI AVENTIS US LLC

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

Title: METHOD FOR DEFINING A SUPPLEMENTARY FACE FOR SPECTACLES

Abstract: Source: US2008013038A A method for defining a supplementary face for spectacles (or clip-on), comprising the steps of: i) choice of a lens suited to the wearer's prescription; ii) modelization of the position of the chosen lens and of the position of a supplementary face in front of the chosen lens; iii) choice of an optical function for the assembly of the chosen lens and supplementary face; iv) calculation of the characteristics of the supplementary face by optical optimization for a standard wearer, using the chosen optical function as optimization target. A supplementary face for spectacles, having: i) a detachable mounting device, suited to the detachable mounting of the supplementary face in front of a lens mounted in the spectacles; ii) a surface at least equal to the surface of the lens and iii) a continuous optical power variation over this surface.

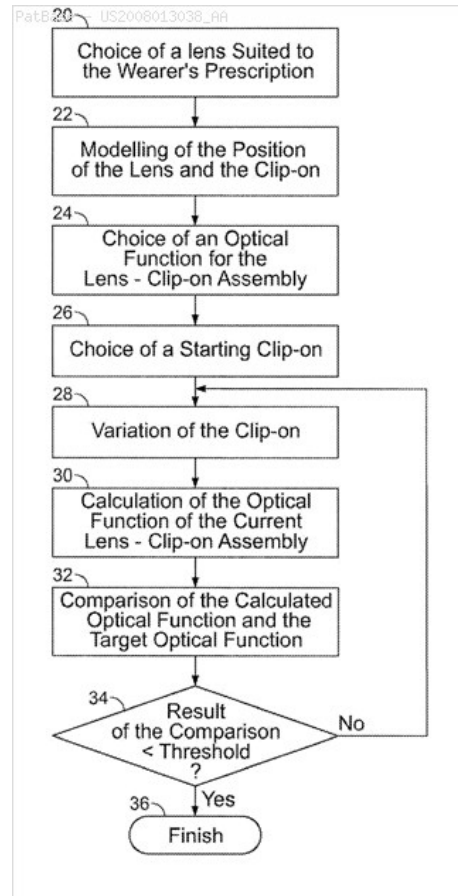
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CPC: G02C7/024 G02C7/025 G02C7/061 G02C7/086

European: G02C7/02D G02C7/02D2 G02C7/06P G02C7/08N

US: 351/159.41 351/169 351/178 351/47 351/47P 351/57



Family:

Publication number	Publication date	Application number	Application date
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CA2595422 AA	20070719	CA20062595422	20060207
CN101116024 A	20080130	CN200680004295	20060207
EP1851582 A1	20071107	EP20060709264	20060207
FR2881846 A1	20060811	FR20050001245	20050208
FR2881846 B1	20070511	FR20050001245	20050208
JP2008530588 T2	20080807	JP20070553662T	20060207
KR20070100900 A	20071012	KR20077019273	20070823
US2008013038 AA	20080117	US20070779908	20070719
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WO06084986 A1	20060817	WO2006FR00276	20060207

Priority:

FR20050001245 20050208 WO2006FR00276 20060207 US20070779908 20070719

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT ; GUILLOUX CYRIL

Assignee(s): ESSILOR INT COMP GENERALE D OPTIQU ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D'... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL CIE GENERALE D OPTIQUE SOCIETE PAR ACTIONS SIMPLIFIEE ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT CIE GENERALE D OPTIQUE SOC PAR ACTION ; ESSILOR INT CIE GENERALE D OPTIQUE SOCIE ; ESSILOR INT COMP GEN D OPTIQUE

Inventor(s): (std): CYRIL GUILLOUX ; GUILLOUX CYRIL

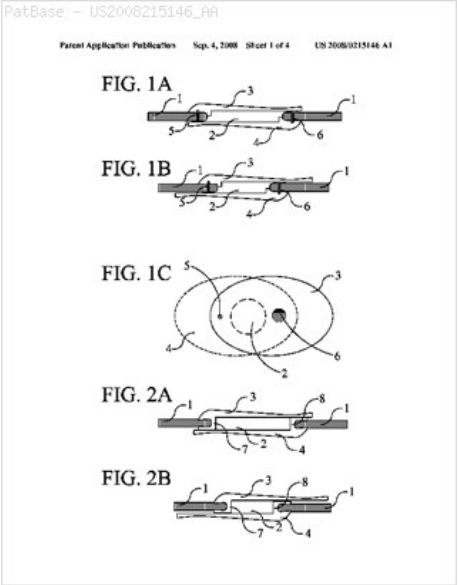
Agent(s): FISH AND RICHARDSON PC; HENSLEY KIM AND HOLZER LLC

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

Title: Intra-Ocular Artificial Lens for Iris-Driven Accommodation

Abstract: Source: US2008215146A An intra-ocular artificial lens with variable optical strength, wherein the artificial lens comprises two optical elements which are movable relative to each other in a direction extending transversely of the optical axis, wherein the optical elements have a form such that in different relative positions they together have different optical strengths, wherein the movable optical elements are connected to positioning means which are adapted for coupling to the iris of the eye for the purpose of driving. This measure makes use of the fact that one or both of the optical elements can be displaced relative to each other through the driving of the natural orbicularis muscle of the iris in order to obtain an accommodating function.

Classifications:
International (IPC 8-9): A61F2/16 G02C7/02 G02C7/08 (Advanced/Invention); A61F2/16 G02C7/02 (Core/Invention)
International (IPC 1-7): A61F2/16
CPC: A61F2/1632 A61F2/1613 A61F2/1648 A61F2/1616
European: A61F2/16B2 A61F2/16B4R A61F2/16B8
US: 623/6.11 623/6.110S 623/6.2 623/6.200S 623/6.32 623/6.320P 623/6.33 623/6.37 623/6.370P



Family:

Publication number	Publication date	Application number	Application date
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NL1029548 C2	20070119	NL20051029548	20050718
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US8603167 BB	20131210	US20060914260	20060511
US8690942 BB	20140408	US20060914276	20060511
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Priority:
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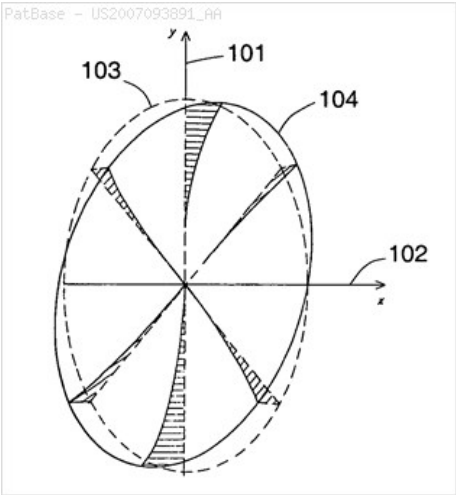
Probable Assignee: AKKOLENS INT BV
Assignee(s): (std): AKKOLENS INT BV ; AKKOLENS INTERNAT B V ; ROMBACH MICHEL CHRISTIAAN
Assignee(s): AKKOLENS INT ; AKKOLENS INTERNATIONAL B V
Inventor(s): (std): CHRISTIAAN ROMBACH MICHEL ; ROMBACH MICHEL CHRISTIAAN
Inventor(s): MICHEL CHRISTIAAN ROMBACH ; ROMBACH MICHEL
Agent(s): EVELEENS MAARSE PIETER; POWELL GOLDSTEIN LLP; JASON A; BARNES AND THORNBURG LLP
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: INTRAOCULAR LENS FOR CORRECTING CORNEAL COMA

Abstract: Source: US2007093891A When fitting a patient for an intraocular lens, a series of measurements is taken on the patient's eye that determines a required lens power. Next, a range of preferred shape factors may be found, which determine the base (i.e., spherical) radii of the two lens surfaces, essentially independent of the lens power. The preferred shape factor adjusts the third-order coma of the lens to largely offset the coma of the cornea, so that the image at the retina has a reduced amount of third-order coma. Once a preferred shape factor is determined, the base radii of curvature of the anterior and posterior surfaces are determined from the shape factor and the lens power by algebraic formulas. Finally, one or more aspheric terms are added to one or both of the surfaces in the lens, so that the spherical aberration of the lens largely offsets the spherical aberration of the cornea.

Classifications:

International (IPC 8-9): A61B3/00 A61F2/16 A61F9/013
G02C7/04 (Advanced/Invention);
A61F2/16 A61F9/007 G02C7/04 (Core/Invention)
CPC: A61B3/0025 A61F2/1613
European: A61B3/00C1 A61F2/16B K61B3/107 K61B3/10B
US: 351/159.2 351/159.200P 351/159.53 351/159.530S 351/177 351/177S 623/6.11 623/6.23



Family:

Publication number	Publication date	Application number	Application date
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AU2006308099 BB	20130704	AU20060308099	20061026
CA2627666 AA	20070503	CA20062627666	20061026
EP1940318 A1	20080709	EP20060806569	20061026
US2007093891 AA	20070426	US20050260013	20051026
US8801781 BB	20140812	US20050260013	20051026
WO07048615 A1	20070503	WO2006EP10346	20061026

Priority:

US20050260013 20051026 WO2006EP10346 20061026

Probable Assignee: ADVANCED MEDICAL OPTICS INC

Assignee(s): (std): AMO GRONINGEN B V ; AMO GRONINGEN BV ; ARTAL PABLO ; PIERS PATRICIA ; TABERNERO JUAN ; ABBOTT MEDICAL OPTICS INC

Assignee(s): ADVANCED MEDICAL OPTICS INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS

Inventor(s): (std): ARTAL PABLO ; PIERS PATRICIA ; TABERNERO JUAN

Inventor(s): JUAN TABERNERO ; PABLO ARTAL ; PATRICIA PIERS

Agent(s): WIEDEMANN PETER ET AL; ADVANCED MEDICAL OPTICS INC; ABBOTT MEDICAL OPTICS INC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM 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 MG MK ML MN MR 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

Title: ELEMENTO OPTICO QUE UTILIZA LA ABERRACION ESFERICA DE MODO OPTIMO PARA LA OBTENCION DE IMAGENES CON GRAN PROFUNDIDAD DE FOCO Y SU UTILIZACION PARA LA COMPENSACION DE LA PRESBICIE

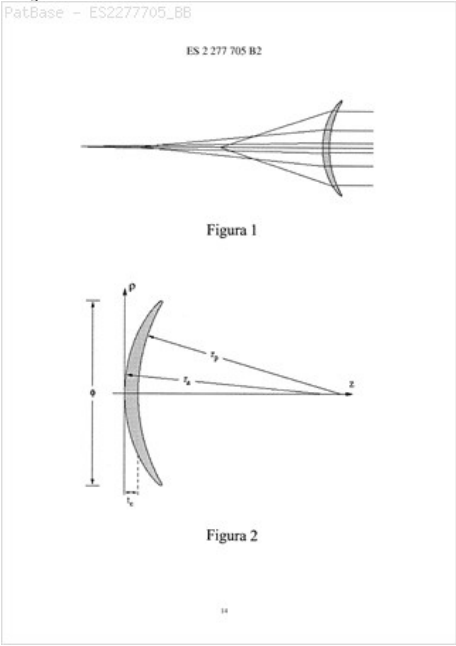
Abstract: The optical component is constructed as a refractive or diffractive component or a combination of both, and is arranged for performing defocusing and symmetric rotation aberrations to partially or totally cancel the aberrations in an optical system. The optical component can be used in any image forming system to form an image with great center depth by compensating customized intraocular lens or contact lenses.

