

US00D572671S

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

(10) **Patent No.:** **US D572,671 S**
(45) **Date of Patent:** **** Jul. 8, 2008**

(54) **LIGHT EMITTING DIODE**

(57) **CLAIM**

(75) Inventors: **Satoshi Okada**, Anan (JP); **Yuji Satake**,
Anan (JP)

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

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

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

DESCRIPTION

(21) Appl. No.: **29/266,468**

(22) Filed: **Sep. 22, 2006**

(30) **Foreign Application Priority Data**

| | | | |
|---------------|------|-------|-------------|
| Mar. 30, 2006 | (JP) | ..... | 2006-008060 |
| Mar. 30, 2006 | (JP) | ..... | 2006-008062 |
| Mar. 30, 2006 | (JP) | ..... | 2006-008077 |
| Mar. 30, 2006 | (JP) | ..... | 2006-008078 |
| Mar. 30, 2006 | (JP) | ..... | 2006-008079 |
| Mar. 30, 2006 | (JP) | ..... | 2006-008080 |

(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

| | | | | | |
|--------------|------|---------|-----------------|-------|---------|
| 6,429,464 | B1 * | 8/2002 | Lin | ..... | 257/99 |
| D524,260 | S * | 7/2006 | Ishizaka et al. | ..... | D13/180 |
| 7,224,000 | B2 * | 5/2007 | Aanegola et al. | ..... | 257/98 |
| 7,262,438 | B2 * | 8/2007 | Mok et al. | ..... | 257/98 |
| 2004/0041222 | A1 * | 3/2004 | Loh | ..... | 257/433 |
| 2005/0045903 | A1 * | 3/2005 | Abe et al. | ..... | 257/100 |
| 2006/0001361 | A1 * | 1/2006 | Imai et al. | ..... | 313/498 |
| 2006/0273338 | A1 * | 12/2006 | Lee et al. | ..... | 257/99 |

* cited by examiner

Primary Examiner—Selina Sikder

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

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 top plan view of the light emitting diode in accordance with the first embodiment of my new design;

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

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

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

FIG. 6 is a left side end elevational view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 7 is a right side end elevational view of the light emitting diode in accordance with the first embodiment of my new design;

FIG. 8 is a front top side perspective view of a light emitting diode in accordance with a second embodiment of my new design;

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

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

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

FIG. 12 is a rear 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;

