

Search history

Search IC=(G02B1/11) (Results 12926)

1:

Search 1 and (hard near layer) (Results 2044)

2:

Search 2 and crazing (Results 11)

3:

Search 3 and PD<20150318 (Results 10)

4:

Search PN=(WO2016149644) (Results 1)

5:

Search [SP]: crazing resistant coating and method thereof an anti-reflective coating system configured to resist crazing resulting from applied compressive forces, and an optical article employing the anti-reflective coating system and methods of forming the same. (Results 13)

Search 6 and PD<20150318 (Results 11)

7:

Title: PLASTIC LENS COMPRISING MULTILAYER ANTIREFLECTIVE FILM AND METHOD FOR MANUFACTURING SAME

Abstract: The present invention relates to a plastic lens comprising a multilayer antireflective film and to a method for manufacturing the same. The plastic lens has a multilayer antireflective film present on the surface of a plastic lens substrate, either directly or through another layer. The multilayer antireflective film comprises a composite layer in which at least two metal oxide layers, containing an identical metal element but different quantities of oxygen, are adjacent. In the method for manufacturing the above plastic lens, each of the metal oxide layers constituting said composite layer is formed by employing a single vaporization source and by vapor depositing adjacent layers under differing conditions of partial pressure of reactive oxygen gas.

Classifications:

International (IPC 8-9): B05D5/06 C23C14/06 C23C14/08

C23C14/34 C23C16/40 C23C16/42 C23C16/50 G02B1/11

G02B3/00 (Advanced/Invention);

B05D5/06 C23C14/06 C23C14/08 C23C14/34 C23C16/40

C23C16/42 C23C16/50 G02B1/10 G02B3/00 (Core/Invention)

CPC: G02B1/116 C23C14/083 C23C14/086 C23C14/10

European: C23C14/08H C23C14/08L C23C14/10 G02B1/11D2M

US: 204/192.1 359/585 359/601 427/162 427/529

JP F-Term: 2K009 2K009/AA02 2K009/CC03 2K009/DD03

2K009/DD04 2K009/DD07 2K009/EE03 2K010 4K029 4K029/AA11

4K029/AA21 4K029/AA24 4K029/BA43 4K029/BA45 4K029/BA46

4K029/BA50 4K029/BB02 4K029/BC08 4K029/CA04 4K029/CA06

4K029/CA07 4K030 4K030/BA13 4K030/BA16 4K030/BA42

4K030/BA44 4K030/CA07 4K030/CA11 4K030/CA17 4K030/FA01

JP F-Index: C23C14/06/P C23C14/08/D C23C16/40 C23C16/42

C23C16/50 G02B1/10/A G02B1/116 G02B1/14 G02B3/00/Z

PatBase - US2009141357_AA

Air
Water-repellent layer
SiO ₂
ITO (Oxygen defect)
ITO
Nb ₂ O ₅
SiO ₂
Nb ₂ O ₅
SiO ₂
Nb ₂ O ₅
SiO ₂
Hard coat
Substrate*

*Substrate: Polyurethane based

Family:

Publication number	Publication date	Application number	Application date
JP2009128820 A2	20090611	JP20070306290	20071127
US2009141357 AA	20090604	US20080277929	20081125

Priority:

JP20070306290 20071127

Probable Assignee: HOYA CORP

Assignee(s): (std): HOYA CORP

Inventor(s): (std): KAMURA HITOSHI ; KAWAI HISAO ; TAKAHASHI YUKIHIRO

Agent(s): SIKS AND CO; SUGHRUE MION PLLC

Title: LAMINAR LIGHT-POLARIZING LENS BLANK FOR PRODUCING PRESCRIPTION LENS

Abstract: A thermoformed plastic laminar light-polarizing composite lens blank is produced from a laminate including light-polarizing layer between polymeric layers. At least one of the polymeric layers is an optically isotropic sheet, i.e., a sheet having an optical retardance of 20 nanometers in order to minimize retardation effects of the birefringent material on plane polarized light. The isotropic layer or subsequent thermoforming of unitary portions cut from the laminate provides the convex lens surface of the lens blank. The polymeric layer which forms the concave surface of the lens blank is substantially thicker than the opposed polymeric layer in order to accommodate grinding of the surface thereof to an ophthalmic prescription. Lens blanks are prepared from unitary portions which are cut from a supply of the laminate, placed between thermoforming platens and formed under heat and pressure. By using a series of platens of different radius of curvature, for the forming of the convex surface of the lens blanks, a series or family of lens blanks can be provided to accommodate the grinding of lens to a variety of ophthalmic prescriptions.

