



SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 11-166564-00000-0000

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Tra. 11 PATENTEIYII

Eve: 378 FASENACIONALI

Act. 411 PRESENTACION

Folios: 48

Industria y Comercio

S U P E R I N T E N D E N C I A

Delegatura de Propiedad Industrial
División de Nuevas Creaciones

SOLICITUD PATENTE DE INVENCION P C T

EXPEDIENTE No. _____

TÍTULO ANTEOJOS EXPANDIBLES CON CIERRE EN EL
PUENTE

SOLICITANTE LANDO, RON

DOMICILIO 408 Tamal Plaza Corte Madera, California 94925
ESTADOS UNIDOS ESTADOS UNIDOS

APODERADO JAIRO VALLEJO

BOGOTÁ, D.C. Noviembre 29 de 2011



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PETITORIO



SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



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Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 48

FORMULARIO UNICO DE SOLICITUD DE PATENTE PCT ENTRADA EN FASE NACIONAL

①

SOLICITUD DE:



Patente de Invención.



Patente de Modelo de Utilidad



Capitulo I.



Capitulo II

②

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Otro



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T.P. No. 9741

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SI



NO



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//

⑨

Comprobante de Pago N°.:

Fecha



Para publicar a partir de la fecha de la presente solicitud a los:

6 meses



12 meses



18 meses



Otro Inmediatamente

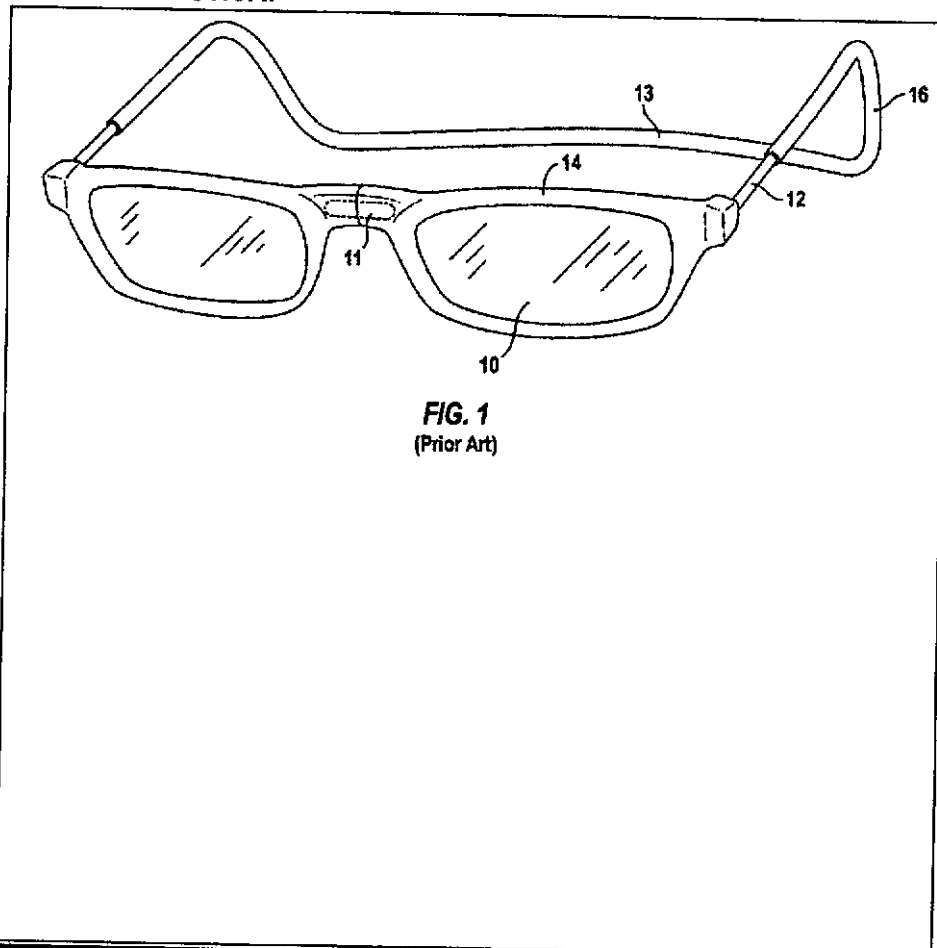


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ANEXOS

- ☒ Comprobante de pago de la tasa de presentación de la solicitud.
- ☐ Documento que acredita la existencia y representación legal cuando el solicitante sea persona jurídica.
- ☒ Poderes si fuere el caso.
- ☐ Documento de cesión del inventor al solicitante o a su causante.
- ☐ Declaraciones.
- ☐ Copia de la solicitud internacional. (Resumen, descripción, reivindicaciones, dibujos).
- ☒ Traducción de la solicitud internacional al castellano. (Resumen, descripción, reivindicaciones, dibujos).
- ☐ Copia del examen preliminar internacional efectuado por la Autoridad Internacional de Examen Preliminar (IPEA)
- ☐ Traducción del examen preliminar internacional efectuado por la IPEA.
- ☐ De ser el caso, copia del contrato de acceso.
- ☐ De ser el caso, documento que acredite la licencia o autorización de uso de conocimientos tradicionales de las comunidades indígenas
- ☐ De ser el caso, certificado de depósito del material biológico.
- ☒ Arte final 12 x 12
- ☐ De ser el caso, información sobre otras solicitudes de patente o títulos obtenidos en el extranjero por el mismo titular o su causante, relacionadas parcial o totalmente con la invención de esta solicitud.
- ☐ De ser el caso, modificaciones efectuadas a la solicitud internacional.
- ☐ Otros.

11) FIGURA CARACTERÍSTICA:



12) Solicito la concesión de la patente,

NOMBRE: JAIRO VALLEJOFIRMA: J. VallejoC.C.: 17.179.518

T.P. No. 9741



SECRETARY OF STATE

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APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Country: United States of America
This public document
2. has been signed by Saul Vazquez Calderon
3. acting in the capacity of Notary Public, State of California
4. bears the seal/stamp of Saul Vazquez Calderon, Notary Public, State of California
5. At Sacramento, California
6. the 8th day of August 2011
7. by Deputy Secretary of State, State of California
8. No. 30596
9. Seal/Stamp:



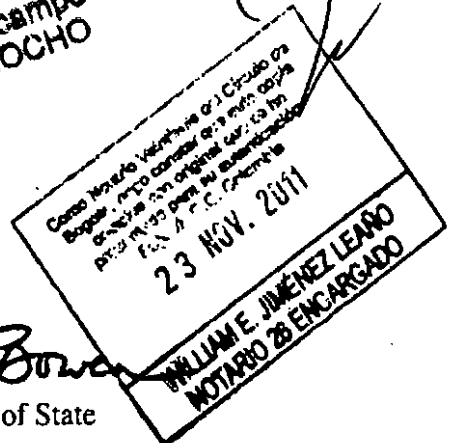
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29 NOV 2011

Pablo Julio Cruz Ocampo
NOTARIO VEINTIOCHO

10. Signature

Jana Bowe
Secretary of State

BY



REPRESENTACION Y PODER

Para patentes, modelos de utilidad, diseños industriales, marcas de fábrica, nombres comerciales, enseñas, lemas comerciales y nombres de dominio

REPRESENTATION AND POWER OF ATTORNEY

For patents, utility models, industrial designs, trademarks, commercial names, trade emblems, slogans and domain names.

Yo, abajo firmado / I, the undersigned

Ron Lando

domiciliado (s) en/of

408 Tama Plaza, Corte Madera, California 94925, Estados Unidos de América

por el presente nombro a JAIRO VALLEJO, TPA. 9741, C.C. 17.179.518 domiciliado en la Carrera 11A No. 93-52 Of. 704, Bogotá, Colombia, como mi apoderado en todos los asuntos de propiedad industrial con facultad para recibir notificaciones y nombrar apoderados judiciales o extrajudiciales.

Además, confiero poder al abogado arriba nombrado, para obtener la protección de mi propiedad industrial y contra la competencia desleal, a cuyo efecto autorizo a dicho apoderado para que me represente ante cualesquiera entidades o personas, ejerzan o no jurisdicción, especialmente ante las del orden administrativo, contencioso-administrativo y judicial, así como los tribunales de arbitramento, en todo lo concerniente a los siguientes asuntos:

a) Obtención de patentes de invención, modelos de utilidad y diseños industriales; el registro de marcas de fábrica, colectivas, defensivas, de servicio, lemas comerciales, nombres comerciales, enseñas, nombres de dominio, variedades vegetales y denominaciones de origen; su renovación, traspaso, cambio de nombre o domicilio, cancelación voluntaria; y el registro de licencias de uso de esos derechos;

b) Las acciones de competencia desleal, protección del consumidor, oposiciones u observaciones, cancelación administrativa o judicial, nulidad, medidas cautelares, concesión de licencias, la tutela, la protección de secretos industriales, y en general los juicios civiles, penales, administrativos o contencioso-administrativos relacionados con estos derechos; acciones y procesos que promovamos o se nos promuevan.

c) Obtención de un número de identificación tributaria y el registro ante la cámara de comercio competente. Y para que en todos los asuntos arriba determinados, puedan sustituir como mandata, transigir, contratar, admitir los hechos del proceso, desistir, cancelar, recibir, renunciar, y ratificar los actos de agentes oficiales.

do hereby appoint JAIRO VALLEJO, TP. 9741, C.C. 17.179.518, domiciled at Carrera 11A No. 93-52 Of. 704, Bogota, Colombia, as my attorney for all industrial property matters with faculty to receive notifications and to appoint attorneys in and out of Court.

In addition, we grant a Power of Attorney in favour of the attorney-at-law so that he may obtain the protection of my industrial property and against the unfair competition, for which purpose I authorise the said attorney to represent me before any authorities or persons, with or without jurisdiction, specially those administrative, administrative contentious and judicial, as well as before Arbitration Court, in all matters concerning the following:

a) Obtainment of patents, utility models and industrial designs; the registration of trademarks, collective, defensive and service marks, slogans, commercial names, trade emblems, domain names, vegetal varieties and denominations of origin; its renewal, assignment, change of name or domicile, voluntary cancellation; and the registration of licenses of use of the above rights;

b) Actions of unfair competition, protection to the consumer, oppositions or observations, administrative or Court cancellation, nullity, infringement, granting of licenses, the action for writ mandamus, the protection of trade secrets, and in general the civil, penal, and administrative suits relating to those rights; actions and suits instituted by me or against me.

c) Obtainment of a tax identification number and the register before the competent chamber of commerce.

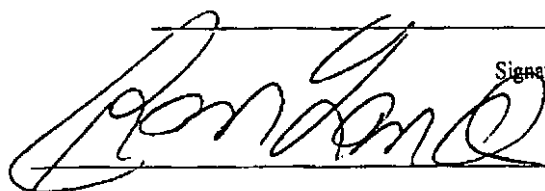
And that in all the above matters they may substitute this Power of Attorney, compromise, conciliate, admit the facts of the case, desist, cancel, receive, resign, and ratify acts done by representatives without a power of attorney, administrative suits relating to those rights, actions and suits instituted by me or against me.

