

Search history

Search lens* and polariz* and (pattern or ridge or valley or groove) and wire (Results 191)

1:

Search 1 and efficien* and deposit* (Results 20)

2:

Search 2 and ic=(g02) (Results 13)

3:

Search US20100283957 (Results 0)

4:

Search PN=(US20100283957) (Results 1)

5:

Search [SP]: cross reference to related applications the present application is a continuation-in-part of commonly assigned co-pending u.s. patent application ser. no. 12/248,342 filed 9 oct. 2008 by matera et al. and entitled polarized eyewear. field of the invention the present invention relates generally to polarizing sunglasses and other types of eyewear and more particularly relates to polarized eyewear embodiments in 3d imaging and in variable opacity eyewear. background of the invention polarized lenses have been used in sunglasses and other types of eyewear for a number of years and have proved to be of particular value in reducing glare and other potentially irritating effects for the wearer. the conventional fabrication method for polarizer material uses a layering in which a sheet of polarized film material is sandwiched or laminated between outer layers of a glass or plastic. the polarizer material itself is a thin sheet of polymer that has its molecules aligned or oriented, such as by stretching in one direction. subsequent treatment, such as with dyes and lamination, forms a single axis polarizer sheet that can then be used for sunglasses and other eyewear. it is known that glare is predominantly horizontally polarized light, since horizontally polarized light reflects much more strongly off a flat surface than does vertically polarized light. therefore, in order to minimize glare and reduce excessive outdoor brightness, polarizing sunglasses are generally designed to block a higher percentage of horizontally polarized light and transmit a portion of vertically polarized light. referring to fig. 1, incoming light from the sun or other bright source impinges on a horizontal object 10 having a top specular surface 11. surface 11 could be, for example, a thin layer of water covering object 10. light reflecting off specular surface 11 is glare. the incoming sunlight or other light is unpolarized or randomly polarized light. light reflected from surface 11 is more highly s-polarized, as represented schematically in fig. 1 light scattered from object 10 just under top surface 11 is commonly unpolarized. well-designed polarized eyewear 12, with its polarization transmission axis well-aligned, generally blocks s-polarized light and transmits p-polarized light. for conventional polarized sunglasses, for example, a vertical transmission axis, shown as v in fig. 1, is most appropriate. having a suitable polarization axis, then, helps polarized sunglasses to reduce glare and other effects. however, in practice, maintaining the best polarization axis for viewing through polarized eyewear can be difficult. certainly, some amount of viewer head movement is inevitable and can be difficult to compensate while maintaining desired polarization. but a more significant problem for maintaining the preferred polarization axis relates to lens shape and sunglass design. conventional polarizers do not easily adapt to "wraparound" lens shapes or to more highly curved spherical and "sun-lens" designs. designs that require more than minimal bending and curving of the polarized plastic and designs with curvature about more than one axis tend to cause inconsistent and non-uniform stretching of the polarizer material and can easily warp and degrade the performance of the polarizer film. further, fabrication methods such as thermoforming, commonly used to bend and adapt plastic materials to conform to a given shape or curvature, can induce stress into the polarizer material, thereby deforming any parallel molecular pattern that was provided for obtaining polarization in the first place. a stretched pattern of molecules can be warped out of their intended alignment by any type of shaping operation, making the corresponding polarizer less effective, compromising the extinction ratio in an irregular fashion over the lens surface, leading to an inconsistent polarization pattern across the field of view, and even introducing image aberrations and artifacts into the lens. in extreme cases, this effect can be distracting, can lead to image distortion, and might even be hazardous for the viewer. yet another problem with conventional polarizer fabrication relates to waste. because of the nature of handling thin plastic substrates, stretching of the polarizer film itself is a relatively imprecise process that is difficult to control, and the end-product is often subject to non-uniformity. it has proven to be difficult to provide the uniform stress pattern needed for maintaining a polarization axis and relative success or failure may not be known until after fabrication has been completed. this, in turn, leads to reduced yields. because of these problems, polarized lens material, available only for designs with limited curvatures, more uniform cylindrical curvatures, and simpler shapes, is often difficult to adapt to eyewear design and consumer tastes. difficulties in controlling the polarization axis for any particular lens shape constrain the ability of lens designers to take advantages of inherent strengths and benefits of polarizers for the eyeglass wearer. photochromic materials that become increasingly opaque upon exposure to light have been used for providing sunglasses that adapt their opacity to the ambient light level. conventional photochromic sunglasses exhibit this behavior according to the relative levels of incident ultraviolet (uv) light, so that the same pair of sunglasses can be worn in bright sunlight and in shaded or indoor lighting conditions. under bright sunlight, uv levels are high and the photochromic coatings become proportionately more opaque. when the same glasses are worn indoors, the photochromic effect is reversed, with the lens coatings becoming proportionately more transparent. while the photochromic effect has been found useful for blocking suitable amounts of light under various conditions, however, there are shortcomings to conventional designs. one drawback relates to relatively slow response times, making photochromic behavior less desirable where brightness transitions are sudden and extreme, or where light is intense over only a small portion of the field. another problem relates to poor spectral response of many photochromic materials for light outside the uv range. because of these and related problems, there is limited applicability of photochromic benefits to industrial, transportation, or defense safety using conventional design approaches. thus, it can be appreciated that there would be advantages for polarized eyewear having variable opacity and capable of responding more quickly to a range of possible incident light conditions. summary of the invention it is an object of the present invention to advance the art of polarized and photochromic eyewear. with this object in mind, the present invention provides an article of polarized eyewear having a lens, wherein the lens comprises: a first substrate lens material transparent to visible light; a pattern of elongated structures formed from at least a second material having a complex index of refraction, wherein the second material is deposited directly onto a curved surface of the first substrate lens material, wherein a pitch between adjacent elongated structures is less than 300 nm and a width of each elongated structure is less than 90 percent of the pitch; and a photochromic material deposited onto the polarized eyewear. it is a feature of the present invention that it applies form-birefringence or structured-birefringence to polarized eyewear. the apparatus and method of the present invention provide polarized eyewear having improved absorption and reflection properties for reducing glare and having a number of advantages related to fabrication technique. it is an advantage of the present invention that it provides polarized eyewear that allows adaptation to highly curved lens designs and is generally more flexible and adaptable than the conventional stretched-substrate polarizer solutions. it is a further advantage of the present invention that it provides polarized eyewear with reduced back reflection due to light from behind the lenses. a further advantage of the present invention relates to the capability to change the relative opacity of an eyeglass lens or related eyewear to accommodate incident light conditions or viewer preference. these and other aspects, objects, features and advantages of the present invention will be more clearly understood and appreciated from a review of the following detailed description of the preferred embodiments and appended claims, and by reference to the accompanying drawings. brief description of the drawings fig. 1 is a schematic diagram showing the operation of polarized eyewear. fig. 2 is a schematic diagram in perspective view of the basic function of a wire grid polarizer with dimensional attributes. fig. 3 shows a top view of a lens in a polarized eyewear apparatus in one embodiment and its effect on transmitting the vertical polarization and reducing the horizontal polarization. fig. 4 is a top view of a lens in a polarized eyewear apparatus, showing the effect of reducing the back reflection in both the vertical and horizontal polarizations. fig. 5a shows the eyewear with reference directional cross sections in the horizontal and vertical directions. fig. 5b is a vertical cross-sectional view of elongated structures forming a wire grid polarizer on a curved substrate with the transmitted and reflected light shown. fig. 5c shows a vertical cross sectional view of a double stack wire grid according to one embodiment, formed on a curved substrate with the transmitted and reflected light shown. (Results 48)

Search 6 and lens* (Results 32)

7:

Search 7 and polariz* (Results 21)

8:

Search ophthalmic and lens* and polariz* and deposit* (Results 53)

9:

Search 9 and eye* (Results 18)

10:

Search 9 and (pattern or diff* or ridge or groove or valley) (Results 31)

11:

Search 11 and ic=(g02) (Results 29)

12:

Title: METHOD FOR MANUFACTURING **POLARIZED OPTHALMIC LENSES**

Abstract: Source: US2009079934A The present invention relates to a method for manufacturing a **polarized lens**. In one embodiment, the method includes the steps of treating a **polarized** film with a composition to form a treated **polarized** film, providing a front **lens** mold having a concave surface with a curvature, spin-coating a hard coat composition onto the concave surface of the front **lens** mold to form a hard coat layer thereon, forming a first adhesive layer on the hard coat layer, placing the treated **polarized** film on the adhesive layer, curing the adhesive layer with UV or visible light to bond the treated **polarized** film to the hard coat layer, thereby forming a **polarized** front **lens** mold, and forming a **polarized lens** with the **polarized** front **lens** mold.

Classifications:

International (IPC 8-9): B29D11/00 G02B3/00 G02C7/02
G02C7/12 (Advanced/Invention);

B29D11/00 G02B3/00 G02C7/00 (Core/Invention)

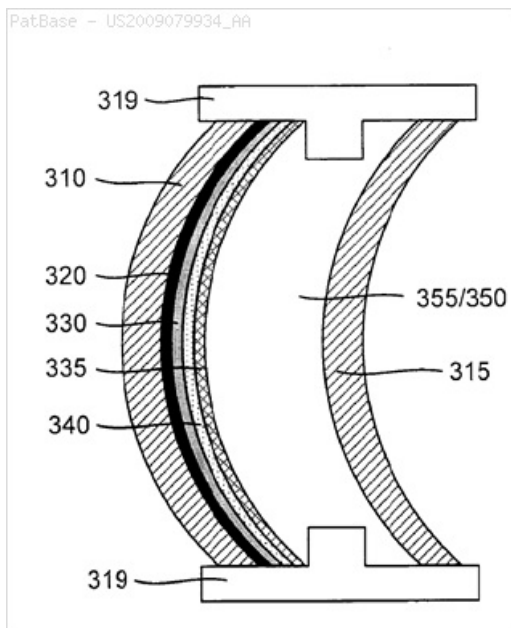
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CPC: B29D11/0073

European: B29D11/00H

US: 264/1.1 264/1.32 264/1.7 264/1.700S 351/159.56 351/159.560P
351/163 351/177

PatBase - US2009079934_AA



Family:

Publication number	Publication date	Application number	Application date
AU2008304553 AA	20090402	AU20080304553	20080924
AU2008304553 BB	20130214	AU20080304553	20080924
CA2700548 AA	20090402	CA20082700548	20080924
CA2700548 C	20140819	CA20082700548	20080924
CN101932435 A	20101229	CN200880117407	20080924
DE602008039696 D1	20151001	DE200860039696T	20080924
EP2203300 A1	20100707	EP20080833376	20080924
EP2203300 A4	20140806	EP20080833376	20080924
EP2203300 B1	20150819	EP20080833376	20080924
ES2550756 T3	20151112	ES20080833376T	20080924
IN00773MN2010 A	20100827	IN2010MN00773	20100416
US2009079934 AA	20090326	US20080236897	20080924
US7942523 BB	20110517	US20080236897	20080924
WO09042660 A1	20090402	WO2008US77482	20080924

Priority:

EP20080833376 20080924 US20070974515P 20070924 US20080236897 20080924
WO2008US77482 20080924

Probable Assignee: QSPEX TECHNOLOGIES INC

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Assignee(s): TECHNOLOGY RESOURCE INT ; QSPEX TECHNOLOGIES INC ALPHARETTA ; QSPEX TECHNOLOGIES INC1525 BLUEGRASS LAKES PARKWAYALPHARETTAGA30004US

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Agent(s): GRIFFITH HACK; GOWLING LAFLEUR HENDERSON LLP; JORDAN VOLKER OTTO WILHELM; DENNEMEYER AND ASSOCIATES SA; VALLEJO JUAN PEDRO; MORRIS MANNING MARTIN LLP; TIM TINGKANG; MORRIS MANNING AND MARTIN LLP; HARRIS JOHN R 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: PRODUCTION OF OPTICAL ELEMENTS

Abstract: Source: US2001035935A A method of making an optical element that includes a thermoplastic power portion, the method including laminating a first thermoplastic sheet to one side of a functional film, laminating a second thermoplastic sheet to a second side of the functional film, and affixing either the first thermoplastic sheet or the second thermoplastic sheet to the power portion, with the other of the first or second thermoplastic sheets being open to atmosphere.

Classifications:

International (IPC 8-9): B29C45/14 B29C45/56 B29D11/00

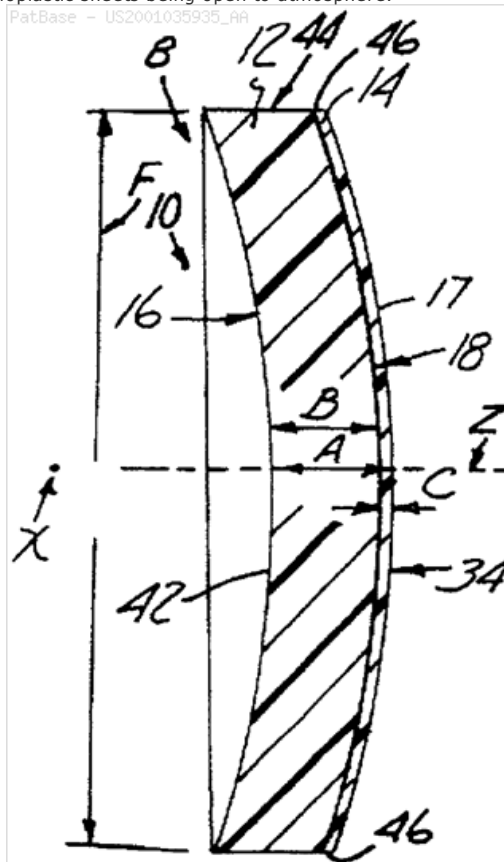
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G02C7/02 G02C7/06 G02C7/10 G02C7/12 (Advanced/Invention)

International (IPC 1-7): B05D5/06 B29C45/56 B29D11/00 B32B9/04
G02B1/04 G02B3/00 G02B3/10 G02C7/02 G02C7/06 G02C7/10
G02C7/12

CPC: G02B1/041 G02C7/102 Y10T428/269 Y10T428/31504
Y10T428/31507 Y10T428/31515 Y10T428/31551 Y10T428/31935
B29D11/00028 B29D11/0073 B29K2995/0034 B29L2011/0016
B29L2011/0033 B32B27/00 B32B27/06 G02C7/06 G02C2202/16
B29D11/00653 G02C7/12 B32B7/12 B32B27/304 B32B27/306
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B32B2377/00 B32B2398/20 B29C45/14811 B32B27/08

European: B29C45/14Q4 B29D11/00C3 B29D11/00H B32B27/00
B32B27/06 B32B27/08 G02C7/06 G02C7/10 G02C7/12
L29K995/00E10 L29L11/00C L29L11/00C4