Classifications:

International (IPC 8-9): B29C33/42 B29C51/42 B29D11/00 G02B5/30 G02C7/10 G02C7/12 (Advanced/Invention); B29C33/42 (Advanced/Non-invention); B29C51/26 B29D11/00 G02B5/30 G02C7/00 (Core/Invention); B29C33/42 (Core/Non-invention)

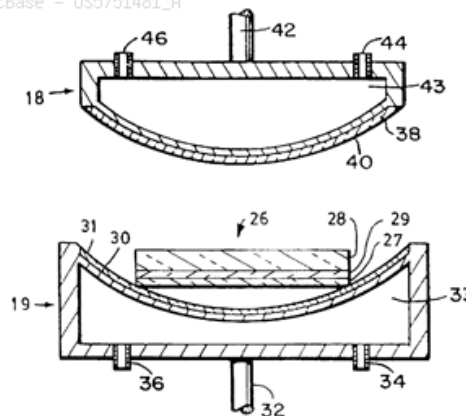
International (IPC 1-7): G02B5/30 G02C7/12

CPC: G02C2202/16 B29C51/428 B29C33/42 B29D11/00413 B29D11/0073 B29K2909/08 B29K2995/0034 B29L2009/00 B29L2025/00 G02B5/30 G02C7/12

European: B29C51/42E B29D11/00C20 B29D11/00H G02B5/30 G02C7/10 G02C7/12 L29C33/42 L29K909/08 L29K995/00E10 L29L25/00 L29L9/00

US: 264/1.32 351/159.56 351/163 359/485 359/485.03

PatBase - US5751481_A

**Family:**

Publication number	Publication date	Application number	Application date
AU199724351 A1	19971029	AU19970024351	19970402
US5751481 A	19980512	US19960628780	19960405
WO9738345 A1	19971016	WO1997US05480	19970402

Priority:

US19960628780 19960405 WO1997US05480 19970402

Probable Assignee: POLAROID CORP

Assignee(s): (std): POLAROID CORP

Assignee(s): POLAROID HOLDING CO ; POLAROID EYEWEAR LLC ; POLAROID INVESTMENT LLC ; POLAROID LATIN AMERICA I CORP ; POLAROID NEW BEDFORD REAL ESTATE LLC ; POLAROID NORWOOD REAL ESTATE LLC ; POLAROID WALTHAM REAL ESTATE LLC ; POLAROID INT ; POLAROID CONSUMER ELECTRONICS LLC WAS KNOWN PET AS ; POLAROID CONSUMER ELECTRONICS INT LLC WAS KNOWN AS ; POLAROID INT HOLDING LLC ; POLAROID F K A OEP IMAGING OPERATING COMPANY COR ; POLAROID F K A OEP IMAGING OPERATING CO CORP ; POLAROID FMR OEP IMAGING OPERATING CORP CORP ; POLAROID CONSUMER ELECTRONICS LLC WAS KNOWN AS PET ; POLAROID CONSUMER ELECTRONICS INT LLC WAS KNOWN AS PETTERS CONSUMER ELECTRONICS INTERNATIONAL LLC.. ; POLAROID CONSUMER ELECTRONICS LLC WAS KNOWN AS PETTERS CONSUMER ELECTRONICS LLC.. ; POLAROID F K A OEP IMAGING OPERATING COMPANY CORP ; WILMINGTON TRUST CO ; POLAROID INT ; ZINK INC ; POLAROID INT HOLDING LLC ; WILMINGTON TRUST CO COLLATERAL AGENT AS ; JPMORGAN CHASE BANK NA ADMINISTRATIVE AGENT AS ; JPMORGAN CHASE BANK NA AS ADMINISTRATIVE AGENT ; MORGAN GUARANTY TRUST CO ; MORGAN GUARANTY TRUST CO OF NEW YORK ; OEP IMAGING OPERATING CORP ; OEP IMAGING OPERATING CORP ; POLAROID CAPITAL LLC ; POLAROID ASIA PACIFIC LLC ; PETTERS CONSUMER BRANDS LLC ; PETTERS CONSUMER BRANDS INT ; POLAROID CONSUMER ELECTRONICS INT ; POLAROID EYEWEAR I LLC ; PETTERS CONSUMER BRANDS INT LLC ; POLAROID (F K A OEP IMAGING OPERATING COMPANY) CORP ; POLAROID (FMR OEP IMAGING OPERATING CORP) CORP

Inventor(s): (std): DALZELL WILLIAM H ; LOSHAK IGOR

Inventor(s): WILLIAM H DALZELL ; IGOR LOSHAK

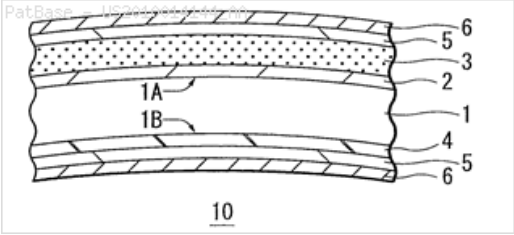
Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP KR LU MC NL PT SE

Title: PLASTIC LENS AND MANUFACTURING METHOD THEREOF

Abstract: A plastic lens plastic includes a plastic substrate (1) having a first main surface that is a convex surface (1A) and a second main surface that is a concave surface (1B), a photochromic compound-containing photochromic layer formed on the convex surface side of the substrate, and an impact-absorbing primer layer formed on the concave surface side of the substrate.

