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(12) **United States Design Patent**
Miyairi et al.

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(54) **LIGHT EMITTING DIODE LENS**

(75) Inventors: **Hiroshi Miyairi**, Yokohama (JP); **Kazunori Watanabe**, Yokohama (JP)

(73) Assignee: **Nichia Corporation**, Anan-shi (JP)

(**) Term: **14 Years**

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Mar. 2, 2005 (JP) 2005-6034
Mar. 2, 2005 (JP) 2005-6035

(51) **LOC (8) Cl.** **26-99**
(52) **U.S. Cl.** **D26/122**
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,483,366 A * 12/1969 Wince 362/333
3,737,654 A * 6/1973 Hawley 362/311
D259,738 S * 6/1981 Boschetti D24/210
D345,316 S * 3/1994 Green et al. D10/114
D356,382 S * 3/1995 Jaksich D26/75
D374,737 S * 10/1996 Can D26/80
D401,000 S * 11/1998 Herst D26/76
5,848,837 A * 12/1998 Gustafson 362/235
D414,580 S * 9/1999 Herst D26/76
6,193,394 B1 * 2/2001 Herst et al. 362/260
6,676,284 B1 * 1/2004 Wynne Willson 362/555
D499,976 S * 12/2004 Neufeglise et al. D10/114

* cited by examiner

Primary Examiner—Freda S. Nunn
Assistant Examiner—Kevin K Rudzinski
(74) *Attorney, Agent, or Firm*—Global IP Counselors, LLP

(57) **CLAIM**

The ornamental design for a light emitting diode lens, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a light emitting diode lens in accordance with the first embodiment of our new design;

FIG. **2** is a top view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. **3** is a bottom view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. **4** is a front view of the light emitting diode lens in accordance with the first embodiment of our new design;

FIG. **5** is a rear view of the light emitting diode lens in accordance with the first embodiment of our new design;

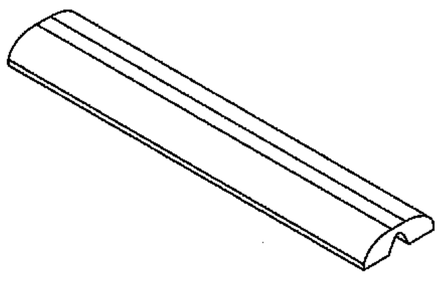
FIG. **6** is a left side view of the light emitting diode lens in accordance with the first embodiment of our new design;

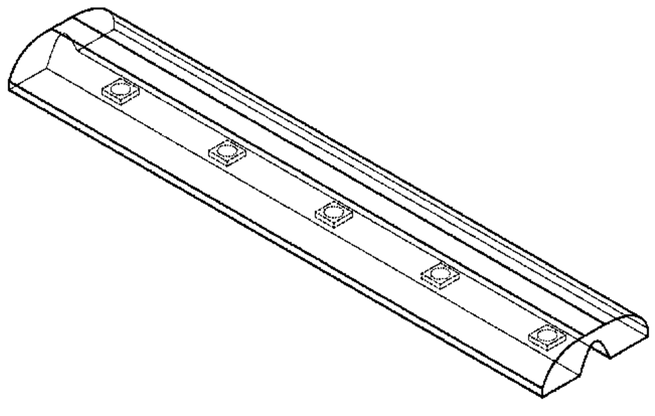
FIG. **7** is a right side view of the light emitting diode lens in accordance with the first embodiment of our new design;

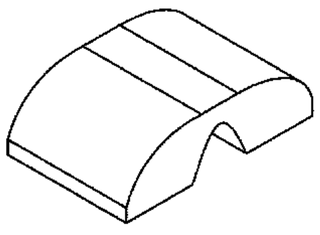
FIG. **8** is a perspective view of the light emitting diode lens in accordance with a second embodiment of our new design, with the showing of inner lines to indicate that the light emitting diode lens of our new design is translucent, the only difference between the second embodiment and the first embodiment being that inner components such as light emitting diodes coupled to the light emitting diode lens are translucently visible in the second embodiment;

FIG. **9** is a perspective view of a light emitting diode lens in accordance with a third embodiment of our new design;

FIG. **10** is a top view of the light emitting diode lens in accordance with the third embodiment of our new design;