Classifications:

International (IPC 8-9): G02B26/06 G02B27/00 (Advanced/Invention);
G02B26/00 G02B27/00 (Core/Invention)

CPC: G02B26/06 G02B27/0068

European: G02B26/06 G02B27/00K7



Family:

Publication number	Publication date	Application number	Application date
ES2277705 AA	20070716	ES20040002247	20040921
ES2277705 BB	20080716	ES20040002247	20040921

Priority:

ES20040002247 20040921

Probable Assignee: UNIV SANTIAGO COMPOSTELA

Assignee(s): (std): UNIV SANTIAGO COMPOSTELA

Assignee(s): UNIVERSIDADE DE SANTIAGO DE COMPOSTELA

Inventor(s): (std): ARES GARCIA JORGE ; BARA VINAS SALVADOR XURXO ; FLORES SEIJAS JOSE RAMON

Inventor(s): JORGE ARES GARCIA ; JOSE RAMON FLORES SEIJAS ; SALVADOR XURXO BARA VINAS

Title: ASPHERIC INTRAOCULAR LENS AND METHOD FOR MAKING THE SAME

Abstract: Source: US2009125105A The invention relates to a novel artificial intraocular lens (IOL) and a method for improving such a lens in the field of ophthalmology, with surface shape modifications that differ from perfect spherical geometries. The intraocular lens takes into account the natural optical configuration of the human vision apparatus, for example, visual axis tilt and pupil decentration. In addition, the method accounts for potential positioning errors caused by implantation and surgery effects.

Classifications:

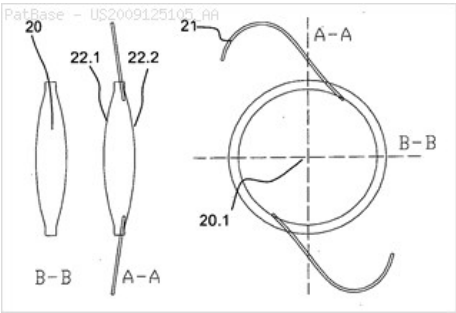
International (IPC 8-9): A61F2/14 A61F2/16 G02C7/02 G06F17/50 G09B23/28 G09B23/30 (Advanced/Invention); A61F2/14 A61F2/16 (Advanced/Non-invention); A61F2/14 A61F2/16 G06F17/50 (Core/Invention)

International (IPC 1-7): A61F2/16

CPC: A61F2/1613 G09B23/28 G09B23/30

European: A61F2/16B G09B23/28 G09B23/30

US: 351/159.2 351/159.200P 351/159.74 351/159.740S 351/177 351/178 623/6.11 623/6.23 703/1



Family:

Publication number	Publication date	Application number	Application date
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Priority:

DE200610021521 20060505 WO2007EP03674 20070426 US20080289789 20081104
US20110064073 20110304

Probable Assignee: ZEISS CARL MEDITEC AG

Assignee(s): (std): GERLACH MARIO ; LESAGE CEDRIC ; ZEISS CARL MEDITEC AG

Assignee(s): CARL ZEISS MEDITEC AG

Inventor(s): (std): MARIO GERLACH ; LESAGE CEDRIC ; GERLACH MARIO ; CEDRIC LESAGE

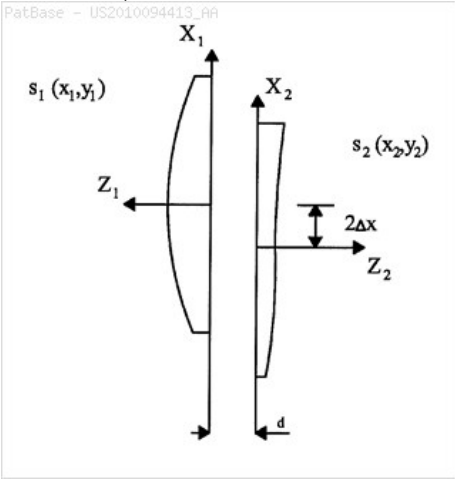
Agent(s): DAVIES COLLISON CAVE; CARL ZEISS AG - PATENTABTEILUNG; CARL ZEISS AG PATENTABTEILUNG; WALTER OTTESEN; WALTER

Designated states: AE AG AL AM 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 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 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

Title: ACCOMMODATING INTRAOCULAR LENS WITH VARIABLE CORRECTION

Abstract: Source: US2010094413A An accommodating intraocular lens with variable optical power, comprising at least two optical elements, at least one of which is movable relative to the other in a direction perpendicular to the optical axis, wherein the optical elements form a lens with different optical power at different relative positions of the optical elements. At least two of the optical elements of the lens comprise at least one additional optical correction surface, which correction surfaces are adapted for simultaneous variable correction of one or more optical aberrations of the natural eye in which the degree of correction depends on the relative position of the optical elements.

Classifications:
International (IPC 8-9): A61F2/16 (Advanced/Invention); A61F2/16 (Core/Invention); A61F (Subclass/Invention)
International (IPC 1-7): A61F2/16
CPC: A61F2/1613 A61F2/1632 A61F2/1648
European: A61F2/16B A61F2/16B4R A61F2/16B8
US: 623/6.25 623/6.250P 623/6.27 623/6.270S



Family:

Publication number	Publication date	Application number	Application date
AT524139 E	20110915	AT20060125992T	20061213
CN101568312 A	20091028	CN200780046158	20071213
CN101568312 B	20130821	CN200780046158	20071213
EP1932492 A1	20080618	EP20060125992	20061213
EP1932492 B1	20110914	EP20060125992	20061213
ES2373566 T3	20120206	ES20060125992T	20061213
HK1135595 A1	20131206	HK20100103703	20100416
IN01078MN2009 A	20090619	IN2009MN01078	20090604
IN267843 B	20150807	IN2009MN01078	20090604
JP2010512814 T2	20100430	JP20090540774T	20071213
JP5298026 B2	20130925	JP20090540774T	20071213
US2010094413 AA	20100415	US20070518458	20071213
WO08071760 A2	20080619	WO2007EP63871	20071213
WO08071760 A3	20080918	WO2007EP63871	20071213

Priority:
EP20060125992 20061213 WO2007EP63871 20071213

Probable Assignee: AKKOLENS INT BV

Assignee(s): (std): AKKOLENS INT BV ; AKKOLENS INTERNAT B V ; ROMBACH MICHIEL CHRISTIAAN ; SIMONOV ALEKSEY NIKOLAEVICH

Assignee(s): AKKOLENS INTERNATIONAL B V

Inventor(s): (std): ROMBACH MICHIEL CHRISTIAAN ; SIMONOV ALEKSEY NIKOLAEVICH ; NIKOLAEVICH SIMONOV ALEKSEY ; CHRISTIAAN ROMBACH MICHIEL

Agent(s): EVELEENS MAARSE PIETER ET AL; EVELEENS MAARSE PIETER; BARNES AND THORNBURG LLP

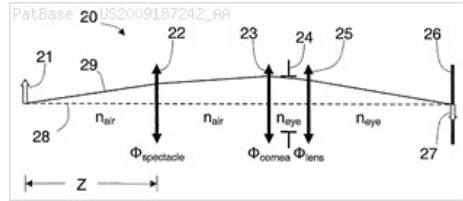
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Title: INTRAOCULAR LENS HAVING EXTENDED DEPTH OF FOCUS

Abstract: Source: US2009187242A An intraocular lens is disclosed, which includes a diffractive element with a relatively low add power. The add power may be less than about 2 Diopters, may be less than about 1 Diopter, or may be in the ranges of 0.5 to 2.5 Diopters, or 1.0 to 2.0 Diopters, or 1.5 to 2.0 Diopters, or 1.0 to 1.5 Diopters. The low-add-power diffractive element increases the depth of the focus of the intraocular lens, for example, compared to a similarly shaped intraocular lens without the diffractive element. In one embodiment, the depth of focus is defined in terms of a threshold MTF value at a particular spatial frequency. The threshold may be an absolute threshold, such as 0.10, 0.15, 0.17, 0.20, 0.25 or 0.30, or may be a relative threshold, such as a particular percentage of the peak value. The spatial frequency may be 25 line pairs per mm, 50 line pairs per mm, 100 line pairs per mm, or any suitable value.

