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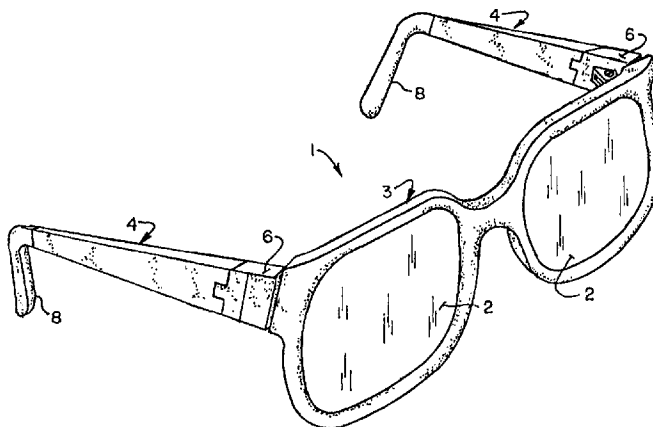
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(51) Int.Cl.<sup>6</sup> G02C 11/02, G02C 5/14

(30) 1996/05/23 (08/651,271) US

(54) **LUNETTES DECORATIVES**

(54) **DECORATIVE EYEGLASSES**



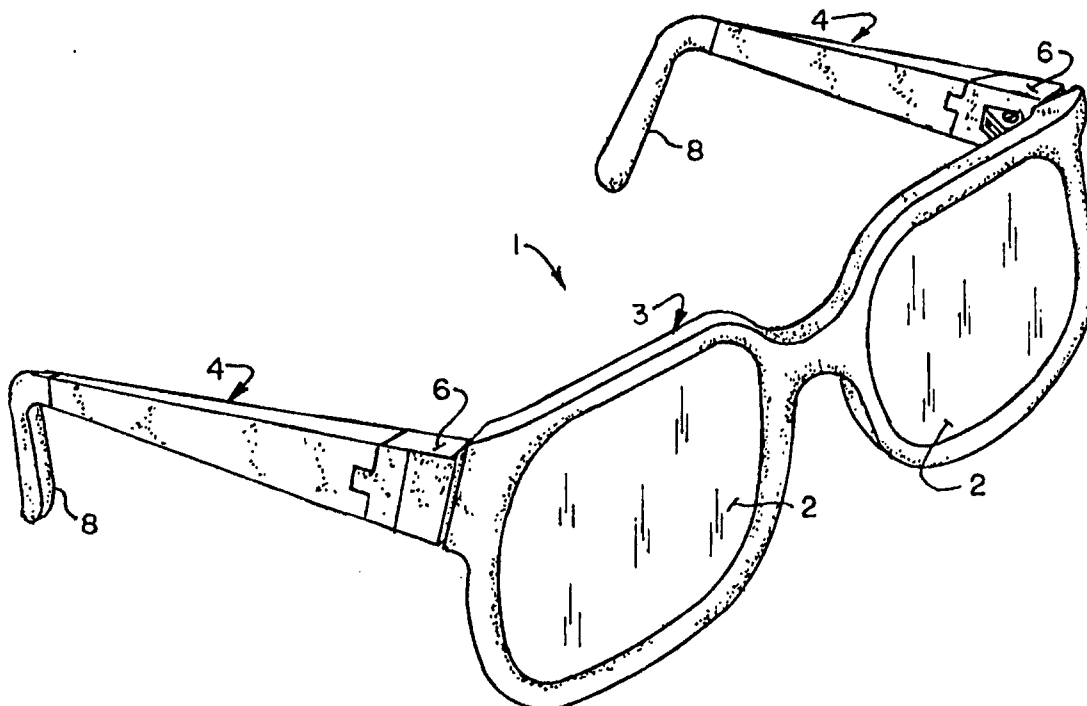
(57) Ces lunettes (1) présentent une monture (3) destinée à porter des verres ainsi que des branches (4) fixées sur cette monture et comportant un bloc (6), fixé à charnière sur la monture, des cambres (8), ainsi qu'un segment (7) situé entre le bloc et les cambres et monté sur le bloc de charnière, de façon pivotante par rapport au cadre. Le segment pivotant peut revêtir plusieurs formes, présenter différentes décorations imprimées sur différents côtés, ou être multicolore.

(57) Eyeglasses (1) having a lens-carrying frame (3) and temple pieces (4) mounted to the lens-carrying frame, the temple pieces including a temple block (6) hinged to the frame, ear pieces (8), and, between the block and the ear pieces, a segment (7) mounted on the hinge block, but rotatably mounted with respect to the frame. The rotatable section can be made in various shapes, or imprinted with various different decorations on different sides, or made varicolored.

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<b>(21) International Application Number:</b> PCT/US97/04037 <b>(22) International Filing Date:</b> 14 March 1997 (14.03.97)  <b>(30) Priority Data:</b> 08/651,271                      23 May 1996 (23.05.96)                      US  <b>(71)(72) Applicant and Inventor:</b> KIRSCHNER, Mitchell [US/US]; 7235 Creveling Drive, St. Louis, MO 63130 (US).  <b>(74) Agent:</b> POLSTER, Philip, B.; Polster, Lieder, Woodruff & Lucchesi, 763 South New Ballas Road, St. Louis, MO 63141 (US).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>With amended claims and statement.</i>

**(54) Title:** DECORATIVE EYEGLASSES**(57) Abstract**

Eyeglasses (1) having a lens-carrying frame (3) and temple pieces (4) mounted to the lens-carrying frame, the temple pieces including a temple block (6) hinged to the frame, ear pieces (8), and, between the block and the ear pieces, a segment (7) mounted on the hinge block, but rotatably mounted with respect to the frame. The rotatable section can be made in various shapes, or imprinted with various different decorations on different sides, or made varicolored.