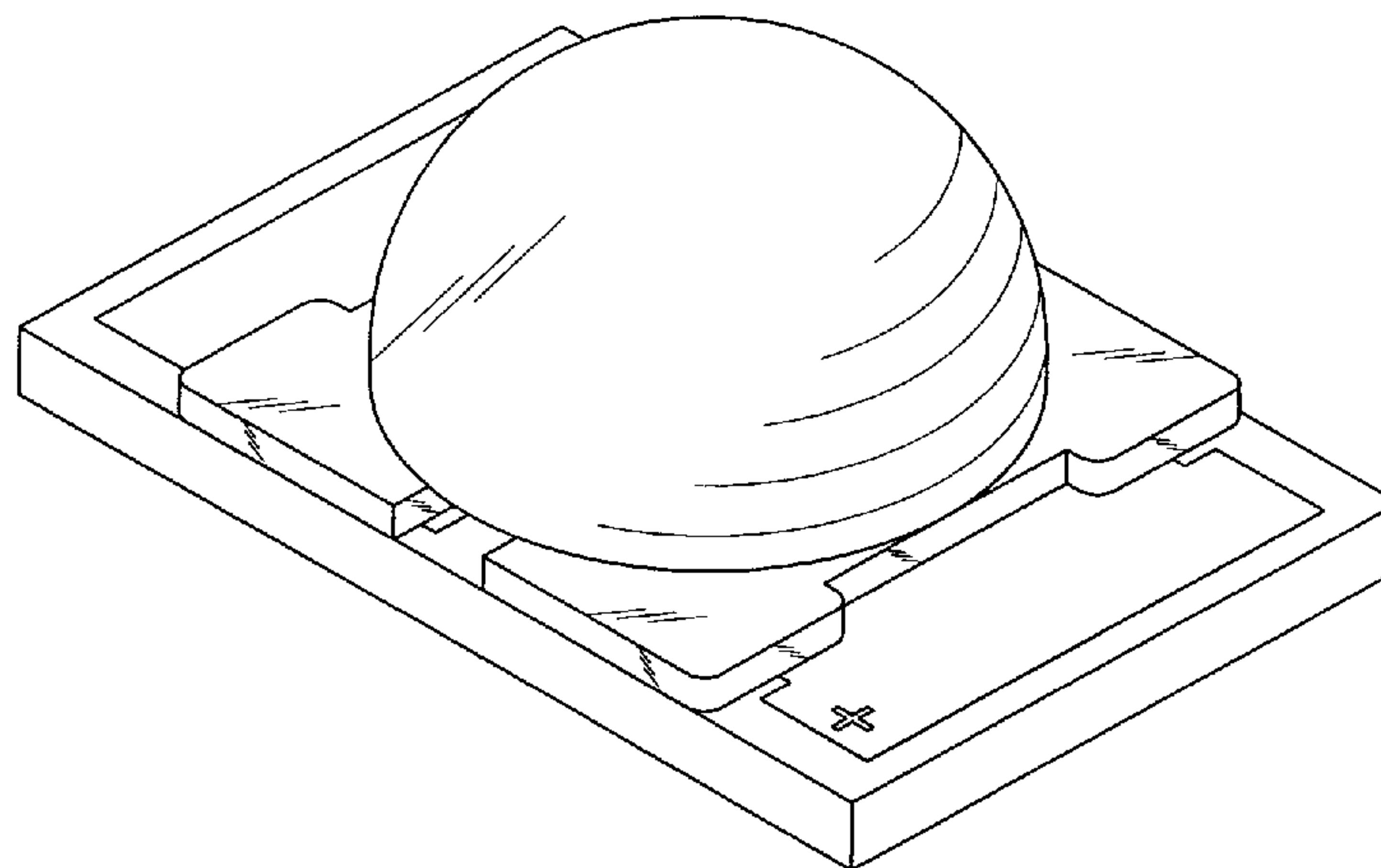


FIG. 14 is a right side end elevational view of the light emitting diode in accordance with the second embodiment of my new design;

FIG. 15 is a front top side perspective view of a light emitting diode in accordance with a third embodiment of my new design;

FIG. 16 is a top plan view of the light emitting diode in accordance with the third embodiment of my new design;

FIG. 17 is a bottom plan view of the light emitting diode in accordance with the 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 left side end elevational view of the light emitting diode in accordance with the third embodiment of my new design;

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

FIG. 22 is a front top side perspective view of a light emitting diode in accordance with a fourth embodiment of my new design;

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

FIG. 24 is a bottom plan view of the light emitting diode in accordance with the fourth embodiment of my new design;

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

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

FIG. 27 is a left side end elevational view of the light emitting diode in accordance with the fourth embodiment of my new design; and,

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

The broken line showing of environment (the remaining structure of the light emitting diode) in the Figures is for illustrative purposes only and forms no part of the claimed design.

The opaque line shading illustrates a translucent portion of the light emitting diode.

