



US00D572209S

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

(10) **Patent No.:** **US D572,209 S**
(45) **Date of Patent:** **** Jul. 1, 2008**

(54) **LIGHT EMITTING DIODE**

(75) Inventor: **Keisuke Tokuda**, Tokushima (JP)

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

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

(21) Appl. No.: **29/271,695**

(22) Filed: **Jan. 25, 2007**

(30) **Foreign Application Priority Data**

Aug. 4, 2006	(JP)	.....	2006-020773
Aug. 4, 2006	(JP)	.....	2006-020774
Aug. 4, 2006	(JP)	.....	2006-020775
Aug. 4, 2006	(JP)	.....	2006-020776
Aug. 4, 2006	(JP)	.....	2006-020777
Aug. 4, 2006	(JP)	.....	2006-020778

(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, 98, 99,
257/100; 313/483, 498, 500; 362/555, 800
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D432,095 S	10/2000	Seeger et al.	
6,386,733 B1 *	5/2002	Ohkohdo et al.	362/249
6,495,860 B1 *	12/2002	Yu	257/99
6,501,103 B1 *	12/2002	Jory et al.	257/100
D477,580 S *	7/2003	Kamada	D13/182
D488,137 S *	4/2004	Kamada	D13/182
2005/0067624 A1 *	3/2005	Steigerwald et al.	257/79
2005/0173723 A1 *	8/2005	Weng et al.	257/100
2005/0269589 A1 *	12/2005	Wu	257/99

OTHER PUBLICATIONS

High Luminous Flux LED, Product Guide (NSPBR70AS / NSPGR70AS); Sep. 2005; p. 1 (total 3 pages); Catalog No. 050907; Nichia Corporation; Japan.

* cited by examiner

Primary Examiner—Selina Sikder

(74) *Attorney, Agent, or Firm*—Global IP Counselors, LLP

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front top side perspective view of a light emitting diode in accordance with a first embodiment of my new design;

FIG. 2 is a front elevational view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 3 is a rear elevational view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 4 is a right side end elevational view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 5 is a left side end elevational view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 6 is a top plan view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 7 is a bottom plan view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 8 is a vertical cross sectional view of the light emitting diode in accordance with the first embodiment of my new design taken along line 8—8 in FIG. 6;

FIG. 9 is a front top side perspective view of a light emitting diode in accordance with a second embodiment of my new design;

FIG. 10 is a front elevational view of the light emitting diode in accordance with the second embodiment of my new design;

FIG. 11 is a rear elevational view of the light emitting diode in accordance with the second embodiment of my new design;

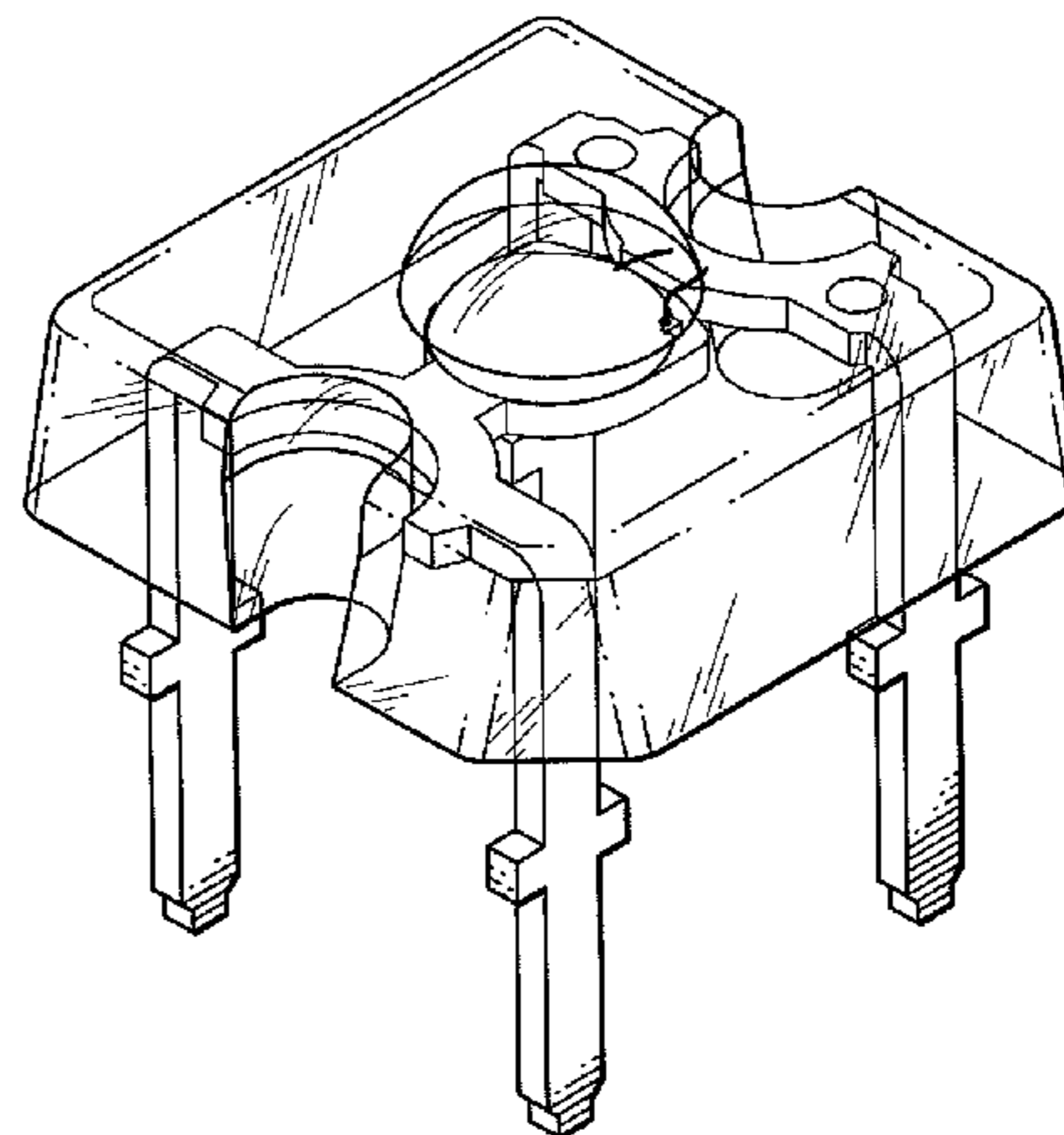
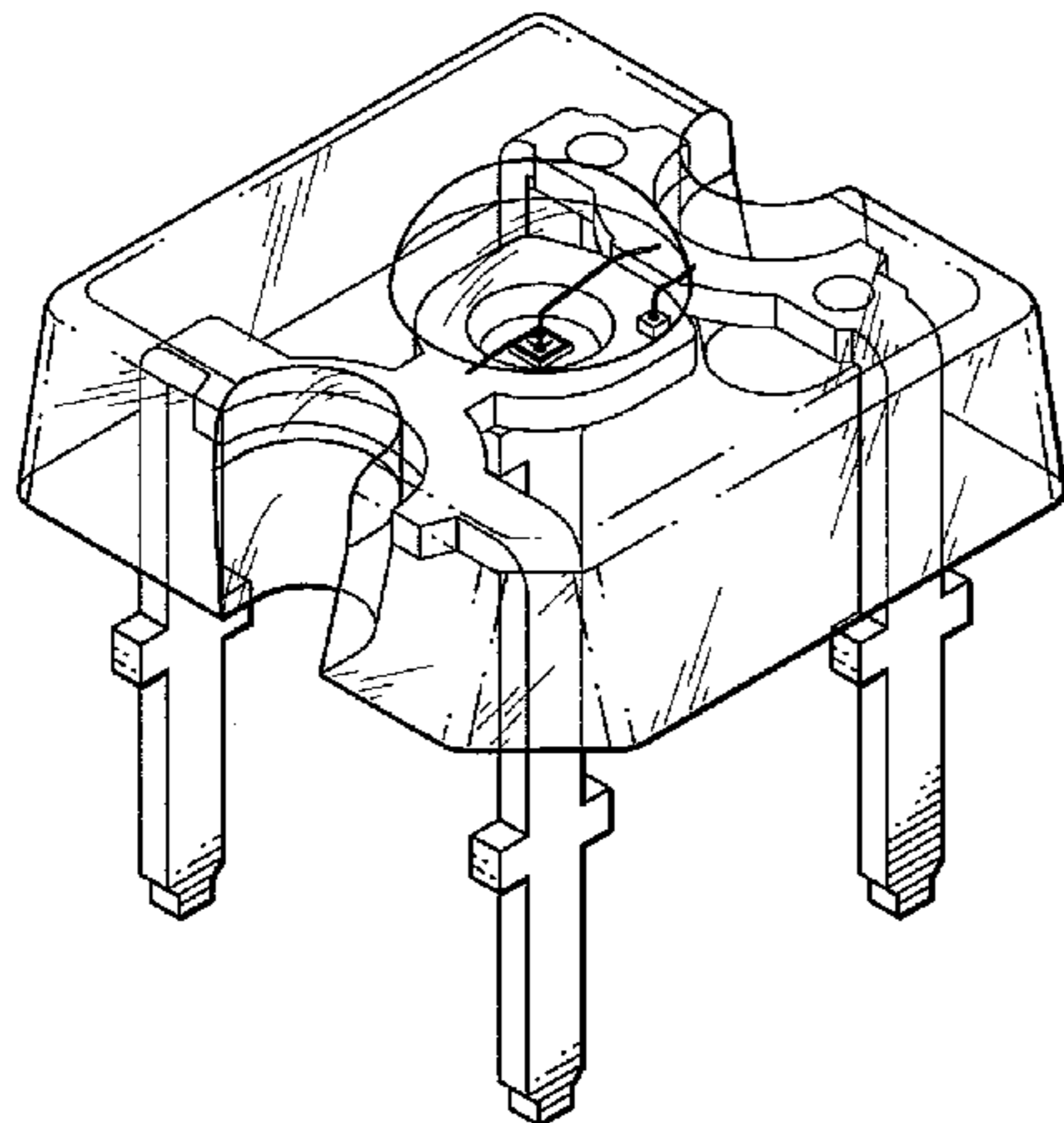


FIG. 12 is a right side end elevational view of the light emitting diode in accordance with the second embodiment of my new design;

FIG. 13 is a left side end elevational view of the light emitting diode in accordance with the second embodiment of my new design;

FIG. 14 is a top plan view of the light emitting diode in accordance with the second embodiment of my new design;

FIG. 15 is a bottom plan view of the light emitting diode in accordance with the second embodiment of my new design;

FIG. 16 is a vertical cross sectional view of the light emitting diode in accordance with the second embodiment of my new design taken along line 16—16 in FIG. 14;

FIG. 17 is a front top side perspective view of a light emitting diode in accordance with a third embodiment of my new design;

FIG. 18 is a front elevational view of the light emitting diode in accordance with the third embodiment of my new design;

FIG. 19 is a rear elevational view of the light emitting diode in accordance with the third embodiment of my new design;

FIG. 20 is a right side end elevational view of the light emitting diode in accordance with the third embodiment of my new design;

FIG. 21 is a left side end elevational view of the light emitting diode in accordance with the third embodiment of my new design;

FIG. 22 is a top plan view of the light emitting diode in accordance with the third embodiment of my new design;

FIG. 23 is a bottom plan view of the light emitting diode in accordance with the third embodiment of my new design;

FIG. 24 is a vertical cross sectional view of the light emitting diode in accordance with the third embodiment of my new design taken along line 24—24 in FIG. 22;

FIG. 25 is a front top side perspective view of a light emitting diode in accordance with a fourth embodiment of my new design;

FIG. 26 is a front elevational view of the light emitting diode in accordance with the fourth embodiment of my new design;

FIG. 27 is a rear elevational view of the light emitting diode in accordance with the fourth embodiment of my new design;

FIG. 28 is a right side end elevational view of the light emitting diode in accordance with the fourth embodiment of my new design;

FIG. 29 is a left side end elevational view of the light emitting diode in accordance with the fourth embodiment of my new design;

FIG. 30 is a top plan view of the light emitting diode in accordance with the fourth embodiment of my new design;

FIG. 31 is a bottom plan view of the light emitting diode in accordance with the fourth embodiment of my new design; and,

FIG. 32 is a vertical cross sectional view of the light emitting diode in accordance with the fourth embodiment of my new design taken along line 32—32 in FIG. 30.

