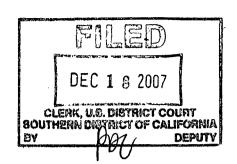
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SOUTHERN DISTRICT OF CALIFORNIA

UNITED STATES DISTRICT COURT

OAKLEY, INC., a Washington corporation,

Plaintiff,

VS.

5.11, Inc., a California corporation

Defendant.

'07 CV 2369 BTM CAB

COMPLAINT FOR PATENT INFRINGEMENT

JURY TRIAL

Plaintiff Oakley, Inc. (hereinafter referred to as "Oakley") hereby complains of Defendants 5.11 Inc, dba 5.11 Eyewear, (hereinafter referred to as "5.11"), and alleges as follows:

JURISDICTION AND VENUE

1. Jurisdiction over this action is founded upon 15 U.S.C. §§ 1121, and 28 U.S.C. §§ 1331 and 1338. Venue is proper under 28 U.S.C. §§ 1391(b) and (c), this claim having arisen and Defendant doing business in this district. Defendants sold infringing products in this district and directed sales and marketing efforts toward this district, including the allegedly infringing products, and are putting products on sale in the stream of commerce knowing that such products are or will be sold by partners or distributors or retailers in this judicial district.

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Complaint for Patent Infringement

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THE PARTIES

- Plaintiff Oakley is a corporation organized and existing under the laws 2. of the State of Washington, having its principal place of business at One Icon, Foothill Ranch, California 92610 and doing business within this judicial district.
- Oakley is informed and believes, and thereupon alleges that 3. Defendant 5.11, Inc. does business as 5.11 Eyewear, and is a California, having its principal place of business at 4300 Spyres Way, Modesto, California 95356, and doing business within this judicial district.

FACTUAL BACKGROUND

- 4. As early as 1985, Oakley has been and continues to be actively engaged in the manufacture and sale of high quality sport and leisure sunglasses under various product lines. Oakley is the manufacturer and retailer of several lines of sunglasses, including its "M Frame" sunglass lines.
- 5. Plaintiff Oakley is the owner by assignment of U.S. Patent No. 5,208,614, duly and lawfully issued on May 4, 1993, describing and claiming the invention entitled "Concavely Indented Lenses for Eyewear." A true and correct copy of U.S. Patent No. 5,208,614 is attached hereto as Exhibit 1.
- 6. Oakley is informed and believes, and thereupon alleges that the Defendant is selling eyewear that embodies the technology claimed in U.S. Patent No. 5,208,614 of Oakley. Oakley alleges that Defendant's EAGLE model embodies the subject matter claimed in Oakley's U.S. Patent No. 5,208,614, without any license thereunder and is thereby infringing this patent. Oakley is informed and believes and based thereon alleges that Defendant supplied its EAGLE model to various distributors, retailers, and retail customers, including within this judicial district.
- 7. Defendants was aware of Oakley's proprietary rights in its patents because Defendants received constructive notice of Oakley's patents as Oakley

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caused its patents to be placed plainly on the product and/or packaging. Further, Defendant 5.11 received actual notice by way of a cease and desist letter sent to them on December 14, 2007. Despite actual and constructive knowledge, Defendant has continued to infringe Oakley's patent rights. On information and belief, such infringement by Defendants has been willful and wanton.

- 8. Oakley is informed and believes and thereupon alleges that the Defendant's sale of its infringing sunglasses has resulted in lost sales, has reduced the business and profit of Oakley, and has greatly injured the general reputation of Oakley due to the inferior quality of the copies, all to Oakley's damage in an amount not yet fully determined.
- 9. The exact amount of profits realized by Defendants as a result of its infringing activities, are presently unknown to Oakley, and neither are the exact amount of damages suffered by Oakley as a result of said activities. These profits and damages cannot be accurately ascertained without an accounting. Further, Defendants' actions are irreparably injuring Oakley and will continue unless and until enjoined by this court.

FIRST CLAIM FOR RELIEF

- The allegations of paragraphs 1 through 9 are repled and realleged as though fully set forth herein.
- 11. This is a claim for patent infringement, and arises under 35 U.S.C. §§ 271 and 281.
 - Jurisdiction is founded upon 28 U.S.C. §§ 1331 and 1338.
- Oakley is the owner of U.S. Patent No. 5,208,614, protecting the technology for concavely indented lenses for eyewear. A true and correct copy of U.S. Patent No. 5,208,614 is attached hereto as Exhibit 1. By statute, the patent is presumed to be valid and enforceable under 35 U.S.C. § 282.

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- 14. Defendant through its agents, employees and servants, manufactured, imported, and sold, without any rights or license, sunglasses which fall within the scope and claim contained in U.S. Patent No. 5,208,614.
- 15. Oakley is informed and believes and thereupon alleges that Defendant has willfully infringed upon Oakley's exclusive rights under said patent, with full notice and knowledge thereof. Defendant sold or is selling such infringing sunglasses, have refused to cease the sale thereof, and will continue to do so unless restrained therefrom by this court, all to the great loss and injury of Oakley.
- Oakley is informed and believes and thereupon alleges that Defendant has derived, received and will continue to derive and receive from its acts of infringement, gains, profits and advantages in an amount not presently known to Oakley. By reason of these acts of infringement, Oakley has been, and will continue to be, greatly damaged.
- 17. Defendant will continue to infringe U.S. Patent No. 5,208,614 to the great and irreparable injury of Oakley, for which Oakley has no adequate remedy at law unless said Defendant is enjoined by this court.