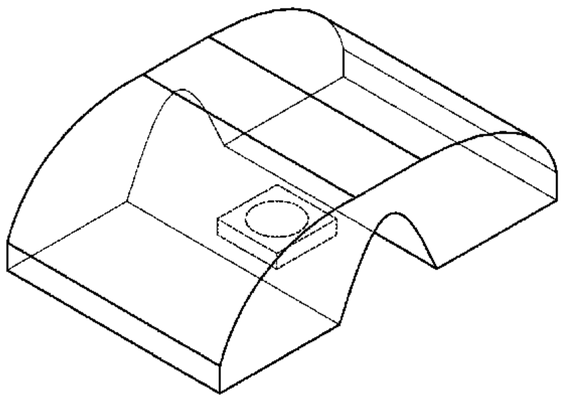


FIG. **11** is a bottom view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. **12** is a front view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. **13** is a rear view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. **14** is a left side view of the light emitting diode lens in accordance with the third embodiment of our new design;

FIG. **15** is a right side view of the light emitting diode lens in accordance with the third embodiment of our new design; and,

FIG. **16** is a perspective view of the light emitting diode lens in accordance with a fourth embodiment of our new design, with the showing of inner lines to indicate that the light emitting diode lens of our new design is translucent, the only difference between the fourth embodiment and the third embodiment being that an inner component such as a light emitting diode coupled to the light emitting diode lens is translucently visible in the fourth embodiment.

The broken line showing of environment in the Figures is for illustrative purposes only and forms no part of the claimed design. Particularly, the number of the light emitting diodes to be disposed underneath the light emitting diode lens is not limited to those shown in the Figures.