Given and signed on / Dado y firmado hoy

29 NOV 2011
Pablo Julio Cruz Ocampo
NOTARIO VEINTIOCHO

Como Notario Verificador del C.O.C. de Bogotá, hago constar que esta acta es auténtica con original que se ha presentado para su autenticación
23 NOV. 2011
WILLIAM E. JIMÉNEZ LENZO
NOTARIO 28 ENCARGADO

in/en

 Signature/Firma 5/17/2011 CARTAGENA

Como Notario Veintiocho del Circulo de Bogota, hago constar que este documento coincide con original que se me presento para su autenticacion.
Bogota, D.C. Colombia
23 NOV. 2011
WILLIAM E. JIMENEZ LEANO
NOTARIO 28 ENCARGADO

EN BLANCO
NOTARIA VEINTISEIS

Como NOTARIO VEINTIOCHO DEL CIRCULO DE BOGOTA, D.C. Hago constar que esta fotocopia coincide en su contenido con un documento igual, que en fotocopia autenticada he tenido a la vista (Art. 38 Dec. 2148/88)

29 NOV 2011

Pablo Julio Cruz Ocampo
NOTARIO VEINTIOCHO

EN BLANCO
NOTARIA VEINTISEIS

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of Marin

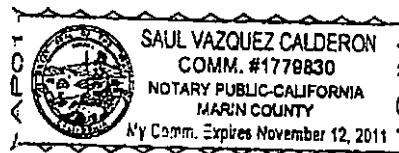
On May 17, 2011 before me, Saul Vazquez Calderon
(Here insert name and title of the officer)

personally appeared Ronald Lando

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature of Notary Public

(Notary Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Power of Attorney
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages 3 Document Date 5/17/11

N/A
(Additional information)

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ANTEOJOS EXPANDIBLES CON CIERRE EN EL PUENTE

CAMPO TECNICO:

La presente invención se refiere a unos anteojos o gafas mejorados con un broche o cierre en el puente.

ANTECEDENTES DE LA INVENCIÓN:

El solicitante es el propietario de la Patente U. S. 6.253.388. La invención se describe y se reclama en la patente '388 que involucra unos anteojos o gafas con un par de lentes, conectores desenganchables unidos a respectivos extremos interiores de los lentes, un par de brazos parietales pivotantes sobre los extremos externos de los lentes y un rígido collar o abrazadera unido a los extremos posteriores de los brazos parietales, dicho collar diseñado para colocarse bajo los lentes para no interferir con el cabello o el casco del usuario. Los extremos interiores de los lentes se diseñaron para ser de desenganche y fijación conjunta, preferiblemente magnetos. Para colocar los anteojos, los lentes se separan al comienzo uno de otro y se pivotan hacia fuera. El collar o abrazadera rodea entonces la nuca del usuario y los lentes se pivotan uno hacia otro y se aseguran frente a los ojos. Los lentes se diseñaron para separación instantánea así como para fácil colocación y remoción desde los anteojos, pero ellos se conectan instantáneamente a través de un medio seguro de fijación.

La figura 1 describe los anteojos descritos y reclamados en la patente '388 específicamente los lentes (10) van montados en sus respectivas monturas (14) los cuales se pivotan en los brazos parietales (12). Los conectores (11) se unen a los extremos internos de la montura (14). Los brazos (12) son de tipo telescópico para adaptarse a diferentes usuarios. Como se nota los brazos parietales (12) se diseñaron para pivotar en los extremos externos de la montura (14) e incluyen una porción a manera de gancho (16) que se adapta a

las orejas del usuario. El collar o abrazadera (13) está diseñado para colocarse bajo el plano de los lentes (10) sin interferencia con el cabello o el caso del usuario y con efecto resortado para retener su forma original al liberarse pero con la flexibilidad suficiente sin llegar al límite de rotura. Alternativamente el collar (13) se diseña para estar al mismo nivel de los brazos parietales (12) pero a riesgo de perder sus ventajas.

La patente U. S. 6.253.388 ha sido incorporada aquí como referencia.

La figura 2 describe un óvalo (50) correspondiente al cráneo de un usuario visto desde un plano superior. Los ejes mayores de la cabeza (50) se indican de frente a nuca como (21) y de parietal a parietal como (22).

La patente '388 tiene como un aspecto preferido la capacidad de alterar la longitud tanto en el collar como en los brazos parietales en el caso que el usuario tenga un eje (21) muy largo para minimizar la inadvertida separación de los lentes al desengancharse los conectores (11). Se ha encontrado que si un usuario tiene el eje (21) muy largo el uso normal de los anteojos resultaría en una separación de los lentes (10) uno de otro por un aflojamiento inadvertido de los conectores (11) lo que desanimaría el uso continuo de tales anteojos o gafas. De otra parte los anteojos descritos no tienen acomodación en usuarios cuyas cabezas son muy anchas sobre el eje (22).

Otro objeto de la invención presente es el de proveer unos anteojos con un puente conector de broche o fijación con capacidad de ajustarse a lo largo de los ejes mayores en la cabeza del usuario de modo que se provea un antejo o gafas con un gran cubrimiento para la utilización del público.

Estos y otros objetivos se harán evidentes en el curso de la siguiente descripción y las reivindicaciones de la invención.

RESUMEN DE LA INVENCION:

Los anteojos de la invención incluyen un par de lentes, un par de conectores desenganchables conectados a los respectivos extremos interiores de los lentes, un par de brazos parietales conectados en forma pivotal a los extremos exteriores de los lentes y un collar o abrazadera rígida conectada entre los extremos posteriores de los brazos parietales. El collar o abrazadera tiene forma de U con brazos para que se conectan a un arco en la base, en tanto los miembros paralelos se conectan a los extremos posteriores de los brazos parietales y durante el uso, el arco en la base se extiende a lo largo de la parte posterior de la cabeza del usuario.

El collar conformado en U conlleva un segmento telescópico para alterar en forma selectiva la longitud del arco en la base y alterar el espacio entre el collar o abrazadera y sus brazos paralelos de modo que el ancho del collar se ajuste a la cabeza del usuario. Los extremos interiores de los lentes se liberan y se aseguran mediante conectores. Durante el uso, los lentes se separan entre sí y se pivotan hacia fuera, y el collar o abrazadera se ajusta al tamaño de la cabeza del usuario. Los lentes se pivotan uno hacia otro y se aseguran frente a los ojos. Los lentes se separan inmediatamente para facilitar su postura o separación de los anteojos, pero de inmediato reconectan mediante un medio seguro.

BREVE DESCRIPCION DE LAS FIGURAS

La figura 1 es una vista perspectiva del antejo objeto de la patente U. S 6 253 388.

La figura 2 es una vista en plano superior o planta de la cabeza del usuario.

La figura 3 es una vista en plano superior de los anteojos del invento.

La figura 4A y 4B son vistas en planta de las cabezas del usuario con los anteojos de la invención.

La figura 5 es una vista en planta de la invención destacando una porción de una parte de los anteojos mostrando las mejoras aportadas.

DESCRIPCION DETALLADA DE LA INVENCION

La invención en sus aspectos y alcances se entenderá mucho mejor con acompañamiento de las figuras mencionadas, en tanto la invención se describe por vía de ejemplo y por tal caso las figuras no deben entenderse como limitativas al presente invento. Los varios aspectos sobre la novedad se definirán en las reivindicaciones.

Los detalles de la invención se han descrito en el resumen anteriormente mencionado. De hecho se presentan aspectos y detalles adicionales que serán expresados aquí y en las reivindicaciones. Los entendidos en la técnica entenderán que la concepción sobre la cual se basa el invento puede ser fácilmente utilizada como base en el diseño de otras estructuras, métodos y sistemas para desarrollar los alcances de la invención. Es importante, además que las reivindicaciones sean vistas para diseños equivalentes en la medida que los mismos no se aparten del espíritu y alcance de la presente invención.

Respecto de la terminología utilizada en la presente, se hace como simple referencia, sin limitantes de aplicación. Por ejemplo, términos como “hacia arriba” “hacia abajo”, “izquierdo” y “derecho” se refieren a direcciones sobre las figuras a menos que se establezca otra directriz. Del mismo modo palabras como “hacia dentro” y “hacia fuera” se refieren a direcciones hacia y sobre el centro geométrico del dispositivo o área designada y sus partes. Referencias en el sentido singular incluyen también lo plural y viceversa, a menos que se establezca lo contrario.

Como se mencionó al comienzo de la presente, el solicitante se ha basado en la patente U.S. 6 253 388 para unos anteojos o gafas que incluyen unos lentes (10) sobre su montura (14). Unos conectores (11) se unen a los extremos internos de la montura (14). Los brazos parietales (12) sobre las sienes son preferiblemente telescópicos para utilizarse en fijación sobre diferentes anteojos.

Sobre éste último aspecto debe anotarse que los brazos (12) se adaptan a un usuario cuyo eje craneal (21) sean mayor que lo normal. Sin éste aspecto telescópico un intento de aplicar los anteojos con broche de fijación en el puente daría como resultado, inadvertidamente la pérdida de conectividad en el puente dando como resultado la separación de los lentes en el punto (32) como se ve en la figura 4A. De otra parte, sin tener en cuenta el aspecto telescópico mencionado, si la cabeza de un usuario es mayor que el eje (22) no podría evitarse la liberación o zafada de los conectores (32).

En la figura 3, los anteojos (30) se muestran en planta o vista superior. Los lentes (31) y (33) se desenganchan uno de otro en sus extremos internos a través del uso de conectores (32), preferiblemente un par de magnetos embebidas en los marcos de dichos lentes. Los brazos parietales (34) y (35) se extienden en forma pivotal desde los marcos de sus lentes, y se conectan a un collar (36) moldeado en U, dicho collar o abrazadera siendo rígido pero retiene su forma original cuando los conectores (32) se zafan o liberan y se resorta lo suficiente para poder flejarse.

Como se ve en las flechas (41) y (42) de la figura 3, los brazos parietales (34) y (35) son telescópicos respecto de los elementos paralelos (37) y (38) conformados en U sobre el collar (36) para extender o contraer la distancia entre los lentes (31) y (33) y la curva o arco (39) en la base del antejo (30) a lo largo del eje (21), tal como se aprecia en la figura 2.

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Aun , con el aspecto telescópico mencionado, es muy común para los lentes (31) y (33) su separación tal como se ve en la figura 4A particularmente si la cabeza del usuario se ensancha inusualmente sobre el eje (22) (figura 2) . Para éste tipo de eventualidades, la abrazadera o collar (36) se provee con un segmento telescópico (60) cuyos detalles se definen adelante.

