



US00D515045S

(12) **United States Design Patent** (10) **Patent No.:** **US D515,045 S**  
**Suenaga** (45) **Date of Patent:** **\*\* Feb. 14, 2006**

- (54) **LIGHT EMITTING DIODE**
- (75) **Inventor:** **Ryoma Suenaga, Komatsushima (JP)**
- (73) **Assignee:** **Nichia Corporation, Anan (JP)**
- (\*\*) **Term:** **14 Years**
- (21) **Appl. No.:** **29/226,624**
- (22) **Filed:** **Mar. 31, 2005**

- D289,037 S 3/1987 Nishizawa et al.
- 5,266,817 A 11/1993 Lin
- RE36,614 E 3/2000 Lumbard et al.
- D432,095 S 10/2000 Seeger et al.
- D439,351 S 3/2001 Kiba et al.
- 6,608,334 B1 8/2003 Ishinaga
- D486,801 S 2/2004 Suenaga
- D488,137 S 4/2004 Kamada
- D491,899 S 6/2004 Yagi

**Related U.S. Application Data**

- (62) Division of application No. 29/215,719, filed on Oct. 25, 2004, now Pat. No. Des. 505,120, which is a division of application No. 29/196,801, filed on Jan. 7, 2004, now Pat. No. Des. 497,884, which is a division of application No. 29/169,617, filed on Oct. 24, 2002, now Pat. No. Des. 486,801.

(30) **Foreign Application Priority Data**

- Sep. 26, 2002 (JP) ..... 2002-026314
- Sep. 26, 2002 (JP) ..... 2002-026315

- (51) **LOC (8) Cl.** ..... **13-03**
- (52) **U.S. Cl.** ..... **D13/180**
- (58) **Field of Classification Search** ..... D13/180, D13/182; D10/104, 114; 257/76, 79, 88, 257/89, 93-99, 434, 676, 678, 687, 690, 257/698, 787; 313/498, 499, 500; 372/45; 361/760, 820, 226, 241, 249, 250, 307, 555, 361/800

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 3,855,606 A 12/1974 Schoberl
- 3,914,786 A 10/1975 Grossi
- 4,152,624 A 5/1979 Knaebel

**FOREIGN PATENT DOCUMENTS**

- JP D1046564 S 8/1999
- JP D1146343 S 7/2002
- JP D1146344 S 7/2002

*Primary Examiner*—Stella Reid  
*Assistant Examiner*—Selina Sikder  
(74) *Attorney, Agent, or Firm*—Smith Patent Office