Classifications:

International (IPC 8-9): B05D1/40 B05D5/06 B05D7/02 B32B27/36 G02B1/10 G02B1/11 G02B5/23 G02C7/00 G02C7/02 G02C7/10 G02F1/01 (Advanced/Invention); B05D1/40 B05D5/06 B05D7/02 G02B1/10 G02B5/22 G02C7/00 G02F1/01 (Core/Invention)
CPC: Y10T428/31507 G02B5/23 G02B1/041
European: G02B1/04B G02B5/23
US: 351/159.61 351/163 351/165 351/166 351/44 359/241 359/241P 427/164 427/164S 428/412
JP F-Term: 2H006 2H006/BA01 2H006/BA03 2H006/BA04 2H006/BE02 2H048 2H048/DA04 2H048/DA09 2H048/DA12 2H048/DA24 2H148 2H148/DA04 2H148/DA09 2H148/DA12 2H148/DA24 2K009 2K009/AA02 2K009/AA15 4D075 4D075/AC64 4D075/AE03 4D075/AE07 4D075/CA02 4D075/CB08 4D075/DA07 4D075/DA23 4D075/DB31 4D075/DC24 4D075/EB38
JP F-Index: B05D1/40/A B05D7/02 G02B1/10/A G02B1/10/Z G02B1/115 G02B1/14 G02B5/23 G02C7/00 G02C7/10



Family:

Publication number	Publication date	Application number	Application date
JP2010026183 A2	20100204	JP20080186468	20080717
US2010014144 AA	20100121	US20090503400	20090715
US8092014 BB	20120110	US20090503400	20090715

Priority:

JP20080186468 20080717

Probable Assignee: HOYA CORP
Assignee(s): (std): HOYA CORP ; OTA HIROSHI
Inventor(s): (std): OTA HIROSHI
Agent(s): OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP

Title: METHODS FOR FORMING COATED HIGH INDEX OPTICAL ELEMENTS

Abstract: Disclosed is a method of forming a coated optical element. The method includes providing a mould assembly having opposed mould sections and applying a UV-curable hard coat monomer composition to the casting face of at least one of the mould sections to form a hard coat monomer layer. The hard coat layer is irradiated with UV radiation under conditions to form a partially cured hard coat layer. The assembled mould is filled with a high index optical element precursor material the optical element precursor material and the partially cured hard coat layer are cured to form a high index optical element having a hard coat.

Classifications:

International (IPC 8-9): B29C35/08 B29C37/00 B29D11/00 C09D133/04 C09D4/00 C09D4/06 C09D5/00 G02B1/04 G02B1/10 G02C7/02 (Advanced/Invention);

B29C35/08 B29C37/00 B29D11/00 G02B1/04 G02C7/02 (Core/Invention)

CPC: B29D11/00865

European: B29D11/00K

US: 264/1.38 264/1.380P 351/159.57 351/159.570S 351/166

Family:

Publication number	Publication date	Application number	Application date
AU2007247775 AA	20071115	AU20070247775	20070508
AU2007247775 BB	20120719	AU20070247775	20070508
AU2007247775 BH	20120920	AU20070247775	20070508
CN101466529 A	20090624	CN200780021369	20070508
CN101466529 B	20140716	CN200780021369	20070508
DE602007028695 D1	20130425	DE200760028695T	20070508
EP2015923 A1	20090121	EP20070718854	20070508
EP2015923 A4	20120222	EP20070718854	20070508
EP2015923 B1	20130227	EP20070718854	20070508
ES2407821 T3	20130614	ES20070718854T	20070508
MX2008014299 A1	20090127	MX20080014299	20070508
US2009189303 AA	20090730	US20070299664	20070508
WO07128071 A1	20071115	WO2007AU00607	20070508

Priority:

AU20020366249 20021213 AU20060902419 20060509 WO2007AU00607 20070508
AU20070247775 20070508 EP20070718854 20070508

Probable Assignee: CARL ZEISS AG

Assignee(s): (std): CARL ZEISS VISION AU HOLDING ; DIGGINS DAVID ; PITTOLO MICHAEL

Assignee(s): CARL ZEISS VISION AUSTRALIA HOLDINGS LTD LONSDALE ; CARL ZEISS AG ; CARL ZEISS VISION AUSTRALIA HO ; CARL ZEISS VISION AUSTRALIA HOLDINGS LIMITED ; CARL ZEISS VISION AUSTRALIA HOLDINGS LTD