WHEREFORE, Plaintiff Oakley, Inc. prays as follows:

- That Defendant be adjudicated to have infringed Oakley's U.S. Patent No. 5,208,614, and that the patent is valid and enforceable and owned by Oakley;
- That Defendants, as well as their agents, servants, employees, and 2. attorneys, and all these persons in active concert or participation with Defendants, be forthwith preliminary and thereafter permanently enjoined from infringing U.S. Patent No. 5,208,614;
- That Defendant be directed to file with this Court and serve upon Oakley within 30 days after the service of the injunction, a report in writing under oath, setting forth in detail the manner and form in which Defendant has complied with the injunction;

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- 4. That Oakley be awarded an assessment of damages for Defendant's infringement of U.S. Patent No. 5,208,614, together with an award of such damages, all in accordance with 35 U.S.C. § 284, but in no event less than a reasonable royalty;
- That Oakley be awarded an assessment of interest against Defendant, 5. together with an award of such interest, in accordance with 35 U.S.C. § 284;
- That Oakley be awarded treble damages against the Defendant for its willful infringement of Oakley's patents, pursuant to 35 U.S.C. § 284;
- 7. For an order requiring Defendants to deliver up and destroy all infringing eyeglasses; and
- 8. That Oakley have such other and further relief as the circumstances of this case may require and as this Court may deem just and proper.

DATED: 2/18/07 WEEKS, KAUFMAN, NELSON & JOHNSON

ØORY K. NELSON

Attorney for Plaintiff, Oakley, Inc.

JURY DEMAND

Plaintiff Oakley, Inc. hereby requests a trial by jury in this matter.

DATED:

12/80

WEEKS, KAUFMAN, NELSON & JOHNSON

ØORY K. NELSON

Attorney for Plaintiff, Oakley, Inc.

Document 1

Patent Number:

5,208,614

Date of Patent: [45]

May 4, 1993

[54] CONCAVELY INDENTED LENSES FOR

United States Patent [19]

EYEWARE

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Capistrano, Calif.

[75] Inventor:

Jannard

[73] Assignee: Oakley, Inc., Irvine, Calif.

[21] Appl. No.: 620,648

[22] Filed:

Nov. 30, 1990

Int. Cl.⁵ G02C 7/02 [52] U.S. Cl. 351/41; 351/158;

351/159 Field of Search 351/158, 159, 41, 43,

351/44

[56]

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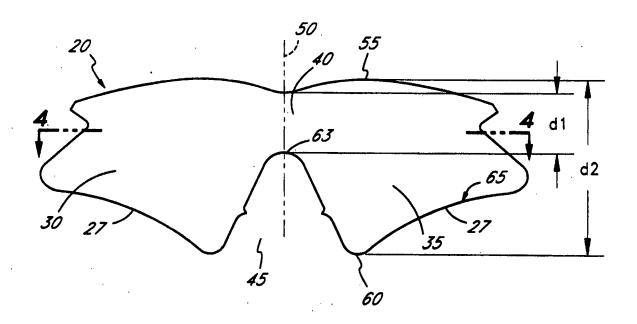
Primary Examiner-Scott J. Sugarman

[57]

ABSTRACT

Disclosed is an arcuately molded lens for use in active eyewear, having along the bottom edge of each right and left lens regions at least one downwardly concave indented area. The indented area may extend across the entire bottom edge of each lens region or it may only extend along a portion of the lens region. Where there is only one concavity per lens region, it may be placed anywhere along the bottom edge of the lens, near the midpoint, center or periphery. The lens may also have multiple concave indentations along its bottom edge.