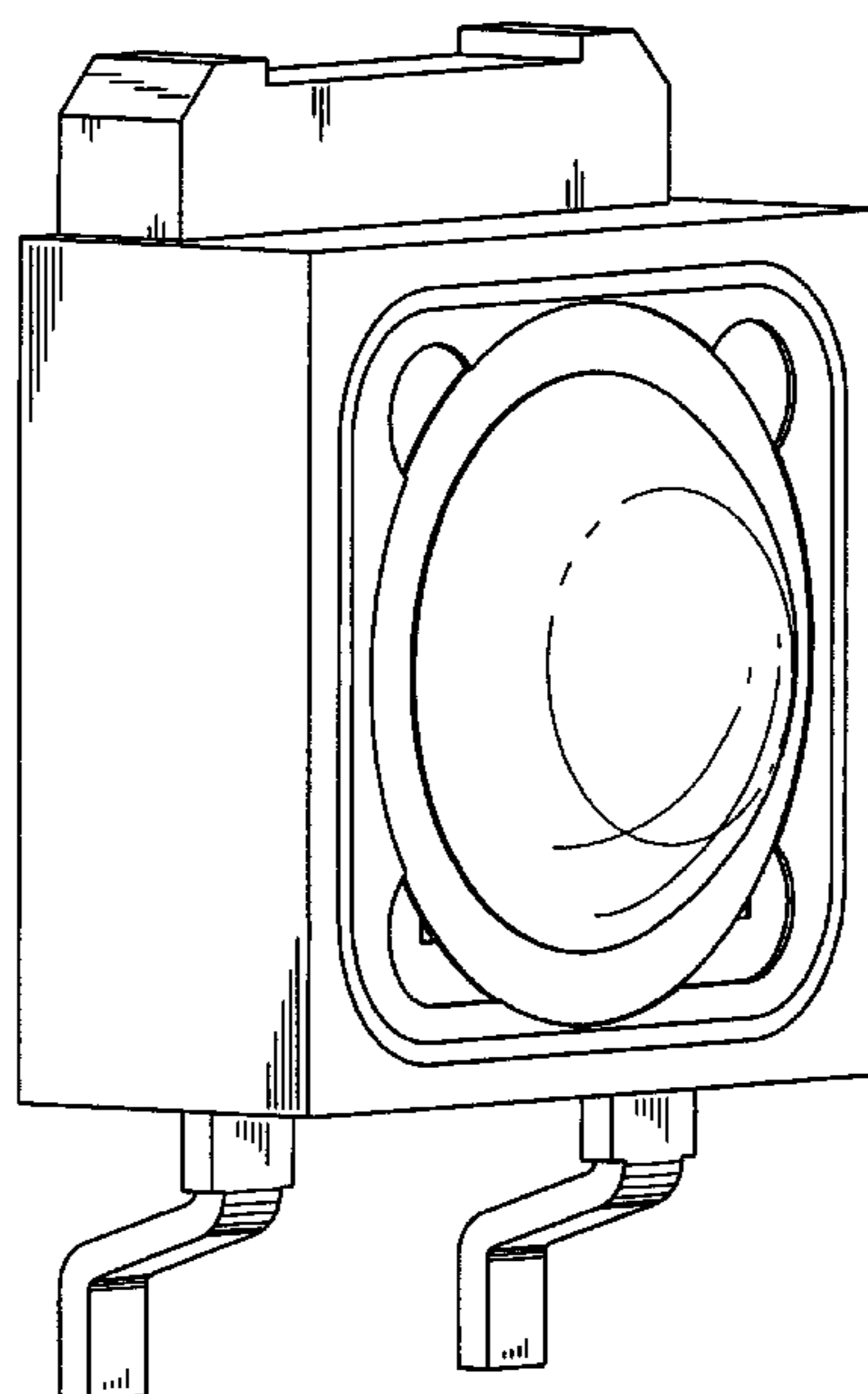
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a perspective view of a light emitting diode showing my new design;  
FIG. 2 is a plan view of the light emitting diode according to the embodiment of FIG. 1;  
FIG. 3 is a left view of the light emitting diode according to the embodiment of FIG. 1;  
FIG. 4 is a front elevational view of the light emitting diode according to the embodiment of FIG. 1;  
FIG. 5 is a right view of the light emitting diode according to the embodiment of FIG. 1;  
FIG. 6 is a rear view of the light emitting diode according to the embodiment of FIG. 1; and,  
FIG. 7 is a bottom plan view of the light emitting diode according to the embodiment of FIG. 1.

