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(12) United States Design Patent

Inoue

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(54) **LIGHT EMITTING DIODE**

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(73) Assignee: **Rohm Co., Ltd.**, Kyoto (JP)

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

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(30) **Foreign Application Priority Data**

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Oct. 19, 2004 (JP) 2004-31755
Oct. 19, 2004 (JP) 2004-031756
Oct. 19, 2004 (JP) 2004-031757

(51) **LOC (8) Cl.** **13-03**
(52) **U.S. Cl.** **D13/180**
(58) **Field of Classification Search** D13/180; D26/2; 257/79, 80, 81, 82, 88, 89, 95, 98, 257/99, 100, 678, 680, 433, 434, 666; 313/483, 313/498, 500; 361/820; 362/235, 249, 555, 362/800; 372/45.01
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,843,280 A * 6/1989 Lumbard et al. 313/500
6,015,719 A * 1/2000 Kish et al. 438/29
6,120,600 A * 9/2000 Edmond et al. 117/89
6,404,125 B1 * 6/2002 Garbuzov et al. 313/499
D476,961 S * 7/2003 Horiuchi et al. D13/182
6,730,939 B2 * 5/2004 Eisert et al. 257/98
6,740,906 B2 * 5/2004 Slater et al. 257/99
6,774,406 B2 * 8/2004 Isoda 257/99
6,853,010 B2 * 2/2005 Slater et al. 257/98
6,956,241 B2 * 10/2005 Sugawara et al. 257/79
2002/0056848 A1 * 5/2002 Wirth 257/98
2002/0123164 A1 * 9/2002 Slater et al. 438/39
2003/0155580 A1 * 8/2003 Eisert et al. 257/98
2003/0173575 A1 * 9/2003 Eisert et al. 257/95
2004/0061440 A1 * 4/2004 Imai et al. 313/512
2004/0070338 A1 * 4/2004 Noguchi et al. 313/512
2005/0173721 A1 * 8/2005 Isoda 257/99
2005/0253157 A1 * 11/2005 Ohashi et al. 257/95

* cited by examiner

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(57) **CLAIM**

I claim the ornamental design for a light emitting diode, as shown.

DESCRIPTION

FIG. **1** is a front view of a light emitting diode showing a first embodiment of my new design, the rear view being identical to the front view;
FIG. **2** is a top plan view of the first embodiment;
FIG. **3** is a right side view of the first embodiment, the left side view being identical to the right side view;
FIG. **4** is a bottom view of the first embodiment;
FIG. **5** is a sectional view of the first embodiment taken along lines **5—5** in FIG. **2**;
FIG. **6** is a perspective view of the first embodiment;
FIG. **7** is a front view of a light emitting diode showing a second embodiment of my new design, the rear view being identical to the front view;
FIG. **8** is a top plan view of the second embodiment;
FIG. **9** is a right side view of the second embodiment, the left side view being identical to the right side view;
FIG. **10** is a bottom view of the second embodiment;
FIG. **11** is a sectional view of the second embodiment taken along lines **11—11** in FIG. **8**; and,
FIG. **12** is a perspective view of the second embodiment.