En la utilización de unos anteojos (30) los extremos interiores de los lentes (31) y (33) van pivotaes con respecto a los brazos parietales (34) y (35) de modo que se extiendan hacia fuera y sustancialmente como extensiones de dichos brazos parietales conformando tramos (36) en U alrededor de la cabeza (50) del usuario. Para ello, los lentes (31) y (33) se pivotan con relación a los brazos (34) y (35) hasta que el conector (32) sujeten los lentes uno a otro tal como se describe en la patente '388. De atraparte si la cabeza del usuario es muy ancha (sobre el eje 22 según la figura 2), los lentes se separan sobre un espacio (51) haciendo impractico el uso del antejo. Cuando esto se presenta, los extremos (61) y (62) del collar (36) sobre la base posterior (39) se separan entre sí según la dirección de la flecha (43) de la figura 3.

Idealmente, se provee un puente (60) con extensiones (60a) y (60b) telescópicas con el collar (36), posición que se ayuda a mantener a través de unos salientes (64). Así pues, los extremos (61) y (62) arqueados como la base (39) del collar (36) se apartan y se acercan uno de otro, de tal como que los anteojos mostrados en la figura 4A se transforman en los anteojos de a figura 4B , lo que permite al antejo una fijación ideal sobre la cabeza del usuario y prevenir una inadvertida zafada o desprendimiento de los conectores (32)

Lo anterior parece suficiente para permitir la ejecución del invento en su mejor modo. Entre tanto es bueno advertir que el presente invento no puede limitarse a construcciones ni diseños exactos, dimensiones por lo que formas alternas de construcción, cambios y equivalencias pueden ocurrir en la

práctica sin apartarse del espíritu y alcance del invento. Estos cambios y alternativas se extienden a materiales, componentes, tamaños, formas y aspectos similares para tal fin.

REIVINDICACIONES

1. Anteojos que se caracterizan por comprender:

Un par de lentes

Un par de conectores desenganchables desde los extremos internos de los lentes, dichos conectores asegurable y desenganchables uno de otro,

Un par de brazos parietales conectados a los respectivos extremos exteriores de los lentes,

Un collar o abrazadera conectado a los extremos posteriores de los brazos parietales, dicho collar rígido pero reteniendo su forma cuando se liberan los conectores y resortados al liberarse, conformado en U con unos brazos paralelos que se conectan a los extremos posteriores de los brazos parietales, y cuando se utiliza dicha forma arqueada se extiende sobre la nuca del usuario, y además comprendiendo un segmento telescópico localizado sobre la base arqueada para alterar el espaciamiento entre los brazos paralelos para ajustar dicho collar sobre las varias anchuras que puede presentar la cabeza del usuario, y

Donde dichos conectores son liberados o zafados y colocados con facilidad, de modo que cuando se conectan los lentes se aseguran entre sí frente a los ojos.

2. Anteojos como en la reivindicación 1 caracterizado porque los conectores incluyen magnetos.

3. Anteojos como en la reivindicación 1 caracterizado porque los brazos parietales comprenden porciones telescópicas para fijarse a diferentes anteojos.

4. Anteojos como en la reivindicación 1, caracterizado porque dichos brazos parietales se conectan pivotalmente a los lentes, de modo que cuando los

conectores se liberan uno de otro, los extremos interiores de los lentes se pivotan hacia fuera con facilidad.

5. Anteojos como en la reivindicación 1 que incluye además una montura, para montar dichos lentes, donde los conectores se unen a los respectivos extremos internos de la montura y los brazos parietales se unen a los extremos exteriores de la montura.

6. Anteojos caracterizados por comprender:

Un par de lentes,

Un par de conectores desenganchables conectables a los extremos interiores de los lentes, y asegurados en su conexión y desenganchables uno de otro,

Un par de brazos parietales conectados a los extremos exteriores de los lentes, dichos extremos conformados de manera de gancho descendentemente para abrazar las orejas del usuario,

Un collar o abrazadera conformado en U que lleva unos brazos paralelos que se conectan a una base arqueada, dichos brazos conectados a los extremos posteriores de los brazos parietales, de modo que la utilización dicha base arqueada se extiende sobre la nuca del usuario, y comprende además segmentos telescópicos localizados en dicha base arqueada a fin de alterar selectivamente la longitud de dicha base arqueada y alterar el espacio entre dichos brazos paralelos para ajustar dicho collar conforme al ancho en la cabeza del usuario; y

Donde dichos conectores se liberan uno de otro, y dichos extremos internos de los lentes son de fácil colocación y remoción, y cuando los conectores se conectan entre sí, los lentes se aseguran uno al otro en posición estable frente a los ojos.

7. Anteojos conforme a la reivindicación 6 donde dichos conectores comprenden magnetos.

8. Anteojos conforme a la reivindicación 6, donde dichos brazos parietales comprenden partes telescópicas para fijarse a cualquier antejo.

9. Anteojos conforme a la reivindicación 6, donde dichos brazos parietales se conectan pivotalmente a los lentes, de modo que al liberar los conectores uno del otro, los extremos interiores de los lentes pivotan hacia fuera para facilitar la utilización del antejo.

10. Anteojos conforme a la reivindicación 6 que incluye además un par de monturas, dichos lentes sobre dichas monturas, dichos conectores unidos o conectados a los extremos interiores de dichas monturas y dichos brazos parietales se conectan a cada respectivo extremo exterior de las monturas.

RESUMEN

Los anteojos del invento incluyen un par de lentes, un par de conectores desenganchables que se conectan a los extremos interiores de los lentes, un par de brazos parietales conectados pivotalmente a los extremos exteriores de los lentes y un collar o abrazadera rígida que conecta los extremos posteriores de los brazos parietales. El collar lleva forma en U con un par de brazos paralelos conectados a una base arqueada, dichos brazos paralelos conectados a los extremos posteriores de los brazos parietales que en su utilización, la base arqueada se extiende a lo largo de la nuca del usuario. El collar tiene forma de U y comprende además unos segmentos telescópicos para alterar en forma selectiva la longitud de la base arqueada y alterar el espaciamiento entre los brazos paralelos del collar y ajustar el collar a las diferentes anchuras de la cabeza del usuario. Los extremos internos de los lentes se aseguran y liberan conjuntamente mediante conectores. Durante el uso, los lentes se separan entre sí y se pivotan hacia fuera, y el collar alrededor de la nuca se ajusta conforme al tamaño. Los lentes se pivotan acercando uno al otro y se aseguran frente a los ojos. Los lentes se separan rápidamente para facilitar su colocación y remoción pero así mismo se aseguran en forma fija.

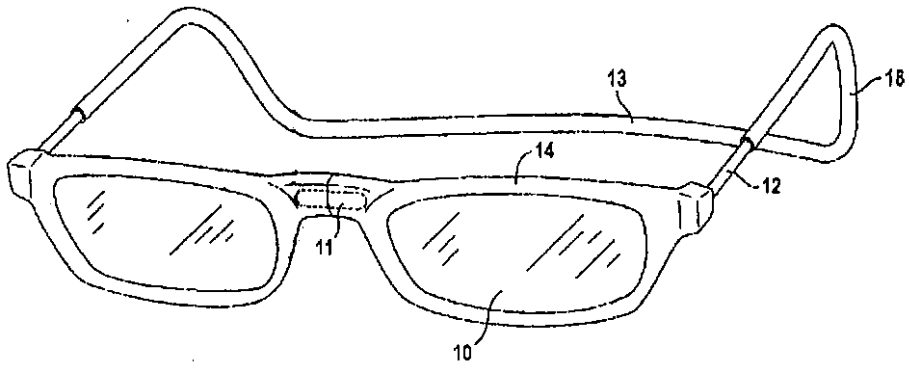


FIG. 1
(Prior Art)

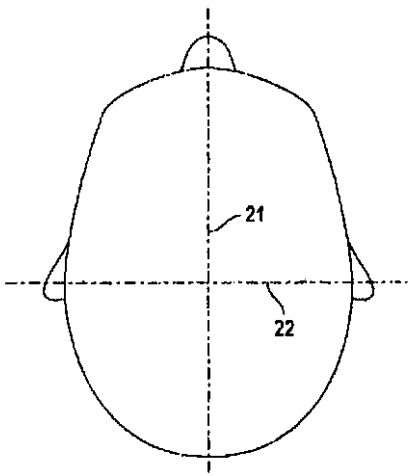


FIG. 2

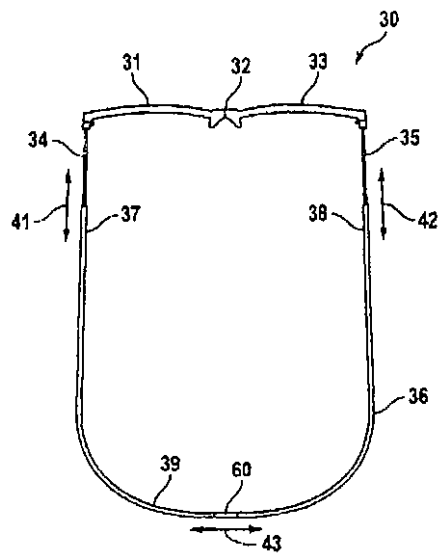


FIG. 3

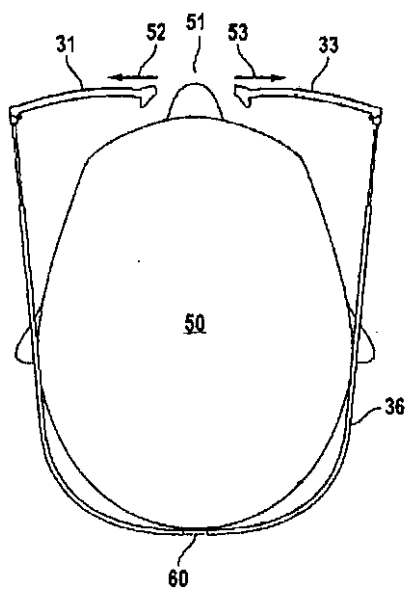


FIG. 4A

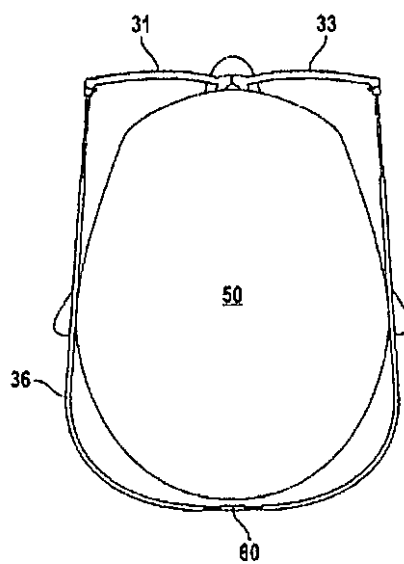


FIG. 4B

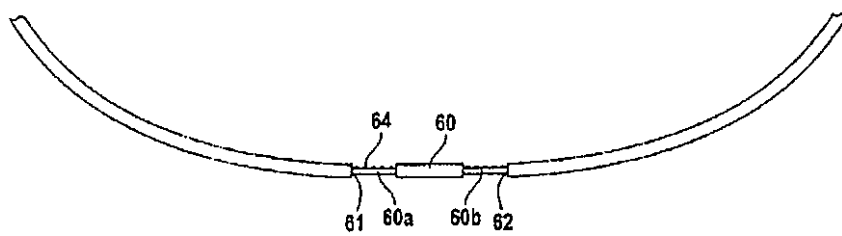


FIG. 5

PATENT COOPERATION TREATY

20

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INTERNATIONAL FILING DATE

(PCT Rule 20 2(c))