**1 Claim, 2 Drawing Sheets**



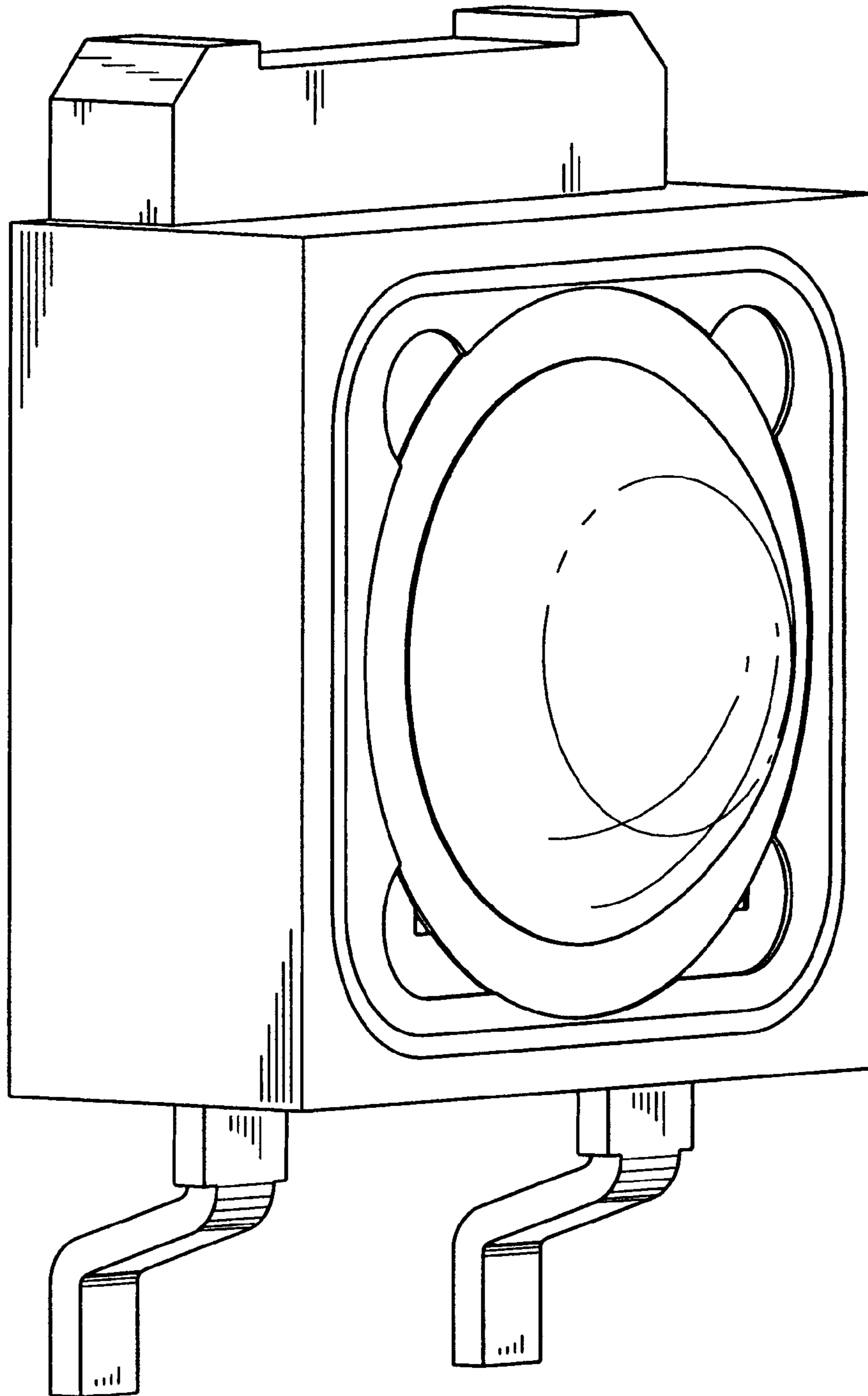