Inventor(s): (std): DIGGINS DAVID ; PITTOLO MICHAEL ; MICHAEL PITTOLO ; DAVID DIGGINS

Inventor(s): PITTOLO MICHAEL GLENELG ; DIGGINS DAVID FLAGSTAFF HILL

Agent(s): PHILLIPS ORMONDE FITZPATRICK; WUESTHOFF AND WUESTHOFF PATENTANWALTE PARTG MBB; JENKINS PETER DAVID; Jenkins Peter David; PEREZ ELIANA; BUCHANAN INGERSOLL AND ROONEY PC

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

Title: THICKNESS-SHRINKAGE-CONTROLLED DIE ASSEMBLY

Abstract: 1. A die assembly comprising: die holders adapted to receive die members; die members in association with said die holders; and an expansion ring having a coefficient of expansion expressed in any unit of measurement which multiplied by a factor L expressed in the same unit of measurement is substantially equal to the sum of the coefficients of expansion expressed in the same unit of measurement of the die holders, die members, and the article being formed between said die members positioned between spaced surfaces of said die holders, said ring being adapted to come in contact with, said die holders as the pressing operation proceeds, whereby the thickness of said article is controlled according to the linear shrinkage of said expansion ring. Without said die members losing contact with the surface of said article, said factor L being equal to the length of said ring.

Classifications:

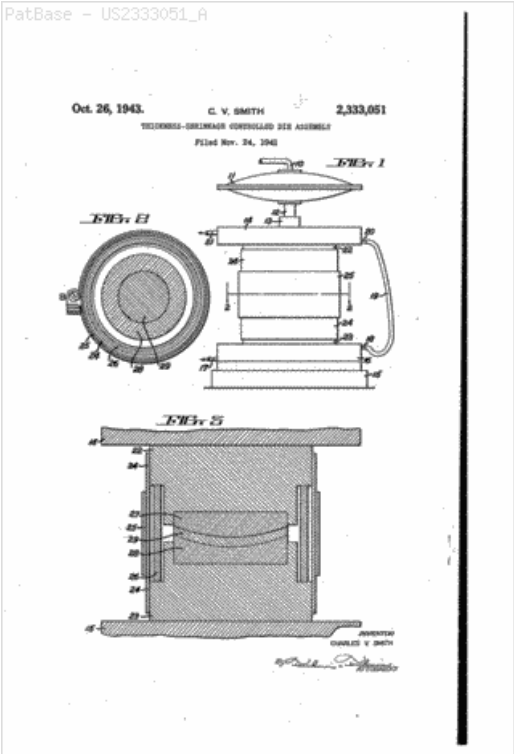
International (IPC 8-9): B29C37/00 B29D11/00 (Advanced/Invention);
B29C31/00 B29C43/00 (Advanced/Non-invention);
B29C37/00 B29D11/00 (Core/Invention);
B29C31/00 B29C43/00 (Core/Non-invention)

International (IPC 1-7): B29D11/00

CPC: B29C31/00 B29C37/005 B29C43/00 B29D11/00413
B29K2909/08 B29L2031/7602 Y10S425/808

European: B29C37/00D B29D11/00C20 L29C31/00 L29C43/00
L29K909/08 L29L31/7602

US: 249/82 264/2.4 264/325 351/177 425/808



Family:

Publication number	Publication date	Application number	Application date
US2333051 A	19431026	US19410420193	19411124

Priority:

US19410420193 19411124

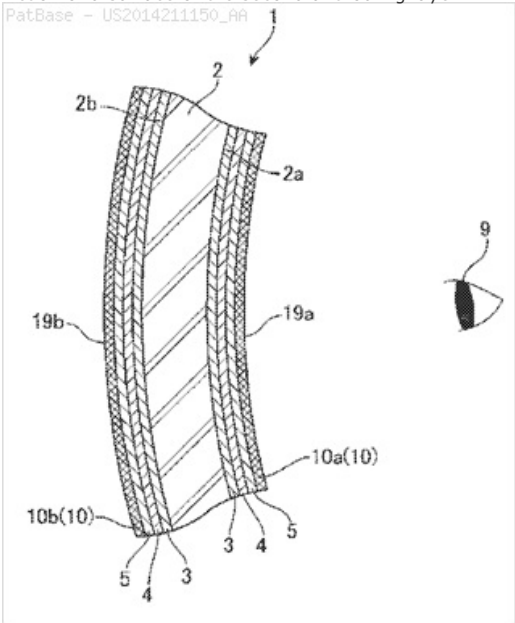
Probable Assignee: UNIVIS LENS CO
Assignee(s): (std): UNIVIS LENS CO ; UNIVIS LENS COMPANY
Assignee(s): THE UNIVIS LENS COMPANY
Inventor(s): (std): SMITH CHARLES V

Title: OPTICAL ARTICLE

Abstract: The optical article includes an optical substrate comprising a concave surface with a radius of curvature of equal to or greater than 350 mm on one side and a convex surface with a radius of curvature of equal to or greater than 120 mm on the other side, a first antifouling layer directly or through at least one additional layer on the concave surface, and a second antifouling layer directly or through at least one additional layer on the convex surface, and satisfies the conditions below:
 $0.01 \leq \text{micro L1} \leq 0.12$
 $0.1 \leq \text{micro L2}$
 $\text{micro L1} < \text{micro L2}$ wherein micro L1 denotes a coefficient of static friction of a surface of the first antifouling layer, and micro L2 denotes a coefficient of static friction of a surface of the second antifouling layer.