1 Claim, 4 Drawing Sheets

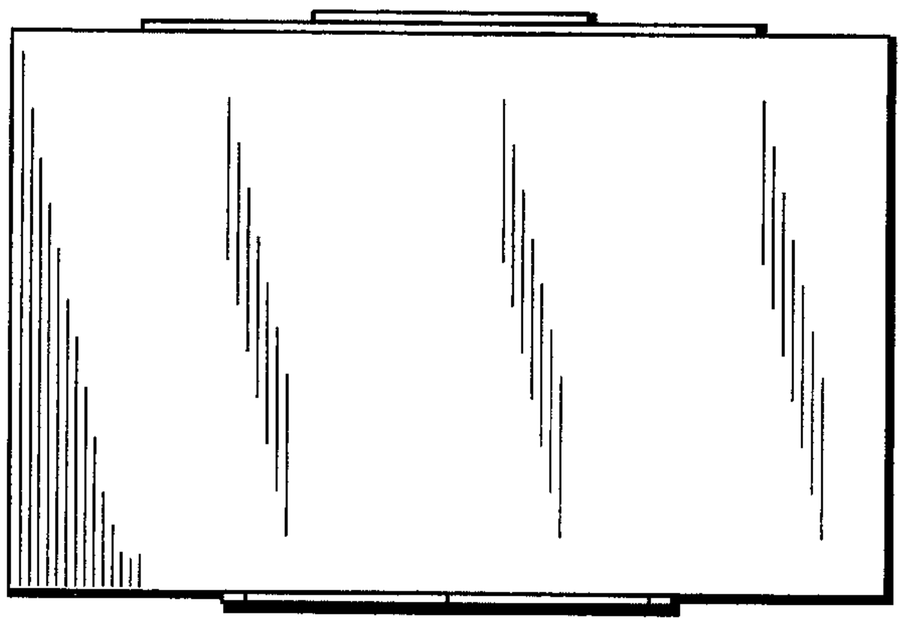

FIG. 1