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## DECORATIVE EYEGLASSES

Technical Field

This invention relates to eyeglasses with changeable temple pieces.

5 Background Art

Eyeglasses with temple pieces the configuration, color or design of which can be changed have been suggested heretofore. Albanese, U.S. Patent 5,321,442, discloses glasses with ear pieces that are removable and a sleeve 8 that can be snapped onto or slipped from the side over a frame temple piece 4. Shaw, U.S. Patent 4,848,889, discloses means for  
10 decorating the lens-holding frame rather than the temple pieces, by forming the frame as a hollow tube into which flexible colored members can be inserted.. It is clear from Albanese that the ornaments display only one aspect. If more than one ornamental side piece were desired, a piece not in  
15 use would have to be stored somewhere or discarded.

Disclosure of the Invention

One of the objects of this invention is to provide eyeglasses with temple pieces the appearance of which can be changed by simple manipulation of the temple pieces. Other objects will become apparent to  
20 those skilled in the art in the light of the following description and accompanying drawing.

Disclosure of the Invention

In accordance with this invention, generally stated, in an eyeglass having a lens-carrying frame and temple pieces, the temple pieces being  
25 mounted at one end of the frame and having a head-engaging part at another end, segments of at least one of the temple pieces are rotatable with respect to the lens-carrying frame, the segments carrying indicia, generally integral with the segments. In the preferred embodiments, the rotatable segments are held positively to inhibit their unintended rotation.

30 Brief Description of Drawings

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In the drawing, Figure 1 is a view in perspective of a pair of glasses illustrating temple pieces of this invention;

Figure 2 is a view in side elevation, partly broken away and partly in section, of one embodiment of the eyeglasses of this invention;

5        Figures 3A through 3E illustrate various forms of rotation inhibiting or preventing means;

Figure 4 is a view in side elevation, partly broken away and partly in section, of a second embodiment of this invention;

10        Figure 5 is a view in side elevation of a third embodiment of this invention;

Figure 6 is a view in side elevation illustrating a fourth embodiment of this invention;

15        Figures 7A through 7E are transverse sectional views of temple pieces adapted to use with the embodiments shown in Figures 2, 4, 5, 6, 8, 12, 14, and 21;

Figure 8 is a view in side elevation of a fifth embodiment of this invention;

Figure 9 is a fragmentary longitudinal view of a sixth embodiment of this invention;

20        Figure 10 is a sectional view taken along the line 10-10 of Figure 9;

Figure 11 is a fragmentary view in side elevation of the device shown in Figures 9 and 10 in a position at which the temple piece can be rotated;

25        Figure 12 is a fragmentary top plan view of a eyeglass of the embodiment shown in Figures 9 through 11;

Figure 13 is a fragmentary view in side elevation, partly broken away, of a hinge block and temple piece of a seventh embodiment of eyeglass of this invention;

30        Figure 14 is a fragmentary top plan view of the hinge block and temple piece of Figure 13, hinged to an eyeglass lens-holding frame;

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Figure 15 is a sectional view taken along the line 15-15 of Figure 13;

Figure 16 is a fragmentary view, partly broken away of the end of the temple piece of Figure 13 contiguous the hinge block;

5 Figure 17 is a view in end elevation of the temple piece of Figures 13-16:

Figure 18 is a view in front elevation of the hinge block of figure 13;

10 Figure 19 is a view in side elevation of a partly assembled hinge block of Figure 18;

Figure 20 is a view in front elevation of a hinge block of an eighth embodiment of eyeglass of this invention; and

Figure 21 is a fragmentary top plan view of an eyeglass incorporating the hinge block of Figure 20.

15 Best Mode for Carrying Out the Invention

Referring now to Figures 1 through 4, reference numeral 1 indicates a pair of eyeglasses, which can be sunglasses, safety glasses, ordinary corrective lens-type glasses or any combination of these. The glasses 1 have a frame 3, in which lenses 2 are mounted, temple pieces 4, and ear  
20 pieces 8. In the embodiments shown in figures 1-8, the temple pieces 4 include a hinge block 6, which is hinged, in a conventional way, to the frame 3 at one end of the hinge block, one illustrative example of which is shown in Figure 1. A face of the hinge block abuts the frame 3, in a conventional way, to limit the outward rotation of the temple pieces with  
25 respect to the frame. A surface of the hinge block generally parallel to the frame-abutting face, faces a surface of a rotatable segment of the temple pieces.

Referring now to Figure 2 for one illustrative embodiment of this invention, the hinge block 6 has on a surface 9 facing a rotatable segment 7  
30 of the temple piece 4, a face plate 11, in an outer surface of which are

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dimples 12. The face plate 11 has a passage through a central part, through which a pin 13 extends. An outer end 13 of the pin 13 is fixed in the hinge block 6. At an inner end of the pin 13, the pin carries a head 18. The head end of the pin is mounted in a socket or well 10 in an end of the rotatable segment 7 of the temple piece along with a helical compression spring 19, caged between an underside of the head 18 and an inner surface of a temple segment plate 15 secured to the section 7. The temple segment plate 15 has projections 16 complementary to the dimples 12, in both size and location. The length of the spring 19 is such as to permit the rotatable segment 7 of the temple piece 4 to be retracted as shown in Figure 2, and permitted to be biased by the spring into a position at which the projections 16 seat in the dimples 9, thus restraining the rotatable segment 7 from accidental rotation.