Classifications:

International (IPC 8-9): B24B13/00 B24B13/005 B24B9/14
G02B1/10 G02B1/11 G02B1/18 G02B27/00
G02C7/00 (Advanced/Invention)
CPC: G02B27/0006 G02B1/10 G02B1/18 G02B1/105 B24B9/14
B24B13/005 G02B1/11 G02B1/14
US: 1/1 351/159.57 359/507
JP F-Term: 2H006 2H006/BA01 2H006/BA02 2H006/BA03
2H006/BE05 2H006/DA02 2K009 2K009/AA01 2K009/AA15
2K009/BB02 2K009/BB11 2K009/CC03 2K009/CC26 2K009/CC42
2K009/EE05
JP F-Index: G02B1/10/A G02B1/10/Z G02B1/18 G02C7/00



Family:

Publication number	Publication date	Application number	Application date
EP2762929 A1	20140806	EP20140153192	20140130
JP2014145955 A2	20140814	JP20130015204	20130130
JP6257897 B2	20180110	JP20130015204	20130130
US2014211150 AA	20140731	US20140167329	20140129
US9285585 BB	20160315	US20140167329	20140129

Priority:

JP20130015204 20130130

Probable Assignee: EHS LENS PHILIPPINES INC

Assignee(s): (std): EHS LENS PHILIPPINES INC ; HOYA LENS MFG PHILIPPINES INC ; HOYA LENSE MFG PHILIPPINE INC

Assignee(s): HOYA LENS MFG PHILIPPINES INC OF SPECIAL EXPORT PROCESSING ZONE GATEWAY BUSINESS PARK
JAVALERA GENERAL TRIAS CAVITE PHILIPPINES ; HOYA LENSE MANUFACTURING PHILIPPINE INC

Inventor(s): (std): SUZUKI KEIICHI

Agent(s): ALBRECHT THOMAS; SIKS AND CO; SUGHRUE MION PLLC

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: OPTICAL COMPONENT AND METHOD OF MANUFACTURING THE SAME

Abstract: An optical component includes: a plastic base which has a convex surface and a concave surface; and a multilayer film which is disposed on at least the convex surface of the plastic base. The multilayer film has an average reflectivity of 2 percent to 10 percent over a wavelength range of 400 nm to 500 nm.

Classifications:

International (IPC 8-9): B05D5/06 B32B7/02 C08G65/336
C23C14/22 C23C14/24 G02B1/04 G02B1/10 G02B1/11 G02B1/111
G02B1/115 G02B1/14 G02B1/18 G02B5/22 G02B5/28 G02C7/00
G02C7/02 G02C7/10 (Advanced/Invention)

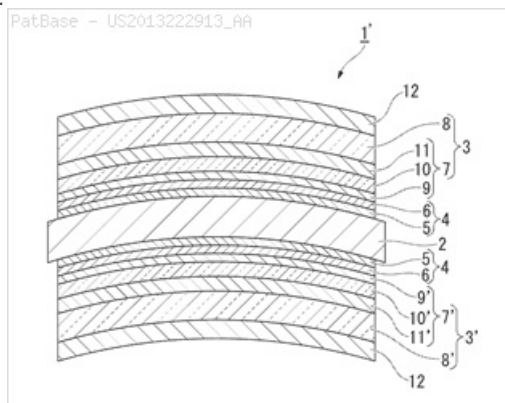
CPC: G02B1/105 C23C14/221 C23C14/24 B05D5/06 G02B1/113
G02B1/10 G02B5/28 G02C7/10 G02C7/104 G02C7/105 G02B1/14
G02B1/18 G02B1/11