Confirmation No: 2278

Date of mailing
(day/month/year)

08 Jun 2010

Applicant's or agent's file reference
81111

IMPORTANT NOTIFICATION

International application No
PCT/US2010/036830

International filing date (day/month/year)
01 Jun 2010

Priority date (day/month/year)
02 Dec 2009

Applicant
LANDO, RON

Title of the invention
EXPANDABLE EYEWEAR WITH SNAP-TOGETHER BRIDGE

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- ☐ 37 CFR 5.15(a) ☒ 37 CFR 5.15(b)

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(12) **United States Patent**
Lando

(10) **Patent No.:** **US 7,931,366 B1**
(45) **Date of Patent:** **Apr. 26, 2011**

(54) **EXPANDABLE EYEWEAR WITH
SNAP-TOGETHER BRIDGE**

(76) **Inventor:** Ron Lando, Tiburon, CA (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** 12/629,297

(22) **Filed:** Dec. 2, 2009

(51) **Int. Cl.**
G02C 3/00 (2006.01)

(52) **U.S. Cl.** 351/156; 351/124; 2/445

(58) **Field of Classification Search** 351/111,
351/12, 124, 156, 157, 43, 158, 41; 2/445,
2/448, 454; 24/303

See application file for complete search history

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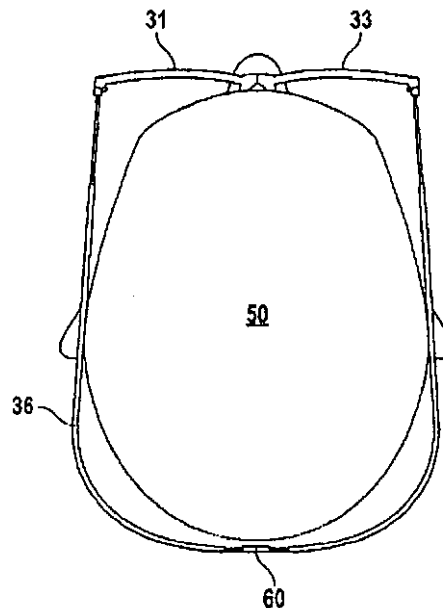
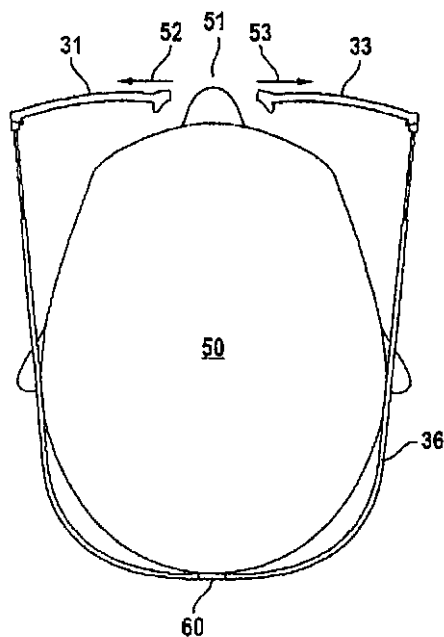
Primary Examiner — Hung X Dang

(74) *Attorney, Agent, or Firm* — Bay Area Technology Law Group PC

(57) **ABSTRACT**

The present eyewear includes a pair of lenses, a pair of releasable connectors connected to respective inner ends of the lenses, a pair of temples pivotally connected to respective outer ends of the lenses and a rigid strap connected between rear ends of the temples. The strap is generally U-shaped having substantially parallel legs connected to an arc-shaped base, the substantially parallel legs being connected to rear ends of the temples and when worn, the arc-shaped base extends along the back of a user's head. The strap at its U-shaped base is provided with a telescoping segment for selectively altering the length of the arc-shaped base for altering the spacing between the strap's substantially parallel legs to adjust the strap for varying widths of a user's head. The inner ends of the lenses are releasably secured together by connectors. In use, the lenses are separated from each other and pivoted outwardly, the strap wrapped around the back of a user's head and adjusted for size. The lenses are then pivoted towards each other and secured together in front of the user's eyes. The lenses are instantly separable for easily putting on or taking off the eyewear, but they are instantly connectable together for a secure and accurate fit.

10 Claims, 2 Drawing Sheets



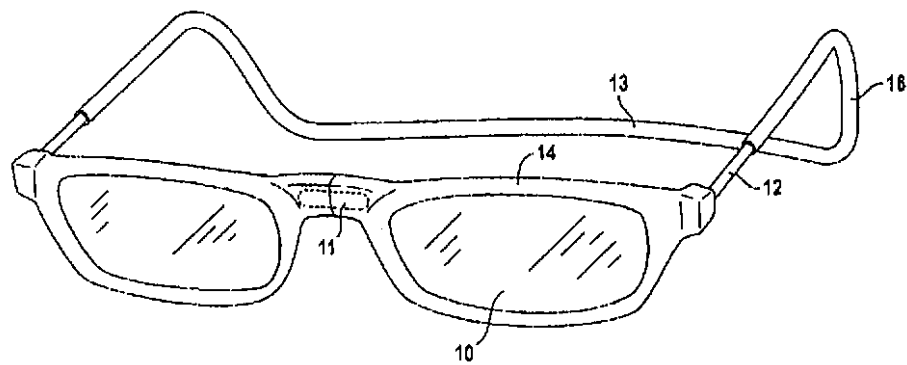


FIG. 1
(Prior Art)

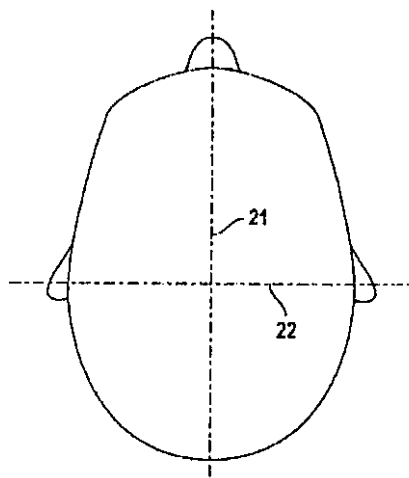


FIG. 2

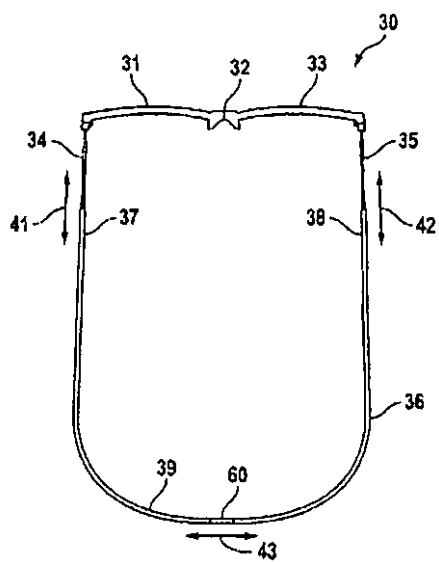


FIG. 3

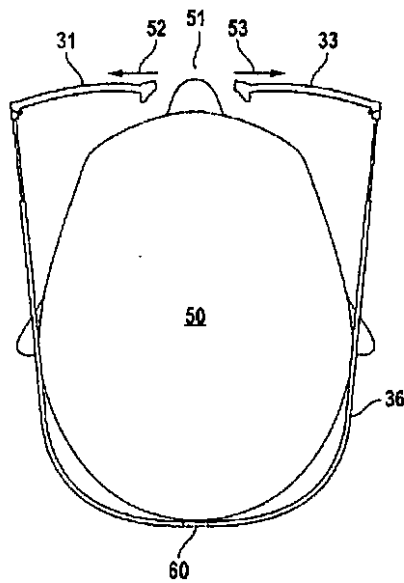


FIG. 4A

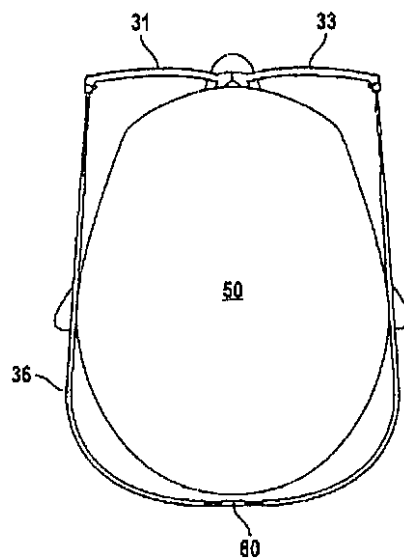


FIG. 4B

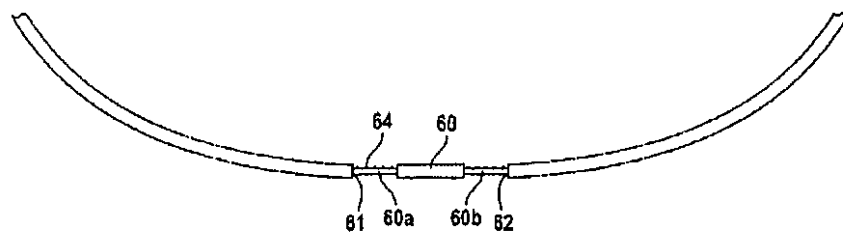


FIG. 5

1
EXPANDABLE EYEWEAR WITH
SNAP-TOGETHER BRIDGE

TECHNICAL FIELD

The present invention deals with improved eyewear having a snap-together bridge feature.

BACKGROUND OF THE INVENTION

Applicant is the owner of U.S. Pat. No. 6,253,388. The invention disclosed and claimed in the '388 patent involved eyewear comprised of a pair of lenses, releaseable connectors connected to respective inner ends of the lenses, a pair of temples pivotable to respective outer ends of the lenses and a rigid strap attached between rear ends of the temples. The strap was taught to be positioned below the lenses so as not to interfere with a hairdo or helmet. The inner ends of the lenses were taught to be releasably secured together by the connectors, preferably, magnets. To position the eyewear, the lenses are first separated from each other and pivoted outwardly. The strap is then wrapped around the back of a user's head and the lenses pivoted towards each other and secured together in front of the eyes. The lenses were taught to be instantly separable for easily putting on and taking off the eyewear, but they are instantly connectable for a secure and accurate fit.