FIG. 1

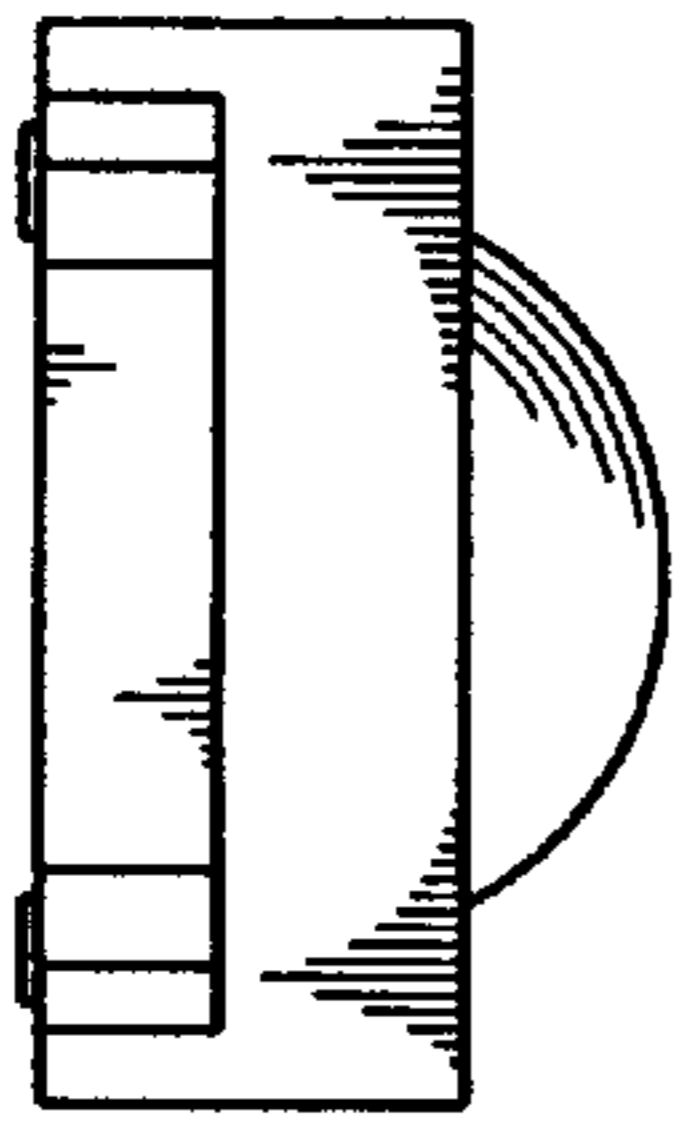


