

US00D556703S

(12) **United States Design Patent**
Suenaga

(10) **Patent No.:** **US D556,703 S**
(45) **Date of Patent:** **** Dec. 4, 2007**

- (54) **LIGHT EMITTING DIODE**
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- (73) Assignee: **Nichia Corporation**, Anan (JP)
- (**) Term: **14 Years**
- (21) Appl. No.: **29/271,752**
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3,914,786 A	10/1975	Grossi
4,152,624 A	5/1979	Knaebel
4,215,361 A	7/1980	McCarthy
4,270,138 A	5/1981	Desmond
4,631,805 A	12/1986	Olsen et al.
D289,037 S	3/1987	Nishizawa et al.
4,827,329 A	5/1989	Schach 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.
6,476,481 B2	11/2002	Woodworth et al.
6,608,334 B1	8/2003	Ishinaga
6,670,207 B1	12/2003	Roberts
D486,801 S	2/2004	Suenaga
D488,137 S	4/2004	Kamada

Related U.S. Application Data

- (62) Division of application No. 29/264,841, filed on Aug. 21, 2006, now Pat. No. Des. 540,271, which is a division of application No. 29/253,543, filed on Feb. 9, 2006, now Pat. No. Des. 528,079, which is a division of application No. 29/241,322, filed on Oct. 27, 2005, now Pat. No. Des. 522,469, which is a division of application No. 29/226,624, filed on Mar. 31, 2005, now Pat. No. Des. 515,045, which is a 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.

Foreign Application Priority Data

- (30) 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;
D26/2; 257/79, 80, 81, 88, 89, 95-100, 433,
257/434, 676, 678, 680, 690; 313/483, 498,
313/500; 361/820; 362/555, 800; 372/45.01
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,855,606 A 12/1974 Schoberl

(Continued)

FOREIGN PATENT DOCUMENTS

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

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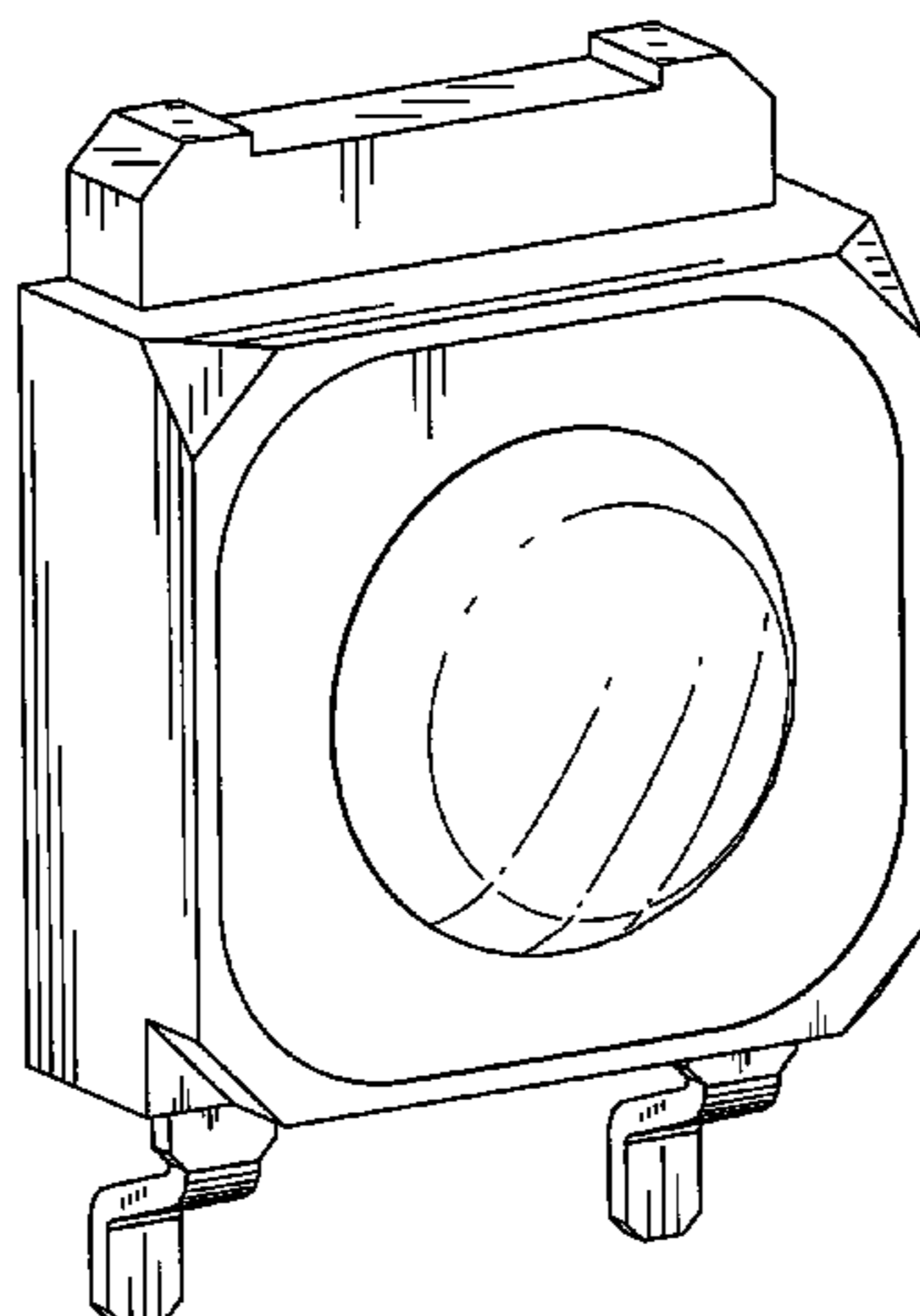
(57) **CLAIM**

