8480180

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

April 19, 2024

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE RECORDS OF THIS OFFICE OF THE FILE WRAPPER AND CONTENTS OF:

APPLICATION NUMBER: ***13/890,809***
FILING DATE: ***May 09, 2013***
PATENT NUMBER: ***10613355***
ISSUE DATE: ***April 07, 2020***

Certified by

Performing the Functions and Duties of the
Under Secretary of Commerce
for Intellectual Property
and Director of the United States
Patent and Trademark Office

Luxottica Ex. 1003 (Part 1 of 5)
IPR Petition USP 10,613,355
E_PA_LUX_003897

PTO/AIA/15 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No.	91904-857754
First Inventor	Ronald Blum
Title	HIGHLY MOISTURE RESISTANT ELECTRONIC EYEGLASS FRAME - COMBINED FILING
Express Mail Label No.	

APPLICATION ELEMENTS
See MPEP chapter 600 concerning utility patent application contents.

1. ☐ **Fee Transmittal Form (PTO/SB/17 or equivalent)**
2. ☐ **Applicant asserts small entity status.** See 37 CFR 1.27.
3. ☐ **Applicant certifies micro entity status.** See 37 CFR 1.20.
4. ☒ **Specification** [*Total Pages* 43]
   Both the claims and abstract must start on a new page
   (For information on the preferred arrangement, see MPEP 608.01(a))
5. ☒ **Drawing(s)** (*35 U.S.C.113*) [*Total Sheets* 26]
6. **Inventor's Oath or Declaration** [*Total Sheets* ___]
   (Including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))
   a. ☐ Newly executed (original or copy)
   b. ☐ A copy from a prior application (37 CFR 1.63 (d))
7. ☒ **Application Data Sheet**. **See Note below.*
   See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. ☐ **CD-ROM or CD-R**
   in duplicate, large table or Computer Program (Appendix)
   ☐ Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission**
   (if applicable, items a.-c. are required)
   a. ☐ Computer Readable Form (CRF)
   b. Specification Sequence Listing on:
      i. ☐ CD-ROM or CD-R (2 copies); or
      ii. ☐ Paper
   c. ☐ Statements verifying identity of above copies

ADDRESS TO:
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

ACCOMPANYING APPLICATIONS PARTS

10. ☐ **Assignment Papers** (cover sheet & document(s))
    Name of Assignee _____
11. ☐ **37 C.F.R. 3.73(c) Statement** ☐ **Power of Attorney**
    (when there is an assignee)
12. ☐ **English Translation Document** *(if applicable)*
13. ☐ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    ☐ Copies of citations attached
14. ☐ **Preliminary Amendment**
15. ☐ **Return Receipt Postcard** (MPEP 503)
    (Should be specifically itemized)
16. ☐ **Certified Copy of Priority Document(s)**
    (if foreign priority is claimed)
17. ☐ **Nonpublication Request**
    Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. ☐ Other: _____

***Note**: (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

☒ The address associated with Customer Number 72162 OR ☐ Correspondence address below

Name					
Address					
City		State		Zip Code	
Country		Telephone		Email	

Signature	/James E. Golladay/		Date	May 9, 2013	
Name (Print/Type)	James E. Golladay			Registration No. (Attorney/Agent)	58,182

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

MOISTURE-RESISTANT EYE WEAR

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] The present application claims priority to and incorporates by the reference in the entirety each of the following provisional patent applications: U.S. Prov. Pat App. No. 61/524,567, filed August 17, 2011; U.S. Prov. Pat. App. No. 61/537,205, filed September 21, 2011; U.S. Prov. Pat. App. No. 61/563,937, filed November 28, 2011; U.S. Prov. Pat. App. No. 61/441,817, filed February 11, 2011; U.S. Prov. Pat. No. 61/358,447, filed June 25, 2010; U.S. Prov. Pat. No. 60/929,419, filed June 26, 2007; and U.S. Prov. Pat. App. No. 61/638,290, filed April 25, 2012.

[0002] The present application is a continuation-in-part of, and claims priority to and incorporates by the reference in the entirety each of the following patent applications: U.S. Pat. App. No. 13/726,267, filed December 24, 2012; U.S. Pat. App. No. 13/587,645, filed August 18, 2012 and entitled "Moisture-Resistant Electronic Spectacle Frames"; U.S. Pat. App. No. 13/372,240, filed February 13, 2012, and entitled "Electronic Frames Comprising Electrical Conductors"; U.S. Pat. App. No. 13/169,996, filed June 27, 2011, and entitled "High Performance, Low Cost Multifocal Lens Having dynamic Progressive Optical Power Region"; U.S. Pat. App. No. 12/834,526, filed July 12, 2010, and entitled "Electronic Eyeglass Frame"; U.S. Pat. App. No. 13/298,997 filed November 17, 2011, and entitled "Electronic Spectacle Frames"; U.S. Pat. App. No. 13/298,992 filed November 17, 2011, and entitled "Electronic Spectacle Frames"; and U.S. Pat. App. No. 12/054,299 filed March 24, 2008, and entitled "Electronic Eyeglass Frame".

BACKGROUND

[0003] The present subject matter relates to various types of eyewear including electronic functional members, including, for example, electronic focusing eyeglasses, electro-active eyeglasses, electronic eyewear providing 3D capabilities, etc.

[0004] Unfortunately, it has been found that in some environments, particularly those having high humidity or causing the wearer to sweat, commercially available electronic eyewear and

frames may suffer from shorting of electronic connections and thus impede or cause the electronic application used with the eyewear to fail.

[0005] Thus there is a need for a solution to allow for electronic eyewear and frames to be even more robust in all environments including those whereby there is an abundance of moisture present, one whereby there are fewer electrical contact points exposed to the environment, and/or one that involved fewer moving and/or open and shut electrical connections.

SUMMARY

[0006] The technology includes eyewear having an optical functional member, an electronics module, and at least one sealed conductive element. The electronics module can include electronics for controlling the optical functional member. The sealed electrical connective element connects the electronics of the electronics module to the optical functional member. The optical functional member can include an electrical connector, and the connective element can directly connect the electronics of a sealed electronics module to the electrical connector of the optical functional member.

[0007] The present subject matter may be applied, by way of example only, in and/or with electronic focusing eyeglasses, electro-active eyeglasses, fluid lenses being activated by way of an electronic actuator, mechanical or membrane lenses being activated by way of electronics, electro-chromic lenses, electronic fast tint changing liquid crystal lenses, lenses whose tint can be altered electronically, lenses that by way of an electrical charge can resist or reduce the attraction of dust particles, lenses or eyeglass frames housing or having an electronic display affixed thereto, electronic eyewear providing virtual reality, electronic eyewear providing 3D capabilities, electronic eyewear providing gaming, and electronic eyewear providing augmented reality.

[0008] In some embodiments, the eyewear can include an intermediate electrical contact. In those embodiments, the optical functional member can include an electrical connector, and the connective element can connects the electronics of the electronics module to the electrical connector(s) of the optical functional member through the intermediate electrical contact. The intermediate electrical contact can be a plug-and-receptacle electrical contact. In some embodiments, the intermediate electrical contact is located at one of: a rim of the eyewear, the

rear 1/3 of the temple, the middle of the temple, the forward 1/3 of the temple, the rim lock or hinge, of the eyewear, a surface of the optical functional member, a frame front of the eyewear, an electronic display, an electronic controller, and between the rim and the lens of the eyewear.

[0009] In some embodiments, the eyewear can include a temple and a rimlock. In those embodiments, the electronics module can be located in the temple, and the connective element can be routed from the electronics module through the rimlock to the optical functional member. In some embodiments, the rimlock includes an upper rimlock and a lower rimlock, and the connective element is routed between the upper rimlock and the lower rimlock. The rimlock can include upper rimlock and a lower rimlock, and the connective element can form a layer between the upper rimlock and the lower rimlock. The layer can be insulating. In some embodiments, the connective element can be a conductive compressible member that can be conductive rubber. In some embodiments, the connective element comprises a multi-conductor cable.

[0010] The technology includes an eyewear frame that includes an electronics module and at least one conductive element. The electronics module includes electronics for controlling an optical functional member. The sealed electrical connective element(s) can connect the electronics of the electronics module at a first end of the connective element, and can connect to an optical functional element at a second end of the connective element. The sealed electrical connective element can connect one electrical module to another electrical module or to a plurality of different electrical modules. In some embodiments, the optical functional member includes at least one electrical connector, and the connective element can directly connect the electronics of a sealed electronics module to the electrical connector of the optical functional member.

[0011] In some embodiments, the frame includes at least one intermediate electrical contact, and the optical functional member comprises at least one electrical connector. In such embodiments, the connective element can connect the electronics of the electronics module to the electrical connector of the optical functional member through the intermediate electrical contact. In some such embodiments, the intermediate electrical contact is a plug-and-receptacle.

[0012] The intermediate electrical contact is located at one of: a rim of the eyewear, the rear 1/3 of the temple, the middle of the temple, the forward 1/3 of the temple, the rim lock or hinge,

of the eyewear, a surface of the optical functional member, a frame front of the eyewear, an electronic display, an electronic controller, and between the rim and the lens of the eyewear.

[0013] In some embodiments, the eyewear frame can include a temple and a rimlock. In such embodiments the electronics module can be located in the temple, and the connective element can be routed from the electronics module through the rimlock to the optical functional member. In some such embodiments, the rimlock can include an upper rimlock and a lower rimlock, and the connective element can be routed between the upper rimlock and the lower rimlock. In some such embodiments, the rimlock can include an upper rimlock and a lower rimlock, and the connective element can form a layer between the upper rimlock and the lower rimlock. The layer can be an electrically insulating layer. The connective element can be a conductive compressible member, which can be conductive rubber. The connective element can be a multi-conductor cable.

[0014] The technology includes eyewear including at least one electrical conductor and at least one non-electrically-conductive grease coating a portion of the electrical conductor. In such embodiments, the grease can be silicone grease.

[0015] The disclosed technology includes methods of assembling eyewear. Some such methods include coating a portion of at least one electrical conductor of the eyewear with non-electrically-conductive grease, which can be silicone grease. In some such methods, the grease can be applied between surfaces of a conducting portion of a rimlock of the eyewear and an insulating layer of the eyewear.

[0016] The disclosed technology includes additional methods of assembling eyewear. Such methods include affixing a portion of eyewire to a rimlock to form a first stage assembly, wherein each surface point of the first stage assembly comprises an single electrical node; bisecting the first stage assembly, forming an upper rimlock with upper eyewire and a lower rimlock with lower eyewire; and coating the bisected first stage assembly with an electrically-insulating coating. Some such methods include removing the coating from at least one area of electrical connection.

[0017] The technology also includes eyewear including a lens comprising electro-active material, and in some cases a gasket. The electro-active lens, can be characterized by a lens edge,

and can include at least one electrical contact on the lens edge. The gasket can be configured to fit around the lens edge to be substantially resistant to the ingress of liquid between the gasket and the lens edge. The gasket can have formed therein an aperture to corresponding to the electrical contact. In such embodiments, the electrical contact surface can be a conductive compliant material fitted to the aperture to substantially resist the ingress of liquid between the gasket and the electrical contact. In other embodiments the connection from the connector to the lens or optical functional member can be sealed by way of example only, an adhesive, caulk, or another material that forms a water resistant barrier.

[0018] In some embodiments, an electrically conductive caulk can be used, which is also moisture resistant and/or moisture proof.

[0019] In some embodiments, the technology can include an eyewear temple assembly that includes a temple body and an electronics module. The temple body can form a cavity therein, and can be configured to be removeably attachable to eyewear. The electronics module can be housed in the cavity, and can be operable to perform a function other than control of electro-active optics. In such embodiments, the temple assembly is configured to maintain the electronics module at least one of moisture resistant, salt resistant, and moisture proof.

[0020] In some such embodiments, the electronics module includes at least one of: a transmitter operable to transmit a signal in response a user input; a sensor operable to sense at least one of: the environment of the electronics module, and a condition of the electronics module; and an output module operable to output at least one of: an acoustic signal, a visible light signal, and a vibration signal. In some such embodiments containing a sensor, the electronics module includes s at least one of a temperature sensor, a position sensor, an electromagnetic radiation sensor, GPS, and a pedometer.

[0021] In some embodiments of the temple assembly, the cavity can be formed with an opening at a surface of the temple body, and a cover of the eyewear temple can seal the opening, in a fashion that electronics module is maintained as at least one of moisture resistant, salt resistant, and moisture proof at least in part by the cover. In some such embodiments, the cavity can be formed with only one opening, and the one opening is at a front surface of the temple body. In other such embodiments, the cavity can be formed with only one opening, and the one opening is at a wearer-facing surface of the temple body. In some embodiments of the temple

assembly, the electronics module can be is releasably secured in the cavity, and the electronics module itself can be at least one of moisture resistant, salt resistant, and moisture proof.

[0022] In some embodiments, a sealed electronic module may house one or more of an electronic sensor, manual controls and/or automatic controls. In embodiments, eyewear may be configured to be placed in one or more of an automatic mode, a manual on mode, and/or a manual off mode. In embodiments, one electronic module may be provided to electrically power a pair of lenses, or two such electronic modules can be provided. In embodiments, the electronic modules may be sealed such that they are water resistant or water proof.

[0023] Aspects of the invention disclosed herein may be used to address pressing needs of making electronic eyewear more moisture resistant and more robust. This may allow more reliable performance from the electronic eyewear and, thus, happier users. Electronic eyewear, or electronic eyeglasses, may be understood as typically including electronic frames that provide an electrical connection to, by way of example only, electronic focusing eyeglasses, electro-active eyeglasses, fluid lenses being activated by way of an electronic actuator, mechanical or membrane lenses being activated by way of electronics, electro-chromic lenses, electronic fast tint changing liquid crystal lenses, lenses whose tint can be altered electronically, lenses that by way of an electrical charge can resist or reduce the attraction of dust particles, lenses or eyeglass frames housing or having an electronic display affixed thereto, electronic eyewear providing virtual reality, electronic eyewear providing 3D capabilities, electronic eyewear providing gaming, and electronic eyewear providing augmented reality.

[0024] Additional features, advantages, and embodiments of the invention may be set forth or apparent from consideration of the following detailed description, drawings, and claims. Moreover, it is to be understood that both the foregoing summary of the invention and the following detailed description are exemplary and intended to provide further explanation without limiting the scope of the invention claimed. The detailed description and the specific examples, however, indicate only preferred embodiments of the invention. Various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description.

DESCRIPTION OF THE DRAWINGS

[0025] The accompanying drawings, which are included to provide a further understanding of the invention, are incorporated in and constitute a part of this specification, illustrate embodiments of the invention and together with the detailed description serve to explain the principles of the invention. No attempt is made to show structural details of the invention in more detail than may be necessary for a fundamental understanding of the invention and various ways in which it may be practiced. In the drawings:

[0026] FIG. 1 illustrates electro-active spectacles in accordance with an aspect of the present technology.

[0027] FIG. 2 illustrates a side view of the electro-active spectacles depicted in FIG. 1 in accordance with an aspect of the present technology.

[0028] FIG. 3 illustrates an exemplary configuration of electrical components of the electro-active spectacles in accordance with an aspect of the present technology.

[0029] FIG. 4 illustrates an exemplary configuration of electrical connectivity between a battery and an electronic module depicted in FIG. 3 in accordance with an aspect of the present technology.

[0030] FIG. 5 illustrates an electronic module in accordance with an aspect of the present technology.

[0031] FIG. 6 illustrates an electro-active lens in accordance with an aspect of the present technology.

[0032] FIG. 7 illustrates a portion of a frame in accordance with an aspect of the present technology.

[0033] FIG. 8 illustrates an exploded view of the frame depicted in FIG. 7 in accordance with an aspect of the present technology.

[0034] FIG. 9 illustrates a portion of electro-active spectacles in accordance with an aspect of the present technology.

[0035] FIG. 10 illustrates a front a view of electro-active spectacles in accordance with an aspect of the present technology.

[0036] FIG. 11 illustrates a portion of a right temple of electro-active spectacles in accordance with an aspect of the present technology.

[0037] FIG. 12-A and FIG. 12-B illustrate a gasket of the present technology.

[0038] FIG. 13 illustrates a representative block diagram of electro-active spectacles in accordance with an aspect of the present technology.

[0039] FIG. 14 illustrates a portion of a right temple of electro-active spectacles in accordance with an aspect of the present technology.

[0040] FIG. 15 illustrates a portion of a right temple of electro-active spectacles in accordance with an aspect of the present technology.

[0041] FIG. 16 illustrates an electro-active frame in accordance with an aspect of the present technology.

[0042] FIG. 17 illustrates electro-active spectacles in accordance with an aspect of the present technology.

[0043] FIG. 18 illustrates electro-active spectacles in accordance with an aspect of the present technology employing plug connections among electrical elements.

[0044] FIG. 19 illustrates a portion of a right temple of electro-active spectacles in accordance with an aspect of the present technology.

[0045] FIG. 20 illustrates a portion of a right temple of electro-active spectacles in accordance with an aspect of the present technology.

[0046] FIG. 21 illustrates a temple assembly in accordance with aspects of the present technology.

[0047] FIG. 22 illustrates an electro-active lens assembly according to an aspect of the present technology.

[0048] FIGS. 23A-23B illustrate portions of a temple assembly of electro-active eyewear in accordance with an aspect of the present technology.

[0049] FIGS. 24A-24C illustrate portions of a temple assembly of electro-active eyewear in accordance with an aspect of the present technology.

[0050] FIG. 25 illustrates steps in an exemplary method of forming eyewear with electrical connections according to an aspect of the present technology.

DETAILED DESCRIPTION

[0051] It is understood that the invention is not limited to the particular methodology, protocols, etc., described herein, as these may vary as the skilled artisan will recognize. It is also to be understood that the terminology used herein is used for the purpose of describing particular embodiments only, and is not intended to limit the scope of the invention. It also is to be noted that as used herein and in the appended claims, the singular forms "a," "an," and "the" include the plural reference unless the context clearly dictates otherwise. Thus, for example, a reference to "a lens" is a reference to one or more lenses and equivalents thereof known to those skilled in the art.

[0052] Unless defined otherwise, all technical terms used herein have the same meanings as commonly understood by one of ordinary skill in the art to which the invention pertains. The embodiments of the invention and the various features and advantageous details thereof are explained more fully with reference to the non-limiting embodiments and examples that are described and/or illustrated in the accompanying drawings and detailed in the following description. It should be noted that the features illustrated in the drawings are not necessarily drawn to scale, and features of one embodiment may be employed with other embodiments as the skilled artisan would recognize, even if not explicitly stated herein. Descriptions of well-known components and processing techniques may be omitted so as to not unnecessarily obscure the embodiments of the invention. The examples used herein are intended merely to facilitate an understanding of ways in which the invention may be practiced and to further enable those of skill in the art to practice the embodiments of the invention. Accordingly, the examples and embodiments herein should not be construed as limiting the scope of the invention, which is defined solely by the appended claims and applicable law. Moreover, it is noted that like reference numerals reference similar parts throughout the several views of the drawings.

[0053] While enabling embodiments of the present technology are disclosed in the context of electro-active eyeglasses having at least one electro-active lens as an optical functional member, the technology can find application where the optical functional member is other than an electro-

active lens, e.g., in fluid lenses being activated by way of an electronic actuator, mechanical or membrane lenses being activated by way of electronics, electro-chromic lenses, electronic fast tint changing liquid crystal lenses, , thermo-chromic lenses, lenses that by way of an electrical charge can resist or reduce the attraction of dust particles, lenses or eyeglass frames housing or having an electronic display affixed thereto, electronic eyewear providing virtual reality, electronic eyewear providing 3-D capabilities, electronic eyewear providing gaming, and electronic eyewear providing augmented reality.

[0054] FIG. 1 illustrates electro-active spectacles or eyeglasses 100 in accordance with an aspect of the present technology. The electro-active spectacles 100 shown in FIG. 1 are fully rimmed eyeglasses comprising left and right temples and a frame front (the frame front can comprise left and right eyewires or rims, and a bridge, as will be appreciated by one skilled in the pertinent art). Electro-active spectacles and frames of the present technology can be fully rimmed, partially rimmed, or rimless. The electro-active spectacles 100 can include a frame 102, a first electro-active lens 104, and a second electro-active lens 106. The first and second electro-active lenses 104 and 106 can each be an electro-active lens as described in U.S. Pat. Appl. No. 12/408,973 (hereinafter the '973 application), filed March 23, 2009, entitled "Electro-Active Diffractive Lens and Method for Making the Same," which is hereby incorporated by reference in its entirety. In general, the first and second electro-active lenses 104 and 106 can be any lens or optic capable of changing, varying or tuning the optical power they each provide with the application of electricity.

[0055] The right temple portion can be considered to be a first temple portion that is positioned adjacent to the first electro-active lens 104. The left temple portion can be considered to be a second temple portion that is positioned adjacent to the second electro-active lens 106. The bridge can be considered to be part of the frame or to be a separate portion of the electro-active spectacles 100 that connects, joins or supports the first and second electro-active lenses 104 and 106. The electro-active spectacles 100 can include one or more power sources for powering the first and second electro-active lenses 104 and 106. As an example, each power source can include one or more batteries (e.g., conventional rechargeable batteries and/or solar batteries). The electro-active spectacles 100 can also include electronics that can govern operation of the electro-active lenses 104 and 106. The electronics can comprise one or more control units (e.g., a

control unit matched to each electro-active lens) to determine when to activate and when to deactivate the electro-active lenses 104 and 106. The one or more power sources and the electronics of the electro-active spectacles 100 can be housed or contained within, or on, any portion of the frame 102. The one or more power sources and the one or more control units of the electro-active spectacles 100 can be grouped together or distributed or dispersed in any manner within, throughout, or on the frame 102.

[0056] The operation of the electro-active lenses 104 and 106 can be synchronized. That is, the one or more control units housed in the frame 102 can coordinate the activation and deactivation of the electro-active lenses 104 and 106 such that the electro-active lenses 104 and 106 are activated or deactivated at substantially the same time.

[0057] The one or more control units housed in the frame 102 can automatically operate (e.g., activate and deactivate) the electro-active lenses 104 and 106. As an example, the electro-active lenses 104 and 106 can be activated or deactivated based on a user's head tilt as sensed by the one or more control units. The one or more control units can also enable a user to interact with the electro-active lenses 102 and 104. As an example, a user can manually activate or deactivate the electro-active lenses 104 and 106, override automatic operation of the electro-active lenses 104 and 106, place the electro-active spectacles 100 into a standby mode (in which the electro-active lenses 104 and 106 are neither automatically or manually activated or deactivated), or power off the electro-active spectacles 100.

[0058] The electronics of the electro-active spectacles 100 can include a processor, memory, a power source (e.g., a battery), a gyroscope, and an accelerometer. As previously mentioned, these components can be grouped together or can be distributed within different portions of the frame 102. As an example, all or a portion of these components can be grouped together to form a self-contained electronic module. The electro-active spectacles 100 can comprise a single electronic module that governs synchronized operation of both the first and second electro-active lenses 104 and 106. Alternatively, operation of the first electro-active lens 104 can be governed by a first electronic module and operation of the second electro-active lens 106 can be governed by a second electronic module. Under this scenario, the first and second electronic modules can communicate using one or modes of electrical connectivity (e.g., wire(s) embedded within a portion of the frame, conductive portion(s) of the frame, conductive metal layer(s) or core(s)

encapsulated by non-conductive material, conductive layer(s) of the electro-active lens(es) 104 and 106, optical link(s), wireless radio frequency or magnetic field communication).

[0059] FIG. 2 illustrates a side view of the electro-active spectacles 100 depicted in FIG. 1. As shown in FIG. 2, the electro-active spectacles 100 can comprise an electronic module (or control unit) 202. As described above, the electronic module 202 can include various electronics components. The electronic module 202 can be positioned near the front temple of the frame 102. The electronic module 202 can be positioned within the frame 102 (e.g., in an area or cavity of the frame 102) and can be removable and replaceable. Alternatively, the electronic module can be built into the frame 102 and form a part of the frame 102. The electronic module 202 can be located on an outer portion of a temple of the frame 102 (further from a wearer) or can be located on an inner portion of the temple of the frame 102 (closer to the wearer). The electronic module 202 can be positioned on a left temple or a right temple of the frame 102 (i.e., on either side of the frame 102). The electronic module 202, when inserted into the temple of the frame 102, can be flush with the other portions of the frame 102. All or a portion of the electronic components used to operate the electro-active lens 104, 106 can be contained within the electronic module 202.

[0060] The electronic module 202 can also control operation (or at least ensure synchronized operation) of the electro-active lens 104, 106. Electrical connections between the electronic module 202 and one or more of the electro-active lenses 104 and 106 can be routed through the frame 102 and/or the electro-active lenses 104 and 106 as will be described in more detail below. According to an aspect of the present technology, connectivity between the electronic module 202 and one or more of the electro-active lenses 104 and 106 can be accomplished by using a single conductive wire.

[0061] In some embodiments of the present technology, a first electrical connection (e.g., comprising one or more conductive links or wires) can be used to provide connectivity between one or more power sources of the electro-active spectacles 100 and one or more electronic modules 202 and a second electrical connection (e.g., comprising one or more conductive links or wires) can be used to provide connectivity between the one or more electronic modules 202 and the one or more electro-active lenses (e.g., the electro-active lenses 104 and 106). For example, a battery positioned within the frame 102 can be coupled to an electronic module 202

also positioned within the frame 102 using a first conductive link. A second, distinct conductive link (e.g., electrically isolated from the first conductive link) can be used to couple the electronic module 202 to the electro-active lenses 104 and 106.

[0062] In some embodiments of the present technology, the same electrical connection (e.g., comprising one or more electrical wires) can be used to couple the one or more power sources of the electro-active spectacles 100, the one or more electronic modules 202 and the electro-active lenses 104 and 106 as will be appreciated by one skilled in the pertinent art. This can enable a power source to be positioned on one side of the frame 102 (e.g., in a first temple) and an electronic module 202 to be positioned on the other side of the frame 102 (e.g., in a second temple) while using the same conductive link to simultaneously provide power to the electronic module 202 and controlling signals from the electronic module 202 to the electro-active lenses 104 and 106. As a result, the number of conductive links (e.g., embedded wires) positioned within the frame 102 can be minimized.

[0063] FIG. 3 illustrates an exemplary configuration of electrical components of the electro-active spectacles 100. Specifically, FIG. 3 shows a battery 302 located near the end of the frame 102 of the electro-active spectacles 100. A portion of the end of the frame 102 is removed for illustration purposes only. The battery 302 can be a rechargeable battery and can provide power to the electrical components located within the electronic module 202. The battery 302 can provide power to one or more electronic modules of the present technology.

[0064] FIG. 4 illustrates an exemplary configuration of electrical connectivity between the battery 302 depicted in FIG. 3 and the electronic module 202. A portion of the frame 102 is removed for illustration purposes only. As shown in FIG. 4, conducting wires 402 can couple the battery 302 to the electronic module 202. The conducting wires 402 can be positioned within the frame 102 (e.g., embedded within the frame 102) of the electro-active spectacles 100. Conducting wires 402 are insulated and capable of being heated and bent while retaining conductor and insulator integrity in order to adjust the shape of temple. The conducting wires can be a cable or a flexible cable

[0065] FIG. 5 illustrates the electronic module 202 in accordance with an aspect of the present technology. The electronic module 202 can contain all or a portion of the electronic components that govern operation of one or more electro-active lenses including a power source (e.g., a

rechargeable battery or a solar battery). As shown in FIG. 5, the electronic module 202 can comprise a housing 502, first contacts 504 and second contacts 506. The housing 502 can contain the electrical components of the electronic module 202 - e.g., a processor, memory, power source, and/or a gyroscope/accelerometer.

[0066] The first contacts 504 can provide electrical connectivity between the electrical components of the housing 502 and other portions of one or more associated electro-active lens (e.g., the first electro-active lens 104). The second contacts 506 can provide electrical connectivity to a memory of the electronic module 506. The second contacts 506 can be used, for example, to program or reprogram the electronic module 202 directly. Additional contacts (not illustrated for simplicity), or the first and/or second contacts 504 and 506, can also provide connectivity to a remote battery (e.g., the battery 302 depicted in FIG. 3 and FIG. 4) or to another electronic module or control unit. Alternative or additional contacts (e.g., an antenna) can allow wireless programming of the electronic module 202.

[0067] In general, the electronic module 202 can be positioned anywhere on the frame 102 (e.g., in any portion of the frame 102 having an area or cavity designed to accept insertion of the electronic module 202). The electronic module 202, as shown in FIG. 2, can be located near the front temple of a wide variety of frame types and styles. Specifically, the electronic module 202 can be located within a portion of a frame that is fully rimmed, partially rimmed, or rimless.

[0068] The electronic module 202 can be removed and replaced with a new module or can be reprogrammed. As an example, the electronic module 202 can be initially programmed with a first mode of operation or a first prescription for a user. At a later time, the electronic module 202 can be removed and reprogrammed using the second contacts 506 with a second mode of operation or a second prescription for a user.

[0069] FIG. 6 illustrates an electro-active lens 600 in accordance with an aspect of the present technology. The electro-active lens 600 can represent one of the electro-active lenses 104 or 106. The electro-active lens 600 is depicted as a finished lens in FIG. 6. That is, the electro-active lens 600 has been edged and grooved to fit into an eyeglass frame.

[0070] As shown in FIG. 6, the electro-active lens 600 can comprise a first substrate (e.g., a top substrate) 602 and a second substrate (e.g., a bottom substrate) 604. During an edging

process, a groove 606 can be formed (e.g., near or between the interface of the first and second substrates 602 and 604). The groove 606 can be used to position and stabilize the electro-active lens 600 within an eyeglass frame as is done with conventional lenses.

[0071] The electro-active lens 600 can comprise a first electrical lead or connector 608 and a second electrical lead or connector 610. The first and second electrical leads 608 and 610 can provide power (e.g., a drive signal or a control signal) to the electro-active region of the electro-active lens 600. In particular, the first and second electrical leads 608 and 610 can link or connect the electro-active region of the electro-active lens 600 to a power source and electronic components that can be housed within an associated eyeglass frame (e.g., the electronic module/control unit 202 depicted in FIG. 5). The first and second electrical leads 608 and 610 can comprise any conductive material including, but not limited to, silver ink. The first and second electrical leads 608 and 610 can be painted, applied or otherwise deposited onto the transparent conductive layers placed on the substrates 602 and 604.

[0072] To ensure or improve connectivity, after edging and grooving the electro-active lens 600, a small quantity of conductive material, paint or paste can be placed on top of the first and second electrical leads 608 and 610. Specifically, as shown in FIG. 6, a first conductive material 612 can be placed in the groove 606 on top of the first electrical lead 608 and a second conductive material 614 can be placed in the groove 604 on top of the second electrical lead 610. The first and second conductive materials 612 and 614 can be substantially transparent and can comprise an indium tin oxide (ITO) paste or a paint containing silver particles (e.g., silver ink).

[0073] FIG. 7 illustrates a portion of a frame 700 in accordance with an aspect of the present technology. The frame 700 can provide electrical connectivity between the electro-active lenses (not depicted in FIG. 7 for simplicity) and the electrical components used to operate electro-active lenses.

[0074] The frame 700 can include an upper portion of the right eye-wire or rim 702 and a lower portion of the right eye-wire or rim 704. For a fully rimmed frame, the lower portion 704 can extend underneath an electro-active lens to a bridge 706. For a partially-rimmed frame, the lower portion 704 generally does not extend to the bridge 706.

[0075] The frame 700 can include an electronic module 202 and an area to accept an electronic module 202. A first conductor 708 can be positioned within a groove of the upper rim portion 702. A second conductor 710 can be positioned within a groove of the lower rim portion 704. The first and second conductors 708 and 710 can comprise flexible, compressible materials. When an electro-active lens, e.g., the electro-active lens 600 depicted in FIG. 6, is positioned within the frame 700, the first and second conductors 708 and 710 can be compressed to fit in the groove of the upper and lower rim portions 708 and 710, respectively, and the groove 606 of the electro-active lens 600. The first conductor 708 can be positioned to make contact with the first conductive material 612. The second conductor 710 can be positioned to make contact with the second conductive material 614.

[0076] The frame 700 can include an upper conducting member 712, a lower conducting member 714 and an insulating or isolation member 716. The upper conducting member 712, the lower conducting member 714 and the insulating member 716 can physically couple the temple of the frame 700 to the eye-wire portion (i.e., the upper and lower rim portions 702 and 704).

[0077] The upper conducting member 712 can be one link in the electrical connectivity between the electronic module 202 and the first conductor 708. The first conductor 708 can provide connectivity to the first conductive material 612 (and, as a result, connectivity to the first electrical lead 608) depicted in FIG. 6. The lower conducting member can be one link in the connectivity between the electronic module 202 and the second conductor 710. The second conductor 710 can provide connectivity to the second conductive material 614 (and, as a result, connectivity to the second electrical lead 610) depicted in FIG. 6. The insulating member 716 can ensure that the connectivity path between the electronic module 202, the upper conducting member 712 and the first conductor 708 remains insulated or electrically separated from the connectivity path between the electronic module 202, the lower conducting member 714 and the second conductor 710.

[0078] Any portion of the upper conducting member 712 and the lower conducting member 714 can provide a conductive link. As an example, the entirety of the upper and lower conducting members 712 and 714 can be conductive (e.g., made of metal and coated with a non-conductive material) or a portion of the upper and lower conducting members 712 and 714 can be conductive (e.g., an internal portion that is encapsulated by non-conductive material).

[0079] FIG. 8 illustrates an exploded view of the frame 700 depicted in FIG. 7. As shown in FIG. 8, the frame 700 can be assembled by connecting the upper conducting member 712, the insulating member 716 and the lower conducting member 714 to the upper rim portion 702 and the lower rim portion 704. The first conductor 708 and the second conductor 710 can then be positioned in the groove of the upper rim portion 702 and the lower rim portion 704, respectively. The first and second conductors 708 and 710 can be positioned in areas where they will make contact with the first conductive material 612 and the second conductive material 614, respectively.

[0080] The components illustrated in FIG. 7 and FIG. 8 (namely, the upper conducting member 712, the lower conducting member 714, the insulating member 716, the upper rim portion 702, the lower rim portion 704, the first conductor 708 and the second conductor 710) can be used to form a portion of the frame 700 as a partially-rimmed frame or a fully-rimmed frame and to provide connectivity between an electronic module of the present technology and an electro-active lens of the present technology for each type of frame (and a variety of styles therein).

[0081] For a fully-rimmed frame, both the upper rim portion 702 and the lower rim portion 704 can extend from the upper conducting member 712 and the lower conducting member 714, respectively, to the bridge 706. For a partially-rimmed frame, generally only the upper rim portion 702 extends from the upper conducting member 712 to the bridge 706 while the lower rim portion 704 does not extend to the bridge 706.

[0082] When the frame 700 is implemented as a fully-rimmed frame or a partially-rimmed, the first conductor 708 can be of any size or length. That is, the first conductor 708 can extend along any portion of the upper rim 702 to make electrical connectivity with a desired lead of the electro-active lens 104. When the frame 700 is implemented as a fully-rimmed frame, the second conductor 710 can similarly be of any size or length to make electrical connectivity with a separate or second desired lead of the electro-active lens 104. However, when the frame 700 is implemented as a partially-rimmed frame, the second conductor 710 will be of the same length or shorter than the lower rim portion 704.

[0083] Electro-active eyewear or electronic eyewear may be exposed to moisture and liquids. Such moisture may come from the natural environment (e.g., rain, snow), from the human body

in the form of oils and perspiration, and from consumer products such as liquid lens cleaners and cosmetics. The ingress of such materials into and between the electronic components of the eyewear can cause damage, e.g., electrical short circuits. In particular, salt residue, e.g., left over from dried perspiration or exposure to salt water, salt spray, or salt fog, can facilitate even small amounts of moisture to form an unintended conductive path in electro-active eyewear.

[0084] For example, a rimlock such as the rimlocks shown in FIG. 7 and FIG. 8 may wick moisture into its internal surfaces. If this moisture is water, then the result may be a temporary electrical short circuit across the rimlock (e.g., between metal components 712 and 714), which can result in a hazy or non-functional lens. When the water dries, then normal operation is typically restored.

[0085] If the moisture is perspiration, then over time the accumulation of salts and oils due to repeated exposure can result in permanent electrical shorts and/or make the frame even more susceptible to other forms of moisture. Additionally, if the electrical path includes spring-loaded "pogo" pins, such as described in International Pat. App. No. PCT/US2010/020498, exposure to perspiration may corrode and bind such pins, resulting in an unreliable connection between the module and the rim lock.

[0086] Also, if the lens and physically compliant conductive materials are exposed to perspiration, then these materials can break down both physically and chemically. Specifically, the conductive primers and inks that are applied to the lens 104 to establish the electrical edge connections may be susceptible to perspiration and can break down over the course of a few weeks, resulting in a lens with high series resistance and a hazy on-state appearance.

[0087] Consider a type of rimlock which is assembled by attaching (e.g., welding, soldering, brazing) a piece of eyewire to one metal rimlock component that combines components 712 and 714 such as shown in FIG. 8). This assembly, forming a single electrical node, is then coated with an electrically-insulating color finish and lastly, the coated assembly is bisected (e.g., sawn, cut) to form the upper and lower eye-wire and rimlock portions. One drawback to this approach is that bisecting this assembly after coating exposes uncoated metal that, when exposed to moisture, may create an electrical short.

[0088] In some embodiments of the present technology, the rimlock is attached (e.g., welded, soldered, brazed) to the eye-wire (thus forming a single electrical node), bisected (e.g., sawn, but not necessarily in half, to form two separate electrical nodes), and then coated with electrically-insulating color finish. In such embodiments, there are no exposed metal surfaces from which to create a short circuit. Once the frame has been completely coated with finish, said finish can be removed only in the areas where electrical connections are required, e.g., at the very end of the rimlock where electrical connectivity to the module via pins such as pogo pins can occur). In some embodiments, areas in which electrical connection is required are temporarily coated with a removable layer before the finish coating is applied, and then the temporary coating, along with and finish coating directly over it, is removed. By limiting the surface of exposed metal, the risk of moisture-induced and liquid-induced electrical shorts can be reduced as well.

[0089] In some embodiments of the present technology, a water repellent material can be used to inhibit moisture and liquids from filling spaces between components of electro-active eyewear such as rimlock components. Electrically-insulating greases, such Dow Corning ® 111 valve lubricant and sealant, can be useful in this regard. Electrically-insulating grease can be applied while the frame is being assembled. A syringe equipped with a soft plastic tip can be used for application. Within the context of the rimlock shown in FIG. 8, electrically-insulating grease can be applied to the mating surfaces between the rimlock and the plastic insulating spacer, e.g., the surfaces where upper rimlock 712 mates to insulator 716, and where lower rimlock 714 mates to insulator 716. Other cavities, holes, and spaces between parts, such as those for screws and bushings used to assemble the rimlock can be filled or coated with electrically insulating grease.

[0090] FIG. 9 illustrates a portion of electro-active spectacles 900 in accordance with an aspect of the present technology. The electro-active spectacles 900 are implemented as rimless spectacles. That is, no upper or lower rim supports the electro-active lens 104.

[0091] As shown in FIG. 9, the electro-active spectacles 900 can include an electronic module 202 and an area to accept an electronic module 202. The electronic module 202 can be electrically coupled to the electro-active lens 104 using upper conducting member 902 and lower conducting member 904 (similar to upper conducting member 712 and lower conducting member 714 depicted in FIG. 7 and FIG. 8). Both the upper and lower conducting members 902 and 904 can be isolated or insulated conductors having a protected, internal conductive routes

(e.g., a conductive wire) enclosed by a nonconductive material (e.g., a plastic). Alternatively, the upper and lower conducting members 902 and 904 can entirely comprise conductive material and can be coated with non-conductive material.

[0092] The frame of the electro-active spectacles 900 can support the electro-active lens 104 using upper support member 910 and lower support member 912. As an alternative, one of the upper and lower support members 910 and 912 can be used. Both the upper and lower supporting members 910 and 912 can be positioned through holes residing in the electro-active lens 104. The frame of the electro-active spectacles 900 can also be supported by upper contact 906 and lower contact 908. Both the upper and lower contacts 906 and 908 can be positioned through holes residing in the electro-active lens 104. The upper and lower contacts 906 and 908 can be compression pin connectors having a portion that can make electrical contact with appropriate elements of the electro-active lens 104.

[0093] While simultaneously supporting the electro-active lens 104, the upper contact 906 can make electrical contact with a first electrical lead of the electro-active lens (e.g., the first electrical lead 608 depicted in FIG. 6). Similarly, the lower contact 908 can support the electro-active lens 104 while also providing electrical contact to a second electrical lead of the electro-active lens (e.g., the second electrical lead 610 depicted in FIG. 6).

[0094] Both the upper contact 906 and the upper support member 910 can form part of an arm or extension of the upper conducting member 902. The upper contact 906 and the upper support member 910 can comprise one or more conductors (e.g., a wire) insulated or contained by an insulating material (e.g., plastic). The upper contact 906 and the upper support member 910 can be positioned in front of the electro-active lens 104 (and connect through to the back of the electro-active lens 104 - as shown in FIG. 9) or can be positioned behind the electro-active lens 104 (and connect through to the front of the electro-active lens 104- not shown in FIG. 9). The lower contact 908 and the lower support member 912 can be positioned in a manner similar to the upper contact 906 and the upper support member 910 pairing (and can form part of an arm or extension of the upper conducting member 904).

[0095] FIG. 10 illustrates a front a view of electro-active spectacles 1000 in accordance with an aspect of the present technology. The electro-active spectacles 1000 are implemented as partially-rimmed spectacles. Electrical connectivity between a right side of the electro-active

spectacles (e.g., from a right-side portion of a frame 1002) to a left side of the electro-active spectacles (e.g., from a left-side portion of a frame 1004) can be provided in a variety of ways and is not limited to partially-rimmed designs. Electrical connectivity between the right-side portion 1002 and the left-hand portion 1004 can enable a single electronic module (e.g., the electronic module 202) located on either side to govern operation of both electro-active lenses 104 and 106. Further, this connectivity can ensure synchronized operation of the electro-active lenses 104 and 106 even if each of the electro-active lenses 104 and 106 is driven by separate electronic modules.

[0096] One or more conducting elements (e.g., conducting wires) can be embedded in a right-side upper frame or rim member 1006, a left-side upper frame or rim member 1008 and a bridge 1010 (as well as a left-side lower frame or rim member and a right-side lower frame or rim member for some frame designs). The conducting elements can be embedded and surrounded by insulating material. Embedding one or more conducting elements in the right side upper frame member 1006, the bridge 1010 and the left-side upper frame member 1008 can enable an electronic module on either side of the electro-active spectacles 1000 to control and/or synchronize operation of both electro-active lenses 104 and 106.

[0097] Rimless frames generally do not include the right-side upper frame member 1006 or the left-side upper frame member 1008. Rimless frames, however, do generally include a bridge 1010. Electrical connectively between the right-side portion 1002 and the left-hand portion 1004 of a rimless frame can be accomplished by using conductive elements incorporated into the manufacture of the electro-active lenses 104 and 106. Specifically, the bridge 1010 can electrically connect (e.g., using an embedded conductive link or a conductive link adjacent to or connected to the bridge) one or more conducting elements of the electro-active lenses 104 and 106 (e.g., using one or more ITO layers) which are themselves coupled to the right-side portion 1002 and the left-hand portion 1004, respectively, of a spectacles lens. Electrical connectively between the right-side portion 1002 and the left-hand portion 1004 of a rimless frame can also be accomplished by using conductive wires positioned within the grooves an electro-active lens (e.g., the groove 606 depicted in FIG. 6) to couple the right-side portion 1002 to the left-hand portion 1004. Portions of the groove on the top part of the electro-active lens or on the bottom

part of the electro-active lens can be used to house or contain one or more conductive wires. The conductive wires positioned within such a groove can be insulated.

[0098] According to an aspect of the present technology, one or more conductive wires can be embedded in the upper rim members, the bridge and/or the lower rim members of electro-active spectacles and frames of the present technology during a mold casting process. That is, when the upper rim members, the bridge and/or the lower rim members are formed using a casting process, one or more conductive wires can be cast over when the upper rim members, the bridge and/or the lower rim members are prepared. Generally, thicker conductive wires can be used during such a process. Nylon is an example material that can be used to mold over one or more conductive wires to from the upper rim members, the bridge and/or the lower rim members.