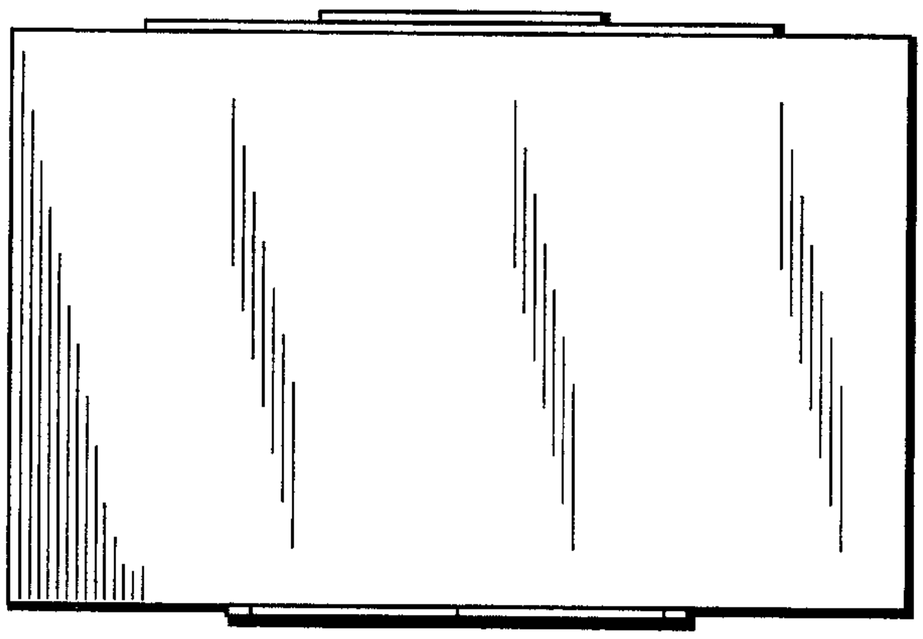

FIG. 2

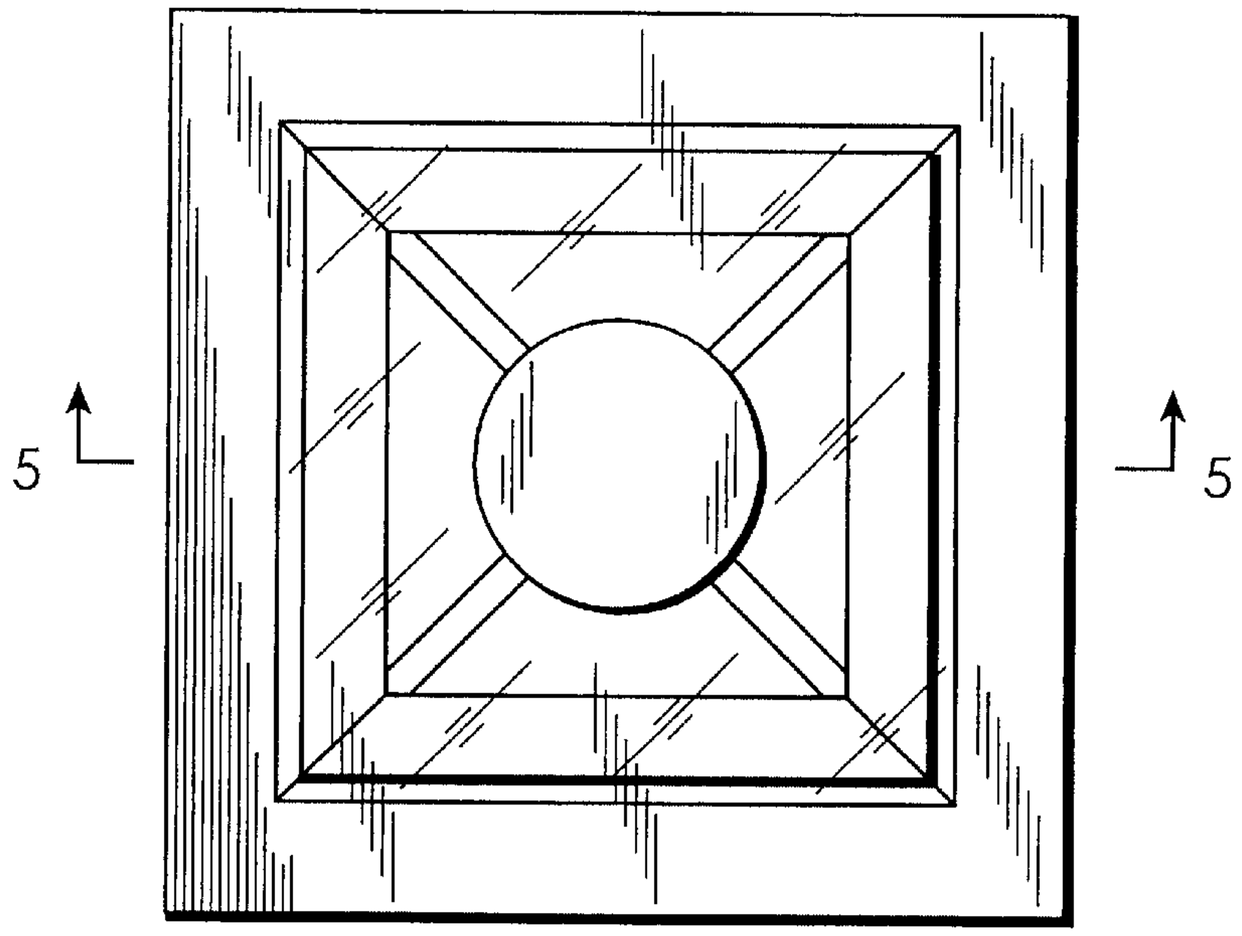

FIG. 3