1 Claim, 16 Drawing Sheets

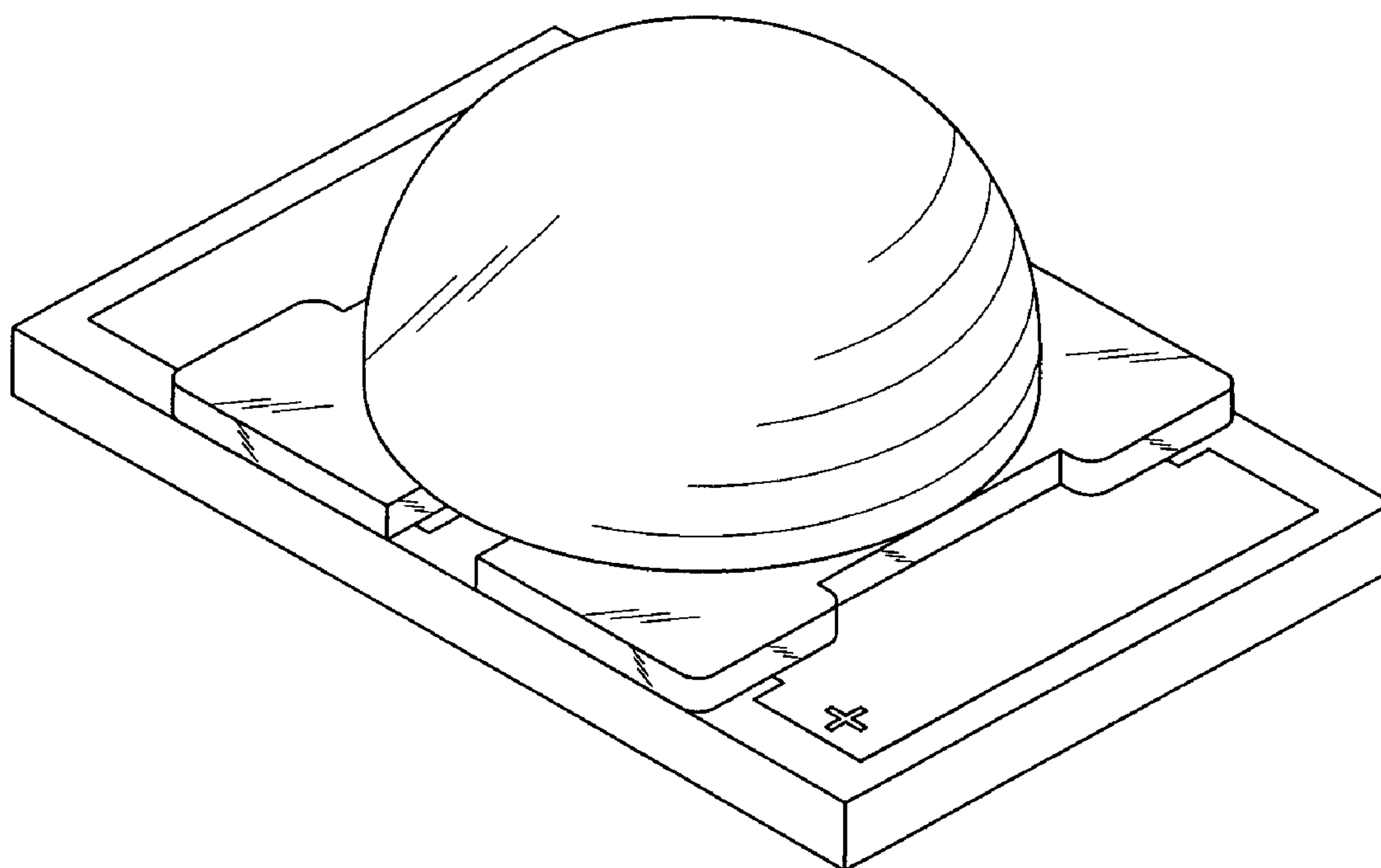