US: 156/99 264/1.32 264/1.320S 264/1.7 264/17 264/2.7 351/159
351/159.01 351/159.010S 351/159.48 351/159.56 351/159.560P
351/159.61 351/159.62 351/159.620P 351/159.75 351/159.750S
351/159P 351/163 351/164 351/165 351/166 351/168 351/177
351/177S 359/166 359/721 427/160 427/162 427/162S 427/164
427/164S 427/169 428/339 428/411.1 428/411.100P 428/412
428/412S 428/414 428/423.1 428/522

**Family:**

Publication number	Publication date	Application number	Application date
DE69632249 D1	20040527	DE19966032249	19960301
DE69632249 T2	20050714	DE19966032249T	19960301
DE69632249 T3	20110818	DE19966032249T	19960301
DE69638486 D1	20120621	DE19966038486	19960301
EP0814956 A1	19980107	EP19960908587	19960301
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EP0814956 B2	20101215	EP19960908587	19960301
EP1464479 A2	20041006	EP20040009085	19960301
EP1464479 A3	20050105	EP20040009085	19960301
EP1464479 B1	20120425	EP20040009085	19960301
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US2002196408 AA	20021226	US20020183088	20020626
US2006182972 AA	20060817	US20060398819	20060405
US2011317125 AA	20111229	US20110229503	20110909
US2012218511 AA	20120830	US20120463504	20120503
US2014104564 AA	20140417	US20130106348	20131213
US5757459 A	19980526	US19950454934	19950531
US5827614 A	19981027	US19960631924	19960415
US5856860 A	19990105	US19970905432	19970804
US6328446 BA	20011211	US19990425517	19991022
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WO9627496 A1	19960912	WO1996US02777	19960301

Priority:

EP19960908587 19960301	EP20040009085 19960301	US19960631924 19960415
US19970905432 19970804	US19950454934 19950531	US19950397949 19950303
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US20120463504 20120503	US20130106348 20131213	

Probable Assignee: VISION EASE LP

Assignee(s): (std): BHALAKIA SUJAL ; BMC IND INC ; VISION EASE LENS INC ; MORAVEC THOMAS J ; VISION EASE LENS ; INSIGHT EQUIT A P X L P ; INSIGHT EQUITY A P X LP ; INSIGHT EQUITY A P X L P

Assignee(s): PNC BANK NATIONAL ASSOCIATION REVOLVING AGENT AS ; PNC BANK NATIONAL ASSOCIATION TERM LOAN AGENT AS ; REGIMENT CAPITAL SPECIAL SITUATIONS FUND IV LP AGENT AS ; VISION EASE LP F N A INSIGHT EQUITY AP X LP ; VISION EASE LP ; INSIGHT EQUITY APX LP RAMSEY ; REGIMENT CAPITAL SPECIAL SITUATIONS FUND IV LP AGE ; INSIGHT EQUITY APX LP ; INSIGHT EQUITY A P X ; INSIGHT EQUIT APX ; INSIGHT EQUIT APX LP ; ANTARES CAPITAL LP ADMINISTRATIVE AGENT AS ; ANTARES CAPITAL LP SUCCESSOR AGENT AS ; INSIGHT EQUITY APX ; INSIGHT EQUITY AP X LP ; PNC BANK NATIONAL ASSOCIATION ; ORIX FINANCE CORP ; REGIMENT CAPITAL SPECIAL SITUATIONS FUND IV LP ; BMC INDUSTRIES INC ; DEUTSCHE BANK TRUST CO ; DEUTSCHE BANK TRUST CO AMERICAS WAS KNOWN AS BANLE ; DEUTSCHE BANK TRUST CO AMERICAS WAS KNOWN AS BANLERS TRUST COMPANY AS AGENT.. ; GENERAL ELECTRIC CAPITAL AGENT AS CORP

Inventor(s): (std): BHALAKIA SUJAL ; BHALAKIA SUJAL N ; MORAVEC THOMAS J

Inventor(s): MRAVEC THOMAS J ; MORAVEC THOMAS

Agent(s): BOWMAN PAUL ALAN; INSKEEP INTELLECTUAL PROPERTY GROUP INC; INSKEEP IP GROUP INC

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

Title: APPARATUS FOR CONFORMING A PLANAR FILM ON AN OPTICAL LENS, METHOD FOR FUNCTIONALIZING AN OPTICAL LENS BY MEANS OF SAID APPARATUS, THE OPTICAL LENS SO-OBTAINED

Abstract: Source: US2008314499A The present invention relates to an apparatus for conforming a functionalized flexible planar film on an optical lens. The apparatus according to the invention may also be used in a process of functionalization of an optical lens. As a factor of the functionalization that one wishes to introduce into said optical lens and the nature of the functionalized flexible planar film used, the functionalization process is a process of gluing, transfer, or molding of a functionalized flexible planar film onto an optical lens. The implementation of each of these respective processes makes it possible to obtain a functionalized optical lens, said functionalization being adhered, transferred, or molded using a functionalized flexible planar film.

Classifications:

International (IPC 8-9): B29C63/02 B29C63/16 B29C65/00 B29C65/48 B29D11/00 B30B5/00 B30B5/02 B32B37/00 B32B37/10 B32B37/12 B32B41/00 G02B1/10 G02B1/11 G02B27/26 G02B3/00 G02B5/30 G02C7/00 G02C7/02 G02C7/06 G02C7/12 (Advanced/Invention); B29C63/00 B29C65/00 B29D11/00 B32B37/10 B32B37/12 (Advanced/Non-invention); B29C63/02 B29C65/00 B29C65/48 B29D11/00 B30B5/00 B32B37/00 B32B37/10 B32B37/12 B32B41/00 G02B1/10 G02B3/00 G02C7/00 G02C7/02 (Core/Invention); B32B37/10 B32B37/12 (Core/Non-invention)

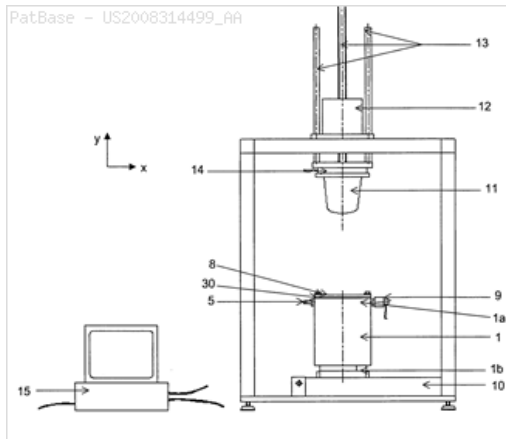
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B29D11/0073 B29L2011/0016 Y10T156/10

European: B29C63/00U B29C63/02 B29C63/16 B29D11/00H L29C63/00U L29L11/00C

US: 156/152 156/230 156/247 156/247S 156/248 156/251 156/350 156/350S 156/351 156/358 156/359 156/359S 156/367 156/367S 156/368 156/378 156/379 156/379.6 156/379.600S 156/382 156/382S 156/580 156/580S 156/60 156/60S 156/64 156/64P 351/159 351/159.01 351/159.010S 351/159.72 351/159.73 351/159S 359/465 359/465P



Family:

Publication number	Publication date	Application number	Application date
AU2006232793 AA	20061012	AU20060232793	20060404
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FR2883984 B1	20070622	FR20050003306	20050404
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IN281047 B	20170310	IN2007KN03481	20070917
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US2012013980 AA	20120119	US20110186696	20110720
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WO06105999 A1	20061012	WO2006EP03972	20060404

Priority:

FR20050003306 20050404 JP20080504712 20060404 US20080910557 20080611
US20110186696 20110720 WO2006EP03972 20060404

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): BEGON CEDRIC ; DEFRANCO CHRISTELLE ; ESSILOR INT ; ESSILOR INT CIE GENERAL D ; ESSILOR INTERNAT CIE GENERAL D ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; MENGES GILLES

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

Inventor(s): (std): BEGON CEDRIC ; BEGON CEDRIC C O ESSILOR INT ; CEDRIC BEGON ; CHRISTELLE DEFRANCO ; DEFRANCO CHRISTELLE ; DEFRANCO CHRISTELLE C O ESSILOR INT ; GILLES MENGES ; MENGES GILLES C O ESSILOR INT

Inventor(s): BEGON CDRIC ; BEGON CE DRIC

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; HERBERT SMITH FREEHILLS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CABINET PLASSERAUD; OCCHIUTI ROHLICEK AND TSAO LLP;

OCCHIUTI AND ROHLICEK 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

Abstract: Source: US2015301356A **Lenses**, devices, apparatus, systems, methods of manufacturing and fabricating an **ophthalmic lens** device for correction of human vision. The **ophthalmic lens** device includes at least one **diffractive** waveplate coating with an optical axis orientation **pattern** designed to correct the vision of individual patients. The **ophthalmic lens** device including **diffractive** waveplate coating may also provide a portion of the required vision correction by means of refraction of light by curved surfaces of a dielectric material.

International (Apc 8-9): A61F2/16 G02B27/42 G02B3/00 G02B3/10 G02B5/00 G02B5/18 G02B5/30 G02B6/024 G02B6/35 G02C7/02 G02C7/06 G02C7/08 G02C7/10 G02C7/12 (Advanced/Invention); G02C7/10 (Advanced/Non-invention)

CPC: A61F2/1654 G02C7/10 G02B27/4211 G02B27/4216
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G02B5/001 G02B5/1833 G02C7/022 G02B27/4261 G02B27/4205
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[illegible]

Publication number	Publication date	Application number	Application date
CA2946693 AA	20161014	CA20152946693	20150416
EP3132307 A1	20170222	EP20150779550	20150416
EP3132307 A4	20170405	EP20150779550	20150416
JP2017529128 T2	20171005	JP20170506626T	20150416
US2015301356 AA	20151022	US20150688540	20150416
US2016047955 AA	20160218	US20150688256	20150416
US2016047956 AA	20160218	US20150688425	20150416
US2016209560 AA	20160721	US20150688197	20150416
US2018039003 A9	20180208	US20150688256	20150416
US9753193 BB	20170905	US20150688540	20150416
WO15161084 A1	20151022	WO2015US26186	20150416

US20100697083	20100129	US20130916627	20130613	US20140980062P	20140416
US20150688256	20150416	US20150688425	20150416	US20150688197	20150416
US20150688540	20150416	WO2015US26186	20150416		

Assignee(s): (std): BEAM ENG FOR ADVANCED MEASUREMENTS CO ; BEAM ENGINEERING FOR ADVANCED MEASUREMENTS CO ; KIMBALL BRIAN R ; ROBERTS DAVID E ; TABIRIAN ANNA ; TABIRIAN NELSON V ; STEEVES DIANE M ; SERAK SVETLANA V ; USKOVA OLENA

Inventor(s): (std): ROBERTS DAVID E ; TABIRIAN ANNA ; TABIRIAN NELSON V ; USKOVA OLENA ; STEEVES DIANE M ;
SERAK SVETLANA V ; KIMBALL BRIAN R

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

Title: CONTACT LENSES WITH EMBEDDED LABELS

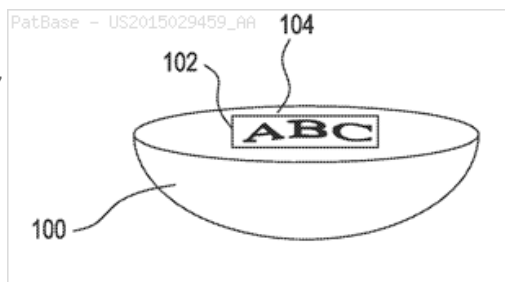
Abstract: Source: US2015029459A An **ophthalmic lens** incorporating clearly identifiable, highly visible embedded labels that are not visible to the wearer or others when placed on the eye may be utilized to allow an individual to easily distinguish between the normal state of the **lens** and the inverted state of the **lens** as well as serve any number of functions, including acting as a brand label, a prescription label or as a cosmetic enhancer. The embedded label comprises holographic recordings revealed only in transmitted light.

Classifications:

International (IPC 8-9): B29D11/00 B32B37/00 B32B37/24
B32B38/00 B32B43/00 G02B1/04 G02B27/26 G02B5/18 G02B5/32
G02C11/00 G02C7/02 G02C7/04 G02C7/12 G02F1/1334 G02F1/1337
G03F7/26 G03H1/02 G03H1/04 G09F3/00
G11B7/24044 (Advanced/Invention);
B29K105/00 (Advanced/Non-invention);
G02B (Subclass/Invention)

CPC: G02C7/021 G02B1/043 B29D11/00125 B29D11/00317
B29K2105/0079 B29K2995/0018 B32B37/025 B32B37/24
B32B38/0008 B32B43/006 B32B2037/243 B32B2038/0068
B32B2305/55 B32B2307/418 B32B2310/0806 B32B2551/00
G03F7/26 G02C7/04

US: 1/1 156/234 156/246 351/158 430/324



Family:

Publication number	Publication date	Application number	Application date
AU2014204546 AA	20150212	AU20140204546	20140722
AU2014204546 BB	20180222	AU20140204546	20140722
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CA2856469 AA	20150125	CA20142856469	20140709
CN104345475 A	20150211	CN201410360024	20140725
DE602014004313 D1	20161201	DE201460004313T	20140724
EP2848965 A2	20150318	EP20140178412	20140724
EP2848965 A3	20150520	EP20140178412	20140724
EP2848965 B1	20161019	EP20140178412	20140724
EP3139201 A1	20170308	EP20160192485	20140724
HK1207906 A1	20160212	HK20150108515	20150901
IN02065DE2014 A	20160429	IN2014DE02065	20140721
JP2015026075 A2	20150205	JP20140150465	20140724
KR20150013056 A	20150204	KR20140093706	20140724
RU2014129775 A	20160210	RU20140129775	20140718
RU2583342 C2	20160510	RU20140129775	20140718
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SG10201601253V A1	20160330	SG20161001253	20140709
TW201523068 A	20150616	TW20140125135	20140722
US2015029459 AA	20150129	US20130950389	20130725
US2016011435 AA	20160114	US20150865630	20150925
US9195072 BB	20151124	US20130950389	20130725
US9304328 BB	20160405	US20150865630	20150925

Priority:

EP20140178412 20140724 US20130950389 20130725 US20150865630 20150925

Probable Assignee: JOHNSON AND JOHNSON VISION CARE INC

Assignee(s): (std): DZHONSON END DZHONSON VIZHN KEA INK ; JOHNSON AND JOHNSON VISION CARE

Assignee(s): JOHNSON AND JOHNSON VISION CARE INC ; JOHNSON AND JOHNSON VISION CARE INC
JACKSONVILLE ; TOLOZA RAFAEL VERGARA ; SPAULDING RUSSELL T ; TABIRIAN NELSON V