FIG. 2

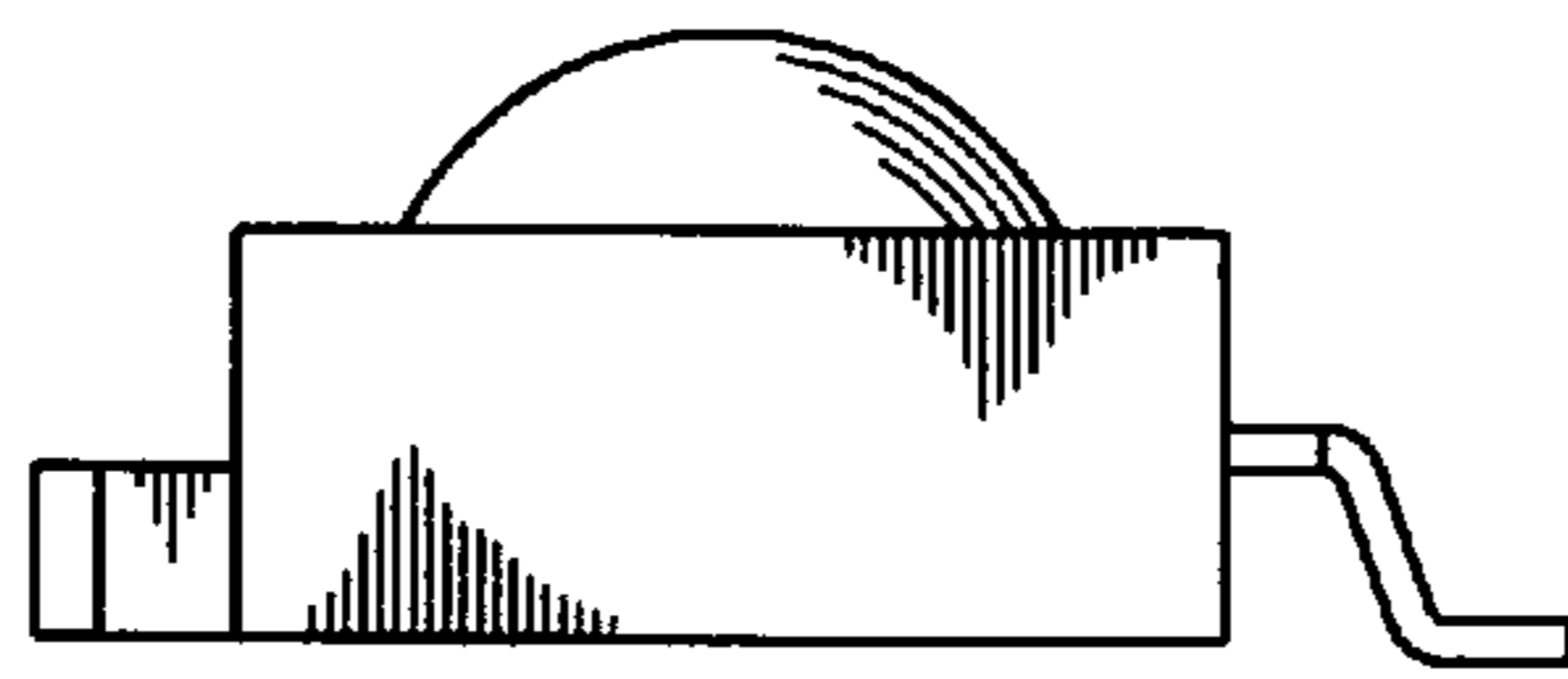


FIG. 3