FIG. 1

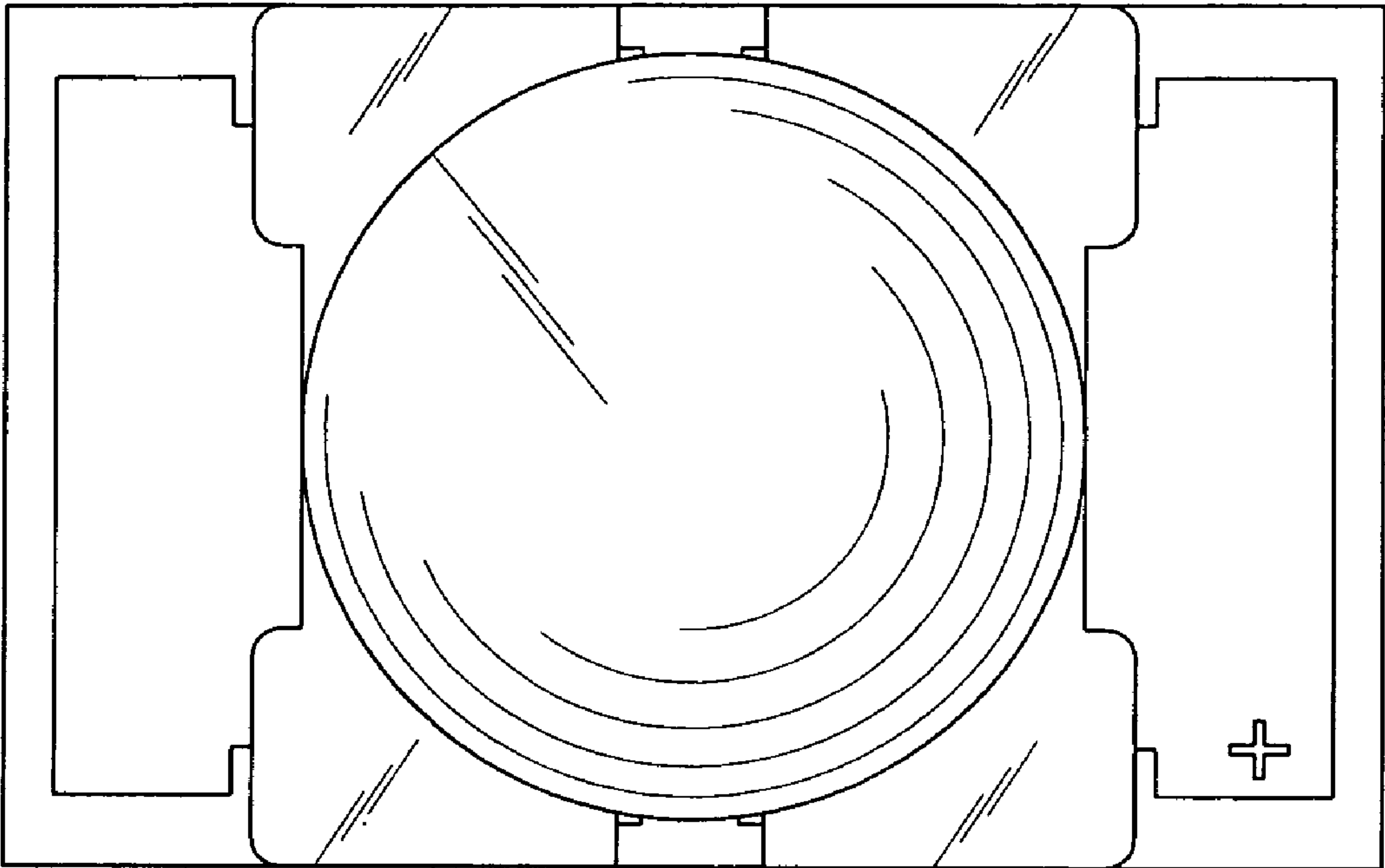


FIG. 2