[0099] According to an aspect of the present technology, one or more conductive wires can be embedded in the upper rim members, the bridge and/or the lower rim members of electro-active spectacles and frames of the present technology as each frame component is assembled. More specifically, any of the upper rim members, the bridge and/or the lower rim members that will be used to embed one or more conductive wires can be fabricated by two or more individual or separate pieces. For example, the upper rim members can be formed from two substantially symmetrical pieces of substantially the same shape - a front piece and a back piece which individually may appear to be a portion of the upper rim member split in half lengthwise. Prior to assembling the front and back pieces to form a complete upper rim member, one or more wires can be embedded (e.g., in a groove formed by mold or machined into the front and/or back pieces) between the front and back pieces (i.e., at the interface between the front and back pieces). The front and back pieces used to form the complete upper rim member can subsequently be combined, for example, using an adhesive.

[00100] According to an aspect of the present technology, one or more conductive wires can be embedded in the upper rim members, the bridge and/or the lower rim members of electro-active spectacles and frames of the present technology after the frame is assembled. Specifically, one or more grooves can be machined into the upper rim members, the bridge and/or the lower rim members that can be used to contain one or more conductive wires. The machined grooves can then be filled or covered with material to cosmetically hide the conductive wires. The assembled frame can then be polished to hide or mask the area in which the wires are embedded. Acetate is

an example material that can be manipulated in this fashion to embed one or more conductive wires.

[00101] In Fig. 11, all of the frame and hinge components have been removed showing only parts of a frame 1100 including electronic module 1102, flexible conductors 1104 and 1106, and physically compliant conductive materials 708 and 710. In this embodiment flexible conductors 1104 and 1106 are permanently attached to electronic module 1102 and nearly all electrically conductive portions are coated or enclosed within electrically insulating materials. The only electrically conductive portion exposed is the connection between the ends of the flexible conductors 1104 and 1106 and the physically compliant conductive materials 708 and 710, which is required to make electrical connection to the lens. The benefits of this embodiment are that the conduction of electrical signals is separate (physically and electrically) from the lens mounting and temple hinge components and that nearly all of the electrically conductive surfaces are insulted from environmental moisture and other liquids. Furthermore, such a design does not require that the frame (or frame components) be constructed from conductive materials (e.g. metal), thus further reducing the risk for electrical shorts.

[00102] FIG. 11 illustrates a portion of a right side of frame 1100, such as frame portion 700 of electro-active spectacles in accordance with an aspect of the present technology. The portion of the right side of a frame 1100 depicted in FIG. 11 can be coupled to an electro-active lens (not depicted in FIG. 11 for simplicity) through first conductor 708 and second conductor 710 as described in connection with FIG. 7. An electronics module 1102, similar to electronics module 202, is shown. The electronics module 202 can be coupled to the first conductor 708 through first conductive link 1104. The electronics module 1102 can further be coupled to the second conductor 710 through a second conductive link 1106.

[00103] The connection between each of links 1104, 1106, and electronics within module 1102 can be direct and sealed at the entrance to the module, or insulated leads (themselves sealed at entrance to the module 1102) can protrude from the module (not shown). The module 1102 itself can be sealed and potted so as to inhibit undesirable effects of liquid and moisture on the electronics therein.

[00104] The first and second link conductors 1104 and 1106 can be shaped and constructed to tolerate bending of other frame members (not depicted in FIG. 11 for simplicity) when the

electro-active spectacles are opened and closed. The first and second link conductors 1104 and 1106 can contain one or more conducting elements (e.g., conducting wires) and can enclose them with insulating or non-conductive material or can themselves be entirely conductive. The links 1104, 1106 can be contained in a flexible conductive cable 1108, as shown with respect to a portion 1500 of the right side of a frame in FIG. 14.

[00105] In embodiments the electronic module which is located within or on the temple of the electronic eyeglass frame comprises a flexible conductive cable, such as cable 1108, which connects the electronics within the electronic module. This flexible conductive cable can be connected directly to the electronics within the electronic module (in which case the one end of the flexible conductive cable) is sealed within the electronic module or it can be connected directly by way of two insulated leads that protrude from the end of the electronic module. In either event, the flexible electronic cable may provide a constant and flexible electrical connection to the electronics housed within the electronic module. It should be pointed out that the electronic module is sealed, potted and is largely moisture proof.

[00106] The flexible conductive cable can be of a length that begins within the electronic module and exits the temple either on the side of the temple or on the front end piece of the temple closest to the hinge of the temple and then bypasses the hinge connection between the temple and the frame front, and proceeds to plug into the back side of the frame front closest to the wearer. The flexible conductive cable can also be made to begin with the two conductive compressible members (by way of example only, conductive rubber) and then proceeds once again to bypass the hinge connecting the temple to the frame front and then on thru the back of the frame's front into the side or front end of the temple connecting to the module. The flexible cable can also connect by way of being incorporating thru the insulation of the bridge between the upper and lower rimlock or the flexible conductive cable can be designed as it passes between the upper and lower rimlocks to become the insulator that separates the upper and lower rimlock from one another.

[00107] In some embodiments the flexible conductive cable may be directly connected to two conductive contact points located within the rim of the eyeglass frame, on the lens surface, connected to the lens or frame surface. In other embodiments the flexible conductive cable may connect indirectly by connecting with contact points located within the rim of the eyeglass frame

or on the lens surface. When connected indirectly the flexible conductive cable may connect to an intermediate conductive path by way of a moisture resistant connection or connections.

[00108] These two conductive contact points may be made of a compressible conductive material; by way of example only, conductive rubber. The flexible conductive cable provides a completely sealed and moisture proof barrier from the sealed electronic module to that of the two conductive contact points (which are spatially removed and / or insulated from one another) which make electrical contact to that of the lens or a display located on or in the lens. The conductive cable being flexible allows for the cable to be flexed or bent as the temple of the eyeglasses or eyewear is being opened and shut. Also the flexible conductive cable allows for in certain frame designs or styles the flexible conductive cable to be threaded or inserted thru certain frame members still allowing for a completely sealed connection from the electronic module to that of the electronic connection points within the frame's eye wire or rim.

[00109] In some embodiments, the flexible conductive cable may be directly or indirectly connected in a similar manner to two conductive contact points on or connected to an electronic display and or controller, affixed to the eyeglass frame front, or the lens, or housed within the eyeglass frame front or the lens.

[00110]

[00111] In some embodiments, such as those involving a video display, first conductor 708 and second conductor 710 can be connected to the display. In various embodiments, conductors 1104 and 1106 can be semi-rigid or rigid for at least some of their length. The first and second link conductors 1104 and 1106 can be considered to be continuous conductive links since they provide an uninterruptable physical connection between the module 1102 and the conductive elements of the electro-active lenses, e.g., 612, 614 via conductive elements 708 and 710.

[00112] Referring to FIGS. 12A and 12B, another aspect of the present technology for reducing the risk of liquid/moisture damage to electro-active eyewear is illustrated. As described above with reference to FIG. 6, physically compliant conductive material, e.g., 612, 614, can be used along a portion of the edge of lens, e.g., 600. In some embodiments insulating materials can be used along the remainder of the lens edge. In such an approach, moisture, oils, and salt may accumulate, and over time degrade the connections. In some embodiments of the present

technology, a gasket, e.g., 1200 of compliant, but electrically insulating material, e.g., silicone, can be used to create a more compliant, and liquid/moisture-resistant fit for the lens around its edge. In some embodiments, the gasket 1200 can stretch around the circumference of the lens, resisting the ingress of moisture, oils, salt, and liquids. To enable electrical connectivity to the lens, apertures 1202 can be provided that accommodate physically compliant conductive material, e.g., 612, 614, formed to mate with the gasket.

[00113] FIG. 12B shows sectional views including portions of the gasket without the physically compliant conductive material 614 (upper view), and with the physically compliant conductive material 614 (lower view).

[00114] FIG. 13 illustrates a representative block diagram of electro-active spectacles 1300 in accordance with an aspect of the present technology. The electro-active spectacles 1300 can represent the electro-active spectacles of the present technology described above (e.g., the electro-active spectacles 100). The electro-active spectacles 1300 can include a right electro-active lens 1302 and a left electro-active lens 1304. The right and left electro-active lenses 1302 and 1304 can represent the first and second electro-active lenses 104 and 106 described earlier. The electro-active spectacles 1300 can include a right control unit 1306 and a left control unit 1308. The left and right control units 1306 and 1308 can each represent an electronic module 202, or a portion thereof, described above.

[00115] The right control unit 1306 can include an isolation switch 1310, driver circuits 1312, and transmitter circuits 1314. The driver circuits 1312 can generate a driver signal for operating (e.g., activating) the right electro-active lens 1302. For example, to activate the right electro-active lens 1302, the driver circuits 1312 can provide, generate or transmit a driver signal or activation signal. Further, to deactivate the right electro-active lens 1302, the driver circuits 1312 can simply stop providing, generating or transmitting the driver signal.

[00116] The transmitter circuits 1314 can generate a synchronization signal for coordinating operation of the right and left electro-active lenses 1302 and 1304. Specifically, the transmitter circuits 1314 can transmit a synchronization signal instructing the left electro-active lens 1304 to activate or deactivate. As an example, the left electro-active lens 1304 can be activated based on receipt of the synchronization signal or a synchronization signal of a first type instructing activation. Further, the left electro-active lens can be deactivated based on the absence of the

synchronization signal or receipt of a synchronization signal of a second type instructing deactivation. As a result, the right and left electro-active lenses 1302 and 1304 can be activated and deactivated at substantially the same time.

[00117] The isolation switch 1310 can determine when the driver circuits 1312 and the transmitter circuits 1314 can access a conductive link 1316 coupling the right electro-active lens 1302 to the control unit 1306. The conductive link 1316 can comprise one or more conductive wires. The conductive link 1316 can represent one or more of the connectivity mechanisms depicted and described above (e.g., the routing and connectivity features illustrated in FIG. 11 and described above).

[00118] When the electro-active spectacles are implemented with only a single control unit (e.g., the control unit 1306), then the control unit 1306 can control operation of both the right and the left electro-active lenses 1302 and 1304. Under such a scenario, the isolation switch 1310 and transmitter circuits 1314 can be optional. Further, the left and right electro-active lenses 1302 and 1304 can be activated at substantially the same time by a driver signal provided by the driver circuits 1312.

[00119] A communications link between the right and left control units 1306 and 1308 can comprise any portion of the conducive link 1316, conductive elements within the right electro-active lens 1302, a bridge conductive link 1318 contained within or adjacent to a bridge of the electro-active spectacles 1300, conductive elements within the left electro-active lens 1304, and a conductive link 1320. The conductive link 1320 can comprise one or more conductive wires and can represent one or more of the connectivity mechanism depicted and described above (e.g., the routing and connectivity features illustrated in FIG. 11 and FIG. 12 and described above). The communications link between the right and left control units 1306 and 1308 can also include or alternatively include a frame conductive link 1222 (shown in phantom in FIG. 13).

[00120] The frame conductive link 1322 can include one or more conductive wires wrapped over the right and left electro-active lens 1302 and 1304- e.g., either embedded within a portion of the frame and/or contained in a groove of the right and left electro-active lenses 1302 and 1304 as described above. The frame conductive link 1322 can also include conductive elements of the right and left electro-active lenses 1302 and 1304 (e.g., one or more layers of ITO or other transparent conductive layers of the right and left electro-active lenses 1302 and 1304). For

example, the frame conductive link 1322 can be a wireless link that uses conductive layers of the right and left electro-active lenses 1302 and 1304 as antennas to facilitate communication and/or synchronization between the right and left electro-active lenses 1302 and 1304. Alternatively, other conductive elements can be embedded within the electro-active spectacles of the present technology to facilitate communication and/or synchronization between the right and left electro-active lenses 1302 and 1304. One or more of these embedded antennas could also provide a wireless communication link between the electro-active spectacles of the present technology and a remote communication device.

[00121] Overall, the right control unit 1306 can communicate with the left control unit 1308 and/or can operate the left electro-active lens 1304 using a single conductive wire or link. The single conductive wire can also be used to operate the right electro-active lens 1302. The single conductive wire or link can be embedded within a portion of a frame and can include conductive elements of the electro-active lenses.

[00122] The left control unit 1308 can include an isolation switch 1324, driver circuits 1326, and receiver circuits 1328. The driver circuits 1326 can generate a driver signal for operating (e.g., activating) the left electro-active lens 1302. The receiver circuits 1326 can receive and process a synchronization signal transmitted by the right electro-active module 1306. The isolation switch 1324 can determine when the driver circuits 1312 and the receiver circuits 1328 can access the conductive link 1320 coupling the left electro-active lens 1304 to the control unit 1308.

[00123] The receiver circuits 1326 can listen for a synchronization signal transmitted over conductive link 1320. The receiver circuits 1326 can listen periodically or randomly for a specific or random amount of time. Once a synchronization signal is received, the control unit 1308 can operate accordingly- i.e., either activate or deactivate the left electro-active lens 1304 using a driver signal transmitted by the driver circuits 1328.

[00124] The transmitter circuits 1314 can transmit a synchronization signal in response to detection of a head tilt change of the user (e.g., detected by a gyroscope or accelerometer included in the right control unit 1306 – not illustrated for clarity) or manual command issued by the user. The synchronization signal transmitted by the transmitter circuits 1314 can be coded to distinguish it from noise and to prevent false triggering.

[00125] In FIG. 14, all of the frame and hinge components have been removed showing only parts of a frame 1500 including electronic module 202, flexible conductors 1104 and 1106, physically compliant conductive materials 708 and 710, and flexible cable 1108. In this embodiment, the flexible cable 1108 has one end sealed within the module 202. This sealing is substantially water-resistant or water-proof. The other end of cable 1108 may terminate in a plug (not shown) that mates with a receptacle on the backside of the eyewear frame front (or on an edge of the frame front, or on one of the end pieces of the frame front) whereby connection is provide to the lens. In other embodiments, the plug and receptacle can be reversed.

[00126] FIG. 15 illustrates a portion 1600 of the right side of the frame showing the module 202, flexible cable 1108, first conductor 708, second conductor 710, rim wire lower portion 704, lower rimlock 1610, and insulating layer 1620, with the flexible cable 1108 bypassing the hinge elements formed in the insulating layer to the right and around to the front of the eyewear. Flexible conductive links 1104 and 1106 can be used in place of flexible cable 1108. In embodiments of the present technology, such as those illustrated in each of FIG. 11 and FIG. 14, the conductive links 1104, 1106, and the cable 1108, can be of length that begins with the electronic module 200 and exits the temple either on the side of the temple to the front end piece of the temple closest to the hinge of the temple, and then bypasses the hinge connection between the temple and the frame front, and enters the frame front.

[00127] FIG. 16 illustrates electro-active frame 1700 in accordance with an aspect of the present technology. Electro-active lenses can be mounted within the electro-active frame 1700. For simplicity, a portion of electronics 1702 that can be used to govern operation of the electro-active lenses are shown. The electronics 1702 can represent a portion of an electronic module 202 described above and/or can represent conductive elements positioned to provide electrical connectivity between a temple of the electro-active frame 1700 and a front portion of the electro-active frame 1700. The electro-active frame 1700 is shown as including electronics 1702 on only one side of the electro-frame 1700 but is not so limited.

[00128] As further shown in FIG. 16, the electro-active frame 1700 can include conductive leads 1704 and 1706 and conductive link 1708. Conductive link 1708 can provide electrical connectivity from one side of the electro-active frame 1700 to the other side of the electro-active frame 1700. Conductive leads 1704 can provide electrical connectivity between electronics 1702

and a first electro-active lens mounted within the electro-active frame 1700. Conductive leads 1706 can provide electrical connectivity between the conductive link 1708 and a second electro-active lens mounted within the electro-active frame 1700.

[00129] As shown in FIG. 16, the conductive link 1708 can be embedded or positioned within the electro-active frame 1700. The conductive link 1708 can include any number of conductive elements (e.g., wires) that can be insulated or not insulated. If the electro-active frame 1700 uses driver electronics on each side of the frame 1700 (e.g., a master and slave driver electronics or electronic modules 202) then as few as only one single wire can comprise the conductive link 1708). If the electro-active frame 1700 has driver electronics on only one side of the electro-active frame 1700, then at least two wires or conductive elements can be used. The conductive link 1708 can be positioned inside the electro-active frame 1700 in accordance with any of the methods described above for embedding conductive links including, but not limited to, (1) embedding during a mold casting process; (2) embedding during an assembly process of the front frame portion of the electro-active frames 1700; and (3) embedding after assembly of the electro-active frames by providing a groove or route for the conductive link 1708. The conductive link 1708 can also use or can alternatively comprise the conductive layers of the electro-active lenses of the present technology that can be positioned into the frames 1700 as described above.

[00130] FIG. 17 illustrates electro-active spectacles 1800 in accordance with an aspect of the present technology. The electro-active spectacles 1800 can include an electronic module 202. The electro-active spectacles 1800 can also include conductive link 1802. Conductive link 1802 can include any number of conductive elements (e.g., wires) that can be insulated or not insulated. Conductive link 1802 can provide electrical connectivity between the electronic module 202 and the electro-active lens 104 and the electro-active lens 106.

[00131] As shown in FIG. 17, a portion of the conductive link 1802 can be positioned or embedded within a portion of the frame of the electro-active spectacles 1800. For rimless spectacles, the conductive link 1802 can be routed through a groove in an electro-active lens (e.g., the groove 606 depicted in FIG. 6). As further shown in FIG. 17, the conductive link 1802 can be routed adjacent to a bridge 1804 of the electro-active spectacles 1800. For example, the conductive link can be routed through tubing 1806 that is positioned adjacent to the bridge 1804.

[00132] Referring to FIG. 18, embodiments of the present technology using plug/receptacle connections are illustrated in the context of electro-active eyewear 1900. In some of those embodiments, the electrical module 202 has connector leads, e.g., 1108 that have one end sealed within the module 202. This sealing is substantially water-resistant or water-proof. The other end of cable 1108 terminates in a plug 1910 that mates with a receptacle (not shown) on the backside of the eyewear frame front (or on an edge of the frame front, or on one of the end pieces of the frame front) whereby connection is provide to the lens. In other embodiments, the plug and receptacle can be reversed. A plug/receptacle connection 1930 also can be used to connect the module 202 with a battery 302. The plug/receptacle connections can be unpluggable or permanent once plugged. In some embodiments, the intermediate electrical contact is located at one of: a rim of the eyewear, the rear 1/3 of the temple, the middle of the temple, the forward 1/3 of the temple, the rim lock or hinge, of the eyewear, a surface of the optical functional member, a frame front of the eyewear, an electronic display, an electronic controller, and between the rim and the lens of the eyewear.

[00133] Referring to FIG. 19, the portion 1100 shown in FIG. 11 is shown as a portion 2000 from another perspective with the body of the temple 2010. The module 202 is shown inside the body of the temple 2010, the conductive links 1104 and 1106 are shown connecting to upper portion first conductor 708 and lower portion second conductor 710 respectively after being routed around a non-conducting upper rimlock 2012 and lower rimlock 2014. Embodiments of the present technology similar to that illustrated in FIG. 19 can use a cable, e.g., 1108, instead of separate conductors 1104, 1006.

[00134] In some embodiments, links 1104, 1106 and cable 1108 can be made from conductive compressible members. Conductive compressible members can include conductive rubber and metal rubber. Metal rubber is a name for conductive plastic polymers with metal ions, it is a self-assembling nano-composite, and is flexible and durable across a broad range of pressures, temperatures, tensions, exposure to chemicals. It retains its properties upon being returned to a ground state. It can carry data and electrical power.

[00135] In some embodiments, the flexible conductive cable itself can be an insulating element between the upper rimlock and the lower rimlock. In some embodiments, first conductor 708 and second conductor 710 are not used, and the conductive links 1104, 1106 (either as separate links

or as elements of cable 1108) connect directly to the leads and conductive material (e.g., 608/612 and 610/614, respectively) of the electro-active lens (e.g., electro-active lens 600).

[00136] In some embodiments, the conductive links 1104, 1106 (either as separate links or as elements of cable 1108) are connected to contact point located within the rim of the eyeglass frame, on the lens surface, connected to the lens or frame surface. In other embodiments of the technology, the conductive links 1104, 1106 (either as separate links or as elements of cable 1108) are connected to contact points on or connected to an electronic display or controller, affixed to the eyeglass frame front or the lens, or housed within the eyeglass frame front or lens. In various embodiments, the conductive links 1104, 1106 (either as separate links or as elements of cable 1108) can be conductive sealed wires.

[00137] It is noted that the connectivity mechanisms illustrated in FIG. 11, and described above, can be used for any type of frame style - that is, for fully rimmed, partially-rimmed and rimless frames of the present technology.

[00138] Referring to FIG. 20, a portion 2100 of electro-active eyewear in accordance with the present technology is shown. Module 202 is shown connected to conductive links 1104 and 1106 as described in connection with FIG. 11, but using upper rimlock 712 and lower rimlock 714 as conducting members connect to links 1104 and 1006 respectively. Insulating layer 716 is shown disposed between upper rimlock 712 and lower rimlock 714. A cable, e.g., 1108 can be used in place of conductive links 1104 and 1106.

[00139] Referring to FIG. 21, electro-active eyewear 2110 in accordance with the present technology is shown. Module 2116 is shown in temple portion 2114 and connected via conductor 2112 to a battery 2117 in the distal end of the frame. Flexible conductive cables are also provided between the temple portion 2114 and conductive material of the front portion of the frame.

[00140] In some embodiments, a device may be provided including a lens comprising at least a first electrical contact, a lens housing holding the lens, where the lens housing comprises at least a second electrical contact, and a conductive element disposed between the first and the second electrical contact, wherein the conductive element electrically connects the first and second electrical contacts. The first device may further comprise a barrier layer that is disposed so as to

cover at least a portion of the conductive material. The "barrier layer" may be disposed so as to cover the conductor (or a portion thereof) at or near the periphery of the lens such that it may not be exposed to the external the location between the electro-active lenses and the lens housing typically tends to be where the conductors are exposed to the external environment. The barrier layer may be moisture resistant, such that it may prevent moisture from contacting the electrical connections. In some embodiments, the barrier layer of moisture resistant material may comprise a polymer substance.

[00141] In some embodiments, the barrier layer may be applied or disposed in areas of the electronic spectacles between two components (such as between the lens housing and the electro-active lenses). In some embodiments, these components of the electronic spectacles may be coupled in advance, and the barrier layer may be applied in a later process (e.g. as part of a finishing or sealing process after the electrical connections have been formed). This may be preferred because, for instance, the barrier layer may function to prevent the electrical connection at the interface between the components from being exposed to the external environment. Thus, in some embodiments, once the barrier layer is set, access to this interface may be limited. However, embodiments are not so limited, and the barrier layer may be applied at any suitable time.

[00142] The inventors have found that in some embodiments it may be preferred that the barrier layer may comprise a material that has a viscosity that is thin enough such that it may be applied or injected into the areas between the components of the electronic spectacles. As noted above, in some embodiments the barrier layer may be applied to prevent or limit contact with moisture (e. g. water) and, therefore, it may be preferred that the viscosity of the barrier layer material be comparable to water. In this manner, the barrier layer may be applied to (and thereby disposed in) the same areas that would otherwise be accessible to this moisture. In some embodiments, where the barrier layer may comprise a polymer material (such as a two component epoxy), after the barrier layer has been applied to the electronic spectacles, it may be cured to set the material in place. In general, the barrier layer may be cured using any suitable process, such as visible light curing, ultra-violet curing, and/or thermal curing. In some embodiments, where thermal curing is used, the material of the barrier layer may be chosen such that it may be cured at a low

enough temperature that the other components of the electronic spectacles (e.g. the lenses, lens housing, and/or electronics) are not affected by the increase in temperature.

[00143] The inventors have also found that, in some embodiments, it may be preferred that the material that comprises the barrier layer be flexible and/or soft enough such that it does not damage (or damage other components, such as the lens) when experiencing the typical forces of daily use. For instance, when the barrier layer is disposed in the area between the lens housing and the lens component, there may be forces applied to either one of, or both of these components in various directions. If the barrier layer is too rigid, this force may be applied to the lens, which could cause chipping or cracking. This may result, for example, in exposure of the electrical contacts, damage to the lens, and/or one or more components could be decoupled.

[00144] An exemplary embodiment that comprises a barrier layer applied to electronic spectacles so as to prevent or limit exposure of the electrical contacts between a lens and a lens housing to the outside environment (including to moisture) is shown in FIG. 22. The electronic spectacles comprise a lens housing 2201, a conductor 2202 (in this case, shown as a compliant conductive material), conductive paint 2203 that forms a part of an electrical path to one or more electrical components of the lens 2204, and a barrier layer 2205. As shown in FIG. 22, in some instances a space or area may exist between the lens housing 2201 and the lens 2204 shown as air gap 2206. As noted above, this may be created during the manufacturing process (e.g. the lens housing 2201 and a portion of the lens 2204 do not fit tightly so as to seal the components there between from exposure to the outside environment) and/or may develop through use of the spectacles. On the opposite side of the air gap 2206 shown in FIG. 22 is a barrier layer 2205 that has been disposed so as to insulate the conductor 2202 from the external environment. The barrier layer 2205 is shown as disposed within the area between the lens housing 2201 and the lens 2204. As noted above, the barrier layer 2205 could have been injected into this region between these components, and may have been cured thereto so as to be coupled to the lens housing 2201 and/or the electro-active lens 2204.

[00145] FIGS. 23A and 23B illustrate further embodiments of the present invention. The electronic module 2300 shown in FIG. 23A includes a flex circuit 2310 with two conductive buses 2320 and 2330 for making electrical contact to the front surface of an electro-active lens. The module includes a drive circuit 2340 placed above a rechargeable battery 2350. Below the

battery is a recharging coil 2360. The charging coil is used to inductively recharge the battery without direct contact. In this way, the module may be hermetically sealed while still allowing the battery to be recharged without breaking a moisture resistant seal. A tilt sensor 1070 is also attached to the electronic module. A manual switch 1080 is attached to the top of the electronic module and is integrated with a sealing diaphragm 1090. This module is sealed with an epoxy, silicone, or similar water resistant material to prevent water from contacting the electronic components. This module is shaped to fit into a universal frame electronic component as illustrated in FIG. 23B.

[00146] FIG. 23B shows a universal electronic frame component 2301. The universal electronic frame component comprising a housing 2311 for holding the electronic module described in Figure 23A. A set of thread hinge bolt 2321 and 2331 are mounted on the housing 2311 for accommodating a wide variety of frame stem styles to be attached to the universal electronic frame component. The top of the housing 2311 has an aperture to allow a manual switch 2341 to extend outward so as to be accessed by the wearer. Extending out of an opening in the housing are two electrical contacts 2351 and 2361 from the buses described in Figure 23A. Near these contact points, there is a through hole 2371 to allow a mounting pin to pass through the front of the universal electronic frame component for attaching to an electro-active lens.

[00147] A module 2400, as illustrated schematically Figure 24A and in cross section in Figure 24B, contains a battery 2430 for powering an electro-active lens and related drive circuitry, a printed circuit board 2420 with drive and control electronics, and a switch 2410. The module may also contain a membrane switch to allow for manual control of the electro-active lens. Figure 24C illustrates the module 2400 placed in an eyeglass frame 2450. The frame has a frame stem section 2440 near the front of the frame but also well in front of a frame hinge 2460 that connects a stem 2480 to the front of the frame. The module is preferably placed behind the frame stem section, provided that the frame is not of a full rimless design. In the event of a full rimless design, the inventive electronic module or modules would fit within or near the space (right spatial void and left spatial void) anterior to the hinge and would then attach to the lens. In certain other inventive embodiments where there is no hinge (hinge-less temples) and eyeglass frames that have a continuous temple that attaches directly to the frame front or directly to the

lens, the module would preferably be located within or near the space (right spatial void and left spatial void). In fact, the module can be located anywhere within these two spatial voids.

[00148] The module may further include one or more of the following: a manual switch (for example, a touch button, photo-detector, motion detector, capacitive touch sensor), a controller and/or micro-processor, a power source (for example, a small battery), a sensor (for example, one or more miniature or micro tilt switches, accelerometer, micro gyro, range finder, view detector, imager), an antenna, a transmitter, a transceiver or a receiver. The module preferably houses any of the aforementioned electrical components in a substantially water-proof and wear resistant/moisture resistant environment and is preferably hermetically sealed. In the event of a malfunction of one or more of the electronic components housed within the module, the module can be replaced without having to repurchase a complete pair of new electronic eyewear (lenses and frames) or just the frames. It should be pointed out that in certain applications, a single inventive electronic module may be sufficient, and in others, two or more modules may be needed. The embodiments described in FIGS. 23 and 24 allow for modification of any number of existing frames that otherwise were not originally designed to support electronics for driving electro-active lenses.

[00149] In general, the inventors have found that in some embodiments, any surface or substrate may be utilized to dispose the electronic components thereon prior to insertion into a partial enclosure. However, it may be preferred (such as when a touch switch is utilized as a sensor for the electronic eyewear) that the electronic components be disposed on a surface of the touch switch. As used in this context, a "touch switch" may refer to a type of switch that may be touched by an object to operate (or an object may come into close proximity to the switch). For embodiments comprising electronic eyewear, it may be preferred that a capacitive touch switch is used because such switches may be moisture resistant, which the inventors have found is advantageous given the typical exposure to, for example, perspiration from the wearer, environmental moisture (e.g. humidity, precipitation), moisture from the wearer's finger, etc .. A "capacitive touch switch" may refer to any sensor that may utilize an electrical field to detect, for instance, the presence of a human finger or other conducting object to activate a switch. For example, when a conductive object enters the field (e.g. comes into contact with, or in close proximity to, the device), the switch recognizes a change in the capacitance indicating an

actuation. This may enable capacitive switches to be "sealed" (i.e. there may not need to be any physical interaction with the sensing components) such that, as noted above, the switches and components thereof need not be exposed to external conditions (e.g. moisture).

[00150] Additional steps may also be performed as well in some embodiments. For instance, some embodiments include the step of depositing a conformal layer (e.g. an encasing or encapsulating layer) over the electronic assembly (i.e. comprising the capacitive touch switch and the electronic components disposed thereon) using a film or other protective material layer. This conformal layer may be utilized to seal the electronic components (and particularly the electrical connections between the electronic components) to protect them from damage, particularly external environmental damage. Thus, the conformal layer may generally be moisture proof in some embodiments. However, the entire assembly may not be covered by the conformal layer in some embodiments because one or more electrical connections may be needed to, for instance, electrically couple the electronic components in the electronics module to other electronic components on the electronic eyewear. Thus, during the deposition of the conformal layer (e.g. the encasing or encapsulation process) a mask may be disposed over the electrical contacts that will be used to make such connections. In some embodiments, rather than using a mask, the entire assembly may be encased or encapsulated, and the conformal layer may be selectively removed from portions of the assembly (e.g. portions of the layer that cover the electrical contacts) to expose the electrical contacts and allow one or more connections to be made. The electronic assembly may then be inserted into a partial enclosure (e.g. an electronics module outer casing) and then disposed within the cavity of a temple of the electronic eyewear.

[00151] In some embodiments, the first method may further comprise the step of applying a conformal coating to the plurality of electronic components. As used in this context, a "conformal coating" may refer to any coating that is designed to substantially protect or enclose the electrical connections of the plurality of electronic components (and/or the components themselves) that are disposed on the capacitive touch switch. The conformal coating may also protect portions of the capacitive touch switch as well. The conformal coating may be configured to prevent short circuits, foreign materials, atmospheric conditions (such as moisture) or any other external forces from affecting the electrical connections or damaging the electronic components. In this regard, the coating may generally be moisture proof or resistant. The conformal coating may

have any suitable thickness, but is typically less than 1 mm thick, and more preferably less than .5 mm thick. The coating may comprise any suitable material, such as a brushed, spray or dip applied acrylic, urethane, silicone, or epoxy. It should be noted that components that are intended to form one or more electrical connections with an external component(s) may be masked during the deposition/application process of the conformal coating (or the coating may be later removed) so as to expose the electrical contacts of these components.

[00152] FIG. 25 is a flow chart that illustrates exemplary steps that may be performed in accordance with some methods provided herein. For example, at step 2501 a capacitive touch switch may be provided. The capacitive touch switch may serve as the platform or "back bone" on which some of the electronic components of an electronics module or electronic eyewear may be disposed. Next, at step 2502, one or more electronic components may be disposed on a surface of the capacitive touch switch. For instance, electrical connectors may be disposed on the surface (e.g. using reflow soldering). However, embodiments are not so limited, and the components may be coupled to the surface of the capacitive touch switch in any suitable manner. In step 2503, one or more electrical connections may be formed between the capacitive touch switch and the electronic components that were coupled to the capacitive touch switch in step 2502. In some embodiments, the electrical connections may be formed simultaneously with step 2502, such as when reflow soldering is used; however, embodiments are not so limited.

[00153] Continuing with reference to FIG. 25, at step 2504 one or more electronic components may be coupled to the one or more of the electronic components that were previously disposed on the capacitive touch switch in step 2502. For instance, electrical connectors coupled to a PCB may be coupled to one or more electrical connectors that may have been reflow soldered to the capacitive touch switch. In this manner, an electronic assembly may be created, wherein each additional electronic component may connect to another electronic component or components. Each of these additional electronic components may be considered to be disposed on the capacitive touch switch, as used in this context. At step 2505, one or more electrical connections may be formed, to the extent that this was not performed during step 2504.

[00154] In some embodiments, at step 2506, a conformal layer (e.g. an encasing or encapsulating layer) may be deposited over some or all of the electronic assembly that is now disposed on the capacitive touch switch. The conformal layer may be used to seal and protect the

electrical connections that were formed in steps 2503 and/or 2505, as well as to protect the electronic components themselves (such as from moisture, which could damage or affect device performance). As described above, to the extent electrical contacts may be required so as to form electrical connections with other components that are not part of the electronic assembly disposed on the capacitive touch switch, these electrical contacts may be masked during the deposition process of the conformal layer, or the conformal (i.e. encapsulation) material may be subsequently removed to expose the electrical contacts. It should be noted that while it may be preferred in some embodiments to include a conformal layer, embodiments are not so limited. In some embodiments, the conformal layer may have a thickness that is less than 1 mm in thickness (preferably less than .5 mm).

[00155] At step 2507, the capacitive touch switch (which comprises the assembly of electronic components that were disposed thereon in steps 2502 and 2504) may be coupled to an enclosure. As described above, the enclosure may comprise the outer casing of an electronics module or the cavity of a temple of electronic eyewear. The step of coupling the capacitive touch switch to the enclosure may comprise any suitable method, including pressure fitting the two components (if they are designed and configured to have the structural interface to do so). The enclosure may provide protection for the electronic components from external forces, but need not necessarily support the components because they may be supported by the capacitive touch switch. As noted above, the capacitive touch switch, or at least a portion thereof, may comprise a material that may be firm enough to substantially maintain its shape and structure, even with the electronic components disposed thereon. Finally, at step 2509, one or more electrical connections may be formed between the components disposed on the capacitive touch switch (e.g. that may now be disposed within an electronics module) and one or more electronic components disposed on the electronic eyewear.

[00156] While various embodiments of the present technology have been described above, it should be understood that they have been presented by way of example and not limitation. Any conductive element described above (e.g., the upper or lower portions of the frame) can be entirely conductive (and possibly coated with non-conductive material) or can contain an embedded or buried conductive element (e.g., a conductive core) and a non-conductive outer or surrounding layer. Further, any conductive link - e.g., described or referred to as an electrical

wire or connection - could alternatively, or in addition thereto, be or include an optical conductive link as will be apparent to one skilled in the pertinent art. The exemplary techniques for coupling or connecting the electrical elements of the electro-active spectacles of the present technology (e.g., the controlling electronics and power supplies and electro-active lenses) using embedded conductive links can be used to embed one or more conductive optical links (e.g., one or more optical fibers) as will be apparent to one skilled in the pertinent art.

[00157] These applications can be that of, by way of example only, by way of example only, electronic focusing eyeglasses, electro-active eyeglasses, fluid lenses being activated by way of an electronic actuator, mechanical or membrane lenses being activated by way of electronics, electro-chromic lenses, electronic fast tint changing liquid crystal lenses, lenses whose tint can be altered electronically, lenses that by way of an electrical charge can resist or reduce the attraction of dust particles, lenses or eyeglass frames housing or having an electronic display affixed thereto, electronic eyewear providing virtual reality, electronic eyewear providing 3-D capabilities, electronic eyewear providing gaming, and electronic eyewear providing augmented reality.

[00158] Overall, it will be apparent to one skilled in the pertinent art that various changes in form and detail can be made therein without departing from the spirit and scope of the technology. Therefore, the present technology should only be defined in accordance with the following claims and their equivalents.

CLAIMS

We claim:

1. An eyewear system comprising:

an electronics module comprising electronics for controlling an electrical functional member; and

at least one electrical connective element configured to connect the electronics of the electronics module and the electrical functional member,

wherein, at least one of the electrical connective element and the electronics module is sealed.

2. The eyewear system of claim 1:

further comprising at least one intermediate electrical contact,

wherein:

the electrical functional member comprises at least one electrical connector, and

the connective element connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member through the at least one intermediate electrical contact.

3. The eyewear system of claim 1, wherein the eyewear system is an eyewear frame.

4. The eyewear system of claim 1, wherein the eyewear system is electronic eyewear including a lens.

5. The eyewear system of claim 4, wherein the lens comprises the electrical functional member.

6. The eyewear system of claim 5, wherein the electronic functional member is configured to provide an optical function.

7. The eyewear system of claim 4, wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a virtual reality function, an augmented reality function, a gaming function, and an active 3D function.

8. The eyewear system of claim 1, further comprising the electrical functional member, wherein:

the electrical functional member comprises at least one electrical connector, and

the connective element directly connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member.

9. The eyewear system of claim 8, wherein the intermediate electrical contact is located at one of: a rim of the eyewear, a surface of the electronic functional member, a frame front of the eyewear system, an electronic display, and an electronic controller.

10. The eyewear system of claim 1, wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a GPS, an alarm, a hearing aid, a virtual reality function, an augmented reality function, a gaming function, an audio output function, a microphone function, a recording function, a transmitter function, a pedometer, and an active 3D function.

11. The eyewear system of claim 1, wherein the electrical connective element is a conductive compressible member.

12. The eyewear system of claim 11, wherein the conductive compressible member is conductive rubber.

13. The eyewear system of claim 1, wherein the connective element comprises a multi-conductor cable.

ABSTRACT

Eyewear including an optical functional member, control electronics, and a sealed electrical connective element connecting the electronics to the optical functional member. The connective element can directly connect the electronics to the optical functional member, or can connect through an intermediate contact, e.g., a plug-and-receptacle. The connective element can be routed from the electronics, around a rimlock of the eyewear to the optical functional member. The connective element can be a conductive compressible member, such as conductive rubber. In some embodiments, the connective element can be a multiconductor cable.