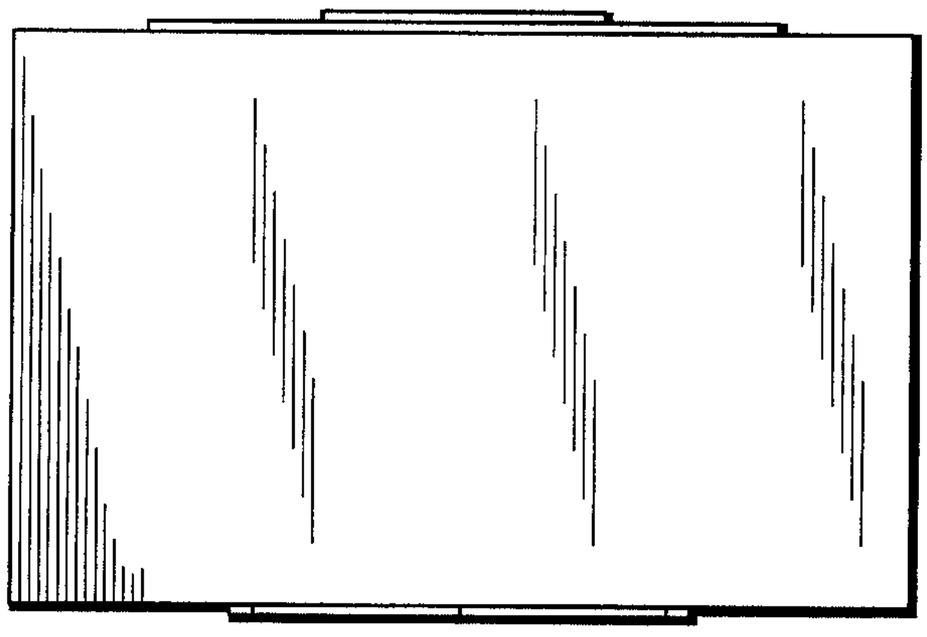

FIG. 4

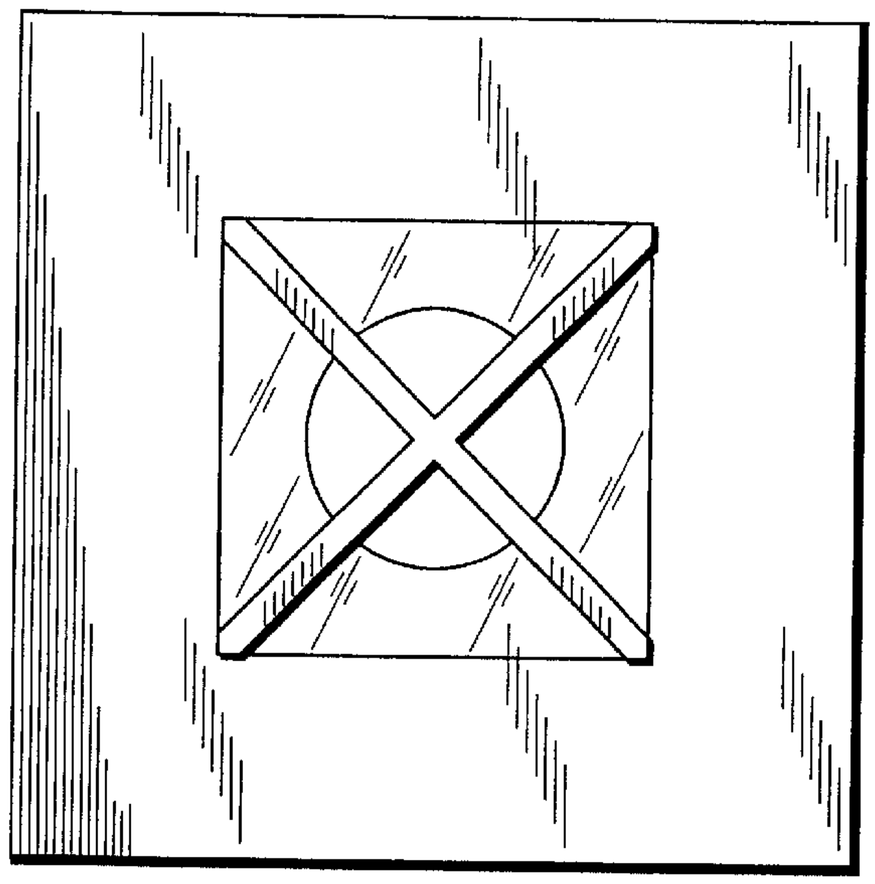