1 Claim, 8 Drawing Sheets

Figure 1

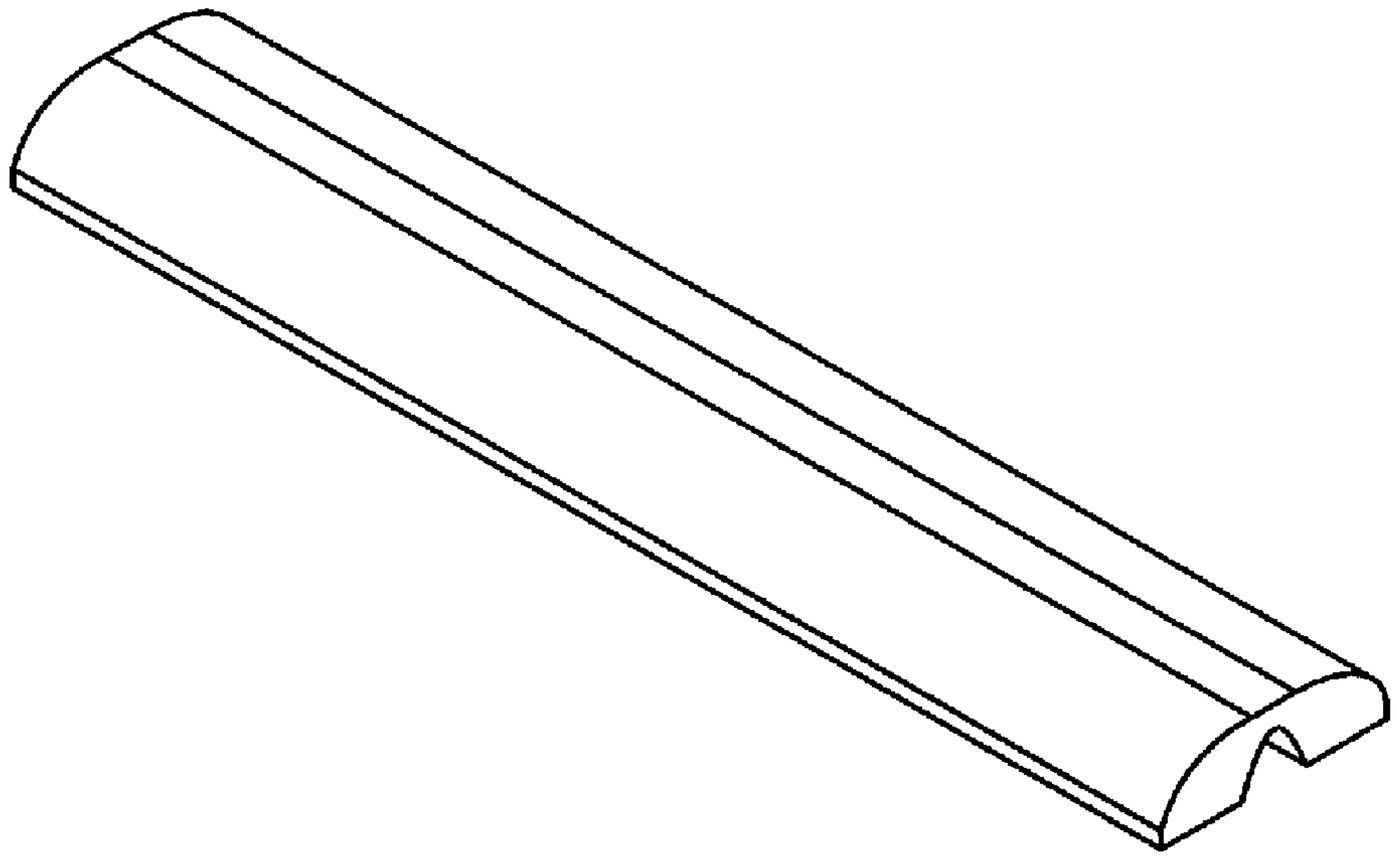


Figure 2

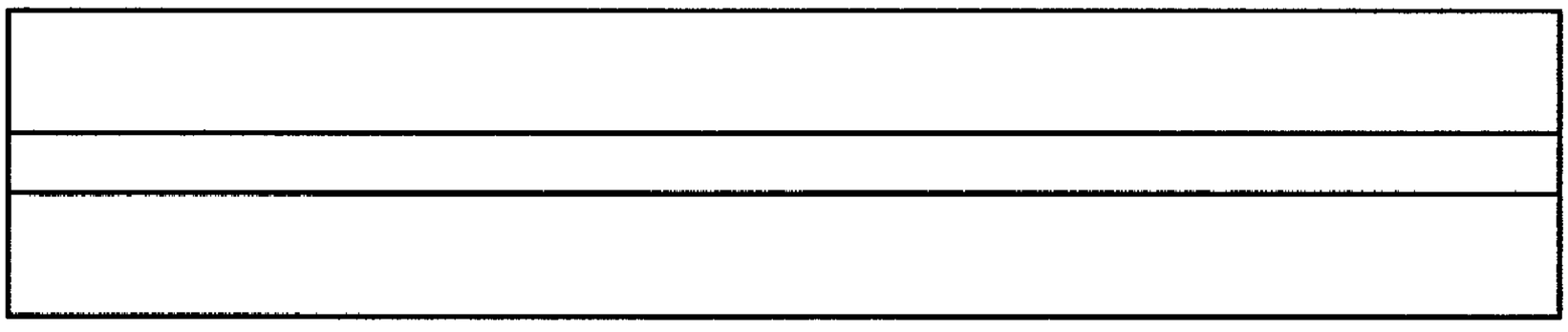


Figure 3

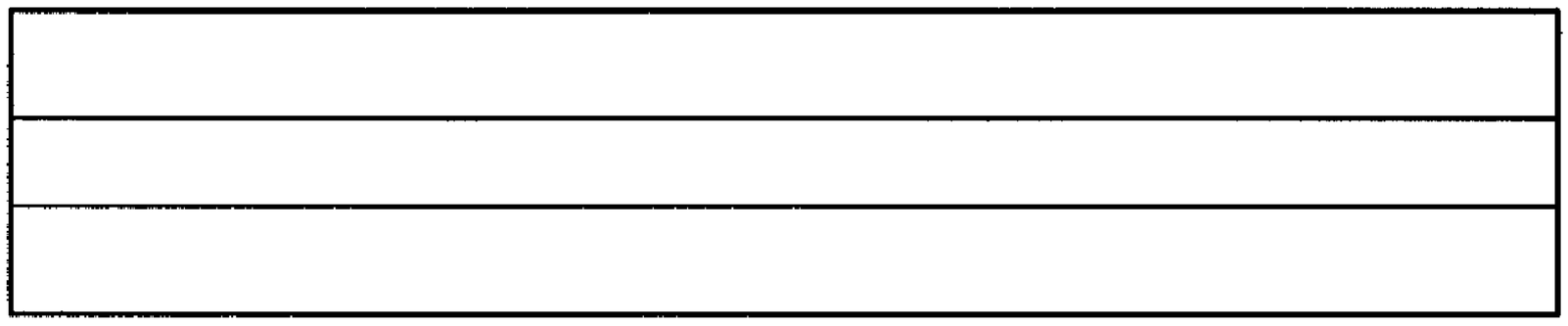