1 Claim, 20 Drawing Sheets

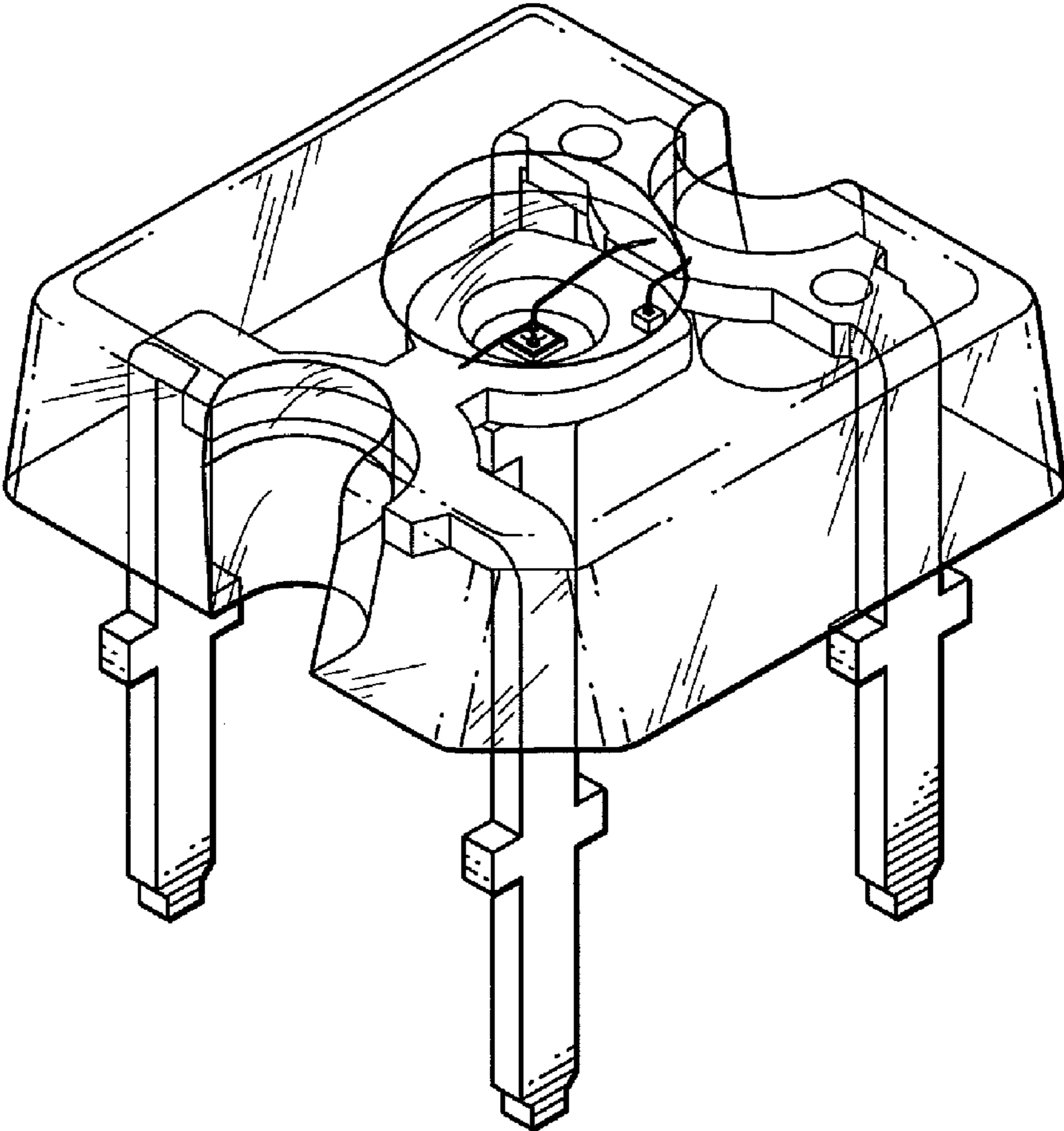


FIG. 1

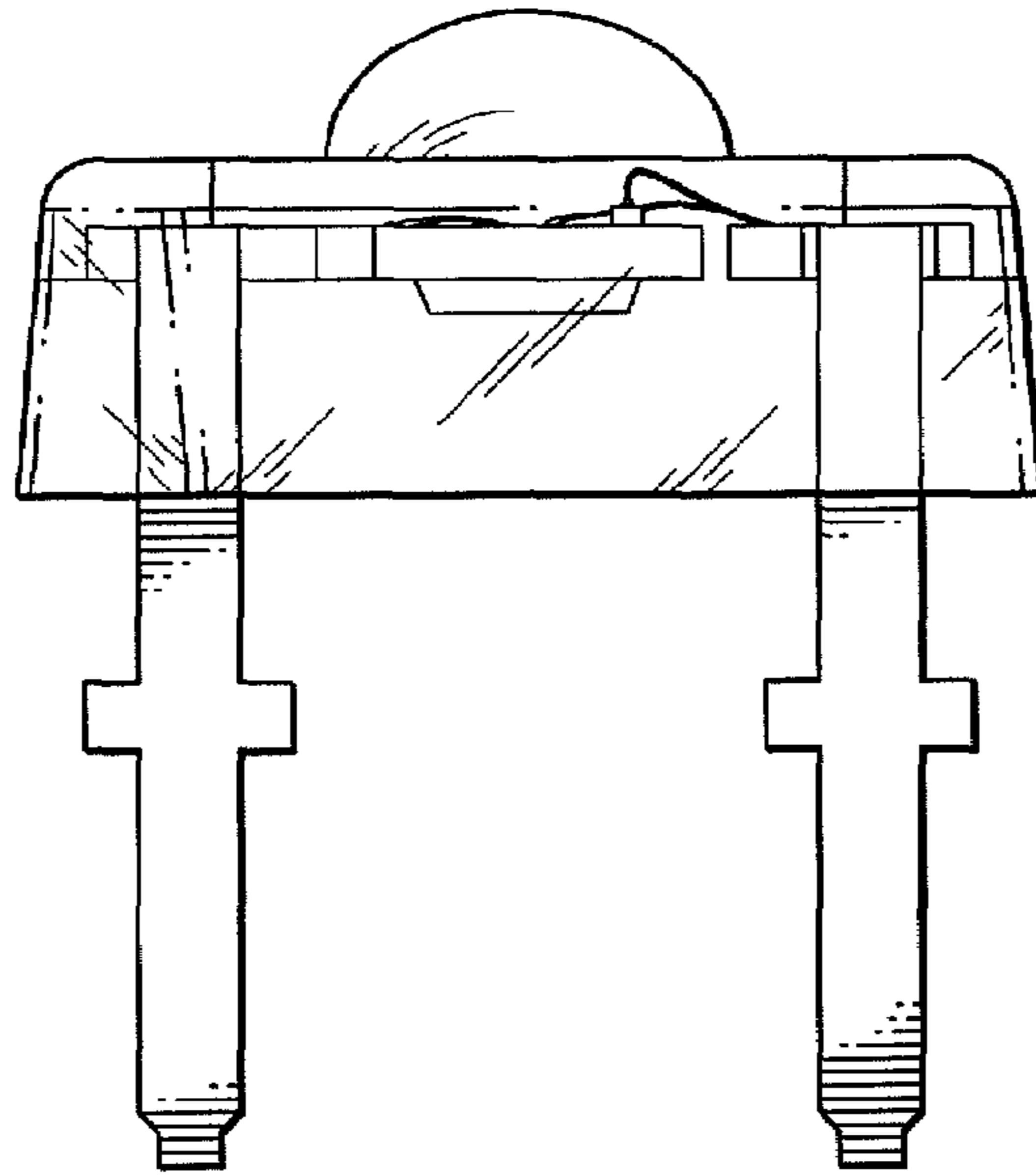


FIG. 2

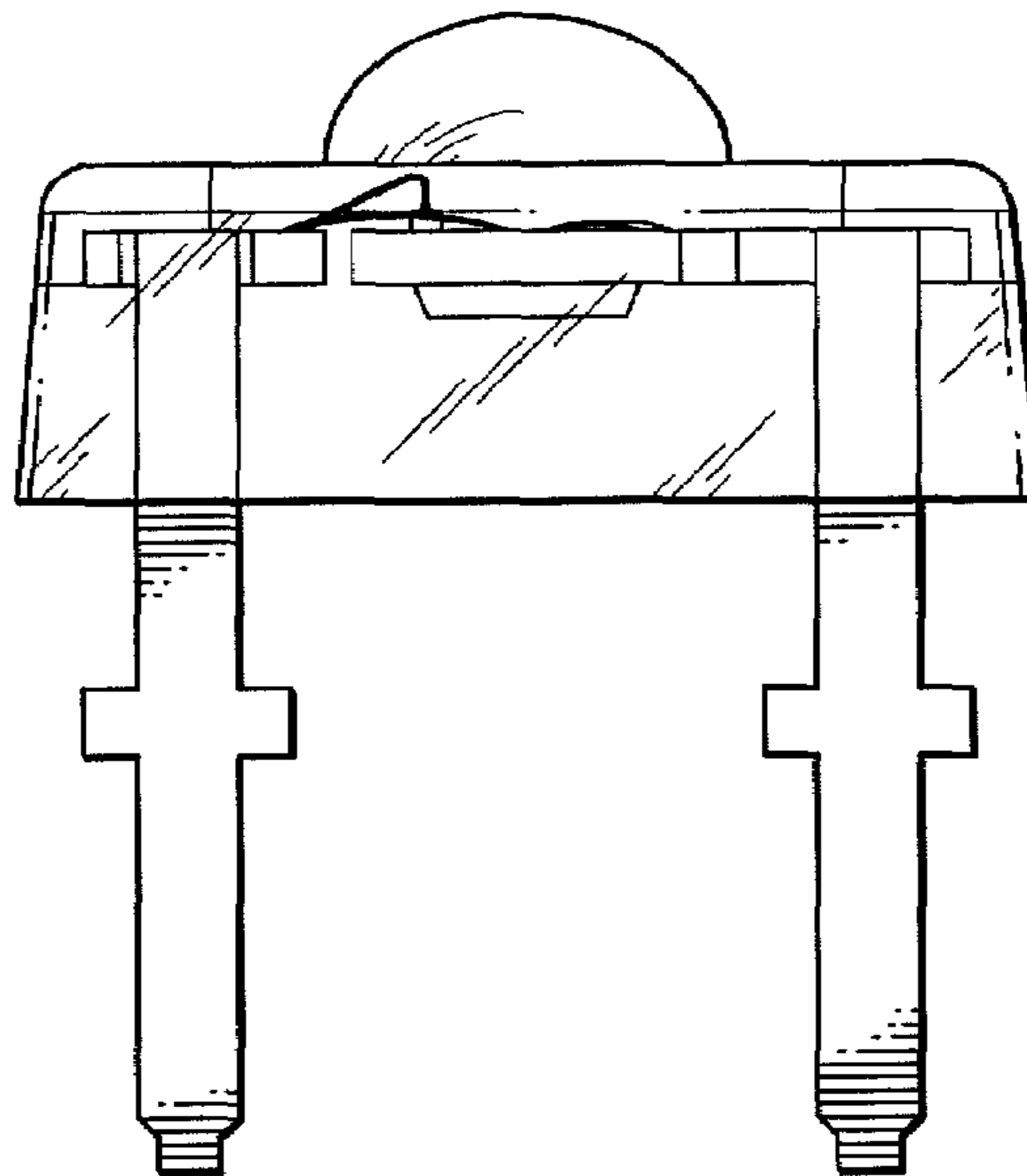


FIG. 3

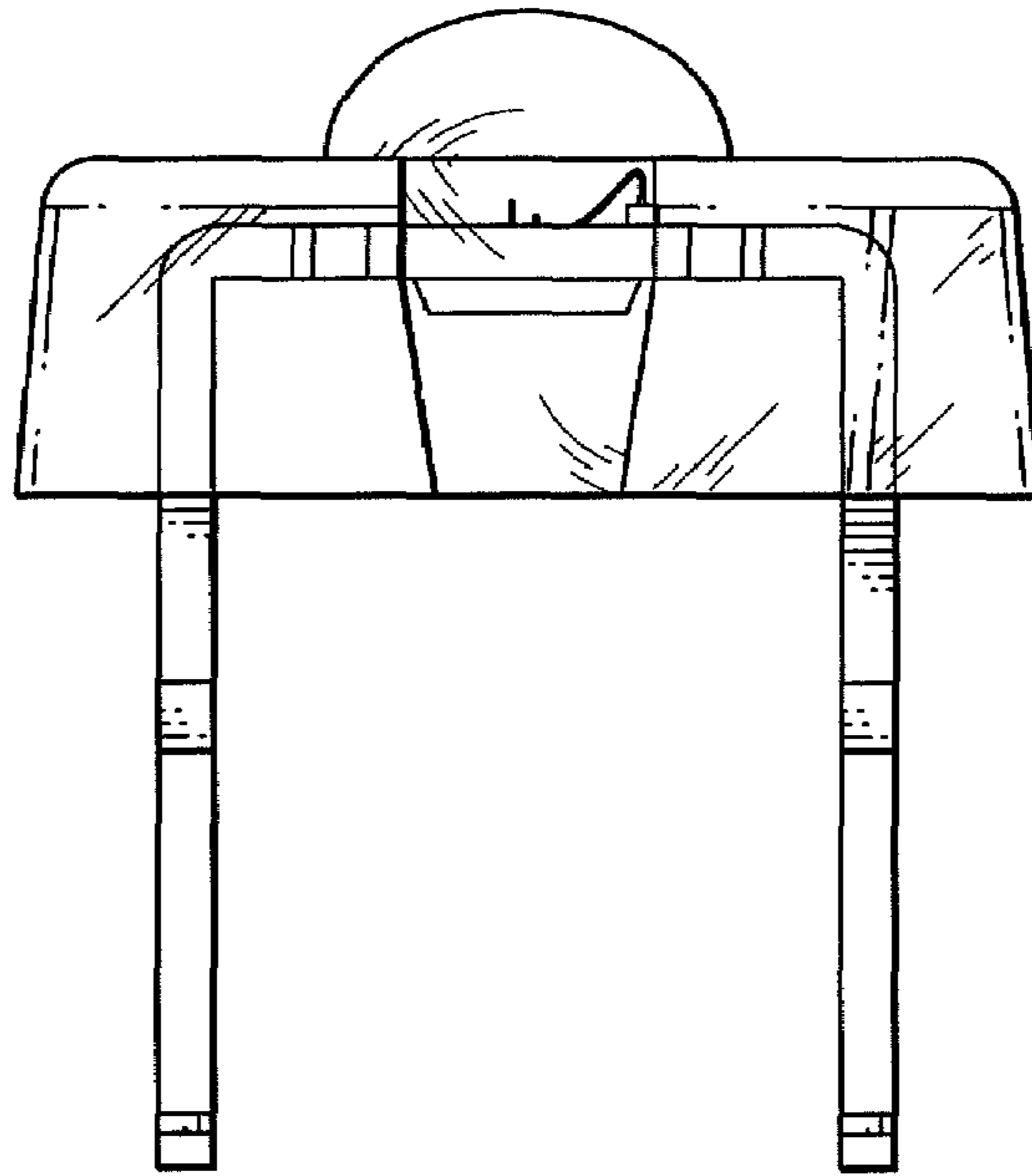


FIG. 4