FIG. 5

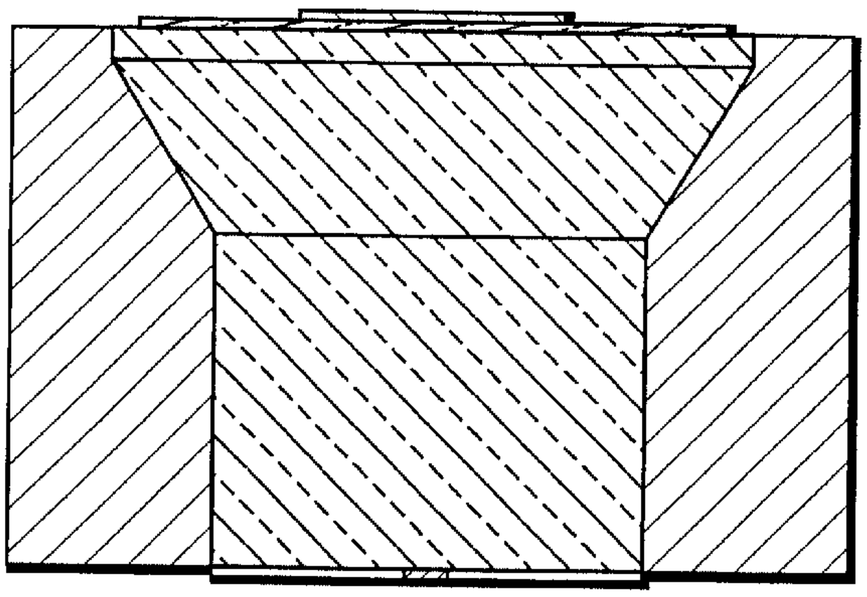

FIG. 6

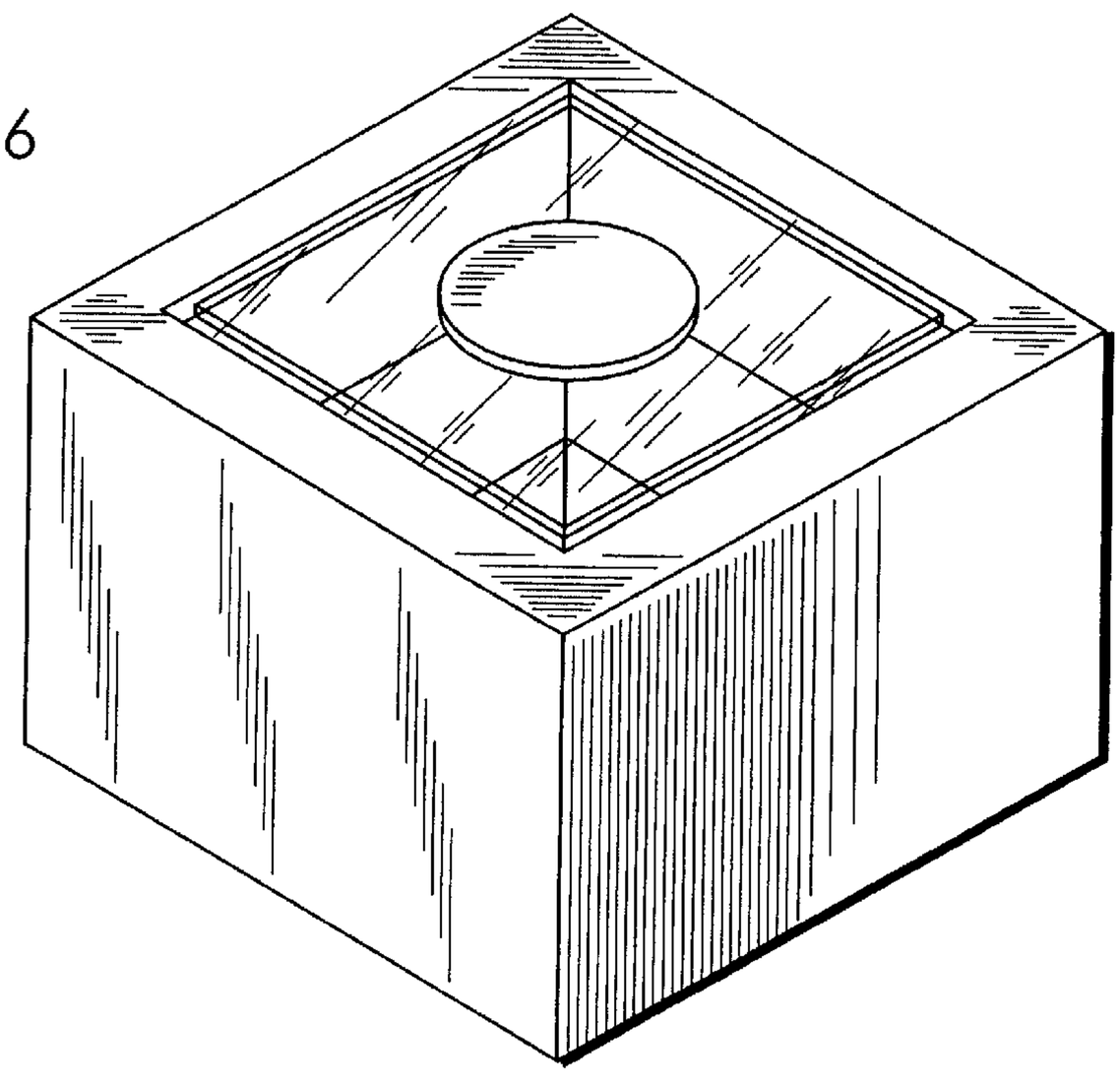