FIG. 1 depicts the eyewear generally disclosed and claimed in applicant's '388 patent. Specifically, lenses 10 were shown to be preferably mounted in respective frames 14 which are pivoted to temples 12. Connectors 11 are attached to respective inner ends of frames 14. Temples 12 are preferably telescoping for fitting different wearers. As noted, temples 12 were taught to be pivoted to the respective outer ends of frames 14 and include hook portion 16 for hooking around a user's ears. Strap 13 was taught to be positioned below lenses 10 so as to avoid interfering with a hairdo or helmet and preferably springy enough to retain its shape when released, but also flexible enough to be bendable to some extent without breaking. Alternatively, strap 13 was taught to be at the same level as temples 12, but at a loss of some advantages. The disclosure of U.S. Pat. No. 6,253,388 is incorporated herein by reference.

FIG. 2 depicts as oval 50, the head of a user from a perspective above the user facing straight down thereupon. The major axes of user's head 50 are shown from front to back as 21 and side to side as 22. The '388 patent taught, as a preferred embodiment, the ability to alter the length of the strap/temple pieces in the event the user's head along axis 21 was particularly large to minimize the inadvertent separation of the lenses by disengagement of connectors 11. It was found that if a user had a particularly elongated head along axis 21, normal use of the eyewear could result in lenses 10 separating from one another by inadvertent detachment of connectors 11 which would discourage continued use of such eyewear. However, the former eyewear disclosed by applicant had no way to accommodate users whose heads were particularly wide thus having a dimension along axis 22 which is of considerable proportion.

It is thus an object of the present invention to provide eyewear with a snap connector bridge capable of adjustment along both major axes of a user's head to thus provide such eyewear to a greater segment of the using public.

These and further objects will be more readily apparent when considering the following disclosure and appended claims.

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SUMMARY OF THE INVENTION

The present eyewear includes a pair of lenses, a pair of releaseable connectors connected to respective inner ends of the lenses, a pair of temples pivotally connected to respective outer ends of the lenses and a rigid strap connected between rear ends of the temples. The strap is generally U-shaped having substantially parallel legs connected to an arc-shaped base, the substantially parallel legs being connected to rear ends of the temples and when worn, the arc-shaped base extends along the back of a user's head. The strap at its U-shaped base is provided with a telescoping segment for selectively altering the length of the arc-shaped base for altering the spacing between the strap's substantially parallel legs to adjust the strap for varying widths of a user's head. The inner ends of the lenses are releasably secured together by connectors. In use, the lenses are separated from each other and pivoted outwardly, the strap wrapped around the back of a user's head and adjusted for size. The lenses are then pivoted towards each other and secured together in front of the user's eyes. The lenses are instantly separable for easily putting on or taking off the eyewear, but they are instantly connectable together for a secure and accurate fit.

BRIEF DESCRIPTION OF THE FIGURES

FIG. 1 is a perspective view of eyewear made the subject of U.S. Pat. No. 6,253,388.

FIG. 2 is a top plan view of the head of a typical user of the present invention.

FIG. 3 is a top plan view of the eyewear of the present invention.

FIGS. 4A and 4B are top plan views of a user's head supporting the eyewear of the present invention.

FIG. 5 is a top plan view of the present invention depicting a portion of the inventive eyewear highlighting its improvement over the prior art.

DETAILED DESCRIPTION OF THE INVENTION

Novel features which are characteristic of the invention, as to organization and method of operation, together with the further objects and advantages thereof will be better understood from the following description considered in conjunction with the accompanying drawings, in which preferred embodiments in the invention are illustrated by way of example. It is to be expressly understood, however, that the drawings are for illustration description only and are not intended as definitions of the limits of the invention. The various features of novelty which characterize the invention are recited with particularity in the claims.

There has been broadly outlined the more important features of the invention in the summary above in order that the detailed description which follows may be better understood, and in order that the present contribution to the art may be appreciated. There are, of course, additional features of the invention that will be described hereinafter and which will form additional subject matter of the claims appended hereto. Those skilled in the art will appreciate that the conception upon which this disclosure is based readily may be utilized as a basis for the designing of other structures, methods and systems for carrying out the several purposes of the present invention. It is important, therefore, that the claims be regarded as including such equivalent constructions insofar as they do not depart from the spirit and scope of the present invention.

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Certain terminology and derivations thereof may be used in the following description for convenience and reference only, and will not be limiting. For example, words such as "upward", "downward", "left" and "right" refer to directions in the drawings to which reference is made unless otherwise stated. Similarly, words such as "inward" and "outward" refer to directions toward and away from, respectively, the geometric center of the device or area and designated parts thereof. Reference in the singular sense include the plural and vice-versa, unless otherwise stated.

As noted previously, applicant has taught in its U.S. Pat. No. 6,253,388, eyewear which includes lenses 10 mounted in respective frames 14. Connectors 11 are preferably attached to inner ends of frames 14. Temples 12 are preferably telescopic for fitting different wearers. As to this later feature, it is noted that telescoping temples 12 assist a wearer whose head, along axis 21 is larger than normal. Without this telescoping feature, an attempt to wear applicant's eyewear with snap-together bridge could, and oftentimes does, inadvertently lose connectivity at the bridge resulting in the lenses separating at 32 as shown schematically in FIG. 4A. However, despite the telescoping feature described above, if a person's head is somewhat larger than average along axis 22, inadvertent release of connectors 32 cannot be avoided.

In turning to FIG. 3, eyewear 30 is depicted in a downwardly facing elevational view. Shown are lenses 31 and 33 releasably from one another at their inner ends through the use of connectors 32, preferably, a pair of magnets embedded within frames surrounding each of said lenses 31 and 33. Temple pieces 34 and 35 pivotally extend from the lenses or their frames 31 and 33, respectively and are connected to generally U-shaped strap 36, the strap being rigid enough to generally retain its shape when connectors 32 are released and is springy enough to be bendable when flexed and rebound when released.

As noted by arrows 41 and 42 in FIG. 3, temple pieces 34 and 35 can telescope with regard to parallel legs 37 and 38 of U-shaped strap 36 thus extending or contracting the distance between lenses 31 and 33 and the arc-shaped base 39 of eyewear 30 along axis 21 (FIG. 2).

Even with this telescoping feature, it is very common for lenses 31 and 33 to separate as depicted in FIG. 4A particularly if head 50 is unusually wide along axis 22 (FIG. 2). To account for this contingency, strap 36 is provided with telescoping segment 60, the details of which will be described hereinafter.

In wearing eyewear 30, the inner ends of lenses 31 and 33 are pivoted with respect to temples 34 and 35 so that they extend outwardly and substantially as extensions to temples 34 and 35 as U-shaped strap 36 is placed around head 50 of a user. Thereupon, lenses 31 and 33 are pivoted with respect to temples 34 and 35 until connectors 32 releasably attach the lenses to one another as more fully described in the '388 patent. However, if head 50 of the user is particularly wide (along axis 22 of FIG. 2), lenses 31 and 33 can separate at opening 51 making the present eyewear impractical. When this is experienced, ends 61 and 62 of strap 36 at arc-shaped base 39 can be separated from one another in the direction of arrows 43 (FIG. 3). Ideally, bridge 60 having extension pieces 60a and 60b telescope within strap 36, its position being held through friction or through the use of protrusions 64. Thus, as ends 61 and 62 of substantially arc-shaped base 39 of strap 36 pull apart and away from one another, eyewear 30 shown in FIG. 4A is transformed into eyewear 30 of FIG. 4B enabling the eyewear to ideally fit about head 50 of the user thus preventing the inadvertent disengagement of connectors 32 from occurring.

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The above disclosure is sufficient to enable one of ordinary skill in the art to practice the invention, and provides the best of mode of practicing the invention presently contemplated by the inventor. While there is provided herein a full and complete disclosure of the preferred embodiments of the invention, it is not desired to limit the invention to the exact construction, dimensions, relationships or operations as described. Various modifications, alternative constructions, changes and equivalents will readily occur to those skilled in the art and may be employed as suitable, without departing from the true spirit and scope of the invention. Such changes might involve alternative materials, components, structural arrangements, sizes, shapes, forms, functions, operational features or the like.

Therefore, the above description and illustration should not be construed as limiting the scope of the invention, which is defined by the appended claims.

What is claimed is:

1. Eyewear, comprising:

a pair of lenses;

a pair of releasable connectors connected to respective inner ends of said lenses, said connectors being securely connectable together and releasable from each other;

a pair of temples connected to respective outer ends of said lenses; and

a strap connected between rear ends of said temples, said strap being rigid enough to generally retain its shape when said connectors are released, and springy enough to be bendable when flexed and rebounding when released, said strap being generally U-shaped having substantially parallel legs connected to an arc-shaped base, said substantially parallel legs being connected to rear ends of said temples and when worn, said arc-shaped base extending along the back of a user's head, and further comprising a telescoping segment located within said arc-shaped base for selectively altering the length of said arc-shaped base for altering the spacing between said substantially parallel legs to adjust said strap for varying widths of a user's head; and

wherein said connectors are released so that said eyewear is easy to put on and remove, and when said connectors are connected together, said lenses are secured in position relative to each other for secure and stable positioning in front of a pair of eyes.

2. The eyewear of claim 1 wherein said connectors are comprised of magnets.

3. The eyewear of claim 1 wherein said temples are comprised of telescopic temples for fitting different wearers.

4. The eyewear of claim 1, wherein said temples are pivotally connected to said lenses, so that when said connectors are released from each other, said inner ends of said lenses are pivotable outwardly from making wearing easier.

5. The eyewear of claim 1 further including a pair of frames, said lenses being respectively mounted in said frames, said connectors being attached to respective inner ends of said frames, said temples being attached to respective outer ends of said frames.

6. Eyewear, comprising:

a pair of lenses;

a pair of releasable connectors connected to respective inner ends of said lenses, said connectors being securely connectable together and releasable from each other;

a pair of temples connected to respective outer ends of said lenses, said ends of said temples being hooked downward for wrapping around a pair of ears;

a strap being generally U-shaped having substantially parallel legs connected to an arc-shaped base, said substan-

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tially parallel legs being connected to rear ends of said temples and when worn, said arc-shaped base extending along the back of a user's head, and further comprising a telescoping segment located within said arc-shaped base for selectively altering the length of said arc-shaped base for altering the spacing between said substantially parallel legs to adjust said strap for bearing widths of user's head; and wherein when said connectors are released from each other, said inner ends of said lenses are separable from each other so that said eyewear is easy to put on and remove, and when said connectors are connected together, said lenses are secured in position relative to each other for secure and stable positioning in front of a pair of eyes.

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- 7. The eyewear of claim 6, wherein said connectors are comprised of magnets.
- 8. The eyewear of claim 6 wherein said temples are comprised of telescopic temples for fitting different wearers
- 9. The eyewear of claim 6, wherein said temples are pivotally connected to said lenses, so that when said connectors are released from each other, said inner ends of said lenses are pivotable outwardly for making wearing easier.
- 10. The eyewear of claim 6 further including a pair of frames, said lenses being respectively mounted in said frames, said connectors being attached to respective inner ends of said frames, said temples being attached to respective outer ends of said frames.