Inventor(s): (std): NELSON V TABIRIAN ; RAFAEL VERGARA TOLOZA ; RUSSELL T SPAULDING ; SPAULDING RUSSELL ;
SPAULDING RUSSELL T ; SPOLDING RASSELL T ; TABIRIAN NELSON ; TABIRIAN NELSON V ; TABIRION
NELSON V ; TEBIRIAN NELSON V ; TOLOZA RAFAEL VERGARA ; VERGARA TOLOZA RAFAEL

Inventor(s): VERGARA TOLOZA RAFAEL WINTER PARK ; TABIRION NELSON V WINTER PARK ; SPAULDING RUSSELL
T ST JOHNS

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL;
MUELLER BORE AND PARTNER PATENTANWAELE PARTG MBB; CARPMAELS AND RANSFORD LLP; KATO
MASANOBU; DREW AND NAPIER LLC; CARL J

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

Title: METHOD AND APPARATUS FOR SURGERY OF THE CORNEA USING SHORT LASER PULSES HAVING SHALLOW ABLATION DEPTH

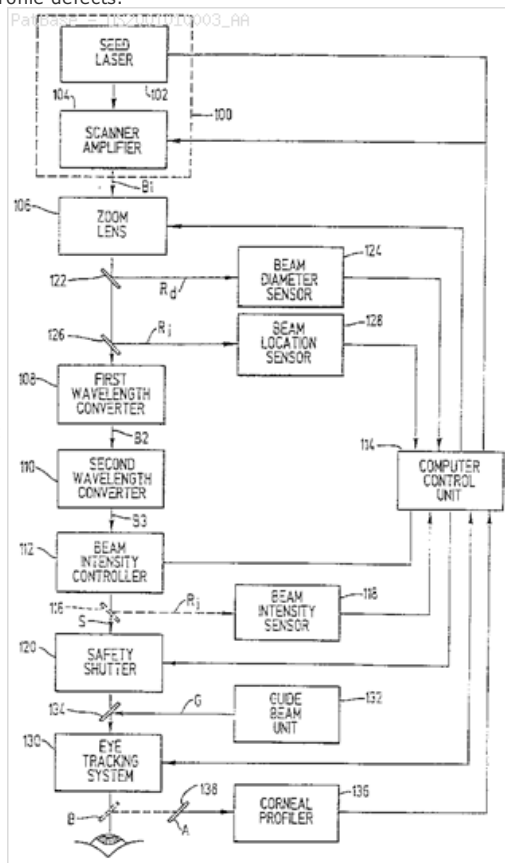
Abstract: Source: US2001010003A A laser-based method and apparatus for corneal surgery. The present invention is intended to be applied primarily to ablate organic materials, and human cornea in particular. The invention uses a laser source which has the characteristics of providing a shallow ablation depth (0.2 microns or less per laser pulse), and a low ablation energy density threshold (less than or equal to about 10 mJ/cm²), to achieve optically smooth ablated corneal surfaces. The preferred laser includes a laser emitting approximately 100-50,000 laser pulses per second, with a wavelength of about 198-300 nm and a pulse duration of about 1-5,000 picoseconds. Each laser pulse is directed by a highly controllable laser scanning system. Described is a method of distributing laser pulses and the energy deposited on a target surface such that surface roughness is controlled within a specific range. Included is a laser beam intensity monitor and a beam intensity adjustment means, such that constant energy level is maintained throughout an operation. Eye movement during an operation is corrected for by a corresponding compensation in the location of the surgical beam. Beam operation is terminated if the laser parameters or the eye positioning is outside of a predetermined tolerable range. The surgical system can be used to perform surgical procedures including removal of corneal scar, making incisions, cornea transplants, and to correct myopia, hyperopia, astigmatism, and other corneal surface profile defects.

Classifications:

International (IPC 8-9): A61B17/00 A61B18/18 A61B18/20 A61B18/26 A61F9/00 A61F9/007 A61F9/008 A61F9/009 A61F9/01 A61N5/02 A61N5/06 B23K26/00 B23K26/03 B23K26/04 B23K26/06 B23K26/42 G02B26/10 G02F1/29 G02F1/37 H01S3/00 H01S3/06 H01S3/101 H01S3/23 (Advanced/Invention); A61B17/00 A61B18/20 A61B18/26 A61F9/007 A61F9/008 A61F9/009 A61N5/02 (Advanced/Non-invention); A61F9/007 B23K26/02 B23K26/06 G02B26/10 G02F1/29 G02F1/35 H01S3/00 H01S3/06 H01S3/101 H01S3/23 (Core/Invention); A61B17/00 A61B18/20 (Core/Non-invention)

International (IPC 1-7): A61B17/32 A61B17/36 A61B18/18 A61B18/20 A61F9/00 A61F9/007 A61F9/01 A61N5/00 A61N5/02 A61N5/06 G02F1/29 G02F1/37 H01S3/00 H01S3/08 H01S3/10 **CPC:** A61B2017/00172 B23K26/043 A61F9/00804 A61F9/00814 B23K26/0096 B23K26/03 B23K26/032 B23K26/04 B23K26/0652 B23K26/0624 B23K26/064 B23K26/704 A61F9/00834 A61F9/00825 A61B18/26 A61B2017/00694 A61F9/00802 A61F9/00827 A61F9/00831 A61F9/009 A61F2009/00846 A61F2009/00863 A61F2009/0087 A61F2009/00872 A61F2009/00874 A61F2009/00876 A61F2009/00887 A61F2009/00889 A61F2009/00891 A61F2009/00895 A61F2009/00897 H01S3/235 B23K26/06 B23K26/0643 B23K26/0648 B23K26/0665 G02B26/10 G02F1/37 H01S3/005 H01S3/06 H01S3/101

European: A61F9/008A A61F9/008A40 A61F9/008D B23K26/00T B23K26/03 B23K26/03B B23K26/04 B23K26/06 B23K26/06C B23K26/06C1 B23K26/06C3 B23K26/06C5 B23K26/06H B23K26/42D4 G02B26/10 G02F1/37 H01S3/00F H01S3/06 H01S3/101 H01S3/23A2R K61B17/00C4P2 K61B17/00Q4 K61B18/26 K61F9/008D1 K61F9/008D2 K61F9/008F1 K61F9/008L1 K61F9/008L4 K61F9/008L5 K61F9/008L6 K61F9/008L7 K61F9/008R1 K61F9/008R1C K61F9/008R2 K61F9/008R4 K61F9/008S K61F9/009 **US:** 351/209 359/347 372/107 372/24 372/25 372/25S 372/26 372/26S 372/92 606/1 606/10 606/107 606/107P 606/10S 606/11 606/11S 606/12 606/13 606/3 606/4 606/4P 606/5 606/5P



Family:

Publication number	Publication date	Application number	Application date
AT218904 E	20020615	AT19920924366T	19921105
AT253880 E	20031115	AT19940914859T	19940420
AT363259 E	20070615	AT19940077774T	19940420
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AU199230697 A1	19930607	AU19920030697	19921105
AU199455405 A1	19940524	AU19940055405	19931026
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AU199674160 A1	19970227	AU19960074160	19961205
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EP0614388 A1	19940914	EP19920924366	19921105
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EP0700310 A1	19960313	EP19940914859	19940420

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EP0700310 B1	20031112	EP19940914859	19940420
EP1159986 A2	20011205	EP20010119190	19921105
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EP1402860 A2	20040331	EP20030077774	19940420
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EP1402860 B1	20070530	EP20030077774	19940420
ES2287407 T3	20071216	ES20030077774T	19940420
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RU94030810 A	19960620	RU19940030810	19940603
US2001010003 AA	20010726	US20010799412	20010305
US2004199150 AA	20041007	US20040801891	20040315
US2006217688 AA	20060928	US20060380627	20060427
US5280491 A	19940118	US19910740004	19910802
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US6706036 BB	20040316	US20010799412	20010305
US7220255 BB	20070522	US20040801891	20040315
WO9303521 A1	19930218	WO1992US06487	19920730
WO9308877 A1	19930513	WO1992US09625	19921105
WO9409849 A1	19940511	WO1993US10271	19931026
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Priority:

AU19920030697	19921105	AU19960074160	19961205	CA19932108951	19931021
EP19920924366	19921105	EP19940914859	19940420	EP19940914859	19940420
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WO1994US04362	19940420				

Probable Assignee: AMO DEVELOPMENT LLC

Assignee(s): (std): LAI SHUI T ; NOVATEC LASER SYSTEMS INC ; SHUI T LAI ; SWINGER CASIMIR A ; SHUJ T LAJ

Assignee(s): SHUJ TLAJ ; AMO DEVELOPMENT LLC ; CASIMIR A SWINGER

Inventor(s): (std): LAI SHUI T ; LAI T ; SHUI T LAI ; SWINGER CASIMIR A ; SHUJ T LAJ ; LAI SHUI

Inventor(s): CASIMIR A SWINGER ; SHUJ TLAJ

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; KIRBY EADES GALE BAKER; OYEN WIGGS GREEN AND MUTALA LLP; JACKSON AND CO LLP; ANDREW V

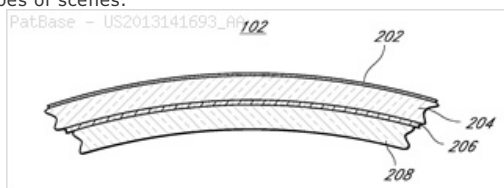
Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG TJ TT UA US UZ VN

Title: EYEWEAR WITH CHROMA ENHANCEMENT

Abstract: Source: US2013141693A Some embodiments provide a **lens** including a **lens** body and an optical filter configured to attenuate visible light in certain spectral bands. At least some of the spectral bands can include spectral features that tend to substantially increase the colorfulness, clarity, and/or vividness of a scene. In certain embodiments, eyewear incorporates an optical filter that enhances chroma within one or more spectral bands. In some embodiments, a wearer of the eyewear can perceive the increase in chroma when viewing at least certain types of scenes.

Classifications:

International (IPC 8-9): B29C45/14 B29C45/16 B29D11/00 G02B1/04 G02B1/11 G02B5/22 G02C7/00 G02C7/02 G02C7/10 G02C7/12 G02F1/157 (Advanced/Invention); B29L11/00 B29L12/00 G02B5/28 (Advanced/Non-invention)
CPC: G02C7/104 G02C7/102 B29C45/14778 B29C45/14819 B29D11/0073 B29D11/00865 B29L2011/0016 B29L2012/005 G02C7/108 G02C7/12 G02B1/11 G02B5/223 G02B5/28 G02C7/086 G02F1/157 G02B1/041 G02C7/101 G02C2202/16 G02C7/02
US: 1/1 351/159.56 351/159.62 351/159.65 351/159.66 351/44



Family:

Publication number	Publication date	Application number	Application date
AU2012336204 AA	20130516	AU20120336204	20121019
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CN104040412 B	20160113	CN201280063007	20121019
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EP2769262 A4	20150401	EP20120848333	20121019
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JP2014531058 T2	20141120	JP20140537296T	20121019
JP2017173843 A2	20170928	JP20170100515	20170522
JP6165749 B2	20170719	JP20140537296T	20121019
SG11201401441Y A1	20140529	SG20141101441	20121019
US2013141693 AA	20130606	US20120656114	20121019
US2015131047 AA	20150514	US20140536214	20141107
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US2016070119 AA	20160310	US20150852235	20150911
US2017102558 AA	20170413	US20160337573	20161028
US2017205639 AA	20170720	US20170474676	20170330
US9134547 BB	20150915	US20120656114	20121019
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WO13169987 A1	20131114	WO2013US40284	20130509

Priority:

AU20120336204	20121019	AU20160259313	20161115	US20100425707P	20101221
US20100324706P	20100415	JP20140537296T	20121019	JP20170100515	20170522
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WO2013US40284	20130509	US20160337573	20161028	US20170474676	20170330

Probable Assignee: OAKLEY INC

Assignee(s): (std): OAKLEY INC

Assignee(s): REYES CARLOS D ; SAYLOR RYAN ; MCCABE BROCK SCOTT

Inventor(s): (std): BROCK SCOTT MCCABE ; CARLOS D REYES ; MCCABE BROCK SCOTT ; REYES CARLOS ; REYES CARLOS D ; RYAN SAYLOR ; SAYLOR RYAN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SIM AND MCBURNEY; AIRD AND BERLIS LLP; AIRD AND BERLIS IP PARTNERSHIP LTD; DANIELSSON MARIA HELENA; KAWAGUCHI YOSHIYUKI; KNOBBE MARTENS OLSON AND BEAR LLP; CHRISTENSEN MICHAEL R

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: METHOD FOR TRANSFERRING A MICRON **PATTERN** ON AN OPTICAL **PATTERN** AND THE THUS OBTAINED OPTICAL **PATTERN**

Abstract: Source: US2008289517A The inventive method consists in transferring a **pattern** (P) onto the optical article (1) in the form of one or several portions of transferable material (3) retained by a pressure-sensitive adhesive material layer (2) and in applying transferable material portions with the aid of a pad by placing the adhesive material layer between the pad and a **pattern** receiving article. The use of the pressure-sensitive adhesive material makes it possible to use the **different** materials in the form of a transferable material. Said method is particularly suitable for producing **patterns**, in particular in the form of holograms on optical **lenses**, in particular **ophthalmic lenses**.