FIG. 7

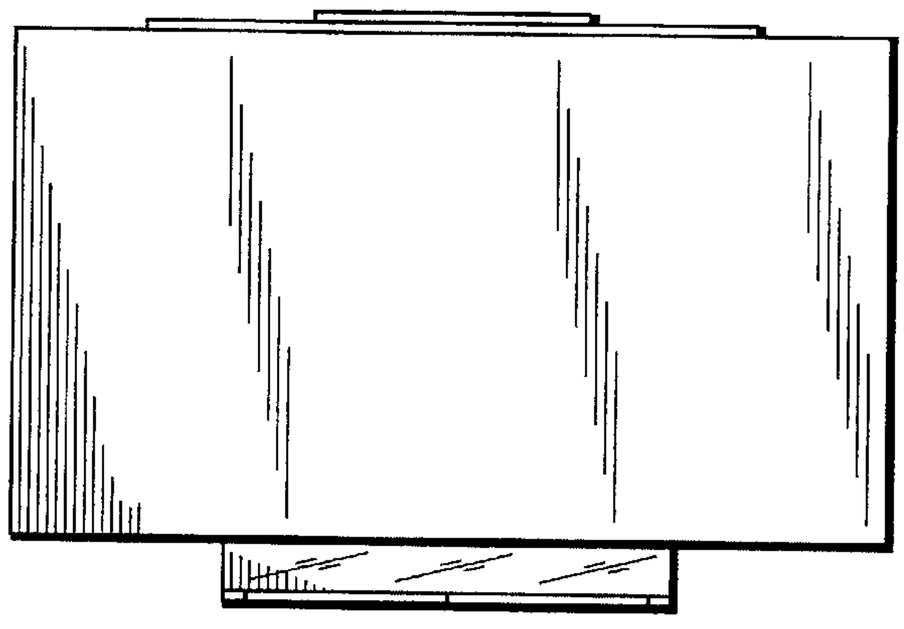

FIG. 8

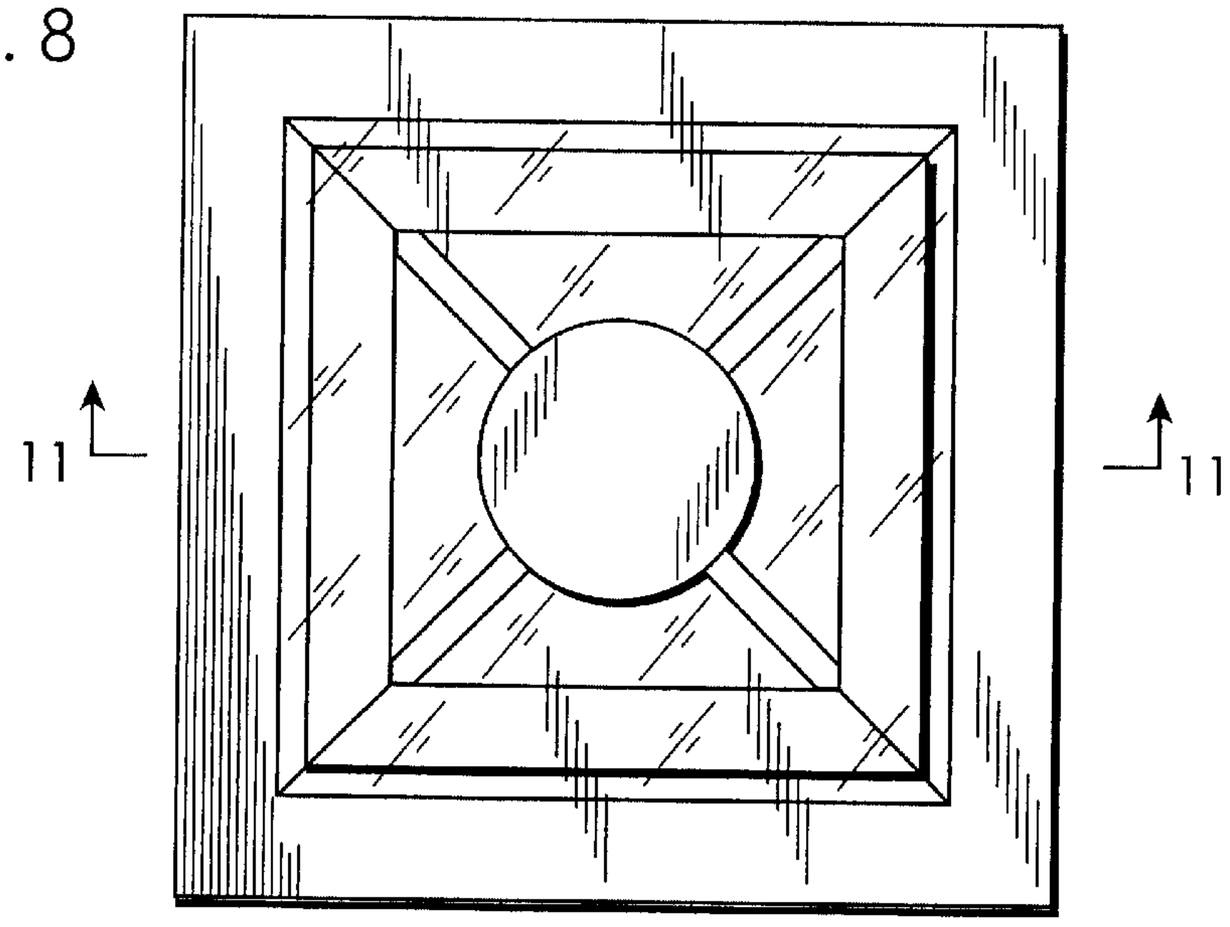