European: G02B1/11D G02C7/02

US: 359/513 359/601 427/164 427/525

JP F-Term: 2H006 2H006/BA01 2H006/BA03 2H006/BA06 2H048
2H048/CA14 2H048/CA20 2H048/CA24 2H048/CA29 2H148
2H148/CA14 2H148/CA20 2H148/CA24 2H148/CA29 2K009
2K009/AA07 2K009/AA08 2K009/AA09 2K009/BB11 2K009/CC01
2K009/CC03 2K009/CC26 2K009/CC42 2K009/DD03 2K009/DD04
2K009/EE01 2K009/EE05 2H006/BA04 2H148/CA04 2K009/AA02
2K009/DD06 2K009/EE00 4F100 4F100/AA20 4F100/AA27
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4F100/AT00 4F100/BA05 4F100/BA10 4F100/BA11 4F100/CA13
4F100/EH66 4F100/EJ24 4F100/JB05 4F100/JB06 4F100/JG05
4F100/JM02 4F100/JN06 4F100/JN18 4F100/YY00 4J005 4J005/AA09 4J005/BA00 4J005/BC00 4J005/BD08 2H006/BE05
2K009/AA15 2K009/BB15 2K009/BB25

JP F-Index: G02B1/10/A G02B1/115 G02B1/14 G02B5/22 G02C7/00 G02C7/02 G02C7/10 B32B7/02/103 C08G65/336
G02B1/10/Z G02B1/18 G02B1/116 G02B5/28



Family:

Publication number	Publication date	Application number	Application date
CA2812742 AA	20130326	CA20112812742	20110913
CA2812742 C	20170228	CA20112812742	20110913
CN103282823 A	20130904	CN201180053968	20110913
CN103282823 B	20141231	CN201180053968	20110913
EP2624044 A1	20130807	EP20110828778	20110913
EP2624044 A4	20160330	EP20110828778	20110913
JP2012093689 A2	20120517	JP20100288319	20101224
JP2013008052 A2	20130110	JP20120200993	20120912
JP2013084017 A2	20130509	JP20130026090	20130213
JP5173076 B2	20130327	JP20120200993	20120912
JP5625077 B2	20141112	JP20130026090	20130213
KR101477940 B1	20141230	KR20137009773	20110913
KR20130085415 A	20130729	KR20137009773	20110913
US2013222913 AA	20130829	US20130851679	20130327
WO12043218 A1	20120405	WO2011JP70856	20110913

Priority:

JP20100218711 20100929 JP20100288319 20101224 WO2011JP70856 20110913
JP20120200993 20120912 JP20130026090 20130213

Probable Assignee: NIKON ESSILOR CO LTD

Assignee(s): (std): ISHIMURA KEI ; ITO SATORU ; NIKON ESSILOR CO LTD ; OKUMURA HIROTATSU ; TOMODA MASAOKI

Assignee(s): NIKON ESSILOR CO LTD10-8, RYOGOKU 2-CHOMESUMIDA-KU130-0026TOKYOJP ; NIKON ESSILOR CO

Inventor(s): (std): ISHIMURA KEI ; ITO SATORU ; TOMODA MASAOKI ; OKUMURA HIROTATSU ; TOMOTA MASAOKI

Inventor(s): OKUMURA HIROTATSUJP ; ISHIMURA KEIJP ; TOMODA MASAOKIJP ; ITO SATORUJP

Agent(s): SMART AND BIGGAR; VIERING JENTSCHURA AND PARTNER; SHIGA MASATAKE 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 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: RAPID, THERMALLY CURED, BACK SIDE MAR RESISTANT AND ANTIREFLECTIVE COATING FOR OPHTHALMIC LENSES

Abstract: Disclosed is a process to rapidly spin-apply an AR coating system to a backside of a prescription lens. The AR coating system comprises a polyurethane primer layer, a siloxane thermally cured scratch resistant coating layer, a two-layer sol-gel AR coating, and a hydrophobic layer. The process comprising steps of spin-applying each of the layers provides a quick way to furnish a prescription lens that is AR coated on both sides.

Classifications:

International (IPC 8-9): B05D1/00 B05D1/38 B05D3/02 B05D5/06 B05D7/00 B05D7/02 C03C17/42 C09D183/04 G02B1/11 G02C7/02 (Advanced/Invention)

International (IPC 1-7): B05D1/38 B05D3/02 B05D3/12 B05D5/06 G02C7/02

CPC: G02B1/11 B05D1/005 G02B1/14 C03C17/42 C03C2217/425 C03C2217/475 C03C2217/734 C09D183/04 G02B1/115 G02B1/116

European: C03C17/42 C09D183/04 G02B1/11D2 G02B1/11D2M M03C217/425 M03C217/475 M03C217/734

US: 351/159.57 351/166 351/177 359/581 427/162 427/162P 427/164 427/240 427/240S 427/372.2 427/379 427/380 427/385.5 427/386 427/387 427/393.5 427/425 427/493 427/512 427/515

Family:

Publication number	Publication date	Application number	Application date
AU2003299829 AA	20040714	AU20030299829	20031217
AU2003299829 BB	20080103	AU20030299829	20031217
EP1587635 A1	20051026	EP20030800104	20031217
EP1587635 A4	20060301	EP20030800104	20031217
US2004156983 AA	20040812	US20030739630	20031217
US2007087119 AA	20070419	US20060565510	20061130
US7144598 BB	20061205	US20030739630	20031217
WO04056495 A1	20040708	WO2003US40996	20031217