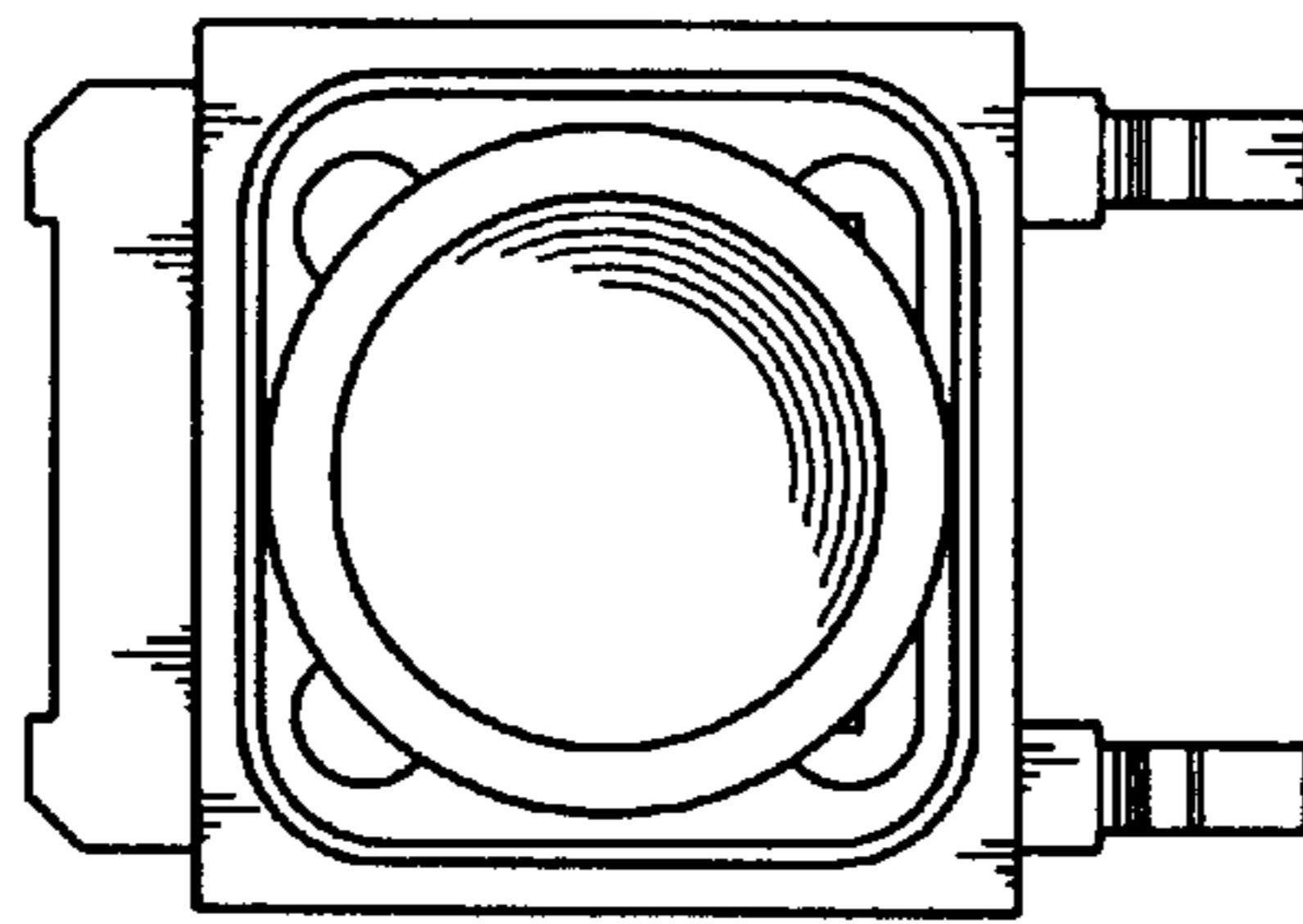


FIG. 4

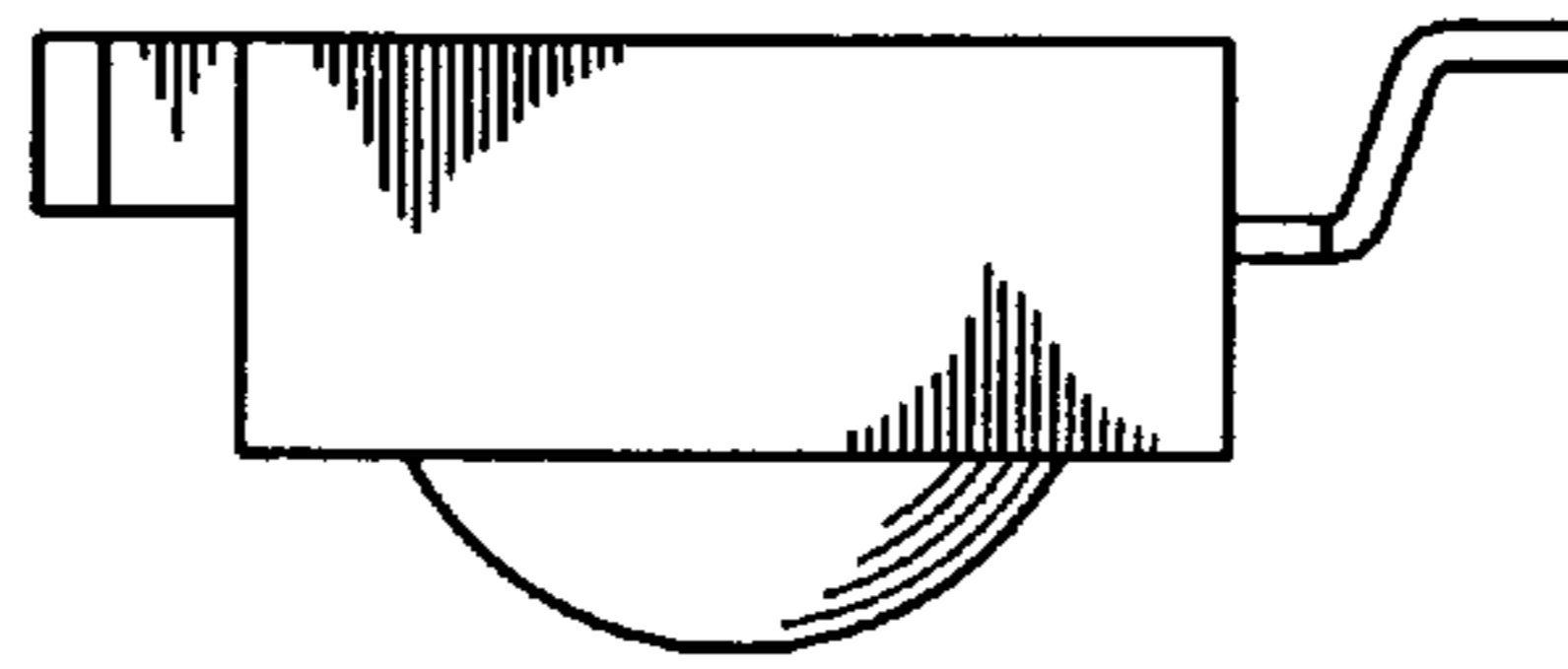