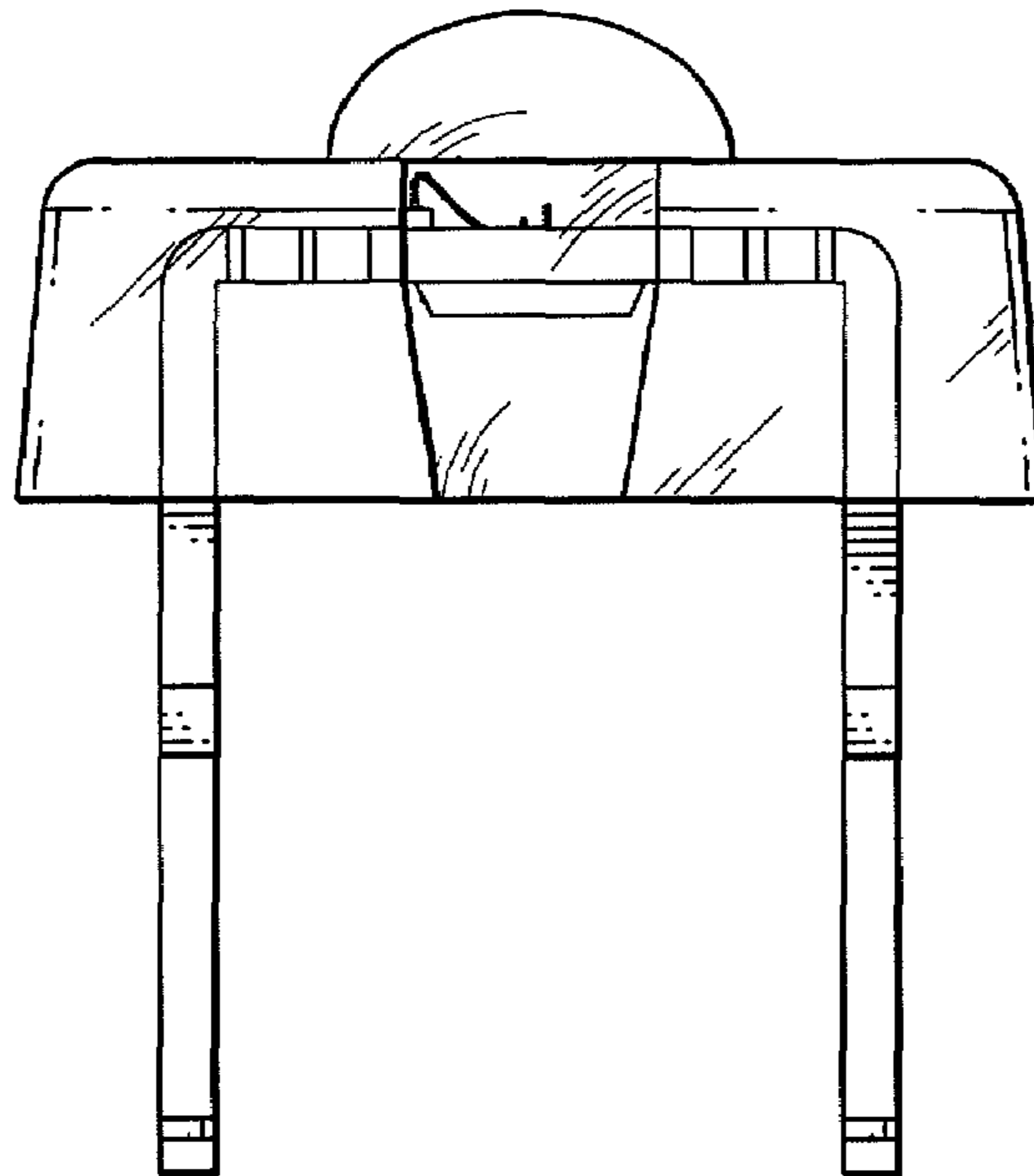


FIG. 5

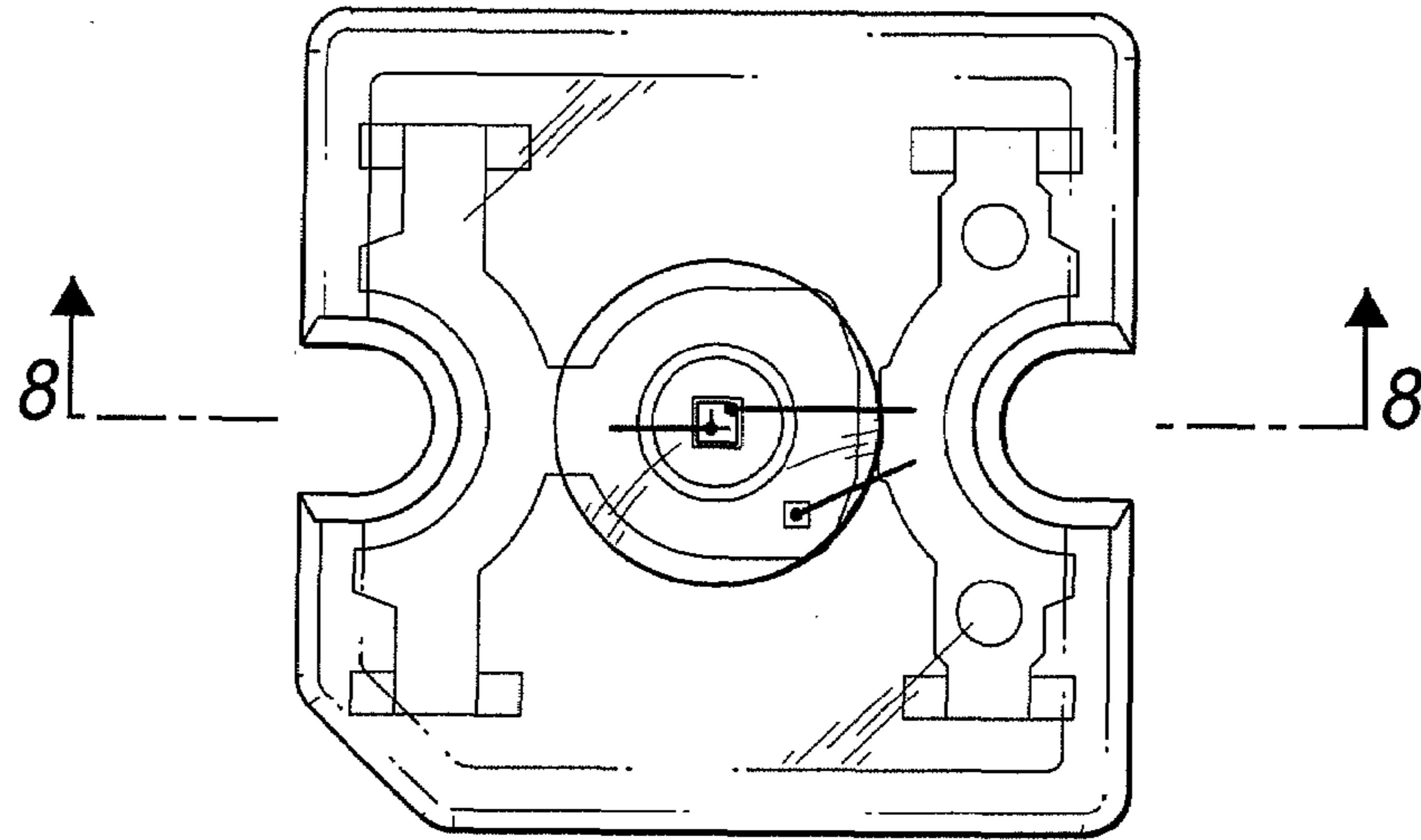


FIG. 6

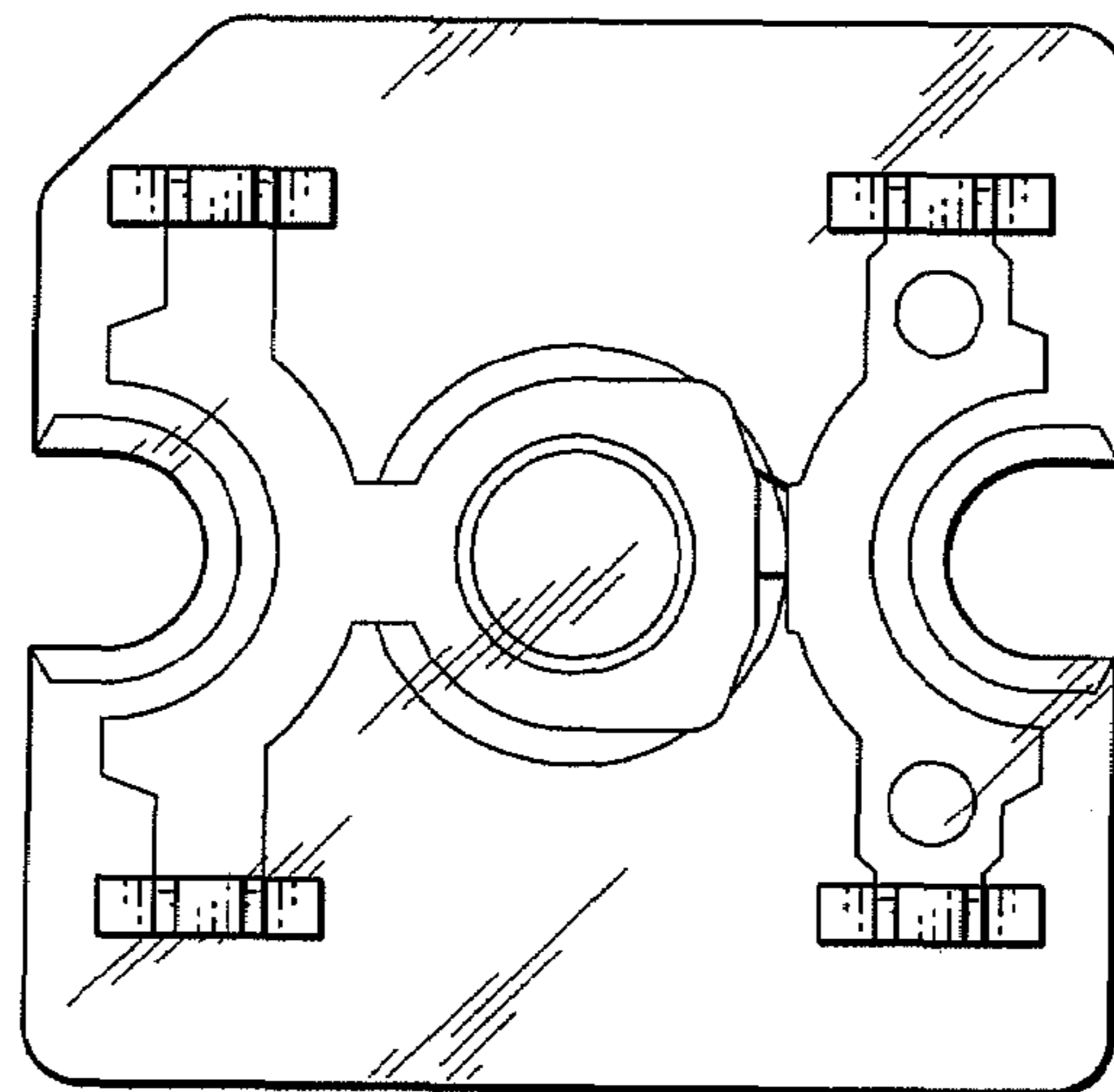


FIG. 7

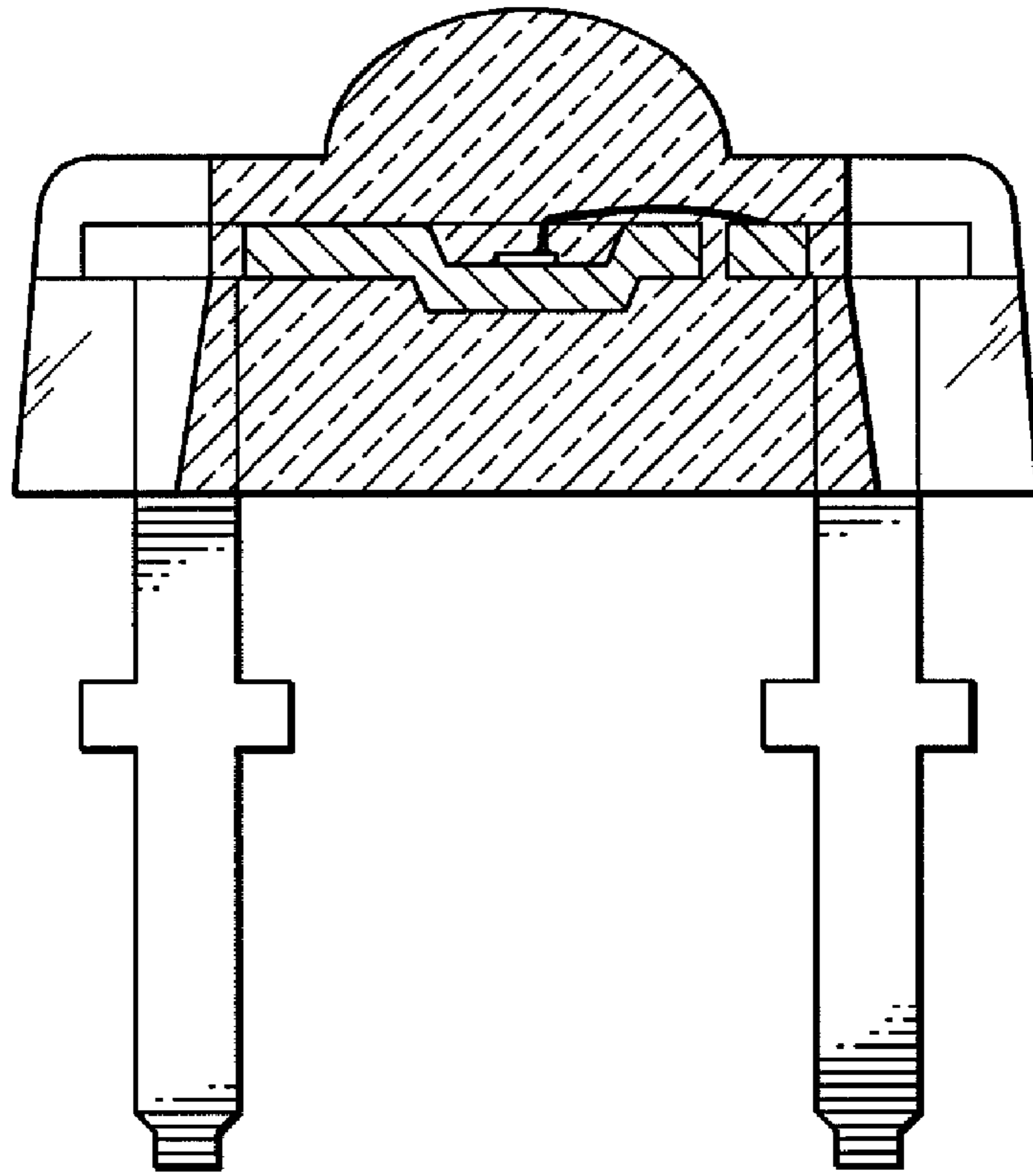


FIG. 8

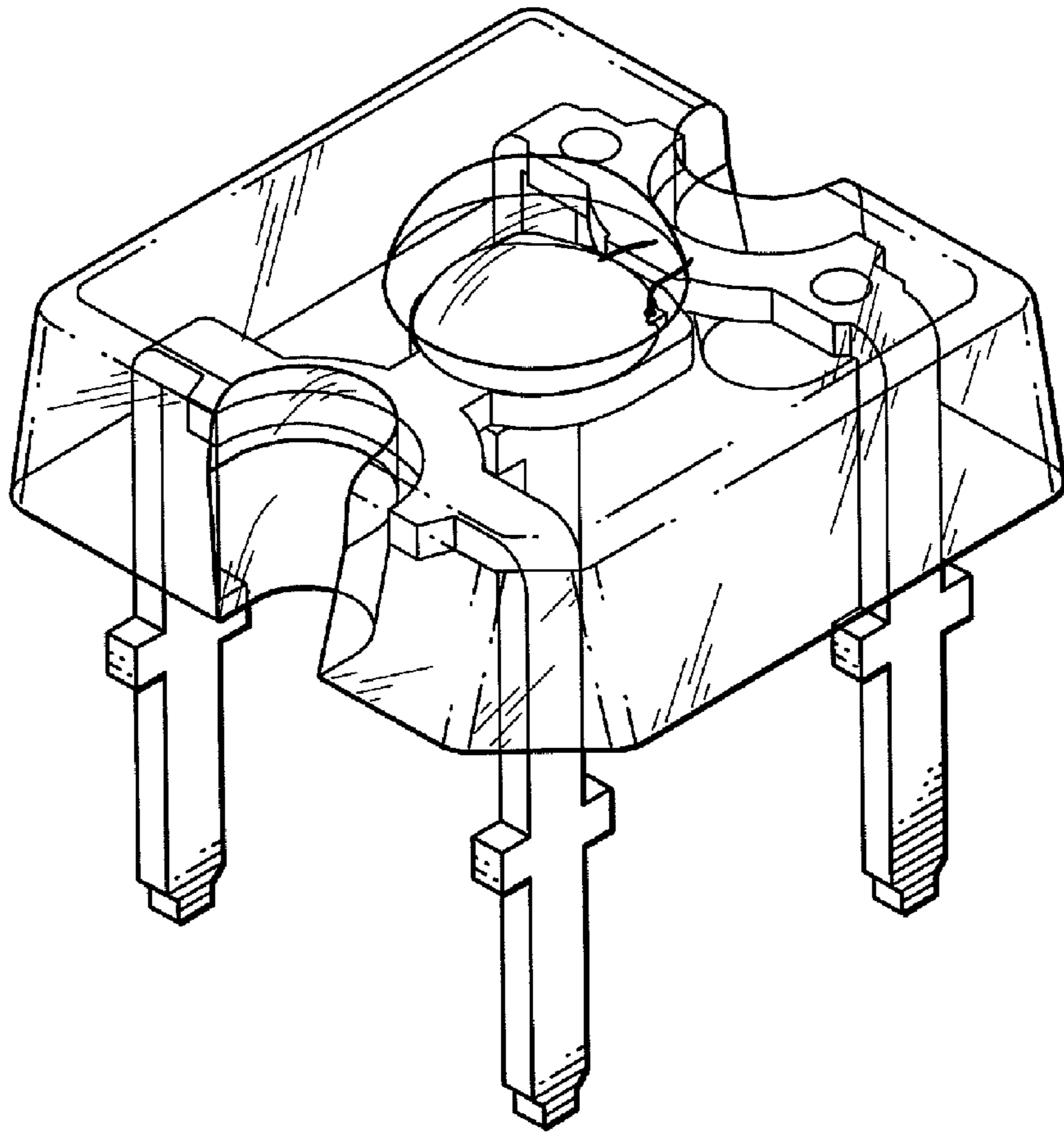