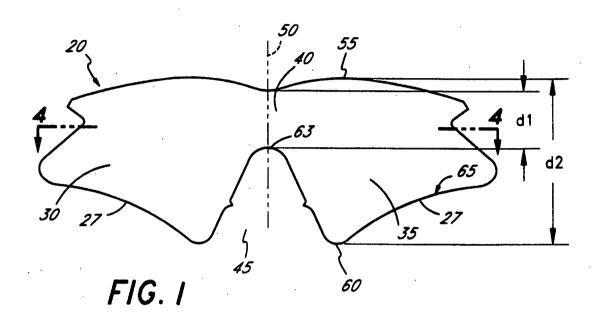
25 Claims, 4 Drawing Sheets

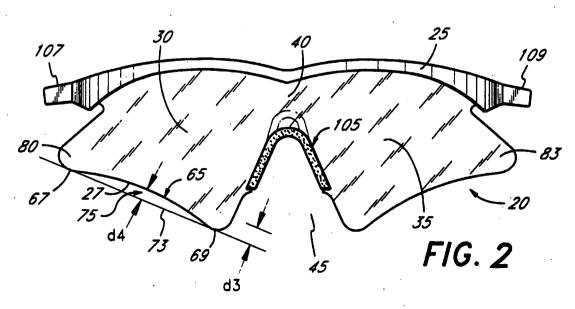


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Sheet 1 of 4

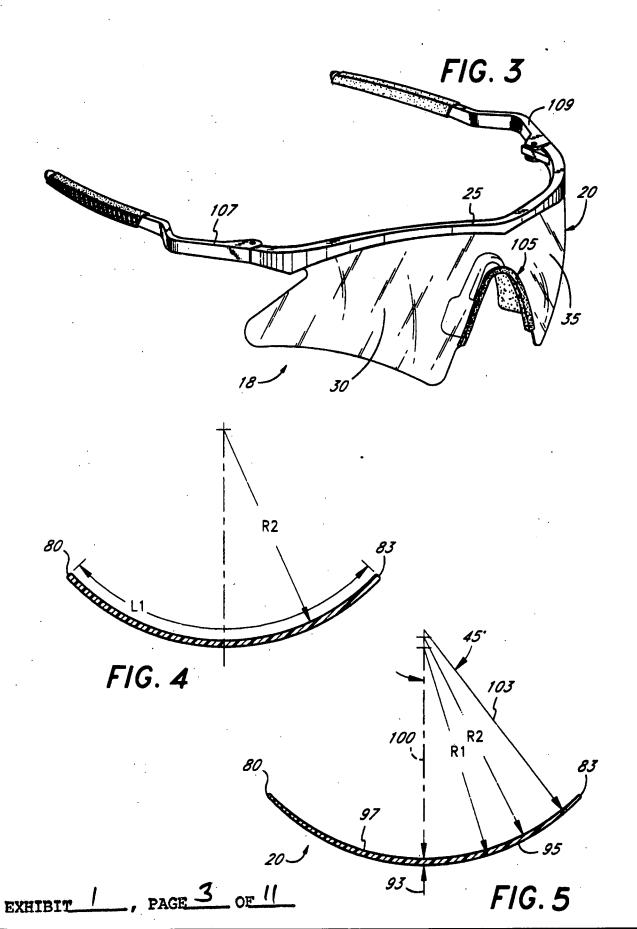
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U.S. Patent

May 4, 1993

Sheet 3 of 4

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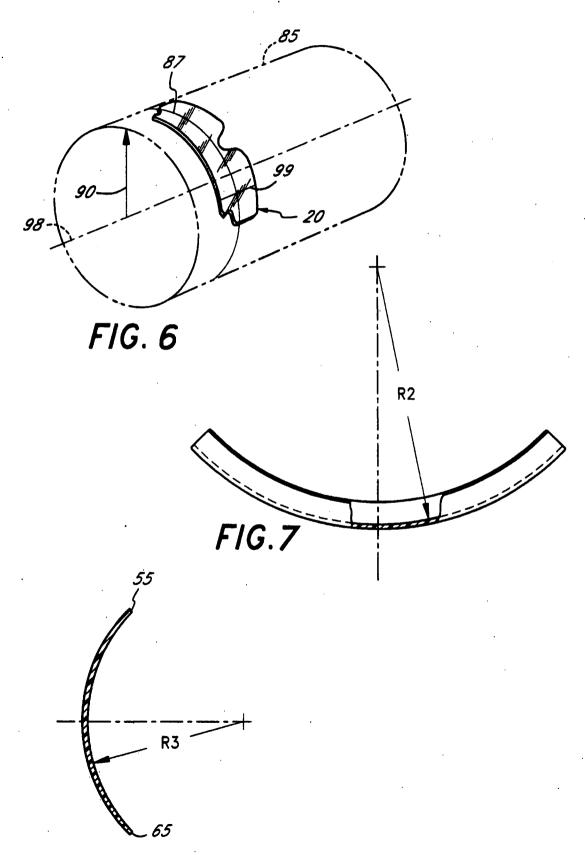
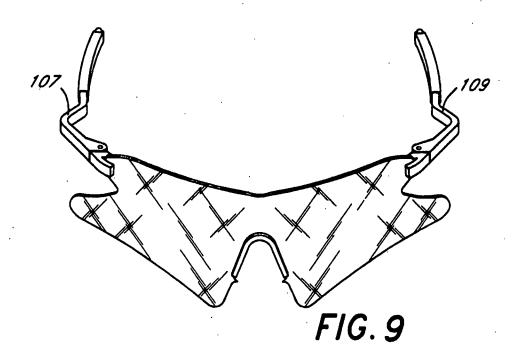


FIG. 8

U.S. Patent

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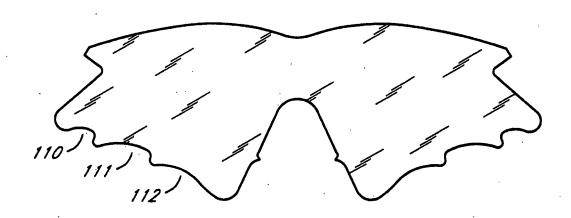


FIG. 10

CONCAVELY INDENTED LENSES FOR EYEWARE

BACKGROUND OF THE INVENTION

This invention relates generally to lenses used in eyewear suitable for active sports, and more particularly, to functional improvements attributable to the shape of the bottom edge of such lenses.

hiking, skiing and bicycle racing is commonly designed to conform closely to the front and sides of the wearer's head. It is advantageous in such low profile eyewear to use arcuately molded lenses. Notwithstanding certain advantages attributable to the close fit, such as periph- 15 eral light interception and aerodynamic efficiency, sufficient ventilation may be impaired, resulting in the wearer being uncomfortable and possibly having impaired vision from fogging of the eyewear lenses. Prior efforts to alleviate this problem have been disclosed in 20 U.S. Pat. Nos. 4,859,048 and 4,867,550, but they are by no means exclusive. The present invention offers an additional means to achieve the desired goals of providing comfort and optimum visibility without diminishing the advantages attendant in arcuately formed eyewear 25 used for participation in active sports.