FIG. 5

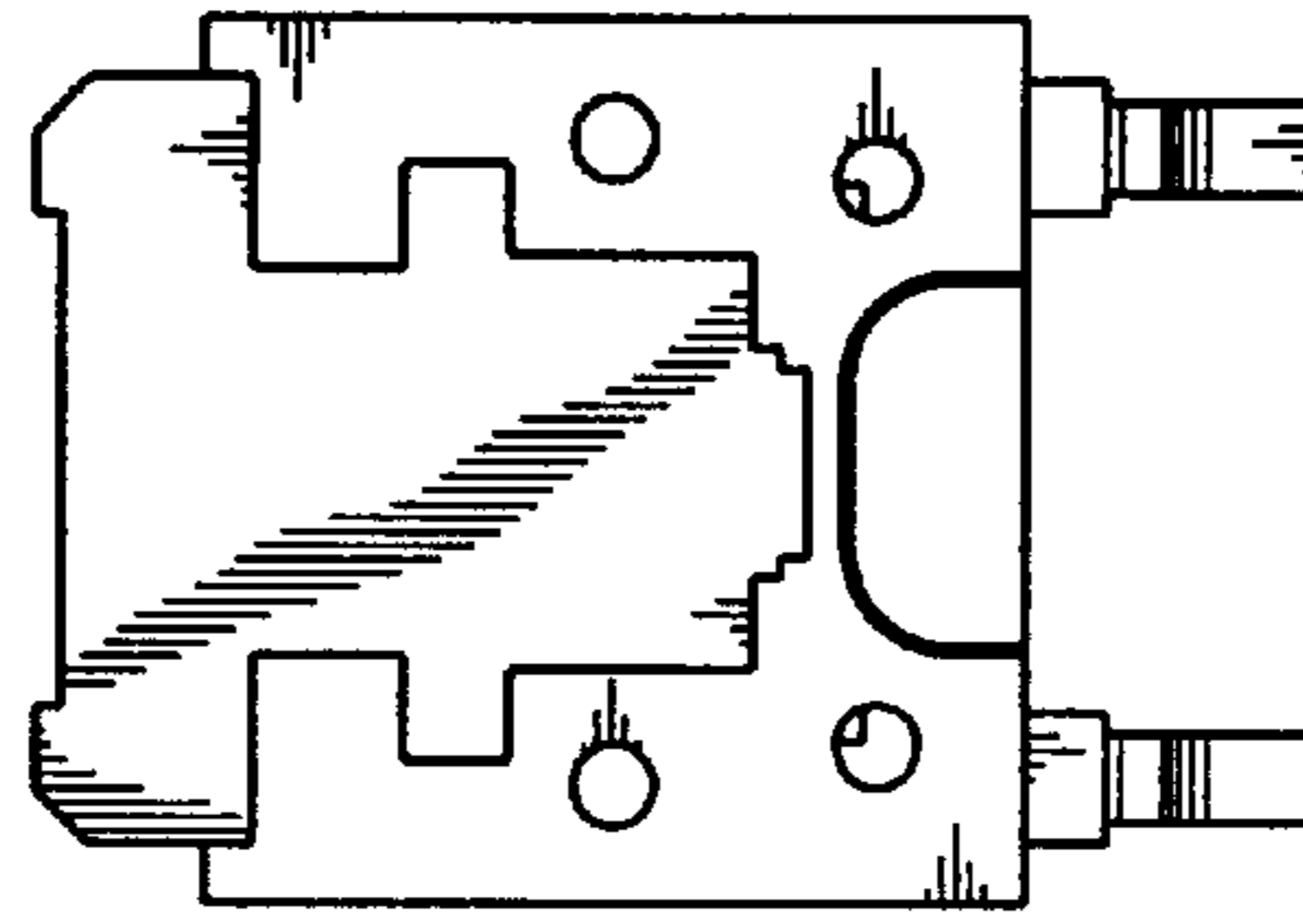