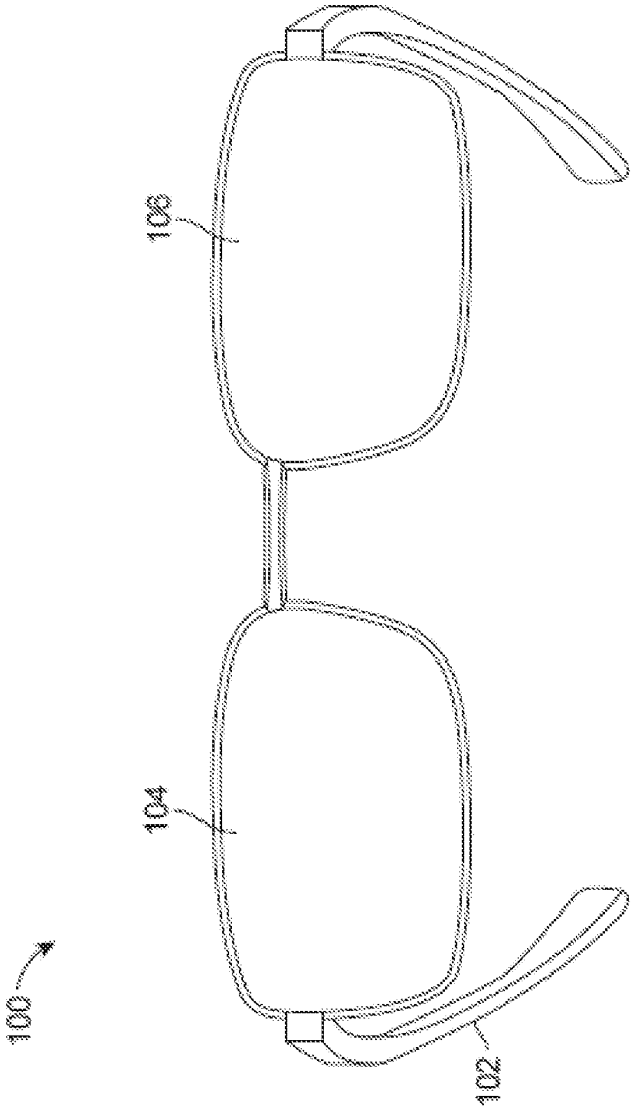


FIG. 1

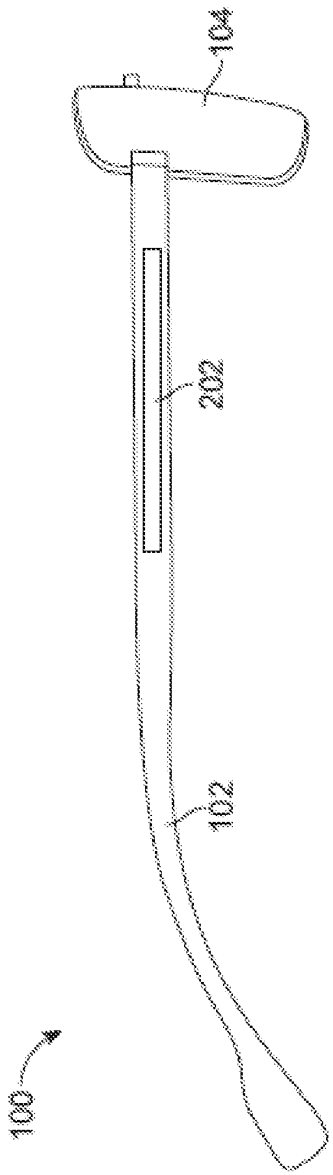


FIG. 2

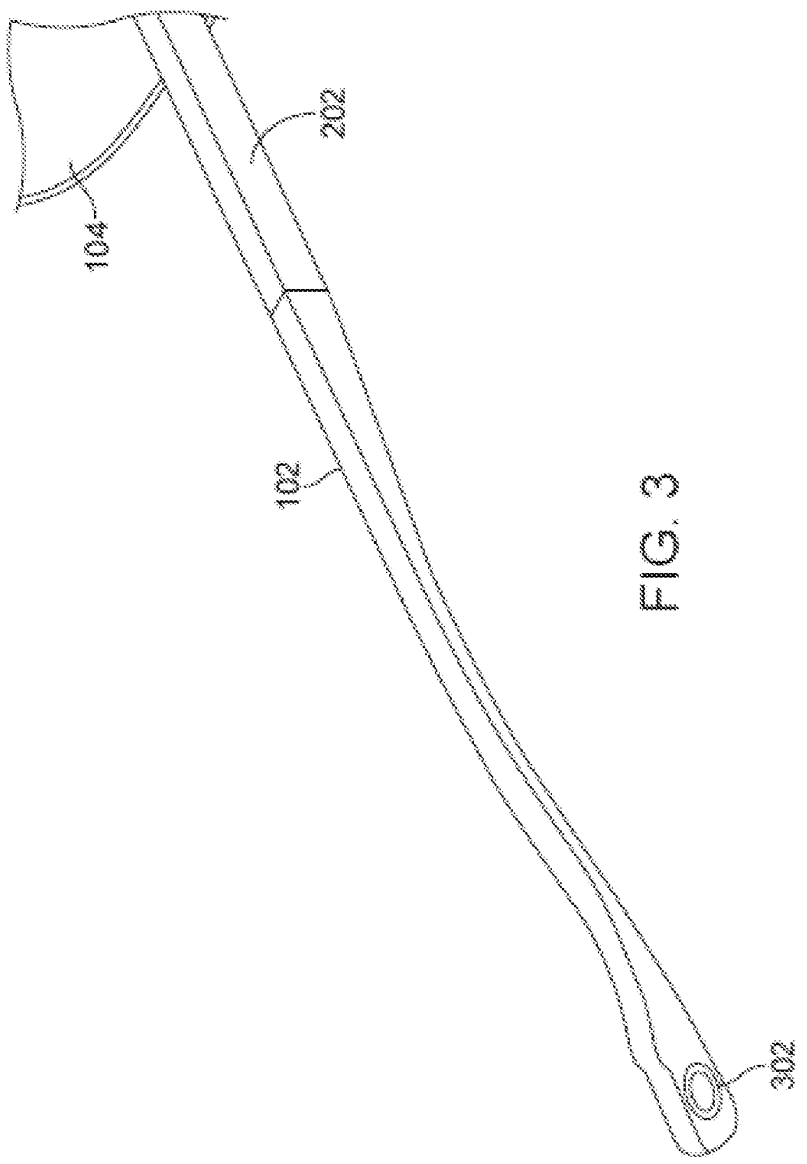


FIG. 3

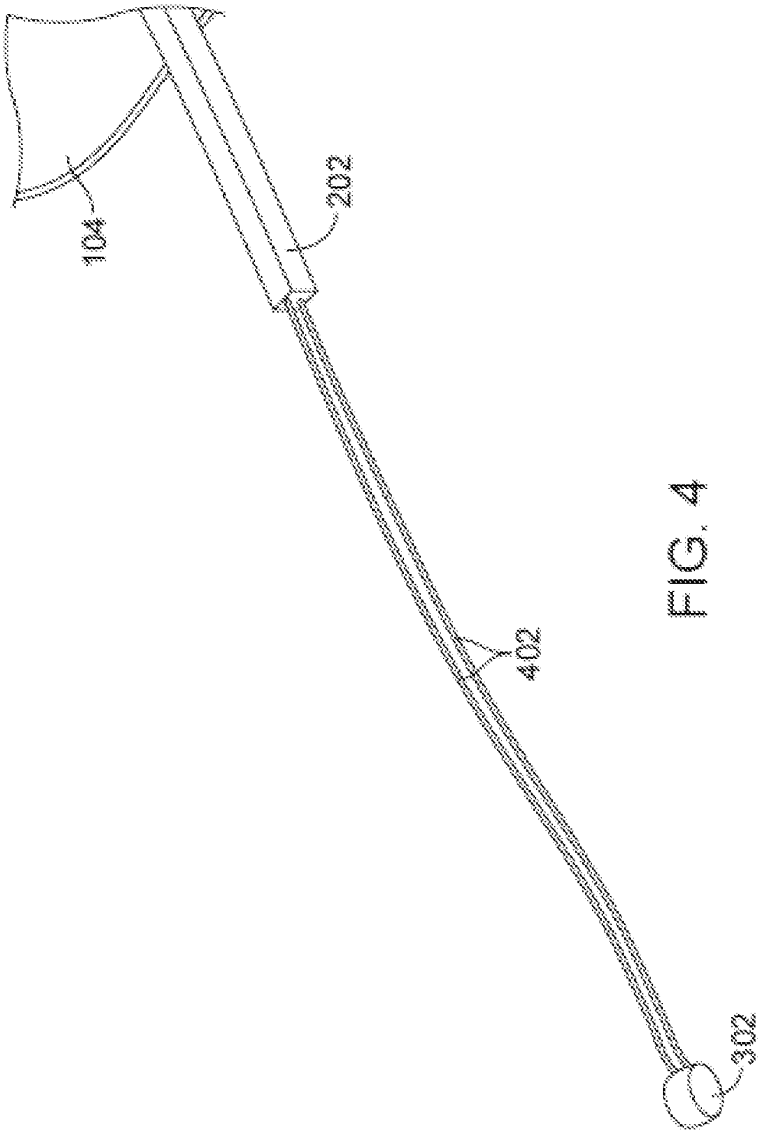


FIG. 4

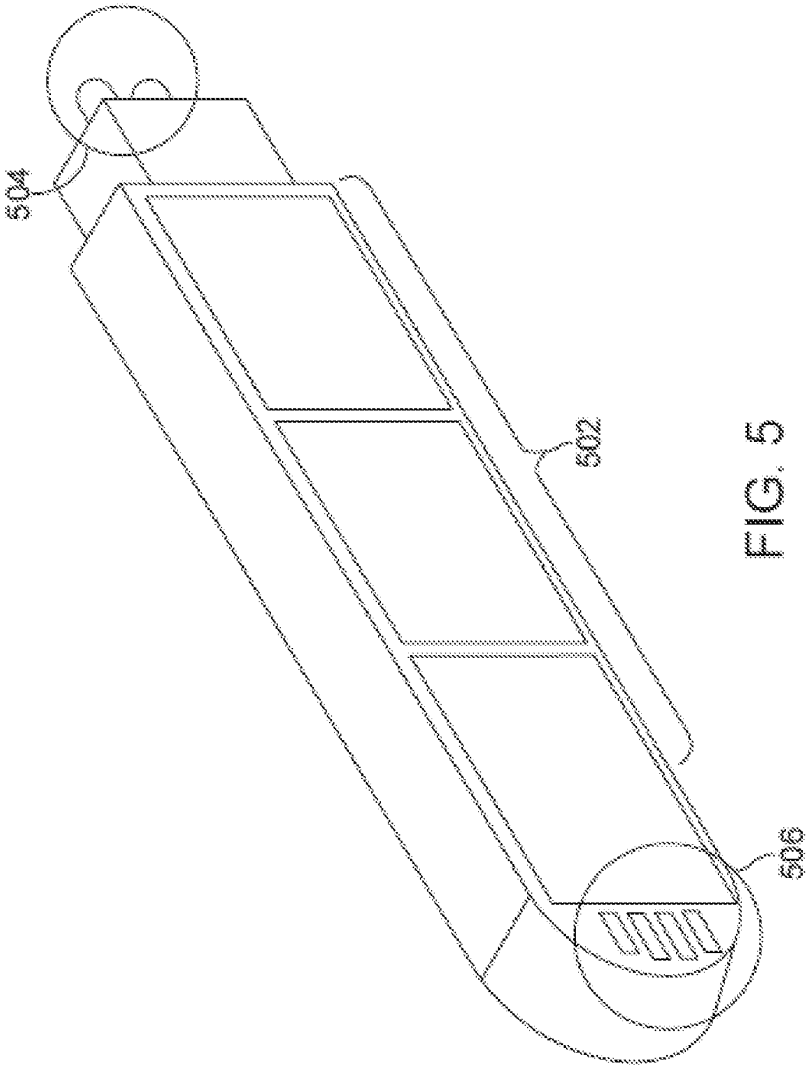


FIG. 5

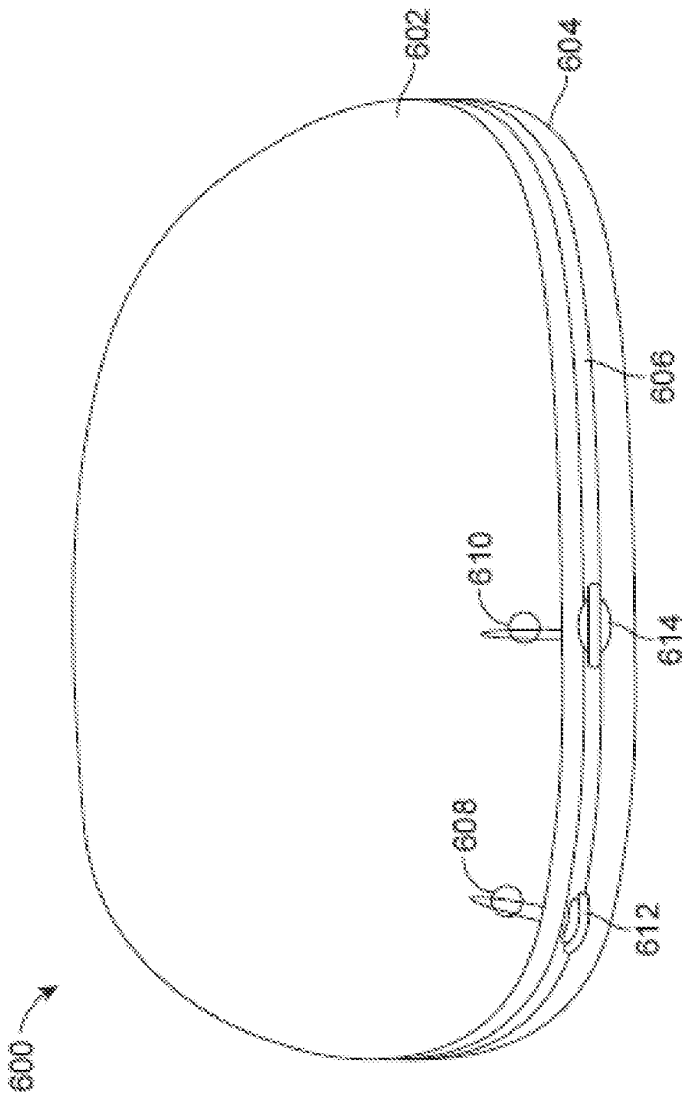


FIG. 6

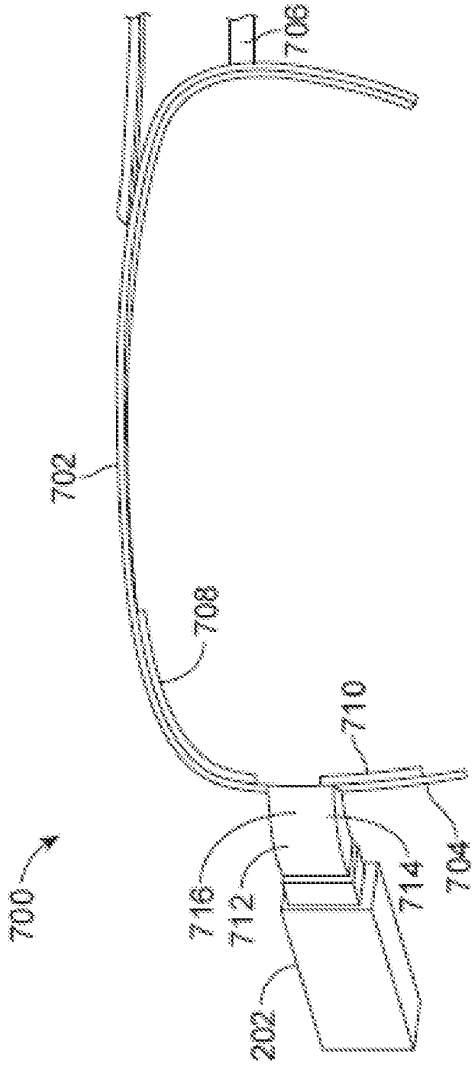


FIG. 7

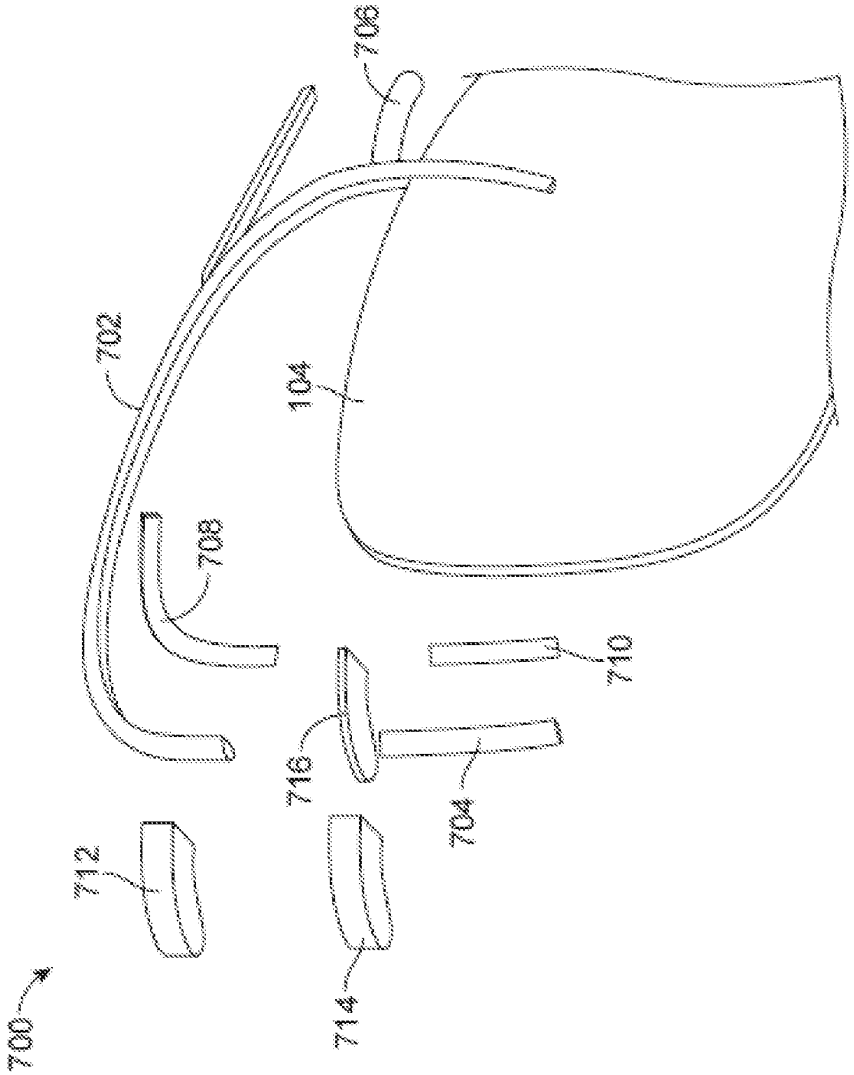


FIG. 8

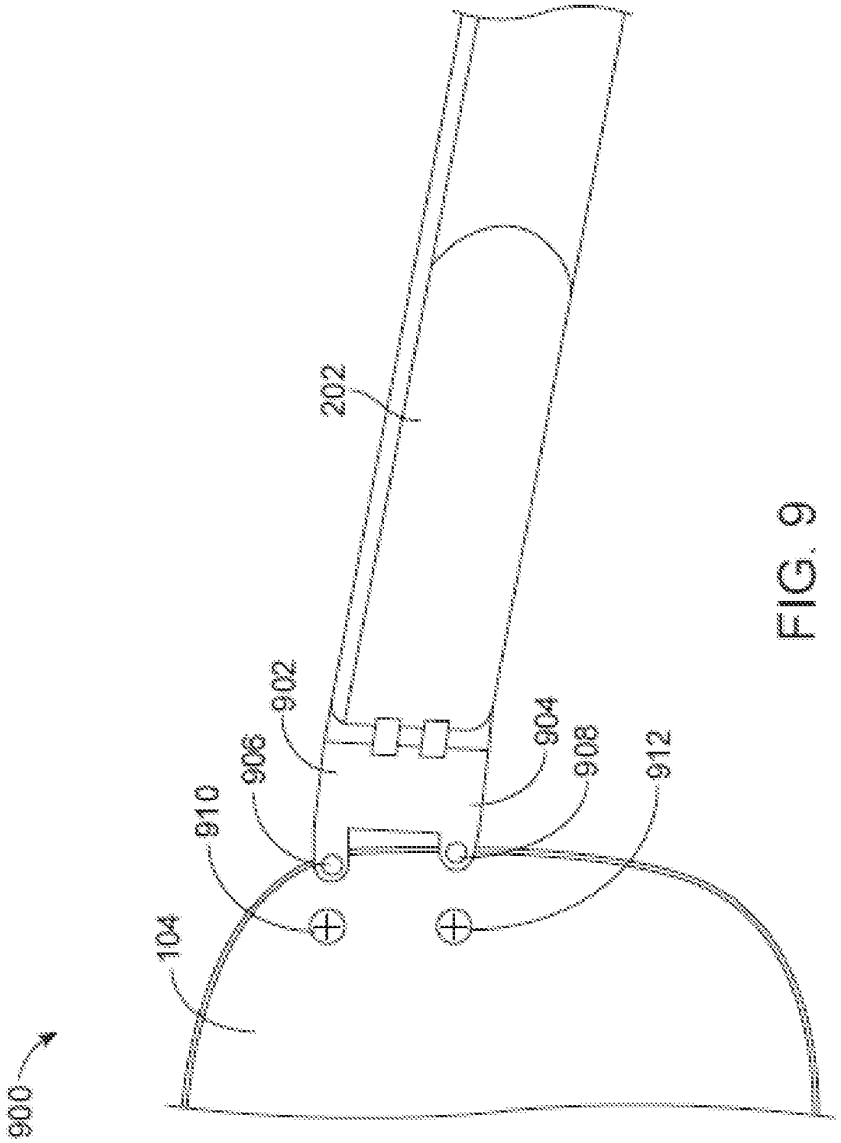


FIG. 9

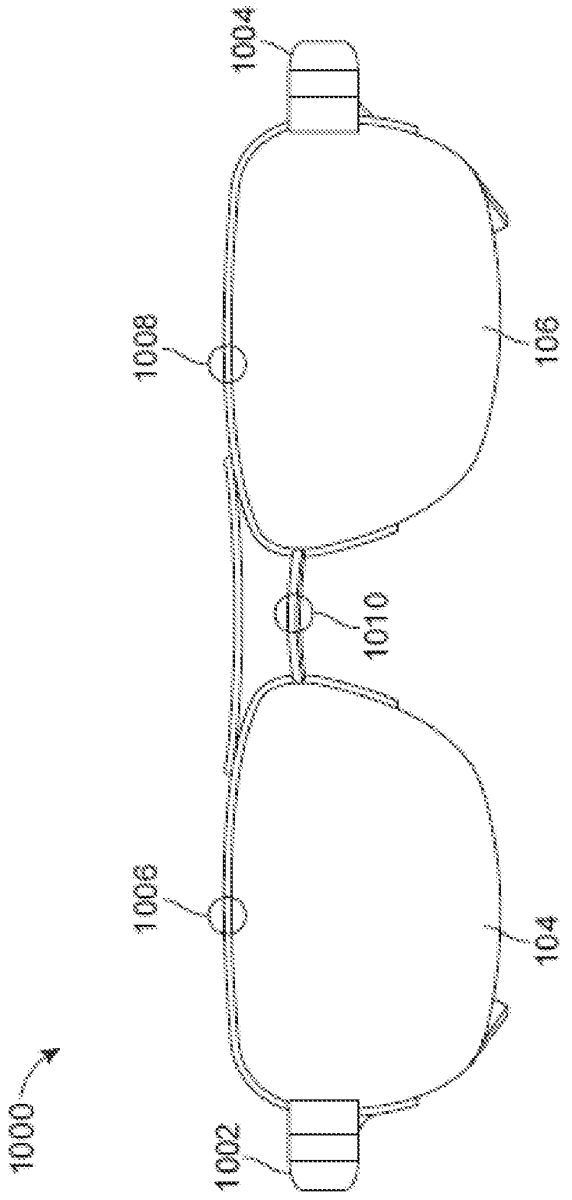


FIG. 10

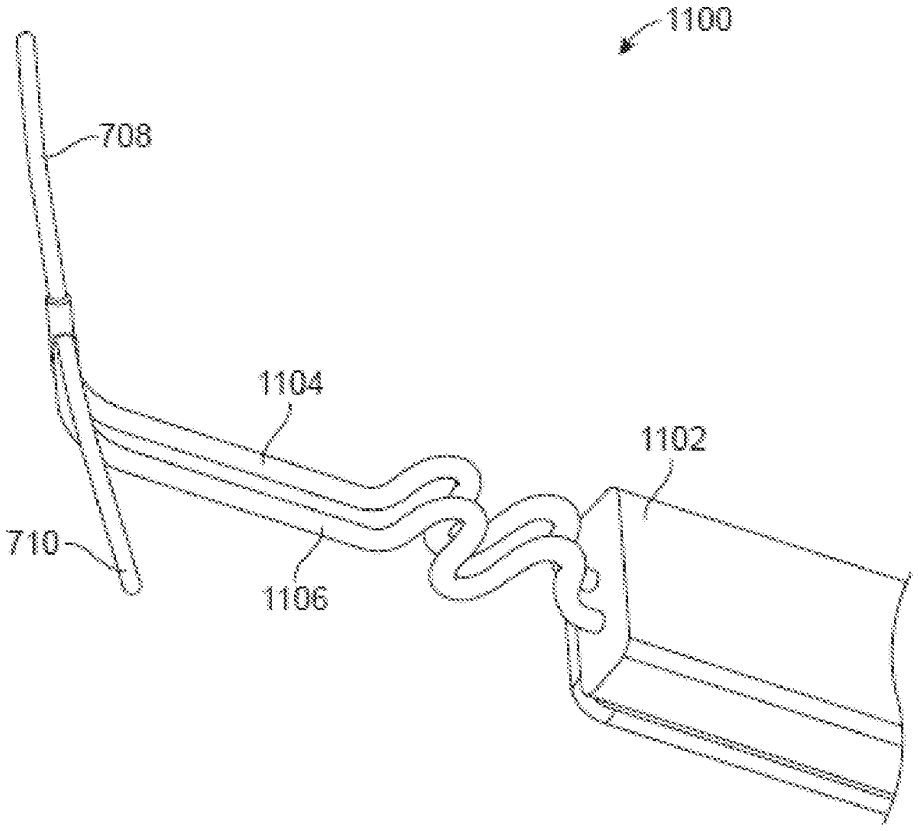


FIG. 11

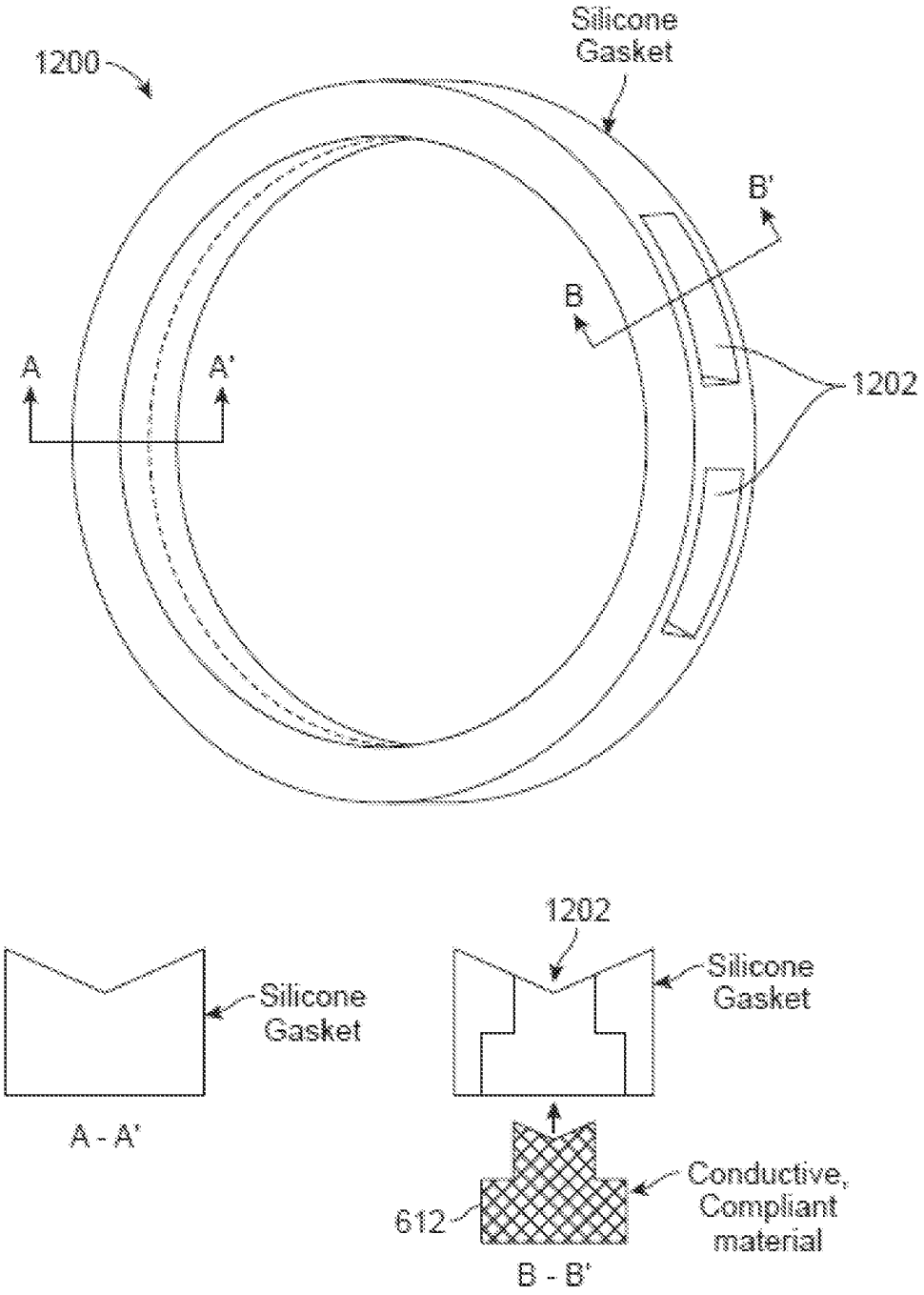

1200
Silicone Gasket
B'
B
A
A'
1202
Silicone Gasket
A - A'
1202
Silicone Gasket
612
Conductive, Compliant material
B - B'

FIG. 12-A

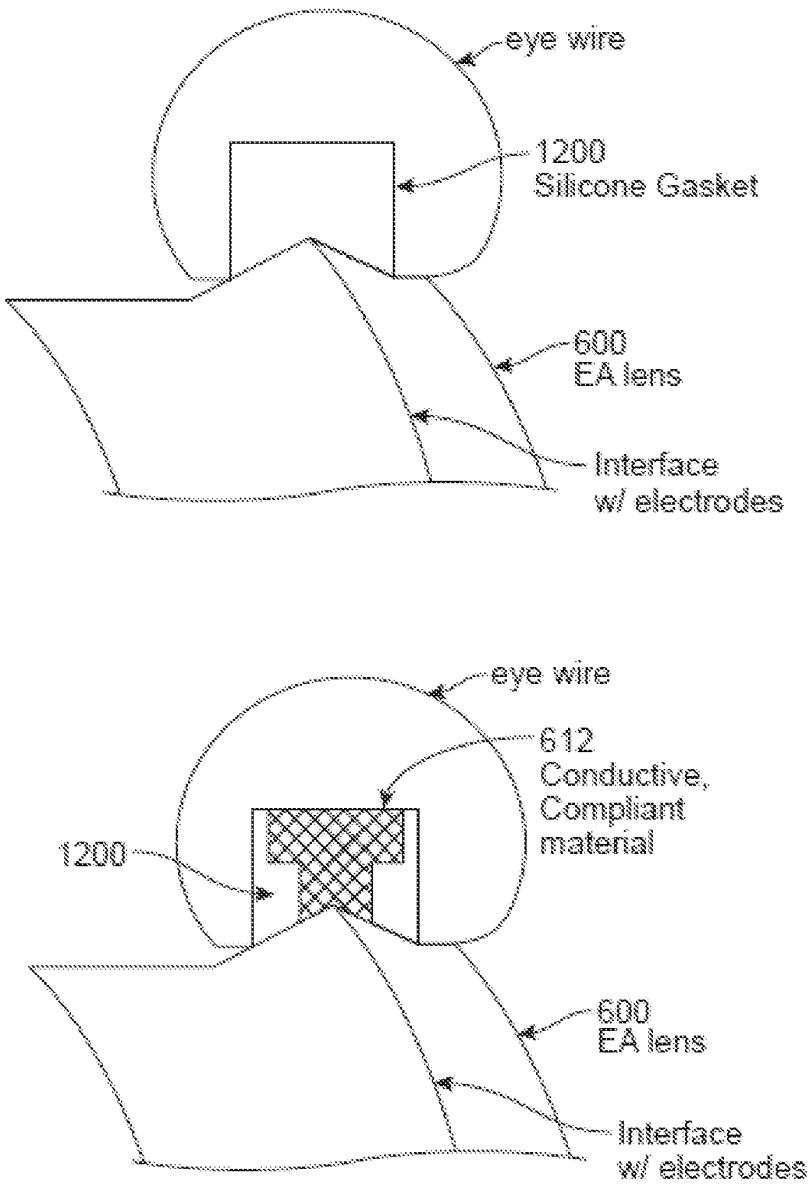

eye wire
1200
Silicone Gasket
600
EA lens
Interface
w/ electrodes
eye wire
612
Conductive,
Compliant
material
1200
600
EA lens
Interface
w/ electrodes

FIG. 12-B

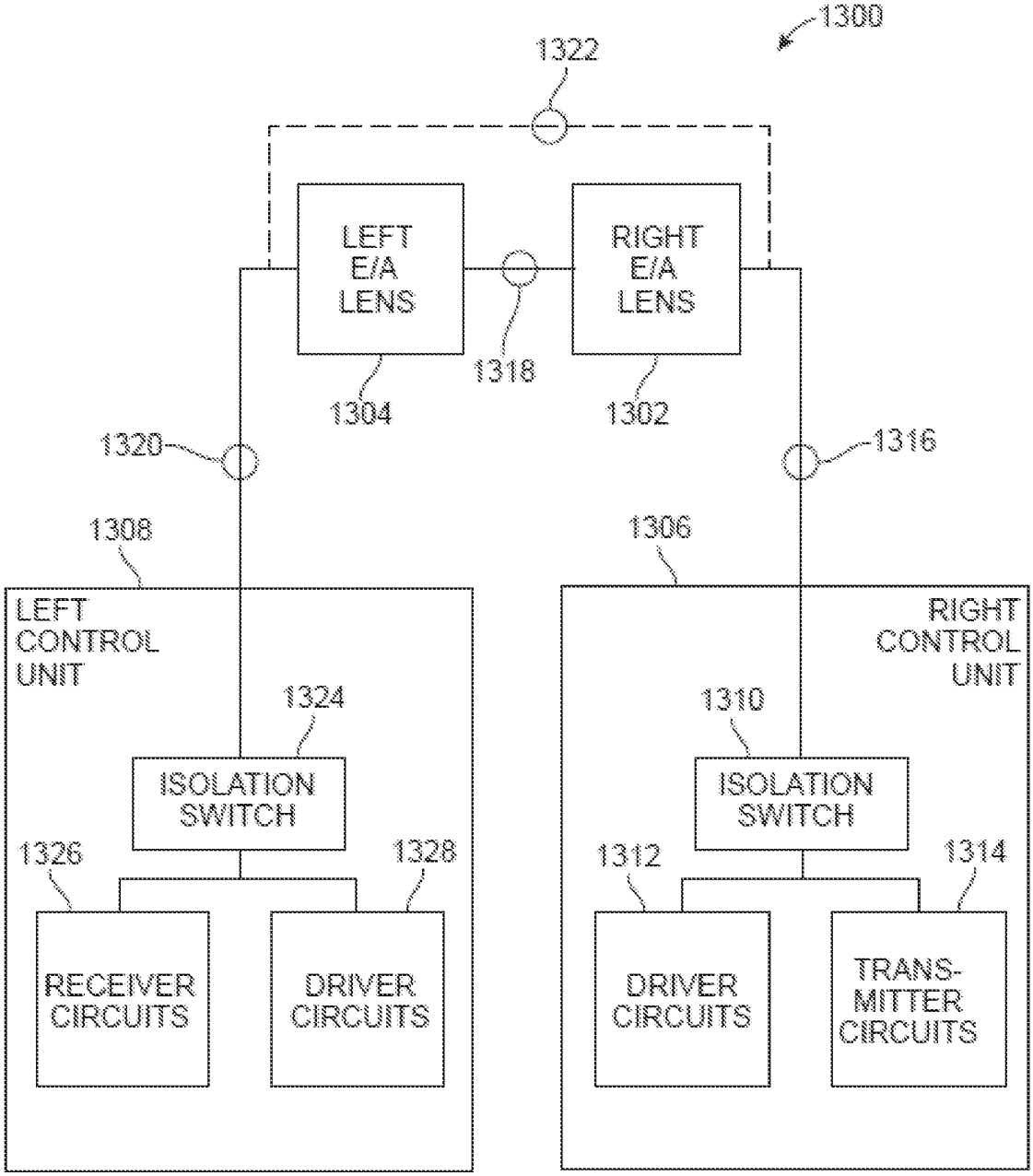

1300
1322
LEFT E/A LENS
RIGHT E/A LENS
1318
1304
1302
1320
1316
1308
1306
LEFT CONTROL UNIT
RIGHT CONTROL UNIT
1324
1310
ISOLATION SWITCH
ISOLATION SWITCH
1326
1328
1312
1314
RECEIVER CIRCUITS
DRIVER CIRCUITS
DRIVER CIRCUITS
TRANS-MITTER CIRCUITS