I claim the ornamental design for a 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 top plan view thereof;
 FIG. 3 is a left side elevation view thereof;
 FIG. 4 is a front elevation view thereof;
 FIG. 5 is a right side elevation view thereof;
 FIG. 6 is a rear plan view thereof; and,
 FIG. 7 is a bottom elevation view thereof.

1 Claim, 2 Drawing Sheets



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U.S. PATENT DOCUMENTS

D491,899 S	6/2004	Yagi	D515,045 S	2/2006	Suenaga	
D497,884 S	11/2004	Suenaga	D522,469 S	6/2006	Suenaga	
6,828,170 B2	12/2004	Roberts et al.	D528,079 S	9/2006	Suenaga	
D505,120 S	5/2005	Suenaga	D535,263 S *	1/2007	Sumitani D13/180
6,924,514 B2	8/2005	Suenaga	D539,760 S *	4/2007	Sumitani et al. D13/180
6,975,023 B2	12/2005	Oliver et al.	D540,271 S *	4/2007	Suenaga et al. D13/180

* cited by examiner

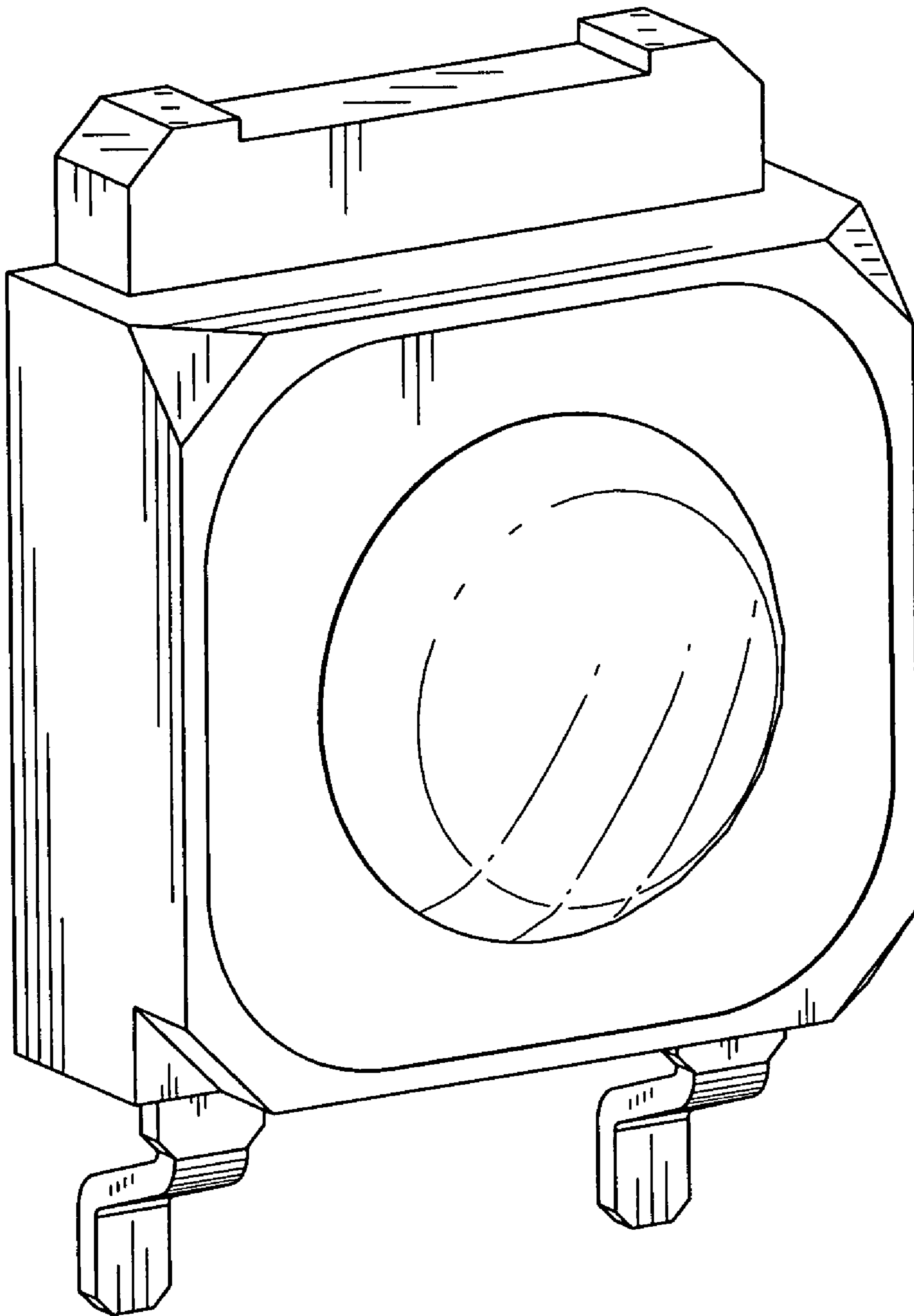


FIG. 1

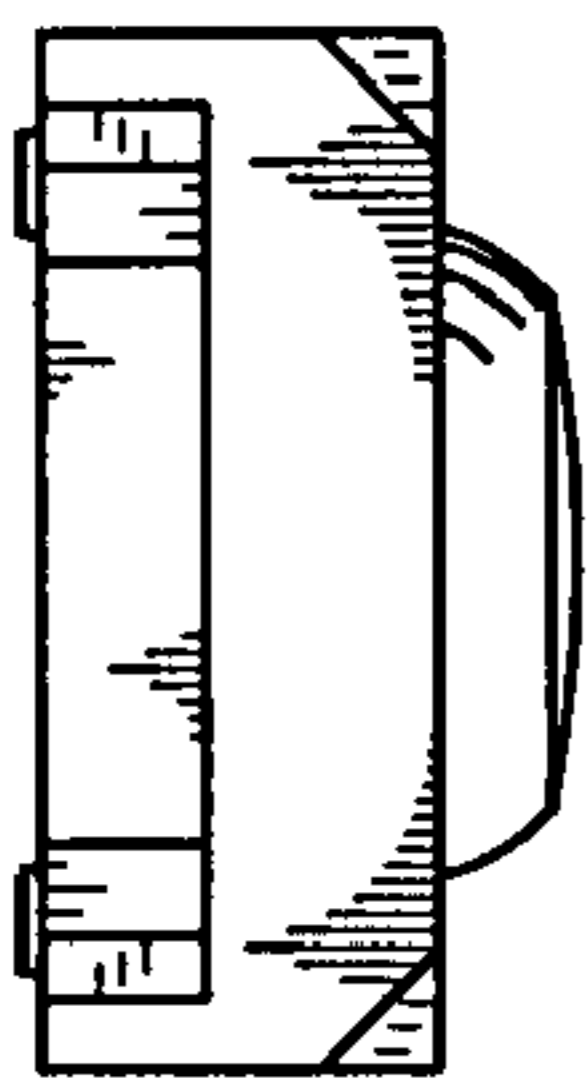


FIG. 2

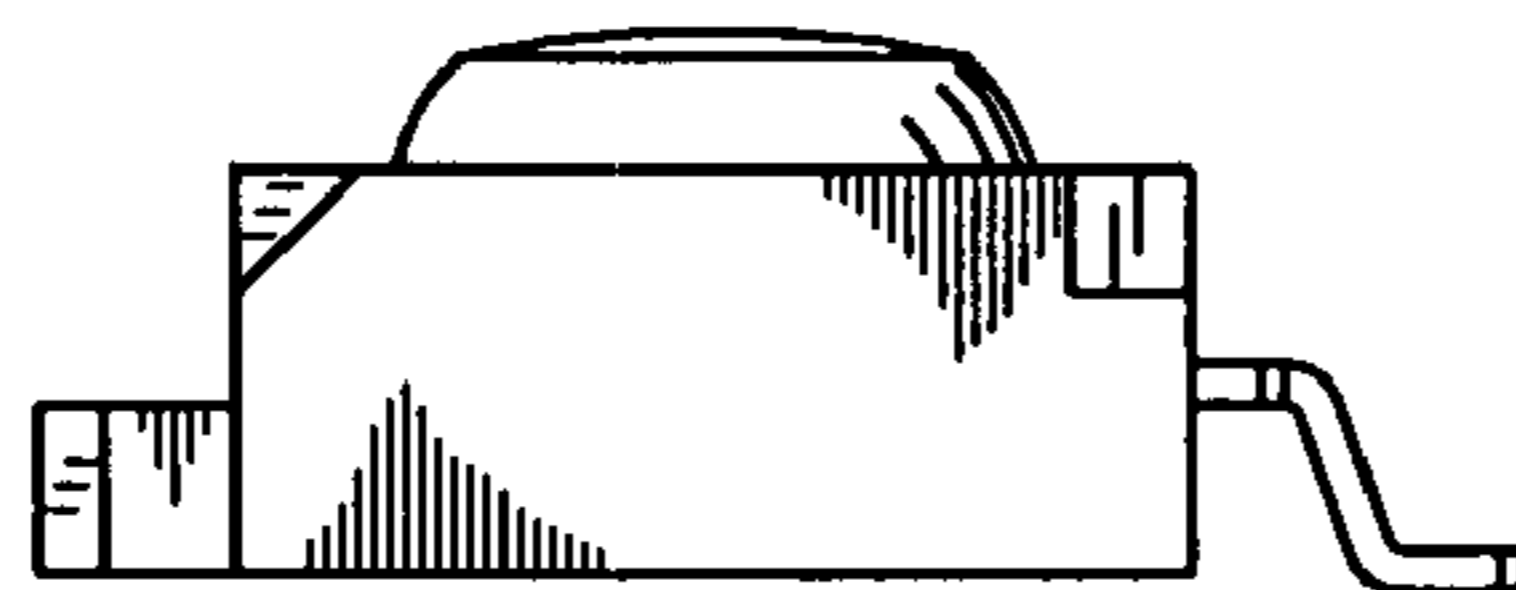


FIG. 3