FIG. 6

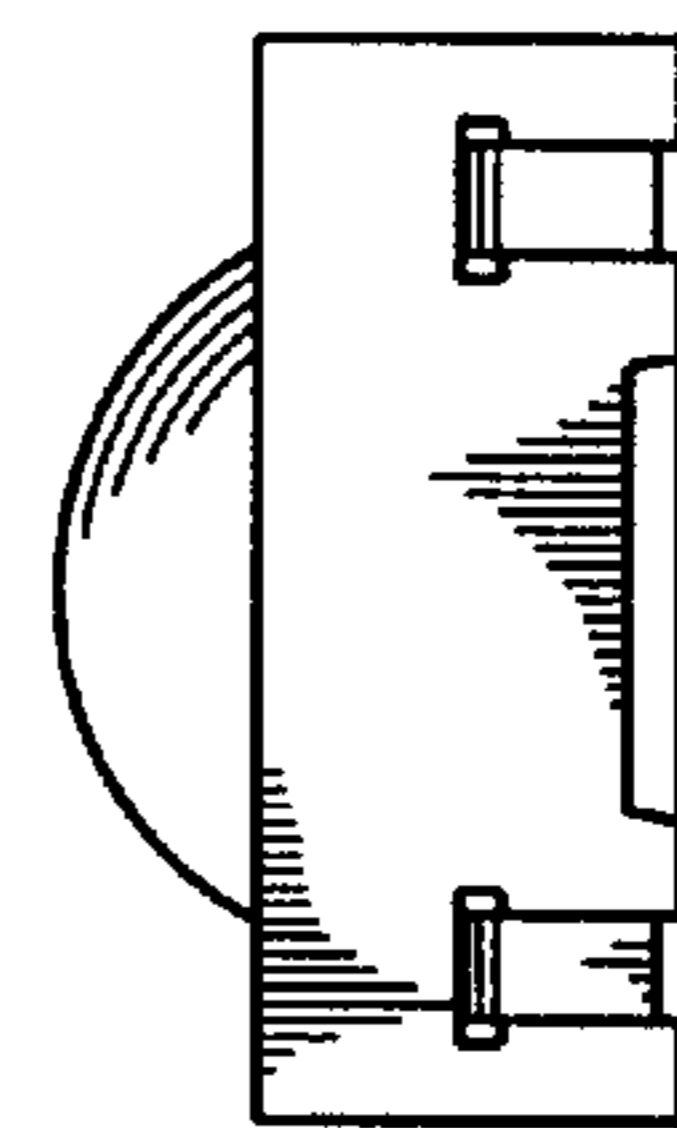


FIG. 7