SUMMARY OF THE INVENTION

There has been provided, in accordance with one aspect of the present invention, an arcuately molded 30 lens for use in eyewear suitable for participation in active sports. The lens has a top edge and a bottom edge having a nose opening for mounting the lens on the nose of a wearer and for defining a right and a left lens region. In one embodiment, there is a nose piece disposed 35 in the nose opening. Over the nose opening in the lens there is a bridge portion. The distance separating the lower edge of the bridge portion and the top edge of the lens is defined as d1 and the distance separating the top edge of the lens and the lowest bottom edge of the lens 40 is defined as d2. d1 is in the range of about 1 inch to 11 inches, and d2 is in the range of about 11 inches to 3 inches. The lens also has an arcuate horizontal cross sectional configuration, wherein its arc length (L1) is in the range of from about 5 inches to about 7 inches. The 45 bottom edge of each right and left lens region is concavely indented. There may be more than one concave indentation per each lens region. The concavely indented regions have a depth dimension within the range of about 1/32 inch to about 11 inches. The sum of the 50 areas of the indentations in a given lens pane in this embodiment may be between approximately 1% and 50% of the remaining area of the surface of that lens pane.

The lens of the present invention has an inner concave surface and an outer convex surface and a thickness there between. The thickness of the lens may be substantially constant throughout or may in at least one portion of each distal region be less than the thickness of the lens in its central region. The thickness of the lens at 60 the midpoint of the central region may taper gradually to a reduced thickness in the distal regions.

In one embodiment of the present invention, the arcuate cross sectional configuration of the lens in its molded condition substantially conforms to the surface 65 of a cylinder. The radius from the axis of the cylinder to an arc defining the inner concave surface of the lens is a substantially constant radius in the range of from

about 2½ inches to about 4½ inches. The radius of curvature of the lens along a horizontal plane may be defined by R2, and the radius of curvature along a vertical plane through the lens may have a radius defined by R3, and R2 may be equal to or less than R3. In another embodiment, R2 is in the range of from about two inches to about four inches, and R3 is greater than or equal to 1.10

Eyewear typically worn during active sports such as thing and bicycle racing is commonly designed conform closely to the front and sides of the wearer's add. It is advantageous in such low profile eyewear to excustely molded lesses. Notwithsteading certain

In a further embodiment of the present invention, the lenses described above may be adapted to be used in a dual lens eyewear system suitable for participation in active sports.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a front elevational view of a lens of the present invention in a flattened condition;

FIG. 2 is a front elevational view of a lens of the present invention, having a frame attached and showing a measurement of the extent of indentation;

FIG. 3 is a front perspective view showing a lens of the present invention as part of an eyewear system;

FIG. 4 is a section along lines 4—4 of FIG. 1 normal to the vertical axis of the lens, in its normal arcuate configuration.

FIG. 5 is a sectional view like FIG. 4, of a tapered thickness embodiment of the lens of the present invention:

FIG. 6 is a perspective view of an arcuate lens of the present invention shown conforming to the surface of a cylinder;

FIG. 7 is a top plan view of a lens of the present invention with the R₂ radius less than R₃;

FIG. 8 is an elevational sectional view of the noncylindrical embodiment of the lens illustrated in FIG. 7;

FIG. 9 is a front perspective view of assembled eyewear in accordance with one aspect of the present invention.

FIG. 10 is a front elevational view of a lens of the present invention having more than one concavity per lens pane.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to FIGS. 1-3, there has been provided in accordance with one aspect of the present invention a lens 20 for mounting in a frame 25 to form eyewear 18 (FIG. 3), conformed to extend in the path of the wear-er's left and right eye fields of vision. In particular, the invention relates to the indented or concave opening downward shape of the lower edge of the lens. The shape of one embodiment of the lens of the present invention is best understood by reference to FIG. 1, which illustrates a relatively smoothly curved, single, concave indentation 27 in each lens pane 30, 35. However, lenses of many other shapes may be envisioned having irregularly shaped indentations or multiple concave indentations for each eye pane (see FIG. 10), which will accrue the advantages of the present invention.

Lenses in accordance with the present invention can be manufactured by any of a variety of processes well EXHIBIT

PAGE 01

known in the art. Preferably, the lens is injection molded and comprises a relatively rigid and optically acceptable material such as polycarbonate. The indentation 27 can be formed in the molding, cutting, or stamping process used to form the lens, or, preferably, is 5 machined into a previously molded lens blank.

Alternatively, the lens can be stamped or cut from flat sheet stock and bent into a curved configuration. This curved configuration can then be maintained by the use of a relatively rigid, curved frame, or by heating 10 the curved sheet to retain its curved configuration, as is well known in the thermoforming art.

A first eye pane 30 and a second eye pane 35 are located in front of the wearer's right and left eyes, respectively. A bridge portion 40 is provided to merge the 15 first and second eye panes into a single lens. Beneath the bridge 40 there is provided a generally triangular nose opening 45. In another embodiment, the first and second panes are not merged into a single lens eyewear system, rather they consist of two separate lenses 20 adapted for use in a dual lens system.

It is understood that the eye panes 30 and 35 will, in the preferred embodiment, be essentially mirror images of each other about a central vertical axis 50 (FIG. 1), and the discussion in connection with one is intended to 25 apply to both. The maximum height d₂ of the lens 20 (see FIG. 1) of the present invention, measured from the top edge 55 of the lens 20 to the lowest point 60 along the bottom edge 65, may be varied to optimize aesthetic within the range of from about 1 to 3 inches, preferably from about 1½ to about 2½ and most preferably between about 1½ to about 1½ inches. The height d1 of the lens 20, measured from the center of top edge 55 of the lens to the lower edge 63 of the bridge portion 40, may also 35 vary, but preferably it is within the range of from about inch to inches and more preferably between about and 1 inch.