Classifications:

International (IPC 8-9): A61F2/16 G02B27/00 G02C7/04 G02C7/08 (Advanced/Invention); A61F2/16 G02C7/04 (Core/Invention)
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European: A61F2/16B A61F2/16B10 G02B27/00M G02B3/06 G02C7/02 G02C7/02D6 G02C7/04B G02C7/04B2 K61F2/16B6T K61F2/16W S02C202/02 S02C202/20
US: 623/6.24 623/6.240P 623/6.27 623/6.270P 623/6.270S 623/6.28 623/6.280S 623/6.3 623/6.300P



Family:

Publication number	Publication date	Application number	Application date
AU2008292187 AA	20090305	AU20080292187	20080827
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AU2011276241 AA	20120112	AU20110276241	20110707
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EP2334260 A2	20110622	EP20090747166	20090430
EP2590594 A2	20130515	EP20110743165	20110707
US2009187242 AA	20090723	US20080197249	20080823
US2009234448 AA	20090917	US20080120201	20080513
US2011166652 AA	20110707	US20100832816	20100708
US8740978 BB	20140603	US20080120201	20080513
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Priority:

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WO2008EP61235 20080827	WO2009US42449 20090430	US20100832816 20100708
WO2011US43119 20110707		

Probable Assignee: AMO GRONINGEN BV

Assignee(s): (std): AMO GRONINGEN BV ; PIERIS PATRICIA ANN ; AMO REGIONAL HOLDINGS ; WEEBER HENDRIK A ; REISIN CARINA R ; PIERIS PATRICIA A ; ZHAO HUAWEI ; BOGAERT THEOPHILUS ; ABBOTT MEDICAL OPTICS INC ; ADVANCED MEDICAL OPTICS INC

Assignee(s): AMO GRONINGEN B V

Inventor(s): (std): BOGAERT THEOPHILUS ; PIERIS PATRICIA A ; PIERIS PATRICIA ANN ; REISIN CARINA R ; WEEBER HENDRIK A ; WEEBER HENDRIK ALBERT ; ZHAO HUAWEI

Inventor(s): CARINA R REISIN ; HENDRIK A WEEBER ; PATRICIA A PIERIS ; PATRICIA ANN PIERIS

Agent(s): DAVIES COLLISON CAVE ; GOWLING LAFLEUR HENDERSON LLP ; HOFFMANN EITLE ; HOFFMANN EITLE ; ABBOTT MEDICAL OPTICS INC ; AMO REGIONAL HOLDINGS ; AMO GRONINGEN BV ; HOFFMANN EITLE ET AL ; WEBER DAVID ; KIM ROY

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

Title: METHODS AND DEVICES FOR REFRACTIVE TREATMENTS OF PRESBYOPIA

Abstract: Source: US2010274234A Presbyopia in a patient's eye is treated by inducing spherical aberration in the central section of the pupil, while the peripheral section of the pupil is treated in a manner other than the central section of the pupil. For example, the peripheral section of the pupil may remain untreated, or high-order aberration may be controlled, and/or a second area of spherical aberration may be provided with different focus power.

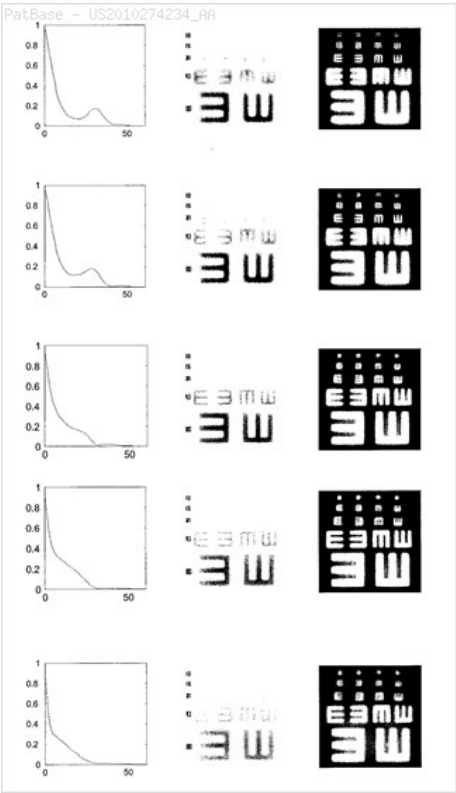
Classifications:

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CPC: A61F9/00808 A61F9/008 A61F9/00812 A61F9/00819 A61F2009/00872 A61F2009/0088 A61F2009/00895 G02C7/042 G02C7/044 G02C2202/22

European: A61F9/008 A61F9/008A1P K61F9/008A3 K61F9/008A50A K61F9/008L5 K61F9/008P1 K61F9/008R4

US: 128/898 351/159 351/159.75 351/160R 351/200 606/5 606/5P



Family:

Publication number	Publication date	Application number	Application date
CN101909539 A	20101208	CN200880123102	20081028
CN101909539 B	20140416	CN200880123102	20081028
EP2211747 A1	20100804	EP20080844582	20081028
EP2211747 A4	20130807	EP20080844582	20081028
JP2011502011 T2	20110120	JP20100531325T	20081028
JP2015077412 A2	20150423	JP20140233442	20141118
MX2010004492 A1	20100830	MX20100004492	20100423
US2010274234 AA	20101028	US20080739742	20081028
US2013324983 AA	20131205	US20130961753	20130807
US8529559 BB	20130910	US20080739742	20081028
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WO09058755 A1	20090507	WO2008US81421	20081028

Priority:

US20070000643P 20071029	WO2008US81421 20081028	US20080739742 20081028
US20130961753 20130807	US20100739742 20100425	JP20100531325 20081028

Probable Assignee: LIANG JUNZHONG

Assignee(s): (std): JUNZHONG LIANG ; LIANG JUNZHONG

Inventor(s): (std): JUNZHONG LIANG ; LIANG JUNZHONG

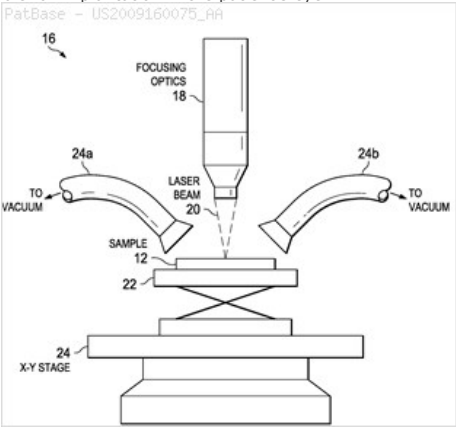
Agent(s): GERVASI GEMMA; MUELLER LAW OFFICE PC; FESSENMAIER MARTIN ET AL

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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHODS FOR FABRICATING CUSTOMIZED INTRAOCULAR LENSES

Abstract: Source: US2009160075A In one aspect, the present invention provides methods for custom fabrication of IOLs. In some embodiments, such methods call for measuring one or more aberrations of a patient's eye, and determining the profile of at least one surface of an IOL that would ameliorate, and control those aberrations. The surface profile can then be imparted to a surface of a starting lens (or a lens blank) via ablation, e.g., by utilizing an excimer laser **beam**. In some other embodiments, the measured aberrations can be utilized to determine the profile of at least one surface of a wafer mold. A wafer mold having that surface profile can then be fabricated, e.g., by ablating a slab or an existing wafer of appropriate material, and the mold can be used to fabricate an IOL suitable for implantation in the patient's eye.

Classifications:
International (IPC 8-9): A61F2/16 A61F9/007 A61L27/00 B23K26/40 B29D11/00 B29D11/02 (Advanced/Invention); A61F2/16 B23K26/00 B29D11/00 (Core/Invention); A61F2/16 (Core/Non-invention)
International (IPC 1-7): A61F2/16
CPC: A61B3/1015 A61F2/14 B23K26/4065 B29D11/00461 B29D11/023 G02C7/04
European: A61B3/10F B23K26/40B7H B29D11/00C22F B29D11/02B G02C7/04 K61F2/14
US: 264/1.37 264/1.370P 606/107 606/107S



Family:

Publication number	Publication date	Application number	Application date
AR070681 AA	20100428	AR2008P105675	20081222
AU2008343086 AA	20090709	AU20080343086	20081218
CA2700890 AA	20090709	CA20082700890	20081218
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JP2011507627 T2	20110310	JP20100539826T	20081218
TW200934460 A	20090816	TW20080149685	20081219
US2009160075 AA	20090625	US20080337192	20081217
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Priority:
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WO2008US87521 20081218

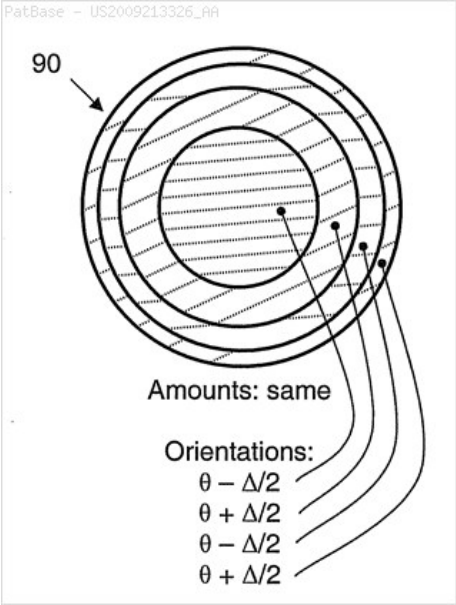
Probable Assignee: ALCON INC
Assignee(s): (std): ALCON INC ; CARSON DANIEL R ; DAS KAMAL K ; SIMPSON MICHAEL J
Inventor(s): (std): DAS KAMAL K ; CARSON DANIEL R ; SIMPSON MICHAEL J
Inventor(s): CARSON DANIEL ; DANIEL R CARSON ; DAS KAMAL ; KAMAL K DAS ; MICHAEL J SIMPSON ; SIMPSON MICHAEL
Agent(s): HANNA PETER WILLIAM DEREK; ALCON; PREJEAN JONATHAN E ET AL
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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: TORIC INTRAOCULAR LENS WITH SPATIALLY-VARIANT ASTIGMATISM

Abstract: Source: US2009213326A An intraocular lens for correcting or reducing the astigmatism of a cornea includes a pupil that is spatially divided into discrete zones, with each zone having a particular astigmatism magnitude and astigmatism orientation. In one embodiment, the zones all have the same astigmatism magnitude, which is equal and opposite the cornea astigmatism magnitude to within a particular tolerance, such as 0.25 diopters. In one embodiment, some or all of the zones all have different astigmatism orientations, with the angular separation between astigmatism orientations being on the order of the rotational misalignment tolerance of the lens to the cornea. The visual performance of such a lens deteriorates more slowly with rotational misalignment, when compared to a comparable lens having a uniform astigmatism orientation across its entire pupil, leading to more relaxed tolerances for a surgeon that implants the lens.