Figure 4

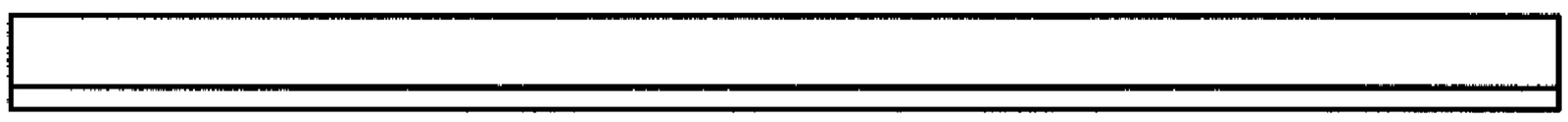


Figure 5

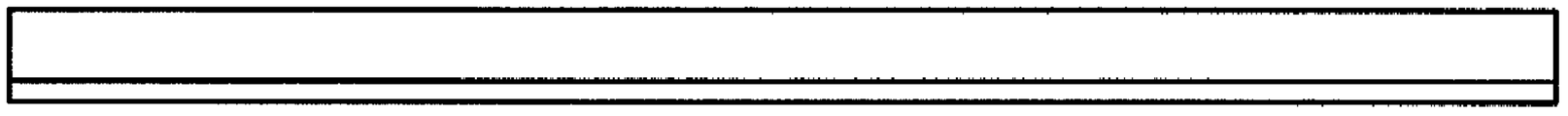


Figure 6

Figure 7

Figure 8