The bottom edge 65 of lens 20 is provided with at least one region 27 which is concave, opening in a 40 downward direction. One embodiment of such a concave region is illustrated in FIG. 2 as extending between the lowest points of the concavity 67 and 69. As illustrated therein, the bottom edge 65 is concave in relation to an imaginary straight line 73 drawn between relative 45 low points 67 and 69. Thus, the bottom edge 65 can be seen as diverging away from straight line 73 for a distance d₃ which is greater than zero at at least one point.

Thus, by "concave downward." "indented." "diverging away" and the like terms herein used, it is meant that 50 an imaginary straight line 73 drawn between the two lowest points of a concave indentation 27, for example 67 and 69, defines a regular or irregular enclosure having an area 75 of greater than 0 square inches. A lens in which no straight line 73 can be positioned so as to 55 define a closed area 75 thus does not have a "concavity" as intended herein. This is true of continuously convex prior art lenses, in which case the imaginary line 73 can only be drawn as a tangent to some point along the lower edge 65 of the lens. In a lens having a perfectly 60 straight lower edge, line 73 can only be parallel or coextensive with the lower edge 65, thereby failing to produce a closed space having a positive area 75.

In a dual lens system, there are two distinct lenses, or lens panes, as is well understood. In connection with 65 single lens systems, the singular terms "eye pane" or "lens pane" herein will refer to precisely half of the area of the overall single lens. Thus, a single lens system will

be deemed for the present purpose to be comprised precisely of two equal eye panes.

The extent of the indentation 27 can be characterized in terms of the ratio of the area 75 to the remaining area of the associated eye pane. For example, the area 75 of the concavity preferably is within the range of from about 1% to about 100% of the remaining area of the eye pane. Thus, in the latter instance, the area 75 is precisely the same as the area of the associated eye pane. Preferably, the area of the concavity will be within the range of about 1% to about 30% of the remaining area of the associated eye pane, and more preferably within the range of from about 3% or 4% to about 10% of the area of the associated eye pane.

An alternative way to characterize the indentation 27 in the lens of the present invention is by the depth d3 thereof along an axis perpendicular to the axis of the imaginary straight line 73. Since the indentation 27 by definition requires a distance between straight line 73 and the bottom edge 65 of the lens, the depth d3 can be measured along a perpendicular line drawn between straight line 73 and at least some point along bottom edge 65. Since the depth d3 will vary across the length of the concavity, it is convenient to measure the maximum depth d4 for each concavity. The maximum depth d4 is the deepest part of the concavity measured by a line drawn perpendicularly to straight line 73.

In a single concavity embodiment such as illustrated in FIG. 2, the depth d4 is generally within the range of and functional considerations, but will typically fall 30 from about 1/64 of an inch to about one inch. Preferably, the depth will be in the range of from about 1/32 inch to about ½ inch, and most preferably between about inch and about 3/16 inch, although in a design for applications where maximizing ventilation is deemed desirable, a minimum depth of at least about 3/16 inch will be used, and a minimum of at least about 1 inch or even inch may be desired.

The ventilation function will be maximized by a combination of factors, as will be understood by one of skill in the art in view of the teachings of this disclosure. For example, a lens with a relatively large vertical coverage of the face will tend to require a deeper d4 dimension to achieve meaningful ventilation as compared to a relatively vertically narrow lens, the lower edge of which is already generally at or above the cheek bone. In a lens which has multiple concavities along the bottom edge of a single lens pane (FIG. 10), the depth d4 of each individual concavity 110, 111, 112 will generally be less than the depth d4 of the concavity in a single concavity

The precise geometric profile of the indented regions may vary, and where there are more than one indented region per eye pane, they need not repeat the same shape (see FIG. 10).

In an embodiment where lower lens edge 65 defining the concave indentation 27 in the lens 20 has a curve of substantially constant radius throughout its arc length between low points 67 and 69, the radius of curvature is preferably within the range of from about 1 to about 12 inches, or more preferably from about 11 to about 6 inches.

and contained by the axis 98 (FIG. 6) of the cylinder defined by the panes. The lens 20 has a horizontal length dimension L₁ (FIG. 4) between the generally rearwardly extending distal ends 80 and 83 which measures in the range of from about 5 inches to about 7 inches. The lens is further characterized by a radius R2, detailed

In the preferred embodiment of the present invention, the lens pane, be it single or adapted for use in a dual lens system, is arcuately formed. For example, the embodiments depicted in FIGS. 4, 5 and 6 exhibit cylindrical curvature along the horizontal plane, preferably 5 imparted from the molding process. Note that panes 30 and 35 and distal ends 80 and 83 wrap backwardly or rearwardly to extend in the paths of the wearer's peripheral fields of vision, without such abruptly changing curvature as would distort the light passing through the 10 side wrapping portions of the panes.

FIG. 6 depicts a unitary lens of the present invention substantially conforming to the exterior surface of a cylinder 85. The benefits derived from a cylindrically shaped unitary lens are expounded in U.S. Pat. No. 15 4,859,048, which is incorporated herein by reference. Thus, one embodiment of the lens of the present invention is preferably provided with a substantially uniform curve, such that a line 87 (FIG. 6) drawn along the surface of the lens 20 in a circumferential direction 20 defines an arc of substantially uniform radius 90. A line 99 drawn along the surface of the lens 20 in an axial direction is substantially parallel to the axis 98 of a cylinder 85.

Although a variety of radii might accrue the advan- 25 tages of the present invention, the lens is preferably provided with a radius 90 within the range of from about 2½ to about 4½ inches, and preferably within the range of from about 3½ to 4 inches. The foregoing radius dimensions represent the distance from the axis 98 to the 30 interior, concave surface of the lens.