FIG. 9

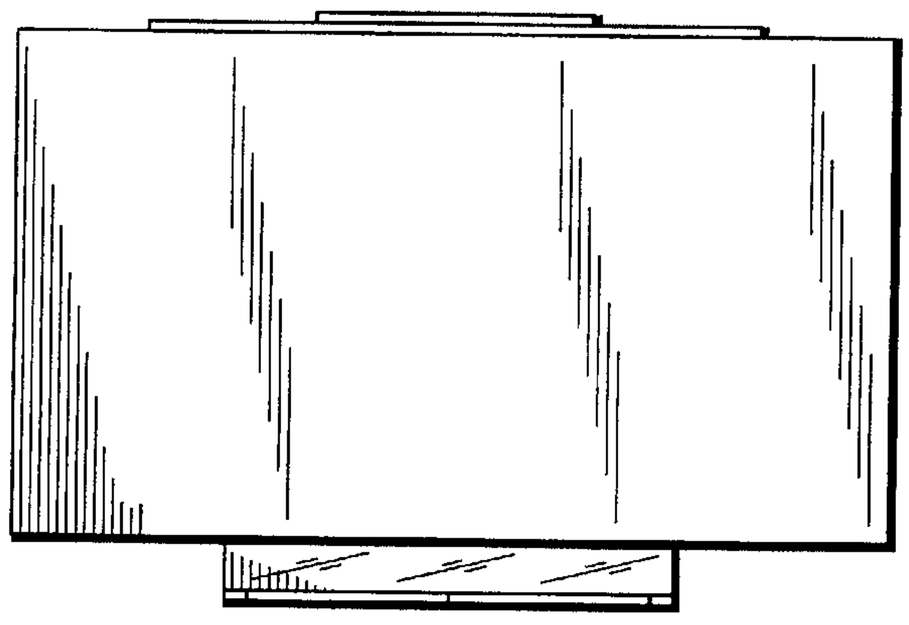

FIG. 10