Classifications:

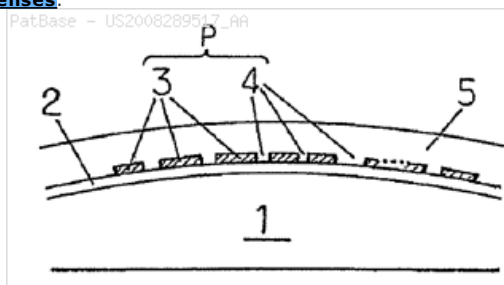
International (IPC 8-9): B41F17/00 B41K3/14 B41M1/30 B41M3/12 G02B1/10 G02B1/11 G02B5/32 G02C7/00 G03H1/00 G03H1/20 (Advanced/Invention); G02C7/04 (Advanced/Non-invention); B41F17/00 B41K3/00 B41M3/12 G02B1/10 G02B5/32 G02C7/00 G03H1/20 (Core/Invention)

International (IPC 1-7): B41F17/00 B41K3/14

CPC: B41F17/001 G03H2240/12 G03H2270/55

European: B41F17/00A S03H240/12 S03H270/55

US: 101/35 101/35P 101/483 351/159



Family:

Publication number	Publication date	Application number	Application date
AU2006323839 AA	20070614	AU20060323839	20061206
AU2006323839 BB	20121011	AU20060323839	20061206
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CA2632390 AA	20080605	CA20062632390	20061206
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CN101365589 A	20090211	CN200680052538	20061206
CN101365589 B	20101215	CN200680052538	20061206
DE602006043469 D1	20141204	DE200660043469T	20061206
EP1957275 A2	20080820	EP20060841873	20061206
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IN02278KN2008 A	20090116	IN2008KN02278	20080609
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JP2009518675 T2	20090507	JP20080543867T	20061206
JP5021670 B2	20120912	JP20080543867T	20061206
KR101421238 B1	20140730	KR20087016466	20061206
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US8205551 BB	20120626	US20060096480	20061206
WO07066007 A2	20070614	WO2006FR02666	20061206
WO07066007 A3	20070726	WO2006FR02666	20061206

Priority:

EP20060841873 20061206 FR20050012485 20051208 WO2006FR02666 20061206

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT CIE GENERALE D OPTIQUE ; BEGON CEDRIC ; DEFRANCO CHRISTELLE ; ESSILOR INT

Assignee(s): ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT SOC ANONYME ; ESSILOR INTERNATIONAL (COMPAGNIE GENERALE... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE SOCIETE ANONYME ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE147 RUE DE PARISF-94220CHARENTON LE PONTFR

Inventor(s): (std): BEGON CEDRIC ; DEFRANCO CHRISTELLE ; CHRISTELLE DEFRANCO ; CEDRIC BEGON

Inventor(s): DEFRANCO CHRISTELLEFR ; BEGON CEDRICFR

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; HERBERT SMITH FREEHILLS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CABINET PLASSERAUD; LEHMANN MARIA ISABEL; OCCHIUTI ROHLICEK AND TSAO 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 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: METHOD FOR TRANSFERRING A MICRON **PATTERN** ON AN OPTICAL **PATTERN** AND THE THUS OBTAINED OPTICAL **PATTERN**

Abstract: Source: US2008316558A A **pattern** (P) is transferred onto an optical article (1) in the form of one or more portions of a transferable material (3, 4b) retained by a layer of latex (2). The portion or portions of transferable material are applied with a stamp after the layer of latex has been formed on the article and before the latex is dry. By using latex as the adhesive material, the nature of the transferable material may vary widely. Such a method is particularly suitable for producing **patterns** such as holograms on optical **lenses**, especially **ophthalmic lenses**. The layer of latex may also protect the product against shocks which may subsequently be received.

Classifications:

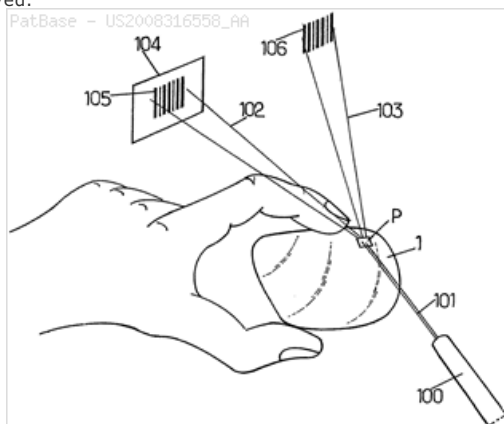
International (IPC 8-9): B29C43/32 B41F1/18 B41F17/00 B41K1/38 B41K3/14 B41M3/12 G02B3/00 G02B5/18 G02B5/30 G02B5/32 G02C7/00 G02C7/02 G03H1/18 G03H1/20 (Advanced/Invention); B41F1/00 B41F17/00 B41K3/00 B41M3/12 G02B3/00 G02B5/18 G02B5/30 G02B5/32 G02C7/00 G02C7/02 G03H1/18 G03H1/20 (Core/Invention)

International (IPC 1-7): B41F17/00

CPC: Y10S977/887 B41F17/001 G03H2270/55

European: B41F17/00A S03H270/55

US: 101/327 101/368 101/450.1 101/450.100S 264/293 264/319 351/159 351/159.73 359/15 359/15S 359/19 359/19P 359/558 435/5 977/887



Family:

Publication number	Publication date	Application number	Application date
AT461815 E	20100415	AT20060841872T	20061206
AU2006323921 AA	20070614	AU20060323921	20061206
AU2006323921 BB	20120524	AU20060323921	20061206
BRP10619528 A2	20111004	BR2006P119528	20061206
CA2632525 AA	20080530	CA20062632525	20061206
CA2632525 C	20140916	CA20062632525	20061206
CN101326058 A	20081217	CN200680046229	20061206
CN101326058 B	20110525	CN200680046229	20061206
DE602006013186 D1	20100506	DE200660013186T	20061206
EP1957274 A2	20080820	EP20060841872	20061206
EP1957274 B1	20100324	EP20060841872	20061206
FR2894515 A1	20070615	FR20050012492	20051208
FR2894515 B1	20080215	FR20050012492	20051208
IN02160KN2008 A	20090116	IN2008KN02160	20080529
JP2009518674 T2	20090507	JP20080543866T	20061206
JP5424645 B2	20140226	JP20080543866T	20061206
KR101370552 B1	20140306	KR20087016576	20061206
KR20080080360 A	20080903	KR20087016576	20061206
PT1957274 T	20100625	PT20060841872T	20061206
US2008316558 AA	20081225	US20060095966	20061206
US7874671 BB	20110125	US20060095966	20061206
WO07066006 A2	20070614	WO2006FR02665	20061206
WO07066006 A3	20070726	WO2006FR02665	20061206

Priority:

FR20050012492 20051208 WO2006FR02665 20061206

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): DEFRANCO CHRISTELLE ; ESSILOR INT

Assignee(s): ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT SOC ANONYME ; ESSILOR INTERNATIONAL (COMPAGNIE GENERALE... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE SOCIETE ANONYME ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE SOC ANONYME ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE147 RUE DE PARISF-94220CHARENTON LE PONTFR

Inventor(s): (std): CHRISTELLE DEFRANCO ; DEFRANCO CHRISTELLE

Inventor(s): DEFRANCO CHRISTELLEFR

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CABINET PLASSERAUD; OCCHIUTI ROHLICEK AND TSAO 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 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: **POLARIZING** OPTICAL ELEMENT COMPRISING A **POLARIZING** FILM AND METHOD FOR MANUFACTURING SUCH ELEMENT

Abstract: Source: US2007195422A A **polarizing** optical element comprises a transparent optical base element and a layered structure that incorporates a **polarizing** film. The **polarizing** film is of the dichroic dye type and is oriented uniaxially. The layered structure is bonded to the optical base element by means of a layered structure that includes at least one layer of a pressure-sensitive adhesive. Thanks to the use of pressure-sensitive adhesive, the **polarizing** film during the bonding operation maintains a high **polarization** efficiency and an optical quality compatible with many applications of the optical element, especially **ophthalmic** applications.

Classifications:

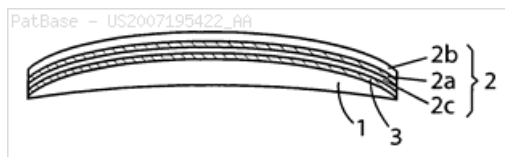
International (IPC 8-9): B29D11/00 B29L11/00 B32B27/00 B32B27/30 G02B1/04 G02B1/08 G02B27/28 G02B3/00 G02B5/30 G02C7/06 G02C7/12 (Advanced/Invention); B29D11/00 B29L11/00 G02B1/04 G02B5/30 (Advanced/Non-invention); B29D11/00 B32B27/00 G02B1/04 G02B1/08 G02B27/28 G02B3/00 G02B5/30 G02C7/00 G02C7/06 (Core/Invention); B29D11/00 (Core/Non-invention)

International (IPC 1-7): G02B5/30

CPC: B29C66/545 G02B5/3033 B29C63/16 B29C66/81455 B29D11/00644 B29D11/0073 B29L2011/0016 G02B1/08 B29C66/81264 B29C66/81457 B29K2995/007 B29C65/10 B29C65/1406 B29C66/73365 B29C66/7338 B29C66/71 B29C66/723

European: B29C63/16 B29C66/81455 B29D11/00F2 B29D11/00H G02B1/08 G02B5/30P1 L29L11/00C

US: 351/159.49 351/163 351/177 351/49 359/642 359/642P



Family:

Publication number	Publication date	Application number	Application date
AU2007217329 AA	20070830	AU20070217329	20070221
AU2007217329 BB	20120301	AU20070217329	20070221
BRPI0708188 A2	20110524	BR2007PI08188	20070221
CA2643412 AA	20080822	CA20072643412	20070221
CA2643412 C	20160621	CA20072643412	20070221
CN101389985 A	20090318	CN200780006409	20070221
CN101389985 B	20101215	CN200780006409	20070221
EP1987380 A2	20081105	EP20070731019	20070221
EP1987380 B1	20170405	EP20070731019	20070221
FR2897693 A1	20070824	FR20060001608	20060223
FR2897693 B1	20081121	FR20060001608	20060223
IN06566DN2008 A	20081024	IN2008DN06566	20080729
JP2009527783 T2	20090730	JP20080555836T	20070221
JP2012252362 A2	20121220	JP20120201276	20120913
JP5552235 B2	20140716	JP20080555836T	20070221
KR101578501 B1	20151218	KR20147014853	20070221
KR20080106273 A	20081204	KR20087023015	20070221
KR20140091572 A	20140721	KR20147014853	20070221
US2007195422 AA	20070823	US20060377238	20060316
US7581832 BB	20090901	US20060377238	20060316
WO07096521 A2	20070830	WO2007FR00312	20070221
WO07096521 A3	20071011	WO2007FR00312	20070221

Priority:

FR20060001608 20060223 JP20080555836 20070221 WO2007FR00312 20070221

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): BEGON CEDRIC ; ESSILOR INT ; ESSILOR INT CIE GENERAL D ; ESSILOR INTERNAT CIE GENERAL D ; ESSILOR INTERNAT CIE GENERAL D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT CIE GENERAL D OPTIQUE ; ROOS ALEXANDRA

Assignee(s): ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE SOCIETE ANONYME ; ESSILOR INT COMP GENERALE D OPTIQUE SOC ANONYME ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT COMPAGNIE GENERAL D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE)

Inventor(s): (std): ALEXANDRA ROOS ; BEGON CEDRIC ; CEDRIC BEGON ; ROOS ALEXANDRA

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; HERBERT SMITH FREEHILLS; FPA PATENT ATTORNEYS PTY LTD; FREEHILLS PATENT ATTORNEYS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; CABINET PLASSERAUD; OCCHIUTI ROHLICEK AND TSAO 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 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: EYEWEAR **LENSES** AND METHODS OF MANUFACTURING

Abstract: Source: US2004145700A Unfinished **lenses**, semi-finished **lens** including optical coatings or a transmission altering layer and methods of manufacturing are described. The unfinished **lens** includes an optical coating and a surface configured to receive a curve. Non-prescriptive and prescriptive **lenses** can be made by the method.

Classifications:

International (IPC 8-9): G02C7/02 G02C7/10

G02C7/12 (Advanced/Invention);

G02C7/00 G02C7/02 (Core/Invention)

International (IPC 1-7): G02B13/14 G02C7/02 H04B10/00

CPC: G02C7/102 G02C7/108 G02C2202/16 G02C7/02 G02C7/12

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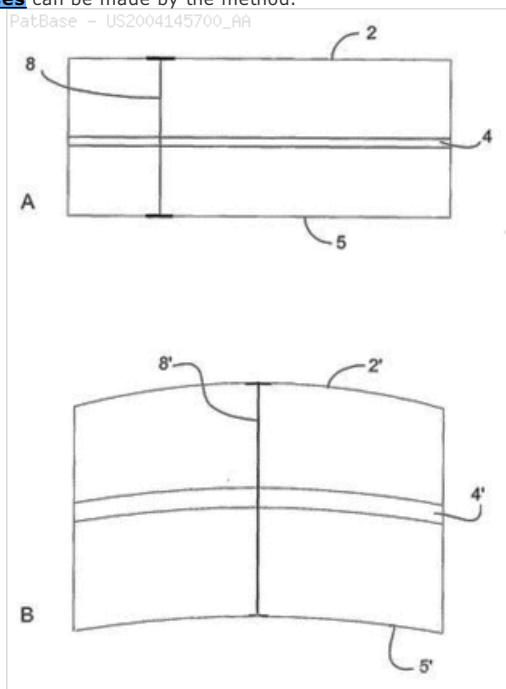
B29D11/00932

European: G02C7/02 G02C7/10 G02C7/12

US: 351/159 351/159.24 351/159.240P 351/159.56 351/159.560P

351/159.57 351/159.62 351/159.620P 351/159.620S 351/159.66

351/159P 351/159S 351/177 359/356 359/356P



Family:

Publication number	Publication date	Application number	Application date
US2004145700 AA	20040729	US20030353062	20030129
US2004145701 AA	20040729	US20030704152	20031110
US2004145802 AA	20040729	US20030704151	20031110
US7004583 BB	20060228	US20030353062	20030129
WO04070452 A2	20040819	WO2004US01789	20040123
WO04070452 A3	20041111	WO2004US01789	20040123

Priority:

US20030353062 20030129 US20030704151 20031110 US20030704152 20031110

Probable Assignee: VISION DYNAMICS LLC A KENTUCKY LIABILITY CORP LTD

Assignee(s): (std): MINIUTTI ROBERT L ; MUKAMAL HAROLD ; EAST BAY TECHNOLOGIES

Assignee(s): EAST BAY TECHNOLOGIES LLC ; MINIUTTI ROBERT ; SUNGATE LLC A RHODE ISLAND LIABILITY CORP LTD ; VISION DYNAMICS LLC A KENTUCKY LIABILITY CORP LTD

Inventor(s): (std): MINIUTTI ROBERT ; MINIUTTI ROBERT L ; MUKAMAL HAROLD

Agent(s): STEPTOE AND JOHNSON 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 KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA 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 US UZ VC VN YU ZA ZM ZW

Title: METHODS FOR COATING CURVED SURFACES WITH A **POLARIZING** LIQUID

Abstract: Source: US2007188698A Methods and apparatuses for coating at least a portion of a curved surface of a **lens** with a **polarizing** liquid are disclosed throughout the specification. For example, there is provided a method comprising providing a **lens** having a curved surface, and applying a **polarizing** liquid to at least a portion of the curved surface by shear flow with a flexible apparatus. Other methods are included. Apparatuses include **ophthalmic lenses** having **polarized** coatings formed according to any of the disclosed methods.