FIG. 13

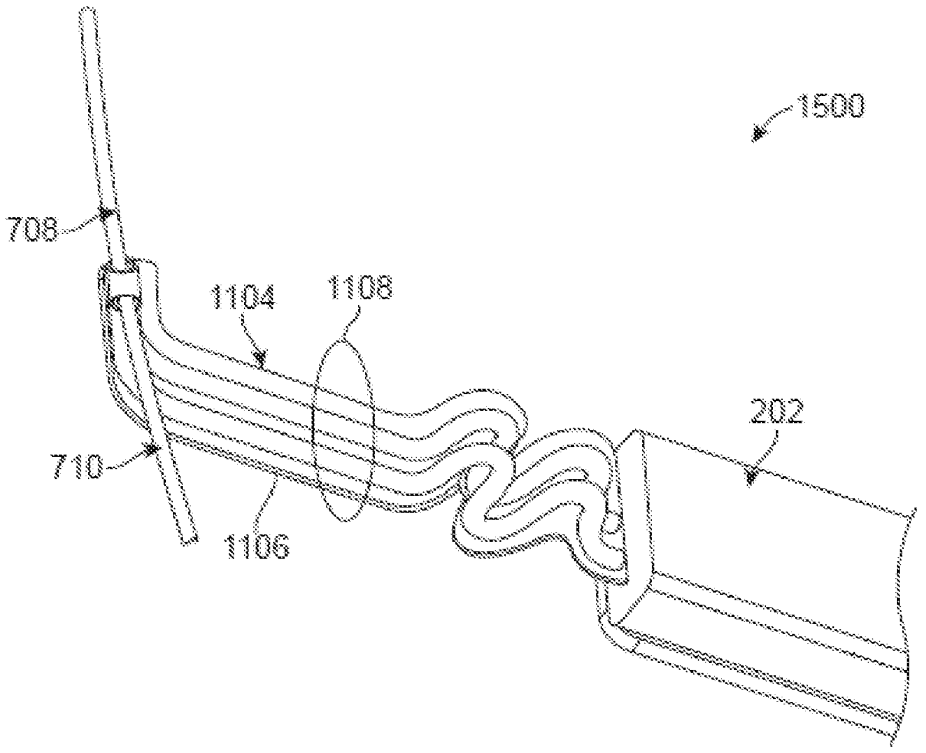


FIG. 14

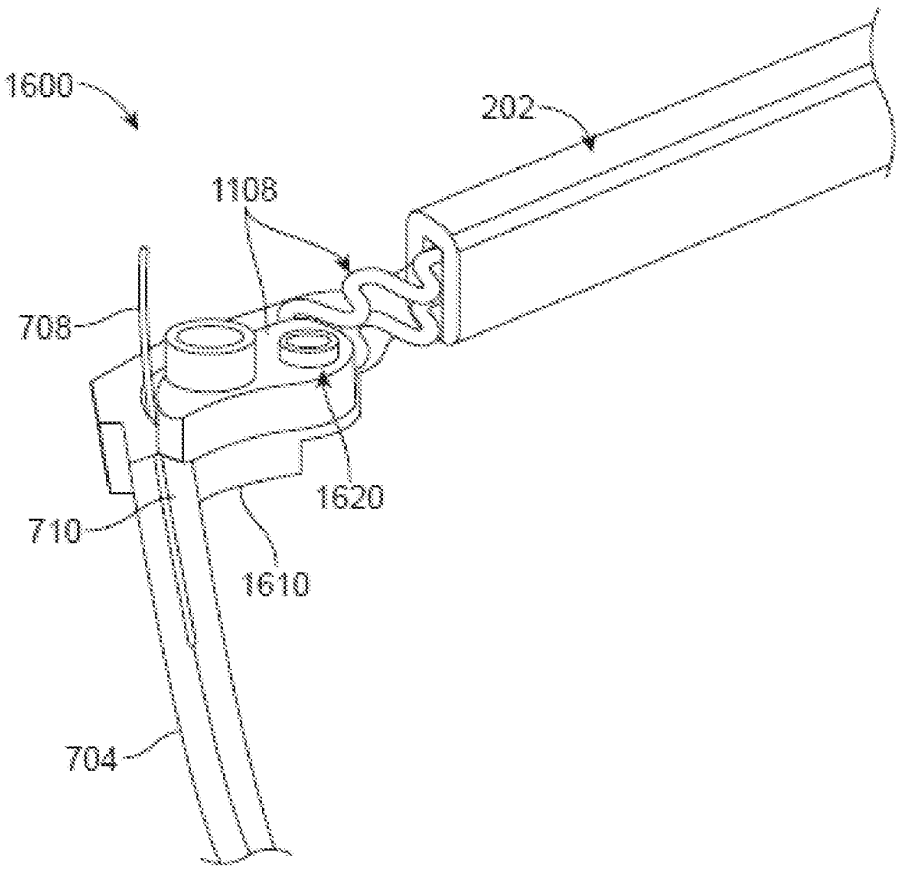


FIG. 15

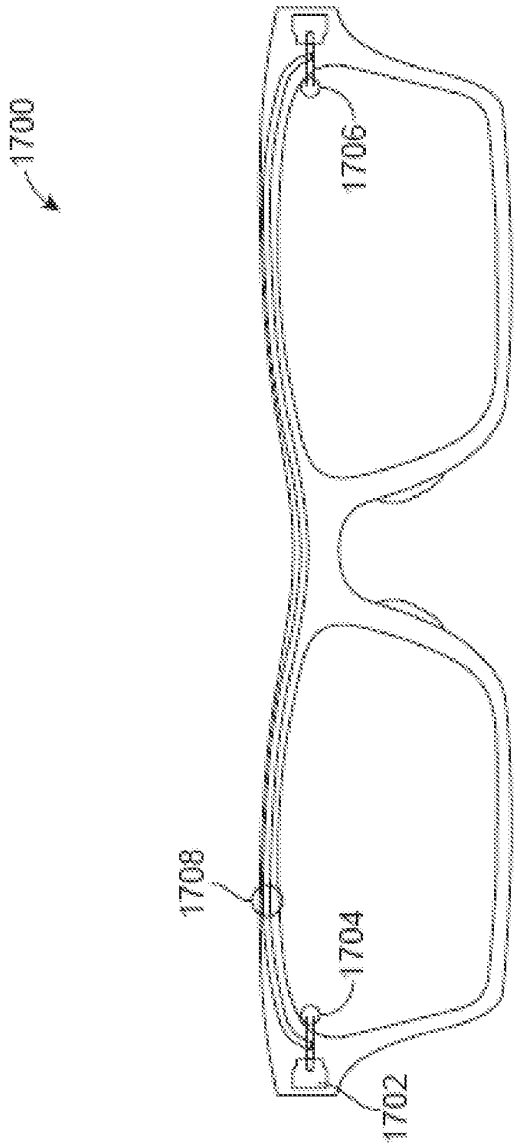


FIG. 16

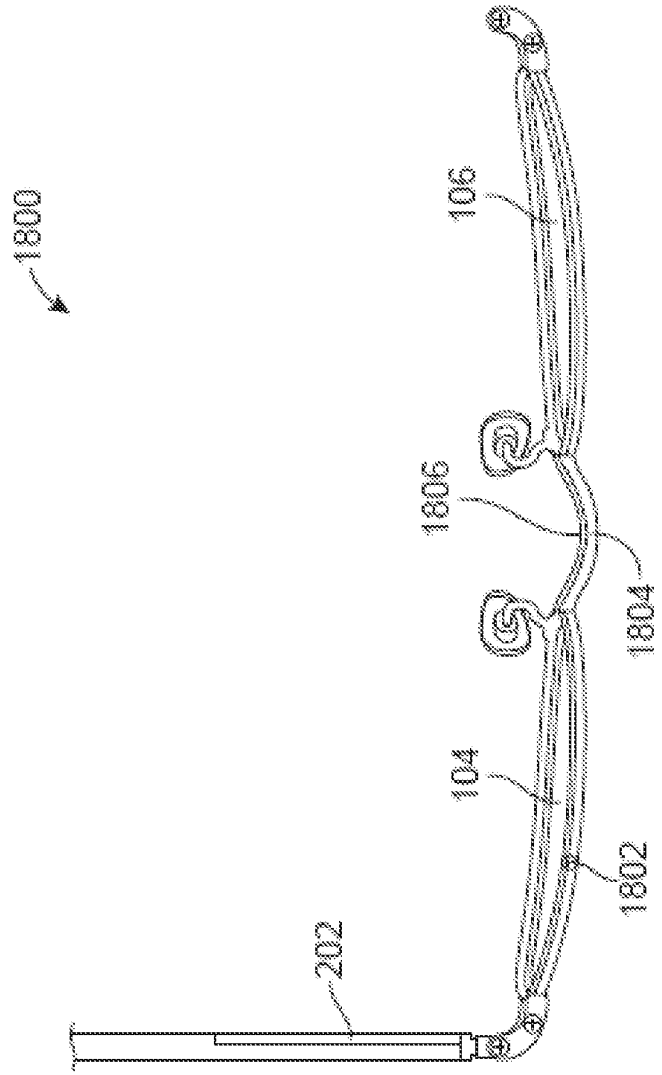


FIG. 17

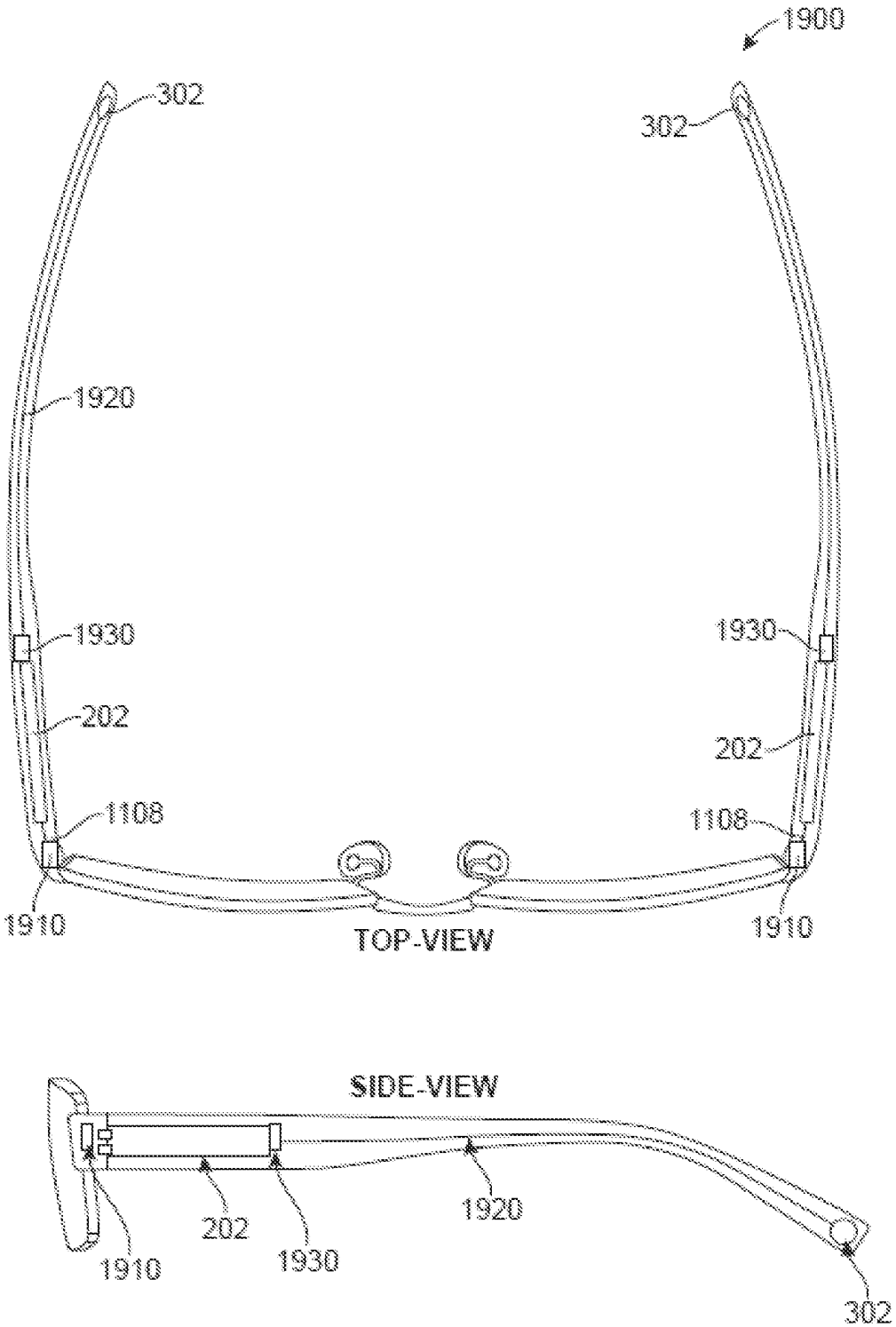

1900
302
302
1920
1930
1930
202
202
1108
1108
1910
1910
TOP-VIEW
SIDE-VIEW
202
1930
1920
1910
302

FIG. 18

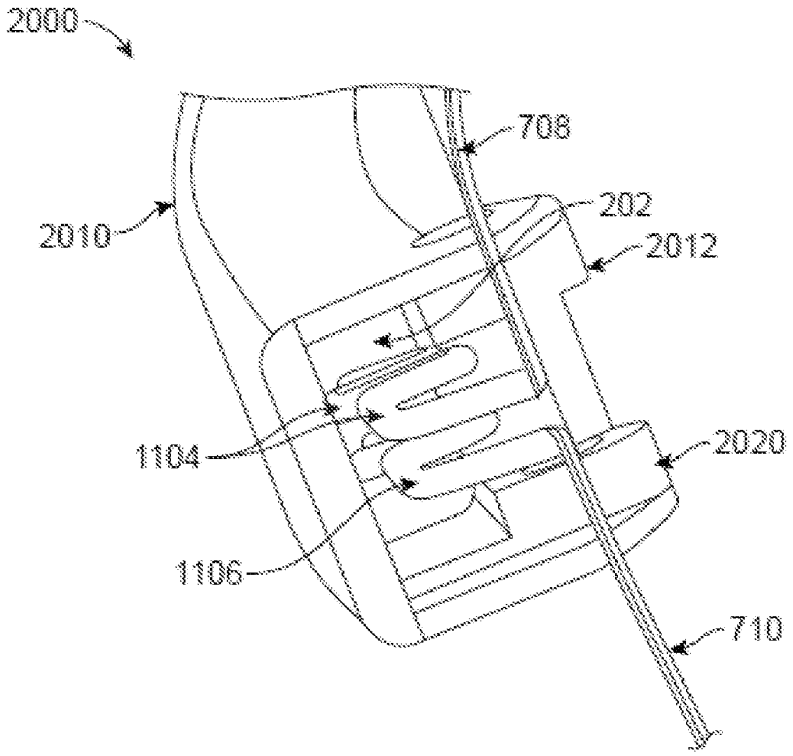


FIG. 19

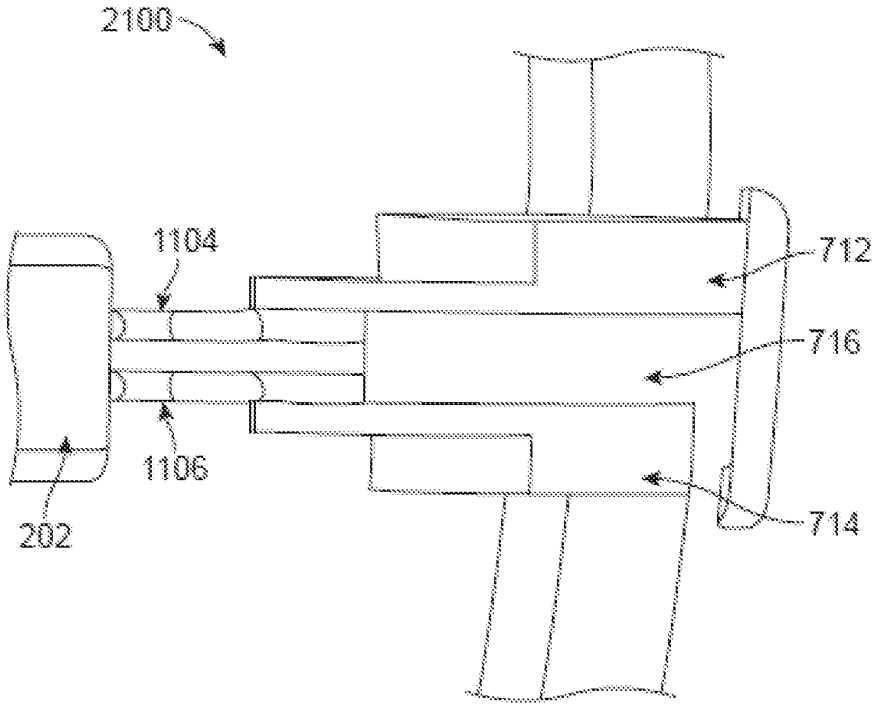


FIG. 20

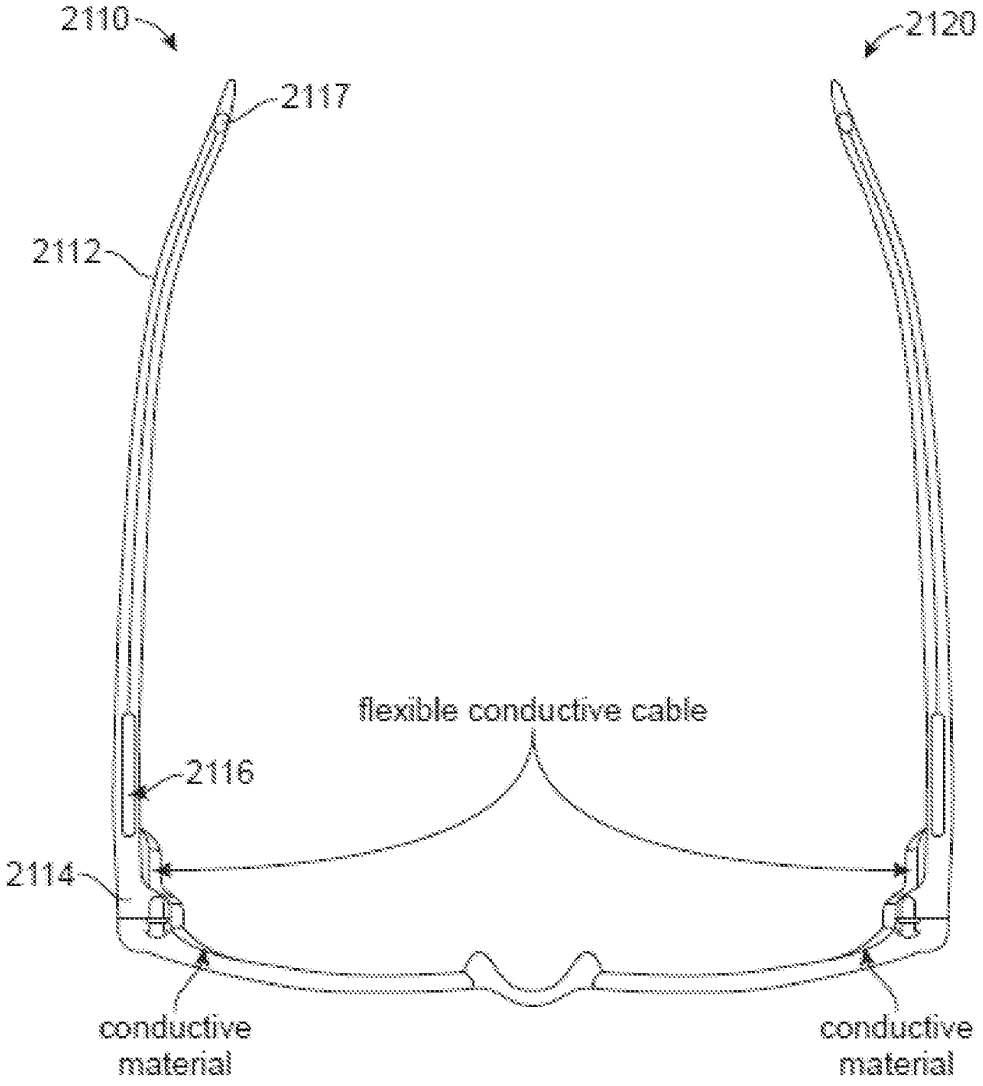

2110
2120
2117
2112
flexible conductive cable
2116
2114
conductive material
conductive material

FIG. 21

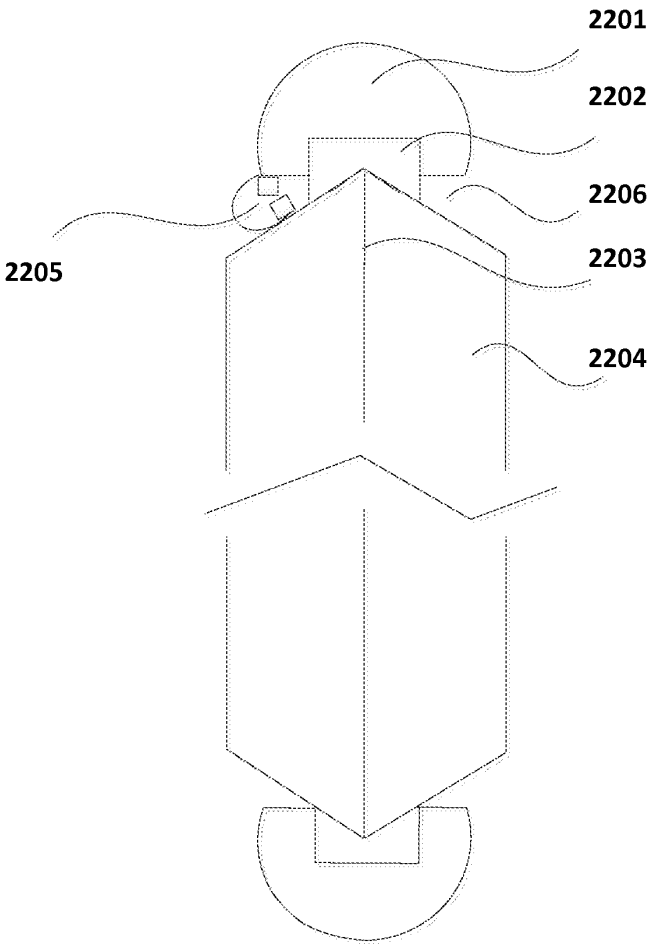


FIG. 22

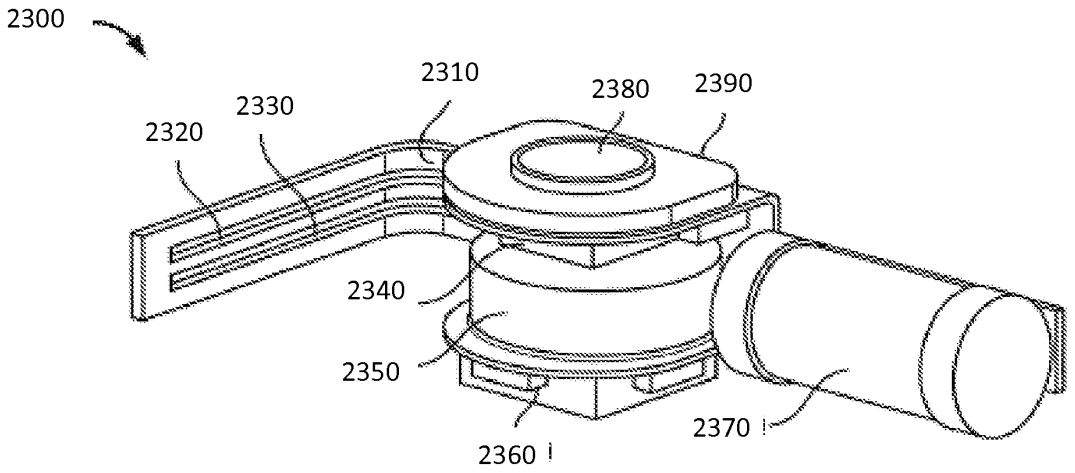


FIG. 23A

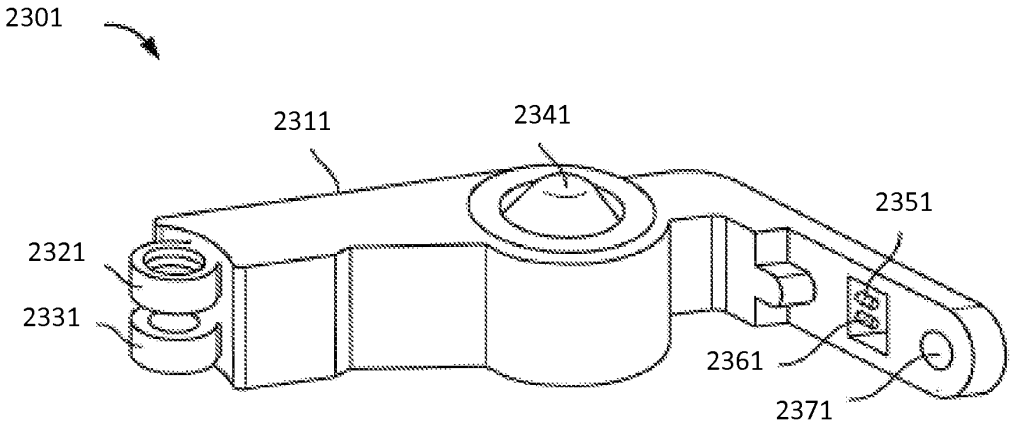


FIG. 23B

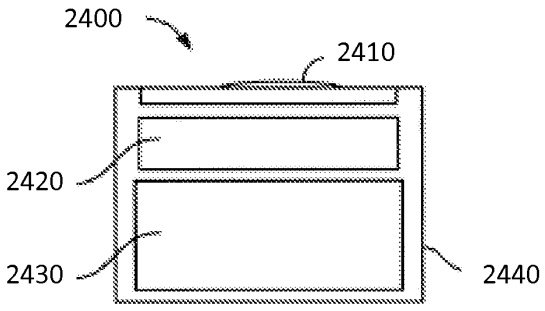


FIG. 24A

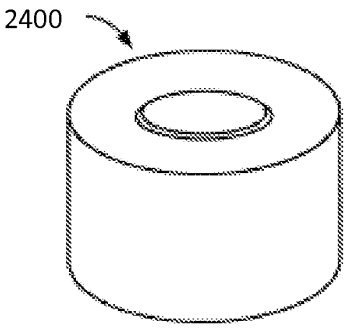


FIG. 24B

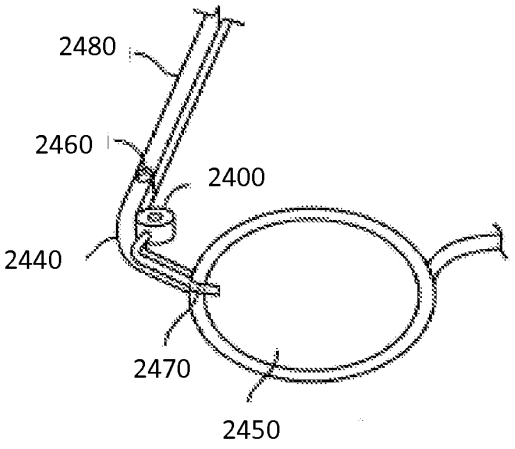


FIG. 24C

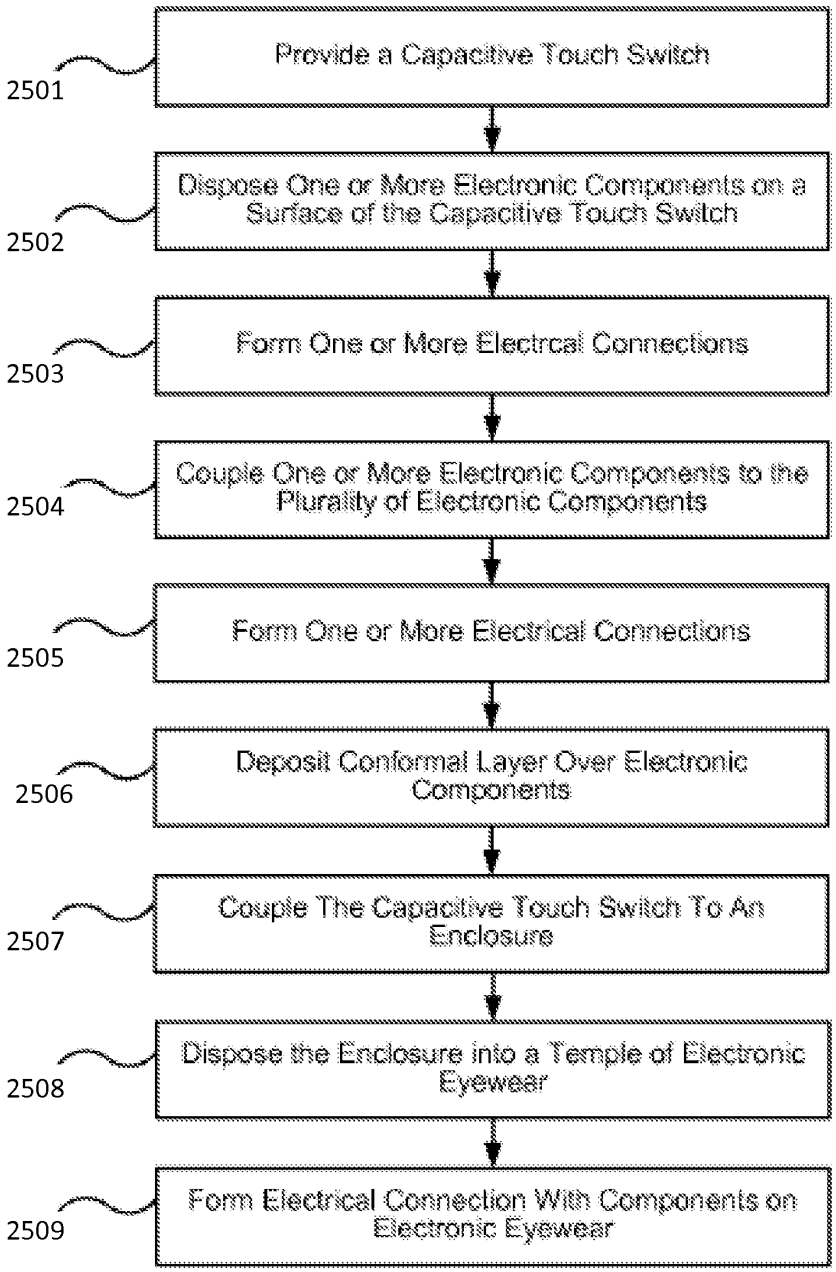

2501
Provide a Capacitive Touch Switch
2502
Dispose One or More Electronic Components on a Surface of the Capacitive Touch Switch
2503
Form One or More Electrcal Connections
2504
Couple One or More Electronic Components to the Plurality of Electronic Components
2505
Form One or More Electrical Connections
2506
Deposit Conformal Layer Over Electronic Components
2507
Couple The Capacitive Touch Switch To An Enclosure
2508
Dispose the Enclosure into a Temple of Electronic Eyewear
2509
Form Electrical Connection With Components on Electronic Eyewear

FIG. 25

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information

Inventor 1					
Legal Name					
Prefix	**Given Name**	**Middle Name**		**Family Name**	**Suffix**
	Ronald	D.		Blum	
Residence Information (Select One)	[X] US Residency	[ ] Non US Residency		[ ] Active US military Service	
City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States
Mailing Address of Inventor:					
Address 1	5241 Valleypark Drive				
Address 2					
City	Roanoke	**State/Province**	Virginia		
Postal Code	24019	**Country**	United States		

Inventor 2					
Legal Name					
Prefix	**Given Name**	**Middle Name**		**Family Name**	**Suffix**
	William			Kokonaski	
Residence Information (Select One)	[X] US Residency	[ ] Non US Residency		[ ] Active US military Service	

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Gig Harbor	**State/Province**	Washington	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 3

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Claudio	Dalla	Longa	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 4

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Mark		Graham	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 5

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Joshua		Haddock	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 6

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Charles		Willey	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 7

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Tiziano		Tabacchi	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 8

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Martin		Bock	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 9

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Massimo		Pinazza	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 10

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Scott	N.	Richman	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 11

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Volkan		Ozguz	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

[ ] **An Address is being provided for the correspondence Information of this application**

Customer Number	72162
Email Address	ipefiling@kilpatricktownsend.com

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Application Information:

Title of Invention	HIGHLY MOISTURE RESISTANT ELECTRONIC EYEGLASS FRAME - COMBINED FILING			
Attorney Docket Number	91904-857754	**Small Entity Status Claimed** ☐		
Application Type	NonProvisional			
Subject Matter	Utility			
	Total Number of Drawing Sheets (if any)	26	**Selected Figure for Publication (if any)**	

Publication Information:

	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	[X] Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	72162		

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status			
Application Number	**Continuity Type**	**Prior Application Number**	**Filing Date**
This Application	Continuation of	13/587,645	August 16, 2012
This Application	Non-Provisional of	61/638,290	April 25, 2012
This Application	Continuation of	13/372,240	February 12, 2012
This Application	Non-Provisional of	61/563,937	November 28, 2011
This Application	Continuation of	13/298,997	November 17, 2011
This Application	Continuation of	13/298,992	November 17, 2011
This Application	Non-Provisional of	61/537,205	September 21, 2011
This Application	Non-Provisional of	61/524,567	August 17, 2011
This Application	Continuation of	13/169,996	June 27, 2011
This Application	Non-Provisional of	61/441,817	February 11, 2011
This Application	Continuation of	12/834,526	July 12, 2010
This Application	Non-Provisional of	61/358,447	June 25, 2010
This Application	Continuation of	12/054,299	March 24, 2008
This Application	Non-Provisional of	60/929,419	June 26, 2007

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a). When priority is claimed to a foreign application this is eligible for retrieval under the priority document exchange program (PDX) the information

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectualy property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country	Filing Date	Access Code (if applicable)

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☒ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

X Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h) (3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded by the Office.

Applicant 1

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor
☐ Person to whom the inventor is obligated to assign	☐ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:	

If the Assignee is an Organization check here. ☒

Organization Name:	PixelOptics, Inc.		
Mailing Address Information:			
Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Country United States		**Postal Code**	24019
Phone Number		**Fax Number**	
Email Address			

Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

part 3 of Title 37 of the CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

If the Assignee is an Organization check here. ☐

Organization Name			
Mailing Address Information for Non-Applicant Assignee:			
Address 1			
Address 2			
City		**State/Province**	
Country		**Postal Code**	
Phone Number		**Fax Number**	
Email Address			

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.14 for signature requirements and certifications.

Signature	/James E. Golladay/			**Date**	2013-05-09
First Name	James	**Last Name**	Golladay	**Registration Number**	58,182

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. **Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS** ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Electronic Patent Application Fee Transmittal	
Application Number:	
Filing Date:	
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Filer:	James Emerson Golladay II/Sharon Eurich
Attorney Docket Number:	91904-857754
Filed as Large Entity	

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility application filing	1011	1	280	280
Utility Search Fee	1111	1	600	600
Utility Examination Fee	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1600**

Electronic Acknowledgement Receipt	
EFS ID:	15737296
Application Number:	13890809
International Application Number:	
Confirmation Number:	9971
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Customer Number:	72162
Filer:	James Emerson Golladay II/Sharon Eurich
Filer Authorized By:	James Emerson Golladay II
Attorney Docket Number:	91904-857754
Receipt Date:	09-MAY-2013
Filing Date:	
Time Stamp:	16:40:01
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1600
RAM confirmation Number	3511
Deposit Account	201430
Authorized User	GOLLADAY, JAMES
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2013_05_09_TRANS_APP_DWGS_91904_857754.pdf	1419240 6fff645c6e3480c964ba4d022d75682d69ed1c13	yes	81

Multipart Description/PDF files in .zip description

Document Description	Start	End
Transmittal of New Application	1	1
Specification	2	44
Drawings-only black and white line drawings	45	70
Application Data Sheet	71	81

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	33168 6692f3c1465f6f5d642d20cfeeff7e8ab5c50c08	no	2

Warnings:

Information:

Total Files Size (in bytes):	1452408

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

I hereby certify that this correspondence is being filed via EFS-Web with the United States Patent and Trademark Office on May 22, 2013.

KILPATRICK TOWNSEND & STOCKTON LLP

By: /Sharon D. Eurich/

PATENT
Attorney Docket No.: 91904-857754

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Confirmation No.: 9971
Ronald D. Blum et al.	Examiner:
Application No.: 13/890,809	Technology Center/Art Unit:
Filed: May 9, 2013	
For: MOISTURE RESISTANT EYE WEAR	PRELIMINARY AMENDMENT
Customer No.: 72162	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

Prior to examination of the above-identified application, please enter the following amendments and remarks:

Amendments to the Specification begin on page 2 of this paper.

Remarks/Arguments begin on page 3 of this paper.

Amendments to the Specification:

Please replace paragraph [0002] with the following amended paragraph:

The present application is a continuation-in-part of, and claims priority to and incorporates by the reference in the entirety each of the following patent applications: U.S. Pat. App. No. 13/726,267, filed December 24, 2012; U.S. Pat. App. No. 13/587,645, filed ~~August 18, 2012~~ August 16, 2013 and entitled "Moisture-Resistant Electronic Spectacle Frames"; U.S. Pat. App. No. 13/372,240, filed February 13, 2012, and entitled "Electronic Frames Comprising Electrical Conductors"; U.S. Pat. App. No. 13/169,996, filed June 27, 2011, and entitled "High Performance, Low Cost Multifocal Lens Having dynamic Progressive Optical Power Region"; U.S. Pat. App. No. 12/834,526, filed July 12, 2010, and entitled "Electronic Eyeglass Frame"; U.S. Pat. App. No. 13/298,997 filed November 17, 2011, and entitled "Electronic Spectacle Frames"; U.S. Pat. App. No. 13/298,992 filed November 17, 2011, and entitled "Electronic Spectacle Frames"; and U.S. Pat. App. No. 12/054,299 filed March 24, 2008, and entitled "Electronic Eyeglass Frame".

REMARKS/ARGUMENTS

Claims 1-13 are pending in this Application. By this Amendment, the Specification is amended to correct a typographical error. The amendment introduces no new matter.

Prompt examination and the issuance of a formal Notice of Allowance at an early date are respectfully requested.

Further, the Commissioner is hereby authorized to charge any additional fees or credit any overpayment in correction with this paper to Deposit Account No. 20-1430.

If the Examiner believes a telephone conference would expedite prosecution of this application, please contact the undersigned at (202) 481-9932.

Respectfully submitted,

/James E. Golladay/
James E. Golladay
Registration No. 58,182

KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 415-576-0200
Fax: 415-576-0300
JEG:SE

65438971V.1

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information

Inventor 1					
Legal Name					
Prefix	**Given Name**	**Middle Name**		**Family Name**	**Suffix**
	Ronald	D.		Blum	
Residence Information (Select One)	[X] US Residency	[ ] Non US Residency		[ ] Active US military Service	
City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States
Mailing Address of Inventor:					
Address 1	5241 Valleypark Drive				
Address 2					
City	Roanoke	**State/Province**	Virginia		
Postal Code	24019	**Country**	United States		

Inventor 2					
Legal Name					
Prefix	**Given Name**	**Middle Name**		**Family Name**	**Suffix**
	William			Kokonaski	
Residence Information (Select One)	[X] US Residency	[ ] Non US Residency		[ ] Active US military Service	

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Gig Harbor	**State/Province**	Washington	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 3

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Claudio		Dalla Longa	

Residence Information (Select One)	[X] -US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 4

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Mark		Graham	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 5

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Joshua		Haddock	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 6

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Charles		Willey	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 7

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Tiziano		Tabacchi	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 8

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Martin		Boch	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 9

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Massimo		Pinazza	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 10

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Scott	N.	Richman	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Inventor 11

Legal Name

Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Volkan		Ozguz	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	**State/Province**	Virginia	**Country of Residence**	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Postal Code	24019	**Country**	United States

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

[ ] **An Address is being provided for the correspondence Information of this application**

Customer Number	72162
Email Address	ipefiling@kilpatricktownsend.com

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Application Information:

Title of Invention	HIGHLY MOISTURE RESISTANT ELECTRONIC EYEGLASS FRAME - COMBINED FILING			
Attorney Docket Number	91904-857754	**Small Entity Status Claimed** ☐		
Application Type	NonProvisional			
Subject Matter	Utility			
	Total Number of Drawing Sheets (if any)	26	**Selected Figure for Publication (if any)**	

Publication Information:

	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	[X] Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	72162		

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status			
Application Number	**Continuity Type**	**Prior Application Number**	**Filing Date**
This Application	Continuation in Part of	13/587,645	August 16, 2012
13/587,645	Non-Provisional of	61/563,937	November 28, 2011
13/587,645	Non-Provisional of	61/537,205	September 21, 2011
13/587,645	Non-Provisional of	61/524,567	August 17, 2011
13/587,645	Continuation in Part of	13/372,240	February 13, 2012
This Application	Continuation in Part of	13/726,267	December 24, 2012
13/726,267	Non-Provisional of	60/978,517	October 9, 2007
13/726,267	Non-Provisional of	60/929,991	July 20, 2007
13/726,267	Non-Provisional of	60/929,419	June 26, 2007
13/726,267	Non-Provisional of	60/924,225	May 4, 2007
13/726,267	Continuation of	12/834,526	July 12, 2010
13/726,267	Continuation of	12/054,299	March 24, 2008
This Application	Continuation in Part of	13/372,240	February 13, 2012
13/372,240	Non-Provisional of	61/441,817	February 11, 2011
This Application	Continuation in part of	13/169,996	June 27, 2011
13/169,996	Non-Provisional of	61/382,963	September 15, 2010
13/169,996	Non-Provisional of	61/366,746	July 22, 2010
13/169,996	Non-Provisional of	61/358,447	June 25, 2010
13/169,996	Non-Provisional of	61/326,703	April 22, 2010

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

13/169,996	Non-Provisional of	61/317,100	March 24, 2010
13/169,996	Continuation in Part of	PCT/US2011/029419	March 22, 2011
This Application	Continuation in Part of	12/834,526	July 12, 2010
12/834,526	Non-Provisional of	60/978,517	October 9, 2007
12/834,526	Non-Provisional of	60/929,991	July 20, 2007
12/834,526	Non-Provisional of	60/929,419	June 26, 2007
12/834,526	Non-Provisional of	60/924,225	May 4, 2007
12/834,526	Continuation of	12,054,299	March 24, 2008
This Application	Continuation in Part of	13/298,997	November 17, 2011
13/298,997	Non-Provisional of	61/481,353	May 2, 2011
13/298,997	Non-Provisional of	61/415,391	November 19, 2010
13/298,997	Non-Provisional of	61/376,719	August 25, 2010
13/298,997	Non-Provisional of	61/362,877	July 9, 2010
13/298,997	Non-Provisional of	61/361,110	July 2, 2010
13/298,992	Continuation in Part of	13/179,219	July 8, 2011
13/298,992	Continuation in Part of	13/175,633	July 1, 2011
13/298,992	Continuation in Part of	13/175,634	July 1, 2011
This Application	Continuation in Part of	13/298,992	November 17, 2011
13/298,992	Non-Provisional of	61/481,353	May 2, 2011
13/298,992	Non-Provisional of	61/415,391	November 19, 2010
13/298,992	Non-Provisional of	61/376,719	August 25, 2010
13/298,992	Non-Provisional of	61/362,877	July 9, 2010
13/298,992	Non-Provisional of	61/361,110	July 2, 2010
This Application	Continuation in Part of	13/866,575	April 19, 2013

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

13/866,575	Non-Provisional of	61/638,290	April 25, 2012

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a). When priority is claimed to a foreign application this is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectualy property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country	Filing Date	Access Code (if applicable)

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☒ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

[X] Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h) (3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor
☐ Person to whom the inventor is obligated to assign	☐ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:	

If the Assignee is an Organization check here. ☒

Organization Name:	PixelOptics, Inc.		
Mailing Address Information:			
Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	**State/Province**	Virginia
Country United States		**Postal Code**	24019
Phone Number		**Fax Number**	
Email Address			

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded by the Office.			
Assignee 1			
Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).			
If the Assignee is an Organization check here. ☐			
Organization Name			
Mailing Address Information for Non-Applicant Assignee:			
Address 1			
Address 2			
City		**State/Province**	
Country		**Postal Code**	
Phone Number		**Fax Number**	
Email Address			

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.14 for signature requirements and certifications.					
Signature	/James E. Golladay/			**Date**	2013-05-22
First Name	James	**Last Name**	Golladay	**Registration Number**	58,182

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	91904-857754
	Application Number	TBA
Title of Invention	MOISTURE RESISTANT EYE WEAR	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. **Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS** ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

65420220V.1

Electronic Acknowledgement Receipt	
EFS ID:	15839303
Application Number:	13890809
International Application Number:	
Confirmation Number:	9971
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Customer Number:	72162
Filer:	James Emerson Golladay II/Sharon Eurich
Filer Authorized By:	James Emerson Golladay II
Attorney Docket Number:	91904-857754
Receipt Date:	22-MAY-2013
Filing Date:	
Time Stamp:	10:55:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		2013_05_22_PRELIM_ADS_91904_857754.pdf	383275 eab6d055c7dc1a5dc644dcb790376a8b3b67311f	yes	16

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Preliminary Amendment	1	3
	Application Data Sheet	4	16
Warnings:			
Information:			
	Total Files Size (in bytes):	383275	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/890,809	05/09/2013	Ronald D. Blum	91904-857754

CONFIRMATION NO. 9971

72162
KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834

FORMALITIES LETTER

OC000000061872831

Date Mailed: 06/20/2013

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing.

Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- A surcharge (for late submission of the basic filing fee, search fee, examination fee or inventor's oath or declaration) as set forth in 37 CFR 1.16(f) of $ **140** for an undiscounted entity, must be submitted.

SUMMARY OF FEES DUE:

Total fee(s) required within **TWO MONTHS** from the date of this Notice is $ **140** for an undiscounted entity
- $ **140** Surcharge.

Items Required To Avoid Processing Delays:

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  All
  Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.
- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Ronald D. Blum
  William Kokonaski
  Claudio Dalla Longa
  Mark Graham
  Joshua Haddock

Charles Willey
Tiziano Tabacchi
Martin Bock
Massimo Pinazza
Scott N. Richman
Volkan Ozguz

Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be mailed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

/aabranyos/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/890,809

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	13 minus 20 =	*			OR	x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1600

APPLICATION AS AMENDED - PART II

AMENDMENT A

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

AMENDMENT B

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/890,809	05/09/2013	2872	1600	91904-857754	13	1

CONFIRMATION NO. 9971

72162
KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834

FILING RECEIPT

OC000000061872830

Date Mailed: 06/20/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Ronald D. Blum, Roanoke, VA;
William Kokonaski, Gig Harbor, WA;
Claudio Dalla Longa, Roanoke, VA;
Mark Graham, Roanoke, VA;
Joshua Haddock, Roanoke, VA;
Charles Willey, Roanoke, VA;
Tiziano Tabacchi, Roanoke, VA;
Martin Bock, Roanoke, VA;
Massimo Pinazza, Roanoke, VA;
Scott N. Richman, Roanoke, VA;
Volkan Ozguz, roanoke, VA;

Applicant(s)

PixelOptics, Inc., Roanoke, VA

Assignment For Published Patent Application

PixelOptics, Inc., Roanoke, VA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 13/587,645 08/16/2012
which claims benefit of 61/563,937 11/28/2011
and claims benefit of 61/537,205 09/21/2011
and claims benefit of 61/524,567 08/17/2011
and is a CIP of 13/372,240 02/13/2012
This application 13/890,809
is a CIP of 13/726,267 12/24/2012

which is a CON of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN
This application 13/890,809
is a CIP of 13/372,240 02/13/2012
which claims benefit of 61/441,817 02/11/2011
This application 13/890,809
is a CIP of 13/169,996 06/27/2011
which claims benefit of 61/382,963 09/15/2010
and claims benefit of 61/366,746 07/22/2010
and claims benefit of 61/358,447 06/25/2010
and is a CIP of PCT/US2011/029419 03/22/2011
This application 13/890,809
is a CIP of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN
This application 13/890,809
is a CIP of 13/298,997 11/17/2011
which claims benefit of 61/481,353 05/02/2011
and claims benefit of 61/541,391 09/30/2011 ABN

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 06/11/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/890,809**

Projected Publication Date: 09/26/2013

Non-Publication Request: No

Early Publication Request: No

Title

MOISTURE-RESISTANT EYE WEAR

Preliminary Class

351

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: Yes

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international

patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and

Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

To: ipefiling@kilpatricktownsend.com,jlhice@kilpatrick.foundationip.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 72162

Jun 20, 2013 05:22:11 AM

Dear PAIR Customer:

KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 72162 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
13890809	NTC.MISS.PRT	06/20/2013	91904-857754
	APP.FILE.REC	06/20/2013	91904-857754

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/890,809	05/09/2013	Ronald D. Blum	91904-857754

CONFIRMATION NO. 9971

72162
KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834

PUBLICATION NOTICE

OC000000064033821

Title:MOISTURE-RESISTANT EYE WEAR

Publication No.US-2013-0250233-A1
Publication Date:09/26/2013

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Office of Public Records. The Office of Public Records can be reached by telephone at (703) 308-9726 or (800) 972-6382, by facsimile at (703) 305-8759, by mail addressed to the United States Patent and Trademark Office, Office of Public Records, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently http://pair.uspto.gov/. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

To: ipefiling@kilpatricktownsend.com,jlhice@kilpatrick.foundationip.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 72162

Sep 27, 2013 05:26:21 AM

Dear PAIR Customer:

KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 72162 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
13890809	NTC.PUB	09/26/2013	91904-857754

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

DANIEL A. GAJEWSKI
ASSOCIATE
(202) 772-8774
DGAJEWSK@SKGF.COM

Sterne Kessler Goldstein Fox
ATTORNEYS AT LAW

October 18, 2013

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Confirmation No. 9971
Mail Stop Missing Parts

Re: U.S. Patent Application
Appl. No. 13/890,809; Filed: May 9, 2013
For: **MOISTURE-RESISTANT EYE WEAR**
Inventors: BLUM *et al.*
Our Ref: 3373.1260000

Commissioner:

In reply to the "Notice to File Missing Parts of Non-Provisional Application," dated June 20, 2013, Applicant transmits the following documents for appropriate action by the U.S. Patent and Trademark Office:

1. Online Credit Card Payment Authorization for $740 to cover:

   $ 140.00 Surcharge for late filing fee or late Oath or Declaration;
   $ 600.00 Extension of time fees; and

2. Petition for Extension of Time Under 37 C.F.R. § 1.136(a).

The above-listed documents are filed electronically through EFS-Web.

Fee payment is provided through online credit card payment. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. If extensions of time under 37 C.F.R. § 1.136 other than those otherwise provided for herewith are required to prevent abandonment of the present patent application, then such extensions of time are hereby petitioned, and any fees therefor are hereby authorized to be charged to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Daniel A. Gajewski
Attorney for Applicant
Registration No. 64,515

DAG/btd
Enclosures

1760620_1

PTO/AIA/22 (03-13)
Approved for use through 3/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): 3373.1260000

Application Number	Filed
13/890,809	May 9, 2013

For: MOISTURE-RESISTANT EYE WEAR

Art Unit	Examiner
2872	To Be Assigned

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

	Fee	Small Entity Fee	Micro Entity Fee	
☐ One month (37 CFR 1.17(a)(1))	$200	$100	$50	$
☒ Two months (37 CFR 1.17(a)(2))	$600	$300	$150	$ 600.00
☐ Three months (37 CFR 1.17(a)(3))	$1,400	$700	$350	$
☐ Four months (37 CFR 1.17(a)(4))	$2,200	$1,100	$550	$
☐ Five months (37 CFR 1.17(a)(5))	$3,000	$1,500	$750	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 19-0036.

☒ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant.

☐ attorney or agent of record. Registration number _____

☒ attorney or agent acting under 37 CFR 1.34. Registration number 64,515

Signature: Daniel A. Gajewski — Date: 10/18/2013

Typed or printed name: Daniel A. Gajewski — Telephone Number: (202) 371-2600

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☒ * Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

1760616

Electronic Patent Application Fee Transmittal

Application Number:	13890809
Filing Date:	09-May-2013
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Filer:	Daniel Adam Gajewski/Barbera Dooley
Attorney Docket Number:	91904-857754

Filed as Large Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Late Filing Fee for Oath or Declaration	1051	1	140	140
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 2 months with $0 paid	1252	1	600	600
Miscellaneous:				
		Total in USD ($)		**740**

Electronic Acknowledgement Receipt	
EFS ID:	17171002
Application Number:	13890809
International Application Number:	
Confirmation Number:	9971
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Customer Number:	72162
Filer:	Daniel Adam Gajewski/Barbera Dooley
Filer Authorized By:	Daniel Adam Gajewski
Attorney Docket Number:	91904-857754
Receipt Date:	18-OCT-2013
Filing Date:	09-MAY-2013
Time Stamp:	16:45:52
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$740
RAM confirmation Number	4046
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1		3373_1260000_respMP.pdf	272918 40c3e5856b4113f1feb6a8693f4bde7f6e595f89	yes	2

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Applicant Response to Pre-Exam Formalities Notice	1	1
	Extension of Time	2	2

Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	32530 6834dab362362aab212afc1dfd7a9f14f19ed1c4	no	2
Warnings:					
Information:					
			Total Files Size (in bytes):	305448	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/890,809	05/09/2013	2872	1740	3373.1260000	13	1

CONFIRMATION NO. 9971

UPDATED FILING RECEIPT

72162
KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834

OC000000064539193

Date Mailed: 10/29/2013

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Ronald D. Blum, Roanoke, VA;
William Kokonaski, Gig Harbor, WA;
Claudio Dalla Longa, Roanoke, VA;
Mark Graham, Roanoke, VA;
Joshua Haddock, Roanoke, VA;
Charles Willey, Roanoke, VA;
Tiziano Tabacchi, Roanoke, VA;
Martin Bock, Roanoke, VA;
Massimo Pinazza, Roanoke, VA;
Scott N. Richman, Roanoke, VA;
Volkan Ozguz, roanoke, VA;

Applicant(s)

PixelOptics, Inc., Roanoke, VA

Assignment For Published Patent Application

PixelOptics, Inc., Roanoke, VA

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CIP of 13/587,645 08/16/2012
which claims benefit of 61/563,937 11/28/2011
and claims benefit of 61/537,205 09/21/2011
and claims benefit of 61/524,567 08/17/2011
and is a CIP of 13/372,240 02/13/2012
This application 13/890,809
is a CIP of 13/726,267 12/24/2012

which is a CON of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN
This application 13/890,809
is a CIP of 13/372,240 02/13/2012
which claims benefit of 61/441,817 02/11/2011
This application 13/890,809
is a CIP of 13/169,996 06/27/2011
which claims benefit of 61/382,963 09/15/2010
and claims benefit of 61/366,746 07/22/2010
and claims benefit of 61/358,447 06/25/2010
and is a CIP of PCT/US2011/029419 03/22/2011
This application 13/890,809
is a CIP of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN
This application 13/890,809
is a CIP of 13/298,997 11/17/2011
which claims benefit of 61/481,353 05/02/2011
and claims benefit of 61/541,391 09/30/2011 ABN

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 06/11/2013

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/890,809**

Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

MOISTURE-RESISTANT EYE WEAR

Preliminary Class

351

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: Yes

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international

patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and

Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/890,809	05/09/2013	Ronald D. Blum	3373.1260000

CONFIRMATION NO. 9971

72162
KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834

NOTICE

OC000000064539194

Date Mailed: 10/29/2013

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  All
  Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.
- A properly executed inventor's oath or declaration has not been received for the following inventor(s):
  Ronald D. Blum
  William Kokonaski
  Claudio Dalla Longa
  Mark Graham
  Joshua Haddock
  Charles Willey
  Tiziano Tabacchi
  Martin Bock
  Massimo Pinazza
  Scott N. Richman
  Volkan Ozguz

  Applicant may submit the inventor's oath or declaration at any time before the Notice of Allowance and Fee(s) Due, PTOL-85, is mailed.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 13/890,809

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	280
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	600
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	720
TOTAL CLAIMS (37 CFR 1.16(i))	13 minus 20 =	*			OR	x 80 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*				x 420 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1600

APPLICATION AS AMENDED - PART II

AMENDMENT A

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

AMENDMENT B

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
					TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

To: ipefiling@kilpatricktownsend.com,jlhice@kilpatrick.foundationip.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 72162

Oct 29, 2013 05:25:49 AM

Dear PAIR Customer:

KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 72162 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
13890809	APP.FILE.REC	10/29/2013	3373.1260000
	M327	10/29/2013	3373.1260000

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/890,809	05/09/2013	Ronald D. Blum	3373.1260000	9971

72162 7590 11/07/2014

KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834

EXAMINER	
O'NEILL, GARY WILLIAM	
ART UNIT	PAPER NUMBER
2872	

NOTIFICATION DATE	DELIVERY MODE
11/07/2014	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipefiling@kilpatricktownsend.com
jlhice@kilpatrick.foundationip.com

Office Action Summary	Application No. 13/890,809	Applicant(s) BLUM ET AL.	
	Examiner GARY O'NEILL	Art Unit 2872	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-13* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-13* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *05/09/2013* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 112

2. The following is a quotation of 35 U.S.C. 112(b):
(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 9 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

4. Claim 9 recites the limitation "the intermediate electrical contact" in line 1. There is insufficient antecedent basis for this limitation in the claim. For the purposes of this examination, claim 9 is interpreted as depending from claim 2. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

7. Claims 1-11 and 13 are rejected under 35 U.S.C. §102 (a)(1) as being anticipated by Jannard (U.S. Patent Publication 2006/0132382).