Classifications:

International (IPC 8-9): A61F2/16 G02C7/00 G02C7/02 G02C7/04 G02C7/06 G02C7/08 (Advanced/Invention);
A61F2/16 G02C7/02 G02C7/04 G02C7/06 (Core/Invention)
CPC: G02C7/027 G02C7/042 G02C7/044 G02C2202/20 G02C7/045 A61F2/1613 G02C7/028 G02C7/04 G02C2202/02 G02C7/041
European: A61F2/16B G02C7/02D6 G02C7/04 G02C7/04B G02C7/04B2 G02C7/04B6 S02C202/02 S02C202/20
US: 351/159 351/159.01 351/159.21 351/159.44 351/159.440P 351/159.46 351/159.52 351/159.520P 351/159.53 351/159.71 351/159.74 351/169 351/169P 351/176 351/176P 623/6.11 623/6.27 623/6.29 623/6.290S



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: ABBOTT MEDICAL OPTICS INC

Assignee(s): (std): ADVANCED MEDICAL OPTICS INC ; PIERS PATRICIA ANN ; ZHAO HUAWEI ; WEEBER HENDRIK ; WEEBER HENDRIK A ; ABBOTT MEDICAL OPTIC INC ; ABBOTT MEDICAL OPTICS INC

Inventor(s): (std): PIERS PATRICIA ANN ; WEEBER HENDRIK ; WEEBER HENDRIK A ; ZHAO HUAWEI

Inventor(s): HUAWEI ZHAO

Agent(s): HOFFMANN EITLE; ABBOTT MEDICAL OPTICS INC; ABBOTT MEDICAL OPTICS INC LEGAL DEPARTMENT; WEBER DAVID; BRADLEY NICOLE S

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

Title: METHOD FOR DETERMINING THE CONFIGURATION OF AN OPHTHALMIC LENS, OPHTHALMIC LENS PRODUCED ACCORDING TO SAID METHOD, AND METHOD FOR PRODUCING SAID LENS

Abstract: Source: US2010321635A The invention relates to a method for determining the configuration of an ophthalmic lens intended to correct the visual acuity of a user, this method comprising the steps of determining the form of a base optical corrective element according to at least one of the following parameters: the desired power of the ophthalmic lens; the desired resolution or modulation transfer function MTF; the desired extent of the correction of the spherical aberrations (SA) of said ophthalmic lens; the desired extent of the correction of the spherical aberrations (SA) of the cornea of the user; the desired extent of the correction of the chromatic aberrations of said ophthalmic lens; the desired extent of the correction of the chromatic aberrations of the cornea of the user; the desired extent of the correction of high order aberrations (HOA). Furthermore the method comprises a step of determining the profile of a diffractive phase element (DPE) structure, said determination comprising the steps of defining a desired depth of focus of said ophthalmic lens; of calculating the phase distribution to be created at the entrance pupil of the lens, from the desired depth of focus; of finding the phases which minimize the differences between the effective phase distribution and the desired phase distribution and of converting the phase data into geometrical data in order to define the profile of the diffractive phase distribution structure. The method finally comprises juxtaposing the resulting diffractive phase element structure and the base optical corrective element. The invention also concerns a lens obtained according to the above mentioned method as well as a method for the producing such a lens.

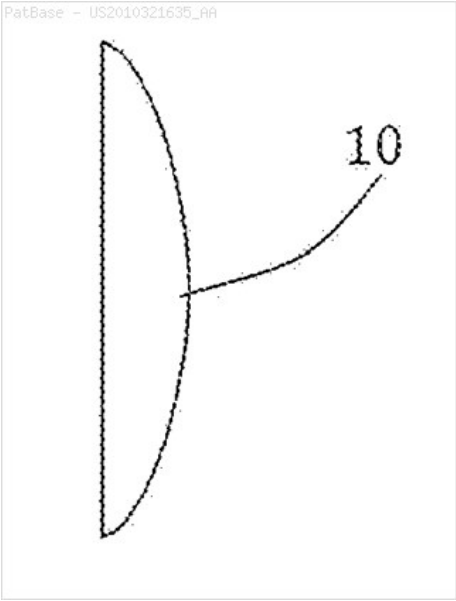
Classifications:

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European: A61F2/16 G02C7/02 G02C7/02D6 G02C7/04 G02C7/04B2 G02C7/06 K61F2/16 S02C202/20 S02C202/22

US: 351/159 351/159.74 351/159.75 351/159.750P 351/177



Family:

Publication number	Publication date	Application number	Application date
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WO09115932 A3	20100311	WO2009IB50463	20090205

Priority:

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Probable Assignee: SAV IOL SA

Assignee(s): (std): APTER ALAIN ; APTER ROBERT ; SAV IOL SA

Assignee(s): ALAIN APTER ; ROBERT APTER

Inventor(s): (std): APTER ALAIN ; APTER ROBERT

Inventor(s): ROBERT APTER ; SAV IOL SA ; ALAIN APTER

Agent(s): LEMAN CONSULTING S A; DLA PIPER LLP (US),ATTN: PATENT GROUP; DLA PIPER LLP US ATTN PATENT GROUP; DLA PIPER LLP US; LEMAN CONSULTING S A 284

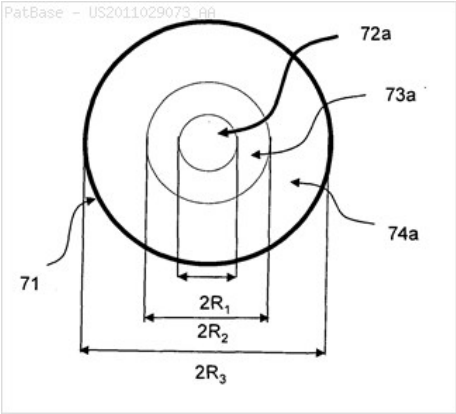
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Title: METHODS AND DEVICES FOR REFRACTIVE CORRECTIONS OF PRESBYOPIA

Abstract: Source: US2011029073A Presbyopia in a patient's eye is treated by inducing spherical aberration in the central section of the pupil, while the peripheral section of the pupil is treated in a manner other than the central section of the pupil. For example, the peripheral section of the pupil may remain untreated, or high-order aberration may be controlled, and/or a second area of spherical aberration may be provided with different focus power.

Classifications:

International (IPC 8-9): A61F2/14 A61F2/16 G02C7/04 G02C7/06 G02C7/10 (Advanced/Invention); A61F2/14 A61F2/16 (Core/Invention)
CPC: A61F2/147 A61F2/1613 A61F9/00808 A61F9/00812 A61F2009/00872 A61F2009/0088 G02C7/02 G02C7/028 G02C7/042 G02C7/044 G02C7/061
European: A61F2/14R A61F2/16B A61F9/008A1P G02C7/02 G02C7/02D6 G02C7/04B2 G02C7/04B6 G02C7/06P K61F9/008A3 K61F9/008L5 K61F9/008P1
US: 351/159.12 351/159.120S 351/161 351/164 351/168 351/169 351/171 623/5.11 623/5.110P



Family:

Publication number	Publication date	Application number	Application date
EP2265216 A2	20101229	EP20090727292	20090331
EP2265216 A4	20150729	EP20090727292	20090331
MX2010010714 A1	20101109	MX20100010714	20100929
US2011029073 AA	20110203	US20090935287	20090331
WO09123700 A2	20091008	WO2009US01980	20090331
WO09123700 A3	20091223	WO2009US01980	20090331

Priority:

US20080072653P 20080402 WO2009US01980 20090331 US20090935287 20090331

Probable Assignee: LIANG JUNZHONG

Assignee(s): (std): LIANG JUNZHONG

Assignee(s): JUNZHONG LIANG

Inventor(s): (std): LIANG JUNZHONG

Inventor(s): JUNZHONG LIANG

Agent(s): GERVASI GEMMA; MUELLER LAW OFFICE PC; FESSENMAIER MARTIN ET AL

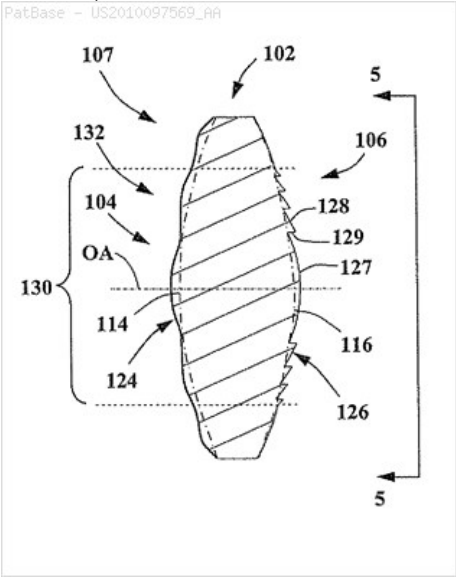
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Title: MULTIFOCAL INTRAOCULAR LENS

Abstract: Source: US2010097569A An intraocular lens for providing a subject with vision at various distances includes an optic having a first surface with a first shape, an opposing second surface with a second shape, a multifocal refractive profile, and one or more diffractive portions. The optic may include at least one multifocal diffractive profile. In some embodiments, multifocal diffractive and the multifocal refractive profiles are disposed on different, distinct, or non-overlapping portions or apertures of the optic. Alternatively, portions of the multifocal diffractive profiles and the multifocal refractive profiles may overlap within a common aperture or zone of the optic.