Priority:

US20020434347P 20021217 US20030739630 20031217 WO2003US40996 20031217
US20060565510 20061130

Probable Assignee: VISION EASE LP

Assignee(s): (std): BOULINEAU MICHAEL S ; INSIGHT EQUITY A P X LP ; VISION EASE LENS INC ; MORAVEC THOMAS J ; VISION EASE LENS ; HAGE MARTIN L

Assignee(s): INSIGHT EQUITY A P X ; ORIX FINANCE CORP ; REGIMENT CAPITAL SPECIAL SITUATIONS FUND IV LP ; REGIMENT CAPITAL SPECIAL SITUATIONS FUND IV LP AGE ; INSIGHT EQUITY APX LP ; 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 ; INSIGHT EQUITY AP X LP ; PNC BANK NATIONAL ASSOCIATION ; GENERAL ELECTRIC CAPITAL AGENT AS CORP ; ANTARES CAPITAL LP ADMINISTRATIVE AGENT AS ; ANTARES CAPITAL LP SUCCESSOR AGENT AS

Inventor(s): (std): BOULINEAU MICHAEL S ; HAGE MARTIN L ; MORAVEC THOMAS J ; THOMAS J MORAVEC ; MICHAEL S BOULINEAU ; MARTIN L HAGE

Inventor(s): HAGE MARTIN ; BOULINEAU MICHAEL ; MORAVEC THOMAS

Agent(s): PHILLIPS ORMONDE FITZPATRICK; INSKEEP INTELLECTUAL PROPERTY GROUP INC; INSKEEP IP GROUP INC

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

JP F-Index: B29D11/00

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; MICHELET ALAIN; 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 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 SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: SPECTACLE LENS

Abstract: PROBLEM TO BE SOLVED: To provide a spectacle lens for reducing the amount entering the inside of eyeball, by transmitting the spectacle lens by a near-ultraviolet from forward, by allowing the near-ultraviolet rays from oblique rearward, when wearing the spectacle to be reflected on a face of an eyeball side of the spectacle lens to reduce an amount entering the inside of the eyeball. SOLUTION: In a coat formed on the face of the eyeball side of the spectacle lens, comprising a transparent base substance and the surface of an outside face, on the spectacle lens a coat which reflects or absorbs wavelength range near-ultraviolet of 350 nm-400 nm on the outside face of the spectacle lens, and forms an antireflection film transmitting the near-ultraviolet on the face of the eyeball side of the spectacle lens.

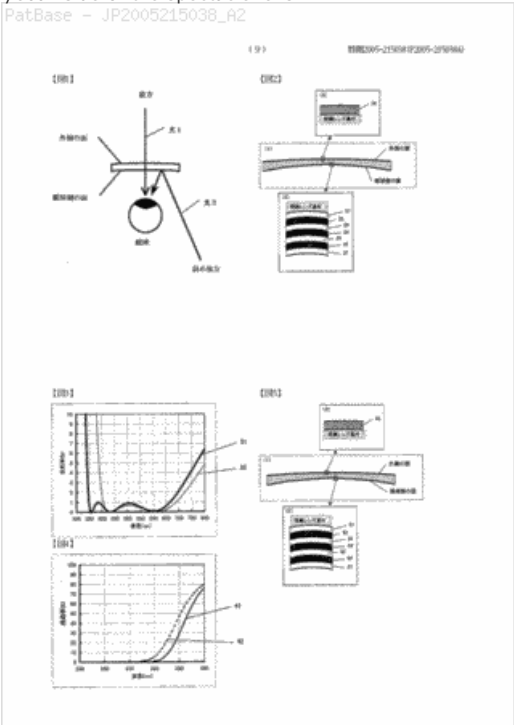
Classifications:

International (IPC 8-9): G02B1/11 G02B5/22
G02C7/02 (Advanced/Invention);
G02B1/10 G02B5/22 G02C7/02 (Core/Invention)

International (IPC 1-7): G02B1/11 G02B5/22 G02C7/02

JP F-Term: 2H006 2H048 2H048/CA13 2H048/CA20 2H048/CA24
2H148 2H148/CA13 2H148/CA20 2H148/CA24 2K009 2K009/AA02
2K009/AA09 2K009/AA12 2K009/CC03 2K009/DD02 2K009/DD03

JP F-Index: G02B1/10/A G02B1/115 G02B1/14 G02B5/22
G02C7/02



Family:

Publication number	Publication date	Application number	Application date
JP2005215038 A2	20050811	JP20040018408	20040127

Priority:

JP20040018408 20040127

Probable Assignee:

SEIKO EPSON CORP

Assignee(s): (std):