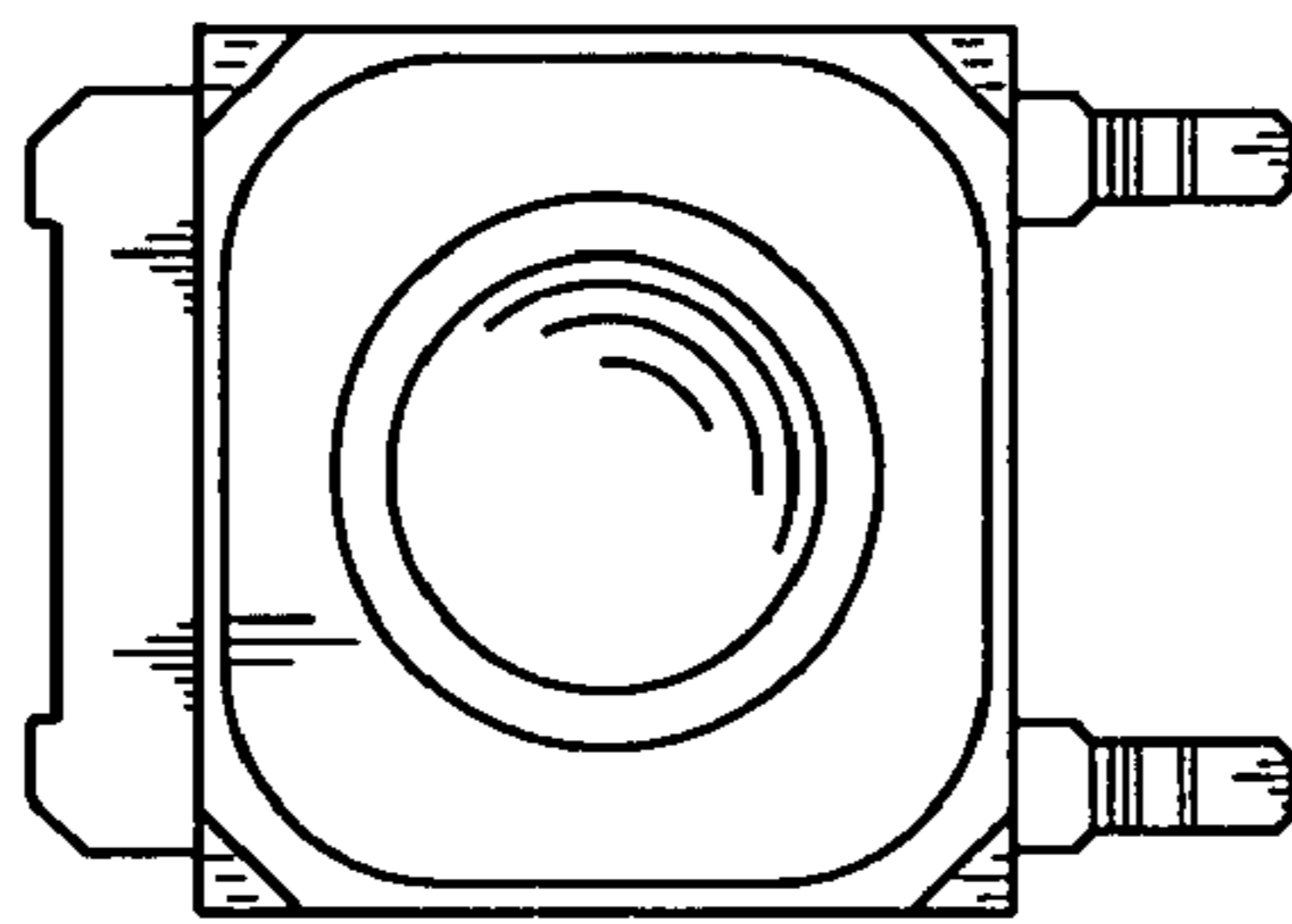


FIG. 4

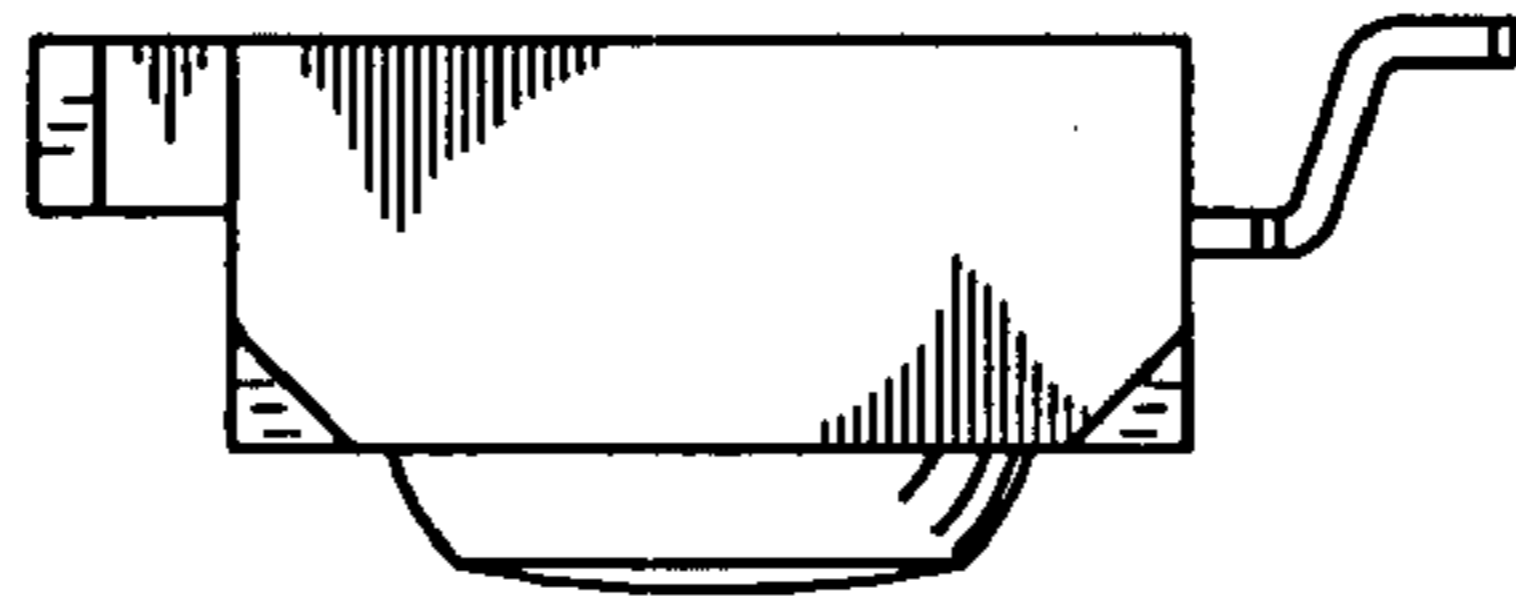


FIG. 5

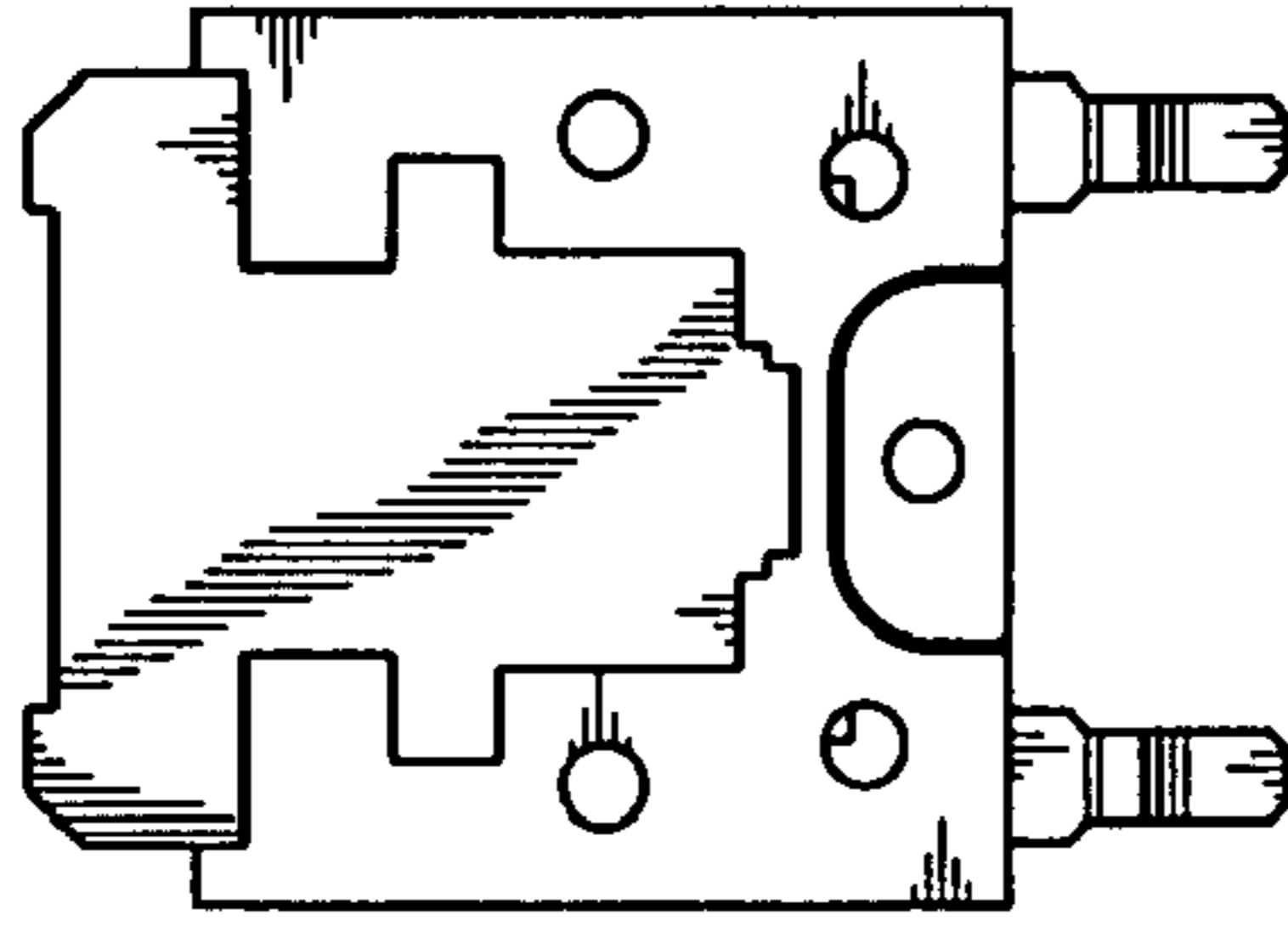


FIG. 6

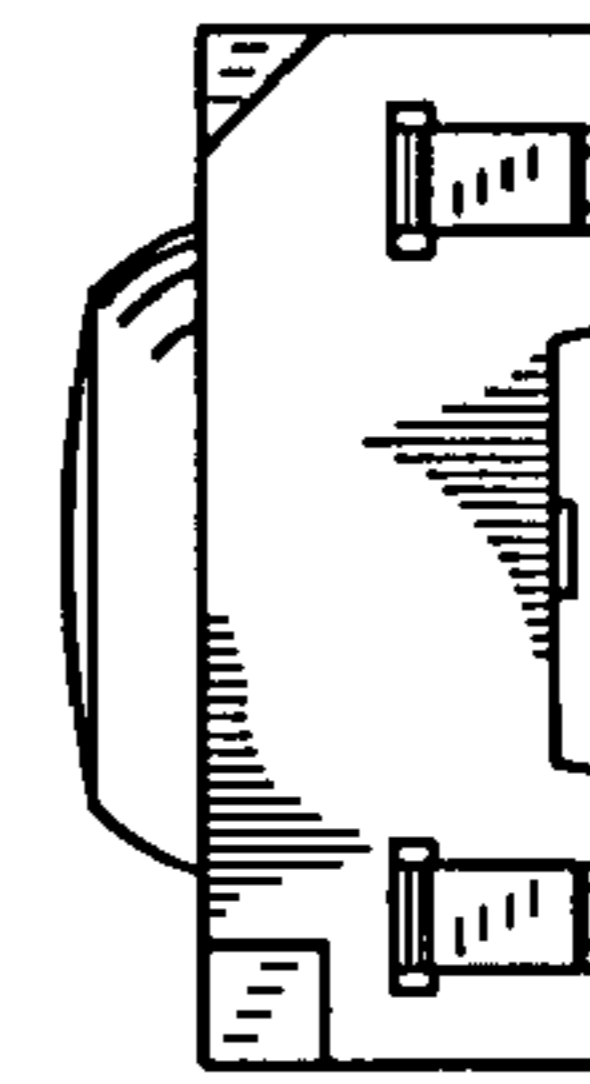


FIG. 7