* * * * *

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I	Title of invention	EXPANDABLE EYEWEAR WITH SNAP-TOGETHER BRIDGE
II	Applicant	
II-1	This person is	Applicant and inventor
II-2	Applicant for	All designated States
II-4	Name (LAST, First)	LANDO, Ron
II-5	Address	408 Tamal Plaza Corte Madera, California 94925 United States of America
II-6	State of nationality	US
II-7	State of residence	US

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IV-1-4	Facsimile No.	4152261883
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VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	02 December 2009 (02.12.2009)
VI-1-2	Number	12/629,297
VI-1-3	Country	US
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1

28

PCT REQUEST

Paper Copy (NOT for submission)

VI-3	Incorporation by reference : where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6.		
VII-1	International Searching Authority Chosen	United States Patent and Trademark Office (USPTO) (ISA/US)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	Number of sheets	Electronic file(s) attached
IX-1	Request (including declaration sheets)	4	✓
IX-2	Description	7	-
IX-3	Claims	3	-
IX-4	Abstract	1	✓
IX-5	Drawings	2	-
IX-7	TOTAL	17	
	Accompanying Items	Paper document(s) attached	Electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-20	Figure of the drawings which should accompany the abstract	1	
IX-21	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	Nathan P. Koenig / Agent Reg No. 38210	
X-1-1	Name (LAST, First)	KOENIG, Nathan P.	
X-1-2	Name of signatory		
X-1-3	Capacity	Agent	

PCT REQUEST

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/US
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by the International Bureau	
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EXPANDABLE EYEWEAR WITH SNAP-TOGETHER BRIDGE**TECHNICAL FIELD**

5 The present invention deals with improved eyewear having a snap-together bridge feature

BACKGROUND OF THE INVENTION

Applicant is the owner of U S Patent No. 6,253,388. The invention disclosed and
10 claimed in the '388 patent involved eyewear comprised of a pair of lenses, releaseable
connectors connected to respective inner ends of the lenses, a pair of temples pivotable to
respective outer ends of the lenses and a rigid strap attached between rear ends of the
temples. The strap was taught to be positioned below the lenses so as not to interference
with a hairdo or helmet. The inner ends of the lenses were taught to be releaseably
15 secured together by the connectors, preferably, magnets. To position the eyewear, the
lenses are first separated from each other and pivoted outwardly. The strap is then
wrapped around the back of a user's head and the lenses pivoted towards each other and
secured together in front of the eyes. The lenses were taught to be instantly separable for
easily putting on and taking off the eyewear, but they are instantly connectable for a
20 secure and accurate fit.

Fig. 1 depicts the eyewear generally disclosed and claimed in applicant's '388
patent. Specifically, lenses 10 were shown to be preferably mounted in respective frames
14 which are pivoted to temples 12. Connectors 11 are attached to respective inner ends
of frames 14. Temples 12 are preferably telescoping for fitting different wearers. As
25 noted, temples 12 were taught to be pivoted to the respective outer ends of frames 14 and
include hook portion 16 for hooking around a user's ears. Strap 13 was taught to be
positioned below lenses 10 so as to avoid interfering with a hairdo or helmet and
preferably springy enough to retain its shape when released, but also flexible enough to be
bendable to some extent without breaking. Alternatively, strap 13 was taught to be at the
30 same level as temples 12, but at a loss of some advantages. The disclosure of U S Patent
No. 6,253,388 is incorporated herein by reference

Fig 2 depicts as oval 50, the head of a user from a perspective above the user facing straight down thereupon. The major axes of user's head 50 are shown from front to back as 21 and side to side as 22. The '388 patent taught, as a preferred embodiment, the ability to alter the length of the strap/temple pieces in the event the user's head along axis 21 was particularly large to minimize the inadvertent separation of the lenses by disengagement of connectors 11. It was found that if a user had a particularly elongated head along axis 21, normal use of the eyewear could result in lenses 10 separating from one another by inadvertent detachment of connectors 11 which would discourage continued use of such eyewear. However, the former eyewear disclosed by applicant had no way to accommodate users whose heads were particularly wide thus having a dimension along axis 22 which is of considerable proportion.

It is thus an object of the present invention to provide eyewear with a snap connector bridge capable of adjustment along both major axes of a user's head to thus provide such eyewear to a greater segment of the using public.

These and further objects will be more readily apparent when considering the following disclosure and appended claims.

SUMMARY OF THE INVENTION

The present eyewear includes a pair of lenses, a pair of releasable connectors connected to respective inner ends of the lenses, a pair of temples pivotally connected to
5 respective outer ends of the lenses and a rigid strap connected between rear ends of the temples. The strap is generally U-shaped having substantially parallel legs connected to an arc-shaped base, the substantially parallel legs being connected to rear ends of the temples and when worn, the arc-shaped base extends along the back of a user's head. The strap at its U-shaped base is provided with a telescoping segment for selectively
10 altering the length of the arc-shaped base for altering the spacing between the strap's substantially parallel legs to adjust the strap for varying widths of a user's head. The inner ends of the lenses are releasably secured together by connectors. In use, the lenses are separated from each other and pivoted outwardly, the strap wrapped around the back of a user's head and adjusted for size. The lenses are then pivoted towards each other and
15 secured together in front of the user's eyes. The lenses are instantly separable for easily putting on or taking off the eyewear, but they are instantly connectable together for a secure and accurate fit.

20

BRIEF DESCRIPTION OF THE FIGURES

Fig. 1 is a perspective view of eyewear made the subject of U.S. Patent No 6,253,388.

5 Fig. 2 is a top plan view of the head of a typical user of the present invention

Fig. 3 is a top plan view of the eyewear of the present invention

Figs. 4A and 4B are top plan views of a user's head supporting the eyewear of the present invention.

10 Fig. 5 is a top plan view of the present invention depicting a portion of the inventive eyewear highlighting its improvement over the prior art.

DETAILED DESCRIPTION OF THE INVENTION

Novel features which are characteristic of the invention, as to organization and method of operation, together with the further objects and advantages thereof will be better understood from the following description considered in conjunction with the accompanying drawings, in which preferred embodiments in the invention are illustrated by way of example. It is to be expressly understood, however, that the drawings are for illustration description only and are not intended as definitions of the limits of the invention. The various features of novelty which characterize the invention are recited with particularity in the claims.

There has been broadly outlined the more important features of the invention in the summary above in order that the detailed description which follows may be better understood, and in order that the present contribution to the art may be appreciated. There are, of course, additional features of the invention that will be described hereinafter and which will form additional subject matter of the claims appended hereto. Those skilled in the art will appreciate that the conception upon which this disclosure is based readily may be utilized as a basis for the designing of other structures, methods and systems for carrying out the several purposes of the present invention. It is important, therefore, that the claims be regarded as including such equivalent constructions insofar as they do not depart from the spirit and scope of the present invention.

Certain terminology and derivations thereof may be used in the following description for convenience and reference only, and will not be limiting. For example, words such as "upward", "downward", "left" and "right" refer to directions in the drawings to which reference is made unless otherwise stated. Similarly, words such as "inward" and "outward" refer to directions toward and away from, respectively, the geometric center of the device or area and designated parts thereof. Reference in the singular sense include the plural and vice-versa, unless otherwise stated.

As noted previously, applicant has taught in its U.S. Patent No. 6,253,388, eyewear which includes lenses 10 mounted in respective frames 14. Connectors 11 are preferably attached to inner ends of frames 14. Temples 12 are preferably telescopic for fitting different wearers. As to this latter feature, it is noted that telescoping temples 12

assist a wearer whose head, along axis 21 is larger than normal. Without this telescoping feature, an attempt to wear applicant's eyewear with snap-together bridge could, and oftentimes does, inadvertently lose connectivity at the bridge resulting in the lenses separating at 32 as shown schematically in Fig. 4A. However, despite the telescoping
5 feature described above, if a person's head is somewhat larger than average along axis 22, inadvertent release of connectors 32 cannot be avoided.

In turning to Fig. 3, eyewear 30 is depicted in a downwardly facing elevational view. Shown are lenses 31 and 33 releasably from one another at their inner ends through the use of connectors 32, preferably, a pair of magnets embedded within frames
10 surrounding each of said lenses 31 and 33. Temple pieces 34 and 35 pivotally extend from the lenses or their frames 31 and 33, respectively and are connected to generally U-shaped strap 36, the strap being rigid enough to generally retain its shape when connectors 32 are released and is springy enough to be bendable when flexed and rebound when released.

15 As noted by arrows 41 and 42 in Fig. 3, temple pieces 34 and 35 can telescope with regard to parallel legs 37 and 38 of U-shaped strap 36 thus extending or contracting the distance between lenses 31 and 33 and the arc-shaped base 39 of eyewear 30 along axis 21 (Fig. 2).

Even with this telescoping feature, it is very common for lenses 31 and 33 to
20 separate as depicted in Fig. 4A particularly if head 50 is unusually wide along axis 22 (Fig. 2). To account for this contingency, strap 36 is provided with telescoping segment 60, the details of which will be described hereinafter.

In wearing eyewear 30, the inner ends of lenses 31 and 33 are pivoted with respect to temples 34 and 35 so that they extend outwardly and substantially as extensions to
25 temples 34 and 35 as U-shaped strap 36 is placed around head 50 of a user. Thereupon, lenses 31 and 33 are pivoted with respect to temples 34 and 35 until connectors 32 releasably attach the lenses to one another as more fully described in the '388 patent. However, if head 50 of the user is particularly wide (along axis 22 of Fig. 2), lenses 31 and 33 can separate at opening 51 making the present eyewear impractical. When this is
30 experienced, ends 61 and 62 of strap 36 at arc-shaped base 39 can be separated from one

another in the direction of arrows 43 (Fig. 3) Ideally, bridge 60 having extension pieces 60a and 60b telescope within strap 36, its position being held through friction or through the use of protrusions 64. Thus, as ends 61 and 62 of substantially arc-shaped base 39 of strap 36 pull apart and away from one another, eyewear 30 shown in Fig. 4A is transformed into eyewear 30 of Fig. 4B enabling the eyewear to ideally fit about head 50 of the user thus preventing the inadvertent disengagement of connectors 32 from occurring.

The above disclosure is sufficient to enable one of ordinary skill in the art to practice the invention, and provides the best of mode of practicing the invention presently contemplated by the inventor. While there is provided herein a full and complete disclosure of the preferred embodiments of the invention, it is not desired to limit the invention to the exact construction, dimensions, relationships or operations as described. Various modifications, alternative constructions, changes and equivalents will readily occur to those skilled in the art and may be employed as suitable, without departing from the true spirit and scope of the invention. Such changes might involve alternative materials, components, structural arrangements, sizes, shapes, forms, functions, operational features or the like.

Therefore, the above description and illustration should not be construed as limiting the scope of the invention, which is defined by the appended claims.