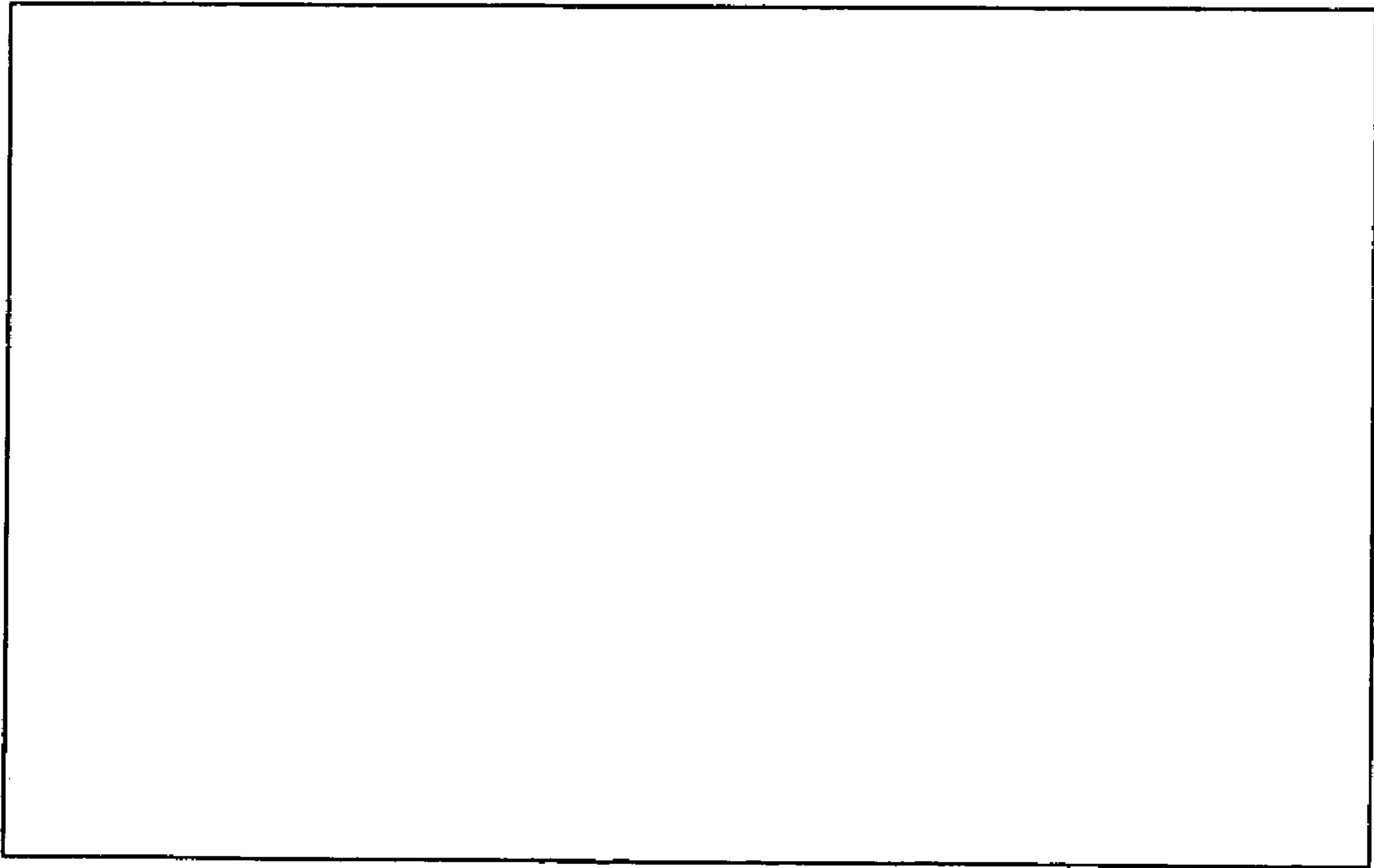


FIG. 3

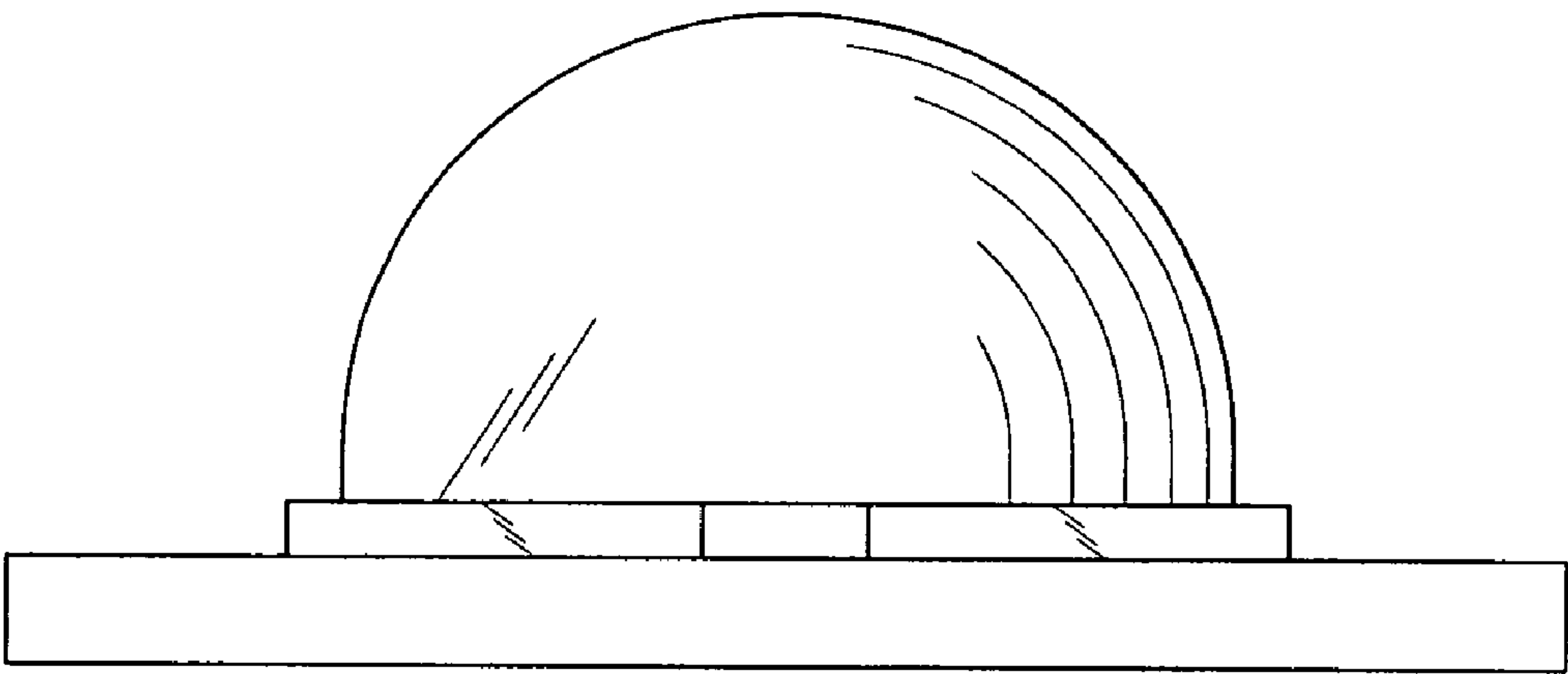