8. Regarding claim 1, Jannard teaches an eyewear system (figures 3J, 3M) comprising: an electronics module (284) comprising electronics for controlling an electrical functional member (page 4, paragraph [0083]; page 15, paragraph [0217]); and at least one electrical connective element (ribbon connector, page 9, paragraph [0149]) configured to connect the electronics of the electronics module and the electrical functional member, wherein, at least one of the electrical connective element and the electronics module is sealed (page 8, paragraph [0129]; page 9, paragraph [0138]).

9. Regarding claim 2, Jannard teaches further comprising at least one intermediate electrical contact, wherein: the electrical functional member comprises at least one

electrical connector, and the connective element connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member through the at least one intermediate electrical contact (ribbon cable end-piece attaches at printed circuit board mating receptacle, paragraphs [0148, 0149] & figure 3M).

10. Regarding claim 3, Jannard teaches wherein the eyewear system is an eyewear frame (42').

11. Regarding claim 4, Jannard teaches wherein the eyewear system is electronic eyewear including a lens (44, paragraph [0083]).

12. Regarding claim 5, Jannard teaches wherein the lens comprises the electrical functional member (paragraph [0083]).

13. Regarding claim 6, Jannard teaches wherein the electronic functional member is configured to provide an optical function (paragraphs [0083, 0217], figure 8A).

14. Regarding claim 7, Jannard teaches wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a virtual reality function, an augmented reality function, a gaming function, and an active 3D function (paragraphs [0083, 0217], figure 8A).

15. Regarding claim 8, Jannard teaches further comprising the electrical functional member, wherein: the electrical functional member comprises at least one electrical connector, and the connective element directly connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member (figures 3M, 8A).

16. Regarding claim 9, Jannard teaches wherein the intermediate electrical contact is located at one of: a rim of the eyewear, a surface of the electronic functional member, a frame front of the eyewear system, an electronic display, and an electronic controller (paragraph [0149], figure 3M).

17. Regarding claim 10, Jannard teaches wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a GPS, an alarm, a hearing aid, a virtual reality function, an augmented reality function, a gaming function, an audio output function, a microphone function, a recording function, a transmitter function, a pedometer, and an active 3D function (paragraphs [0083, 0217], figure 8A).

18. Regarding claim 11, Jannard teaches wherein the electrical connective element is a conductive compressible member (ribbon connector, page 9, paragraph [0149]).

19. Regarding claim 13, Jannard teaches wherein the connective element comprises a multi- conductor cable (ribbon cable, page 9, paragraph [0149]).

Claim Rejections - 35 USC § 103

20. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

21. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

22. This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

23. Claim 12 is rejected under 35 U.S.C. 103 as being unpatentable over Jannard (U.S. Patent Publication 2006/0132382) as applied to claim 11 above, and further in view of Kallman et al. (U.S. Patent 5,455,638).

24. Regarding claim 12, Jannard lacks the explicit teaching wherein the conductive compressible member is conductive rubber. Within the same field of endeavor Kallman teaches an eyewear system (figure 4) wherein the conductive compressible member is

conductive rubber (elastomeric conductive strips from Shin-Etsu Polymer America, Inc. "Shin-Flex MAF-Connector", column 13, lines 53-59). It would be obvious to one having ordinary skill in the art at the time the invention was made to use the elastomeric rubber conductive strips as taught by Kallman within the eyewear as taught by Jannard for the purpose of constructing electrochromic eyewear having flexible circuit assemblies for increased reliability and durability under humid conditions (Kallman, column 13, lines 44, 52-57).

Conclusion

25. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

26. Ikeda (U.S. Patent 4,520,238) discloses a pickup device fitted to an eyeglass assembly.

27. Harper (U.S. Patent 6,824,265) discloses eyewear comprising integrated electronic components.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GARY O'NEILL whose telephone number is (313)446-6521. The examiner can normally be reached on Monday - Friday; EST 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 571-272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GARY O'NEILL/
Examiner, Art Unit 2872
October 31, 2014

/DARRYL J COLLINS/
Primary Examiner, Art Unit 2872

Notice of References Cited	Application/Control No. 13/890,809	Applicant(s)/Patent Under Reexamination BLUM ET AL.	
	Examiner GARY O'NEILL	Art Unit 2872	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-4,520,238 A	05-1985	Ikeda, Yasuo	381/151
*	B	US-5,455,638 A	10-1995	Kallman et al.	351/44
*	C	US-6,824,265 B1	11-2004	Harper, Wesley Stephen	351/158
*	D	US-2006/0132382 A1	06-2006	Jannard, James H.	345/008
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 9971

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
13/890,809	05/09/2013 RULE	351	2872	3373.1260000

APPLICANTS

PixelOptics, Inc., Roanoke, VA, Assignee (with 37 CFR 1.172 Interest);

INVENTORS

Ronald D. Blum, Roanoke, VA;
William Kokonaski, Gig Harbor, WA;
Claudio Dalla Longa, Roanoke, VA;
Mark Graham, Roanoke, VA;
Joshua Haddock, Roanoke, VA;
Charles Willey, Roanoke, VA;
Tiziano Tabacchi, Roanoke, VA;
Martin Bock, Roanoke, VA;
Massimo Pinazza, Roanoke, VA;
Scott N. Richman, Roanoke, VA;
Volkan Ozguz, roanoke, VA;

**** CONTINUING DATA ***************************

This application is a CIP of 13/587,645 08/16/2012
which claims benefit of 61/563,937 11/28/2011
and claims benefit of 61/537,205 09/21/2011
and claims benefit of 61/524,567 08/17/2011
and is a CIP of 13/372,240 02/13/2012 PAT 8801174

This application 13/890,809 05/09/2013
is a CIP of 13/726,267 12/24/2012 PAT 8708483
which is a CON of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN

This application 13/890,809 05/09/2013
is a CIP of 13/372,240 02/13/2012 PAT 8801174
which claims benefit of 61/441,817 02/11/2011

This application 13/890,809 05/09/2013
is a CIP of 13/169,996 06/27/2011 ABN
which claims benefit of 61/382,963 09/15/2010
and claims benefit of 61/366,746 07/22/2010
and claims benefit of 61/358,447 06/25/2010
and is a CIP of PCT/US2011/029419 03/22/2011

This application 13/890,809 05/09/2013
is a CIP of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN

This application 13/890,809 05/09/2013
is a CIP of 13/298,997 11/17/2011
which claims benefit of 61/481,353 05/02/2011
and claims benefit of 61/541,391 09/30/2011 ABN

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ****

06/11/2013

BIB (Rev. 05/07).

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13890809	BLUM ET AL.
	Examiner	Art Unit
	GARY O'NEILL	2872

CPC- SEARCHED		
Symbol	Date	Examiner
G02C 11/06, 11/10	10/30/14	GO

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
351	41-158,178	10/30/14	GO

SEARCH NOTES		
Search Notes	Date	Examiner
EAST BRS Search (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) attached	10/30/14	GO

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	141458	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:49
L2	42370	1 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or electroactive or electro-active)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:53
L3	19470	1 same (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or electroactive or electro-active)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:54
L4	9712	3 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet or humid or humidity or fluid or liquid or damp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:59
L5	769368	((conduct$5 or metal$5) near4 (rubber$5 or compress$5 or flexib$4 or coil or coiled or bend$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:09
L6	726	4 and 5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:09
L7	627	6 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or GPS or	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/10/30 17:18

		(global adj position$5) or alarm$4 or hearing or ((virtual or augment$4) near3 reality) or gaming or audio or microphone or recording or transmitter or pedometer or 3D or 3-D)	EPO; JPO; DERWENT; IBM_TDB			
L8	549	7 and (cable$2 or wire or connector or plug$4 or receptacle or multiconduct$5 or multi-conduct$5 or (multi$4 adj2 conduct$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:30
L9	13200	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:30
L10	162	8 and 9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:31
L11	104	10 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:37
L12	90	11 and (electronics or electrical or battery or batteries or microchip or processor or antenna or computer$4 or electroactive or electro-active or control$5 or microprocess$4 or circuit$4 or chip or "IC" or microelectronic$4 or micro-electronic$4 or microelectric$4 or micro-electric$4 or microcontrol$4 or micro-control$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:51
L13	89	12 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or ((virtual or augment$4) near3 reality) or gaming or 3D or 3-D)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:54
L14	58	13 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or ((virtual or augment$4) near3 reality) or gaming or 3D or 3-D).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:54
L15	1	(US-20060132382-$).did.	US-PGPUB	OR	ON	2014/10/30 18:22
L16	2	"20060095128".pn.	US-PGPUB; USPAT;	OR	ON	2014/10/30 18:38

			USOCR; EPO; JPO; DERWENT; IBM_TDB			
L17	60841	BLUM.in. or KOKONASKI.in. or LONGA.in. or GRAHAM.in. or HADDOCK.in. or WILLEY.in. or TABACCHI.in. or BOCK.in. or PINAZZA.in. or RICHMAN.in. or OZGUZ.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:19
L18	13953	Pugh.in. or Otts.in. or Riall.in. or Snook.in. or Putt.in. or Kernick.in. or Flitsch.in. or Higham.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:26
L19	153256	Jannard.in. or Nattress.in. or Mathur.in. or DaSilva.in. or Land.in. or Rose.in. or Davis.in. or Neil.in. or Reyes.in. or Yee.in. or Thixton or Baden.in. or Arnette.in. or Tackels.in. or Houston.in. or Moritz.in. or Rohrbach.in. or Zentil.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:41
L20	226757	17 or 18 or 19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:41
L21	17	12 and 20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:42
L22	6	21 not 14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:42
L23	73	12 not 21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:44
L24	73	1 and 23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:44
L25	73	24 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:45

L26	1	(US-5455638-$).did.	USPAT	OR	ON	2014/10/30 20:27
L27	1	(US-4520238-$).did.	USPAT	OR	ON	2014/10/30 20:28
L28	9	"20100265456".pn. or "42433068".pn. or "20080273166".pn. or "4991951".pn. or "6772448".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 20:57
L29	2	"20050239502".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:02
L30	2	"20090201460".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:02
L31	2	"20120262667".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:02
L32	2	"20130250233".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:03
L33	16629	351/41-158.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:20
L34	16979	351/41-158,178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:21
L35	359	G02C11/06.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:32
L36	563	G02C11/10.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:32
L37	17348	34 or 35 or 36	US-PGPUB; USPAT;	OR	ON	2014/10/30 21:34

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L38	1410	37 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:34
L39	1381	38 not (14 or 21)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:35
L40	347	39 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or ((virtual or augment$4) near3 reality) or gaming or 3D or 3-D)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:36
L41	188	40 and (cable$2 or cord or wire or connector or multiconduct$5 or multi-conduct$5 or (multi$4 adj2 conduct$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:37
L42	63	41 and (plug$4 or receptacle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:38
L43	9	42 and (plug$4 and receptacle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:39
L44	54	42 not 43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:41
L45	1	(US-6824265-$).did.	USPAT	OR	ON	2014/10/31 01:05
L46	4	15 or 26 or 27 or 45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/31 01:05
L47	327074	((conduct$5 or (metal or metallic or metalic or metalized or metalization or	US-PGPUB; USPAT;	OR	ON	2014/10/31 01:17

		metalizing)) near4 (elast$8 or rubber$5)) or (conductive near6 polymer near6 metal$4 near6 ion)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
L48	2	46 and 47	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/31 01:17
L49	1	(US-4520238-$).did.	USPAT	OR	ON	2014/10/31 02:07
L50	1	(US-5455638-$).did.	USPAT	OR	ON	2014/10/31 02:07
L51	1	(US-20060132382-$).did.	US-PGPUB	OR	ON	2014/10/31 02:07
S1	4	"2009081542".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:09
S2	5	"2009126946".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:09
S3	5	"2010080999".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S4	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S5	2	"5463428".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S6	2	"5764338".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S7	0	"2008316420".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:14

S8	5	"2010080999".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:15
S9	5	"2009098719".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:15
S10	7	"2008002388".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:15
S11	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:15
S12	2	"20050237485".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:16
S13	2	"20050225723".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:16
S14	2	"6115177".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:17
S15	2	"5742379".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:17
S16	2	"6719425".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:17
S17	4	"4418990".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:18

S18	3	"4991951".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:19
S19	3	"2007258039".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:19
S20	5	"2930857".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:20
S21	5	"2007121061".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:20
S22	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:21
S23	62	S1 or S2 or S3 or S4 or S5 or S6 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 or S17 or S18 or S19 or S20 or S21 or S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:23
S24	1	"20080273166".pn.	US-PGPUB	OR	ON	2013/09/12 15:51
S25	3	S23 or S24	US-PGPUB	OR	ON	2013/09/12 16:05
S26	63	S23 or S24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:05
S27	16	S26 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or liquid or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:19
S28	0	("2008/0273166").URPN.	USPAT	OR	ON	2013/09/12 16:26

S29	15772	351/41-158.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:36
S30	7988	351/159.$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:36
S31	503	351/178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:37
S32	90	351/159.03.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:37
S33	17	351/159.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:37
S34	750	351/153.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:37
S35	23094	S29 or S30 or S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:38
S36	4948	S35 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:38
S37	267	G02C7/083.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:41
S38	504	G02C7/083.cpc. or G02C7/101.cpc.	US-PGPUB; USPAT;	OR	ON	2013/09/12 16:43

			USOCR; EPO; JPO; DERWENT; IBM_TDB			
S39	255	S38 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:43
S40	5032	S36 or S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:44
S41	2932767	glasses or eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:45
S42	4100	S40 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:46
S43	755	S42 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:47
S44	171	S43 and silicone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:48
S45	2	S44 and grease	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:49
S46	84	S44 and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:50
S47	1	S46 and grease	US-PGPUB; USPAT;	OR	ON	2013/09/12 16:51

			USOCR; EPO; JPO; DERWENT; IBM_TDB			
S48	1	S43 and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) and (silicone near6 grease)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:40
S49	1769	S41 and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) and (silicone near6 grease)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:41
S50	1	S43 and S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:41
S51	148	S49 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:41
S52	147	S51 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:42
S53	137	S52 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:43
S54	254107	(glasses or eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:43
S55	4	S53 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:43
S56	133	S53 not S55	US-PGPUB;	OR	ON	2013/09/12

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			18:45
S57	0	S56 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:46
S58	1556	(silicone near6 (paste or compound or oil or viscosity or lubrican$4 or grease)) and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:49
S59	97	(silicone near6 (paste or compound or oil or viscosity or lubrican$4 or grease)) same(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:49
S60	11	S59 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:50
S61	155	S58 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:56
S62	144	S61 not S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:56
S63	0	S62 and ((silicone near6 (paste or compound or grease)) same (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:57
S64	30	S62 and ((silicone near6 (paste or compound or grease)) and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:57
S65	1	S62 and ((silicone near6 (grease)) and (eyeglasses or eye-glasses or	US-PGPUB; USPAT;	OR	ON	2013/09/12 19:00

		(eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S66	165	S41 and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) near6 (silicone near6 grease))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:02
S67	2	S66 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:03
S68	49	(silicone near6 (paste or grease)) and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:05
S69	45	S68 not (S60 or S65 or S67)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:05
S70	2	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) near6 (silicone near6 grease))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:17
S71	3	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((conduct$6 or wire) near6 (silicone near6 grease))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:19
S72	11	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((conduct$6 or wire) and (silicone near6 grease)) and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:21
S73	65	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((conduct$6 or wire) and (silicone and grease)) and (insulat$5 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2013/09/12 19:21

		nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric)	IBM_TDB			
S74	54	S73 not S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:22
S75	107	S32 or S33	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:25
S76	38	S75 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:25
S77	0	S76 and (grease or paste)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:26
S78	38	S76 not S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:26
S79	2	"20100076553".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:36
S80	1	S79 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:36
S81	126	("20010043266" | "20050237485" | "20050264752" | "20070296918" | "7784935" | "20050270479" | "20060203186" | "20080106695" | "5764338" | "6626532" | "20050078274" | "4152846" | "4875030" | "4967268" | "5463428" | "20020140899" | "20050242771" | "20100177277" | "4418990" | "4907860" | "5835185" | "6336250" |	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 20:21

		"7063420" | "20070121061" | "20070258039" | "20080316420" | "4991258" | "5742379" | "5760869" | "6595634" | "6719425" | "6866386" | "7813048" | "20110058141" | "20040000733" | "20050270481" | "20100309426" | "4283127" | "4991951" | "7104645" | "7140727" | "20010007493" | "20060231158" | "6097450" | "7009757" | "7425066" | "2930857" | "20050225723" | "20060092340" | "20080273166" | "20100201938" | "4756605" | "5182585" | "5657107" | "6115177" | "6582075").PN.				
S82	5	"2006023158".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 20:45
S83	2	"20060231580".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 20:45
S84	2	"20060023158".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 20:46
S85	56	("20010043266" | "20050237485" | "20050264752" | "20070296918" | "7784935" | "20050270479" | "20060203186" | "20080106695" | "5764338" | "6626532" | "20050078274" | "4152846" | "4875030" | "4967268" | "5463428" | "20020140899" | "20050242771" | "20100177277" | "4418990" | "4907860" | "5835185" | "6336250" | "7063420" | "20070121061" | "20070258039" | "20080316420" | "4991258" | "5742379" | "5760869" | "6595634" | "6719425" | "6866386" | "7813048" | "20110058141" | "20040000733" | "20050270481" | "20100309426" | "4283127" | "4991951" | "7104645" | "7140727" | "20010007493" | "20060231158" | "6097450" | "7009757" | "7425066" | "2930857" | "20050225723" | "20060092340" | "20080273166" | "20100201938" | "4756605" | "5182585" | "5657107" | "6115177" | "6582075").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/09/12 21:15
S86	24469	conduct$5 adj2 rubber	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	2013/09/13 16:08

			DERWENT; IBM_TDB			
S87	15772	351/41-158.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S88	7988	351/159.$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S89	503	351/178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S90	23094	S87 or S88 or S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S91	22	S86 and S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S92	17	S91 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S93	7	S92 and (grease or paste)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:11
S94	10	S92 not S93	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:14
S95	5	S91 not S92	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:24

S96	68	S86 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:29
S97	34	S96 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:29
S98	21	S97 not S91	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:29
S99	1	(US-6772448-$).did.	USPAT	OR	ON	2013/09/13 16:45
S100	0	"2008273166".pn.	US-PGPUB	OR	ON	2013/09/13 17:20
S101	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:20
S102	1	"20080273166".pn.	US-PGPUB	OR	ON	2013/09/13 17:21
S103	0	"4991951".pn.	US-PGPUB	OR	ON	2013/09/13 17:21
S104	1	"4991951".pn.	USPAT	OR	ON	2013/09/13 17:22
S105	3	S99 or S102 or S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:22
S106	126	("20010043266" | "20050237485" | "20050264752" | "20070296918" | "7784935" | "20050270479" | "20060203186" | "20080106695" | "5764338" | "6626532" | "20050078274" | "4152846" | "4875030" | "4967268" | "5463428" | "20020140899" | "20050242771" | "20100177277" | "4418990" | "4907860" | "5835185" | "6336250" | "7063420" | "20070121061" | "20070258039" | "20080316420" | "4991258" | "5742379" | "5760869" | "6595634" | "6719425" | "6866386" | "7813048" | "20110058141" | "20040000733" | "20050270481" |	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:59

		"20100309426" | "4283127" | "4991951" | "7104645" | "7140727" | "20010007493" | "20060231158" | "6097450" | "7009757" | "7425066" | "2930857" | "20050225723" | "20060092340" | "20080273166" | "20100201938" | "4756605" | "5182585" | "5657107" | "6115177" | "6582075").PN.				
S107	2	S105 and S106	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:59
S108	69172	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses or lens) same (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:20
S109	2121	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) same (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:27
S110	1284	S109 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:42
S111	354	S110 and (grease or paste or silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:44
S112	749	S110 and (grease or paste or silicone or coating)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:45
S113	806	S110 and (grease or paste or silicone or coating or coated)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:45
S114	167	S113 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	2014/04/28 08:48

			DERWENT; IBM_TDB			
S115	116	S114 and (silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:51
S116	36	S115 and ((grease or paste or coating or coated) same silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:52
S117	80	S115 not S116	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 11:30
S118	51	S114 not S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 11:56
S119	14	S118 and gasket	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 11:56
S120	1	(US-5835185-$).did.	USPAT	OR	ON	2014/04/28 12:10
S121	3	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance) same (rimlock or rim-lock))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:17
S122	8	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance) and (rimlock or rim-lock))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:32
S123	5	S122 not S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:32
S124	694	351/86,154.ccls.	US-PGPUB;	OR	ON	2014/04/28

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			12:38
S125	79	S124 and (grease or paste or silicone or coating or coated)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:39
S126	20	S125 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:41
S127	12	S126 and (grease or paste or coating or coated)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:42
S128	8	S126 not S127	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:45
S129	2	S128 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:45
S130	59	S125 not S126	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:46
S131	19	S130 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:46
S132	20	S130 and (conduct$5 or wire or cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/04/28 12:47

			IBM_TDB			
S133	109	S124 and (conduct$5 or wire or cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:48
S134	87	S133 not S125	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:49
S135	87	S134 and (conduct$5 or wires or cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:49
S136	15	S135 and (conduct$5 or cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:49
S137	21	S124 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:53
S138	1	(US-7527374-$).did.	USPAT	OR	ON	2014/04/28 13:19
S139	154	S109 and ((grease or paste or coating or coated) same (silicone or (polymerized adj2 siloxanes) or polysiloxane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 13:23
S140	74	S109 and ((grease or paste or coating or coated) near5 (silicone or (polymerized adj2 siloxanes) or polysiloxane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 13:24
S141	61	S140 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 13:24
S142	1	(US-20100265456-$).did.	US-PGPUB	OR	ON	2014/04/28

						18:24
S143	14	("4285819" | "4612247" | "4681712" | "4798694" | "4868106" | "4935147" | "5076950" | "5279936" | "5283064" | "5319397" | "5536644" | "5642177" | "5770388").PN. OR ("6231703").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/04/28 21:04
S144	2	S143 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 21:05
S145	1	(US-6231703-$).did.	USPAT	OR	ON	2014/04/28 21:15
S146	1	(US-20100265456-$).did.	US-PGPUB	OR	ON	2014/04/28 21:16
S147	2	S145 or S146	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 21:16
S148	2	S147 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 21:16
S149	1	S148 and (grease or paste or gel or oil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 21:17
S150	1	(US-6231703-$).did.	USPAT	OR	ON	2014/04/29 10:14
S151	1	(US-20100265456-$).did.	US-PGPUB	OR	ON	2014/04/29 10:14
S152	2	S150 or S151	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 10:14
S153	2	S152 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 10:14
S154	1	S151 and (conduct$5 near rubber)	US-PGPUB; USPAT; USOCR;	OR	ON	2014/04/29 10:21

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S155	12	"2007329719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 14:42
S156	0	JP2008/003799	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:29
S157	0	JP20080003799	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:29
S158	8	"20080003799"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:29
S159	25	"2008003799"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:30
S160	0	WO2009081542	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:32
S161	9	"2009081542"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:32
S162	3985	(anisotropic and conduct$5 and rubber and (silicone or (polymerized adj2 siloxanes) or polysiloxane) and (grease or paste or gel or oil))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 18:59
S163	52	351/41-178.ccls. and S162	US-PGPUB;	OR	ON	2014/04/29

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			19:02
S164	1137	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near6 (grease or paste or gel or oil)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:05
S165	0	351/41-178.ccls. and S164	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:05
S166	1684	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or paste or gel or oil)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:06
S167	44	351/41-178.ccls. and S166	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:06
S168	13	S164 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:09
S169	80	S166 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:13
S170	67	S169 not S168	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:13
S171	1758	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/04/29 19:15

			IBM_TDB			
S172	67	S170 and S171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:15
S173	1137	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:20
S174	865	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:20
S175	6	((anisotropic near4 conduct$5 near4 rubber) and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:21
S176	0	S175 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:22
S177	8	((anisotropic near4 conduct$5 near4 rubber) and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:24
S178	2	S177 not S175	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:24
S179	1186	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:27
S180	27	S179 and anisotropic	US-PGPUB; USPAT; USOCR;	OR	ON	2014/04/29 19:27

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S181	477	S179 and (rubber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:28
S182	11	S179 and (conduct$5 near4 rubber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:28
S183	21	S180 not S182	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:33
S184	121	S179 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm. and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:37
S185	108	S179 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant))).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:38
S186	107	S185 not (S180 or S177 or S175 or S172 or S170)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:40
S187	666	S179 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:46
S188	8092	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) near6 (electronics or electrical or battery or batteries or circuit or microchip or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/04/29 19:47

		processor or antenna or computer$4 or signal)	IBM_TDB			
S189	52	S187 and S188	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:47
S190	163	351/159.39.ccls. or 351/159.4.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:55
S191	2	S179 and S190	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:55
S192	2	S190 and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:56
S193	52	S188 and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:57
S194	0	S193 not S189	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:57
S195	677	S179 and (connect or connected or connector or connecting or connection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 20:08
S196	48	S179 and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or paste or gel or oil or lubricant))) same (connect or connected or connector or connecting or connection)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 20:09
S197	972	S179 not (S180 or S182 or S183 or S186 or S189 or S191 or S192 or S193 or S196)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/04/29 20:17

			EPO; JPO; DERWENT; IBM_TDB			
S198	76	S197 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 20:18
S199	1	(US-4243306-$).did.	USPAT	OR	ON	2014/04/29 20:27
S200	3	(eyewire or eye-wire or (eye adj2 wire)) near4 (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 23:07
S201	15	(eyewire or eye-wire or (eye adj2 wire)) same (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 23:09
S202	12	S201 not S200	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 23:10
S203	17	(eyewire or eye-wire or (eye adj2 wire)) and (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:27
S204	35	(upper or lower or top or bottom or halves or half) same (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:27
S205	16	S203 and S204	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:28
S206	53305	(coat or coated or coating or film or dipped or dip or deposit or depositing or deposited or apply or applied or applying) same (insulating or insulated or insulation or nonconductive or non-conductive or nonconducting or non-conducting) same (frame or rim or eyewire or eye-wire or (eye adj2 wire))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:57
S207	1138	351/90-102.ccls.	US-PGPUB; USPAT; USOCR;	OR	ON	2014/04/30 09:59

			EPO; JPO; DERWENT; IBM_TDB			
S208	0	S206 and S207	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:59
S209	37998	S206 and ((split$4 or bisect$5 or dual or two or upper or lower) same (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:02
S210	16194	S209 and ((split$4 or bisect$5 or dual or two or upper or lower) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:02
S211	11719	S210 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:06
S212	10147	S209 and ((electronics or electrical or conduct$4 or current or circuit or node) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:09
S213	5051	S211 and ((electronics or electrical or conduct$4 or current or circuit or node) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:09
S214	39	S213 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:10
S215	1	(US-20100177277-$).did.	US-PGPUB	OR	ON	2014/04/30 10:29
S216	1	(US-20100177277-$).did.	US-PGPUB	OR	ON	2014/04/30 17:30
S217	1	(US-4243306-$).did.	USPAT	OR	ON	2014/04/30 17:31
S218	1	"20100265456".pn.	US-PGPUB	OR	ON	2014/04/30 17:31
S219	2	S216 or S217 or S218	US-PGPUB	OR	ON	2014/04/30 17:32
S220	3	S216 or S217 or S218	US-PGPUB; USPAT	OR	ON	2014/04/30 17:32

S221	697	G02C7/083.cpc. or G02C7/101.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 17:43
S222	697	S221	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 17:43
S223	214	S222 and ((electronics or electrical or conduct$4 or current or circuit or node) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 17:44
S224	2	S223 and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 17:44

10/31/2014 2:35:59 AM
C:\Users\goneill\Documents\EAST\Workspaces\13890809.wsp

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13890809	BLUM ET AL.
	Examiner	**Art Unit**
	GARY O'NEILL	2872

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	10/31/2014								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								

To: ipefiling@kilpatricktownsend.com,jlhice@kilpatrick.foundationip.com,
From: PAIR_eOfficeAction@uspto.gov
Cc: PAIR_eOfficeAction@uspto.gov
Subject: Private PAIR Correspondence Notification for Customer Number 72162

Nov 07, 2014 05:36:11 AM

Dear PAIR Customer:

KILPATRICK TOWNSEND & STOCKTON, LLP
Two Embarcadero Center
Eighth Floor
San Francisco, CA 94111-3834
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 72162 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

The official date of notification of the outgoing correspondence will be indicated on the form PTOL-90 accompanying the correspondence.

Disclaimer:
The list of documents shown below is provided as a courtesy and is not part of the official file wrapper. The content of the images shown in PAIR is the official record.

Application	Document	Mailroom Date	Attorney Docket No.
13890809	CTNF	11/07/2014	3373.1260000
	892	11/07/2014	3373.1260000

To view your correspondence online or update your email addresses, please visit us anytime at https://sportal.uspto.gov/secure/myportal/privatepair.

If you have any questions, please email the Electronic Business Center (EBC) at EBC@uspto.gov with 'e-Office Action' on the subject line or call 1-866-217-9197 during the following hours:

Monday - Friday 6:00 a.m. to 12:00 a.m.

Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION INFORMATION RETRIEVAL SYSTEM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No.: 9971
PIXELOPTICS, INC.	Art Unit: 2872
Appl. No.: 13/890,809	Examiner: O'NEILL, Gary William
Filed: May 9, 2013	Atty. Docket: 3585.1260000
For: **MOISTURE-RESISTANT EYE WEAR**	

Amendment and Reply Under 37 C.F.R. § 1.111

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

In reply to the Office Action dated November 7, 2014, Applicant submits the following Amendment and Remarks.

It is not believed that extensions of time are required beyond those that may otherwise be provided for in documents accompanying this paper. However, if additional extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned under 37 C.F.R. § 1.136(a), and any additional fees required to continue prosecution or appeal of this application (including issue fee, fees for net addition of claims or forwarding to appeal) are hereby authorized to be charged to our Deposit Account No. 19-0036.

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Original) An eyewear system comprising:

an electronics module comprising electronics for controlling an electrical functional member; and

at least one electrical connective element configured to connect the electronics of the electronics module and the electrical functional member,

wherein, at least one of the electrical connective element and the electronics module is sealed.

2. (Original) The eyewear system of claim 1:

further comprising at least one intermediate electrical contact,

wherein:

the electrical functional member comprises at least one electrical connector, and

the connective element connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member through the at least one intermediate electrical contact.

3. (Original) The eyewear system of claim 1, wherein the eyewear system is an eyewear frame.

4. (Original) The eyewear system of claim 1, wherein the eyewear system is electronic eyewear including a lens.

5. (Original) The eyewear system of claim 4, wherein the lens comprises the electrical functional member.

6. (Original) The eyewear system of claim 5, wherein the electronic functional member is configured to provide an optical function.

7. (Original) The eyewear system of claim 4, wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a virtual reality function, an augmented reality function, a gaming function, and an active 3D function.

8. (Original) The eyewear system of claim 1, further comprising the electrical functional member,

wherein:

the electrical functional member comprises at least one electrical connector, and

the connective element directly connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member.

9. (Currently Amended) The eyewear system of claim 2[[8]], wherein the intermediate electrical contact is located at one of: a rim of the eyewear, a surface of the electronic functional member, a frame front of the eyewear system, an electronic display, and an electronic controller.

10. (Original) The eyewear system of claim 1, wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a GPS, an alarm, a hearing aid, a virtual reality function, an augmented reality function, a gaming function, an audio output function, a microphone function, a recording function, a transmitter function, a pedometer, and an active 3D function.

11. (Original) The eyewear system of claim 1, wherein the electrical connective element is a conductive compressible member.

12. (Original) The eyewear system of claim 11, wherein the conductive compressible member is conductive rubber.

13. (Original) The eyewear system of claim 1, wherein the connective element comprises a multiconductor cable.

14. (New) The eyewear system of claim 1, wherein the electronics module is sealed.

15. (New) The eyewear system of claim 14, wherein the electronics module is sealed with a material selected from a group consisting of electrically-insulating grease, acrylic, silicone, urethane, and epoxy.

16. (New) The eyewear of claim 15, wherein the electronic module is sealed with a coating of the material over a portion of the electronics module.

17. (New) The eyewear of claim 15, wherein the electronics module is embedded in the material.

18. (New) The eyewear system of claim 1, wherein the electrical connective element is sealed.

Remarks

Reconsideration of this Application is respectfully requested. Upon entry of the foregoing amendment, claims 1–18 are pending in the application. Claim 1 is the independent claim. Claim 9 is amended. New claims 14–18 are added. These changes are believed to introduce no new matter, and their entry is respectfully requested.

Based on the above amendment and the following remarks, Applicant respectfully requests that the Office reconsider all outstanding rejections and that they be withdrawn.

Rejections under 35 U.S.C. § 112

Claim 9 is rejected under 35 U.S.C. § 112(b) as allegedly being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor regards as the invention. Specifically, the Office states that there is insufficient antecedent basis for "the intermediate electrical contact" in claim 9.

Claim 9 is amended to depend from claim 2. Claim 2 provides antecedent basis for "the intermediate electrical contact." Accordingly, Applicant respectfully requests that the Office reconsider and withdraw the § 112 rejection of claim 9.

Rejections under 35 U.S.C. § 102

Claims 1–11 and 13 are patentable over Jannard because Jannard does not disclose "sealed" as claimed.

Claims 1–11 and 13 are rejected under 35 U.S.C. § 102 (a)(1) as allegedly being anticipated by U.S. Publication No. 2006/0132382 to Jannard. Applicant traverses.

Claim 1 recites "at least one of the electrical connective element and the electronics module is sealed." It appears that the Office alleges that Jannard is "sealed" because of cover members 292 and 262. (*See* Office Action, p. 3).

But, cover members 292 and 262 do not provide a "seal" as recited in the claim. "Sealed" as used in this instant application, requires that the sealed object is moisture resistant or moisture proof. For example, the application states that the electronic modules are "*sealed* such that they

are water *resistant* or water *proof*." (Application-as-filed, ¶ [0022]). Additionally, the application describes that components "can be *sealed*...so as to inhibit undesirable effects of liquid and moisture on the electronics therein." (*Id.* at ¶ [0103]). Thus, "sealed", read in light of the specification, requires that the sealed object is moisture resistant or moisture proof.

The application discusses having a seal in the claimed electronic eyewear. "Electro-active eyewear...may be exposed to moisture and liquids. Such moisture may come from the natural environment (e.g., rain, snow), from the human body in the form of oils and perspiration, and from consumer products such as liquid lens cleaners and cosmetics. The ingress of such materials into and between the electronic components of the eyewear can cause damage, e.g. electrical short circuits." (*Id.* at ¶ [0084]). "If the moisture is perspiration, then over time the accumulation of salts and oils due to repeated exposure can result in permanent electrical shorts and/or make the frame even more susceptible to other forms of moisture." (*Id.* at ¶ [0085]). Perspiration can also break down the material of the lens and physically compliant conductive materials both "physically and chemically." (*Id.* at ¶ [0086]). Sealed electronic components prevent these types of problems from occurring.

The application provides non-limiting examples of moisture resistant seals. For example, "water repellent material" such as "electrically-insulating greases" can be used "to inhibit moisture and liquids from filling spaces between components of electro-active eyewear." (*Id.* at ¶ [0089]). The electronic components may also be coated with a suitable material "comprising...acrylic, urethane, silicone, or epoxy." (*Id.* at ¶ [0150]). Additionally, the component may be "embedded and surrounded by insulating material" such as through "injection" of the material. (*See id.* at ¶¶ [0096], [0143]).

The application also provides examples of structures that do not seal. One example is a structure made of separate mechanical parts simply attached together, without additional sealing, such as in a multi-component rimlock. (*Id.* at ¶ [0084]). This structure does not "seal" the electronic components in the rimlock because it still allows moisture to be wicked into the internal space of the component. (*See id.*). In order to "seal" the rimlock, something else must be done to the rimlock besides merely attaching the separate parts together. Without the seal, the rimlock is still susceptible to moisture. (*See* Application-as-published, ¶¶ [0086]–[0089]).

The covers 292 and 262 of Jannard are similar to the rimlock discussed in the application. The covers are mechanical parts that are separate from the main body of Jannard's eyewear. (*See* Jannard, FIG. 3J). They attach to the main body through a fastener. (*Id.* at ¶ [0129]). Jannard does not teach or suggest any additional sealing feature or structure to keep out moisture. Thus, similar to the rimlock described in the present application, the covers of Jannard do not provide a seal as recited in the claims.

Accordingly, claim 1 is patentable over Jannard. Claims 2–11 and 13 depend from and add to the features of claim 1. They are patentable over Jannard for at least the same reasons. Accordingly, Applicant respectfully requests that the Office reconsider and withdraw the § 102 rejection of claims 1–11 and 13.

Rejections under 35 U.S.C. § 103

Claim 12 is rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Jannard, as applied to claim 11 above, and further in view of U.S. Patent No. 5,455,638 to Kallman *et al.*

Claim 12 depends from and adds to the features of claim 1. As discussed above, Jannard is deficient with respect to claim 1. Kallman does not cure these deficiencies. Thus, claim 12 is patentable over the cited references for at least the same reason as claim 1. Applicant respectfully requests that the Office reconsider and withdraw the § 103 rejection of claim 12.

New Claims 14–18

Claims 14–18 depend from and add to the features of claim 1. They are patentable for at least the same reasons as claim 1. Additionally, claims 14–18 further claim specific sealing features. These features are not disclosed by Jannard. Thus, Applicant submits that claims 14–18 are allowable over Jannard.

Conclusion

All of the stated grounds of rejection have been properly traversed. Applicant therefore respectfully requests that the Office reconsider all presently outstanding rejections and that they be withdrawn. Applicant believes that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Office believes, for any reason, that personal communication will expedite prosecution of this application, the Office is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment and Reply is respectfully requested.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

John P. McGroarty
Attorney for Applicant
Registration No. 41,186

Date: 5/6/2015

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

1943448_1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No.: 9971
MITSUI CHEMICALS, INC.	Art Unit: 2872
Appl. No.: 13/890,809	Examiner: O'NEILL, Gary William
Filed: May 9, 2013	Atty. Docket: 3585.1260000
For: **MOISTURE-RESISTANT EYE WEAR**	

Request to Change the Applicant Under 37 C.F.R. § 1.46(c) After an Original Applicant has been Specified

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Applicant hereby requests that the United States Patent and Trademark Office change the applicant under 37 C.F.R. § 1.46(c) after an original applicant has been specified in the above-captioned patent application. Specifically, Applicant hereby requests that the Office change the applicant from PIXELOPTICS, INC. to MITSUI CHEMICALS, INC.. This request is accompanied by:

(1) A signed Application Data Sheet specifying the applicant, MITSUI CHEMICALS, INC., in the Applicant Information section;

(2) Power of Attorney to Prosecute Applications Before the USPTO (PTO/AIA/80); and

(3) Statement Under 37 C.F.R. 3.73(c) (PTO/AIA/96).

Prompt and favorable consideration of this request is respectfully requested. Applicant hereby authorizes the U.S. Patent and Trademark Office to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

John P. McGroarty
Attorney for Applicant
Registration No. 41,186

Date: 5/6/2015

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

1997918_1

PTO/AIA/14 (03-13)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809

Title of Invention	MOISTURE RESISTANT EYE WEAR

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2

	Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information

Inventor 1				
Legal Name				
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	Ronald	D.	Blum	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:			
Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 2				
Legal Name				
Prefix	**Given Name**	**Middle Name**	**Family Name**	**Suffix**
	William		Kokonaski	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Gig Harbor	State/Province	Washington	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 3

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Claudio		Dalla Longa	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 4

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Mark		Graham	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 5

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Joshua		Haddock	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 6

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Charles		Willey	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 7

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Tiziano		Tabacchi	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 8

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Martin		Boch	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-867754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 9

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Massimo		Pinazza	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 10

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Scott	N.	Richman	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-867754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Inventor 11

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Volkan		Ozguz	

Residence Information (Select One)	[X] US Residency	[ ] Non US Residency	[ ] Active US military Service

City	Roanoke	State/Province	Virginia	Country of Residence	United States

Mailing Address of Inventor:

Address 1	5241 Valleypark Drive		
Address 2			
City	Roanoke	State/Province	Virginia
Postal Code	24019	Country	United States

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

[ ] **An Address is being provided for the correspondence Information of this application**

Customer Number	~~72162~~ 115626
Email Address	~~ipefiling@kilpatricktownsend.com~~

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Application Information:

Title of Invention	HIGHLY MOISTURE RESISTANT ELECTRONIC EYEGLASS FRAME - COMBINED FILING			
Attorney Docket Number	~~91904-857754~~ 3585.1260000	**Small Entity Status Claimed** ☐		
Application Type	NonProvisional			
Subject Matter	Utility			
	Total Number of Drawing Sheets (if any)	26	**Selected Figure for Publication (if any)**	

Publication Information:

	Request Early Publication (Fee required at time of Request 37 CFR 1.219)
	Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the Customer Number will be used for the Representative Information during processing.