The lens of the present invention may alternatively be curved along each of two substantially perpendicular axes to produce a lens, for example, which conforms to the surface of generally toroidal configuration. Thus, a 35 cross-section of the lens taken along a horizontal plane (not illustrated) midway from the bottom edge 65 of the lens to the top edge 55 will reveal an arcuate cross-sectional configuration, characterized by a first radius dimension R₂ as shown in FIG. 7. Unlike the cylindrical 40 lens, however, a vertical cross-section through the lens reveals a curvature from top edge 55 to bottom edge 65 characterized by a second radius dimension R₃, as shown in FIG. 8. Where R2 equals R3, the lens will conform to the surface of a sphere. Where R2 is less than 45 R₃, the lens will conform to the surface of a toroid. Such toroidal lenses are the subject of U.S. Pat. No. 4,867,550 which is incorporated herein by reference.

The lens of the present invention has sufficient thickness that it is not accurately defined as having only a single radius. Instead, referring to FIG. 5, the lens 20 has a thickness or depth dimension 93 along its entire arc length which causes the arc defined by the outer, convex surface 95 to have an additional radius R1 to the radius R₂ defined by the inner, concave surface 97 of 55 lens 20. In an embodiment where the lens is of substantially uniform thickness throughout, and the axes are coincident, the radius R₁ of the convex surface 95 is essentially equal to the sum of the radius R2 of the concave surface 97 and the depth 93 of the lens.

In accordance with another embodiment of the present invention, there has been provided a unitary lens substantially as any of those described above, with one following modification. Referring to the horizontal sectional view illustrated in FIG. 5, there is disclosed a 65 lens 20 defined between an outer convex surface 95, having a radius R₁, and an inner concave surface 97, having a radius R₂. The principal difference from the

previously detailed embodiment is that the thickness of the lens 20 at each of the distal ends 80 and 83 is less than the average thickness of the lens at every point intermediate the two distal ends 80 and 83. In addition, the thickness of lens 20 measured at at least one point intermediate the two ends 80 and 83 is greater than the thickness at each of those ends.

The invention can best be understood by reference to FIG. 5, which illustrates the relationship between the lens thickness and angular position along the arc length of a lens. Since the arc length of a lens can be varied considerably, although it is preferably within the range of from about 5½ to 7 inches, reference points will arbitrarily be selected at the centerline 100 and at the 45° line 103. Since the distance from centerline 100 to reference line 103 is 1 of 360°, the reference arc length for a radius of 3 inches is about 4.7 inches, which is below the preferred range, thus defining a reference point on the

In accordance with the tapered lens embodiment of the present invention, the thickness of the lens at reference line 103 is preferably from about 40% to about 99% of the thickness at centerline 100. Thus, for example, a lens having a centerline thickness 100 of about 0.060 inches will preferably have a thickness of within the range of about 0.024 to about 0.059 inches at reference line 103, and a thickness near the distal end 83 of the lens within the range of about 0.020 to about 0.055 inch. The thickness of the lens at the midpoint is preferably within the range of from about 0.055 to about 0.070 inch.

Preferably, the thickness of the lens tapers at a substantially even rate from the widest region which is centered about the centerline 100, to narrower regions near each of the distal ends 80 and 83. In this manner, optical distortion is minimized. By even rate it is meant that the taper results from the convergence of an arc defining the outer convex surface 95 of lens 20, and an arc defining the inner concave surface 97 of lens 20, each arc characterized by constant radii R₁ and R₂, respectively. Although the surfaces need not be perfectly uniform arcs, as in the previously discussed embodiment, conformation of the lens surface to a substantially constant radius curve accrues optical advantages. The foregoing may be accomplished in a variety of ways, such as, for example, by making radius R₁ equal to radius R₂ and displacing the center points from each other. Alternatively, radius R1 may be greater or lesser than radius R2, so long as the converging geometry results.

In the production lens, of course, the distal ends 80 and 83 are formed Well before the continuation of the arcs defining surfaces 95 and 97 converge. In a cylindrical lens produced in accordance with this embodiment, for example, and having a centerline thickness of approximately 0.060 inches, the thickness at a point proximate either distal end 80 or 83 will generally be within the range of from about 0.040 to about 0.055 inch.

Finally, since a portion of the lens 20 near the distal 60 ends 80 and 83 serves primarily to block peripheral light and is likely outside of the wearer's direct line of vision, it is less important that the radius of curvature be constant in this area. Thus, the lens may be provided with a smooth taper only up to a certain transition point intermediate the reference line 103 in FIG. 5 and the distal end 83. From that transition point until the distal end 83, the lens 20 may be provided with a relatively constant thickness or a taper of a different rate.

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Referring to FIG. 3, the lens of the present invention may be provided with a top frame 25 extending along and bounding the upper edge 55 of the lens, and secured by conventional means. Alternatively, the frame can bound the lower edge of the lens, the entire lens, or any other portion of the base as will be evident to those of skill in the art.

Preferably, the lens of the present invention is mounted in eyewear having no lower frame, thereby leaving the lower edge of the lens exposed. This reduces 10 the weight and bulk of the eyewear, and allows maximization of ventilation through concavity 27. At the same time, the vertical height of the lens can be minimized while still optimizing the vertical field of view without obstruction from the lower frame. The frame advanta- 15 geously consists of any of a variety of relatively rigid, molded thermoplastic materials which are well known in the art, and may be transparent or dyed any of a variety of colors.