20

CLAIMS

What is claimed is:

- 1 Eyewear, comprising:
 - 5 a pair of lenses;
 - a pair of releasable connectors connected to respective inner ends of said lenses, said connectors being securely connectable together and releasable from each other;
 - a pair of temples connected to respective outer ends of said lenses; and
 - 10 a strap connected between rear ends of said temples, said strap being rigid enough to generally retain its shape when said connectors are released, and springy enough to be bendable when flexed and rebounding when released, said strap being generally U-shaped having substantially parallel legs connected to an arc-shaped base, said substantially parallel legs being
 - 15 connected to rear ends of said temples and when worn, said arc-shaped base extending along the back of a user's head, and further comprising a telescoping segment located within said arc-shaped base for selectively altering the length of said arc-shaped base for altering the spacing between said substantially parallel legs to adjust said strap for varying widths of a
 - 20 user's head; and
 - wherein said connectors are released so that said eyewear is easy to put on and remove, and when said connectors are connected together, said lenses are secured in position relative to each other for secure and stable positioning in front of a pair of eyes.
- 25 2 The eyewear of claim 1 wherein said connectors are comprised of magnets
3. The eyewear of claim 1 wherein said temples are comprised of telescopic temples for fitting different wearers
4. The eyewear of claim 1, wherein said temples are pivotally connected to said lenses, so that when said connectors are released from each other, said inner ends
- 30 of said lenses are pivotable outwardly from making wearing easier

- 5 The eyewear of claim 1 further including a pair of frames, said lenses being
respectively mounted in said frames, said connectors being attached to respective
inner ends of said frames, said temples being attached to respective outer ends of
said frames.
- 5 6. Eyewear, comprising:
a pair of lenses;
a pair of releaseable connectors connected to respective inner ends of said
lenses, said connectors being securely connectable together and releaseable
from each other;
10 a pair of temples connected to respective outer ends of said lenses, said ends
of said temples being hooked downward for wrapping around a pair of ears;
a strap being generally U-shaped having substantially parallel legs connected
to an arc-shaped base, said substantially parallel legs being connected to rear
ends of said temples and when worn, said arc-shaped base extending along the
15 back of a user's head, and further comprising a telescoping segment located
within said arc-shaped base for selectively altering the length of said arc-
shaped base for altering the spacing between said substantially parallel legs to
adjust said strap for bearing widths of user's head; and
wherein when said connectors are released from each other, said inner ends of
20 said lenses are separable from each other so that said eyewear is easy to put on
and remove, and when said connectors are connected together, said lenses are
secured in position relative to each other for secure and stable positioning in
front of a pair of eyes
- 7 The eyewear of claim 6, wherein said connectors are comprised of magnets.
- 25 8. The eyewear of claim 6 wherein said temples are comprised of telescopic temples
for fitting different wearers
9. The eyewear of claim 6, wherein said temples are pivotally connected to said
lenses, so that when said connectors are released from each other, said inner ends
of said lenses are pivotable outwardly for making wearing easier

10. The eyewear of claim 6 further including a pair of frames, said lenses being respectively mounted in said frames, said connectors being attached to respective inner ends of said frames, said temples being attached to respective outer ends of said frames

ABSTRACT

The present eyewear includes a pair of lenses, a pair of releasable connectors connected to respective inner ends of the lenses, a pair of temples pivotally connected to respective outer ends of the lenses and a rigid strap connected between rear ends of the temples. The strap is generally U-shaped having substantially parallel legs connected to an arc-shaped base, the substantially parallel legs being connected to rear ends of the temples and when worn, the arc-shaped base extends along the back of a user's head. The strap at its U-shaped base is provided with a telescoping segment for selectively altering the length of the arc-shaped base for altering the spacing between the strap's substantially parallel legs to adjust the strap for varying widths of a user's head. The inner ends of the lenses are releasably secured together by connectors. In use, the lenses are separated from each other and pivoted outwardly, the strap wrapped around the back of a user's head and adjusted for size. The lenses are then pivoted towards each other and secured together in front of the user's eyes. The lenses are instantly separable for easily putting on or taking off the eyewear, but they are instantly connectable together for a secure and accurate fit.

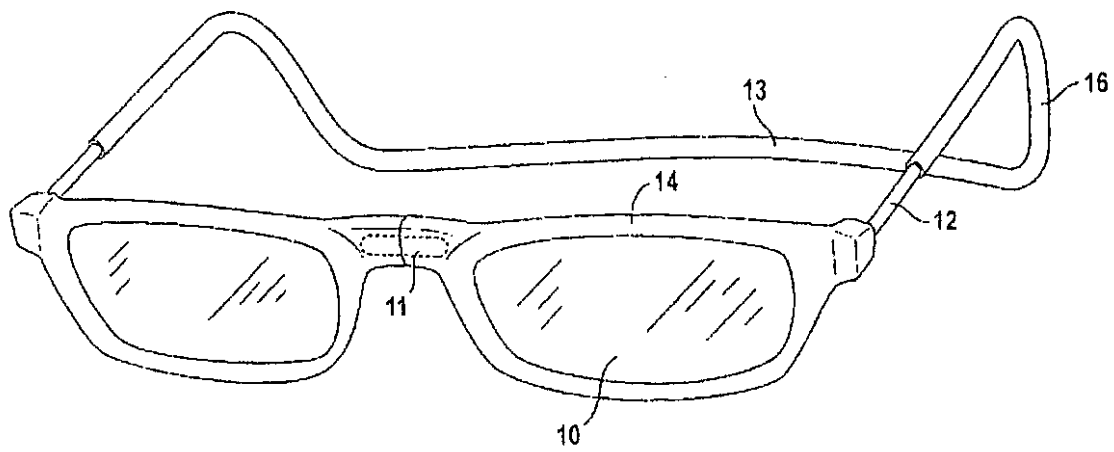


FIG. 1
(Prior Art)