Classifications:

International (IPC 8-9): A61F2/16 G02C7/04 G02C7/06 (Advanced/Invention); A61F2/16 (Advanced/Non-invention); A61F2/16 G02C7/04 G02C7/06 (Core/Invention)
CPC: A61F2/1654 A61F2/1618 A61F2250/0014 G02C7/042 G02C7/044 G02C7/06 G02C2202/20
European: A61F2/16B10 A61F2/16B2F G02C7/04B2 G02C7/04B6 G02C7/06 K61F250/00N S02C202/20
US: 351/159.05 351/159.43 351/159.44 351/159.440P 351/169 351/169P 351/171 351/171S 623/6.28 623/6.3 623/6.3005



Family:

Publication number	Publication date	Application number	Application date
AU2009306443 AA	20100429	AU20090306443	20091020
AU2009306443 BB	20141016	AU20090306443	20091020
CA2741158 AA	20100429	CA20092741158	20091020
EP2364457 A1	20110914	EP20090740311	20091020
EP2364457 B1	20150819	EP20090740311	20091020
US2010097569 AA	20100422	US20080254710	20081020
US2013090730 AA	20130411	US20120649723	20121011
US8292953 BB	20121023	US20080254710	20081020
WO10046356 A1	20100429	WO2009EP63723	20091020

Priority:
US20080254710 20081020 WO2009EP63723 20091020 US20120649723 20121011

Probable Assignee: AMO GRONINGEN BV

Assignee(s): (std): AMO GRONINGEN B V ; WEEBER HENDRIK A ; PIERS PATRICIA ANN ; VAN DER MOOREN MARRIE H ; BANDHAUER MARK H ; ZHAO HUAWEI ; AMO GRONINGEN BV ; MOOREN MARRIE H VAN D ; ABBOTT MEDICAL OPTICS INC ; ADVANCED MEDICAL OPTICS INC

Inventor(s): (std): BANDHAUER MARK H ; PIERS PATRICIA ANN ; VAN DER MOOREN MARRIE H ; WEEBER HENDRIK A ; ZHAO HUAWEI ; MOOREN MARRIE H VAN D ; MOOREN MARRIE H VAN DER

Inventor(s): PATRICIA ANN PIERS ; HENDRIK A WEEBER ; HUAWEI ZHAO ; MARK H BANDHAUER ; MARRIE H VAN DER MOOREN

Agent(s): DAVIES COLLISON CAVE; GOWLING LAFLEUR HENDERSON LLP; HOFFMANN EITLE; ABBOTT MEDICAL OPTICS INC; AMO GRONINGEN BV; SIEGERT GEORG ET AL

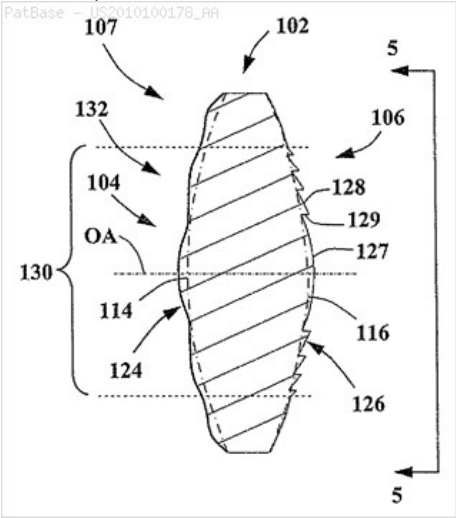
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MULTIFOCAL INTRAOCULAR LENS

Abstract: Source: US2010100178A An intraocular lens for providing a subject with vision at various distances includes an optic having a first surface with a first shape, an opposing second surface with a second shape, a multifocal refractive profile, and one or more diffractive portions. The optic may include at least one multifocal diffractive profile. In some embodiments, multifocal diffractive and the multifocal refractive profiles are disposed on different, distinct, or non-overlapping portions or apertures of the optic. Alternatively, portions of the multifocal diffractive profiles and the multifocal refractive profiles may overlap within a common aperture or zone of the optic.

Classifications:

International (IPC 8-9): A61F2/16 G02C7/06 (Advanced/Invention)
CPC: A61F2/1618 A61F2/1654 A61F2250/0014 G02C7/042 G02C7/044 G02C7/06 G02C2202/20
European: A61F2/16B10 A61F2/16B2F G02C7/04B2 G02C7/04B6 G02C7/06 K61F250/00N S02C202/20
US: 351/159.41 351/159.410S 351/169 351/169S 623/6.24 623/6.27 623/6.28 623/6.280P 623/6.3 623/6.31



Family:

Publication number	Publication date	Application number	Application date
US2010100178 AA	20100422	US20080254723	20081020
US8734511 BB	20140527	US20080254723	20081020

Priority:

US20080254723 20081020

Probable Assignee: ADVANCED MEDICAL OPTICS INC

Assignee(s): (std): ADVANCED MEDICAL OPTICS INC ; AMO GRONINGEN BV ; BANDHAUER MARK H ; MOOREN MARRIE H VAN D ; PIERS PATRICIA ANN ; WEEBER HENDRIK A ; ZHAO HUAWEI

Inventor(s): (std): BANDHAUER MARK H ; MOOREN MARRIE H VAN D ; PIERS PATRICIA ANN ; VAN DER MOOREN MARRIE H ; WEEBER HENDRIK A ; ZHAO HUAWEI

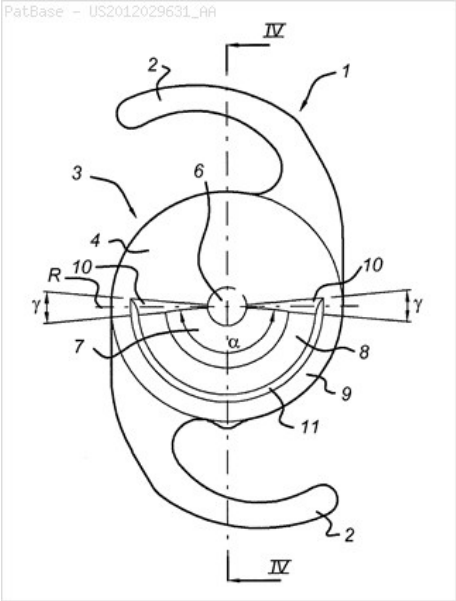
Agent(s): ABBOTT MEDICAL OPTICS INC; AMO GRONINGEN BV

Title: OPTHALMIC LENS WITH OPTICAL SECTORS

Abstract: Source: US2012029631A The invention relates to an ophthalmic lens comprising a main lens part, a recessed part, an optical centre, and an optical axis through said optical centre, said main lens part having at least one boundary with said recessed part, said main lens part having an optical power of between about -20 to about +35 dioptre, said recessed part positioned at a distance of less than 2 mm from said optical centre and comprising a near part having a relative dioptre of about +1.0 to about +5.0 with respect to the optical power of said main lens part, said boundary or boundaries of said recessed lens part with said main lens part form a blending part or blending parts, are shaped to refract light away from said optical axis, and have a curvature resulting in a loss of light, within a circle with a diameter of 4 mm around said optical centre, of less than about 15 percent.

Classifications:

International (IPC 8-9): A01F A61F2/14 A61F2/16 G02C7/02 G02C7/04 G02C7/06 (Advanced/Invention); G02C7/02 G02C7/06 (Advanced/Non-invention); A61F2/16 G02C7/04 G02C7/06 (Core/Invention)
CPC: A61F2/1602 G02C7/042 G02C7/045 A61F2/1613 G02C7/041 A61F2/1618 G02C7/04 G02C7/028 G02C7/06
European: A61F2/16A A61F2/16B2F G02C7/02D6 G02C7/04 G02C7/04B2 G02C7/06
US: 351/159.01 351/159.010S 351/159.15 351/168 351/177 623/6.11 623/6.110S 623/6.27 623/6.270P



Family:

Publication number	Publication date	Application number	Application date
AT542165 E	20120215	AT20100153882T	20100217
AU2010216510 AA	20100826	AU20100216510	20100217
AU2010216510 BB	20150507	AU20100216510	20100217
CA2752794 AA	20110817	CA20102752794	20100217
CN102395917 A	20120328	CN201080017472	20100217
CN102395917 B	20140507	CN201080017472	20100217
CN103955075 A	20140730	CN201410126427	20100217
DE202010010365 U1	20110303	DE201020010365U	20100217
DK2219065 T3	20120507	DK20100153882T	20100217
EP2219065 A1	20100818	EP20100153882	20100217
EP2219065 B1	20120118	EP20100153882	20100217
EP2418535 A2	20120215	EP20110188888	20100217
EP2418535 A3	20120509	EP20110188888	20100217
EP2418535 B1	20140604	EP20110188888	20100217
EP2790052 A1	20141015	EP20140170812	20100217
EP2790052 B1	20150916	EP20140170812	20100217
ES2379529 T3	20120427	ES20100153882T	20100217
GB201011911 A0	20100901	GB20100011911	20100217
GB2483843 A1	20120328	GB20100011911	20100217
IL214710 A0	20111130	IL20110214710	20110817
IN05918CN2011 A	20121116	IN2011CN05918	20110817
JP2012517880 T2	20120809	JP20110551025T	20100217
JP2015062724 A2	20150409	JP20140247588	20141208
JP5663496 B2	20150204	JP20110551025T	20100217
KR20110132381 A	201111207	KR20117021806	20100217
MX2011008696 A1	20111129	MX20110008696	20110817
NL2002540 C	20100818	NL20092002540	20090217
PT2219065 T	20120427	PT20100153882T	20100217
RU2011138159 A	20130327	RU20110138159	20100217
RU2532240 C2	20141027	RU20110138159	20100217
US2012029631 AA	20120202	US20100201800	20100217
US2014172091 AA	20140619	US20140184791	20140220
US8696746 BB	20140415	US20100201800	20100217
WO10095938 A1	20100826	WO2010NL50078	20100217

Priority:

NL20092002540 20090217	US20090153044P 20090217	WO2010NL50078 20100217
EP20100153882 20100217	US20100201800 20100217	EP20110188888 20100217
US20110201800 20111018	US20140184791 20140220	JP20110551025 20100217

Probable Assignee: OCULENTIS HOLDINGS BV

Assignee(s): (std): OCULENTIS HOLDING BV ; WANDERS BERNARDUS FRANCISCUS MARIA ; WOLTERINCK WALTER BERNARDUS JOHANNES ; OCULENTIS B V ; PROCORNEA HOLDING BV ; OCULENTIS BV ; OCULENTIS HOLDINGS BV ; OKULENTIS KHOLDING BV ; OCULENTIS B V ; OCULENTIS BV