It can be seen that if the segment 7 is rotated through 180°, the side of the temple piece 4 that was exposed exteriorly, will then be contiguous the temples of the wearer. In this embodiment, the ear pieces 8 will also be rotated. Accordingly, it is necessary to make the ear pieces orientable into the position shown in Figure 2, regardless of which side of the rotatable segment 7 is exposed. To this end, a cavity 25 is provided in the end of the rotatable segment 7 farthest from the frame, and the ear pieces 8 are provided with snap prongs 23 which are selectively manually pushed into and pulled from the cavity 25.

In the embodiment shown in Figure 4, eyeglasses 41 have a frame 43, temples 44 and ear pieces 58. A temple block 46 is hingedly mounted on the frame 43. In this embodiment, a rod 53 is anchored at one end in the block 46, and, at its other end, is provided with a head 61. A rotatable segment 47 is rotatably mounted on the rod 53. The rotatable segment 47 has at its end adjacent the ear piece a square socket or mortise 59 in the ear piece, a square tenon 57 of a size and shape complementary to inside surfaces of walls defining the socket 59, so as to seat within the socket 59. At its other end, the rotating segment 47 has on it a tenon 56 which is

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shaped and sized complementarily to a socket, mortise or well 50 in the hinge block 46. A spring 65 is mounted on the rod 53 within the socket 59, and is caged between an under surface of the head 61 and an inner surface of an annular stop 63 that is press fitted or otherwise securely mounted within the socket 59.

In this, second, embodiment, as can be seen from Figure 4, when the rotatable segment 47 is to be rotated, the eye piece 58 is pulled manually, against the bias of the spring, away from the frame 43 until the tenons 56 and 57 have cleared the "mortises" 50 and 59, when the segment 47 can be rotated on the rod 53. When the ear piece 8 is released, the spring 65 biases the ear piece into engagement with the rotating segment 47, and the rotating segment 47 into engagement with the hinge block 46, the rotatable segment being oriented so that the tenons are seated in the mortises, thus preventing further rotation of the segment 47 and also of the ear piece 58, until the ear piece is again retracted.

Referring now to Figures 3A, B, C, D and E, some of the various forms of mortise and tenon configurations that can be used, with simple modification, with the embodiments of either Figure 2 or Figure 4, are illustrated. Figure 1 illustrates yet another form, in which a tongue and groove arrangement is used to accomplish the same object, in the case of the glasses shown in Figure 1, the tongue being provided on the hinge block 6 and the groove in the rotating segment of the temple piece 4. The locking devices shown in Figures 3A through 3E allow for different degrees of rotation: the rectangular arrangement of Figure 3A permitting only two positions, at 180° from one another, the triangular arrangement of Figure 3B permitting three degrees of rotation, 120° apart, the square tenon of Figure 3C permitting four degrees, 90° from one another, the rectangular mortise and tenon of Figure 3D permitting two degrees of rotation, and the cruciform mortise and tenon arrangement of Figure 3E permitting four. It will be apparent that only the form shown in Figures 1, 3A and 3D will be

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useable with the two-sided rotatable segment of the embodiment shown in Figures 1 and 2; all of the arrangements can be used with the rotatable segment 47 of the embodiment shown in Figure 4, depending upon the cross-sectional configuration of the rotatable temple segment 47. Thus, if  
5 the segment 47 has a configuration as shown in Figure 7B, it can accommodate the mortise and tenon shown in Figure 3B; if a configuration shown in Figures 7C or 7E, it can accommodate the configurations of mortise and tenon shown in Figures 3C and 3E. These, however, are merely illustrative .

10 Referring now to Figure 5, a pair of eyeglasses 71, with a frame 73, has temples 74, with hinge blocks 76, each with a rotatable segment 77, and ear pieces 78. The embodiment shown in Figure 5 is similar to that shown in Figure 2, except that the rotatable segment 77 can be given any of the cross-sectional configurations shown in Figures 7A through 7E, the mortise  
15 and tenon arrangement being appropriate to the particular configuration. The securing and releasing mechanism can be that of either of the embodiments shown in Figures 1 and 2.

In Figure 6, eyeglasses 81 are shown, with a frame 83, temples 84, hinge blocks 86 and a rotatable segment 87. This embodiment corresponds  
20 to the embodiment shown in Figure 4, with a rod 93, shown somewhat schematically.

Referring now to Figure 8, eyeglasses 101 are shown as having a frame 103, hinge blocks 106, ear pieces 108, and a rod 113. Rotatably mounted on the rod 113 are a series of segments 117, 118, 119, 120, 121  
25 and 122, all independently rotatable, and all having some form of rotation inhibiting structure at each end, complementarily shaped and sized with respect to a contiguous piece, thereby providing a multiple combination of surfaces.

Referring now to Figures 9 through 12 for yet another embodiment  
30 eyeglass of this invention, reference numeral 121 indicates the eyeglass of



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this embodiment, with a frame 123 and a rotatable temple piece 124. The temple piece is mounted to the frame by means of a hinge 125, a central knuckle 138 of which has a part embedded in the frame.

Upper and lower knuckles 126 and 127 are formed integral with a leaf 129.