Classifications:

International (IPC 8-9): A62D3/02 B05C11/02 B05D1/40 B05D5/06 B29D11/00 C07H21/00 C07H21/04 C12N1/20 C12N1/21 C12N15/11 C12N9/02 C12Q1/26 C12Q1/68 G01N33/573 G02B1/10 G02B5/30 G02C7/02 (Advanced/Invention); A01N63/00 B05C11/04 C12N1/12 G02B1/10 (Advanced/Non-invention); A62D3/00 B05C11/02 B05D1/40 B05D5/06 B29D11/00 C12N1/21 C12N15/11 C12N9/02 C12Q1/26 C12Q1/68 G01N33/573 G02B1/10 G02B5/30 G02C7/02 (Core/Invention)

International (IPC 1-7): B05D1/40 B05D5/06 C12N1/21

CPC: B09C1/002 C12N1/30 C12N9/0004 Y10S425/808 B05C11/025 B05C11/041 B29D11/00865 G02B1/10 G02B5/3016

European: B05C11/02D1 B09C1/00B B29D11/00K C12N1/30 C12N9/00P G02B1/10 G02B5/30L L05C11/04B S02B1/10

US: 264/1.32 264/1.320S 264/1.7 264/1.700S 351/159 351/159.56 351/159.560P 351/159.62 351/159.620S 425/110 425/110S 425/808 425/808S 427/162 435/189 435/189S 435/25 435/252.1 435/252.100S 435/252.3 435/252.300S 435/25S 435/262.5 435/262.500S 435/6 435/6.11 435/6.110P 435/6.12 435/6.14 435/6.140P 435/6.15 435/6.150S 435/6.18 435/6P 435/7.4 435/7.400S 536/23.2 536/23.200S 536/23.7 536/24.32 536/24.33

PatBase - US2007188698_AA

Patent Application Publication: Aug. 16, 2007 Sheet 1 of 6 US 2007/0188698 A1



FIGURE 1

Family:

Publication number	Publication date	Application number	Application date
AT432127 E	20090615	AT20050715710T	20050301
DE602005014619 D1	20090709	DE200560014619T	20050301
EP1722899 A1	20061122	EP20050715710	20050301
EP1722899 B1	20090527	EP20050715710	20050301
US2007188698 AA	20070816	US20050598459	20050301
US2009176210 AA	20090709	US20050659064	20050802
US2012082983 AA	20120405	US20110294927	20111111
US8063192 BB	20111122	US20050659064	20050802
US8647824 BB	20140211	US20110294927	20111111
US8916233 BB	20141223	US20050598459	20050301
WO05084826 A1	20050915	WO2005EP02263	20050301
WO06017576 A2	20060216	WO2005US27565	20050802
WO06017576 A3	20060601	WO2005US27565	20050802

Priority:

US20040549512P 20040302	US20040598459P 20040802	US20050598459 20050301
US20050659064 20050802	US20090659064 20090311	US20110294927 20111111
WO2005US27565 20050802	WO2005EP02263 20050301	

Probable Assignee: BOARD OF TRUSTEES OF LELAND STANFORD JUNIOR UNIV

Assignee(s): (std): ESSILOR INT ; MOSSE HERBERT ; MUISENER RICHARD ; MULLER JOCHEN A ; SPORMANN ALFRED M ; ROSNER BETTINA M ; MUELLER JOCHEN A ; MCCARTY PERRY L ; MESHULAM SIMON GALIT ; UNIV LELAND STANFORD JUNIOR ; VON ABENDROTH GREGORY

Assignee(s): THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY ; BOARD OF TRUSTEES OF LELAND STANFORD JUNIOR UNIV ; ENERGY UNITED STATES DEPARTMENT OF ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIO ; ESSILOR INTERNATIONAL (COMPAGNIE GENERALE... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D'OPTIQUE

Inventor(s): (std): MCCARTY PERRY L ; MESHULAM SIMON GALIT ; MOSSE HERBERT ; MUELLER JOCHEN A ; MUISENER RICHARD ; MULLER JOCHEN A ; ROSNER BETTINA M ; SPORMANN ALFRED M ; VON ABENDROTH GREGORY

Agent(s): MICHELET ALAIN ET AL ; FULBRIGHT AND JAWORSKI LLP ; STANFORD UNIV OFFICE OF TECHNOLOGY LICENSING BOZICEVIC FIELD AND FRANCIS LLP ; BOZICEVIC FIELD AND FRANCIS LLP ; PAMELA J

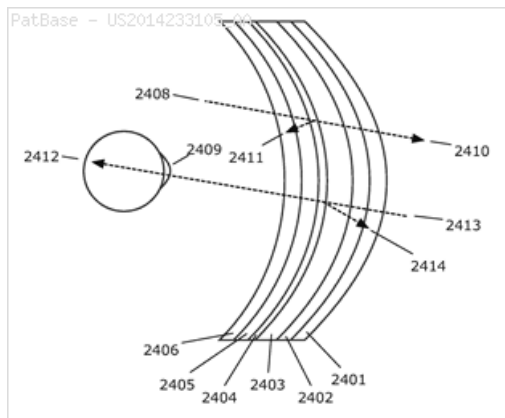
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL 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: MULTI-BAND COLOR VISION FILTERS AND METHOD BY LP-OPTIMIZATION

Abstract: Source: US2014233105A The invention generally relates to optical filters that provide regulation and/or enhancement of chromatic and luminous aspects of the color appearance of light to human vision, generally to applications of such optical filters, to therapeutic applications of such optical filters, to industrial and safety applications of such optical filters when incorporated, for example, in radiation-protective eyewear, to methods of designing such optical filters, to methods of manufacturing such optical filters, and to designs and methods of incorporating such optical filters into apparatus including, for example, eyewear and illuminants.

Classifications:

International (IPC 8-9): A61F9/00 A61F9/02 G01J3/46 G02B1/11 G02B1/113 G02B5/20 G02B5/22 G02B5/23 G02B5/28 G02B5/30 G02C7/00 G02C7/10 G06F17/10 (Advanced/Invention); G01J3/51 G02B5/20 G02B5/22 G02C7/12 (Advanced/Non-invention)
CPC: G01J3/465 G02C7/107 G01J3/51 G02B5/223 G02B5/226 G02C7/102 G02C7/12 G02B5/201 G02B5/285 G02C7/104
European: G02B5/22D G02B5/22G G02B5/28F G02C7/10 G02C7/10E S02B5/22
US: 359/589 359/590



Family:

Publication number	Publication date	Application number	Application date
AU2012223124 AA	20120907	AU20120223124	20120305
AU2012223124 AH	20131107	AU20120223124	20120305
AU2012223124 BB	20151105	AU20120223124	20120305
AU2016200695 AA	20160225	AU20160200695	20160203
CN103688145 A	20140326	CN201280021597	20120305
EP2681522 A1	20140108	EP20120708235	20120305
EP2781899 A2	20140924	EP20140165905	20120305
EP2781899 A3	20150304	EP20140165905	20120305
IN08562DN2013 A	20160624	IN2013DN08562	20131001
JP2014513315 T2	20140529	JP20130556684T	20120305
JP2016224457 A2	20161228	JP20160163341	20160824
JP5996563 B2	20160921	JP20130556684T	20120305
US2014233105 AA	20140821	US20130014991	20130830
WO12119158 A1	20120907	WO2012US27790	20120305

Priority:

AU20120223124	20120305	AU20160200695	20160203	US20110449049P	20110303
EP20120708235	20120305	JP20130556684T	20120305	JP20160163341	20160824
WO2012US27790	20120305	US20130014991	20130830		

Probable Assignee: ENCHROMA INC

Assignee(s): (std): ENCHROMA INC ; MCPHERSON DONALD M ; SCHMEDER ANDREW W

Inventor(s): (std): SCHMEDER ANDREW W ; MPHERSON DONALD M ; MCPHERSON DONALD M ; DONALD M MCPHERSON ; ANDREW W SCHMEDER

Agent(s): FB RICE; FB RICE PTY LTD; BOULT WADE TENNANT; NISHIJIMA TAKAKI; OHTSUKA FUMIAKI; KUMAKURA YOSHIO; SUDA HIROYUKI; KONDO NAOKI; UESUGI HIROSHI; SCHMIDT MARK 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 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: PROCESS FOR MANUFACTURING A SERIES OF **OPHTHALMIC LENSES** AND SHEET OF FILM USED IN SUCH A PROCESS

Abstract: Source: US2010007847A According to a process for manufacturing a series of **ophthalmic lenses**, each **lens** consists of a substrate and a film portion (3) attached to the substrate. The characteristics specific to each **lens** are obtained by functionalizing the film portion. Film functionalization is carried out when the film is in the form of a large planar sheet (2), and then each portion is cut from the sheet. To obtain economic **lens** manufacture, with a good production yield, the film portions have, right from the start of the process, dimensions corresponding substantially to the housing of a frame into which each **lens** is intended to be fitted.

Classifications:

International (IPC 8-9): C23C16/52 G02B1/10 G02B1/11 G02B3/00 G02C13/00 G02C7/00 G02C7/02 G02C7/10

G02C7/12 (Advanced/Invention);

C23C16/52 G02B1/10 G02B3/00 G02C13/00 G02C7/00

G02C7/02 (Core/Invention)

International (IPC 1-7): G02B3/00 G02C7/02

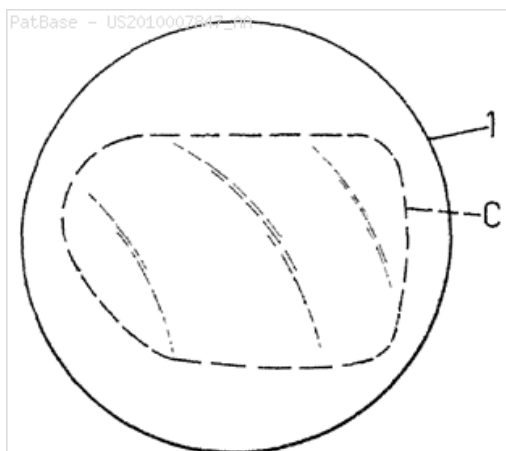
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European: B29D11/00H G02C7/08E2 G02C7/10 G02C7/10A

S02C202/18

US: 351/159 351/159.57 351/159.570P 351/159S 351/166 351/166P

351/177 427/8 427/8S



Family:

Publication number	Publication date	Application number	Application date
AT537479 E	20111215	AT20070821880T	20071026
DE602007019399 D1	20120216	DE200760019399T	20071026
EP2087395 A1	20090812	EP20070821880	20071026
EP2087395 B1	20111214	EP20070821880	20071026
FR2907922 A1	20080502	FR20060009516	20061030
FR2907922 B1	20090213	FR20060009516	20061030
JP2010508552 T2	20100318	JP20090535058T	20071026
JP5604108 B2	20141008	JP20090535058T	20071026
TH55847 B	20170706	TH20071005448	20071029
TH97464 A	20090806	TH20071005448	20071029
US2010007847 AA	20100114	US20070447952	20071026
US7938536 BB	20110510	US20070447952	20071026
WO08052935 A1	20080508	WO2007EP61518	20071026

Priority:

EP20070821880 20071026 FR20060009516 20061030 WO2007EP61518 20071026

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): BOVET CHRISTIAN ; CANO JEAN PAUL ; ESSILOR INT

Assignee(s): ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL (COMPAGNIE GENERALE... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE SOCIETE ANONYME ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE SOC ANONYME

Inventor(s): (std): CANO JEAN PAUL ; BOVET CHRISTIAN

Agent(s): CABINET PLASSERAUD ; OCCHIUTI ROHLICEK AND TSAO LLP; CABINET PLASSERAUD ET AL

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 DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: POLYMER COMPOSITION AND METHODS USING SAID POLYMER COMPOSITION TO MANUFACTURE **OPHTHALMIC LENS**

Abstract: Source: US2017031059A The present invention proposes a polymer composition of manufacturing **ophthalmic lens** by polymerization of polymerizable composition wherein the shrinkage phenomenon is minimized. The polymerizable composition comprised two **different** categories of monomers which are able during crosslinking to control and limit said chemical shrinkage. The present invention comprises also **ophthalmic lens** obtained from said polymer composition using a manufacturing process of casting or additive manufacturing.

Classifications:

International (IPC 8-9): B29C37/00 B29C67/00 B29D11/00 B33Y10/00 B33Y70/00 B33Y80/00 C08F20/18 C08G59/00 C08G64/00 C08L101/00 G02B1/04 (Advanced/Invention)

CPC: C08G59/00 G02B1/041 B29D11/00028 B29D11/0048 B33Y70/00 B33Y80/00 B29C67/0066 B29C37/0025 B29K2063/00 B29K2069/00 B29K2105/0014 B29L2011/0016 B33Y10/00 G02C7/022 B29C64/135 B29C67/0059 B29C64/112 B29D11/00442 G02B1/043 C08F20/18 C08G64/00 C08L101/00

US: 264/1.36

Family:

Publication number	Publication date	Application number	Application date
AU2013408697 AA	20150625	AU20130408697	20131220
BR112016014351 A2	20170808	BR20161114351	20131220
CA2934674 AA	20160620	CA20132934674	20131220
CN105829922 A	20160803	CN201380081653	20131220
EP3084484 A1	20161026	EP20130854196	20131220
IN201617019695 A	20160831	IN201617019695	20160608
KR20160101914 A	20160826	KR20167015547	20131220
US2017031059 AA	20170202	US20130106617	20131220
WO15092467 A1	20150625	WO20131B03007	20131220

Priority:

WO20131B03007 20131220

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT ; ESSILOR INT CIE GENERALE D OPTIQUE

Assignee(s): ESSILOR INT COMP GENERALE D OPTIQUE ; BITEAU JOHN ; VALERI ROBERT ; ESSILOR INT COMP GENERALE DOPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE

Inventor(s): (std): BITEAU JOHN ; VALERI ROBERT

Inventor(s): JOHN BITEAU ; ROBERT VALERI

Agent(s): WATERMARK INTELLECTUAL PROPERTY PTY LTD; GOWLING WLG CANADA LLP; JACOBACCI CORALIS HARLE; CHAUVIN VINCENT ET AL

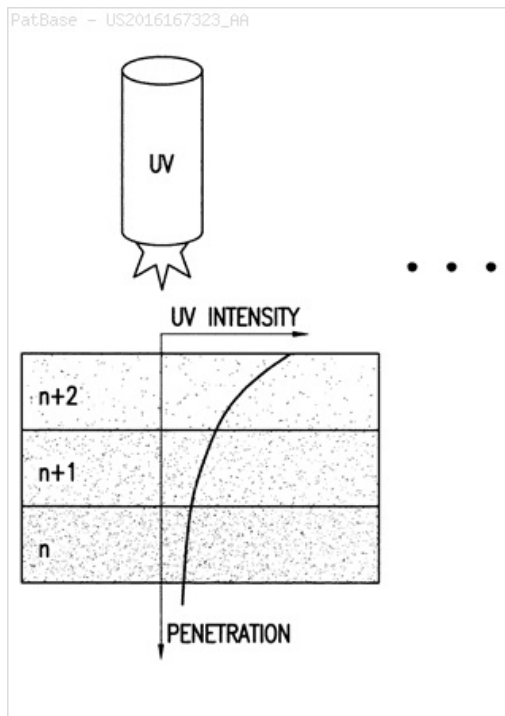
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW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

Title: ADDITIVE MANUFACTURING FOR TRANSPARENT **OPHTHALMIC LENS**

Abstract: Source: US2016167323A A method using additive manufacturing technologies and processes to manufacture a three-dimensional **ophthalmic lens** with a high management level of the homogeneity during the construction of the **ophthalmic lens**, through a control of two technical characteristics of voxel: the ability to modify their viscosity, and the ability to inter-diffuse together to provide a final homogeneous element. These two technical characteristics are managed by the choice of component(s) used to manufacture each voxel and by the kind of physical and/or chemical treatment apply to each of them.