Please Select One:	[X] Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	~~72162~~ 115626		

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~94994-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status			
Application Number	**Continuity Type**	**Prior Application Number**	**Filing Date**
This Application	Continuation in Part of	13/587,645	August 16, 2012
13/587,645	Non-Provisional of	61/563,937	November 28, 2011
13/587,645	Non-Provisional of	61/537,205	September 21, 2011
13/587,645	Non-Provisional of	61/524,567	August 17, 2011
13/587,645	Continuation in Part of	13/372,240	February 13, 2012
This Application	Continuation in Part of	13/726,267	December 24, 2012
13/726,267	Non-Provisional of	60/978,517	October 9, 2007
13/726,267	Non-Provisional of	60/929,991	July 20, 2007
13/726,267	Non-Provisional of	60/929,419	June 26, 2007
13/726,267	Non-Provisional of	60/924,225	May 4, 2007
13/726,267	Continuation of	12/834,526	July 12, 2010
13/726,267	Continuation of	12/054,299	March 24, 2008
This Application	Continuation in Part of	13/372,240	February 13, 2012
13/372,240	Non-Provisional of	61/441,817	February 11, 2011
This Application	Continuation in part of	13/169,996	June 27, 2011
13/169,996	Non-Provisional of	61/382,963	September 15, 2010
13/169,996	Non-Provisional of	61/366,746	July 22, 2010
13/169,996	Non-Provisional of	61/358,447	June 25, 2010
13/169,996	Non-Provisional of	61/326,703	April 22, 2010

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

13/169,996	Non-Provisional of	61/317,100	March 24, 2010
13/169,996	Continuation in Part of	PCT/US2011/029419	March 22, 2011
This Application	Continuation in Part of	12/834,526	July 12, 2010
12/834,526	Non-Provisional of	60/978,517	October 9, 2007
12/834,526	Non-Provisional of	60/929,991	July 20, 2007
12/834,526	Non-Provisional of	60/929,419	June 26, 2007
12/834,526	Non-Provisional of	60/924,225	May 4, 2007
12/834,526	Continuation of	12,054,299	March 24, 2008
This Application	Continuation in Part of	13/298,997	November 17, 2011
13/298,997	Non-Provisional of	61/481,353	May 2, 2011
13/298,997	Non-Provisional of	61/415,391	November 19, 2010
13/298,997	Non-Provisional of	61/376,719	August 25, 2010
13/298,997	Non-Provisional of	61/362,877	July 9, 2010
13/298,997	Non-Provisional of	61/361,110	July 2, 2010
13/298,992	Continuation in Part of	13/179,219	July 8, 2011
13/298,992	Continuation in Part of	13/175,633	July 1, 2011
13/298,992	Continuation in Part of	13/175,634	July 1, 2011
This Application	Continuation in Part of	13/298,992	November 17, 2011
13/298,992	Non-Provisional of	61/481,353	May 2, 2011
13/298,992	Non-Provisional of	61/415,391	November 19, 2010
13/298,992	Non-Provisional of	61/376,719	August 25, 2010
13/298,992	Non-Provisional of	61/362,877	July 9, 2010
13/298,992	Non-Provisional of	61/361,110	July 2, 2010
This Application	Continuation in Part of	13/866,575	April 19, 2013

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

13/866,575	Non-Provisional of	61/638,290	April 25, 2012

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(a). When priority is claimed to a foreign application this is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectualy property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country	Filing Date	Access Code (if applicable)

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☒ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

[X] Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded by the Office.

Applicant 1

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor
☐ Person to whom the inventor is obligated to assign	☐ Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:	

If the Assignee is an Organization check here. ☒

Organization Name:	~~PixelOptics, Inc.~~ MITSUI CHEMICALS, INC.		
Mailing Address Information:			
Address 1	~~5241 Valleypark Drive~~ Shiodome City Center 1-5-2		
Address 2	Higashi-Shimbashi, Minato-ku		
City	~~Roanoke~~ Tokyo	State/Province	~~Virginia~~
Country ~~United States~~ JAPAN		Postal Code	~~24019~~ 105-7117
Phone Number		Fax Number	
Email Address			

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-867754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of the CFR to have an assignment recorded by the Office.

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

If the Assignee is an Organization check here. ☐

Organization Name			
Mailing Address Information for Non-Applicant Assignee:			
Address 1			
Address 2			
City		State/Province	
Country		Postal Code	
Phone Number		Fax Number	
Email Address			

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.14 for signature requirements and certifications.

Signature	John McGroarty			Date	5/6/2015
First Name	John	Last Name	McGroarty	Registration Number	41176

PTO/AIA/14 (08-12)
Approved for use through 01/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	~~91904-857754~~ 3585.1260000
	Application Number	~~TBA~~ 13/890,809
Title of Invention	MOISTURE RESISTANT EYE WEAR	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

[X] Practitioners associated with Customer Number: **115626**

OR

[ ] Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

[X] The address associated with Customer Number: **115626**

OR

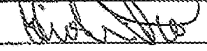
[ ]	Firm or individual Name			
	Address			
	City		State	Zip
	Country			
	Telephone		Email	

Assignee Name and Address:

Mitsui Chemicals, Inc.
5-2, Higashi-Shimbashi 1-chome, Minato-ku, Tokyo 105-7117

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record
The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	Oct/10/2014
Name	Hiroshi Ito	Telephone	+81-3-6253-2330
Title	General Manager Intellectual Property Division		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

Atty. Docket No. 3585.1260000

Applicant/Patent Owner: MITSUI CHEMICALS, INC.

Application No./Patent No.: 13/890,809 Filed/Issue Date: May 9, 2013

Titled: MOISTURE-RESISTANT EYE WEAR

MITSUI CHEMICALS, INC., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. [X] The assignee of the entire right, title, and interest.

2. [ ] An assignee of less than the entire right, title, and interest (check applicable box):

   [ ] The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   [ ] There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. [ ] The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. [ ] The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: See 1 in Addendum To: PIXELOPTICS, INC.

   The document was recorded in the United States Patent and Trademark Office at

   Reel 035158, Frame 0388, or for which a copy thereof is attached.

2. From: PIXELOPTICS, INC. To: HPO ASSETS LLC

   The document was recorded in the United States Patent and Trademark Office at

   Reel 035159, Frame 0134, or for which a copy thereof is attached.

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/96 (08-12)
Approved for use through 01/31/2013. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(c)

3. From: See 2 in Addendum To: HPO ASSETS LLC

The document was recorded in the United States Patent and Trademark Office at
Reel 035158, Frame 0608, or for which a copy thereof is attached.

4. From: HPO ASSETS LLC To: MITSUI CHEMICALS, INC.

The document was recorded in the United States Patent and Trademark Office at
Reel 035159, Frame 0209, or for which a copy thereof is attached.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☒ As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature	Date: 5/6/2015
John P. McGroarty Attorney for Applicant	41,186
Printed or Typed Name	Title or Registration Number

1997915

Addendum

1. BLUM, Ronald D.; KOKONASKI, William; HADDOCK, Joshua; WILLEY, Charles; TABACCHI, Tiziano; BOCH, Martin; PINAZZA, Massimo
2. DALLA LONGA, Claudio; GRAHAM, Mark; RICHMAN, Scott N.; OZGUZ, Volkan

Electronic Patent Application Fee Transmittal	
Application Number:	13890809
Filing Date:	09-May-2013
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Filer:	John P. McGroarty/Jeanette Yando
Attorney Docket Number:	3373.1260000
Filed as Large Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension - 3 months with $0 paid	1253	1	1400	1400
Miscellaneous:				
		Total in USD ($)		**1400**

Electronic Acknowledgement Receipt	
EFS ID:	22272306
Application Number:	13890809
International Application Number:	
Confirmation Number:	9971
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Customer Number:	72162
Filer:	John P. McGroarty/Jeanette Yando
Filer Authorized By:	John P. McGroarty
Attorney Docket Number:	3373.1260000
Receipt Date:	06-MAY-2015
Filing Date:	09-MAY-2013
Time Stamp:	16:36:18
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$1400
RAM confirmation Number	12169
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		35851260000-Filing.pdf	20395603 10b85b23a75fdf7b03585550b7934a0dcbd402dc	yes	29

Multipart Description/PDF files in .zip description

Document Description	Start	End
Transmittal Letter	1	1
Extension of Time	2	2
Amendment/Req. Reconsideration-After Non-Final Reject	3	3
Claims	4	6
Applicant Arguments/Remarks Made in an Amendment	7	10
Miscellaneous Incoming Letter	11	12
Application Data Sheet	13	25
Power of Attorney	26	26
Assignee showing of ownership per 37 CFR 3.73	27	29

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30968 61cf6494e3c781da368f6facdeac3c9ae9805ce3	no	2

Warnings:

Information:

Total Files Size (in bytes):	20426571

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: TRAN.LET
Document Description: Transmittal Letter

PTO/SB/21 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

ENCLOSURES *(Check all that apply)*

- [ ] Fee Transmittal Form
- [X] Fee Attached
- [X] Amendment/Reply
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [X] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement
- [ ] Certified Copy of Priority Document(s)
- [ ] Reply to Missing Parts/ Incomplete Application
  - [ ] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [ ] Drawing(s)
- [ ] Licensing-related Papers
- [ ] Petition
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation
- [ ] Change of Correspondence Address
- [ ] Terminal Disclaimer
- [ ] Request for Refund
- [ ] CD, Number of CD(s) _____
  - [ ] Landscape Table on CD
- [ ] After Allowance Communication to TC
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [ ] Proprietary Information
- [ ] Status Letter
- [X] Other Enclosure(s) (please identify below):

Remarks

$1,400.00 Three (3) Month Extension of Time Fee;
Request to Change the Applicant Under 37 C.F.R. 1.46(c) After an Original Applicant has been Specified;
Marked-Up Application Data Sheet;
Power of Attorney to Prosecute Applicants Before the USPTO (PTO/AIA/80); and
Statement Under 37 C.F.R. 3.73(c) (PTO/AIA/96).

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.		
Signature	/John P. McGroarty/		
Printed name	John P. McGroarty		
Date	5/6/2015	Reg. No.	41,186

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

1997948

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/22 (03-13)
Approved for use through 7/31/2016. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)

Docket Number (Optional): 3585.1260000

Application Number	Filed
13/890,809	May 9, 2013

For: MOISTURE-RESISTANT EYE WEAR

Art Unit	Examiner
2872	O'NEILL, Gary William

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.

The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):

		Fee	Small Entity Fee	Micro Entity Fee	
☐	One month (37 CFR 1.17(a)(1))	$200	$100	$50	$
☐	Two months (37 CFR 1.17(a)(2))	$600	$300	$150	$
☒	Three months (37 CFR 1.17(a)(3))	$1,400	$700	$350	$ 1,400.00
☐	Four months (37 CFR 1.17(a)(4))	$2,200	$1,100	$550	$
☐	Five months (37 CFR 1.17(a)(5))	$3,000	$1,500	$750	$

☐ Applicant asserts small entity status. See 37 CFR 1.27.

☐ Applicant certifies micro entity status. See 37 CFR 1.29.
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 19-0036.

☒ Payment made via EFS-Web.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ applicant.

☐ attorney or agent of record. Registration number _____.

☒ attorney or agent acting under 37 CFR 1.34. Registration number 41,186.

Signature	Date
	5/6/2015

Typed or printed name	Telephone Number
John P. McGroarty	(202) 371-2600

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☒ * Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

1997906

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
13/890,809	05/09/2013	Ronald D. Blum	3373.1260000

CONFIRMATION NO. 9971

115626
Sterne, Kessler, Goldstein & Fox P.L.L.C.
1100 New York Avenue NW
Washington, DC 20005

POA ACCEPTANCE LETTER

OC000000075058734

Date Mailed: 05/08/2015

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 05/06/2015.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

/yteferra/

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
13/890,809	05/09/2013	2872	1740	3585.1260000	13	1

CONFIRMATION NO. 9971

REPLACEMENT FILING RECEIPT

115626
Sterne, Kessler, Goldstein & Fox P.L.L.C.
1100 New York Avenue NW
Washington, DC 20005

OC000000075058886

Date Mailed: 05/08/2015

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Ronald D. Blum, Roanoke, VA;
William Kokonaski, Gig Harbor, WA;
Claudio Dalla Longa, Roanoke, VA;
Mark Graham, Roanoke, VA;
Joshua Haddock, Roanoke, VA;
Charles Willey, Roanoke, VA;
Tiziano Tabacchi, Roanoke, VA;
Martin Bock, Roanoke, VA;
Massimo Pinazza, Roanoke, VA;
Scott N. Richman, Roanoke, VA;
Volkan Ozguz, roanoke, VA;

Applicant(s)

MITSUI CHEMICALS, INC., Tokyo, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 115626

Domestic Priority data as claimed by applicant

This application is a CIP of 13/587,645 08/16/2012
which claims benefit of 61/563,937 11/28/2011
and claims benefit of 61/537,205 09/21/2011
and claims benefit of 61/524,567 08/17/2011
and is a CIP of 13/372,240 02/13/2012 PAT 8801174
This application 13/890,809
is a CIP of 13/726,267 12/24/2012 PAT 8708483
which is a CON of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN

This application 13/890,809
is a CIP of 13/372,240 02/13/2012 PAT 8801174
which claims benefit of 61/441,817 02/11/2011
This application 13/890,809
is a CIP of 13/169,996 06/27/2011 ABN
which claims benefit of 61/382,963 09/15/2010
and claims benefit of 61/366,746 07/22/2010
and claims benefit of 61/358,447 06/25/2010
and is a CIP of PCT/US2011/029419 03/22/2011
This application 13/890,809
is a CIP of 12/834,526 07/12/2010 PAT 8337014
which is a CON of 12/054,299 03/24/2008 ABN
This application 13/890,809
is a CIP of 13/298,997 11/17/2011 PAT 8944590
which claims benefit of 61/481,353 05/02/2011
and claims benefit of 61/541,391 09/30/2011 ABN

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access - A proper **Authorization to Permit Access to Application by Participating Offices** (PTO/SB/39 or its equivalent) has been received by the USPTO.

If Required, Foreign Filing License Granted: 06/11/2013
The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 13/890,809**
Projected Publication Date: Not Applicable
Non-Publication Request: No
Early Publication Request: No
Title

MOISTURE-RESISTANT EYE WEAR

Preliminary Class

351

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: Yes

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit http://www.SelectUSA.gov or call +1-202-482-6800.

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 13/890,809	Filing Date 05/09/2013	☐ To be Mailed

ENTITY: ☒ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 05/06/2015

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 18	Minus	** 20	= 0	X $80 =	0
Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X $420 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/SHARON HARRIS/

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 17

Complete if Known	
Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US1	2,437,642	03-09-1948	Henroleau	
	US2	2,576,581	11-27-1951	Edwards	
	US3	2,930,857	03-29-1960	Hollingsworth	
	US4	3,161,718	12-15-1964	De Luca	
	US5	3,245,315	04-12-1966	Marks et al.	
	US6	3,309,162	03-14-1967	Kosanke et al.	
	US7	3,614,215	10-19-1971	Mackta	
	US8	3,738,734	06-12-1973	Tait et al.	
	US9	3,791,719	02-12-1974	Kratzer et al.	
	US10	4,062,629	12-13-1977	Winthrop	
	US11	4,152,846	05-08-1979	Witt	
	US12	4,174,156	11-13-1979	Glorieux	
	US13	4,181,408	01-01-1980	Senders	
	US14	4,190,330	02-26-1980	Berreman	
	US15	4,243,306	01-06-1981	Bononi	
	US16	4,264,154	04-28-1981	Petersen	
	US17	4,279,474	07-21-1981	Belgorod	
	US18	4,283,127	08-11-1981	Rosenwinket et al.	
	US19	4,300,818	11-17-1981	Schachar	
	US20	4,320,939	03-23-1982	Mueller	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP1	DE 2304134	08-30-1973	Gould Inc.		X
	FP2	GB 1563929	04-02-1980	American Cyanamid Co		
	FP3	JP 55-076323	06-09-1980	Tomita		
	FP4	EP 0 027 339	04-22-1981	Wiseman Ltd. UK		
	FP5	EP 0061002	09-29-1982	Desil SPA Occhialeria		
	FP6	EP 0154962	09-18-1985	Shimada et al.		
	FP7	JP 61156227	07-15-1986	Olympus Optical Co., Ltd.		
	FP8	GB 2170613	08-06-1986	Olympus Optical Co., Ltd.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	2	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US21	4,373,218	02-15-1983	Schachar	
	US22	4,395,736	07-26-1983	Fraleux	
	US23	4,418,990	12-06-1983	Gerber	
	US24	4,423,929	01-03-1984	Gomi	
	US25	4,431,262	02-14-1984	Tolies	
	US26	4,457,585	07-03-1984	DuCorday	
	US27	4,461,550	07-24-1984	Legendre	
	US28	4,466,703	08-21-1984	Nishimoto	
	US29	4,466,706	08-21-1984	Lamothe, II	
	US30	4,529,268	07-16-1985	Brown	
	US31	4,537,479	08-27-1985	Shinohara et al.	
	US32	4,564,267	01-14-1986	Nishimoto	
	US33	4,572,616	02-25-1986	Kowel et al.	
	US34	4,577,928	03-25-1986	Brown	
	US35	4,601,545	07-22-1986	Kern	
	US36	4,609,824	09-02-1986	Munier et al.	
	US37	4,712,870	12-15-1987	Robinson et al.	
	US38	4,756,605	07-12-1988	Okada et al.	
	US39	4,772,094	09-20-1988	Sheiman	
	US40	D298,250 S	10-25-1988	Kildall	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP9	JP 61177429	08-09-1986	Olympus Optical Co., Ltd.		
	FP10	EP 0 225 034	06-10-1987	Ewer		
	FP11	GB 2169417	07-09-1987	Okada et al.		
	FP12	EP 0233104	08-19-1987	Arques		
	FP13	EP 0237365	09-16-1987	Arques		
	FP14	EP 0 308 705	03-29-1989	Allergan Inc.		
	FP15	JP 1 237610	09-22-1989	Yasunobu		
	FP16	WO 92/01417	02-06-1992	Horowitz		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 3 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US41	4,787,733	11-29-1988	Silva	
	US42	4,787,903	11-29-1988	Grendahl	
	US43	4,795,248	01-03-1989	Okada et al.	
	US44	4,813,777	03-21-1989	Rainville et al.	
	US45	4,818,095	04-04-1989	Takeuchi	
	US46	4,836,652	06-06-1989	Oishi et al.	
	US47	4,842,400	06-27-1989	Klein	
	US48	4,875,030	10-17-1989	Chiu	
	US49	4,880,300	11-14-1989	Payner et al.	
	US50	4,890,903	01-02-1990	Treisman et al.	
	US51	4,904,063	02-27-1990	Okada et al.	
	US52	4,907,860	03-13-1990	Noble	
	US53	4,909,626	03-20-1990	Purvis et al.	
	US54	4,919,520	04-24-1990	Okada et al.	
	US55	4,921,728	05-01-1990	Takiguchi	
	US56	4,927,241	05-22-1990	Kuijk	
	US57	4,929,865	05-29-1990	Blum et al.	
	US58	4,930,884	06-05-1990	Tichenor et al.	
	US59	4,944,584	07-31-1990	Maeda et al.	
	US60	4,945,242	07-31-1990	Berger et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP17	JP 05-100201	04-23-1993	Yokoyama et al.		
	FP18	DE 4223395	01-13-1994	Grimm et al.		
	FP19	EP 0 578 833	01-19-1994	Seiko Epson Corp		
	FP20	EP 0 649 044	04-19-1995	Citizen Watch Co. Ltd.		
	FP21	WO 98/27863	07-02-1998	Williams et al.		
	FP22	JP 11352445	12-09-1998	Nishioka		
	FP23	WO 99/21400	04-29-1999	Technische Universiteit Delft		
	FP24	WO 99/27334	06-03-1999	Frey et al.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	4	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US61	4,952,788	08-28-1990	Berger et al.	
	US62	4,955,712	09-11-1990	Barth et al.	
	US63	4,958,907	09-25-1990	Davis	
	US64	4,961,639	10-09-1990	Lazarus	
	US65	4,967,268	10-30-1990	Lipton et al.	
	US66	4,968,127	11-06-1990	Russell et al.	
	US67	4,981,342	01-01-1991	Fiala	
	US68	4,991,258	02-12-1991	Drlik	
	US69	4,991,951	02-12-1991	Mizuno et al.	
	US70	5,015,086	05-14-1991	Okaue et al.	
	US71	5,030,882	07-09-1991	Solero	
	US72	5,050,981	09-24-1991	Roffman	
	US73	5,066,301	11-19-1991	Wiley	
	US74	5,067,795	11-26-1991	Senatore	
	US75	5,073,021	12-17-1991	Marron	
	US76	5,076,665	12-31-1991	Petersen	
	US77	5,089,023	02-18-1992	Swanson	
	US78	5,091,801	02-25-1992	Ebstein	
	US79	5,108,169	04-28-1992	Mandell	
	US80	5,114,218	05-01-1992	Black et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP25	WO 1999041624	08-19-1999	Bonds		
	FP26	WO 01/02895	01-11-2001	E-Vision, LLC		
	FP27	WO 01/35159	05-17-2001	PPG Ind Ohio Inc		
	FP28	WO 2001075510	10-11-2001	Silver		
	FP29	CN ROC89113088	10-21-2001	Blum et al.		
	FP30	WO 03/050472	06-19-2003	Horowitz		
	FP31	WO 03/068059	08-21-2003	Lai et al.		
	FP32	WO 04/008189	01-22-2004	Lai et al.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 5 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US81	5,114,628	05-19-1992	Hofer et al.	
	US82	5,130,856	07-14-1992	Tichenor et al.	
	US83	5,142,411	08-25-1992	Fiala	
	US84	5,150,234	09-22-1992	Takahashi et al.	
	US85	5,171,266	12-15-1992	Wiley et al.	
	US86	5,182,585	01-26-1993	Stoner	
	US87	5,184,156	02-02-1993	Black et al.	
	US88	5,200,859	04-06-1993	Payner et al.	
	US89	RE34,251	05-01-1993	Achatz et al.	
	US90	5,208,688	05-04-1993	Fergason et al.	
	US91	5,229,797	07-20-1993	Futhey et al.	
	US92	5,229,885	07-20-1993	Quaglia	
	US93	5,231,430	07-27-1993	Kohayakawa	
	US94	5,239,412	08-24-1993	Naka et al.	
	US95	D342,063 S	12-07-1993	Howitt et al.	
	US96	5,305,028	04-19-1994	Okano	
	US97	5,306,926	04-26-1994	Yonemoto	
	US98	5,319,397	06-01-1994	Ryden	
	US99	5,324,930	06-28-1994	Jech, Jr.	
	US100	D350,342 S	09-06-1994	Sack	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Figures Appear	T[6]
	FP33	WO 04/015481	02-19-2004	Dreher et al.		
	FP34	WO 2004/028203	04-01-2004	Stichting Voor De Technische Wetenschappen		
	FP35	WO 04/034095	04-22-2004	Lai		
	FP36	WO 04/072687	08-26-2004	Blum et al.		
	FP37	WO 2005/016057 A1	02-24-2005	Lewis et al.		
	FP38	EP 1647854	04-19-2006	Sunshine Optical Company		
	FP39	WO 2006/086155 A2	08-17-2006	Colgate-Palmolive Company		
	FP40	EP 1727393	11-29-2006	Varibel BV.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	6	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US101	5,352,886	10-04-1994	Kane	
	US102	5,359,444	10-25-1994	Piosenka et al.	
	US103	5,375,006	12-20-1994	Haas	
	US104	5,382,986	01-17-1995	Black et al.	
	US105	5,386,308	01-31-1995	Michel et al.	
	US106	5,739,959	04-14-1995	Quaglia	
	US107	5,424,927	06-13-1995	Schaller et al.	
	US108	5,774,273	06-30-1995	Bornhorst	
	US109	5,440,357	08-08-1995	Quaglia	
	US110	5,443,506	08-22-1995	Garabet	
	US111	5,451,766	09-19-1995	Van Berkel	
	US112	5,455,638	10-03-1995	Kallman et al.	
	US113	5,463,428	10-31-1995	Lipton et al.	
	US114	5,488,439	01-30-1996	Weltmann	
	US115	5,489,302	02-06-1996	Skottun	
	US116	5,522,323	06-04-1996	Richard	
	US117	5,526,067	06-11-1996	Cronin et al.	
	US118	5,552,841	09-03-1996	Gallorini et al.	
	US119	5,608,567	03-04-1997	Grupp	
	US120	5,615,588	04-01-1997	Gottschald	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Figures Appear	T[6]
	FP41	WO 2006/126881 A2	11-30-2006	Varibel BV		
	FP42	WO 2006/1235960	12-28-2006	Global Bionic Optics		
	FP43	WO 2007/142520	12-13-2007	Varibel BV.		
	FP44	WO 2007142602	12-13-2007	Agency for Science, Technology and Research		
	FP45	WO 2008/002388	01-03-2008	PixelOptics Inc.		
	FP46	WO 2008024071	02-28-2008	Agency for Science, Technology and Research		
	FP47	JP 2008/083299	04-10-2008	Biito KK		X
	FP48	WO 2008/045283	04-17-2008	Lane Res LLC		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	7	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US121	5,654,789	08-05-1997	Bylander	
	US122	5,657,107	08-12-1997	Wagner et al.	
	US123	5,668,620	09-16-1997	Kurtin et al.	
	US124	5,682,223	10-28-1997	Menezes et al.	
	US125	5,683,457	11-04-1997	Gupta et al.	
	US126	5,684,637	11-04-1997	Floyd	
	US127	RE35,691	12-16-1997	Theirl et al.	
	US128	5,710,615	01-20-1998	Kitani	
	US129	5,712,721	01-27-1998	Large	
	US130	5,728,155	03-17-1998	Anello et al.	
	US131	5,739,959	04-14-1998	Quaglia	
	US132	5,742,379	04-21-1998	Reifer	
	US133	5,760,869	06-02-1998	Mitamura	
	US134	5,764,338	06-09-1998	Mack	
	US135	5,777,719	07-07-1998	Williams et al.	
	US136	5,815,233	09-29-1998	Morokawa et al.	
	US137	5,815,239	09-29-1998	Chapman et al.	
	US138	5,835,185	11-10-1998	Kallman et al.	
	US139	5,861,936	01-19-1999	Sorensen	
	US140	5,877,876	03-02-1999	Birdwell	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP49	WO 2008/046858	04-24-2008	Essilor International		
	FP50	EP 1916561	04-30-2008	Varibel BV.		
	FP51	WO 2008/051520 A2	05-02-2008	PixelOptics, Inc.		
	FP52	WO 2008/115251	09-25-2008	IN Technology Holdings LLC		
	FP53	WO 2009/081542	07-02-2009	Panasonic Corp.		
	FP54	WO 2009/098719	08-13-2009	Cozzani		
	FP55	WO 2009109749	09-11-2009	Adlens Ltd.		
	FP56	WO 2009/126946	10-15-2009	PixelOptics, Inc.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 8 of 17

Complete if Known	
Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US141	5,900,720	05-04-1999	Kallman et al.	
	US142	5,949,521	09-07-1999	Williams et al.	
	US143	5,953,098	09-14-1999	Lieberman et al.	
	US144	5,956,183	09-21-1999	Epstein et al.	
	US145	5,963,300	10-05-1999	Horwitz	
	US146	5,971,540	10-26-1999	Ofner	
	US147	5,980,037	11-09-1999	Conway	
	US148	5,999,328	12-07-1999	Kurtin et al.	
	US149	6,040,947	03-21-2000	Kurtin et al.	
	US150	6,050,687	04-18-2000	Bille et al.	
	US151	6,069,742	05-30-2000	Silver	
	US152	6,086,203	07-11-2000	Blum et al.	
	US153	6,086,204	07-11-2000	Magnante	
	US154	6,095,651	08-01-2000	Williams et al.	
	US155	6,097,450	08-01-2000	Humphrey	
	US156	6,099,117	08-08-2000	Gregory	
	US157	6,115,177	09-05-2000	Vossler	
	US158	6,145,987	11-14-2000	Baude et al.	
	US159	6,163,926	12-26-2000	Watanabe	
	US160	6,188,525 B1	02-13-2001	Silver	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	FP57	WO 2009125184	10-15-2009	Adlens Ltd.		
	FP58	WO 2009/136667	11-12-2009	Scalar Corp.		
	FP59	JP 09294654	12-17-2009	Scalar Corp.		X
	FP60	WO 2010/062504	06-03-2010	CJoahrneson & Johnson Vision		
	FP61	WO 2010/080999	07-15-2010	PixelOptics, Inc.		
	FP62	EP 2233964	09-29-2010	Panasonic Corp.		
	FP63	WO 2011/119601	09-29-2011	PixelOptics Inc.		

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	9	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US161	6,213,602 B1	02-13-2001	Smarto	
	US162	6,191,881 B1	02-20-2001	Tajima	
	US163	2001/0007493	07-12-2001	Masunaga et al.	
	US164	6,270,220 B1	08-07-2001	Keren	
	US165	6,271,915 B1	08-07-2001	Frey et al.	
	US166	6,288,846	09-11-2001	Stoner, Jr.	
	US167	6,305,802 B1	10-23-2001	Roffman et al.	
	US168	2001/0043266	11-22-2001	Robinson et al.	
	US169	6,325,508 B1	12-04-2001	Decreton et al.	
	US170	2001/0055094 A1	12-27-2001	Zhang	
	US171	6,336,250	01-08-2002	Takeda et al.	
	US172	6,350,031 B1	02-26-2002	Lashkari et al.	
	US173	6,390,623 B1	05-21-2002	Kokonaski et al.	
	US174	6,396,622 B1	05-28-2002	Alden	
	US175	6,412,941	07-01-2002	Xiao	
	US176	6,437,762 B1	08-20-2002	Birdwell	
	US177	6,437,925 B1	08-20-2002	Nishioka	
	US178	2002/0140899 A1	10-03-2002	Blum et al.	
	US179	6,464,363 B1	10-15-2002	Nishioka et al.	
	US180	2002/0149739 A1	10-17-2002	Perrott et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 10 of 17

Complete if Known	
Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US181	6,491,394 B1	12-10-2002	Blum et al.	
	US182	2002/0186346 A1	12-12-2002	Stantz et al.	
	US183	6,501,443 B1	12-31-2002	McMahon	
	US184	2003/0018383 A1	01-23-2003	Azar	
	US185	6,554,425 B1	04-29-2003	Roffman et al.	
	US186	2003/0095336 A1	05-01-2003	Floyd	
	US187	6,582,075	06-24-2003	Swab et al.	
	US188	6,595,634	07-22-2003	Pilat, Jr.	
	US189	2003/0151721 A1	08-14-2003	Lai et al.	
	US190	6,607,271 B2	08-19-2003	Bar et al.	
	US191	6,609,794 B2	08-26-2003	Levine	
	US192	6,614,408 B1	09-02-2003	Mann	
	US193	6,618,208	09-09-2003	Silver	
	US194	6,616,275 B1	09-09-2003	Dick et al.	
	US195	6,616,279 B1	09-09-2003	Davis et al.	
	US196	6,618,208 B1	09-09-2003	Silver	
	US197	6,626,532 B1	09-30-2003	Nishioka et al.	
	US198	6,631,001 B2	10-07-2003	Kuiseko	
	US199	2003/0210377 A1	11-13-2003	Blum et al.	
	US200	2004/0000733 A1	01-01-2004	Swab et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 11 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US201	2004/0001180	01-01-2004	Epstein	
	US202	2004/000733	01-01-2004	Swab et al.	
	US203	2004/0008319 A1	01-15-2004	Lai et al.	
	US204	6,682,195 B2	01-27-2004	Dreher	
	US205	6,709,105 B2	03-23-2004	Menezes	
	US206	6,709,108 B2	03-23-2004	Levine et al.	
	US207	6,715,876	04-06-2004	Floyd	
	US208	6,719,425 B2	04-13-2004	Conner	
	US209	6,738,199 B2	05-18-2004	Nishioka et al.	
	US210	2004/0108971 A1	06-10-2004	Waldern et al.	
	US211	2004/0117011 A1	06-17-2004	Aharoni et al.	
	US212	2004/0130677 A1	07-08-2004	Liang et al.	
	US213	6,768,536 B2	07-27-2004	Okuwaki et al.	
	US214	6,772,448 B1	08-10-2004	Hockaday et al.	
	US215	6,774,871 B2	08-10-2004	Birdwell	
	US216	2004/0156012 A1	08-12-2004	Jannard et al.	
	US217	6,778,246 B2	08-17-2004	Sun et al.	
	US218	2004/0179280 A1	09-16-2004	Nishioka	
	US219	2004/0196435 A1	10-07-2004	Dick et al.	
	US220	2004/0246440 A1	12-09-2004	Andino et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 12 of 17

Complete if Known	
Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number: Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US221	6,833,938 B2	12-21-2004	Nishioka	
	US222	6,840,619 B2	01-11-2005	Dreher	
	US223	6,851,805 B2	02-08-2005	Blum et al.	
	US224	7,333,272	02-19-2005	Oh et al.	
	US225	6,866,386	03-15-2005	Chen	
	US226	6,871,951 B2	03-29-2005	Blum et al.	
	US227	2005/0073739 A1	04-07-2005	Meredith	
	US228	2005/0078274 A1	04-14-2005	Howell et al.	
	US229	6,883,916 B2	04-26-2005	Menezes	
	US230	6,886,938 B1	05-03-2005	Menezes	
	US231	6,893,124 B1	05-17-2005	Kurtin	
	US232	6,902,271 B2	06-07-2005	Perrott et al.	
	US233	2005/0124983 A1	06-09-2005	Frey et al.	
	US234	2005/0140922	06-30-2005	Bekerman et al.	
	US235	2005/0140924 A1	06-30-2005	Blum et al.	
	US236	6,918,670 B2	07-19-2005	Blum et al.	
	US237	6,938,277	09-01-2005	Lindahl	
	US238	6,948,818 B2	09-27-2005	Williams et al.	
	US239	2005/0237477	10-01-2005	Lindahl	
	US240	6,951,391 B2	10-04-2005	Morris et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document: Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 13 of 17

Complete if Known	
Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US241	2005/0225723 A1	10-13-2005	Pilu	
	US242	6,955,433 B1	10-18-2005	Wooley et al.	
	US243	6,956,682 B2	10-18-2005	Wooley	
	US244	2005/0237485 A1	10-27-2005	Blum et al.	
	US245	2005/0239502 A1	10-27-2005	Swab et al.	
	US246	2005/0242771	11-03-2005	Blum et al.	
	US247	2005/0248719 A1	11-10-2005	Howell et al.	
	US248	2005/0264752 A1	12-01-2005	Howell et al.	
	US249	2005/270479	12-08-2005	Canavan et al.	
	US250	2005/270481	12-08-2005	Blum et al.	
	US251	2006/0001827 A1	01-05-2006	Howell et al.	
	US252	6,986,579 B2	01-17-2006	Blum et al.	
	US253	2006/0023158 A1	02-02-2006	Howell et al.	
	US254	2006/0044510 A1	03-02-2006	Williams et al.	
	US255	7,009,757	03-07-2006	Nishioka et al.	
	US256	7,008,054 B1	03-07-2006	Kurtin et al.	
	US257	7,009,757 B2	03-07-2006	Nishioka et al.	
	US258	7,019,890 B2	03-28-2006	Meredith et al.	
	US259	7,030,411	04-01-2006	Krulevitch et al.	
	US260	2006/0077562	04-13-2006	Silver	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 14 of 17

Complete if Known	
Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US261	7,030,411 B2	04-18-2006	Krulevitch et al.	
	US262	2006/0092340 A1	05-04-2006	Blum et al.	
	US263	7,041,133 B1	05-09-2006	Azar	
	US264	7,063,420	06-20-2006	Lerner et al.	
	US265	2006/0164593 A1	07-27-2006	Peyghambarian et al.	
	US266	7,085,065 B2	08-01-2006	Silver	
	US267	7,090,348 B2	08-15-2006	Nason et al.	
	US268	7,104,645	09-12-2006	Pilat, Jr.	
	US269	2006/0203186 A1	09-14-2006	Ifergan	
	US270	7,133,172 B2	11-07-2006	Nishioka	
	US271	2006/0250699	11-09-2006	Silver	
	US272	7,140,727	11-28-2006	Pilat, Jr. et al.	
	US273	7,142,369	11-28-2006	Wu et al.	
	US274	7,159,983 B2	01-09-2007	Menezes et al.	
	US275	2007/0059503 A1	03-15-2007	Park et al.	
	US276	2007/0091257 A1	04-01-2007	Spivey	
	US277	7,209,097 B2	04-24-2007	Suyama et al.	
	US278	2007/121061	05-31-2007	Kim	
	US279	7,229,173 B2	06-12-2007	Menezes et al.	
	US280	7,256,943	08-14-2007	Kobrin et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	15	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US281	2007/0258039 A1	11-08-2007	Duston et al.	
	US282	2007/0263293	11-15-2007	Batchko et al.	
	US283	2007/0296918	12-27-2007	Blum et al.	
	US284	2008/0019015	01-24-2008	Fernandez et al.	
	US285	2008/0084532 A1	04-01-2008	Kurtin	
	US286	2008/0100792 A1	05-01-2008	Blum et al.	
	US287	7,369,321	05-06-2008	Ren et al.	
	US288	2008/0106695 A1	05-08-2008	Kokonaski et al.	
	US289	7,425,066	09-16-2008	Blum et al.	
	US290	2008/316420	10-25-2008	Agazarova	
	US291	7,452,075	11-01-2008	Luliano	
	US292	2008/0273166 A1	11-06-2008	Kokonaski et al.	
	US293	2008/273166	11-06-2008	Kokonaski	
	US294	7,453,646	11-18-2008	Lo	
	US295	2009/0002626 A1	01-01-2009	Wakabayashi	
	US296	2009/0116118 A1	05-01-2009	Frazier et al.	
	US297	7,553,019	06-30-2009	Kulper et al.	
	US298	2009/0201460 A1	08-13-2009	Blum et al.	
	US299	2009/213471	08-27-2009	Silver et al.	
	US300	7,594,726	09-29-2009	Silver	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	16	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US301	2009/0256977 A1	10-15-2009	Haddock et al.	
	US302	2010/0039709	02-18-2010	Lo	
	US303	7,675,686	03-09-2010	Lo et al.	
	US304	2010/0177277 A1	07-15-2010	Kokonaski et al.	
	US305	2010/0201938	08-12-2010	Jackson et al.	
	US306	2010/0208194	08-19-2010	Gupta et al.	
	US307	2010/0208195	08-19-2010	Gupta et al.	
	US308	7,782,541	08-24-2010	Oh et al.	
	US309	7,784,935	08-31-2010	Jackson et al.	
	US310	7,806,525	10-01-2010	Howell et al.	
	US311	7,813,048	10-12-2010	Lynch et al.	
	US312	2010/0265456 A1	10-21-2010	Matsui	
	US313	2010/0271588 A1	10-28-2010	Kokonaski et al.	
	US314	2010/0309426	12-09-2010	Howell et al.	
	US315	7,850,304 B2	12-14-2010	Jacobs et al.	
	US316	2011/0058141 A1	03-10-2011	Cozzani	
	US317	8,016,415 B2	09-13-2011	Figler et al.	
	US318	2012/0002159 A1	01-05-2012	Blum et al.	
	US319	2012/0002160 A1	01-05-2012	Blum et al.	
	US320	2012/0127420 A1	05-24-2012	Blum et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 17 of 17

Complete if Known	
Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US321	2012/0262667 A1	10-18-2012	Willey	
	US322	8,337,014 B2	12-25-2012	Kokonaski et al.	
	US323	2013/0010256 A1	01-10-2013	Haddock et al.	
	US324	2013/0201439 A1	08-08-2013	Kokonaski et al.	
	US325	2013/0250233 A1	09-26-2013	Blum et al.	
	US326	8,922,902 B2	12-30-2014	Blum et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

2008535

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	1	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
	NPL1	"Hearing Mojo: Varibel Hearing-Aid Glasses Integrate Eight Directional Microphones," February 27, 2009, pages 1-4, URL-http://hearingmojo.com/blog-mt/blog-mt/2006/04/varibel_hearingaid_glasses_dou.html	
	NPL2	Anderson, M.; Adaptive Optics: Liquid Crystals Lower the Cost of Adaptive Optics; Laser Focus World, December 1999	
	NPL3	Bradley, Arthur; Profile: Larry N. Thibos, PhD., and Donald T. Miller, PhD.; Indiana Journal of Optometry; Spring 1999; Vol. 2, No. 1	
	NPL4	International Preliminary Report on Patentability corresponding to the PCT/US2011/042882 application	
	NPL5	International Search Report cited in PCT/US2011/029419 application	
	NPL6	International Search Report corresponding to the PCT/US2011/042048 application	
	NPL7	Davis, Robert A.; Computer Vision Syndrome- The Eyestrain Epidemic; Review of Optometry, September 15, 1997	
	NPL8	Donald T. Miller, Xin Hong, and Larry N. Thibos, "Requirements for segmented spatial light modulators for diffraction-limited imaging through aberrated eyes," G.D. Love, ed. *Proceedings of the 2nd International Workshop on Adaptive Optics for Industry and Medecine,* World Scientific, Singapore, 63-68 (July 1999)	
	NPL9	European Search Report in related EP07852880.9 application	
	NPL10	Eyecare Business, October 1997	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	2	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL11	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2008/058056, mailed November 10, 2009; 6 pages	
	NPL12	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2010/020498, issued July 12, 2011; 9 pages	
	NPL13	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/042882, issued January 8, 2013; 11 pages	
	NPL14	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/042883, issued January 8, 2013; 9 pages	
	NPL15	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/043591, issued January 15, 2013; 10 pages	
	NPL16	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/061495, issued May 21, 2013; 8 pages	
	NPL17	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/061505, issued May 21, 2013; 14 pages	
	NPL18	International Search Report and Written Opinion in corresponding PCT/US2008/058056 application	
	NPL19	International Search Report and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2008/058056, mailed July 17, 2008; 7 pages	
	NPL20	International Search Report corresponding to the PCT/US2011/042882 application	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	3	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL21	International Search Report corresponding to the PCT/US2011/042883 application	
	NPL22	International Search Report corresponding to the PCT/US2011/043591 application	
	NPL23	International Search Report corresponding to the PCT/US2011/061495 application	
	NPL24	International Search Report corresponding to the PCT/US2011/061505 application	
	NPL25	International Search Report directed to related International Patent Application No. PCT/US2008/058056, mailed July 17, 2008; 1 page	
	NPL26	International Search Report directed to related International Patent Application No. PCT/US2010/020498, mailed June 25, 2010; 5 pages	
	NPL27	International Search Report directed to related International Patent Application No. PCT/US2011/042882, mailed February 15, 2012; 6 pages	
	NPL28	International Search Report directed to related International Patent Application No. PCT/US2011/042883, dated February 7, 2012; 7 pages	
	NPL29	International Search Report directed to related International Patent Application No. PCT/US2011/043591, mailed February 3, 2012; 7 pages	
	NPL30	International Search Report directed to related International Patent Application No. PCT/US2011/061495, mailed February 29, 2012; 3 pages	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	4	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL31	International Search Report directed to related International Patent Application No. PCT/US2011/061505, mailed May 25, 2012; 7 pages	
	NPL32	International Search Report directed to related International Patent Application No. PCT/US2012/051202, mailed January 15, 2013; 4 pages	
	NPL33	Kowel, Stephen T., et al; Focusing by electical modulation of refraction in a liquid crystal cell; Applied Optics; 15 January 1984; Vol. 23, No. 2	
	NPL34	Lazarus, Stuart M.; The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer; Journal of the American Optometric Association, April 1996	
	NPL35	Liquid Lenses Eye Commercial Breakthrough; Opto & Laser Europe, November 2003	
	NPL36	Naumov, A.F.; Control Optimization of Spherical Modal Liquid Crystal Lenses; Optics Express, 26 April1999; Vol. 4, No.9; Optical Society of America	
	NPL37	Naumov, A.F.; Liquid Crystal Adaptive Lenses with Modal Control; Optics Letters, 1 July 1998, Vol. 23, No. 13; Optical Society of America	
	NPL38	Partial International Search Report corresponding to PCT/US2012/051202 application	
	NPL39	Partial International Search Report in corresponding PCT/US2010/020498 application	
	NPL40	Supplementary European Search Report directed to related European Patent Application No. 07852880.9 - 2217, mailed February 9, 2010; 7 pages	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	5	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL41	Thibos, Larry N., et al.; Electronic Spectacles for the 21st Century, Indian Journal of Optometry, Spring 1999; Vol. 2, No. 1	
	NPL42	Thibos, Larry N., et al.; Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye; Optometry and Vision Science; July 1997; Vol. 74, No. 7; American Academy of Optometry	
	NPL43	Thibos, Larry N., et al.; Vision through a liquid-crystal spatial light modulator; Adaptive Optics Conference; July 1999; Durham, UK	
	NPL44	Miller, Donald T., et al.; Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes; Adaptive Optics Conference; July 1999; Durham, UK	
	NPL45	U.S. provisional patent application no. 60/796,876, filed on May 3, 2006	
	NPL46	U.S. provisional patent application no. 60/854,677, filed on October 27, 2006	
	NPL47	U.S. provisional patent application no. 60/854,697, filed on October 27, 2006	
	NPL48	U.S. provisional patent application no. 61/326,703, filed on April 22, 2010	
	NPL49	U.S. provisional patent application no. 61/358,447, filed on June 25, 2010	
	NPL50	U.S. provisional patent application no. 61/361,110, filed on July 2, 2010	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	6	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
	NPL51	U.S. provisional patent application no. 61/362,877 filed July 9, 2010	
	NPL52	U.S. provisional patent application no. 61/366,746, filed on July 22, 2010	
	NPL53	U.S. provisional patent application no. 61/376,719, filed on August 25, 2010	
	NPL54	U.S. provisional patent application no. 61/382,963, filed on September 15, 2010	
	NPL55	U.S. provisional patent application no. 61/415,391, filed on November 19, 2010	
	NPL56	U.S. provisional patent application no. 61/441,817 filed on February 11, 2011	
	NPL57	U.S. provisional patent application no. 61/481,353 filed on May 2, 2011	

2008536

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Electronic Patent Application Fee Transmittal

Application Number:	13890809
Filing Date:	09-May-2013
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Filer:	John P. McGroarty/Aran Mottley
Attorney Docket Number:	3585.1260000

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	1806	1	180	180
		Total in USD ($)		**180**

Electronic Acknowledgement Receipt	
EFS ID:	22613984
Application Number:	13890809
International Application Number:	
Confirmation Number:	9971
Title of Invention:	MOISTURE-RESISTANT EYE WEAR
First Named Inventor/Applicant Name:	Ronald D. Blum
Customer Number:	115626
Filer:	John P. McGroarty/Aran Mottley
Filer Authorized By:	John P. McGroarty
Attorney Docket Number:	3585.1260000
Receipt Date:	12-JUN-2015
Filing Date:	09-MAY-2013
Time Stamp:	13:47:29
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$180
RAM confirmation Number	52
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		35851260000-IDS.pdf	22602127 ad38f624148451cf61f1b26c75b96285f3b67a02	yes	29

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Transmittal Letter	1	1
Transmittal Letter	2	6
Information Disclosure Statement (IDS) Form (SB08)	7	29

Warnings:

Information:

2	Fee Worksheet (SB06)	fee-info.pdf	30638 44277da5b13c86dcf04a4b888d1197bb48808e31	no	2

Warnings:

Information:

Total Files Size (in bytes):	22632765

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: TRAN.LET

Document Description: Transmittal Letter

PTO/SB/21 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	13/890,809
Filing Date	May 9, 2013
First Named Inventor	Ronald D. BLUM
Art Unit	2872
Examiner Name	O'NEILL, Gary William
Attorney Docket Number	3585.1260000

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Reply to Missing Parts/ Incomplete Application
  - ☐ Reply to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
  - ☐ Landscape Table on CD
- ☐ After Allowance Communication to TC
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please Identify below):

Remarks

The Office may charge any fee deficiency for any submission made with this transmittal to Deposit Account 19-0036.