5 The leaf 129 has a center prong 130 with a Tee head 131. An upper prong 133 is spaced above the center prong 130 and a lower prong 134 is spaced below the center prong 130. In each of the upper and lower prongs, on the outer side of the prong, is a recess 136. At the free end of the prongs 133 and 134, each is chamfered as shown at 137.

10 At the hinge end of the rotatable temple piece 124, is a central cavity or blind passage 139, with a radially inwardly extending interrupted rim 141, interrupted diametrically by a transverse slot 142 through it, the slot being perpendicular to the plane defined by the leaf 129. Outboard of the cavity 139, an upper prong-receiving channel 144 and a lower prong  
15 receiving channel 145 are positioned, when the temple piece is properly oriented, to receive the prongs 133 and 134 respectively. Channels 144 and 145 are defined in part by upper flexible wall 147 and lower flexible wall 149. Each of the flexible walls 147 and 149 has at its free end a downwardly extending rib 150, sized and positioned to snap into the  
20 recesses 136.

The temple piece 124 can be mounted on the central prong 130 by turning it at right angles to its normal position, and slipping the Tee head 131 through the slot 132 into the central cavity 139. The temple piece 124 can then be oriented in its proper position as shown in Figures 9 through  
25 12, and pushed toward the frame 123. The ribs 150 will be cammed outwardly by the chamfers 137, to permit them to ride over a flat surface of the prongs, until the ribs snap into the recesses 136. To rotate the temple pieces through 180°, is only necessary to pull the temple piece until the ribs 150 are cammed out of the recesses 136 and the temple pieces brought to  
30 the position shown in Figure 11, when it can be turned and pushed back

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into place. As with most of the rest of the eyeglasses described, the construction of the eyeglasses of this embodiment can be modified to accommodate three or four degrees of rotation.

The ear piece of the temple can be made as shown in either Figure 2  
5 or Figure 4, for example, to be properly oriented.

Referring to Figures 13-19, for yet another embodiment of this invention, eyeglasses 161 have a hinge 162, which can be similar to the hinges in the embodiments described heretofore. A hinge block 164 in this embodiment has two cavities, a first cavity 166 and a second cavity 170.  
10 The first cavity is defined by an end wall 167 contiguous the hinge, a side wall 168, an intermediate wall 169, a top wall 171, a bottom wall 172, and a plate 190. The second cavity 170 shares the intermediate wall, side wall 168, top and bottom walls 171 and 172, and plate 190. Ribs 173 depend from and extend along a free edge of the top and bottom walls 171 and 172,  
15 forming a restricted mouth of the second cavity. The intermediate wall has in it a shaft passage 174, through which a central shaft 184 of a temple piece 175 extends. In this case, the shaft 184 is in the form of a bolt with a head 185 and a threaded shaft that screws into an internally threaded hole in the temple piece 175, as shown in figure 13.

20 The temple piece 175 in this embodiment is four sided. It has a head end 177 with a neck 179 and shoulders 180. The head end 177 is slotted to define four flexible fingers 178, spaced from and surrounding the central shaft 184, as shown in Figure 13. The neck 179 defines top grooves or seats 181, bottom grooves or seats 182 and side grooves or seats 183.  
25 The grooves are shaped and sized complementarily to the ribs 173. The head 177 is square in front elevation, and the second cavity is shaped and proportioned complementarily to the head.

The shaft 184 has a spring 187 mounted around the shaft, caged between the head 185 and a surface of the intermediate wall 169.

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In assembling the temple piece to the hinge block of this embodiment, the hinge block is made as it appears in Figure 13. The temple piece is simply installed from the open side as shown, and the plate 190 is bonded to the surfaces of the end, top, bottom and intermediate  
5 walls.

The temple piece 175 can be pulled from the second cavity 170 by virtue of the flexing of the fingers 178, against the bias of the spring 187, until the head has cleared the mouth of the cavity. The temple piece can then be rotated through any desired increment of 90°, and snapped back  
10 into the cavity 170.

It can be seen that by changing the configuration of the temple piece and cavity 170, other configurations, either thinly rectangular for a two sided display, triangular, for a three sided display, or otherwise polygonal can be used. The spring 187 can be omitted.

15 Referring to Figures 20 and 21 for yet another embodiment of this invention, eyeglasses 201 have a lense-holding frame 202, a hinge 205 and a hinge block 204 connected to a leaf of the hinge 205. The hinge block of 204 has a passage 207 extending from one end of the block to the other. The passage 207 has an open end 208 at the end of the block contiguous the  
20 frame 202 and the temple piece is in the position shown in Figure 21, and a more restricted opening 209 at its other end, has an annular shoulder 210. An outer surface 211 of the hinge block has in it dimples 212, arranged symmetrically about the opening 209. In the illustrative embodiment shown, a temple piece 225, with a threaded bolt hole 224 has on a surface  
25 facing the outer surface 211, a series of projections 213 shaped and positioned to complementary to the dimples 212. A bolt 220, with a head 221 and a shank 222 threaded through at least the lower third of the shank has a helical spring 227 mounted on it between the head 221 and the shoulder 210, and is screwed into the threaded hold 224 to the degree of  
30 compression desired. If it is desired, for example, to preclude the rotation

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of the temple piece 225 it can be screwed down until the spring is compressed tightly against the shoulder 210. Ordinarily, the compression of the spring 227 is just enough to prevent accidental rotation of the temple piece. It can be seen that any number of dimples 212 can be provided, and  
5 one or more projections 213, which would permit a multiplicity of positions of the temple piece, if that were desired. In the embodiment shown, the temple piece 225 is square in cross section and the number oath of the dimples of the projections is four. This embodiment is the simplest of the constructions, and is readily manufactured.