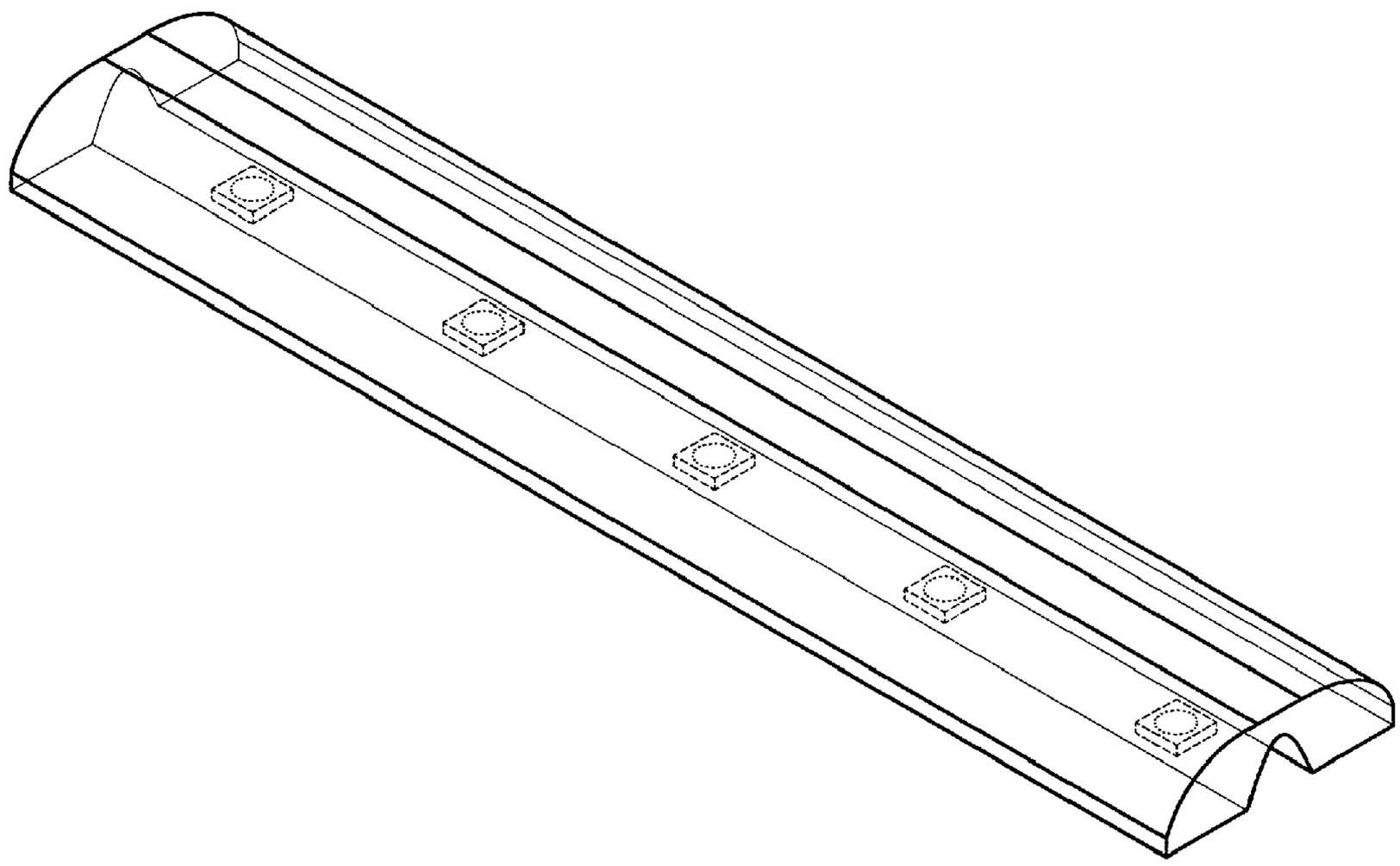


Figure 9

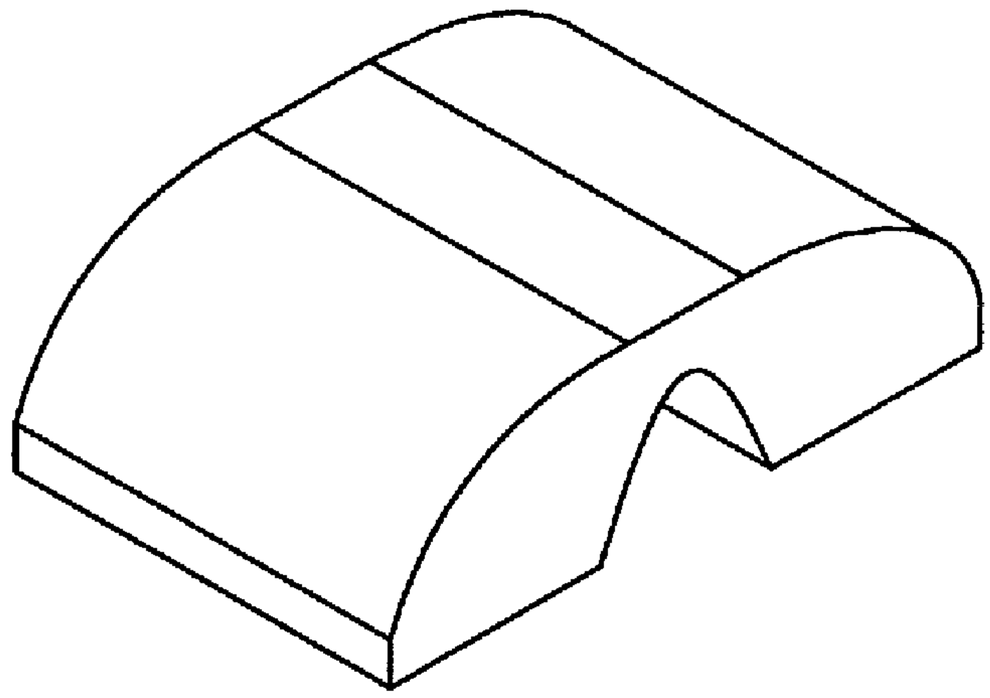


Figure 10

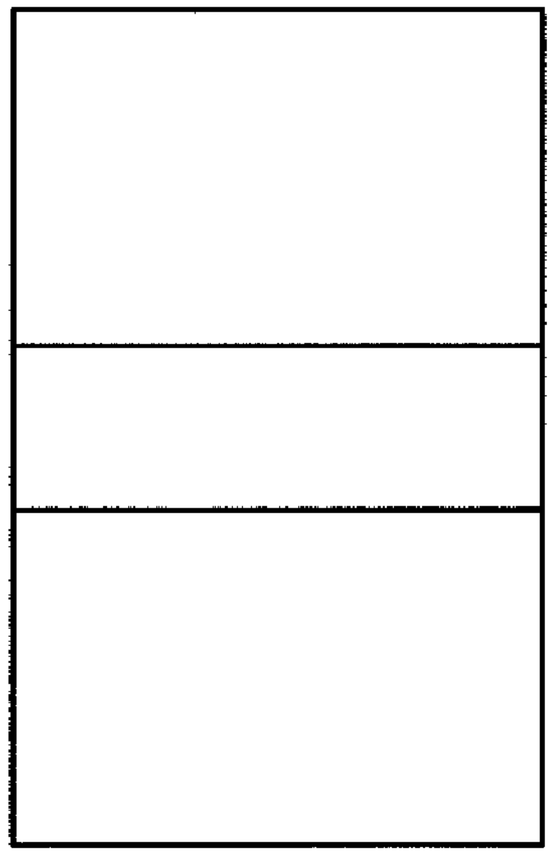


Figure 11