Assignee(s): OCULENTIS HOLDING B V ; PROCORNEA HOLDING B V

Inventor(s): (std): MARIA WANDERS BERNARDUS FRANCISCUS ; VANDERS BERNANDUS FRANTSISKUS MARIA ; VOL TERINK VAL TER BERNANDUS JOKHANES ; JOHANNES WOLTERINCK WALTER BERNARDUS ; LUCAS MARIA MANUEL RAMOS ; WANDERS BERNARDUS FRANCISCUS MARIA ; WOLTERINCK WALTER BERNARDUS JOHAN ; WOLTERINCK WALTER BERNARDUS JOHANNES

Inventor(s): MARIA MANUEL RAMOS LUCAS ; WALTER BERNARDUS JOHANNES WOLTERINCK ; BERNARDUS FRANCISCUS MARIA WANDERS

Agent(s): GRIFFITH HACK; BLAKE CASSELS AND GRAYDON LLP; KETELAARS MAARTEN F J M; HUTTER JACOBUS JOHANNES;

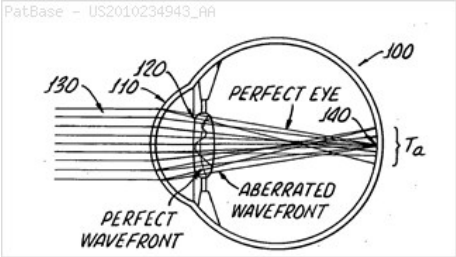
NEDERLANDSCH OCTROOIBUREAU; SUGHRUE MION PLLC; KETELAARS MAARTEN

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
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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

Title: NON-PROLATE ASPHERIC INTRAOCULAR LENS

Abstract: Source: US2010234943A An intraocular lens for implantation into a human eye is described. The lens has at least one aspheric surface configured with non-prolate profile to maintain lens optical advantage as compared with equivalent power spherical lens within realistic clinical condition of lens tilt and decentration.

Classifications:
International (IPC 8-9): A61F2/16 (Advanced/Invention);
A61F2/16 (Core/Invention)
CPC: A61F2/1618 A61F2/1654 A61F2002/164 A61F2/164
European: A61F2/16B10 A61F2/16B2F K61F2/16B6A
US: 623/6.23 623/6.230S 623/6.24 623/6.240P



Family:

Publication number	Publication date	Application number	Application date
EP2405861 A1	20120118	EP20090841639	20091006
US2010234943 AA	20100916	US20090415742	20090331
US8894706 BB	20141125	US20090415742	20090331
WO10104530 A1	20100916	WO2009US59663	20091006

Priority:
US20090159369P 20090311 US20090415742 20090331 WO2009US59663 20091006

Probable Assignee: AAREN SCIENT INC
Assignee(s): (std): AAREN SCIENT INC ; PORTNEY VALDEMAR
Assignee(s): TEXAS CAPITAL BANK NATIONAL ASSOCIATION ; AAREN SCIENTIFIC INC
Inventor(s): (std): PORTNEY VALDEMAR
Agent(s): KOHLER SCHMID MOEBUS; WALTER A HACKLER PHD PATENT LAW OFFICE; HACKLER DAGHIGHIAN AND MARTINO; HACKLER WALTER A

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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MULTIFOCAL DIFFRACTIVE CONTACT LENS WITH BI-SIGN SURFACE SHAPE

Abstract: Source: US2011019148A A contact lens for placing over the eye is described. The lens has at least one non-spherical shape surface configured with bi-sign profile to maintain lens optical advantage as compared with equivalent far power spherical lens within common clinical condition of lens movement over the cornea of the eye.

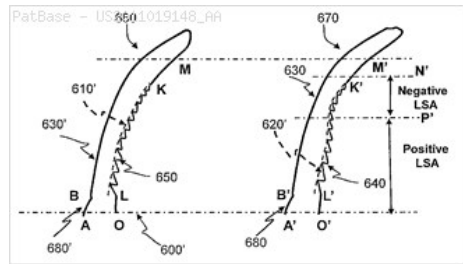
Classifications:

International (IPC 8-9): G02C7/04 (Advanced/Invention)

CPC: G02C7/041 G02C7/042 G02C2202/20

European: G02C7/04B G02C7/04B2 S02C202/20

US: 351/159 351/159.01 351/159.03 351/159.06 351/159.060P 351/160R 351/161 351/177



Family:

Publication number	Publication date	Application number	Application date
US2011019148 AA	20110127	US20090510172	20090727
US8128222 BB	20120306	US20090510172	20090727

Priority:

US20090510172 20090727

Probable Assignee: PORTNEY VALDEMAR

Assignee(s): (std): PORTNEY VALDEMAR

Inventor(s): (std): PORTNEY VALDEMAR

Agent(s): WALTER A HACKLER PHD PATENT LAW OFFICE; WALTER A

Title: SINGLE MICROSTRUCTURE LENS, SYSTEMS AND METHODS

Abstract: Source: US2011149236A Systems and methods for providing enhanced image quality across a wide and extended range of foci encompass vision treatment techniques and ophthalmic lenses such as contact lenses and intraocular lenses (IOLs). Exemplary IOL optics can include a circular surface structure which acts as a diffractive or phase shifting profile. In some cases, a single ring IOL includes an anterior face and a posterior face, where a profile can be imposed on the anterior or posterior surface or face. The profile can have an inner portion such as a microstructure or central echelette, and an outer portion. Between the inner portion and the outer portion, there may be a transition zone that connects the inner and outer portions.

Classifications:
International (IPC 8-9): A61F2/14 A61F2/16 G02B5/18 G02C7/02 G02C7/04 G02C7/06 (Advanced/Invention); A61F2/16 G02C7/04 G02C7/06 (Advanced/Non-invention)
CPC: A61F2/1624 G02C7/06 A61F2/1602 G02C7/049 G02C7/027 A61F2/1613 A61F2/1618 G02C7/041 A61F2/1645 G02C7/02 A61F2/1654 G02C7/04 G02C2202/02 G02C2202/20 A61F2002/1645 A61F2/16 G02C7/044 G02C2202/10
European: A61F2/16B10 A61F2/16B2F G02C7/02 G02C7/04 G02C7/04B K61F2/16B6T S02C202/02 S02C202/20
US: 351/159 351/159.01 351/159.010P 351/159.11 351/159.110P 351/159.15 351/159.35 351/159.44 351/159.52 351/159.54 351/159.73 351/159.74 351/159.740S 351/168 351/177 623/6.27

Family:

Publication number	Publication date	Application number	Application date
AU2010330799 AA	20110623	AU20100330799	20101217
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WO11075641 A2	20110623	WO2010US61017	20101217
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WO11075651 A1	20110623	WO2010US61042	20101217
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WO12083143 A1	20120621	WO2011US65433	20111216

Priority:
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US20100971506 20101217 US20100971889 20101217 US20100971607 20101217
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WO2011US65433 20111216 US20120594416 20120824 US20130872784 20130429
US20130934556 20130703 WO2012US52311 20120824 US20140472815 20140829
US20150589197 20150105

Probable Assignee: AMO GRONINGEN BV

Assignee(s): (std): AMO GRONINGEN BV ; CANOVAS VIDAL CARMEN ; WEEBER HENDRIK A ; CATLIN SCOTT J ; PIERS PATRICIA ANN ; LI KACCIE Y ; FRANSSSEN LUUK ; WEEBER HENK A ; MOOREN MARRIE VAN D ; ABBOTT MEDICAL OPTICS INC

Assignee(s): AMO GRONINGEN B V ; PIERS PATRICIA A ; CATLIN SCOTT L

Inventor(s): (std): CANOVAS VIDAL CARMEN ; CATLIN SCOTT L ; FRANSSSEN LUUK ; LI KACCIE Y ; MOOREN MARRIE VAN D ; PIERS PATRICIA A ; PIERS PATRICIA ANN ; WEEBER HENK A ; WEEBER HENDRIK A ; CATLIN SCOTT J

Inventor(s): WEEBER HENDRIK

Agent(s): DAVIES COLLISON CAVE ; GOWLING LAFLEUR HENDERSON LLP ; HOFFMANN EITL ; AMO GRONINGEN B V ; AMO GRONINGEN BV ; ABBOTT MEDICAL OPTICS INC ; KIM ROY

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 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: APPARATUS, SYSTEM AND METHOD FOR PREDICTIVE MODELING TO DESIGN, EVALUATE AND OPTIMIZE OPHTHALMIC LENSES

Abstract: Source: US2011270596A An apparatus, system and method for predictive modeling to design, evaluate and optimize ophthalmic lenses is disclosed. Ophthalmic lenses may include, for example, contacts, glasses or intraocular lenses (IOLs). The apparatus, system and method may include a design tool for designing a lens for implantation in an eye having a plurality of characteristics, a simulator for simulating performance of the lens in at least one modeled eye having the plurality of characteristics, at least one input for receiving clinical performance of the lens in the eye having the plurality of characteristics, a comparator for comparing outcomes of the clinical performance and the simulated performance, and an optimizer for optimizing a subsequent one of the outcome of the clinical performance responsive to modification of the lens in accordance with modification to the simulated performance.

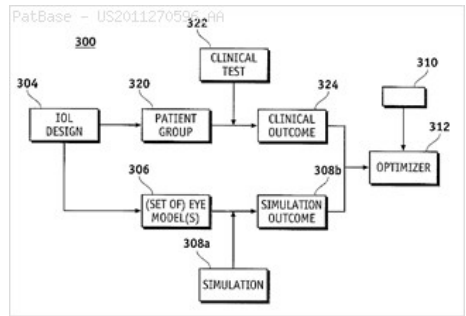
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CPC: G02C7/02 A61F2/16 G02C7/04 G02C7/041 G02C7/06

European: A61F2/16 G02C7/02 G02C7/04 G02C7/04B G02C7/06

US: 351/159.76 351/159.760S 351/177 703/11 703/11P 703/2 703/6



Family:

Publication number	Publication date	Application number	Application date
AU2011246966 AA	20111103	AU20110246966	20110429
AU2011246966 BB	20150402	AU20110246966	20110429
CA2797924 AA	20121030	CA20112797924	20110429
EP2564263 A1	20130306	EP20110724758	20110429
US2011270596 AA	20111103	US20100771550	20100430
US8862447 BB	20141014	US20100771550	20100430
WO11135449 A1	20111103	WO2011IB01067	20110429

Priority:

US20100771550 20100430 WO2011IB01067 20110429

Probable Assignee: AMO GRONINGEN BV

Assignee(s): (std): AMO GRONINGEN BV ; AMO REGIONAL HOLDINGS ; WEEBER HENDRIK A

Assignee(s): AMO GRONINGEN B V

Inventor(s): (std): WEEBER HENDRIK A

Agent(s): HOFFMANN EITL; AMO GRONINGEN BV

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

Title: MICROINCISION LENS

Abstract: Source: US2012059464A A foldable lens comprises an outer refractive surface portion comprising a first plurality of convexly curved refractive profile regions having positive optical power to converge light energy with refraction toward a focus on the retina. The convexly curved refractive profile regions of the outer region may correspond to at least about a quarter of the refractive power of the lens, such that the lens thickness is decreased substantially and the folded lens can fit through a small incision. The outer refractive surface portion focuses light with refraction, in focus images viewed through the outer portion of the lens can appear sharp to the patient. The outer refractive surface portion also comprises a second plurality of concavely curved refractive profile regions having negative optical power disposed between the first plurality, so as to diverge the light energy substantially away from the focus on the retina, such that visual artifacts are inhibited.