10 Numerous variations in the construction of the eyeglass construction of this invention, within the scope of the appended claims, will occur to those skilled in the art in the light of the foregoing disclosure. In all of the embodiments, the rotatable segments of the temple pieces are indicia-carrying members. The indicia can be different materials, such as plastics,  
15 metals or wood, colors, shapes, graphic images, photographs, logos, trademarks, cartoons, or any other decorative feature, uniquely different on two or more surfaces. The temple pieces need not be retractable a substantial distance, particularly in the embodiments shown in Figures 2 ,4, and 21, where one or more spring loaded detents can be used, set into either  
20 the hinge block or the rotatable temple piece, in the case of the embodiment shown in Figure 2, or the hinge block or eyepiece or both, or the rotatable temple piece, in the case of the embodiment shown in Figure 4, in either case, with complementary dimples in the other member or members. Other detent means can be used, such as leaf springs or even  
25 resilient bumps made as part of the rotatable temple piece or hinge block. or ear piece as the case may be. If a head-engaging disc or the like is used, symmetrical with respect to the long axis of the temple piece, instead of the hook-shaped ear piece illustrated in connection with the illustrative embodiments, no provision for relative rotation of the head-engaging part

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with respect to the temple piece need be made. These are merely illustrative.

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1. In an eyeglass having a lens-carrying frame and temple pieces, said temple pieces being mounted at one end to said frame and having a head-engaging part at another end, the improvement comprising indicia-carrying means along at least one of said temple pieces intermediate said frame and said head-engaging part, said indicia-carrying means having discrete areas bearing different indicia, said indicia-carrying means being rotatable with respect to said frame, for displaying selectively one of a plurality of said indicia.
2. The improvement of claim 1 wherein said indicia carrying means is integral with a portion of said temple piece.
3. The improvement of claim 1 wherein said temple piece includes a rod fixed at one end in a block hinged to said frame, said indicia carrying means is a segment rotatably mounted on said rod and said rotatable segment has means for holding said indicia carrying means in a selected orientation against rotation.
4. The improvement of claim 1 wherein the indicia are colors.
5. The improvement of claim 1 wherein the indicia are different materials.
6. The improvement of claim 1 wherein the indicia are different graphic images.
7. The improvement of claim 1 wherein the indicia are different shapes.
8. The improvement of claim 1 wherein said indicia carrying means comprise a plurality of independently rotatable segments.
9. The improvement of claim 9 wherein said indicia carrying means are rotatably mounted on a rod anchored in a temple block hinged to said frame, and each of said segments carries means for holding said segment in a selected orientation with respect to a contiguous segment.
10. The improvement of claim 1 including a hinge between said temple piece and said frame, said hinge having first knuckle means mounted to

said frame and second knuckle means having a leaf with a central prong member with a head, and outer prong members spaced from said central prong member and parallel therewith, said temple piece having a central, central prong-receiving cavity and upper and lower outer prong-receiving cavities, and flexible walls defining a surface of said upper and lower prong-receiving cavities, said outer prong members each having a recess and said flexible walls having an inwardly extending rib adapted to fit into said recess.

11. In an eyeglass having a lens-carrying frame and temple pieces, said temple pieces being mounted at one end to said frame and having a head-engaging part at another end, the improvement comprising said temple pieces having a plurality of lengthwise extending surfaces angularly related to one another and carrying different indicia intermediate said frame and said head-engaging part, said temple pieces being rotatably mounted to and with respect to said frame, for displaying selectively said indicia.

12. In an eyeglass having a lens-carrying frame and temple pieces, said temple pieces being mounted at one end to said frame and having a head-engaging part at another end, the improvement comprising said temple pieces having a plurality of lengthwise extending surfaces angularly related to one another and carrying different indicia intermediate said frame and said head-engaging part, said temple pieces being rotatably mounted to and with respect to said frame, for displaying selectively said indicia, and means positively restraining said temple pieces against accidental rotation.

13. An eyeglass having a lens-carrying frame, a hinge block hinged to said frame and a temple piece rotatably mounted at one end to said hinge block and having a head-engaging part at another end, said hinge block having a passage with a shoulder around a restricted portion of said passage, a bolt with a head and a shank at least a portion of which is threaded and a helical spring mounted on said shank and caged between said head and said shoulder, said shank being threaded into an internally

threaded hole in said temple piece whereby said temple piece is mounted to said hinge block, complementary means on said temple piece and said hinge block for holding said temple piece in selected orientation with respect to said hinge block and indicia along surfaces of said temple piece intermediate said frame and said head-engaging part, said indicia being displayed selectively with different orientations of said temple piece with respect to said hinge block.

14. An eyeglass having a lens-carrying frame, a hinge block hinged to said frame and a temple piece rotatably mounted at one end to said hinge block and having a head-engaging part at another end, one of said temple piece and said hinge block having a passage with a shoulder around a restricted portion of said passage, mounting means having a head and a shank, said head being positioned within said passage and said shank extending through said restricted portion and being mounted in the one of said hinge block and said temple piece in which the head is not mounted, whereby said temple piece is mounted to said hinge block, said head being spaced from said shoulder a distance to permit retraction of said temple piece from said hinge block and its rotation about said shaft with respect to said hinge block, complementary means on said temple piece and said hinge block for holding said temple piece in selected orientation with respect to said hinge block and indicia along surfaces of said temple piece intermediate said frame and said head-engaging part, said indicia being displayed selectively with different orientations of said temple piece with respect to said hinge block.