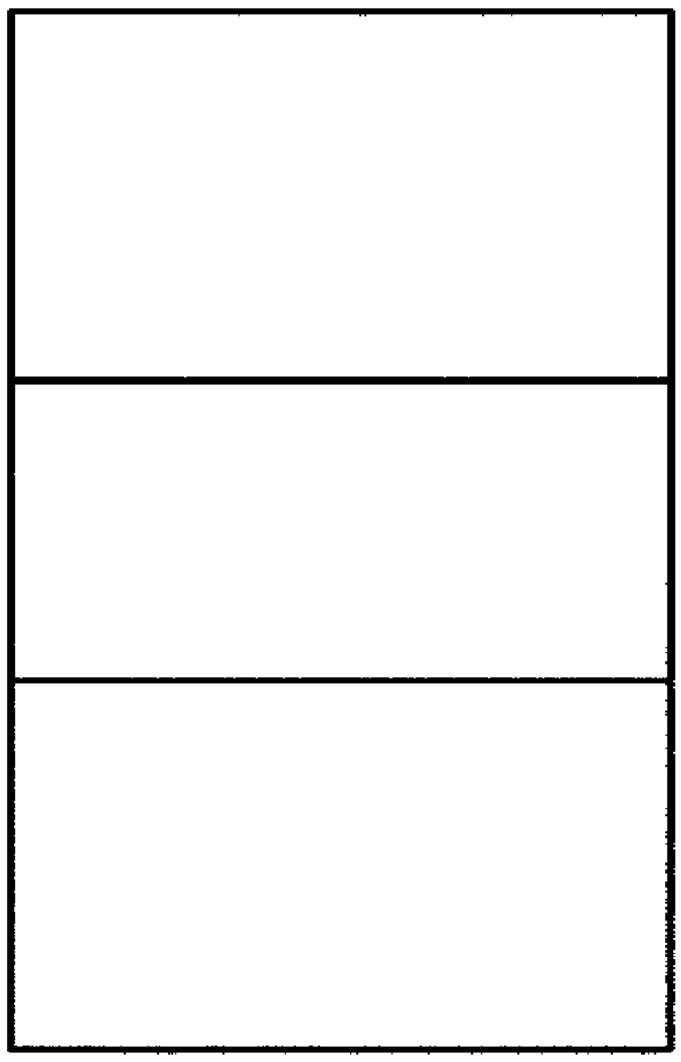


Figure 12

Figure 13

Figure 14

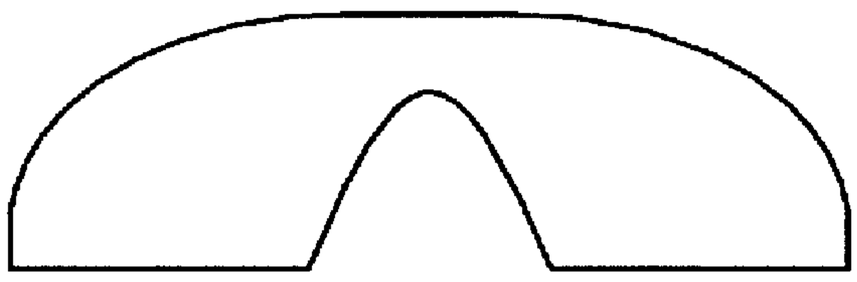


Figure 15

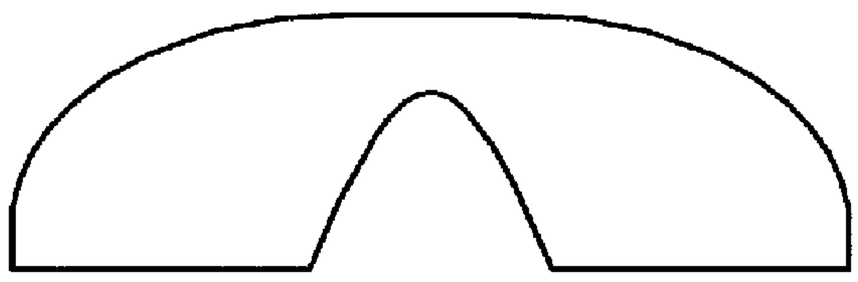


Figure 16