Online Credit Card Payment Authorization for $180.00 to cover:
$180.00 - Information Disclosure Statement Fee

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.		
Signature	/John P. McGroarty/		
Printed name	John P. McGroarty		
Date	6/12/2013	Reg. No.	41,186

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Confirmation No.: 9971
MITSUI CHEMICALS, INC.	Art Unit: 2872
Appl. No.: 13/890,809	Examiner: O'NEILL, Gary William
Filed: May 9, 2013	Atty. Docket: 3585.1260000
For: **MOISTURE-RESISTANT EYE WEAR**	

Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Commissioner:

Listed on accompanying IDS Forms PTO/SB/08a equivalent and PTO/SB/08b equivalent are documents that may be considered material to the patentability of this application as defined in 37 C.F.R. §1.56, and in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicant has checked the appropriate boxes below.

☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement: (i) was first cited in any communication from a patent office in a

counterpart[1] foreign or international application or from the Office; and this communication was not received by any individual designated in Sec. 1.56(c) more than thirty days prior to the filing of this information disclosure statement; OR (ii) is a communication that was issued by a patent office in a counterpart foreign or international application or by the Office, and this communication was not received by any individual designated in Sec. 1.56(c) more than thirty days prior to the filing of the information disclosure statement.

☐ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

☒ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a

[1] The term counterpart foreign patent application means that a claim for priority has been made in either the U.S. application or a foreign application based on the other, or that the disclosures of the U.S. and foreign patent applications are substantively identical (e.g., an application filed in the European Patent Office claiming the same U.K. priority as claimed in the U.S. application).

communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☒ c. The required fee is provided through online credit card payment authorization in the amount of $180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. The required fee is provided through online credit card payment authorization in the amount of $180.00 in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of

the requirement for a concise explanation of relevance. 1138 OG 37, 38 and MPEP 609.04(a)(III).

☐ 6. A concise explanation of the relevance of the non-English language document(s) appears below in accordance with 37 C.F.R. § 1.98(a)(3).

☒ 7. In accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited as documents US1-US326 on the attached IDS Forms are submitted. Additionally, copies of documents NPL45-NPL57, cited on the attached IDS Forms, are not provided in accordance with the U.S. Patent and Trademark Office Official Gazette notice of October 19, 2004, which states: "the requirement in 37 C.F.R. § 1.98(a)(2)(iii) for a legible copy of the specification, including the claims, and drawings of each cited pending U.S. patent application (or portion of the application which caused it to be listed) is *sua sponte* waived where the cited pending application is stored in the USPTO's IFW system."

☒ 8. Copies of documents FP1-FP63 and NPL1-NPL44 were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 12/054,299, filed 03-24-2008; Application No. 12/834,526, filed 07-12-2010; Application No. 13/169,996, filed 06-27-2011; Application No. 13/298,997, filed 11-17-2011; Application No. 13/372,240, filed 02-13-2012; Application No. 13/587,645, filed 08-16-2012; and/or Application No. 13/726,267, filed 12-24-2012, which are relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

☒ 9. It is expected that the examiner will review the prosecution and cited art in the parent application no(s). 13/726,267, filed December 24, 2012; 13/587,645, filed August 16, 2012; 13/372,240, filed February 13, 2012; 13/298,997, filed November 17, 2011; 13/169,996, filed June 27, 2011; 12/834,526, filed July 12, 2010; and 12/054,299, filed March 24, 2008, in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

Atty. Dkt. No. 3585.1260000

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

John P. McGroarty
Attorney for Applicant
Registration No. 41,186

Date: 6/12/2015

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

2008529

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
13/890,809	05/09/2013	Ronald D. Blum	3585.1260000	9971

115626 7590 07/07/2015
Sterne, Kessler, Goldstein & Fox P.L.L.C.
1100 New York Avenue NW
Washington, DC 20005

EXAMINER	
O'NEILL, GARY WILLIAM	

ART UNIT	PAPER NUMBER
2872	

MAIL DATE	DELIVERY MODE
07/07/2015	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

Office Action Summary	Application No. 13/890,809	Applicant(s) BLUM ET AL.	
	Examiner GARY O'NEILL	Art Unit 2872	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5)☒ Claim(s) *1-18* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-18* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☒ The drawing(s) filed on *05/09/2013* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☒ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date *06/12/2015*.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 06/12/2015 has been considered by the examiner.

3. The Examiner has considered all of the references submitted as part of the Information Disclosure Statement, but has not found any to be particularly relevant. If Applicant is aware of pertinent passages, he should so state in the response to this Office action. (See 26 USPQ2d 1889; Molins PLC v. TEXTRON, Inc., DC/DEL. 11/24/92).

Response to Arguments

4. Applicant's arguments, see the fourth paragraph of page 5, filed 05/06/2015, with respect to claim 9 have been fully considered and are persuasive. The rejection of claim 9 under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph has been withdrawn.

5. Applicant's arguments filed 05/06/2015 with respect to the rejections under AIA 35 U.S.C. 102 and 103 have been fully considered but they are not persuasive.

6. In the fifth paragraph of page 5 of Applicant's Remarks, the assertion is made that 'Claims 1-11 and 13 are patentable over Jannard because Jannard does not disclose "sealed" as claimed'. Also on the last paragraph of page 5 and first paragraph of page 6, Applicant asserts 'But, cover members 292 and 262 do not provide a "seal" as recited in the claim. "Sealed" as used in this instant application, requires that the sealed object is moisture resistant or moisture proof. For example, the application states that the electronic modules are "sealed such that they are water resistant or water proof."'.

7. Yet applicant's claim 1 merely recites 'sealing', and *does not require* the additional limitations which applicant now asserts, for example the possibilities ("may be sealed such that they are", specification as filed, in the last line of paragraph 0022) 'moisture resistant or moisture proof'. If applicant intends a particular limitation, the examiner suggests that the claims be amended to clearly recite the specific meaning and limitations which applicant intends, such as moisture resistant or moisture proof. The examiner understands that applicants' original specification is broad, *disclosing many features which are not actually claimed*. Indeed, applicants Remarks in the last two paragraphs of page 6 confirm that "The application provides non-limiting examples of moisture resistant seals.", and "The application also provides examples of structures that do not seal". Therefore, the examiner agrees that applicant must clearly recite within the claims the particular limitations which clearly define the metes and bounds of the claimed invention, since the application also includes features which are *not* included within the claimed subject matter.

8. Moreover, the examiner calls applicants attention to the Office Action mailed 11/7/2014 wherein the rejection of claim 1 cites the U.S. Patent Publication 2006/0132382 to Jannard paragraph 0129. Here, Jannard discloses "A cover member 262 cooperates … to define the closed internal cavity 252. …. The cover 262 can be attached … with *any type of fastener*, such as, for example, *but without limitation*, screws, rivets, bolts, *adhesive, and the like*." (italics added). Thus Jannard clearly discloses closure of a cavity by means, *at least, of an adhesive*. The examiner has here interpreted Jannard as disclosing sealing via, at least, an adhesive. Indeed, applicants specification likewise discloses precisely that "In other embodiments … can be sealed by way of example only, *an adhesive*, caulk, or another material that forms a water resistant barrier." (paragraph 0017, italics added). Therefore, applicant agrees that sealing, via adhesive, forms a water resistant barrier. Thus Jannard meets this limitation of the claim, even as described by applicants specification.

Claim Rejections - 35 USC § 102

9. In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention.

11. Claims 1-11, 13, 14 and 18 are rejected under 35 U.S.C. §102 (a)(1) as being anticipated by Jannard (U.S. Patent Publication 2006/0132382).

12. Regarding claim 1, Jannard teaches an eyewear system (figures 3J, 3M) comprising: an electronics module (284) comprising electronics for controlling an electrical functional member (page 4, paragraph [0083]; page 15, paragraph [0217]); and at least one electrical connective element (ribbon connector, page 9, paragraph [0149]) configured to connect the electronics of the electronics module and the electrical functional member, wherein, at least one of the electrical connective element and the electronics module is sealed (an adhesive and the like, page 8, paragraph [0129]; page 9, paragraph [0138]).

13. Regarding claim 2, Jannard teaches further comprising at least one intermediate electrical contact, wherein: the electrical functional member comprises at least one electrical connector, and the connective element connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member through the at least one intermediate electrical contact (ribbon cable end-piece attaches at printed circuit board mating receptacle, paragraphs [0148, 0149] & figure 3M).

14. Regarding claim 3, Jannard teaches wherein the eyewear system is an eyewear frame (42').

15. Regarding claim 4, Jannard teaches wherein the eyewear system is electronic eyewear including a lens (44, paragraph [0083]).

16. Regarding claim 5, Jannard teaches wherein the lens comprises the electrical functional member (paragraph [0083]).

17. Regarding claim 6, Jannard teaches wherein the electronic functional member is configured to provide an optical function (paragraphs [0083, 0217], figure 8A).

18. Regarding claim 7, Jannard teaches wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a virtual reality function, an augmented reality function, a gaming function, and an active 3D function (paragraphs [0083, 0217], figure 8A).

19. Regarding claim 8, Jannard teaches further comprising the electrical functional member, wherein: the electrical functional member comprises at least one electrical connector, and the connective element directly connects the electronics of the electronics module to the at least one electrical connector of the electrical functional member (figures 3M, 8A).

20. Regarding claim 9, Jannard teaches wherein the intermediate electrical contact is located at one of: a rim of the eyewear, a surface of the electronic functional member, a frame front of the eyewear system, an electronic display, and an electronic controller (paragraph [0149], figure 3M).

21. Regarding claim 10, Jannard teaches wherein the electronic functional member includes at least one of an electro-active lens, an electro-chromic lens, an electronic display, a sensor, a GPS, an alarm, a hearing aid, a virtual reality function, an

augmented reality function, a gaming function, an audio output function, a microphone function, a recording function, a transmitter function, a pedometer, and an active 3D function (paragraphs [0083, 0217], figure 8A).

22. Regarding claim 11, Jannard teaches wherein the electrical connective element is a conductive compressible member (ribbon connector, page 9, paragraph [0149]).

23. Regarding claim 13, Jannard teaches wherein the connective element comprises a multi- conductor cable (ribbon cable, page 9, paragraph [0149]).

24. Regarding claim 14, Jannard teaches wherein the electronics module is sealed (an adhesive and the like, page 8, paragraph [0129]; page 9, paragraph [0138]).

25. Regarding claim 18, Jannard teaches wherein the electrical connective element is sealed (an adhesive and the like, page 8, paragraph [0129]; page 9, paragraph [0138]).

Claim Rejections - 35 USC § 103

26. The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

> A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102 of this title, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

27. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

28. This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

29. Claim 12 is rejected under 35 U.S.C. 103 as being unpatentable over Jannard (U.S. Patent Publication 2006/0132382) as applied to claim 11 above, and further in view of Kallman et al. (U.S. Patent 5,455,638).

30. Regarding claim 12, Jannard lacks the explicit teaching wherein the conductive compressible member is conductive rubber. Within the same field of endeavor Kallman teaches an eyewear system (figure 4) wherein the conductive compressible member is conductive rubber (elastomeric conductive strips from Shin-Etsu Polymer America, Inc. "Shin-Flex MAF-Connector", column 13, lines 53-59). It would be obvious to one having ordinary skill in the art at the time the invention was made to use the elastomeric rubber

conductive strips as taught by Kallman within the eyewear as taught by Jannard for the purpose of constructing electrochromic eyewear having flexible circuit assemblies for increased reliability and durability under humid conditions (Kallman, column 13, lines 44, 52-57).

31. Claims 15-17 are rejected under 35 U.S.C. 103 as being unpatentable over Jannard (U.S. Patent Publication 2006/0132382) as applied to claim 14 above, and further in view of Ikeda (U.S. Patent 4,520,238, as made of record in the office action mailed 11/7/2014).

32. Regarding claim 15, Jannard discloses the eyewear system wherein the electronics module is sealed (an adhesive and the like, page 8, paragraph [0129]; page 9, paragraph [0138]), but fails to explicitly teach sealed with a material selected from a group consisting of electrically-insulating grease, acrylic, silicone, urethane, and epoxy. Within the same field of endeavor (eyewear), Ikeda teaches an eyewear system (figures 20-25) which is sealed with a material selected from a group consisting of electrically-insulating (liquid tightly sealing electric device with electric insulation, column 7, lines 53-66) grease, acrylic, silicone, urethane, and epoxy (silicon or epoxy seal, column 9, lines 23, 60, 61). It would be obvious to one having ordinary skill in the art at the time the invention was made to use the epoxy seal as taught by Ikeda along with the eyewear system as taught by Jannard for the purpose of liquid tightly sealing an electric component of an eyewear device (Ikeda, column 4, lines 40-49; column 9, lines 20-24, 60, 61).

33. Regarding claim 16, Jannard in view of Ikeda discloses the eyewear of claim 15, and Jannard further discloses (figures 12-14) the electronic module is sealed with a coating of the material over a portion of the electronics module (isolation via an insulator 146, such that the remainder of the device can be made from any material, Jannard paragraph 0256. See figure 14).

34. Regarding claim 17, Jannard in view of Ikeda discloses the eyewear of claim 15, and Jannard further discloses (figures 12-14) wherein the electronics module is embedded in the material (electronic elements 104, 142 are in isolated via an insulator 146, such that the remainder of the device can be made from any material, Jannard paragraphs 0250, 0256. See figure 14).

Conclusion

35. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

36. Harper (U.S. Patent 6,824,265) discloses eyewear comprising integrated electronic components.

37. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GARY O'NEILL whose telephone number is (313)446-6521. The examiner can normally be reached on Monday - Friday; EST 8:30-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 571-272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GARY O'NEILL/
Examiner, Art Unit 2872
June 24, 2015

/RICKY MACK/
Supervisory Patent Examiner, Art Unit 2872

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	13890809	BLUM ET AL.
	Examiner	Art Unit
	GARY O'NEILL	2872

CPC- SEARCHED		
Symbol	Date	Examiner
G02C 11/06, 11/10	10/30/14	GO
UPDATED	6/24/15	GO

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
351	41-158,178	10/30/14	GO
	UPDATED	6/24/15	GO

SEARCH NOTES		
Search Notes	Date	Examiner
EAST BRS Search (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) attached	10/30/14	GO
EAST BRS Search (Updated and attached)	6/24/15	GO

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 1 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US1	2,437,642	03-09-1948	Henroleau	
	US2	2,576,581	11-27-1951	Edwards	
	US3	2,930,857	03-29-1960	Hollingsworth	
	US4	3,161,718	12-15-1964	De Luca	
	US5	3,245,315	04-12-1966	Marks et al.	
	US6	3,309,162	03-14-1967	Kosanke et al.	
	US7	3,614,215	10-19-1971	Mackta	
	US8	3,738,734	06-12-1973	Tait et al.	
	US9	3,791,719	02-12-1974	Kratzer et al.	
	US10	4,062,629	12-13-1977	Winthrop	
	US11	4,152,846	05-08-1979	Witt	
	US12	4,174,156	11-13-1979	Glorieux	
	US13	4,181,408	01-01-1980	Senders	
	US14	4,190,330	02-26-1980	Berreman	
	US15	4,243,306	01-06-1981	Bononi	
	US16	4,264,154	04-28-1981	Petersen	
	US17	4,279,474	07-21-1981	Belgorod	
	US18	4,283,127	08-11-1981	Rosenwinket et al.	
	US19	4,300,818	11-17-1981	Schachar	
/G.O./	US20	4,320,939	03-23-1982	Mueller	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
/G.O./	FP1	DE 2304134	08-30-1973	Gould Inc.		X
	FP2	GB 1563929	04-02-1980	American Cyanamid Co		
	FP3	JP 55-076323	06-09-1980	Tomita		
	FP4	EP 0 027 339	04-22-1981	Wiseman Ltd. UK		
	FP5	EP 0061002	09-29-1982	Desil SPA Occhialeria		
	FP6	EP 0154962	09-18-1985	Shimada et al.		
	FP7	JP 61156227	07-15-1986	Olympus Optical Co., Ltd.		
/G.O./	FP8	GB 2170613	08-06-1986	Olympus Optical Co., Ltd.		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 2 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US21	4,373,218	02-15-1983	Schachar	
	US22	4,395,736	07-26-1983	Fraleux	
	US23	4,418,990	12-06-1983	Gerber	
	US24	4,423,929	01-03-1984	Gomi	
	US25	4,431,262	02-14-1984	Tolies	
	US26	4,457,585	07-03-1984	DuCorday	
	US27	4,461,550	07-24-1984	Legendre	
	US28	4,466,703	08-21-1984	Nishimoto	
	US29	4,466,706	08-21-1984	Lamothe, II	
	US30	4,529,268	07-16-1985	Brown	
	US31	4,537,479	08-27-1985	Shinohara et al.	
	US32	4,564,267	01-14-1986	Nishimoto	
	US33	4,572,616	02-25-1986	Kowel et al.	
	US34	4,577,928	03-25-1986	Brown	
	US35	4,601,545	07-22-1986	Kern	
	US36	4,609,824	09-02-1986	Munier et al.	
	US37	4,712,870	12-15-1987	Robinson et al.	
	US38	4,756,605	07-12-1988	Okada et al.	
	US39	4,772,094	09-20-1988	Sheiman	
/G.O./	US40	D298,250 S	10-25-1988	Kildall	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
/G.O./	FP9	JP 61177429	08-09-1986	Olympus Optical Co., Ltd.		
	FP10	EP 0 225 034	06-10-1987	Ewer		
	FP11	GB 2169417	07-09-1987	Okada et al.		
	FP12	EP 0233104	08-19-1987	Arques		
	FP13	EP 0237365	09-16-1987	Arques		
	FP14	EP 0 308 705	03-29-1989	Allergan Inc.		
	FP15	JP 1 237610	09-22-1989	Yasunobu		
/G.O./	FP16	WO 92/01417	02-06-1992	Horowitz		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 3 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US41	4,787,733	11-29-1988	Silva	
	US42	4,787,903	11-29-1988	Grendahl	
	US43	4,795,248	01-03-1989	Okada et al.	
	US44	4,813,777	03-21-1989	Rainville et al.	
	US45	4,818,095	04-04-1989	Takeuchi	
	US46	4,836,652	06-06-1989	Oishi et al.	
	US47	4,842,400	06-27-1989	Klein	
	US48	4,875,030	10-17-1989	Chiu	
	US49	4,880,300	11-14-1989	Payner et al.	
	US50	4,890,903	01-02-1990	Treisman et al.	
	US51	4,904,063	02-27-1990	Okada et al.	
	US52	4,907,860	03-13-1990	Noble	
	US53	4,909,626	03-20-1990	Purvis et al.	
	US54	4,919,520	04-24-1990	Okada et al.	
	US55	4,921,728	05-01-1990	Takiguchi	
	US56	4,927,241	05-22-1990	Kuijk	
	US57	4,929,865	05-29-1990	Blum et al.	
	US58	4,930,884	06-05-1990	Tichenor et al.	
	US59	4,944,584	07-31-1990	Maeda et al.	
/G.O./	US60	4,945,242	07-31-1990	Berger et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
/G.O./	FP17	JP 05-100201	04-23-1993	Yokoyama et al.		
	FP18	DE 4223395	01-13-1994	Grimm et al.		
	FP19	EP 0 578 833	01-19-1994	Seiko Epson Corp		
	FP20	EP 0 649 044	04-19-1995	Citizen Watch Co. Ltd.		
	FP21	WO 98/27863	07-02-1998	Williams et al.		
	FP22	JP 11352445	12-09-1998	Nishioka		
	FP23	WO 99/21400	04-29-1999	Technische Universiteit Delft		
/G.O./	FP24	WO 99/27334	06-03-1999	Frey et al.		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 4 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US61	4,952,788	08-28-1990	Berger et al.	
	US62	4,955,712	09-11-1990	Barth et al.	
	US63	4,958,907	09-25-1990	Davis	
	US64	4,961,639	10-09-1990	Lazarus	
	US65	4,967,268	10-30-1990	Lipton et al.	
	US66	4,968,127	11-06-1990	Russell et al.	
	US67	4,981,342	01-01-1991	Fiala	
	US68	4,991,258	02-12-1991	Drlik	
	US69	4,991,951	02-12-1991	Mizuno et al.	
	US70	5,015,086	05-14-1991	Okaue et al.	
	US71	5,030,882	07-09-1991	Solero	
	US72	5,050,981	09-24-1991	Roffman	
	US73	5,066,301	11-19-1991	Wiley	
	US74	5,067,795	11-26-1991	Senatore	
	US75	5,073,021	12-17-1991	Marron	
	US76	5,076,665	12-31-1991	Petersen	
	US77	5,089,023	02-18-1992	Swanson	
	US78	5,091,801	02-25-1992	Ebstein	
	US79	5,108,169	04-28-1992	Mandell	
/G.O./	US80	5,114,218	05-01-1992	Black et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
/G.O./	FP25	WO 1999041624	08-19-1999	Bonds		
	FP26	WO 01/02895	01-11-2001	E-Vision, LLC		
	FP27	WO 01/35159	05-17-2001	PPG Ind Ohio Inc		
	FP28	WO 2001075510	10-11-2001	Silver		
	FP29	CN ROC89113088	10-21-2001	Blum et al.		
	FP30	WO 03/050472	06-19-2003	Horowitz		
	FP31	WO 03/068059	08-21-2003	Lai et al.		
/G.O./	FP32	WO 04/008189	01-22-2004	Lai et al.		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 5 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US81	5,114,628	05-19-1992	Hofer et al.	
	US82	5,130,856	07-14-1992	Tichenor et al.	
	US83	5,142,411	08-25-1992	Fiala	
	US84	5,150,234	09-22-1992	Takahashi et al.	
	US85	5,171,266	12-15-1992	Wiley et al.	
	US86	5,182,585	01-26-1993	Stoner	
	US87	5,184,156	02-02-1993	Black et al.	
	US88	5,200,859	04-06-1993	Payner et al.	
	US89	RE34,251	05-01-1993	Achatz et al.	
	US90	5,208,688	05-04-1993	Fergason et al.	
	US91	5,229,797	07-20-1993	Futhey et al.	
	US92	5,229,885	07-20-1993	Quaglia	
	US93	5,231,430	07-27-1993	Kohayakawa	
	US94	5,239,412	08-24-1993	Naka et al.	
	US95	D342,063 S	12-07-1993	Howitt et al.	
	US96	5,305,028	04-19-1994	Okano	
	US97	5,306,926	04-26-1994	Yonemoto	
	US98	5,319,397	06-01-1994	Ryden	
	US99	5,324,930	06-28-1994	Jech, Jr.	
/G.O./	US100	D350,342 S	09-06-1994	Sack	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Figures Appear	T[6]
/G.O./	FP33	WO 04/015481	02-19-2004	Dreher et al.		
	FP34	WO 2004/028203	04-01-2004	Stichting Voor De Technische Wetenschappen		
	FP35	WO 04/034095	04-22-2004	Lai		
	FP36	WO 04/072687	08-26-2004	Blum et al.		
	FP37	WO 2005/016057 A1	02-24-2005	Lewis et al.		
	FP38	EP 1647854	04-19-2006	Sunshine Optical Company		
	FP39	WO 2006/086155 A2	08-17-2006	Colgate-Palmolive Company		
/G.O./	FP40	EP 1727393	11-29-2006	Varibel BV.		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 6 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US101	5,352,886	10-04-1994	Kane	
	US102	5,359,444	10-25-1994	Piosenka et al.	
	US103	5,375,006	12-20-1994	Haas	
	US104	5,382,986	01-17-1995	Black et al.	
	US105	5,386,308	01-31-1995	Michel et al.	
	US106	5,739,959	04-14-1995	Quaglia	
	US107	5,424,927	06-13-1995	Schaller et al.	
	US108	5,774,273	06-30-1995	Bornhorst	
	US109	5,440,357	08-08-1995	Quaglia	
	US110	5,443,506	08-22-1995	Garabet	
	US111	5,451,766	09-19-1995	Van Berkel	
	US112	5,455,638	10-03-1995	Kallman et al.	
	US113	5,463,428	10-31-1995	Lipton et al.	
	US114	5,488,439	01-30-1996	Weltmann	
	US115	5,489,302	02-06-1996	Skottun	
	US116	5,522,323	06-04-1996	Richard	
	US117	5,526,067	06-11-1996	Cronin et al.	
	US118	5,552,841	09-03-1996	Gallorini et al.	
	US119	5,608,567	03-04-1997	Grupp	
/G.O./	US120	5,615,588	04-01-1997	Gottschald	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Figures Appear	T[6]
/G.O./	FP41	WO 2006/126881 A2	11-30-2006	Varibel BV		
	FP42	WO 2006/1235960	12-28-2006	Global Bionic Optics		
	FP43	WO 2007/142520	12-13-2007	Varibel BV.		
	FP44	WO 2007142602	12-13-2007	Agency for Science, Technology and Research		
	FP45	WO 2008/002388	01-03-2008	PixelOptics Inc.		
	FP46	WO 2008024071	02-28-2008	Agency for Science, Technology and Research		
	FP47	JP 2008/083299	04-10-2008	Biito KK		X
/G.O./	FP48	WO 2008/045283	04-17-2008	Lane Res LLC		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 7 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US121	5,654,789	08-05-1997	Bylander	
	US122	5,657,107	08-12-1997	Wagner et al.	
	US123	5,668,620	09-16-1997	Kurtin et al.	
	US124	5,682,223	10-28-1997	Menezes et al.	
	US125	5,683,457	11-04-1997	Gupta et al.	
	US126	5,684,637	11-04-1997	Floyd	
	US127	RE35,691	12-16-1997	Theirl et al.	
	US128	5,710,615	01-20-1998	Kitani	
	US129	5,712,721	01-27-1998	Large	
	US130	5,728,155	03-17-1998	Anello et al.	
	US131	5,739,959	04-14-1998	Quaglia	
	US132	5,742,379	04-21-1998	Reifer	
	US133	5,760,869	06-02-1998	Mitamura	
	US134	5,764,338	06-09-1998	Mack	
	US135	5,777,719	07-07-1998	Williams et al.	
	US136	5,815,233	09-29-1998	Morokawa et al.	
	US137	5,815,239	09-29-1998	Chapman et al.	
	US138	5,835,185	11-10-1998	Kallman et al.	
	US139	5,861,936	01-19-1999	Sorensen	
/G.O./	US140	5,877,876	03-02-1999	Birdwell	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
/G.O./	FP49	WO 2008/046858	04-24-2008	Essilor International		
	FP50	EP 1916561	04-30-2008	Varibel BV.		
	FP51	WO 2008/051520 A2	05-02-2008	PixelOptics, Inc.		
	FP52	WO 2008/115251	09-25-2008	IN Technology Holdings LLC		
	FP53	WO 2009/081542	07-02-2009	Panasonic Corp.		
	FP54	WO 2009/098719	08-13-2009	Cozzani		
	FP55	WO 2009109749	09-11-2009	Adlens Ltd.		
/G.O./	FP56	WO 2009/126946	10-15-2009	PixelOptics, Inc.		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 8 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US141	5,900,720	05-04-1999	Kallman et al.	
	US142	5,949,521	09-07-1999	Williams et al.	
	US143	5,953,098	09-14-1999	Lieberman et al.	
	US144	5,956,183	09-21-1999	Epstein et al.	
	US145	5,963,300	10-05-1999	Horwitz	
	US146	5,971,540	10-26-1999	Ofner	
	US147	5,980,037	11-09-1999	Conway	
	US148	5,999,328	12-07-1999	Kurtin et al.	
	US149	6,040,947	03-21-2000	Kurtin et al.	
	US150	6,050,687	04-18-2000	Bille et al.	
	US151	6,069,742	05-30-2000	Silver	
	US152	6,086,203	07-11-2000	Blum et al.	
	US153	6,086,204	07-11-2000	Magnante	
	US154	6,095,651	08-01-2000	Williams et al.	
	US155	6,097,450	08-01-2000	Humphrey	
	US156	6,099,117	08-08-2000	Gregory	
	US157	6,115,177	09-05-2000	Vossler	
	US158	6,145,987	11-14-2000	Baude et al.	
	US159	6,163,926	12-26-2000	Watanabe	
/G.O./	US160	6,188,525 B1	02-13-2001	Silver	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
/G.O./	FP57	WO 2009125184	10-15-2009	Adlens Ltd.		
	FP58	WO 2009/136667	11-12-2009	Scalar Corp.		
	FP59	JP 09294654	12-17-2009	Scalar Corp.		X
	FP60	WO 2010/062504	06-03-2010	CJoahrneson & Johnson Vision		
	FP61	WO 2010/080999	07-15-2010	PixelOptics, Inc.		
	FP62	EP 2233964	09-29-2010	Panasonic Corp.		
/G.O./	FP63	WO 2011/119601	09-29-2011	PixelOptics Inc.		

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	9	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US161	6,213,602 B1	02-13-2001	Smarto	
	US162	6,191,881 B1	02-20-2001	Tajima	
	US163	2001/0007493	07-12-2001	Masunaga et al.	
	US164	6,270,220 B1	08-07-2001	Keren	
	US165	6,271,915 B1	08-07-2001	Frey et al.	
	US166	6,288,846	09-11-2001	Stoner, Jr.	
	US167	6,305,802 B1	10-23-2001	Roffman et al.	
	US168	2001/0043266	11-22-2001	Robinson et al.	
	US169	6,325,508 B1	12-04-2001	Decreton et al.	
	US170	2001/0055094 A1	12-27-2001	Zhang	
	US171	6,336,250	01-08-2002	Takeda et al.	
	US172	6,350,031 B1	02-26-2002	Lashkari et al.	
	US173	6,390,623 B1	05-21-2002	Kokonaski et al.	
	US174	6,396,622 B1	05-28-2002	Alden	
	US175	6,412,941	07-01-2002	Xiao	
	US176	6,437,762 B1	08-20-2002	Birdwell	
	US177	6,437,925 B1	08-20-2002	Nishioka	
	US178	2002/0140899 A1	10-03-2002	Blum et al.	
	US179	6,464,363 B1	10-15-2002	Nishioka et al.	
/G.O./	US180	2002/0149739 A1	10-17-2002	Perrott et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 10 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US181	6,491,394 B1	12-10-2002	Blum et al.	
	US182	2002/0186346 A1	12-12-2002	Stantz et al.	
	US183	6,501,443 B1	12-31-2002	McMahon	
	US184	2003/0018383 A1	01-23-2003	Azar	
	US185	6,554,425 B1	04-29-2003	Roffman et al.	
	US186	2003/0095336 A1	05-01-2003	Floyd	
	US187	6,582,075	06-24-2003	Swab et al.	
	US188	6,595,634	07-22-2003	Pilat, Jr.	
	US189	2003/0151721 A1	08-14-2003	Lai et al.	
	US190	6,607,271 B2	08-19-2003	Bar et al.	
	US191	6,609,794 B2	08-26-2003	Levine	
	US192	6,614,408 B1	09-02-2003	Mann	
	US193	6,618,208	09-09-2003	Silver	
	US194	6,616,275 B1	09-09-2003	Dick et al.	
	US195	6,616,279 B1	09-09-2003	Davis et al.	
	US196	6,618,208 B1	09-09-2003	Silver	
	US197	6,626,532 B1	09-30-2003	Nishioka et al.	
	US198	6,631,001 B2	10-07-2003	Kuiseko	
	US199	2003/0210377 A1	11-13-2003	Blum et al.	
/G.O./	US200	2004/0000733 A1	01-01-2004	Swab et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 11 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US201	2004/0001180	01-01-2004	Epstein	
	US202	2004/000733	01-01-2004	Swab et al.	
	US203	2004/0008319 A1	01-15-2004	Lai et al.	
	US204	6,682,195 B2	01-27-2004	Dreher	
	US205	6,709,105 B2	03-23-2004	Menezes	
	US206	6,709,108 B2	03-23-2004	Levine et al.	
	US207	6,715,876	04-06-2004	Floyd	
	US208	6,719,425 B2	04-13-2004	Conner	
	US209	6,738,199 B2	05-18-2004	Nishioka et al.	
	US210	2004/0108971 A1	06-10-2004	Waldern et al.	
	US211	2004/0117011 A1	06-17-2004	Aharoni et al.	
	US212	2004/0130677 A1	07-08-2004	Liang et al.	
	US213	6,768,536 B2	07-27-2004	Okuwaki et al.	
	US214	6,772,448 B1	08-10-2004	Hockaday et al.	
	US215	6,774,871 B2	08-10-2004	Birdwell	
	US216	2004/0156012 A1	08-12-2004	Jannard et al.	
	US217	6,778,246 B2	08-17-2004	Sun et al.	
	US218	2004/0179280 A1	09-16-2004	Nishioka	
	US219	2004/0196435 A1	10-07-2004	Dick et al.	
/G.O./	US220	2004/0246440 A1	12-09-2004	Andino et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 12 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US221	6,833,938 B2	12-21-2004	Nishioka	
	US222	6,840,619 B2	01-11-2005	Dreher	
	US223	6,851,805 B2	02-08-2005	Blum et al.	
	US224	7,333,272	02-19-2005	Oh et al.	
	US225	6,866,386	03-15-2005	Chen	
	US226	6,871,951 B2	03-29-2005	Blum et al.	
	US227	2005/0073739 A1	04-07-2005	Meredith	
	US228	2005/0078274 A1	04-14-2005	Howell et al.	
	US229	6,883,916 B2	04-26-2005	Menezes	
	US230	6,886,938 B1	05-03-2005	Menezes	
	US231	6,893,124 B1	05-17-2005	Kurtin	
	US232	6,902,271 B2	06-07-2005	Perrott et al.	
	US233	2005/0124983 A1	06-09-2005	Frey et al.	
	US234	2005/0140922	06-30-2005	Bekerman et al.	
	US235	2005/0140924 A1	06-30-2005	Blum et al.	
	US236	6,918,670 B2	07-19-2005	Blum et al.	
	US237	6,938,277	09-01-2005	Lindahl	
	US238	6,948,818 B2	09-27-2005	Williams et al.	
	US239	2005/0237477	10-01-2005	Lindahl	
/G.O./	US240	6,951,391 B2	10-04-2005	Morris et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 13 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US241	2005/0225723 A1	10-13-2005	Pilu	
	US242	6,955,433 B1	10-18-2005	Wooley et al.	
	US243	6,956,682 B2	10-18-2005	Wooley	
	US244	2005/0237485 A1	10-27-2005	Blum et al.	
	US245	2005/0239502 A1	10-27-2005	Swab et al.	
	US246	2005/0242771	11-03-2005	Blum et al.	
	US247	2005/0248719 A1	11-10-2005	Howell et al.	
	US248	2005/0264752 A1	12-01-2005	Howell et al.	
	US249	2005/270479	12-08-2005	Canavan et al.	
	US250	2005/270481	12-08-2005	Blum et al.	
	US251	2006/0001827 A1	01-05-2006	Howell et al.	
	US252	6,986,579 B2	01-17-2006	Blum et al.	
	US253	2006/0023158 A1	02-02-2006	Howell et al.	
	US254	2006/0044510 A1	03-02-2006	Williams et al.	
	US255	7,009,757	03-07-2006	Nishioka et al.	
	US256	7,008,054 B1	03-07-2006	Kurtin et al.	
	US257	7,009,757 B2	03-07-2006	Nishioka et al.	
	US258	7,019,890 B2	03-28-2006	Meredith et al.	
	US259	7,030,411	04-01-2006	Krulevitch et al.	
/G.O./	US260	2006/0077562	04-13-2006	Silver	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 14 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US261	7,030,411 B2	04-18-2006	Krulevitch et al.	
	US262	2006/0092340 A1	05-04-2006	Blum et al.	
	US263	7,041,133 B1	05-09-2006	Azar	
	US264	7,063,420	06-20-2006	Lerner et al.	
	US265	2006/0164593 A1	07-27-2006	Peyghambarian et al.	
	US266	7,085,065 B2	08-01-2006	Silver	
	US267	7,090,348 B2	08-15-2006	Nason et al.	
	US268	7,104,645	09-12-2006	Pilat, Jr.	
	US269	2006/0203186 A1	09-14-2006	Ifergan	
	US270	7,133,172 B2	11-07-2006	Nishioka	
	US271	2006/0250699	11-09-2006	Silver	
	US272	7,140,727	11-28-2006	Pilat, Jr. et al.	
	US273	7,142,369	11-28-2006	Wu et al.	
	US274	7,159,983 B2	01-09-2007	Menezes et al.	
	US275	2007/0059503 A1	03-15-2007	Park et al.	
	US276	2007/0091257 A1	04-01-2007	Spivey	
	US277	7,209,097 B2	04-24-2007	Suyama et al.	
	US278	2007/121061	05-31-2007	Kim	
	US279	7,229,173 B2	06-12-2007	Menezes et al.	
/G.O./	US280	7,256,943	08-14-2007	Kobrin et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	15	of	17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US281	2007/0258039 A1	11-08-2007	Duston et al.	
	US282	2007/0263293	11-15-2007	Batchko et al.	
	US283	2007/0296918	12-27-2007	Blum et al.	
	US284	2008/0019015	01-24-2008	Fernandez et al.	
	US285	2008/0084532 A1	04-01-2008	Kurtin	
	US286	2008/0100792 A1	05-01-2008	Blum et al.	
	US287	7,369,321	05-06-2008	Ren et al.	
	US288	2008/0106695 A1	05-08-2008	Kokonaski et al.	
	US289	7,425,066	09-16-2008	Blum et al.	
	US290	2008/316420	10-25-2008	Agazarova	
	US291	7,452,075	11-01-2008	Luliano	
	US292	2008/0273166 A1	11-06-2008	Kokonaski et al.	
	US293	2008/273166	11-06-2008	Kokonaski	
	US294	7,453,646	11-18-2008	Lo	
	US295	2009/0002626 A1	01-01-2009	Wakabayashi	
	US296	2009/0116118 A1	05-01-2009	Frazier et al.	
	US297	7,553,019	06-30-2009	Kulper et al.	
	US298	2009/0201460 A1	08-13-2009	Blum et al.	
	US299	2009/213471	08-27-2009	Silver et al.	
/G.O./	US300	7,594,726	09-29-2009	Silver	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 16 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US301	2009/0256977 A1	10-15-2009	Haddock et al.	
	US302	2010/0039709	02-18-2010	Lo	
	US303	7,675,686	03-09-2010	Lo et al.	
	US304	2010/0177277 A1	07-15-2010	Kokonaski et al.	
	US305	2010/0201938	08-12-2010	Jackson et al.	
	US306	2010/0208194	08-19-2010	Gupta et al.	
	US307	2010/0208195	08-19-2010	Gupta et al.	
	US308	7,782,541	08-24-2010	Oh et al.	
	US309	7,784,935	08-31-2010	Jackson et al.	
	US310	7,806,525	10-01-2010	Howell et al.	
	US311	7,813,048	10-12-2010	Lynch et al.	
	US312	2010/0265456 A1	10-21-2010	Matsui	
	US313	2010/0271588 A1	10-28-2010	Kokonaski et al.	
	US314	2010/0309426	12-09-2010	Howell et al.	
	US315	7,850,304 B2	12-14-2010	Jacobs et al.	
	US316	2011/0058141 A1	03-10-2011	Cozzani	
	US317	8,016,415 B2	09-13-2011	Figler et al.	
	US318	2012/0002159 A1	01-05-2012	Blum et al.	
	US319	2012/0002160 A1	01-05-2012	Blum et al.	
/G.O./	US320	2012/0127420 A1	05-24-2012	Blum et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08a (07-09)

Substitute for form 1449/PTO	Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 17 of 17	Attorney Docket Number	3585.1260000

U.S. PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/G.O./	US321	2012/0262667 A1	10-18-2012	Willey	
	US322	8,337,014 B2	12-25-2012	Kokonaski et al.	
	US323	2013/0010256 A1	01-10-2013	Haddock et al.	
	US324	2013/0201439 A1	08-08-2013	Kokonaski et al.	
	US325	2013/0250233 A1	09-26-2013	Blum et al.	
/G.O./	US326	8,922,902 B2	12-30-2014	Blum et al.	