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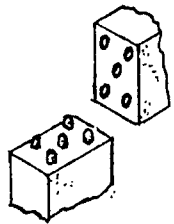
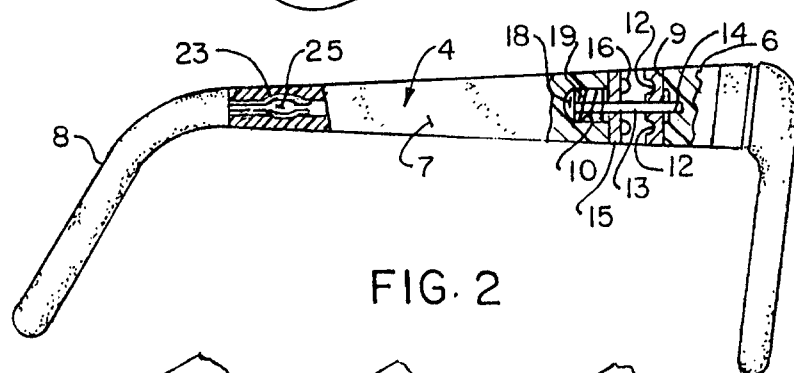
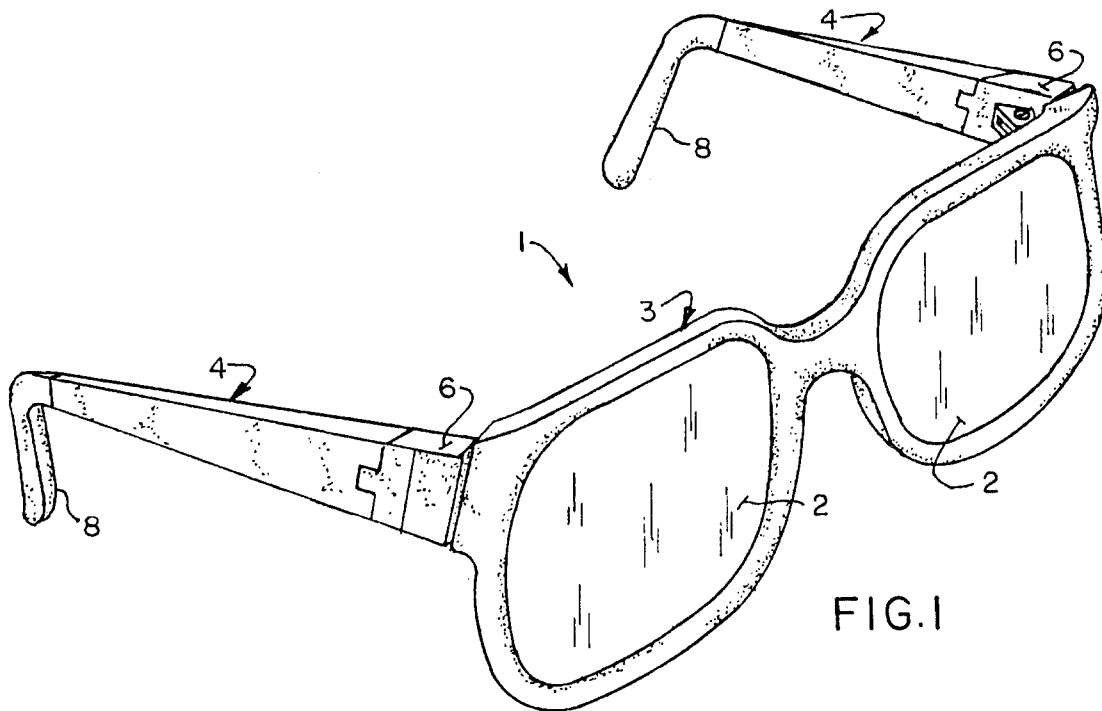