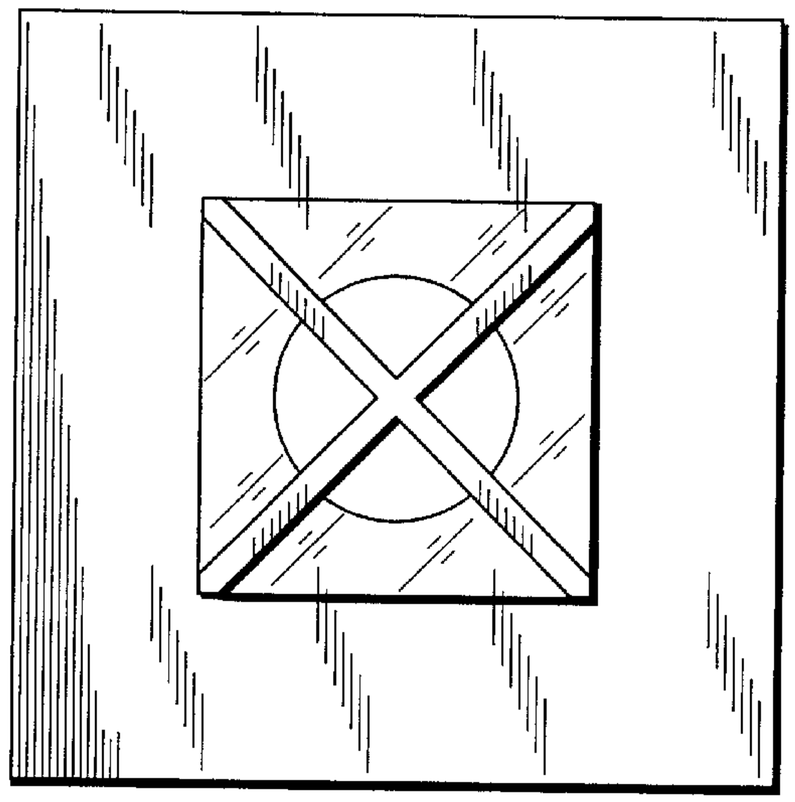

FIG. 11

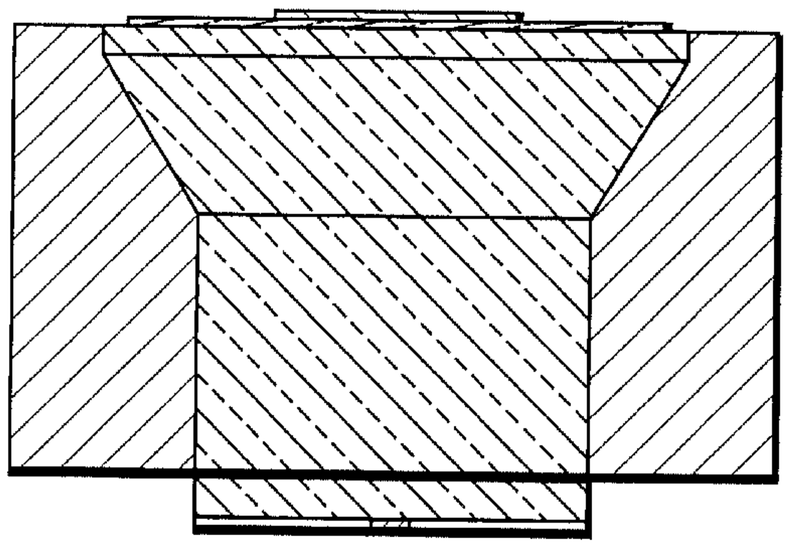

FIG. 12