FIG. 9

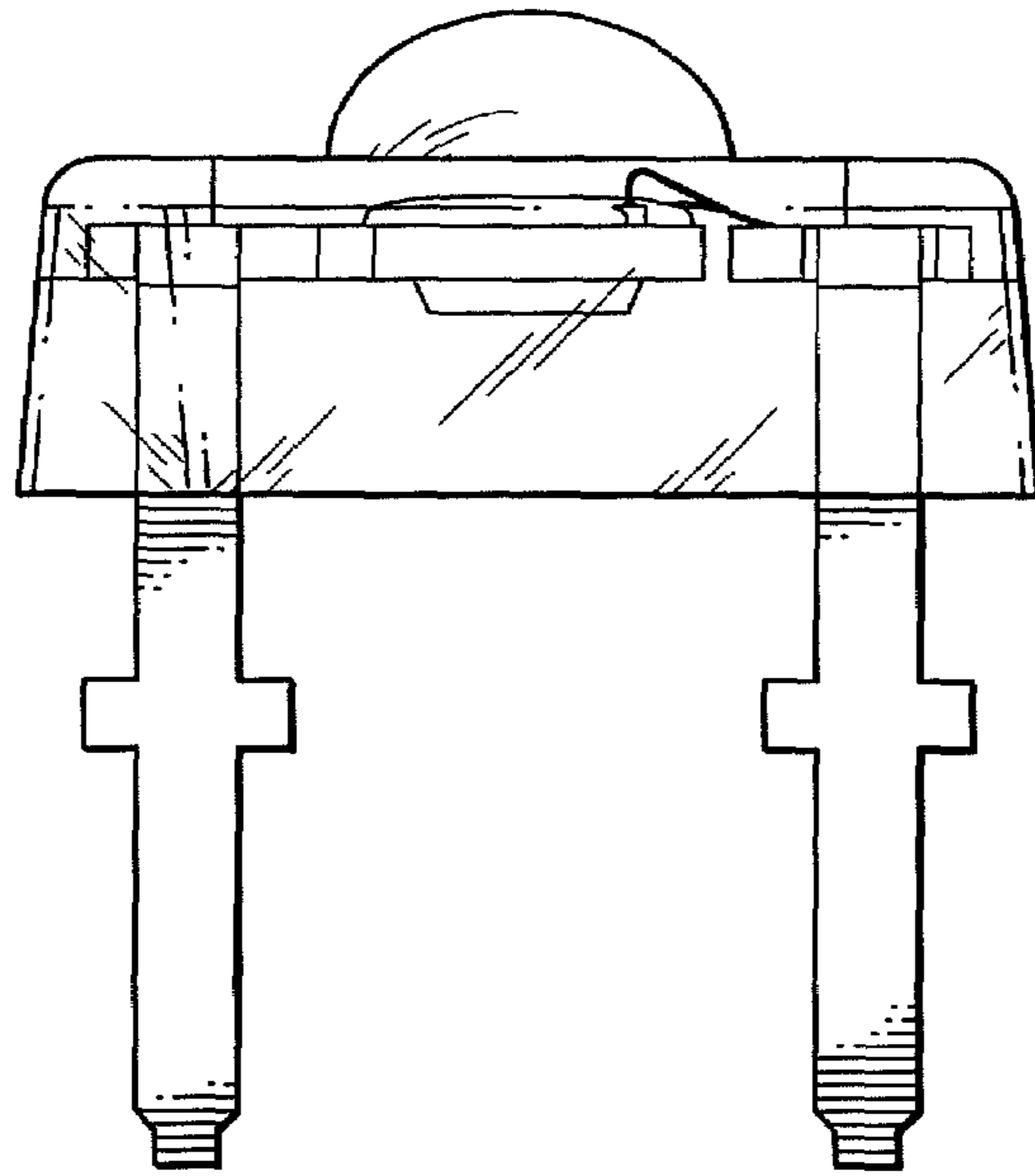


FIG. 10

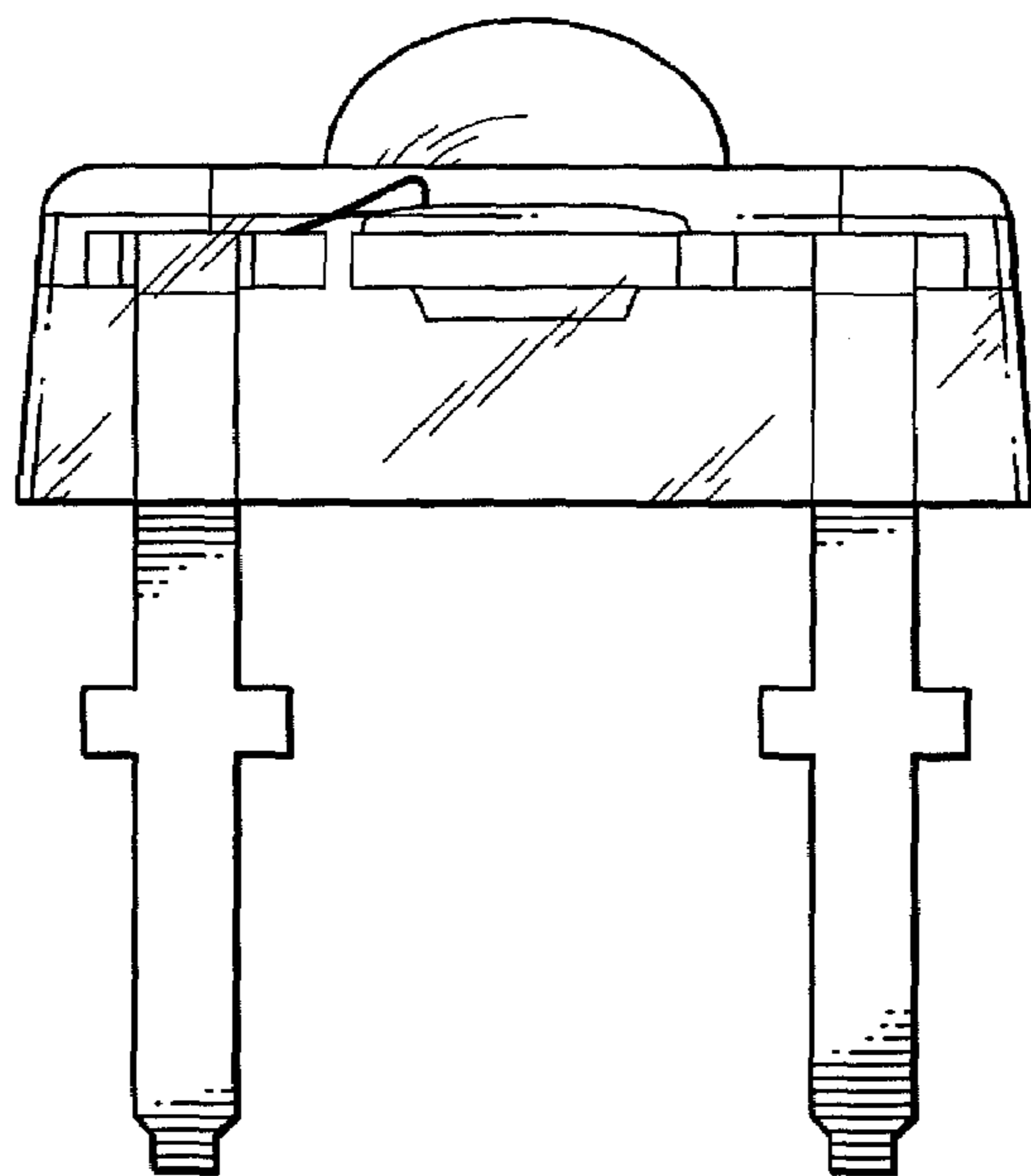


FIG. 11

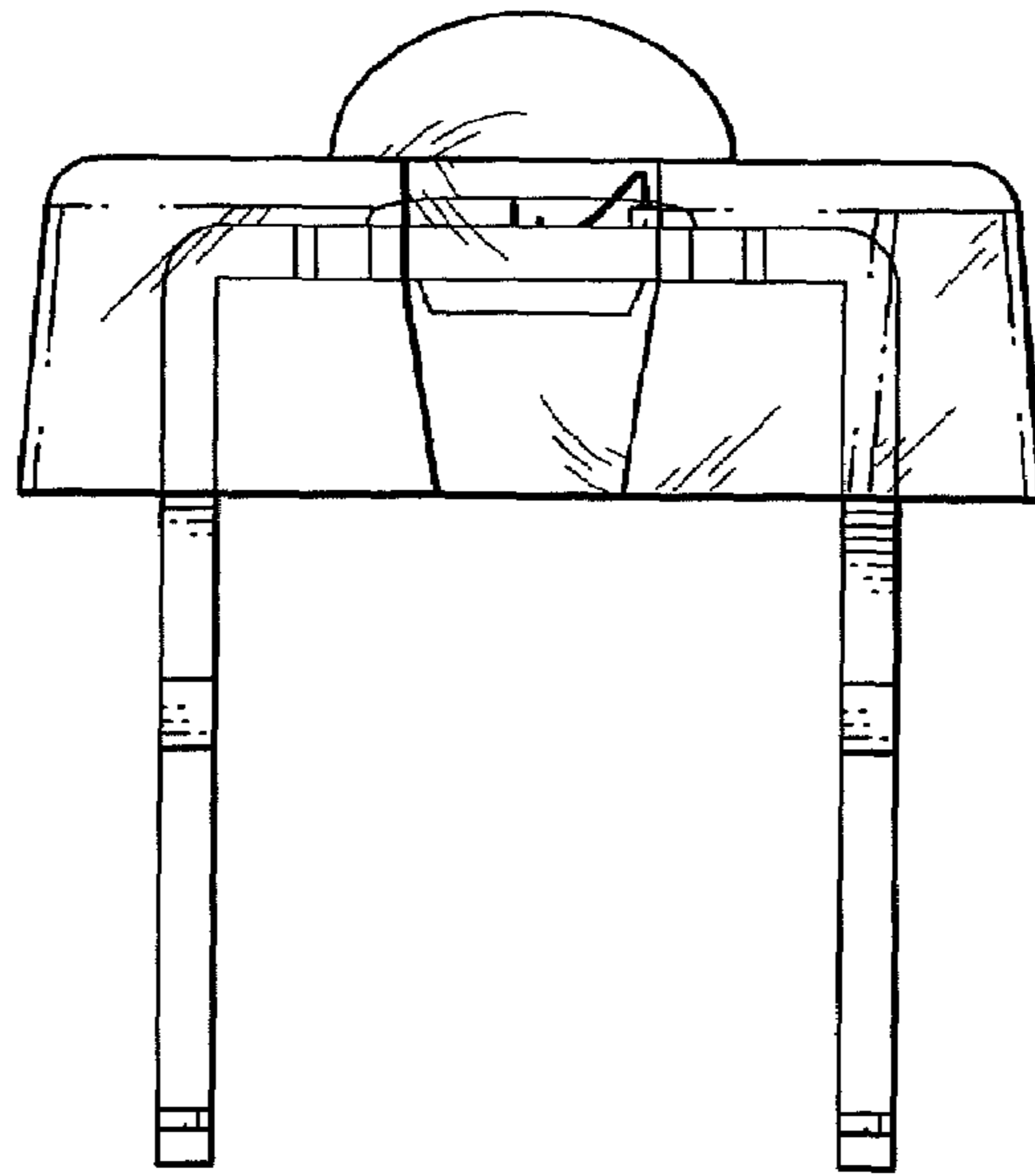


FIG. 12

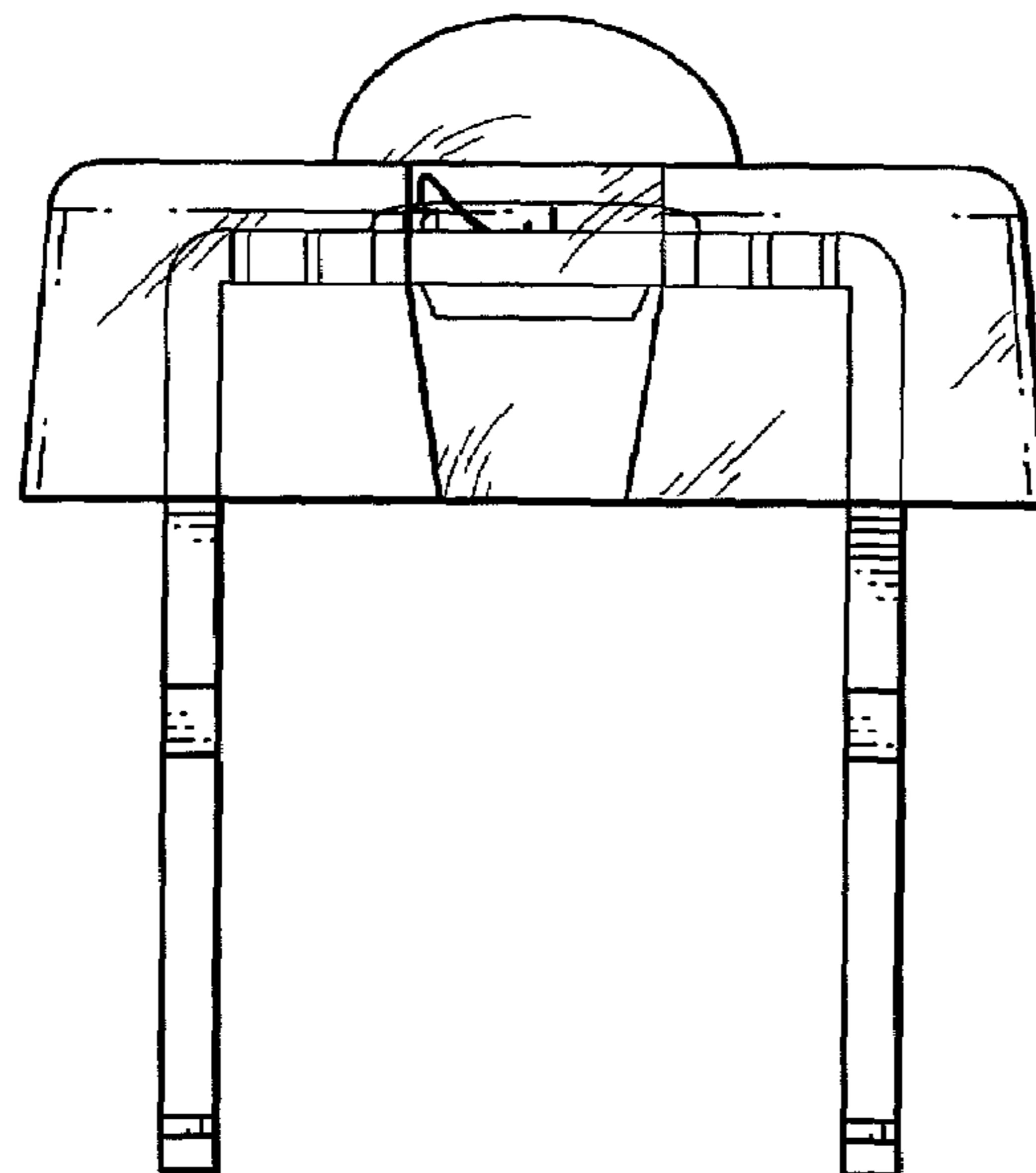


FIG. 13

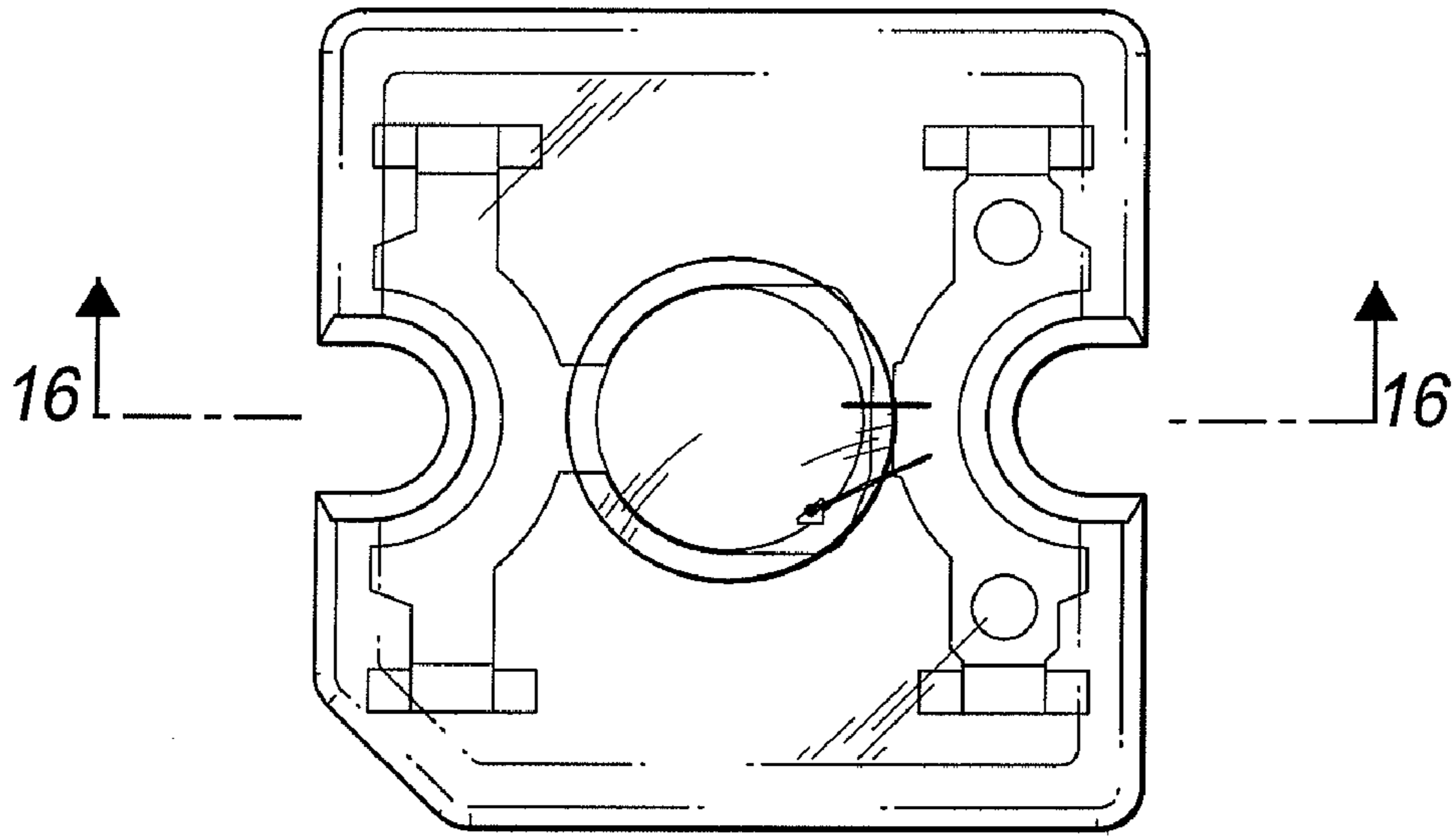