FIG. 3A

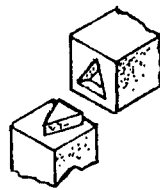


FIG. 3B

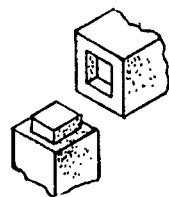


FIG. 3C

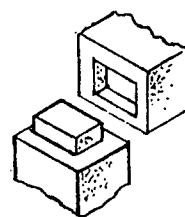


FIG. 3D

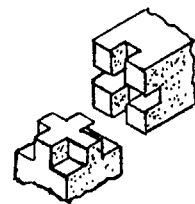


FIG. 3E

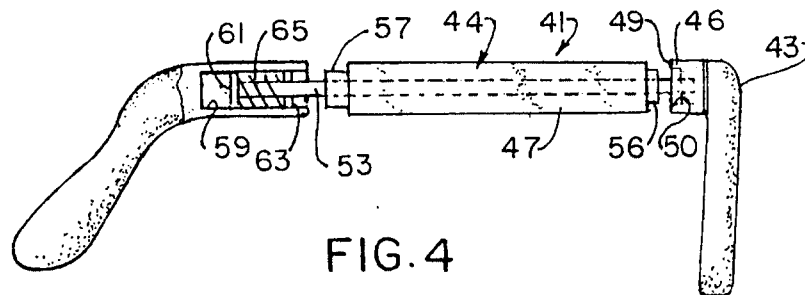


FIG. 4

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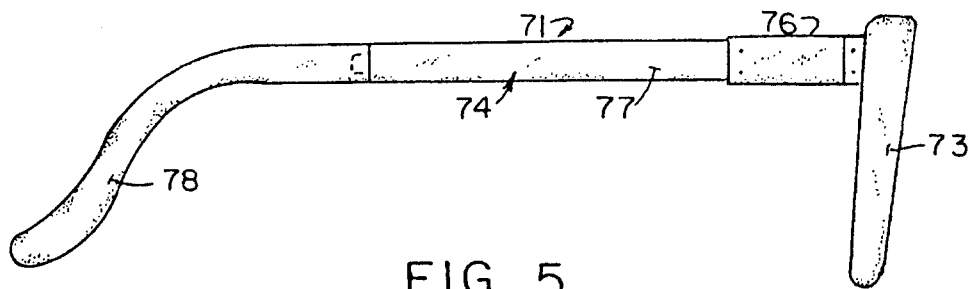


FIG. 5

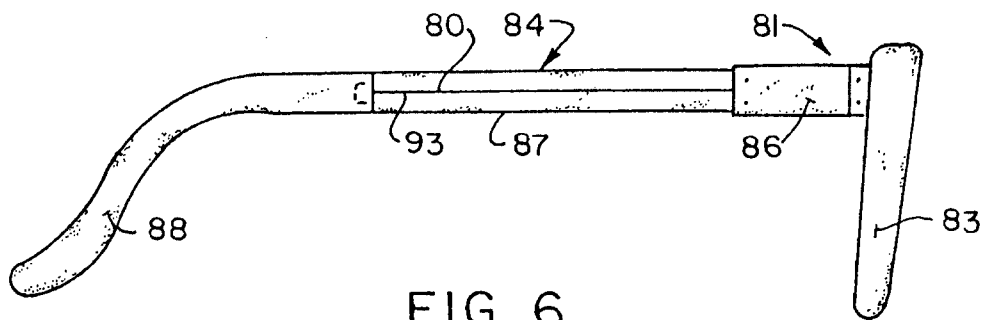


FIG. 6



FIG. 7A



FIG. 7B



FIG. 7C



FIG. 7D



FIG. 7E

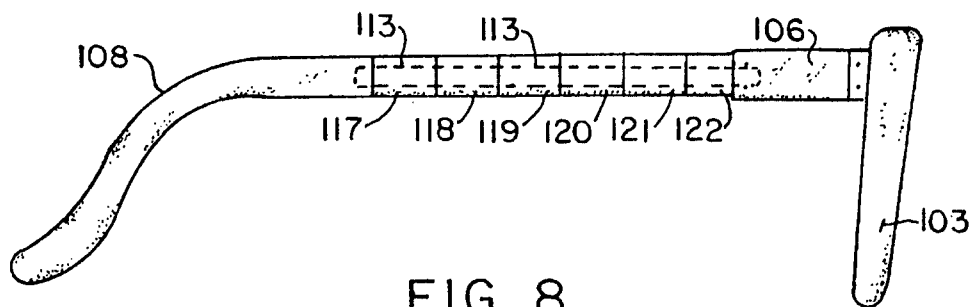


FIG. 8

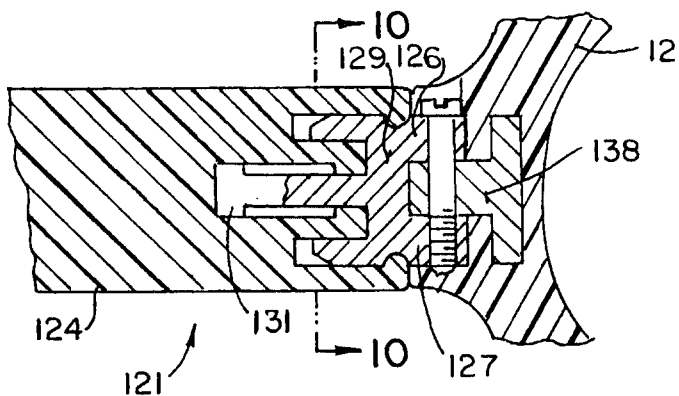


FIG. 9

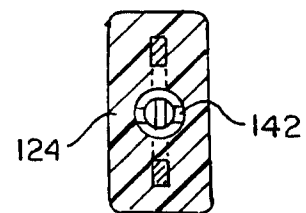


FIG. 10

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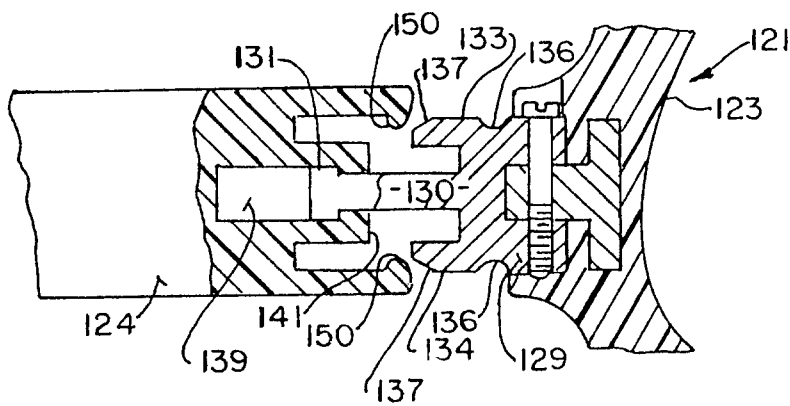