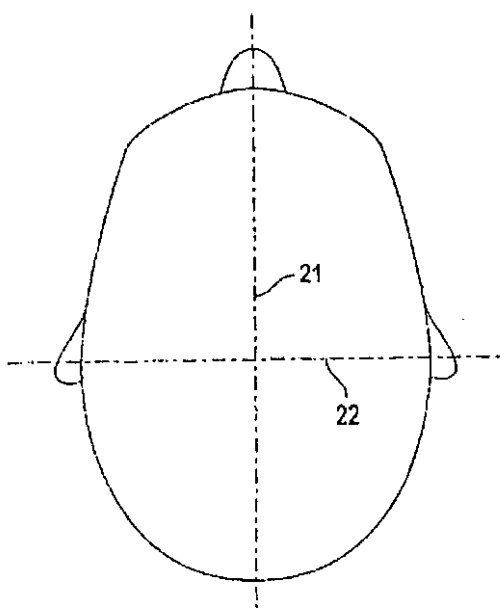


FIG. 2

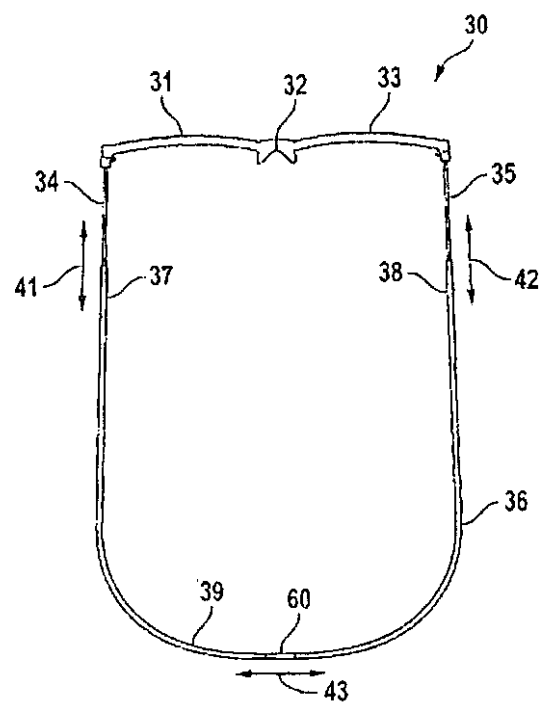
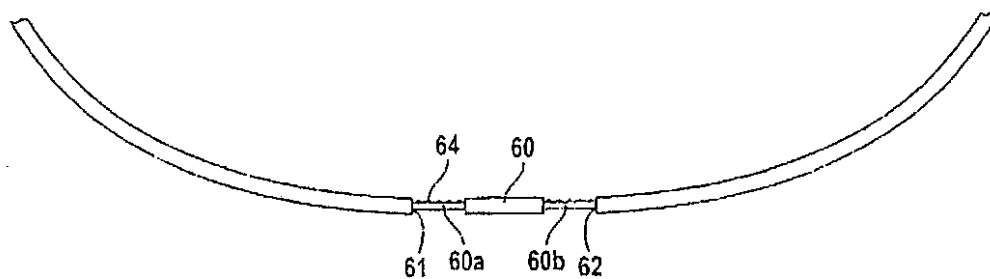
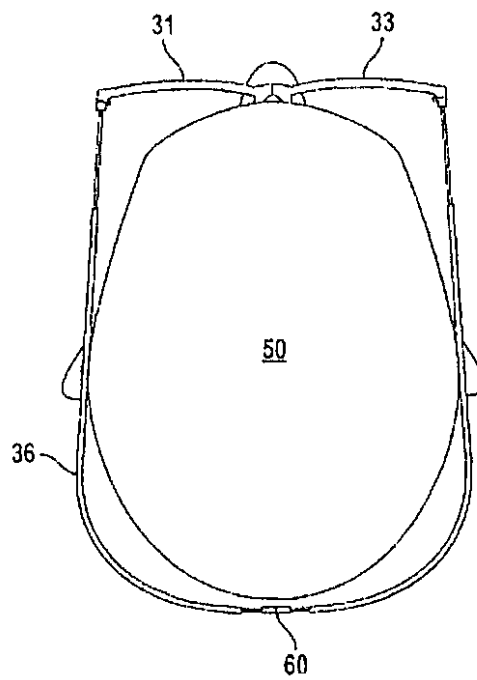
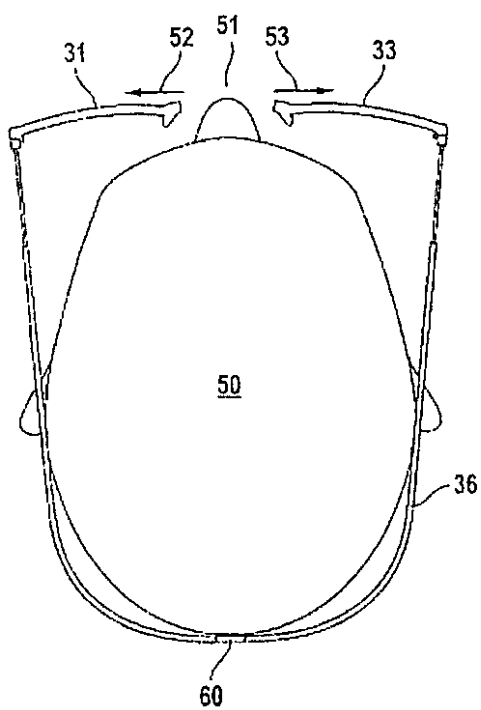
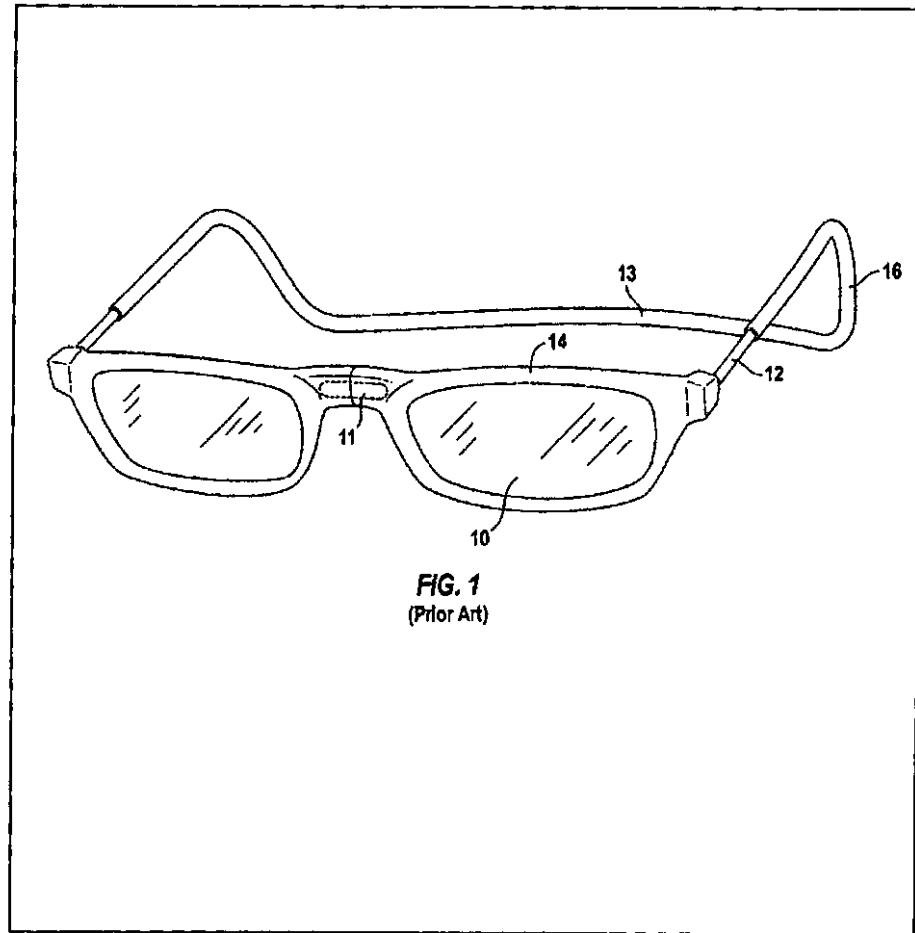
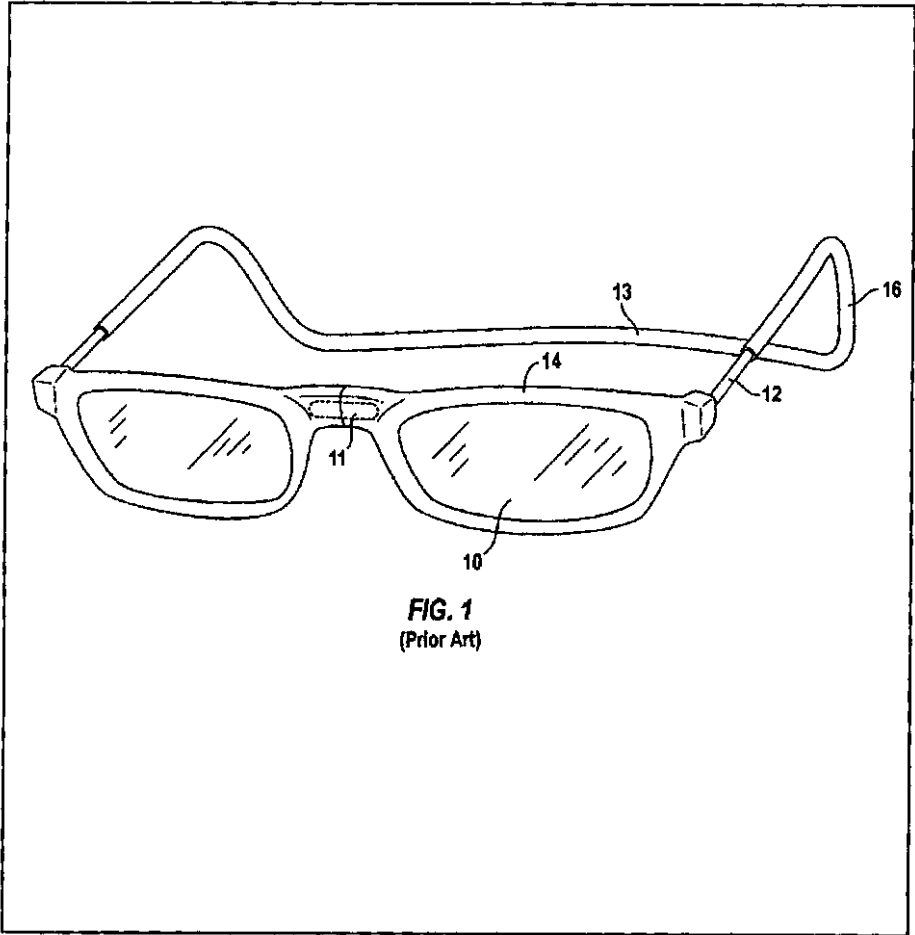


FIG. 3



ANTEOJOS EXPANDIBLES CON CIERRE EN EL PUENTE



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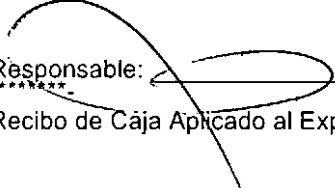
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 Industria y Comercio SUPERINTENDENCIA	RECIBO DE CAJA	No. 11 - 0079263
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RECIBIDO DE : LABORATORIOS FARMACOL S.A.S.					NI 860.078.781	
*** Soporte del Pago ***						
TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	VR PAGO	
CONSIGNACION	BANCO DE BOGOTA	062754387	445068175	12/08/2011	9.999.000.00	

*** Conceptos Pagados ***				
CANT.	RENTISTICO	CONCEPTO	Vr.UNDITARIO	Vr.CONCEPTO
1	50005-01-01 SOLICITUDES	1641 S.DISTINTIVO INSCRIPCION AFECTACION (CB.NOMBRE, DOMICIL	289.000.00	289.000.00
				\$289.000.00
			=====	

SON: **DOSCIENTOS OCHENTA Y NUEVE MIL PESOS MONEDA CORRIENTE***

Responsable: 

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No. 11-166564- -00000-0000

Fecha: 2011-12-02 17:39:04 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 48

7

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800.176.089-2

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Industria y Comercio SUPERINTENDENCIA	RECIBO DE CAJA	No. 11 - 0094989 Bogotá D.C., Septiembre 28 de 2011 - 08:03:43
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NI 120.111.000

*** Soporte del Pago ***

TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	VR. PAGO
CONSIGNACION	BANCO DE BOGOTA	062754387	324957695	23/09/2011	209.000.00

*** Conceptos Pagados ***

CANT.	RENTISTJCO	CONCEPTO	VR. UNDITARIO	VR. CONCEPTO
1	50005-01-09 OTROS SERVICIOS DE PROPIEDAD INDUSTRIAL	99 OTROS SERVICIOS ADMINISTRATIVOS	209.000.00	209.000.00
				\$209.000.00

SON: **DOSCIENTOS NUEVE MIL PESOS MONEDA CORRIENTE**

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Septiembre 28 de 2011 - 08:03:43

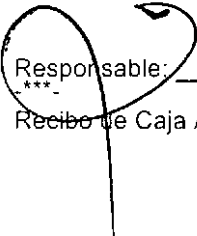
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		Bogotá D.C., Julio 29 de 2011 - 16:21:35

RECIBIDO DE : GABRIEL DE COLOMBIA S.A.	NI 860.515.812
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*** Soporte del Pago ***					
TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	VR. PAGO
CONSIGNACION	BANCO DE BOGOTA	062754387	181174151	27/07/2011	239.000.00

*** Conceptos Pagados ***			
CANT	RENTISTICO	CONCEPTO	Vr. UNIDITARIO Vr. CONCEPTO
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			\$59.000.00

SON: **CINCUENTA Y NUEVE MIL PESOS MONEDA CORRIENTE**

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

No. 11-166564- -00000-0000
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No. 11 - 107820

Bogotá D.C., Noviembre 03 de 2011 - 11:20:47

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NI 890.922.038

*** Soporte del Pago ***

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CONSIGNACION	BANCO DE BOGOTA	062754387	421794984	01/11/2011	833.000.00

*** Conceptos Pagados ***

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SON: **CATORCE MIL PESOS MONEDA CORRIENTE**

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 11-166564- -00000-0000

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Nov. 2 2011

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Noviembre 3 de 2011 - 11:20:47



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Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 411 PRESENTACION Folios: 48

Industria y Comercio
SUPERINTENDENCIA

PATENTE DE INVENCION ☐

MODELO DE UTILIDAD ☐

Art 33 Decisión 486/00

☐	Indicación que se solicita una patente.
☐	Datos de identificación del solicitante o de la persona que presenta la solicitud
☐	Descripción de la invención
☐	Dibujos de ser estos pertinentes
☐	Comprobante de pago de las tasas establecidas (De ser el caso formato de descuento)
Completa ☐ Incompleta ☐	

PATENTE DE INVENCION PCT ☐

MODELO DE UTILIDAD PCT ☐

Art.33 Decisión 486/00, Circular Única

☐	Indicación que se solicita una PCT
☐	Copia de la solicitud en español, tal como fue presentada inicialmente (capítulo descriptivo, reivindicatorio, resumen)
☐	Dibujos de ser estos pertinentes
☐	Comprobante de pago de las tasas establecidas (de ser el caso formato de descuento)
Completa ☐ Incompleta ☐	

DISEÑO INDUSTRIAL ☐

(Art. 119 Decisión 486/00)

☐	Indicación que se solicita Diseño industrial
☐	Datos de identificación del solicitante o de la persona que presenta la solicitud
☐	Representación gráfica y fotográfica del Diseño industrial o muestra del material que incorpora el diseño
☐	Comprobante de pago de las tasas establecidas
Completa ☐ Incompleta ☐	

ESQUEMA DE TRAZADO ☐

(Art. 92 Decisión 486/00)

☐	Indicación que se solicita un esquema de trazado
☐	Datos de identificación del solicitante o de la persona que presenta la solicitud
☐	Representación gráfica de un esquema de trazado
☐	Comprobante de pago de las tasas establecidas
Completa ☐ Incompleta ☐	