FIG. 14

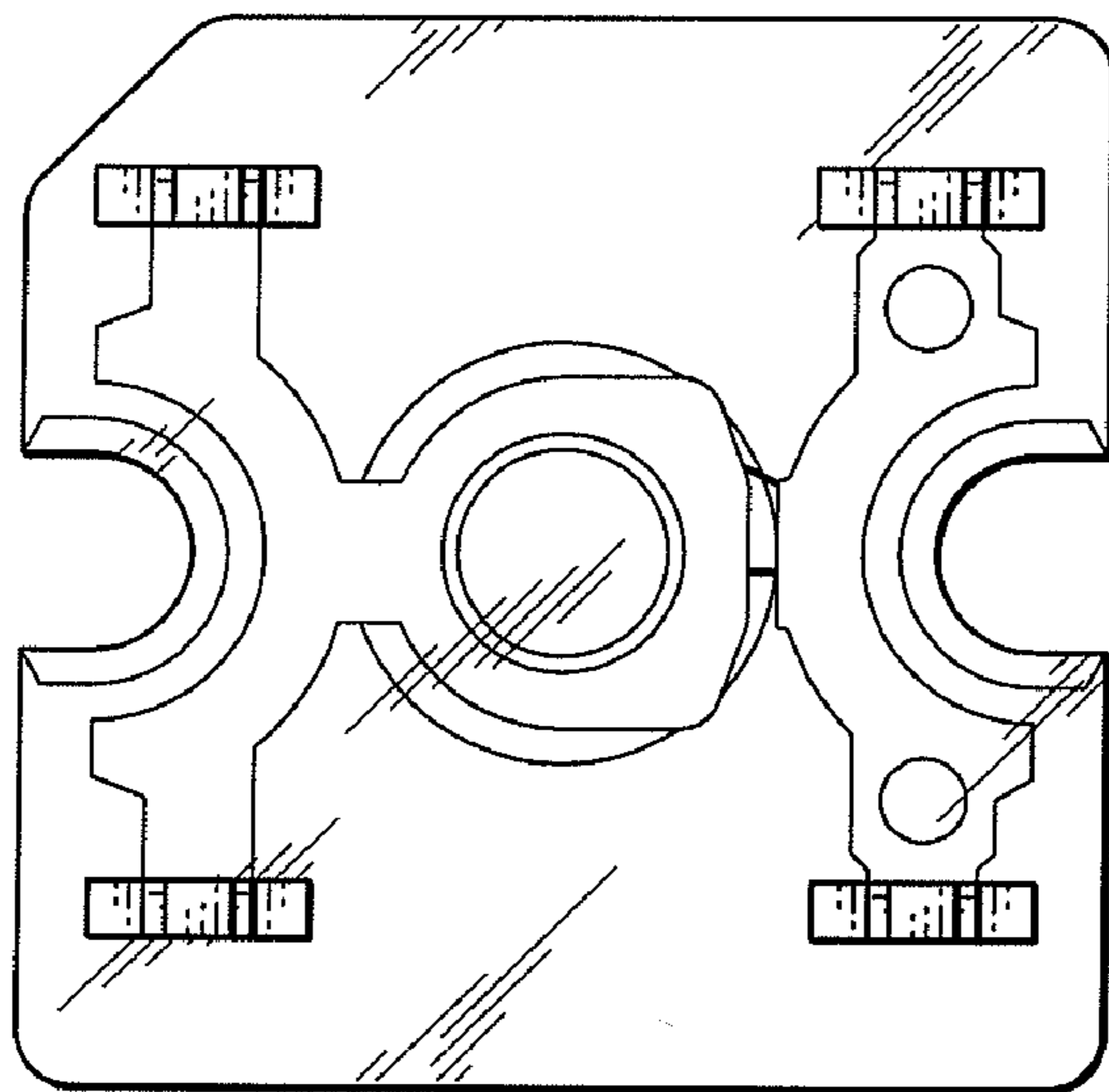


FIG. 15

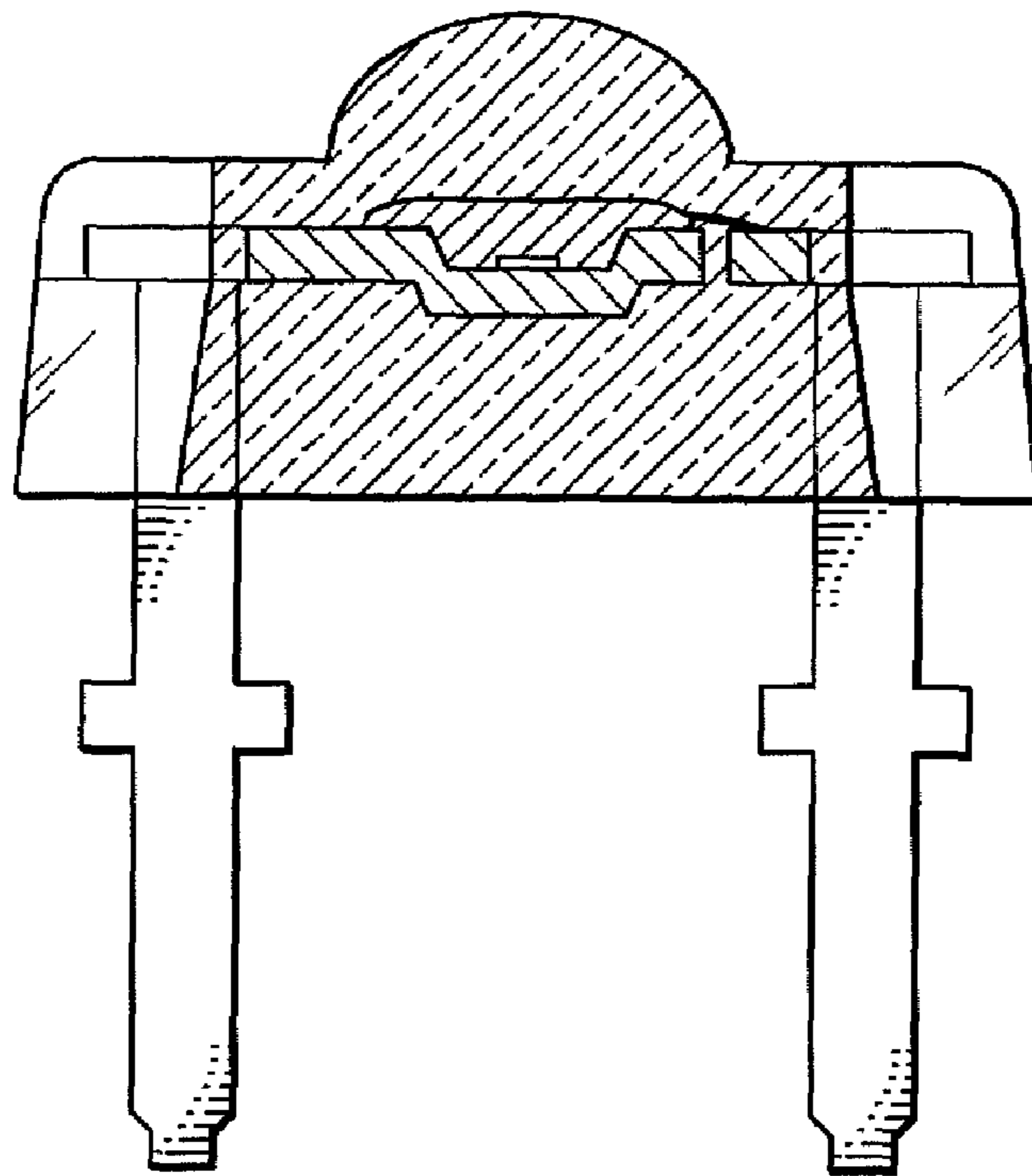


FIG. 16

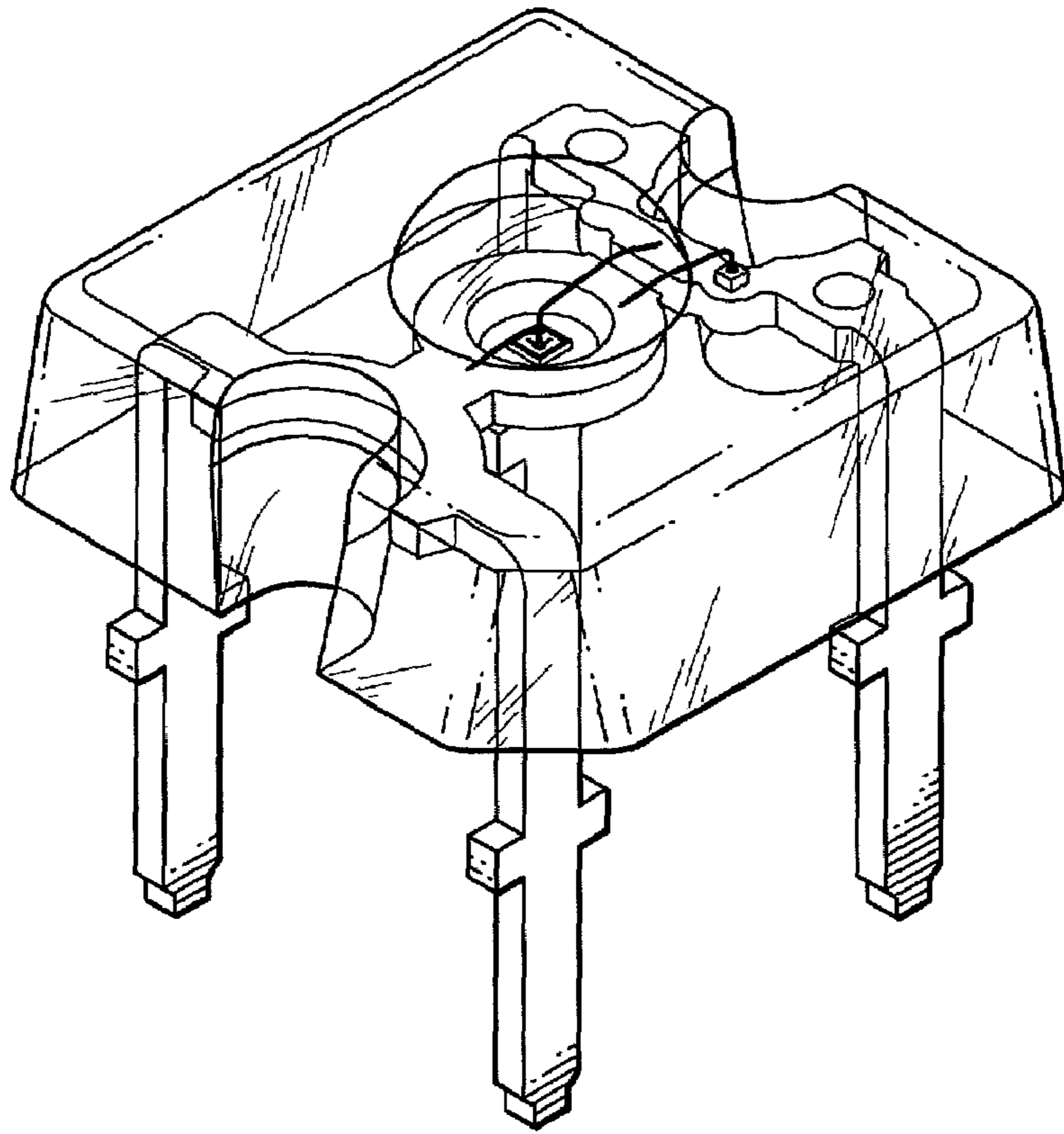


FIG. 17

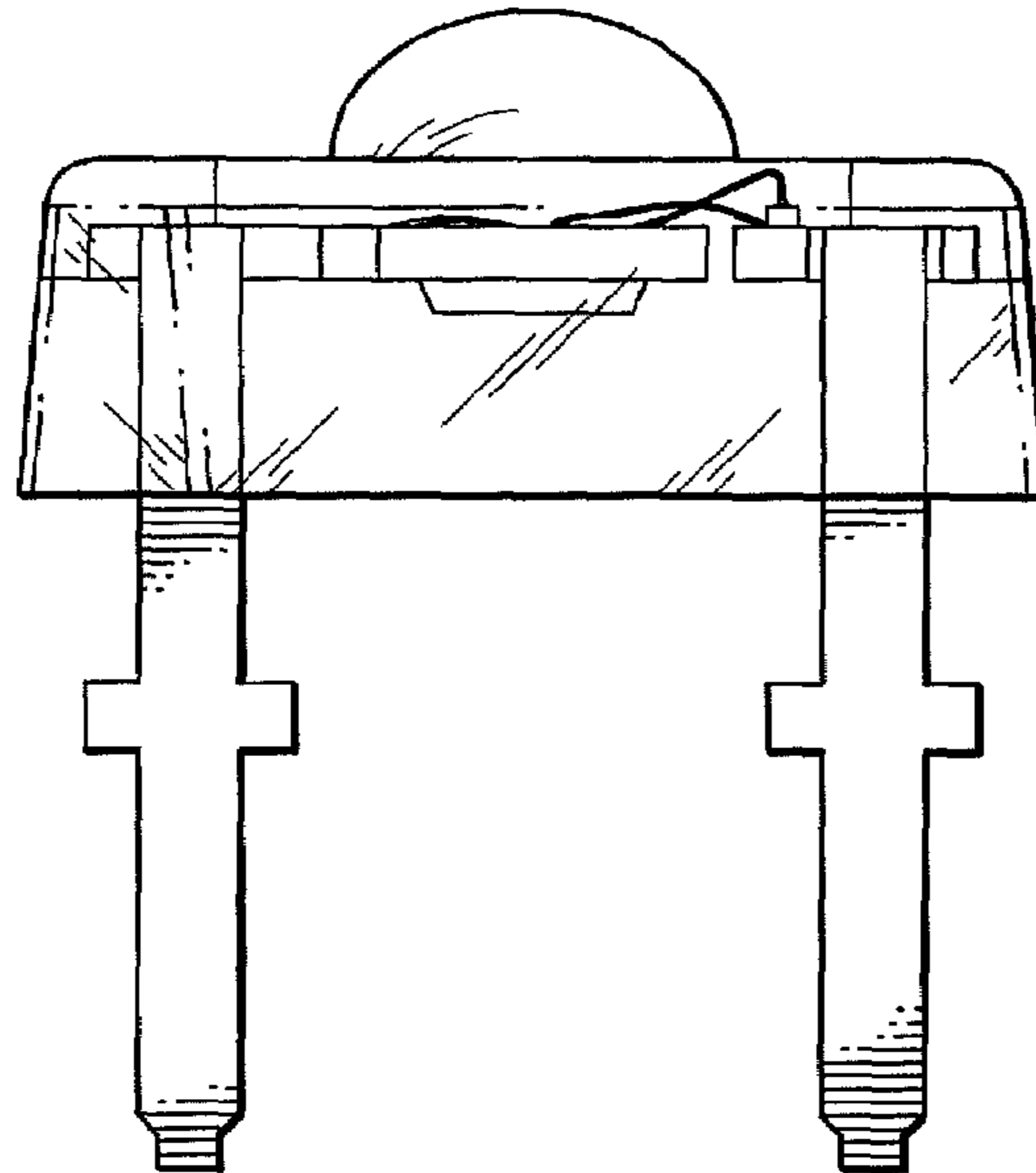


FIG. 18