A nosepiece 105 may be provided, as illustrated in 20 FIGS. 2 and 3, which bounds the pane in the region of the nose opening 45. The nosepiece 105 preferably comprises a relatively soft elastomeric material having a coefficient of sliding friction that increases when the material is wetted. Such a material is preferably hydro- 25 philic, and tends to retain the eyewear in position on the wearer's upper nose area as the wearer perspires or encounters moisture as during skiing. Also, the preferred material is soft, for comfort. One such material is KRATON G, a product of Shell Oil Company.

30 Finally, referring to FIGS. 2, 3 and 9, eyewear embodying the lens of the present invention are provided with a pair of earstems 107, 109. Earstems 107, 109 may be formed in the same manner as upper frame 25. Earstems 107, 109 may be pivotably secured to the lateral 35 ends of an upper frame 25 (FIGS. 2 and 3) or to a frame which also or alternatively bounds the lower edge of the lens (not illustrated). Earstems 107, 109 may also be pivotably secured directly to the lens (FIG. 9) without the use of a conventional frame.

Although this invention has been described in terms of certain preferred embodiments, other embodiments that are apparent to those of ordinary skill in the art are also within the scope of this invention. Accordingly, the scope of this invention is intended to be limited only by 45 the appended claims.

What is claimed is:

1. An arcuately molded lens for eyeglasses for participation in active sports, such as biking and skiing, said lens comprising:

a top edge and a bottom edge, said bottom edge having a nose opening therein for mounting said lens on the nose of a wearer and for defining a right and a left lens region;

ing, the distance separating the lower edge of said bridge portion and the top edge of the lens being defined as d₁ and the distance separating the top edge of the lens and the lowest bottom edge of the lens being defined as d2, wherein d1 is in the range 60 of about 1 inch to about 1 inches, and d2 is in the range of about 1½ inches to about 3 inches;

said lens having an arcuate horizontal cross sectional configuration, wherein the arc length (L1) of said lens is in the range of from about five inches to 65 about seven inches:

wherein the bottom edge of each of said right and left lens regions is concavely indented, open in the downward direction, with a maximum indentation depth of no less than about 1/16 of an inch.

2. An arcuately molded lens for eyeglasses as in claim 1, wherein each of said concavely indented regions has a maximum depth within the range of from about 1/16 inch to about & inch.

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3. An arcuately molded lens for eyeglasses as in claim 1, wherein at least two concavely indented regions are provided in each of said right and left lens regions.

4. The lens of claim 1, wherein the sum of the areas of the indentations in any one of said lens regions is between approximately 1% and 50% of the remaining area of said lens region.

5. An arcuately molded lens for eyeglasses as in claim 4. wherein each of said concavely indented regions has a depth within the range of about 1/32 inch to about 1}

6. A pair of eyeglasses, comprising a right and left earstem pivotably attached to an arcuately molded lens, wherein said lens comprises a top edge and a bottom

said bottom edge having a nose opening therein for mounting said lens on the nose of a wearer and for defining a right and a left lens region;

said lens having a bridge portion over said nose opening, the distance separating the lower edge of said bridge portion and the top edge of the lens being defined as d1 and the distance separating te top edge of the lens and the lowermost bottom edge of the lens being defined as d2, wherein d1 is in the range of ½ to about 1½ inches, and d2 is in the range of about 11 inches to about 3 inches,

said lens having an arcuate horizontal cross sectional configuration, wherein the arc length (11) of said lens if in the range of from about five inches to about seven inches,

wherein the bottom edge of each of said right and left lens regions is concavely indented, opnen in the downward direction, with a maximum indentation depth of no less than about 1/16 inch.

7. A pair of eyeglasses as in claim 6, further comprising an upper frame, wherein said earstems are pivotably secured to said upper frame and said upper frame is secured to said lens.

8. A pair of eyeglasses as in claim 6, further comprising an upper and a lower frame, wherein said earstems are pivotably secured to said upper frame and said upper frame is secured to said lens.

9. A pair of eyeglasses as in claim 6, further comprising a frame which surrounds said lens, wherein said earstems are pivotably secured to said frame and said frame is secured to said lens.

10. A lens for eyeglasses, said lens being suitable for said lens having a bridge portion over said nose open- 55 participation in active sports, such as biking and skiing,

> an upper edge and a lower edge, said lower edge having a nose piece opening therein for mounting said lens on the nose of a wearer and for defining a right and a left lens region,

> said lens having an arcuate horizontal cross sectional configuration in its molded condition.

> said lens having an inner concave surface and an outer concave surface and a thickness there between.

> wherein the lower edge of each of said right and left lens regions is provided with at least one indentation having a depth no less than about 1/16 inch,

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thereby facilitating ventilation below and behind

11. The lens of claim 10, wherein said arcuate horizontal cross-sectional configuration of said lens is comprised of a central region and a first and second adja-5 cent, distal regions, the thickness of said lens in at least one portion of each of said distal regions being less than the thickness of said lens in said central region.

12. The lens of claim 11, wherein the thickness of said lens at the midpoint of said central region tapers gradually to a reduced thickness in said distal regions.

13. The lens of claim 10, wherein the sum of the areas of said indentations in either of said left or right lens regions is between approximately 1% and 50% of the 15 frame is secured to said lens. remaining area of said left of right lens region.

14. The lens of claim 13, wherein no more than one indentation is provided in each of said right and left lens

15. The lens of claim 10, wherein said lens has an 20 arcuate horizontal cross-sectional configuration in its molded condition which substantially conforms to the surface of a cylinder.