FOREIGN PATENT DOCUMENTS

Examiner initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

2008535

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	Application Number	13/890,809
	Filing Date	May 9, 2013
	First Named Inventor	Ronald D. BLUM
	Art Unit	2872
	Examiner Name	O'NEILL, Gary William
Sheet 1 of 6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
/G.O./	NPL1	"Hearing Mojo: Varibel Hearing-Aid Glasses Integrate Eight Directional Microphones," February 27, 2009, pages 1-4, URL-http://hearingmojo.com/blog-mt/blog-mt/2006/04/varibel_hearingaid_glasses_dou.html	
	NPL2	Anderson, M.; Adaptive Optics: Liquid Crystals Lower the Cost of Adaptive Optics; Laser Focus World, December 1999	
	NPL3	Bradley, Arthur; Profile: Larry N. Thibos, PhD., and Donald T. Miller, PhD.; Indiana Journal of Optometry; Spring 1999; Vol. 2, No. 1	
	NPL4	International Preliminary Report on Patentability corresponding to the PCT/US2011/042882 application	
	NPL5	International Search Report cited in PCT/US2011/029419 application	
	NPL6	International Search Report corresponding to the PCT/US2011/042048 application	
	NPL7	Davis, Robert A.; Computer Vision Syndrome- The Eyestrain Epidemic; Review of Optometry, September 15, 1997	
	NPL8	Donald T. Miller, Xin Hong, and Larry N. Thibos, "Requirements for segmented spatial light modulators for diffraction-limited imaging through aberrated eyes," G.D. Love, ed. *Proceedings of the 2nd International Workshop on Adaptive Optics for Industry and Medecine,* World Scientific, Singapore, 63-68 (July 1999)	
	NPL9	European Search Report in related EP07852880.9 application	
/G.O./	NPL10	Eyecare Business, October 1997	

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	2	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
/G.O./	NPL11	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2008/058056, mailed November 10, 2009; 6 pages	
	NPL12	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2010/020498, issued July 12, 2011; 9 pages	
	NPL13	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/042882, issued January 8, 2013; 11 pages	
	NPL14	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/042883, issued January 8, 2013; 9 pages	
	NPL15	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/043591, issued January 15, 2013; 10 pages	
	NPL16	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/061495, issued May 21, 2013; 8 pages	
	NPL17	International Preliminary Report on Patentability and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2011/061505, issued May 21, 2013; 14 pages	
	NPL18	International Search Report and Written Opinion in corresponding PCT/US2008/058056 application	
	NPL19	International Search Report and Written Opinion of the International Searching Authority directed to related International Patent Application No. PCT/US2008/058056, mailed July 17, 2008; 7 pages	
/G.O./	NPL20	International Search Report corresponding to the PCT/US2011/042882 application	

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	3	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
/G.O./	NPL21	International Search Report corresponding to the PCT/US2011/042883 application	
	NPL22	International Search Report corresponding to the PCT/US2011/043591 application	
	NPL23	International Search Report corresponding to the PCT/US2011/061495 application	
	NPL24	International Search Report corresponding to the PCT/US2011/061505 application	
	NPL25	International Search Report directed to related International Patent Application No. PCT/US2008/058056, mailed July 17, 2008; 1 page	
	NPL26	International Search Report directed to related International Patent Application No. PCT/US2010/020498, mailed June 25, 2010; 5 pages	
	NPL27	International Search Report directed to related International Patent Application No. PCT/US2011/042882, mailed February 15, 2012; 6 pages	
	NPL28	International Search Report directed to related International Patent Application No. PCT/US2011/042883, dated February 7, 2012; 7 pages	
	NPL29	International Search Report directed to related International Patent Application No. PCT/US2011/043591, mailed February 3, 2012; 7 pages	
/G.O./	NPL30	International Search Report directed to related International Patent Application No. PCT/US2011/061495, mailed February 29, 2012; 3 pages	

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	4	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
/G.O./	NPL31	International Search Report directed to related International Patent Application No. PCT/US2011/061505, mailed May 25, 2012; 7 pages	
	NPL32	International Search Report directed to related International Patent Application No. PCT/US2012/051202, mailed January 15, 2013; 4 pages	
	NPL33	Kowel, Stephen T., et al; Focusing by electical modulation of refraction in a liquid crystal cell; Applied Optics; 15 January 1984; Vol. 23, No. 2	
	NPL34	Lazarus, Stuart M.; The Use of Yoked Base-Up and Base-In Prism for Reducing Eye Strain at the Computer; Journal of the American Optometric Association, April 1996	
	NPL35	Liquid Lenses Eye Commercial Breakthrough; Opto & Laser Europe, November 2003	
	NPL36	Naumov, A.F.; Control Optimization of Spherical Modal Liquid Crystal Lenses; Optics Express, 26 April1999; Vol. 4, No.9; Optical Society of America	
	NPL37	Naumov, A.F.; Liquid Crystal Adaptive Lenses with Modal Control; Optics Letters, 1 July 1998, Vol. 23, No. 13; Optical Society of America	
	NPL38	Partial International Search Report corresponding to PCT/US2012/051202 application	
	NPL39	Partial International Search Report in corresponding PCT/US2010/020498 application	
/G.O./	NPL40	Supplementary European Search Report directed to related European Patent Application No. 07852880.9 - 2217, mailed February 9, 2010; 7 pages	

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	5	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
/G.O./	NPL41	Thibos, Larry N., et al.; Electronic Spectacles for the 21st Century, Indian Journal of Optometry, Spring 1999; Vol. 2, No. 1	
	NPL42	Thibos, Larry N., et al.; Use of Liquid-Crystal Adaptive-Optics to Alter the Refractive State of the Eye; Optometry and Vision Science; July 1997; Vol. 74, No. 7; American Academy of Optometry	
	NPL43	Thibos, Larry N., et al.; Vision through a liquid-crystal spatial light modulator; Adaptive Optics Conference; July 1999; Durham, UK	
	NPL44	Miller, Donald T., et al.; Requirements for Segmented Spatial Light Modulators for Diffraction-Limited Imaging Through Aberrated Eyes; Adaptive Optics Conference; July 1999; Durham, UK	
	NPL45	U.S. provisional patent application no. 60/796,876, filed on May 3, 2006	
	NPL46	U.S. provisional patent application no. 60/854,677, filed on October 27, 2006	
	NPL47	U.S. provisional patent application no. 60/854,697, filed on October 27, 2006	
	NPL48	U.S. provisional patent application no. 61/326,703, filed on April 22, 2010	
	NPL49	U.S. provisional patent application no. 61/358,447, filed on June 25, 2010	
/G.O./	NPL50	U.S. provisional patent application no. 61/361,110, filed on July 2, 2010	

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

Equivalent of Form PTO/SB/08b (7-09)

Substitute for form 1449/PTO				*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				Application Number	13/890,809
				Filing Date	May 9, 2013
				First Named Inventor	Ronald D. BLUM
				Art Unit	2872
				Examiner Name	O'NEILL, Gary William
Sheet	6	of	6	Attorney Docket Number	3585.1260000

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T[2]
/G.O./	NPL51	U.S. provisional patent application no. 61/362,877 filed July 9, 2010	
	NPL52	U.S. provisional patent application no. 61/366,746, filed on July 22, 2010	
	NPL53	U.S. provisional patent application no. 61/376,719, filed on August 25, 2010	
	NPL54	U.S. provisional patent application no. 61/382,963, filed on September 15, 2010	
	NPL55	U.S. provisional patent application no. 61/415,391, filed on November 19, 2010	
	NPL56	U.S. provisional patent application no. 61/441,817 filed on February 11, 2011	
/G.O./	NPL57	U.S. provisional patent application no. 61/481,353 filed on May 2, 2011	

2008536

Examiner Signature	/Gary O'neill/	Date Considered	06/24/2015

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /G.O./

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	(US-20060132382-$).did.	US-PGPUB	OR	ON	2015/06/24 11:34
L2	1	1 and (insulat$5 or grease or acrylic or silicone or urethane or epoxy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 11:35
L3	1	(US-5455638-$).did.	USPAT	OR	ON	2015/06/24 11:46
L4	1	3 and (insulat$5 or grease or acrylic or silicone or urethane or epoxy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 11:46
L5	1	(US-6824265-$).did.	USPAT	OR	ON	2015/06/24 11:51
L6	1	(US-4520238-$).did.	USPAT	OR	ON	2015/06/24 11:51
L7	2	L5 or L6	USPAT	OR	ON	2015/06/24 11:51
L8	2	7 and (insulat$5 or grease or acrylic or silicone or urethane or epoxy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 12:12
L345	342	US-2437642-$.DID. OR US-2576581-$.DID. OR US-2930857-$.DID. OR US-3161718-$.DID. OR US-3245315-$.DID. OR US-3309162-$.DID. OR US-3614215-$.DID. OR US-3738734-$.DID. OR US-3791719-$.DID. OR US-4062629-$.DID. OR US-4152846-$.DID. OR US-4174156-$.DID. OR US-4181408-$.DID. OR US-4190330-$.DID. OR US-4243306-$.DID. OR US-4264154-$.DID. OR US-4279474-$.DID. OR US-4283127-$.DID. OR US-4300818-$.DID. OR US-4320939-$.DID. OR US-1563929-$.DID. OR US-2170613-$.DID. OR US-4373218-$.DID. OR US-4395736-$.DID. OR US-4418990-$.DID. OR US-4423929-$.DID. OR US-4431262-$.DID. OR US-4457585-$.DID. OR US-4461550-$.DID. OR US-4466703-$.DID. OR US-4466706-$.DID. OR US-4529268-$.DID. OR US-4537479-$.DID. OR	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2015/06/24 13:28

		US-4564267-$.DID. OR US-4572616-$.DID. OR US-4577928-$.DID. OR US-4601545-$.DID. OR US-4609824-$.DID. OR US-4712870-$.DID. OR US-4756605-$.DID. OR US-4772094-$.DID. OR US-D298250-$.DID. OR US-2169417-$.DID. OR US-4787733-$.DID. OR US-4787903-$.DID. OR US-4795248-$.DID. OR US-4813777-$.DID. OR US-4818095-$.DID. OR US-4836652-$.DID. OR US-4842400-$.DID. OR US-4875030-$.DID. OR US-4880300-$.DID. OR US-4890903-$.DID. OR US-4904063-$.DID. OR US-4907860-$.DID. OR US-4909626-$.DID. OR US-4919520-$.DID. OR US-4921728-$.DID. OR US-5011990-$.DID. OR US-4927241-$.DID. OR US-4929865-$.DID. OR US-4930884-$.DID. OR US-4944584-$.DID. OR US-4952788-$.DID. OR US-4955712-$.DID. OR US-4958907-$.DID. OR US-4961639-$.DID. OR US-4967268-$.DID. OR US-4968127-$.DID. OR US-4981342-$.DID. OR US-4991258-$.DID. OR US-4991951-$.DID. OR US-5015086-$.DID. OR US-5030882-$.DID. OR US-5050981-$.DID. OR US-5066301-$.DID. OR US-5067795-$.DID. OR US-5073021-$.DID. OR US-5076665-$.DID. OR US-5089023-$.DID. OR US-5091801-$.DID. OR US-5108169-$.DID. OR US-5114218-$.DID. OR US-1011200-$.DID. OR US-5114628-$.DID. OR US-5130856-$.DID. OR US-5142411-$.DID. OR US-5150234-$.DID. OR US-5171266-$.DID. OR US-5182585-$.DID. OR US-5184156-$.DID. OR US-5200859-$.DID. OR US-5208688-$.DID. OR US-5229885-$.DID. OR US-5231430-$.DID. OR US-5239412-$.DID. OR US-D342063-$.DID. OR US-5305028-$.DID. OR US-5306926-$.DID. OR US-5319397-$.DID. OR US-5324930-$.DID. OR US-D350342-$.DID. OR US-5352886-$.DID. OR US-5359444-$.DID. OR US-5375006-$.DID. OR US-5382986-$.DID. OR US-5386308-$.DID. OR US-5739959-$.DID. OR US-5424927-$.DID. OR US-5774273-$.DID. OR US-5440357-$.DID. OR US-5443506-$.DID. OR US-5451766-$.DID. OR US-5455638-$.DID. OR US-5463428-$.DID. OR US-5488439-$.DID. OR US-5489302-$.DID. OR US-5522323-$.DID. OR US-5526067-$.DID. OR US-5552841-$.DID. OR US-5608567-$.DID. OR US-5615588-$.DID. OR WO-2006126881-$.DID. OR WO-20061235960-$.DID. OR WO-2007142520-$.DID. OR WO-2007142602-$.DID. OR WO-2008002388-$.DID. OR WO-					

		200802407-$.DID. OR JP-2008083299-$.DID. OR WO-2008045283-$.DID. OR US-5654789-$.DID. OR US-5657107-$.DID. OR US-5668620-$.DID. OR US-5682223-$.DID. OR US-5683457-$.DID. OR US-1265686-$.DID. OR US-5710615-$.DID. OR US-5712721-$.DID. OR US-5728155-$.DID. OR US-5742379-$.DID. OR US-5760869-$.DID. OR US-5764338-$.DID. OR US-5777719-$.DID. OR US-5815233-$.DID. OR US-5815239-$.DID. OR US-5835185-$.DID. OR US-5861936-$.DID. OR US-5877876-$.DID. OR WO-2008046858-$.DID. OR EP-1916561-$.DID. OR WO-2008051520-$.DID. OR WO-2008115251-$.DID. OR WO-2009081542-$.DID. OR WO-2009098719-$.DID. OR WO-2009109749-$.DID. OR WO-2009126946-$.DID. OR US-5900720-$.DID. OR US-5949521-$.DID. OR US-5953098-$.DID. OR US-5956183-$.DID. OR US-5963300-$.DID. OR US-5971540-$.DID. OR US-5980037-$.DID. OR US-5999328-$.DID. OR US-6040947-$.DID. OR US-6050687-$.DID. OR US-6069742-$.DID. OR US-6086203-$.DID. OR US-6086204-$.DID. OR US-6095651-$.DID. OR US-6097450-$.DID. OR US-6099117-$.DID. OR US-6115177-$.DID. OR US-6145987-$.DID. OR US-6163926-$.DID. OR WO-2009125184-$.DID. OR WO-2009136667-$.DID. OR JP-09294654-$.DID. OR WO-2010062504-$.DID. OR WO-2010080999-$.DID. OR EP-2233964-$.DID. OR WO-2011119601-$.DID. OR US-6213602-$.DID. OR US-6191881-$.DID. OR US-6270220-$.DID. OR US-6271915-$.DID. OR US-6288846-$.DID. OR US-20010043266-$.DID. OR US-6325508-$.DID. OR US-20010055094-$.DID. OR US-6336250-$.DID. OR US-6350031-$.DID. OR US-6390623-$.DID. OR US-6396622-$.DID. OR US-6412941-$.DID. OR US-6437762-$.DID. OR US-6437925-$.DID. OR US-20020140899-$.DID. OR US-6464363-$.DID. OR US-20020149739-$.DID. OR US-20020186346-$.DID. OR US-20030018383-$.DID. OR US-6554425-$.DID. OR US-20030095336-$.DID. OR US-6582075-$.DID. OR US-6595634-$.DID. OR US-20030151721-$.DID. OR US-6607271-$.DID. OR US-6609794-$.DID. OR US-6614408-$.DID. OR US-6618208-$.DID. OR US-6616275-$.DID. OR US-6616279-$.DID. OR US-6626532-$.DID. OR US-6631001-$.DID. OR				

		US-20030210377-$.DID. OR US-20040000733-$.DID. OR US-20040001180-$.DID. OR US-20040008319-$.DID. OR US-6682195-$.DID. OR US-6709105-$.DID. OR US-6709108-$.DID. OR US-6715876-$.DID. OR US-6719425-$.DID. OR US-6738199-$.DID. OR US-20040108971-$.DID. OR US-20040117011-$.DID. OR US-20040130677-$.DID. OR US-6768536-$.DID. OR US-6772448-$.DID. OR US-6774871-$.DID. OR US-20040156012-$.DID. OR US-6778246-$.DID. OR US-20040179280-$.DID. OR US-20040196435-$.DID. OR US-20040246440-$.DID. OR US-6833938-$.DID. OR US-6840619-$.DID. OR US-6851805-$.DID. OR US-7333272-$.DID. OR US-6866386-$.DID. OR US-6871951-$.DID. OR US-20050073739-$.DID. OR US-20050078274-$.DID. OR US-6883916-$.DID. OR US-6886938-$.DID. OR US-6893124-$.DID. OR US-20050124983-$.DID. OR US-20050140922-$.DID. OR US-20050140924-$.DID. OR US-6918670-$.DID. OR US-6938277-$.DID. OR US-6948818-$.DID. OR US-20050237477-$.DID. OR US-6951391-$.DID. OR US-20050225723-$.DID. OR US-6955433-$.DID. OR US-6956682-$.DID. OR US-20050237485-$.DID. OR US-20050239502-$.DID. OR US-20050242771-$.DID. OR US-20050248719-$.DID. OR US-20050264752-$.DID. OR US-20060001827-$.DID. OR US-6986579-$.DID. OR US-20060023158-$.DID. OR US-20060044510-$.DID. OR US-7009757-$.DID. OR US-7008054-$.DID. OR US-7019890-$.DID. OR US-7030411-$.DID. OR US-20060077562-$.DID. OR US-20060092340-$.DID. OR US-7041133-$.DID. OR US-7063420-$.DID. OR US-20060164593-$.DID. OR US-7085065-$.DID. OR US-7090348-$.DID. OR US-7104645-$.DID. OR US-20060203186-$.DID. OR US-7133172-$.DID. OR US-7140727-$.DID. OR US-7142369-$.DID. OR US-7159983-$.DID. OR US-20070059503-$.DID. OR US-20070091257-$.DID. OR US-7229173-$.DID. OR US-20070258039-$.DID. OR US-20070263293-$.DID. OR US-20070296918-$.DID. OR US-20080019015-$.DID. OR US-20080084532-$.DID. OR US-20080100792-$.DID. OR US-7369321-$.DID. OR US-20080106695-$.DID. OR US-7425066-$.DID. OR US-				

		7452075-$.DID. OR US-20080273166-$.DID. OR US-1062008-$.DID. OR US-7453646-$.DID. OR US-20090002626-$.DID. OR US-20090116118-$.DID. OR US-7553019-$.DID. OR US-20090201460-$.DID. OR US-7594726-$.DID. OR US-20090256977-$.DID. OR US-20100039709-$.DID. OR US-7675686-$.DID. OR US-20100177277-$.DID. OR US-20100201938-$.DID. OR US-20100208194-$.DID. OR US-20100208195-$.DID. OR US-7782541-$.DID. OR US-7784935-$.DID. OR US-7806525-$.DID. OR US-7813048-$.DID. OR US-20100265456-$.DID. OR US-20100271588-$.DID. OR US-20100309426-$.DID. OR US-7850304-$.DID. OR US-20110058141-$.DID. OR US-8016415-$.DID. OR US-20120002159-$.DID. OR US-20120002160-$.DID. OR US-20120127420-$.DID. OR US-20120262667-$.DID. OR US-8337014-$.DID. OR US-20130010256-$.DID. OR US-20130201439-$.DID. OR US-20130250233-$.DID. OR US-8922902-$.DID. OR US-2008535-$.DID. OR US-151997D-$.DID. OR US-1061505-$.DID. OR US-3890809-$.DID. OR US-2008536-$.DID.				
L346	0	6 and 345	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 14:34
L347	17064	351/41-158.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L348	9755	351/159.$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L349	628	351/178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L350	26018	L347 or L348 or L349	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L351	891	G02C7/083.cpc. or G02C7/101.cpc.	US-PGPUB;	OR	ON	2015/06/24

			USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB			16:11
L352	1160	351/90-102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L353	891	G02C7/083.cpc. or G02C7/101.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L354	891	L353	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L355	17431	351/41-158,178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L356	366	G02C11/06.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L357	786	G02C11/10.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L358	17903	L355 or L356 or L357	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L359	26808	351/41-178.ccls. or L350 or L351 or L358 or L352 or L354	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:11
L360	4397	L359 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2015/06/24 16:13

		or proofed or tight or tightly)	IBM_TDB			
L361	766	360 and (electronics or electrical or battery or batteries or microchip or processor or antenna or computer$4 or electroactive or electro-active or control$5 or microprocess$4 or circuit$4 or chip or "IC" or microelectronic$4 or micro-electronic$4 or microelectric$4 or micro-electric$4 or microcontrol$4 or micro-control$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:13
L362	3051	360 and ((eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:16
L363	1685	362 and ((eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:18
L364	357	363 and ((electronics or electrical or battery or batteries or microchip or processor or antenna or computer$4 or electroactive or electro-active or control$5 or microprocess$4 or circuit$4 or chip or "IC" or microelectronic$4 or micro-electronic$4 or microelectric$4 or micro-electric$4 or microcontrol$4 or micro-control$4)).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:19
L365	77	364 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or tight or tightly).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:22
L366	77	365 and (electronics or electrical or battery or batteries or microchip or processor or antenna or computer$4 or electroactive or electro-active or control$5 or microprocess$4 or circuit$4 or chip or "IC" or microelectronic$4 or micro-electronic$4 or microelectric$4 or micro-electric$4 or microcontrol$4 or micro-control$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:23
L367	77	365 or 366	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 16:24
L368	1	(US-20080002141-$).did.	US-PGPUB	OR	ON	2015/06/24 16:27

L369	62422	BLUM.in. or KOKONASKI.in. or LONGA.in. or GRAHAM.in. or HADDOCK.in. or WILLEY.in. or TABACCHI.in. or BOCK.in. or PINAZZA.in. or RICHMAN.in. or OZGUZ.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 18:41
L370	123031	mitsui.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 18:42
L371	185436	369 or 370	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 18:42
L372	23775	371 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or tight or tightly)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 18:43
L373	3510	372 and (electronics or electrical or battery or batteries or microchip or processor or antenna or computer$4 or electroactive or electro-active or control$5 or microprocess$4 or circuit$4 or chip or "IC" or microelectronic$4 or micro-electronic$4 or microelectric$4 or micro-electric$4 or microcontrol$4 or micro-control$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 18:46
L374	159	373 and ((eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 18:47
L375	1	(US-20130215374-$).did.	US-PGPUB	OR	ON	2015/06/24 18:51
L376	34	"9028062".pn. or "8979259".pn. or "8944590".pn. or "8905541".pn. or "20140293215".pn. or EP2745167.pn. or "8708483".pn. or "20140104566".pn. or AU2012296482.pn. or "20130278881".pn. or "20130242253".pn. or "20130201439".pn. or "20130070198".pn. or CA2844986.pn. or WO2013025933.pn. or "20130010256".pn. or "8337014".pn. or "20120127420".pn. or "20120127423".pn. or "20120002160".pn. or "20120002159".pn. or "20100271588".pn. or "20100177277".pn. or	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2015/06/24 19:04

		"20080273166".pn.				
S1	4	"2009081542".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:09
S2	5	"2009126946".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:09
S3	5	"2010080999".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S4	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S5	2	"5463428".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S6	2	"5764338".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:13
S7	0	"2008316420".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:14
S8	5	"2010080999".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:15
S9	5	"2009098719".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:15
S10	7	"2008002388".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT;	OR	ON	2013/09/12 15:15

			IBM_TDB			
S11	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:15
S12	2	"20050237485".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:16
S13	2	"20050225723".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:16
S14	2	"6115177".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:17
S15	2	"5742379".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:17
S16	2	"6719425".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:17
S17	4	"4418990".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:18
S18	3	"4991951".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:19
S19	3	"2007258039".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:19
S20	5	"2930857".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT;	OR	ON	2013/09/12 15:20

			IBM_TDB			
S21	5	"2007121061".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:20
S22	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:21
S23	62	S1 or S2 or S3 or S4 or S5 or S6 or S8 or S9 or S10 or S11 or S12 or S13 or S14 or S15 or S16 or S17 or S18 or S19 or S20 or S21 or S22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 15:23
S24	1	"20080273166".pn.	US-PGPUB	OR	ON	2013/09/12 15:51
S25	3	S23 or S24	US-PGPUB	OR	ON	2013/09/12 16:05
S26	63	S23 or S24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:05
S27	16	S26 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or liquid or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:19
S28	0	("2008/0273166").URPN.	USPAT	OR	ON	2013/09/12 16:26
S29	15772	351/41-158.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:36
S30	7988	351/159.$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:36
S31	503	351/178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT;	OR	ON	2013/09/12 16:37

			IBM_TDB			
S32	90	351/159.03.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:37
S33	17	351/159.4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:37
S34	750	351/153.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:37
S35	23094	S29 or S30 or S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:38
S36	4948	S35 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:38
S37	267	G02C7/083.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:41
S38	504	G02C7/083.cpc. or G02C7/101.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:43
S39	255	S38 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:43
S40	5032	S36 or S39	US-PGPUB; USPAT;	OR	ON	2013/09/12 16:44

			USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			
S41	2932767	glasses or eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:45
S42	4100	S40 and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:46
S43	755	S42 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:47
S44	171	S43 and silicone	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:48
S45	2	S44 and grease	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:49
S46	84	S44 and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:50
S47	1	S46 and grease	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 16:51
S48	1	S43 and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) and (silicone near6 grease)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:40
S49	1769	S41 and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) and (silicone near6 grease)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:41

S50	1	S43 and S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:41
S51	148	S49 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:41
S52	147	S51 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:42
S53	137	S52 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:43
S54	254107	(glasses or eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:43
S55	4	S53 and S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:43
S56	133	S53 not S55	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:45
S57	0	S56 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:46
S58	1556	(silicone near6 (paste or compound or oil or viscosity or lubrican$4 or grease)) and (eyeglasses or eye-	US-PGPUB; USPAT; USOCR;	OR	ON	2013/09/12 18:49

		glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S59	97	(silicone near6 (paste or compound or oil or viscosity or lubrican$4 or grease)) same(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:49
S60	11	S59 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:50
S61	155	S58 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:56
S62	144	S61 not S60	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:56
S63	0	S62 and ((silicone near6 (paste or compound or grease)) same (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:57
S64	30	S62 and ((silicone near6 (paste or compound or grease)) and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 18:57
S65	1	S62 and ((silicone near6 (grease)) and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:00
S66	165	S41 and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) near6 (silicone near6 grease))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:02
S67	2	S66 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2013/09/12 19:03

			DERWENT; IBM_TDB			
S68	49	(silicone near6 (paste or grease)) and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:05
S69	45	S68 not (S60 or S65 or S67)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:05
S70	2	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric) near6 (silicone near6 grease))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:17
S71	3	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((conduct$6 or wire) near6 (silicone near6 grease))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:19
S72	11	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((conduct$6 or wire) and (silicone near6 grease)) and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:21
S73	65	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((conduct$6 or wire) and (silicone and grease)) and (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:21
S74	54	S73 not S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:22
S75	107	S32 or S33	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:25

S76	38	S75 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:25
S77	0	S76 and (grease or paste)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:26
S78	38	S76 not S72	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:26
S79	2	"20100076553".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:36
S80	1	S79 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 19:36
S81	126	("20010043266" | "20050237485" | "20050264752" | "20070296918" | "7784935" | "20050270479" | "20060203186" | "20080106695" | "5764338" | "6626532" | "20050078274" | "4152846" | "4875030" | "4967268" | "5463428" | "20020140899" | "20050242771" | "20100177277" | "4418990" | "4907860" | "5835185" | "6336250" | "7063420" | "20070121061" | "20070258039" | "20080316420" | "4991258" | "5742379" | "5760869" | "6595634" | "6719425" | "6866386" | "7813048" | "20110058141" | "20040000733" | "20050270481" | "20100309426" | "4283127" | "4991951" | "7104645" | "7140727" | "20010007493" | "20060231158" | "6097450" | "7009757" | "7425066" | "2930857" | "20050225723" | "20060092340" | "20080273166" | "20100201938" | "4756605" | "5182585" | "5657107" | "6115177" | "6582075").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 20:21
S82	5	"2006023158".pn.	US-PGPUB; USPAT;	OR	ON	2013/09/12 20:45

			USOCR; EPO; JPO; DERWENT; IBM_TDB			
S83	2	"20060231580".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 20:45
S84	2	"20060023158".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/12 20:46
S85	56	("20010043266" | "20050237485" | "20050264752" | "20070296918" | "7784935" | "20050270479" | "20060203186" | "20080106695" | "5764338" | "6626532" | "20050078274" | "4152846" | "4875030" | "4967268" | "5463428" | "20020140899" | "20050242771" | "20100177277" | "4418990" | "4907860" | "5835185" | "6336250" | "7063420" | "20070121061" | "20070258039" | "20080316420" | "4991258" | "5742379" | "5760869" | "6595634" | "6719425" | "6866386" | "7813048" | "20110058141" | "20040000733" | "20050270481" | "20100309426" | "4283127" | "4991951" | "7104645" | "7140727" | "20010007493" | "20060231158" | "6097450" | "7009757" | "7425066" | "2930857" | "20050225723" | "20060092340" | "20080273166" | "20100201938" | "4756605" | "5182585" | "5657107" | "6115177" | "6582075").PN.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2013/09/12 21:15
S86	24469	conduct$5 adj2 rubber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:08
S87	15772	351/41-158.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S88	7988	351/159.$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S89	503	351/178.ccls.	US-PGPUB; USPAT; USOCR;	OR	ON	2013/09/13 16:10

			EPO; JPO; DERWENT; IBM_TDB			
S90	23094	S87 or S88 or S89	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S91	22	S86 and S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S92	17	S91 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:10
S93	7	S92 and (grease or paste)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:11
S94	10	S92 not S93	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:14
S95	5	S91 not S92	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:24
S96	68	S86 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:29
S97	34	S96 and silicone	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 16:29
S98	21	S97 not S91	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2013/09/13 16:29

			EPO; JPO; DERWENT; IBM_TDB			
S99	1	(US-6772448-$).did.	USPAT	OR	ON	2013/09/13 16:45
S100	0	"2008273166".pn.	US-PGPUB	OR	ON	2013/09/13 17:20
S101	2	"2008273166".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:20
S102	1	"20080273166".pn.	US-PGPUB	OR	ON	2013/09/13 17:21
S103	0	"4991951".pn.	US-PGPUB	OR	ON	2013/09/13 17:21
S104	1	"4991951".pn.	USPAT	OR	ON	2013/09/13 17:22
S105	3	S99 or S102 or S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:22
S106	126	("20010043266" | "20050237485" | "20050264752" | "20070296918" | "7784935" | "20050270479" | "20060203186" | "20080106695" | "5764338" | "6626532" | "20050078274" | "4152846" | "4875030" | "4967268" | "5463428" | "20020140899" | "20050242771" | "20100177277" | "4418990" | "4907860" | "5835185" | "6336250" | "7063420" | "20070121061" | "20070258039" | "20080316420" | "4991258" | "5742379" | "5760869" | "6595634" | "6719425" | "6866386" | "7813048" | "20110058141" | "20040000733" | "20050270481" | "20100309426" | "4283127" | "4991951" | "7104645" | "7140727" | "20010007493" | "20060231158" | "6097450" | "7009757" | "7425066" | "2930857" | "20050225723" | "20060092340" | "20080273166" | "20100201938" | "4756605" | "5182585" | "5657107" | "6115177" | "6582075").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:59
S107	2	S105 and S106	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/13 17:59
S108	69172	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or	US-PGPUB; USPAT; USOCR;	OR	ON	2014/04/28 08:20

		sunglasses or sun-glasses or lens) same (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance)	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S109	2121	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) same (insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:27
S110	1284	S109 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:42
S111	354	S110 and (grease or paste or silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:44
S112	749	S110 and (grease or paste or silicone or coating)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:45
S113	806	S110 and (grease or paste or silicone or coating or coated)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:45
S114	167	S113 and (hinge or rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:48
S115	116	S114 and (silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:51
S116	36	S115 and ((grease or paste or coating or coated) same silicone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 08:52
S117	80	S115 not S116	US-PGPUB; USPAT;	OR	ON	2014/04/28 11:30

			USOCR; EPO; JPO; DERWENT; IBM_TDB			
S118	51	S114 not S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 11:56
S119	14	S118 and gasket	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 11:56
S120	1	(US-5835185-$).did.	USPAT	OR	ON	2014/04/28 12:10
S121	3	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance) same (rimlock or rim-lock))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:17
S122	8	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and ((insulat$5 or nonconduct$5 or non-conduct$5 or resistive or resistor or dielectric or impedance) and (rimlock or rim-lock))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:32
S123	5	S122 not S121	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:32
S124	694	351/86,154.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:38
S125	79	S124 and (grease or paste or silicone or coating or coated)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:39
S126	20	S125 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/04/28 12:41

			IBM_TDB			
S127	12	S126 and (grease or paste or coating or coated)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:42
S128	8	S126 not S127	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:45
S129	2	S128 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:45
S130	59	S125 not S126	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:46
S131	19	S130 and (conduct$5 or wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:46
S132	20	S130 and (conduct$5 or wire or cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:47
S133	109	S124 and (conduct$5 or wire or cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:48
S134	87	S133 not S125	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:49
S135	87	S134 and (conduct$5 or wires or cable)	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/04/28 12:49

			EPO; JPO; DERWENT; IBM_TDB			
S136	15	S135 and (conduct$5 or cable)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:49
S137	21	S124 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 12:53
S138	1	(US-7527374-$).did.	USPAT	OR	ON	2014/04/28 13:19
S139	154	S109 and ((grease or paste or coating or coated) same (silicone or (polymerized adj2 siloxanes) or polysiloxane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 13:23
S140	74	S109 and ((grease or paste or coating or coated) near5 (silicone or (polymerized adj2 siloxanes) or polysiloxane))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 13:24
S141	61	S140 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 13:24
S142	1	(US-20100265456-$).did.	US-PGPUB	OR	ON	2014/04/28 18:24
S143	14	("4285819" | "4612247" | "4681712" | "4798694" | "4868106" | "4935147" | "5076950" | "5279936" | "5283064" | "5319397" | "5536644" | "5642177" | "5770388").PN. OR ("6231703").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2014/04/28 21:04
S144	2	S143 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 21:05
S145	1	(US-6231703-$).did.	USPAT	OR	ON	2014/04/28 21:15
S146	1	(US-20100265456-$).did.	US-PGPUB	OR	ON	2014/04/28 21:16
S147	2	S145 or S146	US-PGPUB;	OR	ON	2014/04/28

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			21:16
S148	2	S147 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 21:16
S149	1	S148 and (grease or paste or gel or oil)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/28 21:17
S150	1	(US-6231703-$).did.	USPAT	OR	ON	2014/04/29 10:14
S151	1	(US-20100265456-$).did.	US-PGPUB	OR	ON	2014/04/29 10:14
S152	2	S150 or S151	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 10:14
S153	2	S152 and (silicone or (polymerized adj2 siloxanes) or polysiloxane)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 10:14
S154	1	S151 and (conduct$5 near rubber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 10:21
S155	12	"2007329719"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 14:42
S156	0	JP2008/003799	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:29
S157	0	JP20080003799	US-PGPUB;	OR	ON	2014/04/29

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			15:29
S158	8	"20080003799"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:29
S159	25	"2008003799"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:30
S160	0	WO2009081542	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:32
S161	9	"2009081542"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 15:32
S162	3985	(anisotropic and conduct$5 and rubber and (silicone or (polymerized adj2 siloxanes) or polysiloxane) and (grease or paste or gel or oil))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 18:59
S163	52	351/41-178.ccls. and S162	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:02
S164	1137	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near6 (grease or paste or gel or oil)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:05
S165	0	351/41-178.ccls. and S164	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	2014/04/29 19:05

			IBM_TDB			
S166	1684	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or paste or gel or oil)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:06
S167	44	351/41-178.ccls. and S166	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:06
S168	13	S164 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:09
S169	80	S166 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:13
S170	67	S169 not S168	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:13
S171	1758	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:15
S172	67	S170 and S171	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:15
S173	1137	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:20
S174	865	(anisotropic and conduct$5 and rubber and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS;	OR	ON	2014/04/29 19:20

			EPO; JPO; DERWENT; IBM_TDB			
S175	6	((anisotropic near4 conduct$5 near4 rubber) and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:21
S176	0	S175 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:22
S177	8	((anisotropic near4 conduct$5 near4 rubber) and ((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:24
S178	2	S177 not S175	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:24
S179	1186	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:27
S180	27	S179 and anisotropic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:27
S181	477	S179 and (rubber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:28
S182	11	S179 and (conduct$5 near4 rubber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:28
S183	21	S180 not S182	US-PGPUB;	OR	ON	2014/04/29

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			19:33
S184	121	S179 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm. and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:37
S185	108	S179 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant))).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:38
S186	107	S185 not (S180 or S177 or S175 or S172 or S170)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:40
S187	666	S179 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:46
S188	8092	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses) near6 (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:47
S189	52	S187 and S188	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:47
S190	163	351/159.39.ccls. or 351/159.4.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:55
S191	2	S179 and S190	US-PGPUB; USPAT; USOCR;	OR	ON	2014/04/29 19:55

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S192	2	S190 and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:56
S193	52	S188 and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:57
S194	0	S193 not S189	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 19:57
S195	677	S179 and (connect or connected or connector or connecting or connection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 20:08
S196	48	S179 and (((silicone or (polymerized adj2 siloxanes) or polysiloxane) same (grease or paste or gel or oil or lubricant))) same (connect or connected or connector or connecting or connection)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 20:09
S197	972	S179 not (S180 or S182 or S183 or S186 or S189 or S191 or S192 or S193 or S196)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 20:17
S198	76	S197 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 20:18
S199	1	(US-4243306-$).did.	USPAT	OR	ON	2014/04/29 20:27
S200	3	(eyewire or eye-wire or (eye adj2 wire)) near4 (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 23:07

S201	15	(eyewire or eye-wire or (eye adj2 wire)) same (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 23:09
S202	12	S201 not S200	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/29 23:10
S203	17	(eyewire or eye-wire or (eye adj2 wire)) and (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:27
S204	35	(upper or lower or top or bottom or halves or half) same (rimlock or rim-lock)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:27
S205	16	S203 and S204	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:28
S206	53305	(coat or coated or coating or film or dipped or dip or deposit or depositing or deposited or apply or applied or applying) same (insulating or insulated or insulation or nonconductive or non-conductive or nonconducting or non-conducting) same (frame or rim or eyewire or eye-wire or (eye adj2 wire))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:57
S207	1138	351/90-102.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:59
S208	0	S206 and S207	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 09:59
S209	37998	S206 and ((split$4 or bisect$5 or dual or two or upper or lower) same (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:02
S210	16194	S209 and ((split$4 or bisect$5 or dual or two or upper or lower) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	ON	2014/04/30 10:02

			DERWENT; IBM_TDB			
S211	11719	S210 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:06
S212	10147	S209 and ((electronics or electrical or conduct$4 or current or circuit or node) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:09
S213	5051	S211 and ((electronics or electrical or conduct$4 or current or circuit or node) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:09
S214	39	S213 and (eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 10:10
S215	1	(US-20100177277-$).did.	US-PGPUB	OR	ON	2014/04/30 10:29
S216	1	(US-20100177277-$).did.	US-PGPUB	OR	ON	2014/04/30 17:30
S217	1	(US-4243306-$).did.	USPAT	OR	ON	2014/04/30 17:31
S218	1	"20100265456".pn.	US-PGPUB	OR	ON	2014/04/30 17:31
S219	2	S216 or S217 or S218	US-PGPUB	OR	ON	2014/04/30 17:32
S220	3	S216 or S217 or S218	US-PGPUB; USPAT	OR	ON	2014/04/30 17:32
S221	697	G02C7/083.cpc. or G02C7/101.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 17:43
S222	697	S221	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 17:43
S223	214	S222 and ((electronics or electrical or conduct$4 or current or circuit or node) near6 (frame or rim or eyewire or eye-wire or (eye adj2 wire)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/04/30 17:44
S224	2	S223 and (((silicone or (polymerized	US-PGPUB;	OR	ON	2014/04/30

		adj2 siloxanes) or polysiloxane) near4 (grease or paste or gel or oil or lubricant)))	USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			17:44
S225	141458	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:49
S226	42370	S225 and (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or electroactive or electro-active)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:53
S227	19470	S225 same (electronics or electrical or battery or batteries or circuit or microchip or processor or antenna or computer$4 or electroactive or electro-active)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:54
S228	9712	S227 and (water or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or sweat or sweating or sweaty or salt or salted or salty or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed or rain or swim or swimming or swimmer or snow or snowing or weather or precipitation or condensation or wet or humid or humidity or fluid or liquid or damp)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 16:59
S229	769368	((conduct$5 or metal$5) near4 (rubber$5 or compress$5 or flexib$4 or coil or coiled or bend$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:09
S230	726	S228 and S229	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:09
S231	627	S230 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or GPS or (global adj position$5) or alarm$4 or hearing or ((virtual or augment$4) near3 reality) or gaming or audio or microphone or recording or transmitter or pedometer or 3D or 3-	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:18

		D)				
S232	549	S231 and (cable$2 or wire or connector or plug$4 or receptacle or multiconduct$5 or multi-conduct$5 or (multi$4 adj2 conduct$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:30
S233	13200	(eyeglasses or eye-glasses or (eye adj2 glasses) or spectacles or eyewear or eye-wear or (eye adj2 wear) or sunglasses or sun-glasses).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:30
S234	162	S232 and S233	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:31
S235	104	S234 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:37
S236	90	S235 and (electronics or electrical or battery or batteries or microchip or processor or antenna or computer$4 or electroactive or electro-active or control$5 or microprocess$4 or circuit$4 or chip or "IC" or microelectronic$4 or micro-electronic$4 or microelectric$4 or micro-electric$4 or microcontrol$4 or micro-control$4).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:51
S237	89	S236 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or ((virtual or augment$4) near3 reality) or gaming or 3D or 3-D)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:54
S238	58	S237 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or ((virtual or augment$4) near3 reality) or gaming or 3D or 3-D).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 17:54
S239	1	(US-20060132382-$).did.	US-PGPUB	OR	ON	2014/10/30 18:22
S240	2	"20060095128".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 18:38

S241	60841	BLUM.in. or KOKONASKI.in. or LONGA.in. or GRAHAM.in. or HADDOCK.in. or WILLEY.in. or TABACCHI.in. or BOCK.in. or PINAZZA.in. or RICHMAN.in. or OZGUZ.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:19
S242	13953	Pugh.in. or Otts.in. or Riall.in. or Snook.in. or Putt.in. or Kernick.in. or Flitsch.in. or Higham.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:26
S243	153256	Jannard.in. or Nattress.in. or Mathur.in. or DaSilva.in. or Land.in. or Rose.in. or Davis.in. or Neil.in. or Reyes.in. or Yee.in. or Thixton or Baden.in. or Arnette.in. or Tackels.in. or Houston.in. or Moritz.in. or Rohrbach.in. or Zentil.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:41
S244	226757	S241 or S242 or S243	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:41
S245	17	S236 and S244	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:42
S246	6	S245 not S238	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:42
S247	73	S236 not S245	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:44
S248	73	S225 and S247	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:44
S249	73	S248 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 19:45
S250	1	(US-5455638-$).did.	USPAT	OR	ON	2014/10/30 20:27
S251	1	(US-4520238-$).did.	USPAT	OR	ON	2014/10/30 20:28

S252	9	"20100265456".pn. or "42433068".pn. or "20080273166".pn. or "4991951".pn. or "6772448".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 20:57
S253	2	"20050239502".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:02
S254	2	"20090201460".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:02
S255	2	"20120262667".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:02
S256	2	"20130250233".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:03
S257	16629	351/41-158.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:20
S258	16979	351/41-158,178.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:21
S259	359	G02C11/06.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:32
S260	563	G02C11/10.cpc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:32
S261	17348	S258 or S259 or S260	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:34

S262	1410	S261 and ((water near3 resistant) or waterproof$4 or water-proof$4 or moisture or moistureproof$4 or moisture-proof$4 or hermetic or hermetically or seal or sealed or sealing or sealer or proof or proofing or proofed)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:34
S263	1381	S262 not (S238 or S245)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:35
S264	347	S263 and (electro-activ$4 or electroactiv$4 or electro-chromic$4 or electrochromic$4 or display$4 or sensor or sensing or sensed or ((virtual or augment$4) near3 reality) or gaming or 3D or 3-D)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:36
S265	188	S264 and (cable$2 or cord or wire or connector or multiconduct$5 or multi-conduct$5 or (multi$4 adj2 conduct$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:37
S266	63	S265 and (plug$4 or receptacle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:38
S267	9	S266 and (plug$4 and receptacle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:39
S268	54	S266 not S267	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/30 21:41
S269	1	(US-6824265-$).did.	USPAT	OR	ON	2014/10/31 01:05
S270	4	S239 or S250 or S251 or S269	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/31 01:05
S271	327074	((conduct$5 or (metal or metallic or metalic or metalized or metalization or metalizing)) near4 (elast$8 or rubber$5)) or (conductive near6 polymer near6 metal$4 near6 ion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/31 01:17

S272	2	S270 and S271	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2014/10/31 01:17
S273	1	(US-4520238-$).did.	USPAT	OR	ON	2014/10/31 02:07
S274	1	(US-5455638-$).did.	USPAT	OR	ON	2014/10/31 02:07
S275	1	(US-20060132382-$).did.	US-PGPUB	OR	ON	2014/10/31 02:07

6/24/2015 7:11:01 PM
C:\Users\goneill\Documents\EAST\Workspaces\13890809.wsp