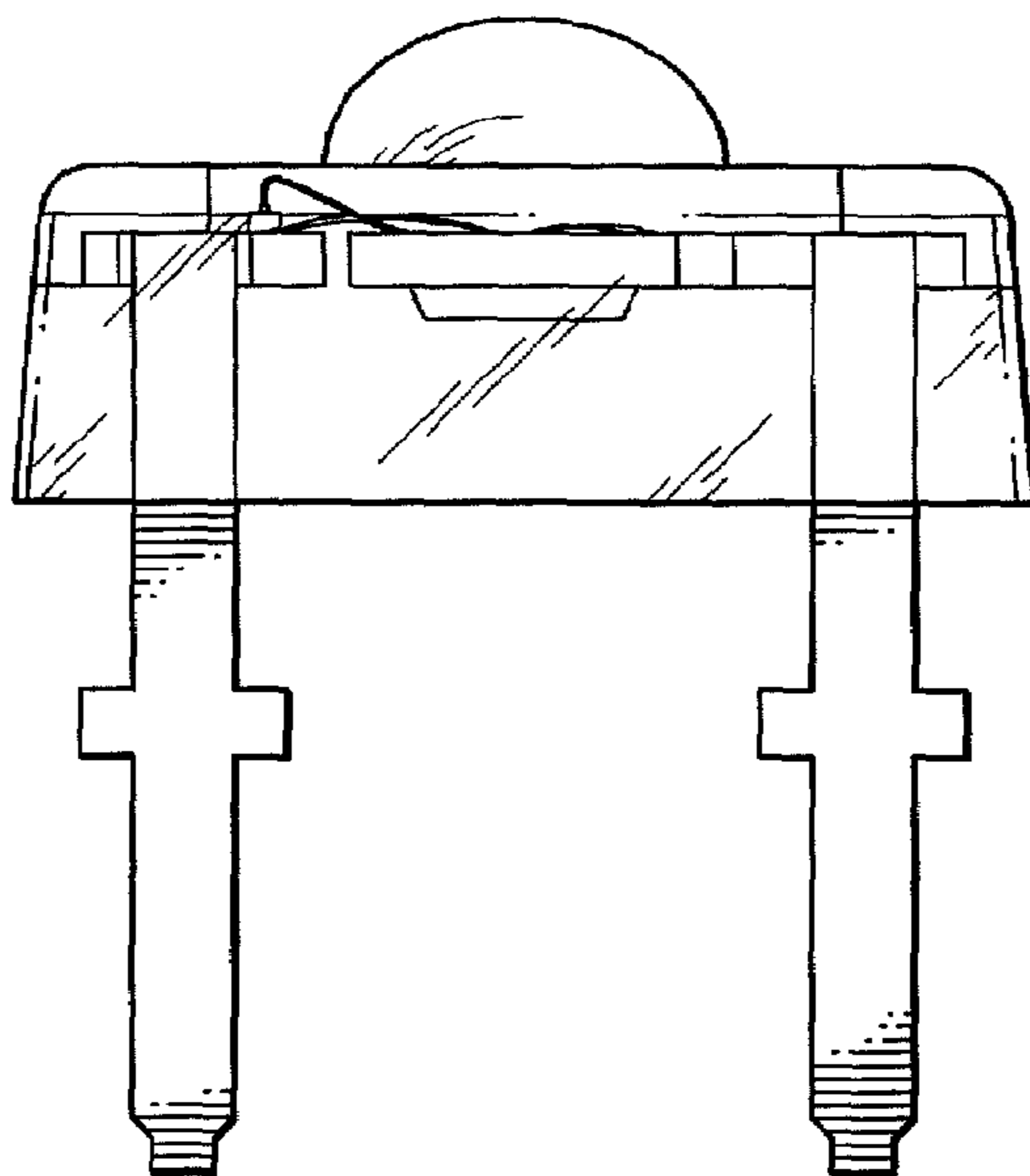


FIG. 19

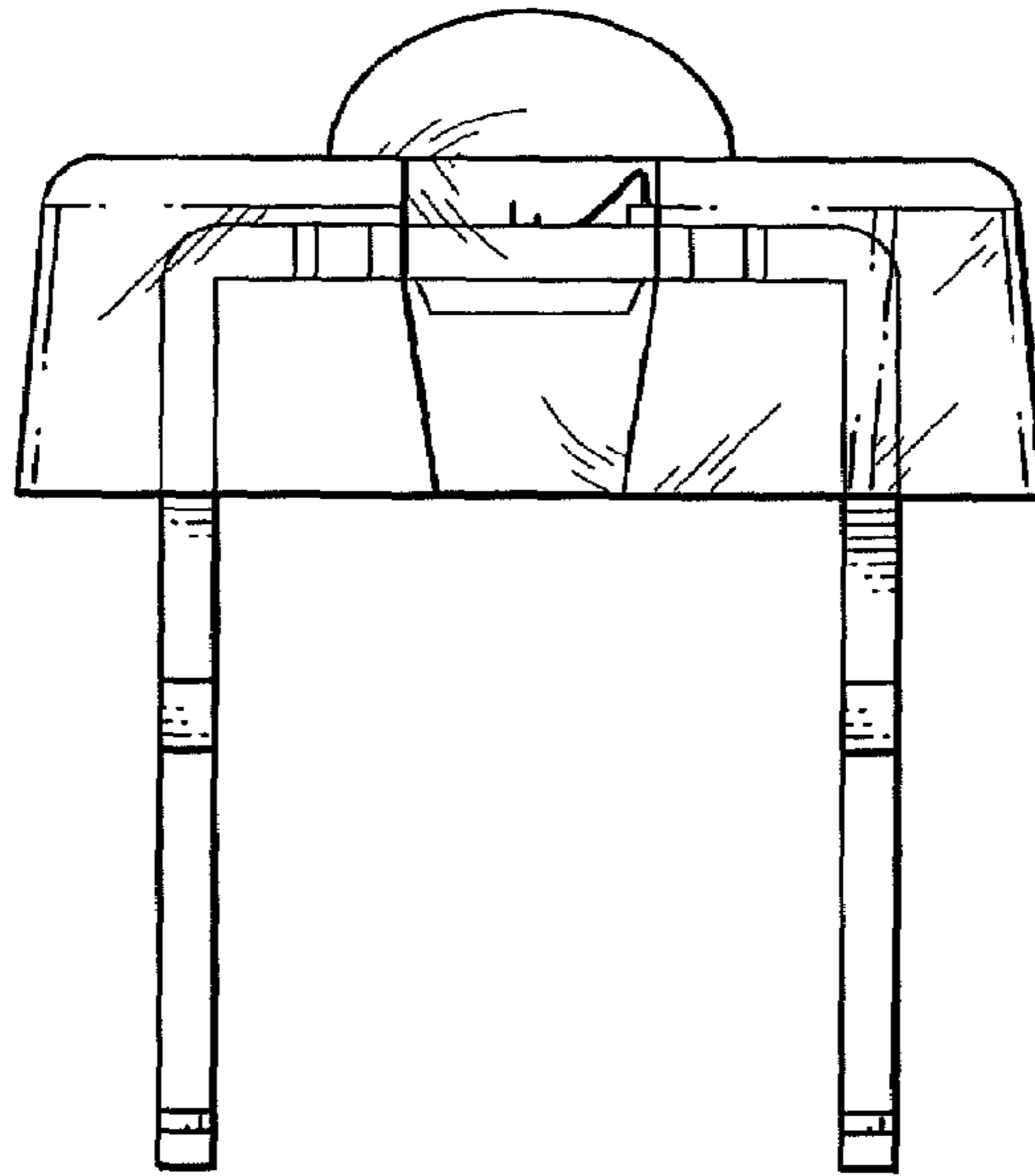


FIG. 20

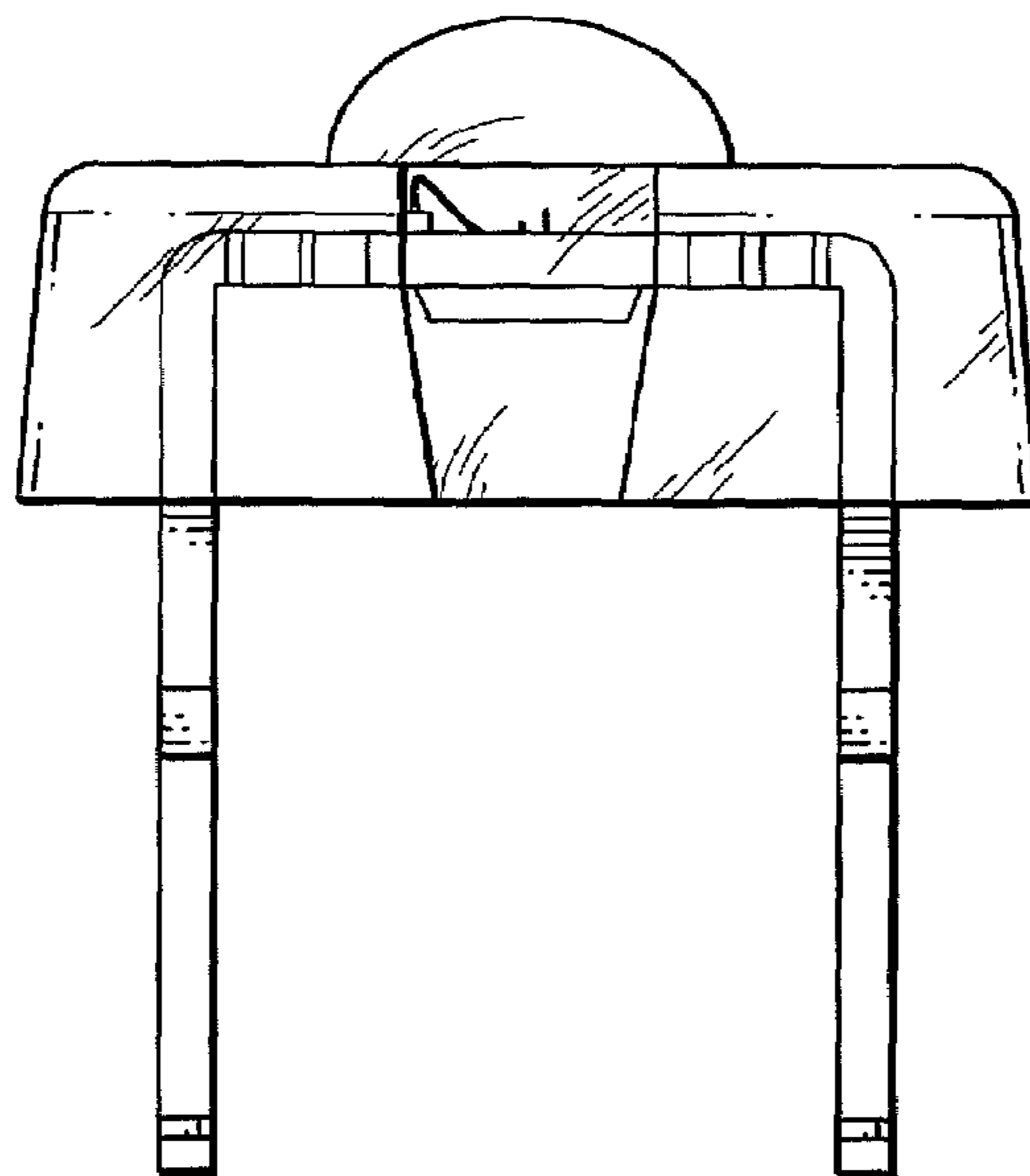


FIG. 21

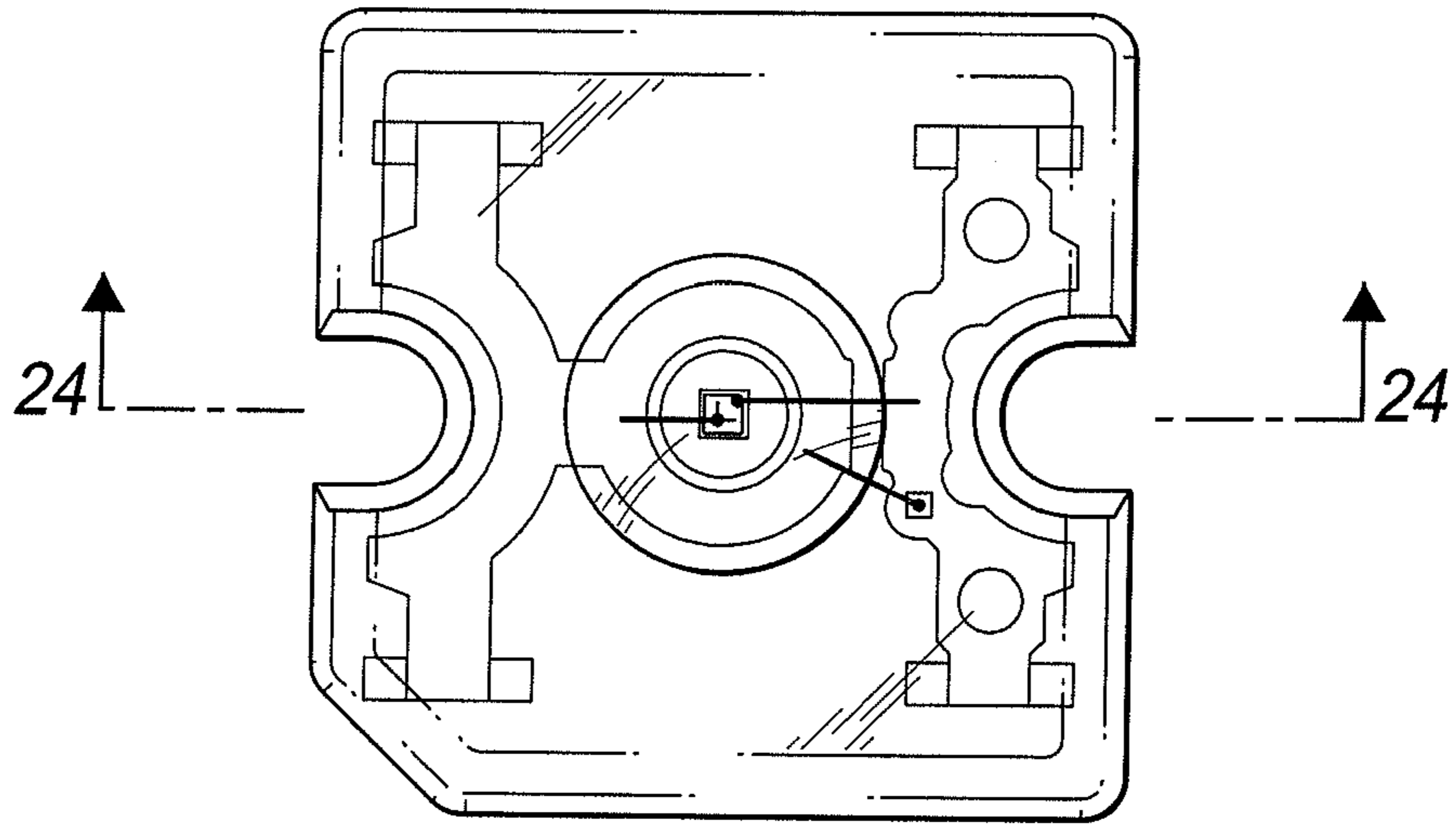


FIG. 22

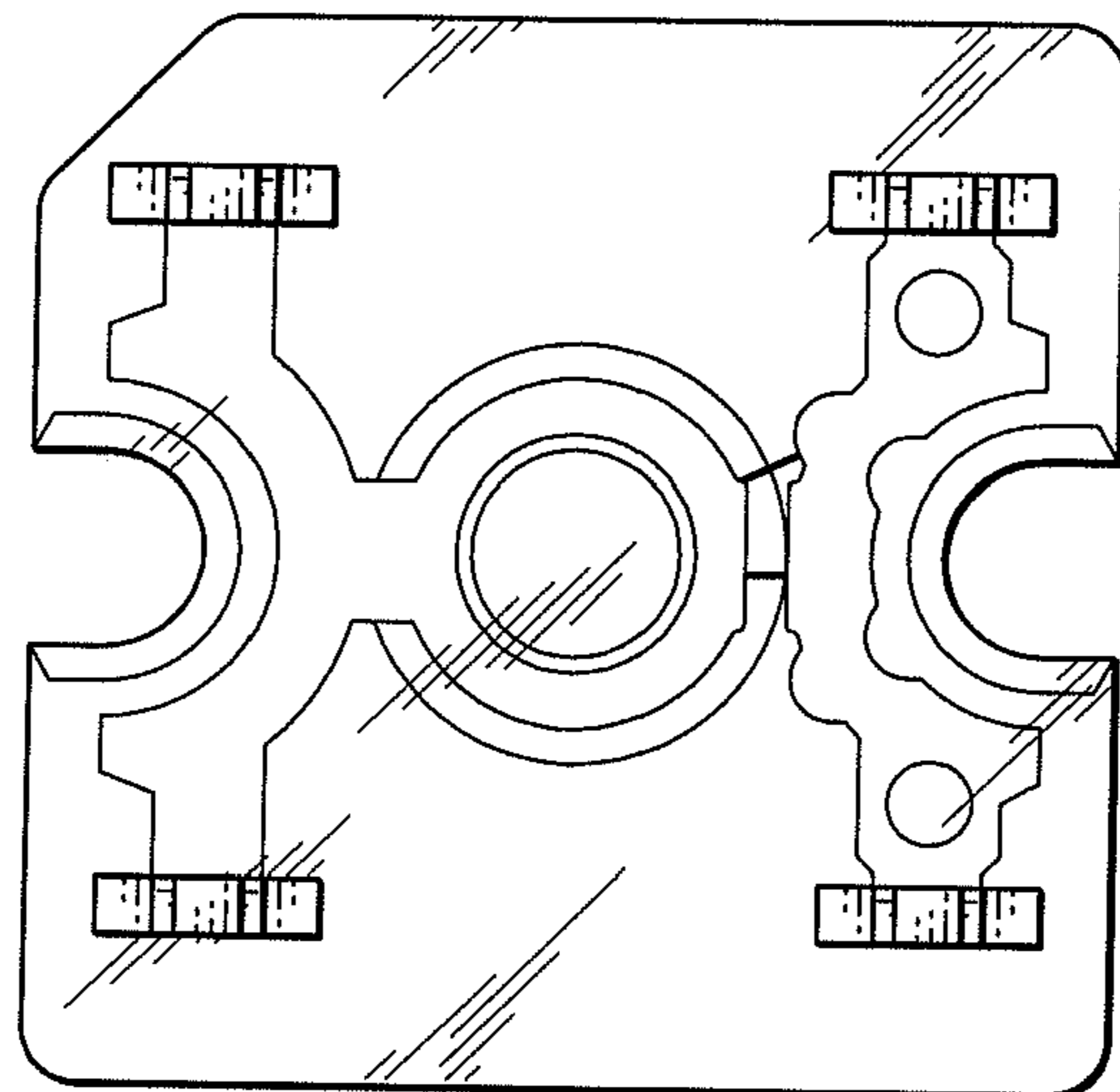