16. The lens of claim 15, wherein the radius from the axis of said cylinder to the inner concave surface of said 25 lens is a substantially constant radius in the range of from about 2½ inches to about 4½ inches.

17. The lens of claim 10, wherein the radius of curvature of said lens along a horizontal plane is defined by R₂, the radius of curvature along a vertical plane ³⁰ through said lens has a radius defined by R3, and wherein R₂ is equal to or less than R₃.

18. A lens as in claim 17, wherein R₂ is in the range of from about 2 inches to about 4 inches, and R₃ is greater than or equal to 1.10 R₂.

19. A pair of eyeglasses, comprising:

a lens having an upper edge and a lower edge,

said lower edge having a nose piece opening therein for mounting said lens on the nose of the 40 wearer and for defining a right and left lens re-

said lens having an arcuate horizontal cross sectional configuration in its molded condition,

outer concave surface and a thickness therebetween.

wherein the lower edge of each of said right and left lens regions is provided with at least one indentation having a depth no less than about 50 1/16 inch, thereby facilitating ventilation below and behind the lens; and

a right and a left earstem pivotably attached to the

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20. A pair of eyeglasses as in claim 19, further comprising an upper frame, wherein said earstems are pivotably secured to said upper frame and said upper frame is secured to said lens.

21. A pair of eyeglasses as in claim 19, further comprising a nose piece disposed in the nose piece opening formed on the lower edge of said lens.

22. A pair of eyeglasses as in claim 19, further comprising a frame which surrounds said lens, wherein said earstems are pivotably secured to said frame and said

23. An eyeglass lens of the type adapted to be used in a dual lens eyewear system suitable for participation in active sports, such as biking and skiing, said lens comprising a top edge and bottom edge wherein the bottom edge of said lens is indented upwardly to form at least one downward facing concavity for facilitating ventilation between the bottom edge of the lens and the face of a wearer when said lens is mounted on a frame to form a pair of eyeglasses.

24. An arcuately molded lens for eyeglasses comprising a top edge and a bottom edge, said bottom edge having a nose piece opening formed therein for mounting said lens on the nose of a wearer and for defining a right and a left lens region, the improvement comprising at least one concave ventilation indentation in the bottom edge of each of said right and left lens regions.

25. An arcuately molded lens for eyeglasses comprising a lens having a top edge and a bottom edge, said bottom edge having a nose piece opening formed therein for mounting said lens on the nose of a wearer and for defining a right and a left lens region, and wherein said lens has a bridge portion over said nose piece opening, the distance separating the lower edge of said bridge portion and the top edge of the lens being defined as d1 and the distance separating the top edge of the lens and the bottom edge of the lens being defined as d2, wherein D1 is in the range of about 178 inch to 13 inches, and d2 is in the range of about 11 inches to 21 inches, and said lens has an arcuate cross-sectional consaid lens having an inner concave surface and an 45 figuration, wherein the arc length (L1) of said lens is in the range of from about 5½ inches to 7 inches, the improvement comprising at least one concave ventilation indentation in the bottom edge of each of said right and left lens regions.

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: 5,208,614

DATED

: May 4, 1993

INVENTOR(S)

: James H. Jannard

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 7, line 61, *about 1 * inches, and about 1-3/4 inches, and ...

Column 8, line 29, "lowermost bottom edge" should read "lowest bottom edge".

Column 8, line 32, "of 1/4 to about" should read "of about 1/4 inch to about".

Column 8, line 36, "if in the range" should read "is in the range".

Column 9, line 16, "left of right lens region" should read "left or right lens region".

Column 9, line 39, "of the wearer" should read "of a wearer".

Column 10, line 42, "of about 178 inches" should read "of about 1/2 inch".

Signed and Sealed this

Nineteenth Day of April, 1994

eure Choran

Attest:

BRUCE LEHMAN

Attesting Officer

Commissioner of Patents and Trademarks

	(Rev. 11/04)	3:07-cv-02369-BT	CIVIL COV	VER SHEET	S and the same of	17 of 18			
The JS 44 civil cover sheet and the information contained herein neither replace nor supplement the filing and service of pleadings of other papers as required by lay, except as proved by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initial the civil docket sheet. (SEE INSTRUCTIONS ON THE REVERSE OF THE FORM.)									
I. (a) PLAINTIFFS OAKLEY, INC., a Washington corporation				DEFENDANTS 5.11, Inc., a Calif	ornia corporation	1 G 2007			
(b) County of Residence of First Listed Plaintiff Orange county, CA (EXCEPT IN U.S. PLAINTIFF CASES)				County of Residence of First Liste Borndani (IN U.S. PLANTING CASES ONLY) "NOTE: IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE LAND INVOLVED.					
(c) Attorney's (Finn Name, Address, and Telephone Number) Weeks, Kaufman, Nelson & Johnson, 462 Stevens Ave., #310, Solan Beach, CA 92075 (858) 794-2140				CA S 2 6 A B I M CAR					
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□ 2	U.S. Government Defendant	☐ 4 Diversity (Indicate Citizenshi)	o of Parties in Item III)	Citizen of Another State	1 2	Another State			
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	REQUESTED IN COMPLAINT:	CHECK IF THIS UNDER F.R.C.P.	IS A CLASS ACTION 23	DEMAND \$	CHECK YES only JURY DEMAND	if demanded in complaint: Yes No			
VIII.	RELATED CAS	E(S) (See instructions):	JUDGE see Notice o	f related cases file herew	ith DOCKET NUMBER				
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UNITED STATES DISTRICT COURT

SOUTHERN DISTRICT OF CALIFORNIA SAN DIEGO DIVISION

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