Classifications:

International (IPC 8-9): B29C67/00 B29D11/00 B33Y10/00
G02B1/04 G02B3/00 G02C7/00 G02C7/02 (Advanced/Invention)
CPC: G02B1/041 G02C7/022 B29L2011/0016 B33Y10/00 B33Y80/00
B29D11/00432 B29C64/106 B29C64/386 B29D11/00009
US: 264/2.6 351/159.01



Family:

Publication number	Publication date	Application number	Application date
BR112016000136 A2	20170822	BR20161100136	20130731
CN105431283 A	20160323	CN201380078566	20130731
EP3027397 A1	20160608	EP20130814426	20130731
IN201617001733 A	20160812	IN201617001733	20160118
JP2016530127 T2	20160929	JP20160530354T	20130731
KR20160039189 A	20160408	KR20167002222	20130731
US2016167323 AA	20160616	US20130908653	20130731
WO15014380 A1	20150205	WO2013EP02326	20130731

Priority:

WO2013EP02326 20130731

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT ; ESSILOR INT CIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Inventor(s): (std): BITEAU JOHN ; VALERI ROBERT A ; WEBER STEVEN ; WEBERL STEVEN

Inventor(s): JOHN BITEAU ; ROBERT A VALERI ; STEVEN WEBER

Agent(s): SANTARELLI

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: METHODS AND DEVICES TO DESIGN AND FABRICATE SURFACES ON CONTACT **LENSES** AND ON CORNEAL TISSUE THAT CORRECT THE EYE'S OPTICAL ABERRATIONS

Abstract: Source: US6086204A Methods and devices are described that are needed to design and fabricate modified surfaces on contact **lenses** or on corneal tissue that correct the eye's optical aberrations beyond defocus and astigmatism. The invention provides the means for: 1) measuring the eye's optical aberrations either with or without a contact **lens** in place on the cornea, 2) performing a mathematical analysis on the eye's optical aberrations in order to design a modified surface shape for the original contact **lens** or cornea that will correct the optical aberrations, 3) fabricating the aberration-correcting surface on a contact **lens** by diamond point turning, three dimensional contour cutting, laser ablation, thermal molding, photolithography, thin film **deposition**, or surface chemistry alteration, and 4) fabricating the aberration-correcting surface on a cornea by laser ablation.

Classifications:

International (IPC 8-9): A61B3/10 A61B3/103 A61B3/14 A61B3/15 G01M11/02 G02C13/00 G02C7/04 (Advanced/Invention); A61B3/10 A61B3/103 A61B3/14 A61B3/15 G01M11/02 G02C13/00 G02C7/04 (Core/Invention)

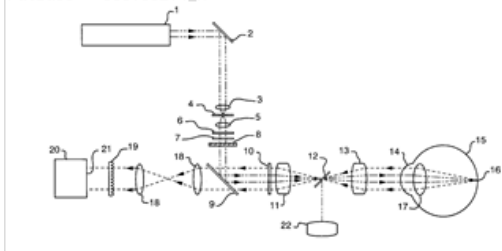
International (IPC 1-7): A61B3/00 A61B3/10 A61B3/103 A61B3/107 A61F9/01 B24B13/00 G01M11/02 G02C13/00 G02C7/04

CPC: A61B3/1015

European: A61B3/103 A61B3/10F A61B3/14B A61B3/15F

US: 219/121.75 351/212

PatBase - US6086204_A



Family:

Publication number	Publication date	Application number	Application date
EP1215992 A1	20020626	EP20000955593	20000816
EP1215992 A4	20030402	EP20000955593	20000816
JP2003509731 T2	20030311	JP20010524495T	20000816
US6086204 A	20000711	US19990399022	19990920
USRE38839 E	20051018	US20020192104	20020710
WO0121061 A1	20010329	WO2000US22466	20000816
WO0121061 C2	20020711	WO2000US22466	20000816

Priority:

US19990399022 19990920 US20020192104 20020710 WO2000US22466 20000816

Probable Assignee: BROOKFIELD OPTICAL SYSTEMS INC

Assignee(s): (std): MAGNANTE PETER C

Assignee(s): BROOKFIELD OPTICAL SYSTEMS INC

Inventor(s): (std): MAGNANTE PETER C

Agent(s): BARNES AND THORNBURG; ROBERT FI

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

Title: PRODUCTION OF AN **OPHTHALMIC LENS** SUITABLE FOR STEREOSCOPIC VISION

Abstract: Source: US2014157576A A process for producing an **ophthalmic lens** which is suitable for stereoscopic vision based on selection of circular light-**polarization** includes laminating a quarter-wave retarding layer (3) onto an **ophthalmic base lens** (1). Such process leads to low unit cost for the **lenses** produced, and a high optical quality. The **ophthalmic base lens** may be adapted for correcting an ametropia of a wearer of the **ophthalmic lens**, thereby combining ametropia correction with stereoscopic vision.

Classifications:

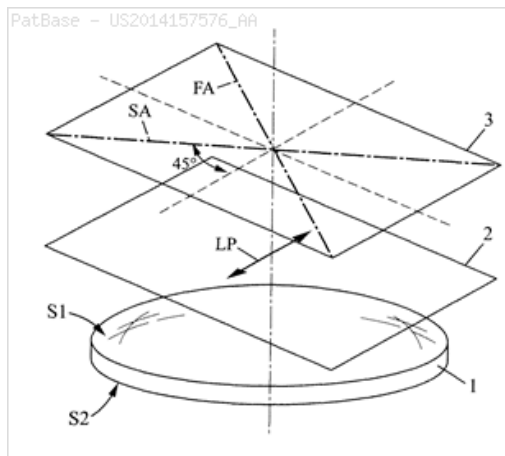
International (IPC 8-9): B29C63/00 B29C63/16 B29D11/00 G02B27/26 G02B5/30 G02C13/00 G02C7/00

G02C7/12 (Advanced/Invention);

B29C63/00 (Advanced/Non-invention)

CPC: B29C63/0073 B29D11/00644 G02C13/001 B29D11/0073 Y10T29/49826 B29C63/16 G02B27/26

US: 264/1.7 29/428



Family:

Publication number	Publication date	Application number	Application date
CN103813898 A	20140521	CN201180072581	20110721
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EP2734358 A1	20140528	EP20110778954	20110721
JP2014520691 T2	20140825	JP20140520737T	20110721
JP5968436 B2	20160810	JP20140520737T	20110721
KR20140053145 A	20140507	KR20147002435	20110721
US2014157576 AA	20140612	US20110234188	20110721
WO13011346 A1	20130124	WO2011B02061	20110721

Priority:

WO2011B02061 20110721

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): BEGON CEDRIC ; ESSILOR INT ; ESSILOR INT CIE GENERALE D OPTIQUE ; NUNEZ OLIVEROS MATTHIEU

Assignee(s): ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE)

Inventor(s): (std): BEGON CEDRIC ; NUNEZ OLIVEROS MATTHIEU

Agent(s): CABINET PLASSERAUD; HARAKENZO WORLD PATENT AND TRADEMARK; BOIRE PHILIPPE 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 TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PROCESS FOR APPLYING A COATING ONTO A FRESNEL LENS FORMING SURFACE

Abstract: Source: US2009291206A Disclosed is a process for coating at least one geometrically defined surface of an optical article's substrate. The process can include: (a) providing a removable carrier made of plastic material and having an internal surface and external surface; (b) providing an optical article comprising a substrate having at least one geometrically defined surface forming a Fresnel lens; (c) depositing a curable coating composition onto either the at least one surface forming a Fresnel lens; (d) moving the carrier and optical article relatively to each other; (e) applying a pressure onto the external surface of the carrier to spread out the curable coating composition to cover said at least one surface forming a Fresnel lens; (f) curing the layer of curable coating composition; (g) withdrawing the removable carrier to recover the substrate of the optical article having at least one Fresnel lens forming surface coated with the cured coating composition.

Classifications:

International (IPC 8-9): B05D1/28 B05D3/02 B05D5/06 B05D7/00

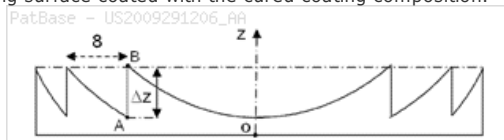
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B05D5/06 B29D11/00 (Core/Invention)

CPC: B29D11/00269 B29D11/00865 G02B3/08

European: B29D11/00C5 B29D11/00K

US: 427/162 427/164 427/164P 427/372.2



Family:

Publication number	Publication date	Application number	Application date
BRPI0912748 A2	20151013	BR2009PI12748	20090520
CA2725056 AA	20091126	CA20092725056	20090520
CA2725056 C	20161018	CA20092725056	20090520
CN102036808 A	20110427	CN200980118038	20090520
CN102036808 B	20140618	CN200980118038	20090520
EP2288489 A1	20110302	EP20090749866	20090520
JP2011521777 T2	20110728	JP20110509977T	20090520
JP5314752 B2	20131016	JP20110509977T	20090520
KR101603291 B1	20160314	KR20107025961	20090520
KR20110015563 A	20110216	KR20107025961	20090520
US2009291206 AA	20091126	US20080124466	20080521
US8252369 BB	20120828	US20080124466	20080521
WO09141376 A1	20091126	WO2009EP56133	20090520

Priority:

US20080124466 20080521 WO2009EP56133 20090520

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; JIANG PEIQI

Assignee(s): ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT COMP GENERALE D OPTIQUE

Inventor(s): (std): JIANG PEIQI ; PEIQI JIANG

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; CATHERINE ALAIN; FULBRIGHT AND JAWORSKI LLP; CATHERINE ALAIN 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: **OPHTHALMIC LENSES** COMPRISING A PHOTODEGRADATION PROTECTION COATING AND A PROCESS FOR PRODUCING SUCH **LENSES**

Abstract: Source: US2007179224A The present invention relates to an optical article, in particular an **ophthalmic lens** comprising a substrate, a coating that includes at least one photodegradation-sensitive dye, and a photodegradation protection (anti-UV) coating for protecting the coating containing at least one photodegradation-sensitive dye, the photodegradation protection coating comprising a blend of acrylate oligomers and monofunctional or multifunctional acrylate monomers, at least one UV absorber and at least one photoinitiator. This anti-UV coating used is particularly suitable for an **ophthalmic lens** in which the **polarizing** function is provided by a bilayer system, one layer of which comprises liquid crystals combined with dyes, and more particularly dichroic dyes. Advantageously, the anti-UV coating according to the invention is combined with an oxygen barrier layer.

Classifications:

International (IPC 8-9): B05D1/38 B05D3/06 B32B1/00 B32B27/30
C08K5/34 G02B1/04 G02B1/10 G02C7/02
G02C7/12 (Advanced/Invention);
B29D11/00 C08G77/14 C08K5/00 G02C7/02 (Advanced/Non-invention);
C08K5/00 G02B1/04 G02B1/10 G02C7/02 (Core/Invention);
G02C7/02 (Core/Non-invention)

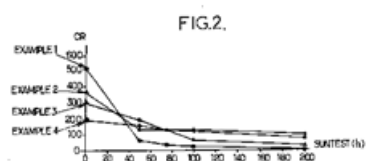
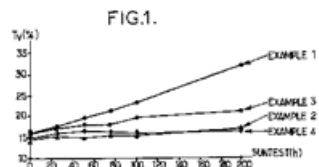
CPC: Y10T428/31551 Y10T428/31855 Y10T428/31935 B29D11/00903
C08G77/14 C08K5/0008 G02B1/14 G02B1/105

European: B29D11/00K6B C08K5/00P G02B1/10B M08G77/14
S02B1/10B

US: 351/159 351/159.6 351/163 351/166 351/177 427/164
427/407.1 428/423.1 428/500 428/522 524/100

PatBase - US2007179224_AA

Patent Application Publication Aug. 7, 2007 Sheet 1 of 2 US 2007/0179224 A1



Family:

Publication number	Publication date	Application number	Application date
EP1785747 A1	20070516	EP20060291624	20061018
FR2893422 A1	20070518	FR20050011513	20051114
FR2893422 B1	20080307	FR20050011513	20051114
JP2007140514 A2	20070607	JP20060306487	20061113
US2007179224 AA	20070802	US20060558080	20061109
US7815308 BB	20101019	US20060558080	20061109

Priority:

FR20050011513 20051014 FR20050011513 20051114 FR20050511513 20051114
US20060558080 20061109 US20050736473P 20051114

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): ESSILOR INT ; ESSILOR INTERNATL CO GENERALE

Assignee(s): ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE SOCIETE ANONYME ; ESSILOR INT COMP GEN D OPTIQUE SOC ANONYME ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL (COMPAGNIE GENERALE... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQUE SOC ANONYME ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATL CO GENERALE D OPTIQUE

Inventor(s): (std): FANAYAR MYRIAM ; LESARTRE NOEMIE

Agent(s): FISH AND RICHARDSON PC; OCCHIUTI ROHLICEK AND TSAO LLP

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Title: PROCESS FOR FORMING A COATED LAYER ON A TORIC SURFACE OF AN OPTICAL ARTICLE

Abstract: Source: US2005269721A A process for making a coating layer of a curable composition on a toric surface of an optical article, in particular an **ophthalmic lens** or **lens** blank, and in particular a functional coating layer; compositions and apparatus useful for the practice of the process; and products obtained from the practice of the process.