FIG. 23

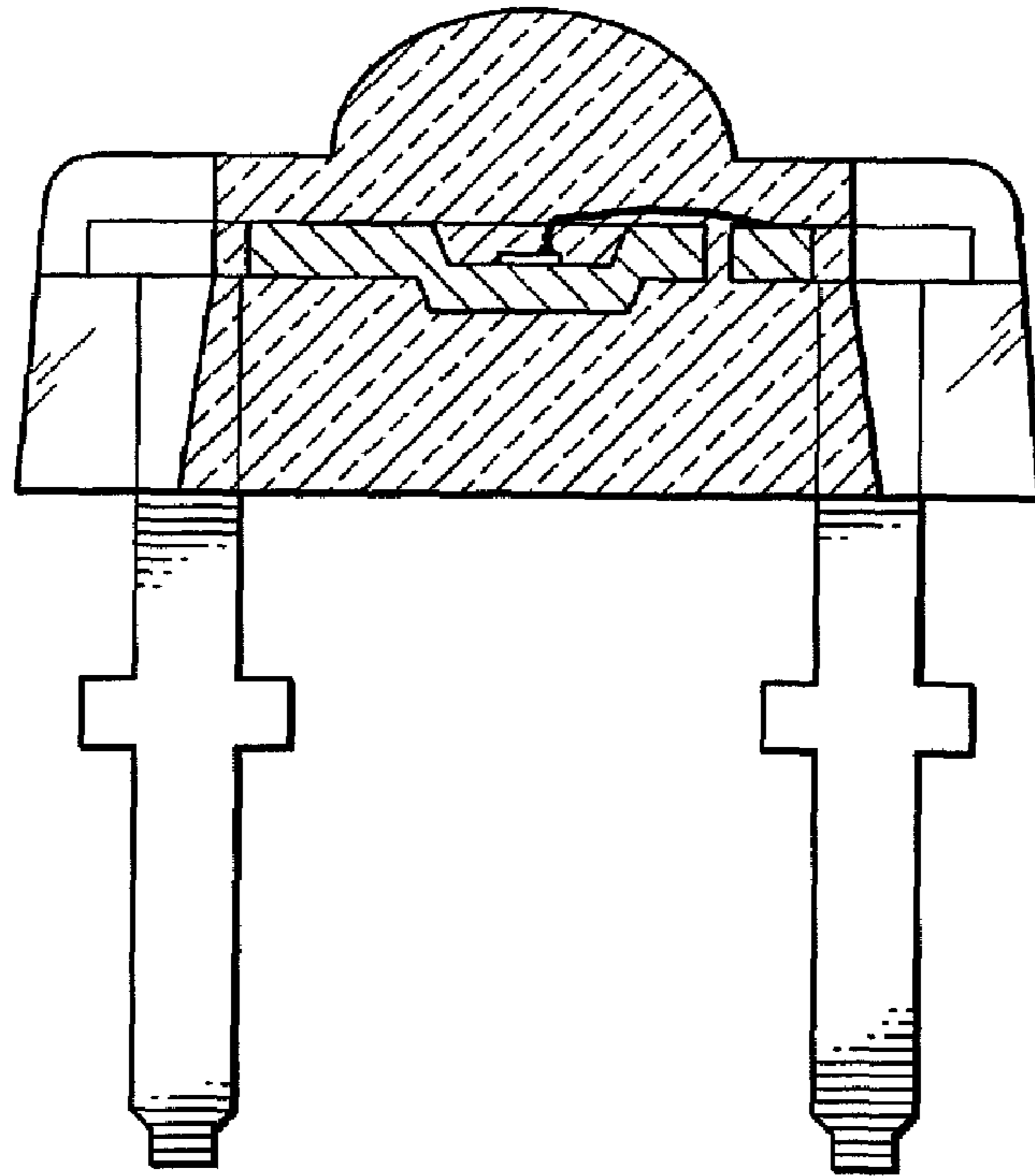


FIG. 24

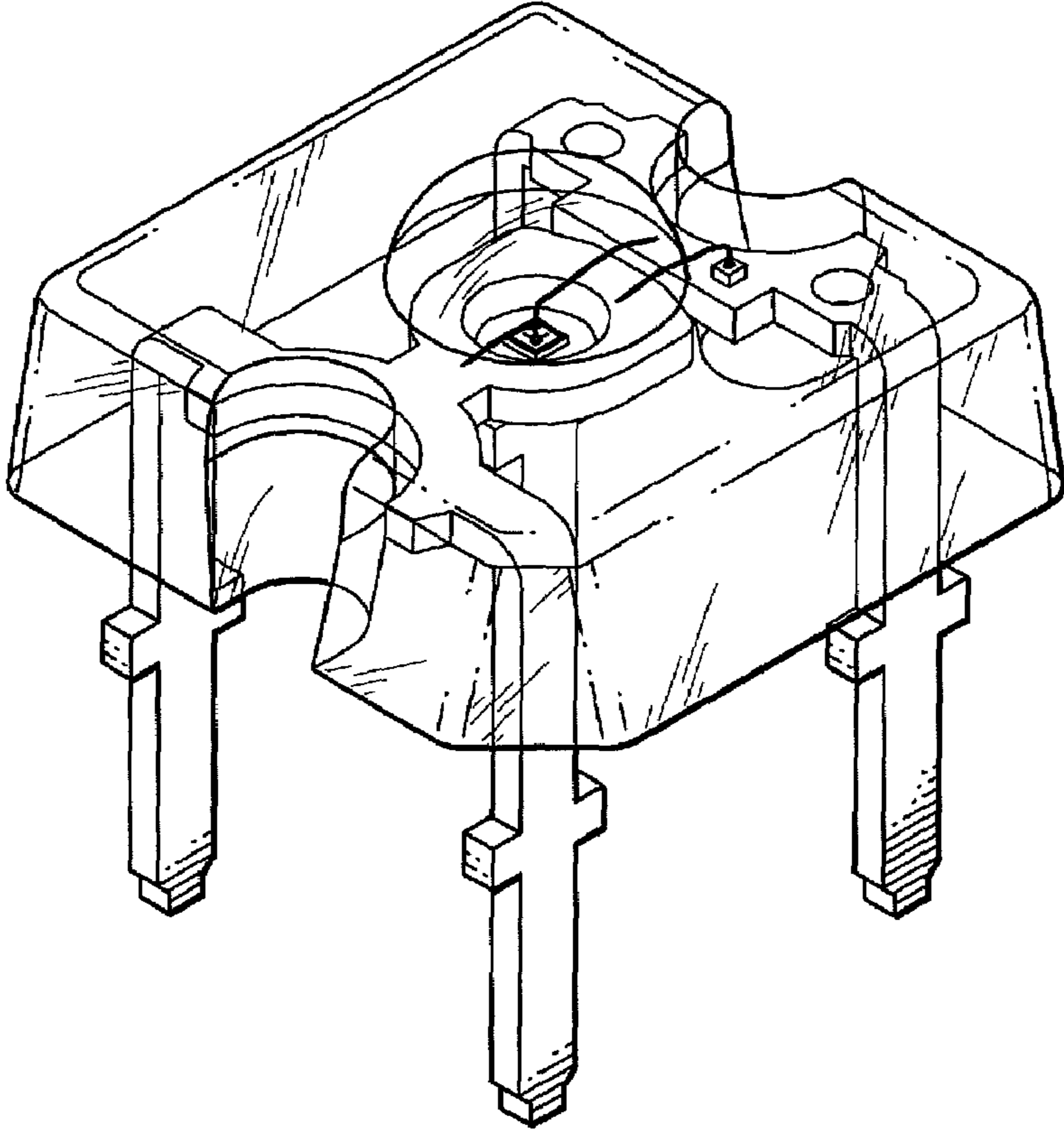


FIG. 25

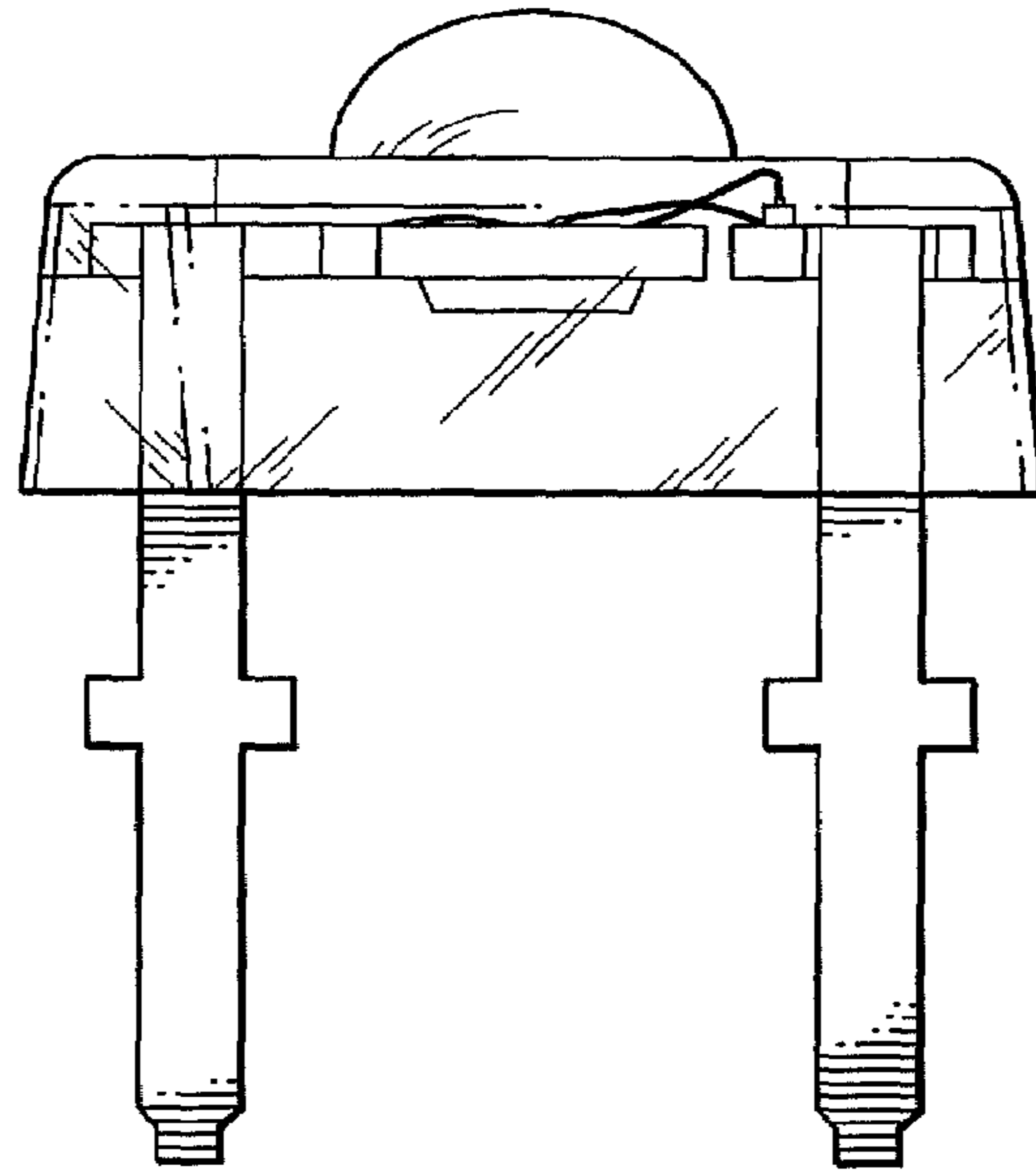


FIG. 26

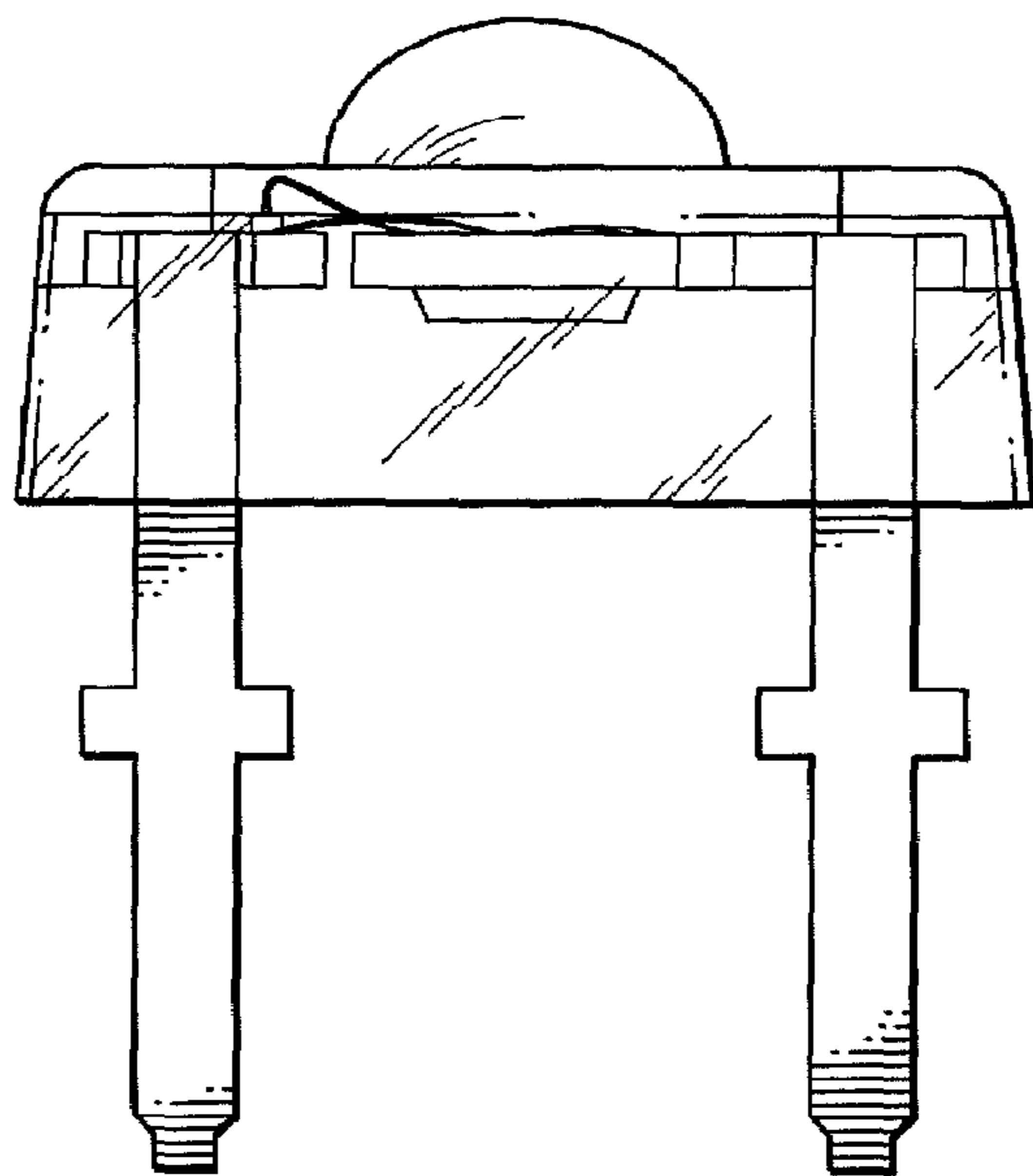


FIG. 27