FIG. 11

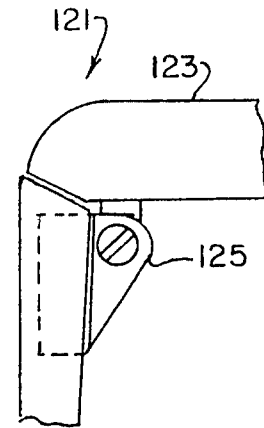


FIG. 12

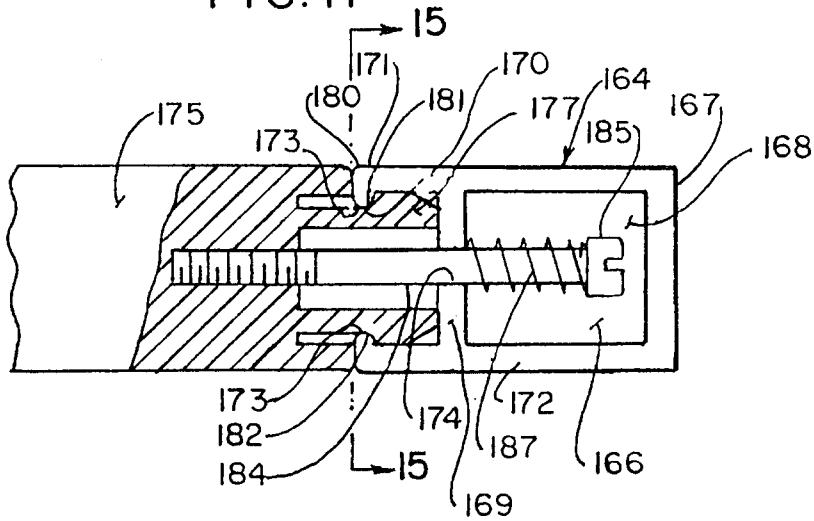


FIG. 13

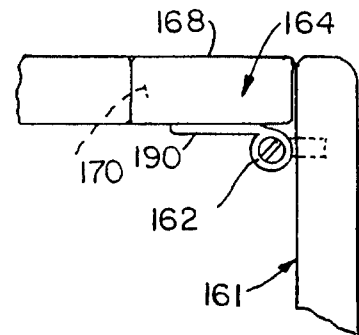
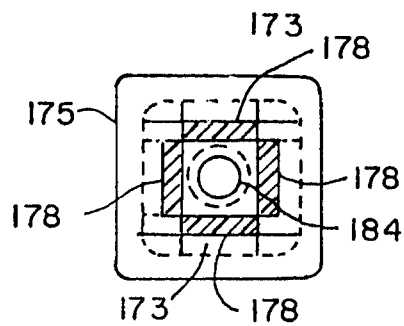


FIG. 14



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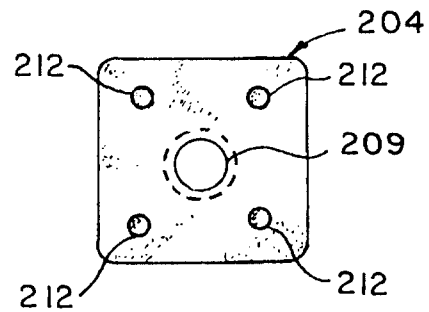


FIG. 20

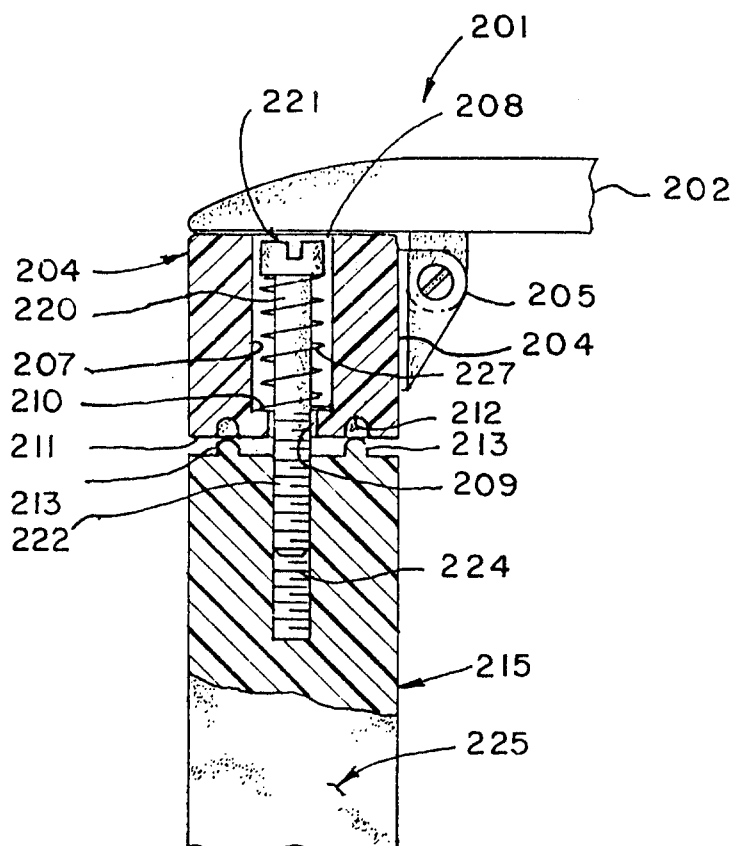


FIG. 21