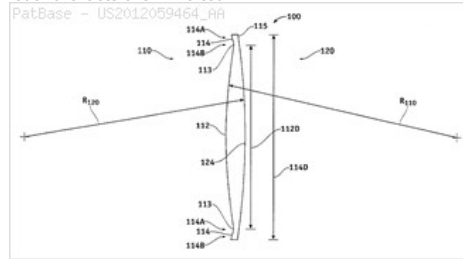
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CPC: A61F2/1656 A61F2/1613 A61F2/1654

European: A61F2/16B10 K61F2/16B10F

US: 623/6.28 623/6.280P



Family:

Publication number	Publication date	Application number	Application date
AU2011295739 AA	20120308	AU20110295739	20110902
AU2011295739 BB	20150319	AU20110295739	20110902
CA2810238 AA	20130301	CA20112810238	20110902
EP2611386 A1	20130710	EP20110767098	20110902
US2012059464 AA	20120308	US20100875850	20100903
US2015196389 AA	20150716	US20150668552	20150325
US8992611 BB	20150331	US20100875850	20100903
WO12031211 A1	20120308	WO2011US50342	20110902

Priority:

US20100875850 20100903 WO2011US50342 20110902 US20150668552 20150325

Probable Assignee: ABBOTT MEDICAL OPTICS INC

Assignee(s): (std): ABBOTT MEDICAL OPTICS INC ; ZHAO HUAWEI

Inventor(s): (std): ZHAO HUAWEI

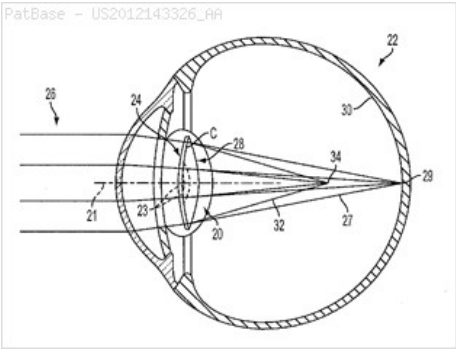
Agent(s): HOFFMANN EITL; ABBOTT MEDICAL OPTICS INC; KIM ROY

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 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: MULTIFOCAL LENS HAVING AN OPTICAL ADD POWER PROGRESSION, AND A SYSTEM AND METHOD OF PROVIDING SAME

Abstract: Source: US2012143326A An apparatus, system and method including an ophthalmic lens having an optic with an anterior surface, a posterior surface, and an optical axis. The ophthalmic lens further includes a first region having a first optical power and a second region having a second optical power. The ophthalmic lens further includes a third region having an optical power that progresses from the first optical power to the second optical power. The progression may be uniform or non-uniform. Each of the first, second and progression optical power may include a base power and an optical add power. Each of the first, second and progression regions may provide a first focus, a second focus and a plurality of third foci, respectively.

Classifications:
International (IPC 8-9): A61F2/16 G02C7/04 (Advanced/Invention)
CPC: G02C7/045 A61F2/1616 G02C7/042
European: A61F2/16B2 G02C7/04B2 G02C7/04B8
US: 623/6.27 623/6.270P



Family:

Publication number	Publication date	Application number	Application date
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AU2011336183 BB	20150716	AU20110336183	20111201
CA2819629 AA	20130531	CA20112819629	20111201
EP2646872 A1	20131009	EP20110815563	20111201
US2012143326 AA	20120607	US20110309314	20111201
WO12073112 A1	20120607	WO2011IB03000	20111201

Priority:
US20100418759P 20101201 US20110309314 20111201 WO2011IB03000 20111201

Probable Assignee: ABBOTT MEDICAL OPTICS INC

Assignee(s): (std): AMO GRONINGEN BV ; CANOVAS VIDAL CARMEN ; MOOREN MARRIE H VAN D ; WEEBER HENDRIK A ; VAN DER MOOREN MARRIE H

Assignee(s): ABBOTT MEDICAL OPTICS INC ; AMO GRONINGEN B V

Inventor(s): (std): CANOVAS VIDAL CARMEN ; MOOREN MARRIE H VAN D ; VAN DER MOOREN MARRIE H ; WEEBER HENDRIK A

Agent(s): HOFFMANN EITL; SIEGERT G DR ET AL

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 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: METHOD FOR DESIGNING, EVALUATING AND OPTIMIZING OPHTHALMIC LENSES AND LASER VISION CORRECTION

Abstract: Source: US2012296422A The present invention relates generally to lens design and, more particularly, to a method for designing, evaluating and optimizing ophthalmic lenses and laser vision correction in order to optimally manage issues resulting from, or related to, halos.

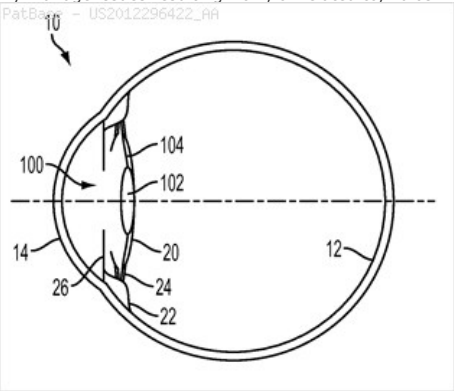
Classifications:

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CPC: A61F2/1613 A61B3/0025 A61F2/1637 G02C7/027 G02C2202/22

European: A61F2/16B6 G02C7/02D4 S02C202/22

US: 351/159.77 623/6.11



Family:

Publication number	Publication date	Application number	Application date
AU2011337014 AA	20120607	AU20110337014	20111115
CA2819451 AA	20130530	CA20112819451	20111115
EP2646871 A1	20131009	EP20110793906	20111115
US2012296422 AA	20121122	US20110297103	20111115
US2014081395 AA	20140320	US20130080499	20131114
WO12074742 A1	20120607	WO2011US60842	20111115

Priority:

US20100418234P 20101130 US20110297103 20111115 WO2011US60842 20111115
US20130080499 20131114

Probable Assignee: AMO GRONINGEN BV

Assignee(s): (std): AMO GRONINGEN BV ; WEEBER HENDRIK A

Inventor(s): (std): WEEBER HENDRIK A

Agent(s): HOFFMANN EITLE; KIM ROY

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 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: METHODS OF PREDICTING THE POST-OPERATIVE POSITION OF AN IOL AND USES OF SUCH METHODS

Abstract: Source: US2013345807A The invention relates to the field of ophthalmic systems and procedures. In particular, the invention relates to the determination of the post-operative position of an intraocular lens (termed "IOL") in an eye of a patient undergoing lens replacement surgery, which involves determining the position of the existing crystalline lens in the pre-operative eye of the patient and using that information and a single numerical constant to predict the post-operative intraocular lens position. Related methods, and computer programs for performing the methods of the invention, are also disclosed.

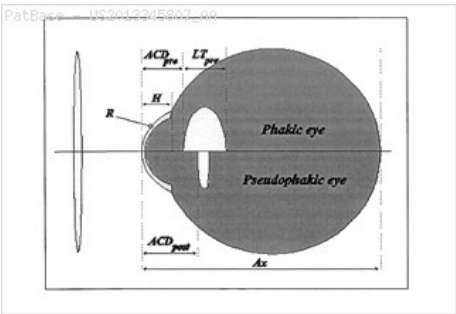
Classifications:

International (IPC 8-9): A61B19/00 A61B3/00 A61B3/10 A61B5/107 A61B8/10 A61F2/16 A61F9/007 A61F9/008 (Advanced/Invention)

CPC: A61B3/0025 A61B8/0858 A61B8/10 A61F2240/002 A61B3/1005 A61B5/1075 A61F9/007 A61F9/008 A61B19/50 A61B5/1072 A61F2/16

European: A61B3/00C1 A61B5/107B A61B8/08J A61B8/10 K61F2/16 K61F240/00M2

US: 623/6.11



Family:

Publication number	Publication date	Application number	Application date
AU2012224545 AA	20120913	AU20120224545	20120308
CA2829143 AA	20130905	CA20122829143	20120308
CN103533882 A	20140122	CN201280022536	20120308
DE12709826 T1	20140220	DE20120709826T	20120308
EP2683287 A1	20140115	EP20120709826	20120308
GB201103970 A0	20110420	GB20110003970	20110309
GB2488802 A1	20120912	GB20110003970	20110309
GB2488802 B2	20130918	GB20110003970	20110309
JP2014518643 T2	20140807	JP20130557096T	20120308
KR20140038951 A	20140331	KR20137026659	20120308
RU2013145070 A	20150627	RU20130145070	20120308
SG193339 A1	20131030	SG20130006714	20120308
US2013345807 AA	20131226	US20120003151	20120308
WO12120080 A1	20120913	WO2012EP54010	20120308

Priority:

GB20110003970 20110309 WO2012EP54010 20120308 EP20120709826 20120308

Probable Assignee: IOL INNOVATIONS APS

Assignee(s): (std): IOL INNOVATIONS APS ; OLSEN THOMAS

Inventor(s): (std): OLSEN THOMAS

Inventor(s): THOMAS OLSEN

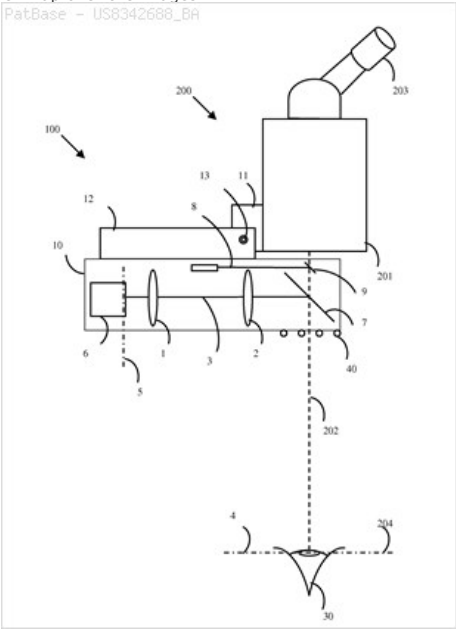
Agent(s): WRAYS; BERESKIN AND PARR LLP SENCRL SRL; POTTER CLARKSON LLP; DIDMON MARK

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 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: MULTIFOCAL CAPABLE OPHTHALMIC ABERROMETER

Abstract: Source: US8342688B A multifocal capable ophthalmic aberrometer has an afocal relay defining an optical axis, an object plane, and an image plane. The image plane is conjugated to the object plane. A probe **beam** is projected along the optical axis and is propagated toward the object plane. Reflection of the probe **beam** from a subject eye located at the object plane generates a wavefront emerging from the object plane. A Hartmann-Shack sensor positioned at the image plane and produces an image of Hartmann-Shack spots of the wavefront. A control electronics acquires the images of the Hartmann-Shack spots in a single measurement. A processing electronics calculates an optical power map of the subject eye with respect to a center of the wavefront and averages the optical power map over the images.

Classifications:
International (IPC 8-9): A61B3/04 A61B3/10 (Advanced/Invention)
CPC: A61B3/1015
US: 351/205 351/221 351/228



Family:

Publication number	Publication date	Application number	Application date
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Priority:
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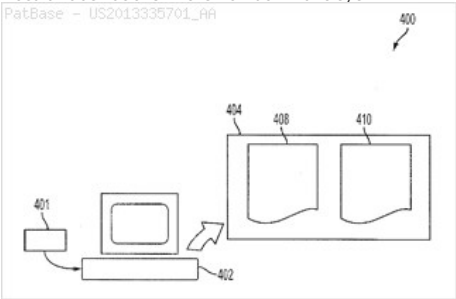
Probable Assignee: SWINGER CASIMIR ANDREW
Assignee(s): (std): SWINGER CASIMIR ANDREW
Inventor(s): (std): SWINGER CASIMIR ANDREW

Title: LENSES, SYSTEMS AND METHODS FOR PROVIDING CUSTOM ABERRATION TREATMENTS AND MONOVISION TO CORRECT PRESBYOPIA

Abstract: Source: US2013335701A A lens, system and/or method for providing custom ocular aberrations for enhanced higher visual acuity. Scaled versions of a patient's aberration pattern may either attenuate or amplify the overall amount of ocular aberrations, to either correct or partially correct a patient's aberrations leading to enhanced visual acuity and/or extended depth of focus. This may be binocularly applied in order to provide high visual acuity in a patient at least at near, far and intermediate distances. The method may include obtaining an optimized binocular summation of both eyes of the patient; designing a first lens solution to correct or partially correct the dominant eye's aberrations according to an attenuated scaled version of a patient's ocular aberrations in the dominant eye; and designing a second lens solution to provide an additional customized extension of depth of focus by the induction of scaled patterns of ocular aberrations in the non dominant eye.

Classifications:

International (IPC 8-9): A61F2/14 A61F2/16 G02C7/02 G02C7/04 (Advanced/Invention)
CPC: G02C7/027 G02C7/04 G02C2202/22 G02C7/028 G02C7/02 A61F2/145 A61F2/16
US: 351/159.74 351/159.77



Family:

Publication number	Publication date	Application number	Application date
AU2012346864 AA	20130606	AU20120346864	20121130
CA2857593 AA	20140530	CA20122857593	20121130
EP2786201 A1	20141008	EP20120834567	20121130
US2013335701 AA	20131219	US20120690505	20121130
WO13080053 A1	20130606	WO2012IB02937	20121130

Priority:
US20110565831P 201111201 US20120690505 20121130 WO2012IB02937 20121130

Probable Assignee: AMO GRONINGEN BV

Assignee(s): (std): AMO GRONINGEN BV ; CANOVAS VIDAL CARMEN ; PIERS PATRICIA ANN ; WEEBER HENDRIK A

Assignee(s): AMO GRONINGEN BVVAN SWIETENLAAN 5NL-9728 NXGRONINGENNL ; AMO GRONINGEN B V

Inventor(s): (std): CANOVAS VIDAL CARMEN ; PIERS PATRICIA ANN ; WEEBER HENDRIK A

Inventor(s): WEEBER HENDRIK ANL ; PIERS PATRICIA ANNNL ; CANOVAS VIDAL CARMENNL

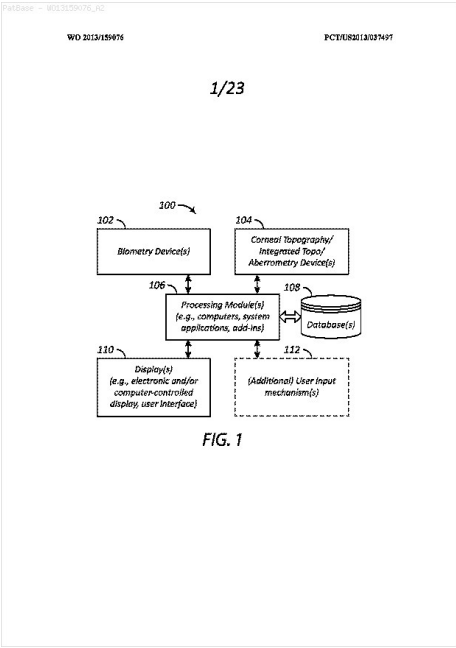
Agent(s): HOFFMANN EITL; SIEGERT G

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: VISION ENHANCEMENT SYSTEMS AND METHODS

Abstract: Vision enhancement systems and methods facilitate determining or estimating an optical alignment of a lens in relation to the visual axis of an eye and applying the optical alignment to an action or process of providing, facilitating, and/or presenting one or more ophthalmic assessments.

Classifications:
International (IPC 8-9): A61B3/10 (Advanced/Invention)
CPC: A61B3/0025



Family:

Publication number	Publication date	Application number	Application date
WO13159076 A2	20131024	WO2013US37497	20130419
WO13159076 A3	20140320	WO2013US37497	20130419

Priority:

US20120635825P 20120419

Probable Assignee: HOYA CORP

Assignee(s): (std): ANELLO ROBERT D ; HOYA CORP

Inventor(s): (std): ANELLO ROBERT D

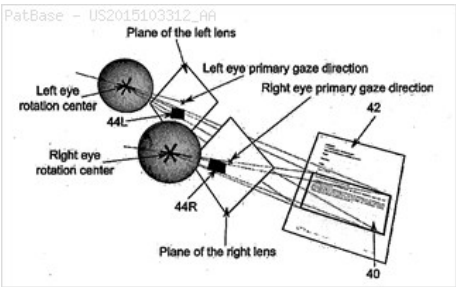
Agent(s): HOLMES PETER L

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

Title: PROCESS FOR DETERMINING A PAIR OF PROGRESSIVE OPHTHALMIC LENSES

Abstract: Source: US2015103312A A process for determining a pair of personalized progressive ophthalmic lenses. and a computer program product associated to these processes. Right-handed persons and left-handed persons behave very differently when executing certain near vision tasks, such as writing on a sheet of paper. However, current lens designs do not take into account these behaviour differences. The comfort of wearing a pair of ophthalmic lenses can be improved for the wearer for whom the lenses are intended by adapting his near vision according to his handedness.

Classifications:
International (IPC 8-9): A61B3/00 G02C1/00 G02C13/00 G02C7/02 G02C7/06 G06Q30/06 (Advanced/Invention)
CPC: G02C7/063 G06Q30/0621 A61B3/0025 G02C7/061 G02C13/005 G02C2202/04 G02C7/025 G02C7/028 G02C7/06 G06Q30/0633 G02C7/066 G02C7/021 G02C7/027
US: 351/159.42 351/159.43 351/159.74 351/159.77 351/204 351/246 705/26.8



Family:

Publication number	Publication date	Application number	Application date
AU2013283260 AA	20140103	AU20130283260	20130628
AU2013283264 AA	20140103	AU20130283264	20130628
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CN104380178 A	20150225	CN201380026791	20130628
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EP2867720 A1	20150506	EP20130732167	20130628
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WO14001490 A1	20140103	WO2013EP63602	20130628
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Priority:
EP20120305772 20120629 EP20130305189 20130220 EP20130305191 20130220
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Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT CIE GENERALE D OPTIQUE ; ESSILOR INT CIE GERERALE G OPTIQUE ; ESSILOR INT
Assignee(s): ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; CONTET AUDE ; ESSILOR INT COMPAGNIE GERERALE G OPTIQUE ;
ESSILOR INT COMP GENERALE DOPTIQUE ; VIALET STEPHANIE ; POULAIN ISABELLE ; PAILLE DAMIEN ; ROUSSEAU
BENJAMIN ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE147, RUE
DE PARISF-94220CHARENTON LE PONTFR ; GUILLOUX CYRIL ; KARIOTY FARID

Inventor(s): (std): CONTET AUDE ; GUILLOUX CYRIL ; KARIOTY FARID ; PAILLE DAMIEN ; POULAIN ISABELLE ; ROUSSEAU BENJAMIN ;
VIALET STEPHANIE

Inventor(s): VIALET STEPHANIEFR ; VIALET STHPANIE ; ROUSSEAU BENJAMINFR ; POULAIN ISABELLEFR ; PAILLE DAMIENFR ; KARIOTY
FARIDFR ; GUILLOUX CYRILFR ; CONTET AUDEFR

Agent(s): CABINET PLASSERAUD; BOUROUT GAELE 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 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