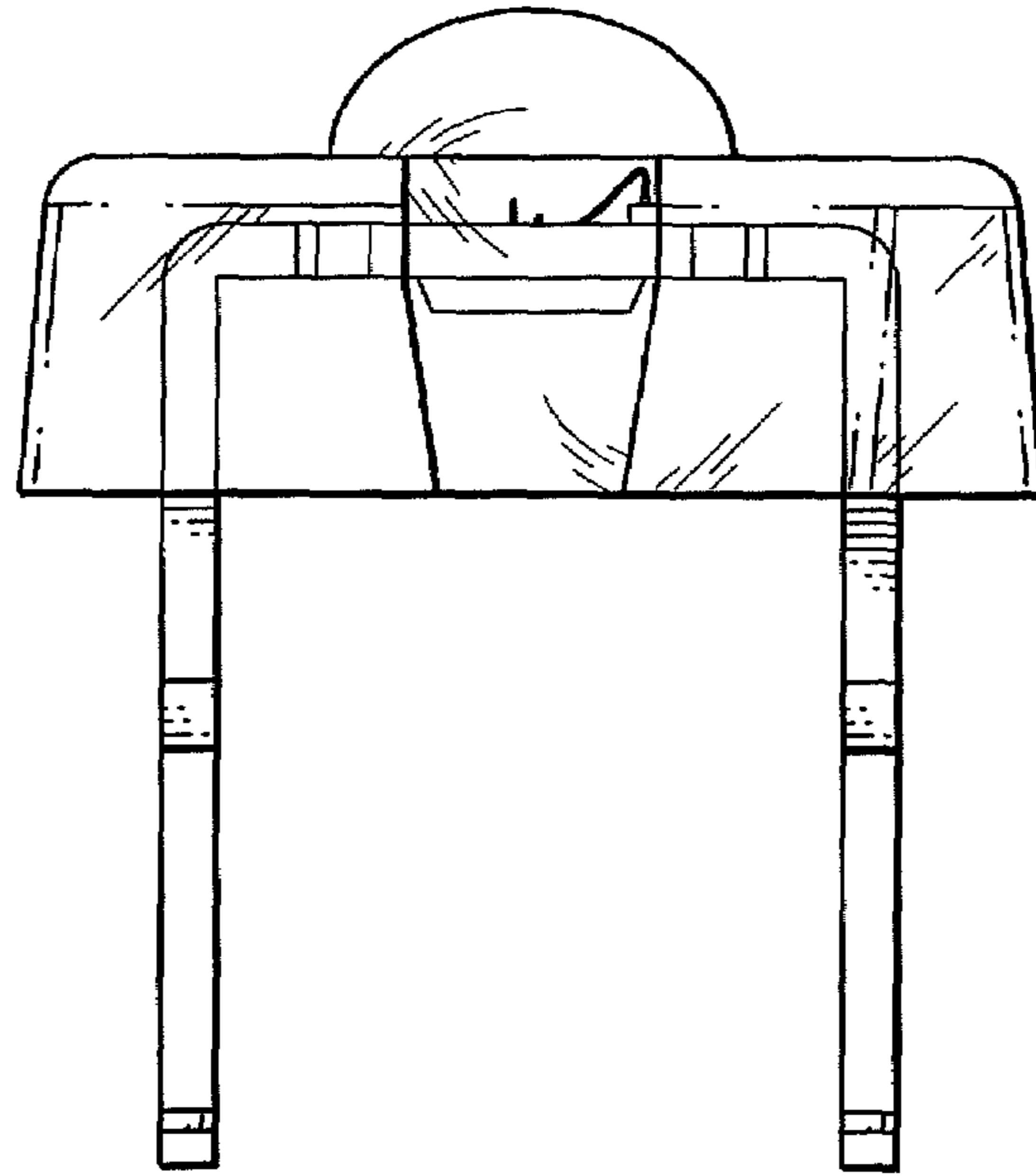


FIG. 28

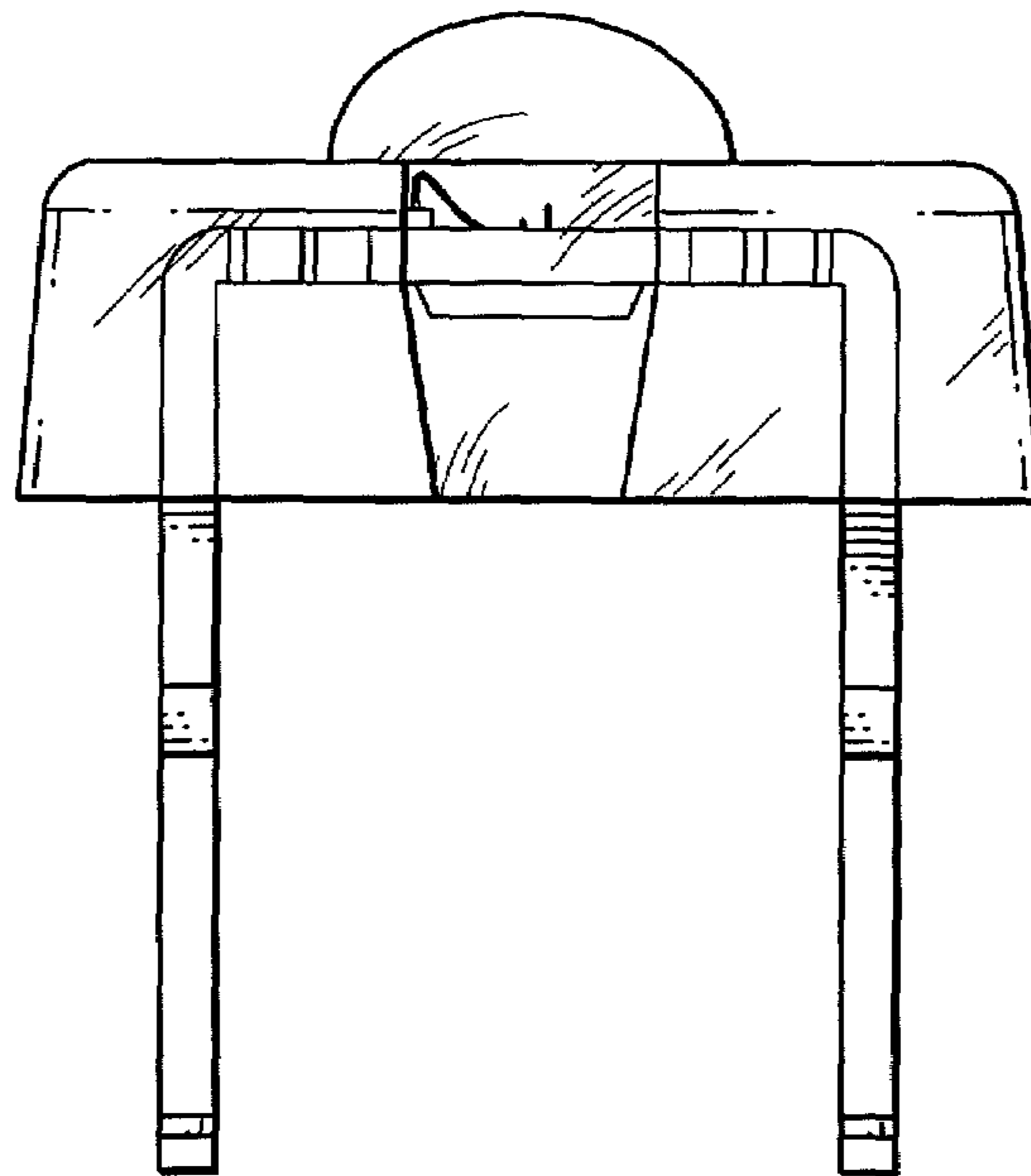


FIG. 29

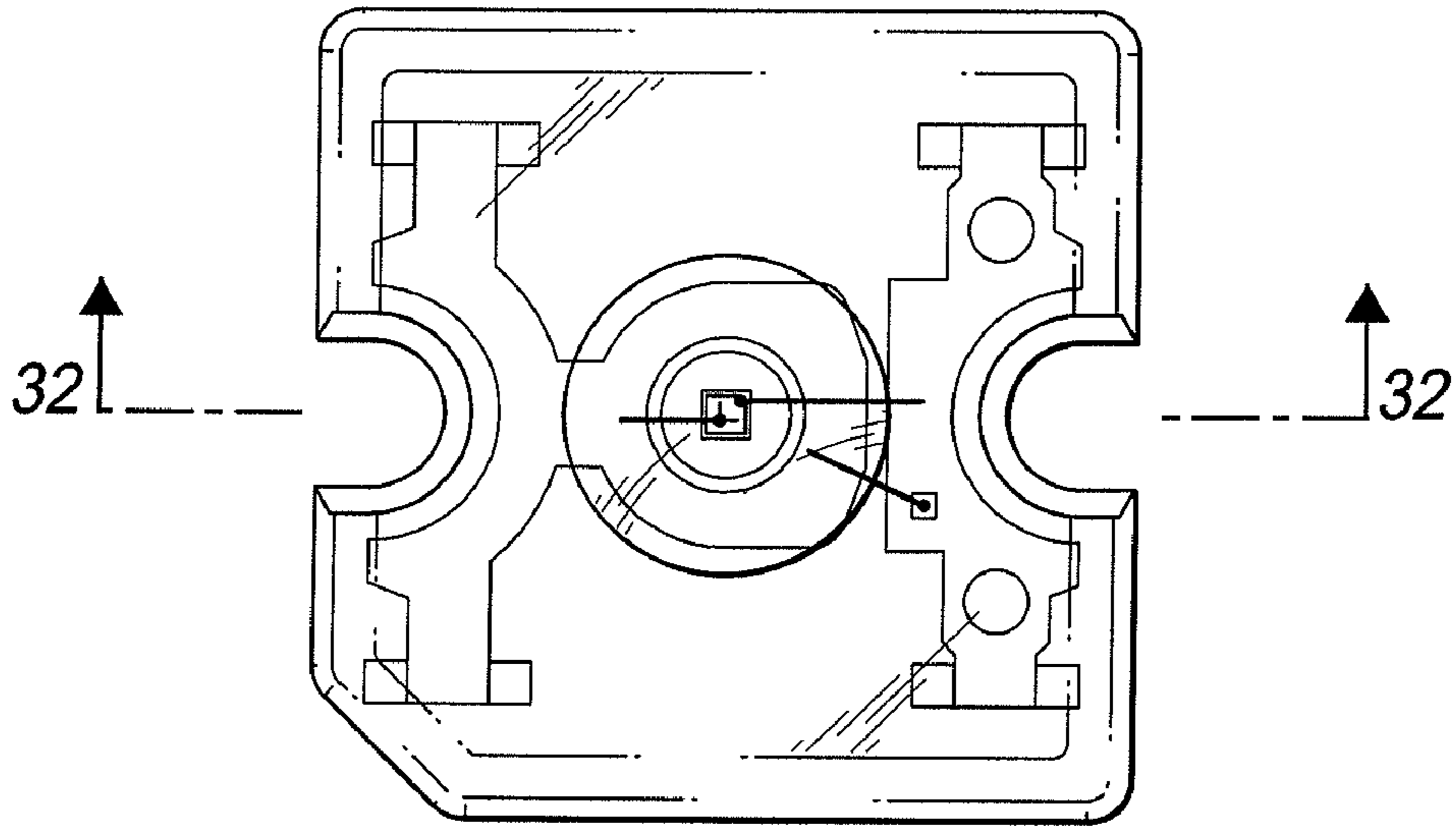


FIG. 30

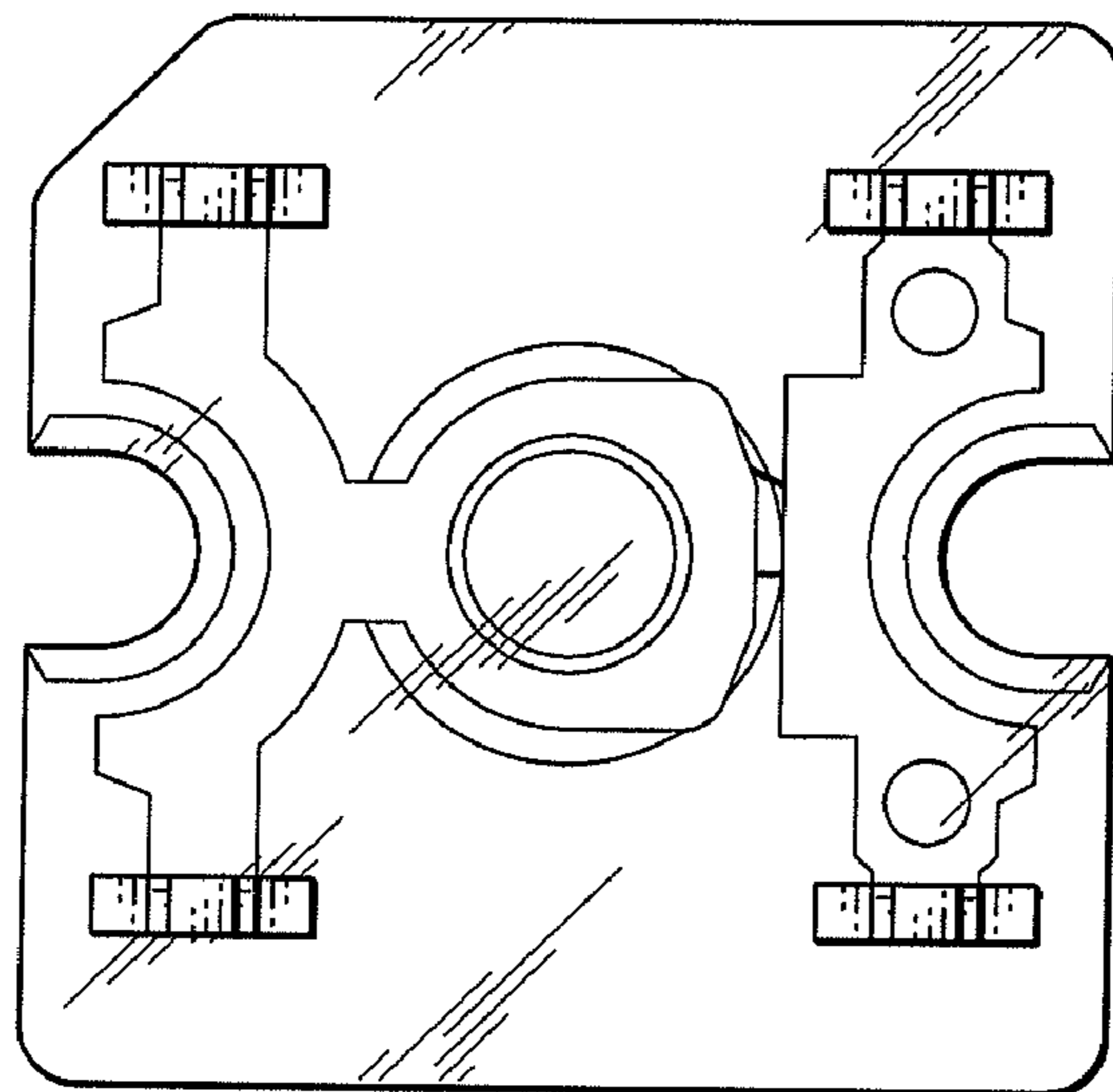


FIG. 31

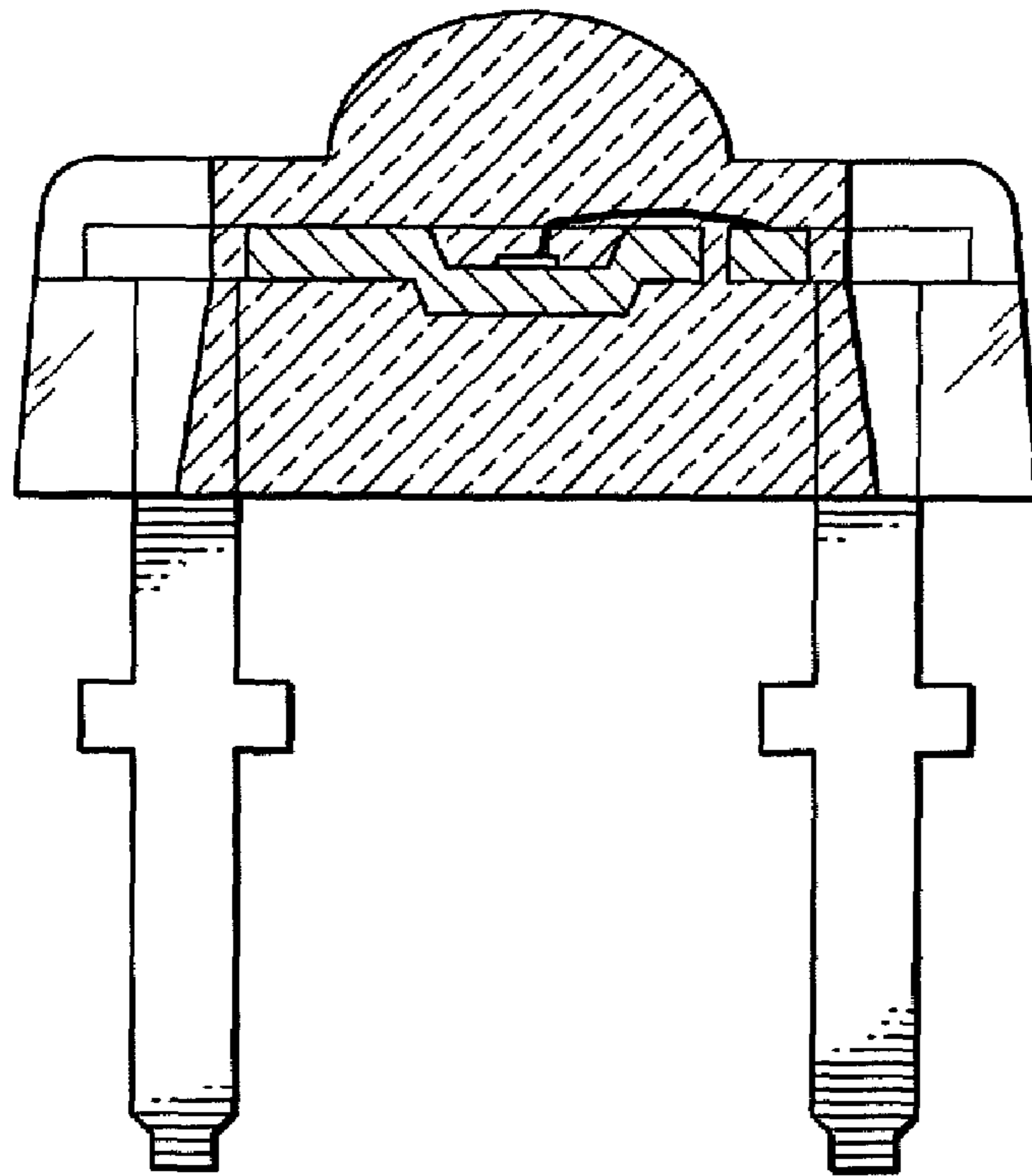


FIG. 32