SEIKO EPSON CORP

Inventor(s): (std):

KANAI TOSHIHITO

Title: MULTILAYER ELECTRICALLY CONDUCTIVE ANTI-REFLECTIVE COATING

Abstract: The present invention comprises a multilayer inorganic anti-reflective coating with predetermined optical properties, for application on a flexible substrate. The coating comprises a stack consisting of five material layers, whereby the third layer is a dummy layer consisting of an electrically conductive material, preferably indium-tin oxide, which provides the coating with an adjustable electrical sheet resistance of between 25 and 2000 Ω/sq without thereby influencing its optical properties. The anti-reflective coating can be applied onto a flexible substrate (e.g. a polymer film) by means of a single 12 or double pass vacuum magnetron sputtering operation.

Classifications:

International (IPC 8-9): B32B7/02 B32B9/00 C03C17/34 G02B1/00 G02B1/11 (Advanced/Invention);

B32B7/02 B32B9/00 G02B1/00 (Advanced/Non-invention)

International (IPC 1-7): B05D5/12 B32B7/02 B32B9/00 C03C17/34 G02B1/00 G02B1/11 G02B27/22 G02B5/28

CPC: Y10S428/913 C23C14/35 G02B1/16 G02B1/116 C03C17/3417 B32B7/02 B32B2551/00 G02B1/04

European: C03C17/34D2 G02B1/11D2M

US: 359/469 359/472 359/585 359/586 359/589 427/124 427/126.3 427/81 427/97.1 428/701 428/702 428/913

JP F-Term: 2K009 2K009/AA07 2K009/AA15 2K009/BB24 2K009/CC03 2K009/CC24 2K009/DD04 2K009/DD09 2K009/EE03

4F100 4F100/AA20 4F100/AA21 4F100/AA33 4F100/AK25

4F100/AK42 4F100/AR00 4F100/BA05 4F100/BA07 4F100/CC00

4F100/EG00 4F100/EH66 4F100/EJ50 4F100/GB41 4F100/HB00

4F100/JD04 4F100/JG01 4F100/JG04 4F100/JK13 4F100/JL00

4F100/JL10 4F100/JN06 4F100/JN18 4F100/YY00

JP F-Index: B32B7/02/103 B32B9/00/A G02B1/10/A G02B1/116 G02B1/14 G02B1/16

PatBase - US6975453_BA

U.S. Patent

Dec. 13, 2006

Sheet 1 of 7

US 6,975,453 B1

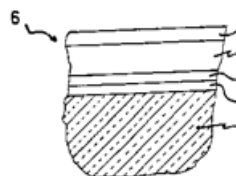


FIG. 1

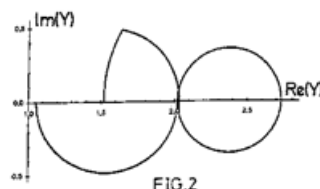


FIG. 2

Family:

Publication number	Publication date	Application number	Application date
AT265693 E	20040515	AT19980956904T	19981027
AU199913377 A1	19990517	AU19990013377	19981027
AU745365 B2	20020321	AU19990013377	19981027
CN1131440 C	20031217	CN19988010772	19981027
CN1280676 A	20010117	CN19988010772	19981027
DE69823539 D1	20040603	DE19986023539	19981027
DE69823539 D1	20040603	DE19986023539T	19981027
DE69823539 T2	20050414	DE19986023539T	19981027
EP0913712 A1	19990506	EP19970203335	19971029
EP1027620 A1	20000816	EP19980956904	19981027
EP1027620 B1	20040428	EP19980956904	19981027
JP2001521201 T2	20011106	JP20000518292T	19981027
JP4255617 B2	20090415	JP20000518292T	19981027
KR100533348 B1	20051205	KR20007003856	20000410
KR20010031039 A	20010416	KR20007003856	19981027
US6975453 BA	20051213	US20000529973	20000424
WO9922253 A1	19990506	WO1998EP06996	19981027

Priority:

EP19970203335 19971029

EP19980956904 19981027

EP19980956904 19981027

WO1998EP06996 19981027

Probable Assignee: INNOVATIVE SPUTTERING TECHNOLOGY

Assignee(s): (std): BEKAERT NV SA ; BEKAERT SA NV ; INNOVATIVE SPUTTERING TECH ; LIPPENS PAUL ; PERSOONE PETER

Assignee(s): N V BEKAERT S A ; N V BEKAERT S A ZWEVEGEM ; INNOVATIVE SPUTTERING TECHNOLOGY

Inventor(s): (std): LIPPENS P ; LIPPENS PAUL ; PERSOONE P ; PERSOONE PETER

Inventor(s): PETER PERSOONE ; PLIPPENS ; P LIPPENS ; P PERSOONE ; PAUL LIPPENS

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; FOLEY AND LARDNER LLP

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