Classifications:

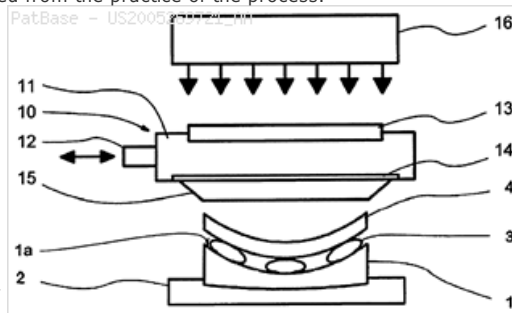
International (ipc 8-9): B05D5/06 B29C35/08 B29C65/00 B29D11/00 G02B1/10 G02B1/11 G02C7/02 (Advanced/Invention); B29L11/00 G02C7/10 (Advanced/Non-invention); B05D5/06 B29D11/00 G02B1/10 G02C7/02 (Core/Invention); G02C7/00 (Core/Non-invention)

International (ipc 1-7): B29D11/00

CPC: B29K2995/007 B29D11/00019 B29C66/81455 B29C2035/0827 B29D11/0073 B29L2011/0025 B29C66/73161 B29K2995/0072 B29C66/8322 B29C66/452 B29C66/1122 B29C65/1406 B29C65/4845 B29C66/73343 B29C66/7338 B29K2995/0027 B29C66/545 B29C66/723 B29C66/72325 B29C66/73175 B29C66/733 B29C66/73365 B29C66/7352 B29C66/73921

European: B29C66/81455 B29D11/00C2 B29D11/00H L29C35/08B4 L29L11/00C2

US: 264/1.32 264/1.320P 264/1.7 264/1.700S 264/2.5 427/162



Family:

Publication number	Publication date	Application number	Application date
AT404353 E	20080815	AT20050753860T	20050602
BRPI0511815 A	20071226	BR2005PI11815	20050602
BRPI0511815 B1	20150811	BR2005PI11815	20050602
DE602005008958 D1	20080925	DE200560008958T	20050602
EP1755872 A1	20070228	EP20050753860	20050602
EP1755872 B1	20080813	EP20050753860	20050602
JP2008501989 T2	20080124	JP20070513865T	20050602
US2005269721 AA	20051208	US20040861580	20040604
US2008036104 AA	20080214	US20050570012	20050602
US7632432 BB	20091215	US20050570012	20050602
WO05118268 A1	20051215	WO2005EP05986	20050602

Priority:

US20040861580 20040604 US20050570012 20050602 WO2005EP05986 20050602

Probable Assignee: ESSILOR INT COMP GENERALE D OPTIQUE

Assignee(s): (std): ADILEH FADI ; ESSILOR INT ; ESSILOR INTERNAT COMPAGINE GEN ; JIANG PEIQI ; ESSILOR INTERNAC CIE GENERALE ; ESSILOR INT COMPAGINE GEN ; ESSILOR INTERNAC CIE GENERALE D OPTIQUE

Assignee(s): ESSILOR INTERNATIONAL (COMPAGINE GENERALE OF... ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNACIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGINE GENERALE OF OPTIQUE ; ESSILOR INT COMPAGINE GENERALE OF OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNACIONAL COMP GENERALE D OPTIQUE ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQU ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D'OPTIQUE

Inventor(s): (std): ADILEH FADI ; JIANG PEIGI ; JIANG PEIQI

Inventor(s): PEIGI JIANG ; FADI ADILEH

Agent(s): CATHERINE ALAIN ET AL; FULBRIGHT AND JAWORSKI 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: OPTICAL ELEMENTS AND METHOD OF MAKING THE SAME USING LIQUID CRYSTAL MATERIALS

Abstract: Source: US2007076167A Provided is a method for making a customized **lens** including applying a customizable material onto a surface of an **ophthalmic** substrate; and writing index-change information to the material to form a variable-index layer on the substrate surface. Also provided is a customized **ophthalmic** element including an **ophthalmic** substrate; and a variable-index layer of a liquid crystal material connected to at least a portion of the substrate. Further provided is an **ophthalmic** element having a pair of complementary substrates, each of which has a complementary surface and being positioned such that their complementary surfaces are spaced apart and facing each other, an alignment layer of a **patterned** alignment material connected to at least one of the complementary surfaces of the pair of substrates, and a variable-index coating interposed between the pair of substrates, such that the liquid crystal material of the variable-index coating is aligned with the **patterned** alignment material.

Classifications:

International (IPC 8-9): B29D11/00 C09K19/00

G02C7/02 (Advanced/Invention);

G02C7/02 (Core/Invention)

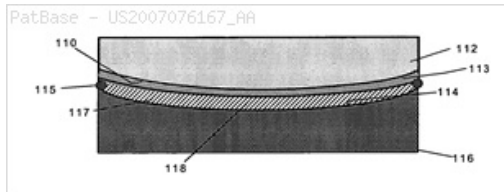
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European: B29D11/00C22F C09K19/00 K61B560/02H2 S02C202/12

S02C202/16 S02C202/22

US: 351/159 351/159.01 351/159.010P 351/159P



Family:

Publication number	Publication date	Application number	Application date
DE602006027072 D1	20120315	DE200660027072T	20060927
EP1934649 A2	20080625	EP20060815645	20060927
EP1934649 B1	20120111	EP20060815645	20060927
EP1934649 B9	20120627	EP20060815645	20060927
US2007076167 AA	20070405	US20060527131	20060926
US7452074 BB	20081118	US20060527131	20060926
WO07038662 A2	20070405	WO2006US37799	20060927
WO07038662 A3	20080417	WO2006US37799	20060927

Priority:

EP20060815645 20060831 US20050527131 20050926 US20050720923P 20050927
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Probable Assignee: TRANSITIONS OPTICAL INC

Assignee(s): (std): FOLLER PETER C ; KUMAR ANIL ; TRANSITIONS OPTICAL INC

Assignee(s): TRANSITIONS OPTICAL INC NDGESD STAATES DELAWARE PINELLAS PARK ; TRANSITIONS OPTICAL LTD

Inventor(s): (std): FOLLER PETER ; FOLLER PETER C ; KUMAR ANIL

Inventor(s): KUMAR ANIL MURRYSVILLE ; FOLLER PETER MURRYSVILLE

Agent(s): FLEISCHER ENGELS AND PARTNER MBB PATENTANWALTE; POLYPATENT; DEBORAH M ALTMAN PPG IND INC; PINGITORE LINDA; ALTMAN DEBORAH M; LINDA; DEBORAH M

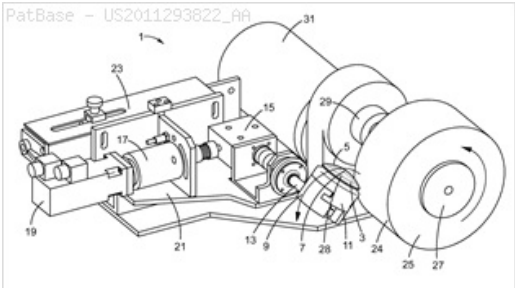
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ 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: METHOD AND APPARATUS FOR PREPARING A **POLARIZING** DYE RECEIVING SURFACE

Abstract: Source: US2011293822A A method of preparing a **polarizing** dye receiving surface includes bringing the **polarizing** dye receiving surface into contact with a brushing surface of a brush pad carrying an abrasive material and brushing the **polarizing** dye receiving surface with the brushing surface in one or more brushing strokes. Each brushing stroke comprises effecting a unidirectional relative motion between the **polarizing** dye receiving surface and the brushing surface along a brushing path. The **polarizing** dye receiving surface is separated from the brushing surface after the brushing.

Classifications:

International (IPC 8-9): B05D5/06 B24B1/00 B24B13/00 B24B7/04 G02B1/12 G02B5/30 G02C7/10 G02C7/12 G06Q (Advanced/Invention); G02B1/12 G02C7/12 (Core/Invention)
CPC: B24B13/00 B24B37/02 G02B5/3033
European: B24B13/00 B24B37/02 S02B5/30P1
US: 427/163.1 427/163.100P 451/178 451/178S 451/246 451/246S 451/37 451/37S 451/59 451/59S



Family:

Publication number	Publication date	Application number	Application date
CN102918429 A	20130206	CN201180026321	20110526
EP2577362 A1	20130410	EP20110724874	20110526
IN10344DN2012 A	20160401	IN2012DN10344	20121128
JP2013527500 T2	20130627	JP20130513232T	20110526
TH131360 A	20140227	TH20121006158	20110526
US2011293822 AA	20111201	US20100789759	20100528
WO11150143 A1	20111201	WO2011US38028	20110526

Priority:

US20100789759 20100528 WO2011US38028 20110526

Probable Assignee: CORNING INC

Assignee(s): (std): CORNING CO LTD ; CORNING INC ; DAVIDOVITS JEROME VIVIEN ; GESELL ERIC

Inventor(s): (std): DAVIDOVITS JEROME VIVIEN ; GESELL ERIC

Inventor(s): JEROME VIVIEN DAVIDOVITS ; ERIC GESELL

Agent(s): ANDERSON JAMES EDWARD GEORGE; SANTANDREA ROBERT P

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: PIXELIZED TRANSPARENT OPTICAL COMPONENT COMPRISING AN ABSORBING COATING, PRODUCTION METHOD THEREOF AND USE THEREOF IN AN OPTICAL ELEMENT

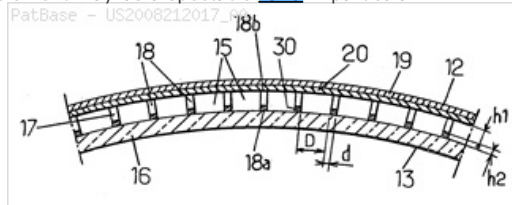
Abstract: Source: US2008212017A A transparent optical component (10) comprises at least one transparent set of cells (15) juxtaposed parallel to a surface of the component, each cell being separated by walls (18) parallel to the component surface, hermetically sealed and containing at least one substance having an optical property, and at least one absorbing coating (30), placed on the walls on one side extending parallel to said component surface. The optical component can be cut out along a predefined contour and optionally drilled. The invention also comprises a method for producing such optical component and its use for producing an optical element. The optical element may be a spectacle **lens** in particular.

Classifications:

International (IPC 8-9): A61F2/14 B05D5/06 G02B1/06 G02B1/10 G02B3/12 G02B5/22 G02C7/00 G02C7/02 G02C7/04 G02C7/08 G02C7/10 G02F1/13 G02F1/1333 G03F7/20 (Advanced/Invention); B05D5/06 G02B1/00 G02B5/22 G02C7/00 G02C7/02 G02F1/13 G03F7/20 (Core/Invention)

CPC: G02C7/083 G02C7/101 G02C2202/18 G02C7/102 G02C7/12 G02C7/08 G02C7/08E2 G02C7/10 G02C7/10A G02C7/10C G02C7/12 S02C202/18

European: G02C7/08 G02C7/08E2 G02C7/10 G02C7/10A G02C7/10C G02C7/12 S02C202/18
US: 216/24 216/24S 351/159 351/159.01 351/159.02 351/159.24 351/159.61 351/159.62 351/159.65 351/159.73 351/159.730P 351/159.74 351/159.75 351/159P 359/665 359/665S 427/164 427/164S 430/324 430/324S 623/4.1



Family:

Publication number	Publication date	Application number	Application date
AU2006271585 AA	20070125	AU20060271585	20060713
AU2006271585 AH	20080228	AU20060271585	20060713
AU2006271585 BB	20120112	AU20060271585	20060713
CA2615478 AA	20080115	CA20062615478	20060713
CN101268405 A	20080917	CN200680034348	20060713
EP1904884 A1	20080402	EP20060794181	20060713
FR2888948 A1	20070126	FR20050007720	20050720
FR2888948 B1	20071012	FR20050007720	20050720
JP2009501951 T2	20090122	JP20080522012T	20060713
JP5090347 B2	20121205	JP20080522012T	20060713
KR101293769 B1	20130816	KR20087003799	20060713
KR20080042829 A	20080515	KR20087003799	20060713
US2008212017 AA	20080904	US20060996091	20060713
US8231217 BB	20120731	US20060996091	20060713
WO07010125 A1	20070125	WO2006FR01728	20060713

Priority:

FR20050007720 20050720 WO2006FR01728 20060713

Probable Assignee: ESSILOR INT COMPAGNIE GENERALE D OPTIQUE

Assignee(s): (std): BALLET JEROME ; CANO JEAN PAUL ; ESSILOR INT ; ESSILOR INTERNAT CIE GENERAL D

Assignee(s): ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERAL D OPTIQUE ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE SOCIETE ANONYME ; ESSILOR INT (COMPAGNIE GENERALE D'OPTIQUE) ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT COMP GEN D OPTIQUE SOC ANONYME ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQUE ; ESSILOR INTERNATIONAL (COMPAGNIE GENERALE...

Inventor(s): (std): BALLET JEROME ; CANO JEAN PAUL ; JEAN PAUL CANO ; JEROME BALLET

Agent(s): FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; FPA PATENT ATTORNEYS PTY LTD; HERBERT SMITH FREEHILLS; OGILVY RENAULT LLP SENCRL SRL; CABINET PLASSERAUD; OCCHIUTI ROHLICEK AND TSAO 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 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 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 SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: CURABLE ADHESIVE COMPOSITION AND ITS USE IN THE OPTICAL FIELD

Abstract: Source: US2005250870A The invention concerns a photocurable adhesive composition comprising, based on total weight of photopolymerizable monomers and/or oligomers of the composition: (A1) 20 to 80 wt percent of at least one diacrylate monomer or oligomer thereof (A1); (A2) 80 to 20 wt percent of at least one dimethacrylate monomer or oligomer thereof; (B) 0 to 50 wt percent, of at least one copolymerizable monomer **different** from components (A1) and (A2); with the proviso that the composition is free from any thio(meth)acrylate ($-\text{SCOCR}'=\text{CH}_2$, with $\text{R}'=\text{H}$ or CH_3) monomer or oligomer thereof.

Classifications:

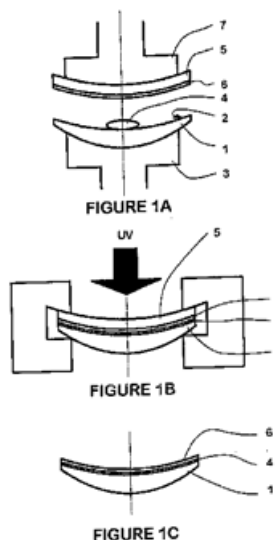
International (IPC 8-9): B29C65/14 B29D11/00 B32B27/30 C08F2/50 C09J133/14 C09J135/02 C09J4/00 (Advanced/Invention); B29C65/00 B32B27/00 C08L71/02 G02B1/00 G02B1/04 (Advanced/Non-invention); B29C65/14 B29D11/00 B32B27/30 C08F2/46 C09J133/14 C09J135/00 C09J4/00 (Core/Invention); B29C65/00 B32B27/00 C08L71/00 G02B1/00 G02B1/04 (Core/Non-invention)

International (IPC 1-7): B29D11/00 C08G2/00 C09J135/02 C09J133/14 B29C66/71 B29C66/81455 B29C2035/0827 B29D11/0073 B29L2011/0016 C08L71/02 C08L2312/00 C09J4/00 Y10T428/31511 B29K2995/007 B29C65/4845 B29C65/7847 B29C66/1122 B29C66/5326 B29C66/8122 B29C66/81422 B29C66/81423 B29C66/81457 B29C66/8322 B29C66/543 B29C66/545 B29C66/73161 B29K2995/0072 B29C66/7392 B29C65/1406 B29C66/7352 B29C66/73921 B29C66/73343 B29C66/7338 B29C66/81267 B29K2995/0027 B29C66/61 B29C66/7315 C08L2666/22

European: B29C66/81455 B29D11/00H C09J133/14 C09J4/00 L29C35/08B4 L29C66/71 L29L11/00C M08L312/00 M08L71/02
US: 156/228 156/275.5 156/74 156/99 427/508 427/516 427/517 428/413 522/100 522/103 522/113 522/114 522/121 522/134 522/135 522/137 522/144 522/172 522/181 522/182

PatBase - US2005250870_AA

Patent Application Publication No. 18, 2005 Sheet 1 of 3 US 2005/0250870 A1

**Family:**

Publication number	Publication date	Application number	Application date
AT402233 E	20080815	AT20050746899T	20050503
BRPI0510640 A	20071113	BR2005PI10640	20050503
CN1977016 A	20070606	CN200580022159	20050503
DE602005008430 D1	20080904	DE200560008430T	20050503
EP1753835 A1	20070221	EP20050746899	20050503
EP1753835 B1	20080723	EP20050746899	20050503
ES2309762 T3	20081216	ES20050746899T	20050503
IN06516DN2006 A	20070831	IN2006DN06516	20061103
US2005250870 AA	20051110	US20040838840	20040504
US7439278 BB	20081021	US20040838840	20040504
WO05105942 A1	20051110	WO2005EP04825	20050503

Priority:

US20040838840 20040504 WO2005EP04825 20050503

Probable Assignee: ESSILOR INT COMP GENERALE D OPTIQUE**Assignee(s):** (std): ESSILOR INT ; JALLOULI AREF

Assignee(s): ESSILOR INTERNATIONAL ; ESSILOR INTERNATIONAL COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMP GENERALE D'OPTIQUE ; ESSILOR INT COMPAGNIE GENERALE D OPTIQUE ; ESSILOR INT COMP GEN D OPTIQUE ; ESSILOR INT COMP GENERALE D OPTIQU ; ESSILOR INT COMP GENERALE D OPTIQUE

Inventor(s): (std): AREF JALLOULI ; JALLOULI AREF**Inventor(s):** AREFJALLOULI**Agent(s):** CATHERINE ALAIN ET AL; FULBRIGHT AND JAWORSKI 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 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: FIBER STUB END-PUMPED LASER

Abstract: Source: US5663979A A laser diode package couples laser diode outputs into a plurality of fibers, and these are bundled and brought to an output face that produces a divergent composite beam from the fiber ends. The beam end pumps a solid-state laser across a gap, and the divergence allows a wide tolerance in alignment of the pump and crystal. Preferably, one cavity mirror is a focusing mirror that reconcentrates residual pump light in the desired mode. In a preferred embodiment, the output face of the package is at a short stub or ferrule that provides a simple and effective pump beam centering alignment. The solid-state laser may be a rod or crystal and is preferably sufficiently short, in relation to pump beam diameter and divergence in the rod, that the pump beam within the rod lies in the TEM₀₀ mode volume of the laser cavity. A concave mirror then refocuses residual pump light back into that mode. The rod preferably has a high index at the pump wavelength, but need not have high absorption. A common mounting plate and heat sinking arrangement are provided for the package and crystal, and the assembly is relatively insensitive to alignment variations, with only one cavity mirror requiring optical alignment. The bundle packing may take various shapes to match modes of a sheet or rectangular lasing medium.

Classifications:

International (IPC 8-9): H01S3/081 H01S3/094 H01S3/0941 H01S3/098 H01S3/10 H01S3/102 H01S3/109 (Advanced/Invention); G02B6/42 H01S3/04 H01S3/06 H01S3/08 H01S3/081 H01S3/098 H01S3/102 H01S3/108 H01S3/109 H01S3/23 (Advanced/Non-invention);

H01S3/094 H01S3/0941 H01S3/109 (Core/Invention);

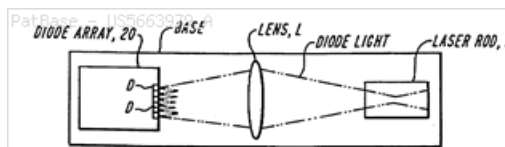
G02B6/42 H01S3/08 H01S3/081 H01S3/098 H01S3/102 H01S3/108 H01S3/23 (Core/Non-invention)

International (IPC 1-7): H01S3/08 H01S3/091 H01S3/092 H01S3/094 H01S3/0941 H01S3/10 H01S3/102 H01S3/109 H01S3/13

CPC: G02B6/421 G02B6/4249 H01S3/08072 H01S3/09408 H01S3/108 H01S3/2333 H01S3/025 G02F1/39 H01S3/005 H01S3/0401 H01S3/061 H01S3/0627 H01S3/0933 Y10S372/703 H01S3/109 H01S3/0615 H01S3/08036 H01S3/081 H01S3/094053 H01S3/09415 H01S3/1022

European: G02F1/39 H01S3/0941E H01S3/109 S02B6/42C3D S02B6/42C8 T01S3/00F T01S3/02S T01S3/04B T01S3/06A7 T01S3/06A9 T01S3/06M T01S3/081 T01S3/08M2S2 T01S3/08T T01S3/0933 T01S3/094G2 T01S3/094R T01S3/102B T01S3/108 T01S3/23A2D

US: 372/101 372/103 372/19 372/22 372/25 372/33 372/34 372/36 372/6 372/703 372/71 372/75 372/92 372/99

**Family:**

Publication number	Publication date	Application number	Application date
AU199732983 A1	19980105	AU19970032983	19970530
DE69706541 D1	20011011	DE19976006541	19970530
DE69706541 T2	20020425	DE19976006541T	19970530
EP0904615 A1	19990331	EP19970928819	19970530
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EP0990283 A1	20000405	EP19960940845	19961122
EP0990283 A4	20000405	EP19960940845	19961122
JP2000500924 T2	20000125	JP19970519910T	19961122
KR19990071549 A	19990927	KR19980703823	19961122
US5663979 A	19970902	US19950562297	19951122
US5982789 A	19991109	US19970865508	19970530
US5999554 A	19991207	US19980983310	19980107
US6327291 BA	20011204	US19990440039	19991112
WO9719503 A1	19970529	WO1996US18730	19961122
WO9745901 A1	19971204	WO1997US09601	19970530

Priority:

US19950562297 19951122 US19960015870P 19960531 US19990440039 19991112
US19970865508 19970530 US19980983310 19980107 WO1996US18730 19961122
WO1997US09601 19970530

Probable Assignee: LIGHT SOLUTIONS CORP

Assignee(s): (std): LIGHT SOLUTIONS CORP ; MARSHALL LARRY R ; IRIDEX CORP

Assignee(s): LIGHT SOLUTIONS A CA CORP CORP ; IRIDEX CORP MOUNTAIN VIEW ; LASERSCOPE ; MID PENINSULA BANK PART OF GREATER BAY BANK NA ; WELLS FARGO BANK NATIONAL ASSOCIATION ; AMERICAN MEDICAL SYSTEMS INC

Inventor(s): (std): BUZAWA DAVID ; BUZAWA DAVID M ; KELSEY E ; KELSEY WAYNE E ; MARSHALL LARRY R ; MARSHALL R

Inventor(s): WAYNE E KELSEY ; LARRY R MARSHALL ; DAVID BUZAWA

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CH CN CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN YU

Title: SYSTEM AND PROCESS FOR MAKING A COATED ARTICLE

Abstract: Source: US2007034321A Systems for transferring at least one coating from a carrier to a surface of an optical article which comprise: an optical article to be coated; a flexible carrier bearing at least one coating to be transferred; an inflatable membrane; and a deformable part that is able to match the geometry of a surface of the optical article when a pressure is exerted on the optical article through inflation of the inflatable membrane. Also described are methods and processes of using such systems; carriers for use in such systems, methods, and processes; and optical articles made using such systems, methods, and processes.

Classifications:

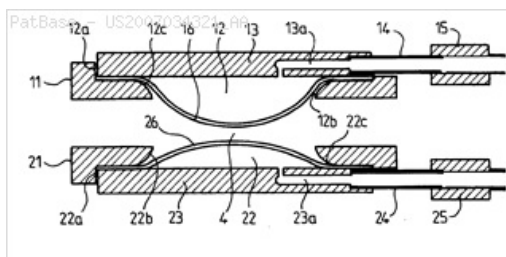
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International (IPC 1-7): B29C11/00

CPC: B29D11/00009 B29D11/0073 B29C63/16 B29L2011/0016 B30B5/02

European: B29C63/16 B29D11/00C B29D11/00H B30B5/02 L29L11/00C

US: 118/76 118/76S 156/230 156/239 156/239S 156/241 156/241S 156/580 156/580S 156/581 156/581S 427/162 427/162S



Family:

Publication number	Publication date	Application number	Application date
BRPI0615206 A2	20110510	BR2006PI15206	20060810
CN101287588 A	20081015	CN200680038106	20060810
CN101287588 B	20110105	CN200680038106	20060810
EP1917136 A1	20080507	EP20060778227	20060810
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US2007034321 AA	20070215	US20050204267	20050815
US2007034322 AA	20070215	US20060345613	20060201
WO07020235 A1	20070222	WO2006EP65233	20060810
WO07020235 C1	20070614	WO2006EP65233	20060810

Priority:

US20050204267 20050815 US20060345613 20060201 WO2006EP65233 20060810

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Inventor(s): PEIGI JIANG

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

Title: PROCESS FOR TINTING, DYEING OR DOPING OF MOULDED COMPONENTS MADE OF TRANSPARENT (CO)POLYAMIDES IN AQUEOUS DYE BATH

Abstract: Source: US2006230553A The present invention relates to a novel composition of dye baths or processing baths and a process for tinting, dyeing or doping of moulded components with functional additives in these aqueous dipping baths or processing baths. The moulded components contain transparent or translucent (co)polyamides. If the moulded components should be tinted or dyed according to an embodiment of the invention, the dyeing can be performed as homogeneous dyeing or as gradient dyeing. The process according to the present invention is particularly suitable for producing high-value objects like **ophthalmic lenses**, sun **lenses** for eyeglasses, magnifying glasses, all kinds of inspection glasses, **polarization** films and display films, particularly if changing depths of color (gradients) are desired. This generating of a dyeing gradient requires dyeing in a dipping process, whereby the desired depth of color is achieved by multiple times of dipping the surface areas of the moulded article in the dye bath.

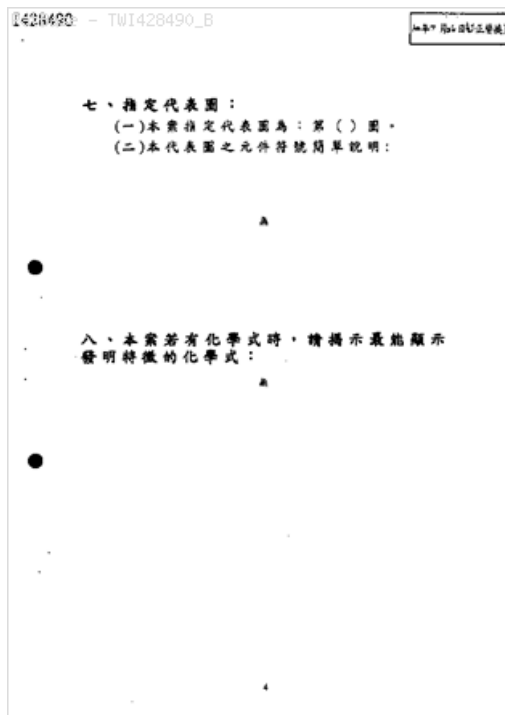
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European: C09B67/00P2B C09B67/00P8B D06P1/651B4 D06P1/651B8 D06P1/90 M08L77/00

US: 8/516 8/564



Family:

Publication number	Publication date	Application number	Application date
AT412687 E	20081115	AT20060007826T	20060413
CN1854386 A	20061101	CN200610072373	20060414
CN1854386 B	20120411	CN200610072373	20060414
DE102006015721 A1	20061019	DE200610015721	20060404
DE102006015721 B4	20080430	DE200610015721	20060404
DE502006001916 D1	20081211	DE200650001916T	20060413
EP1712581 A1	20061018	EP20060007826	20060413
EP1712581 B1	20081029	EP20060007826	20060413
TW200643264 A	20061216	TW20060112874	20060411
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US2006230553 AA	20061019	US20060403042	20060412
US2007294841 AA	20071227	US20070851442	20070907

Priority:

DE200510017321 20050414 DE200610015721 20060404 US20050671594P 20050414
US20060403042 20060412 US20070851442 20070907

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Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR YU

Title: Photochromic material undergoing stable light-induced variation in refractive index and/or birefringence useful in optical data recording and reading systems, **ophthalmic lenses**, etc.

Abstract: Photochromic material capable of undergoing a stable light-induced variation in refractive index and/or birefringence outside the absorption bands of the photochromic material comprises optically anisotropic photochromic molecules optionally covalently bonded to a solid matrix. An Independent claim is also included for a photochromic material capable of undergoing a stable light-induced variation in refractive index and/or birefringence in the infrared, comprising optically anisotropic photochromic molecules optionally covalently bonded to a solid matrix.

Classifications:

International (IPC 8-9): G03C1/73 G11B7/244 (Advanced/Invention); G03C1/73 G11B7/24 (Core/Invention)

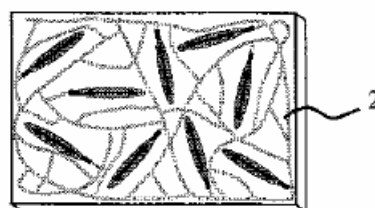
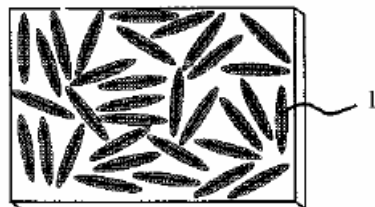
International (IPC 1-7): C09K9/00 G02B1/00 G02C7/00 G11B7/24

CPC: G03C1/73 G11B7/004 G11B7/24 G11B7/244 G11B7/245

G11B7/253 G11B7/258

European: G03C1/73 G11B7/004 G11B7/24 G11B7/244 G11B7/245 G11B7/24B3 S11B7/253 S11B7/258

PatBase - FR2774998_A1



Family:

Publication number	Publication date	Application number	Application date
FR2774998 A1	19990820	FR19980002123	19980219

Priority:

FR19980002123 19980219

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