FIG. 4

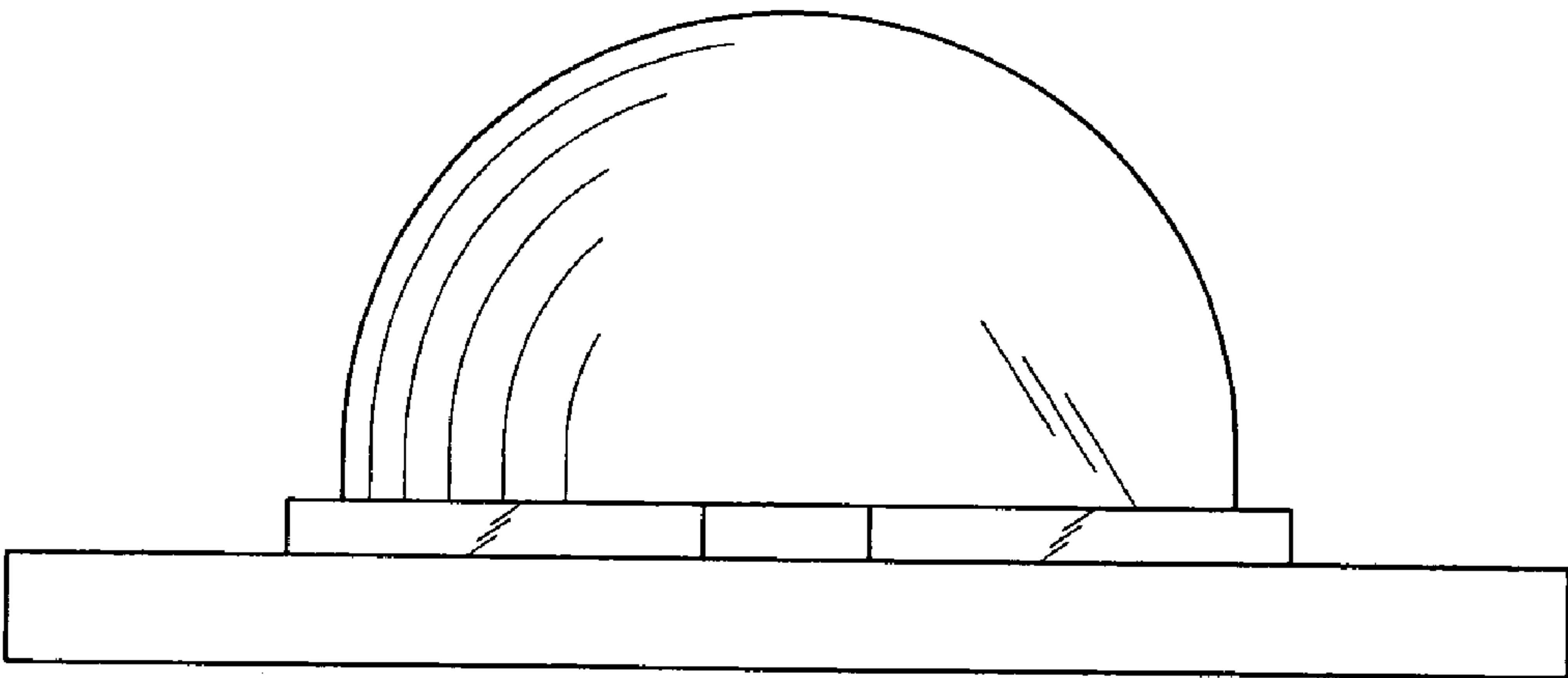


FIG. 5

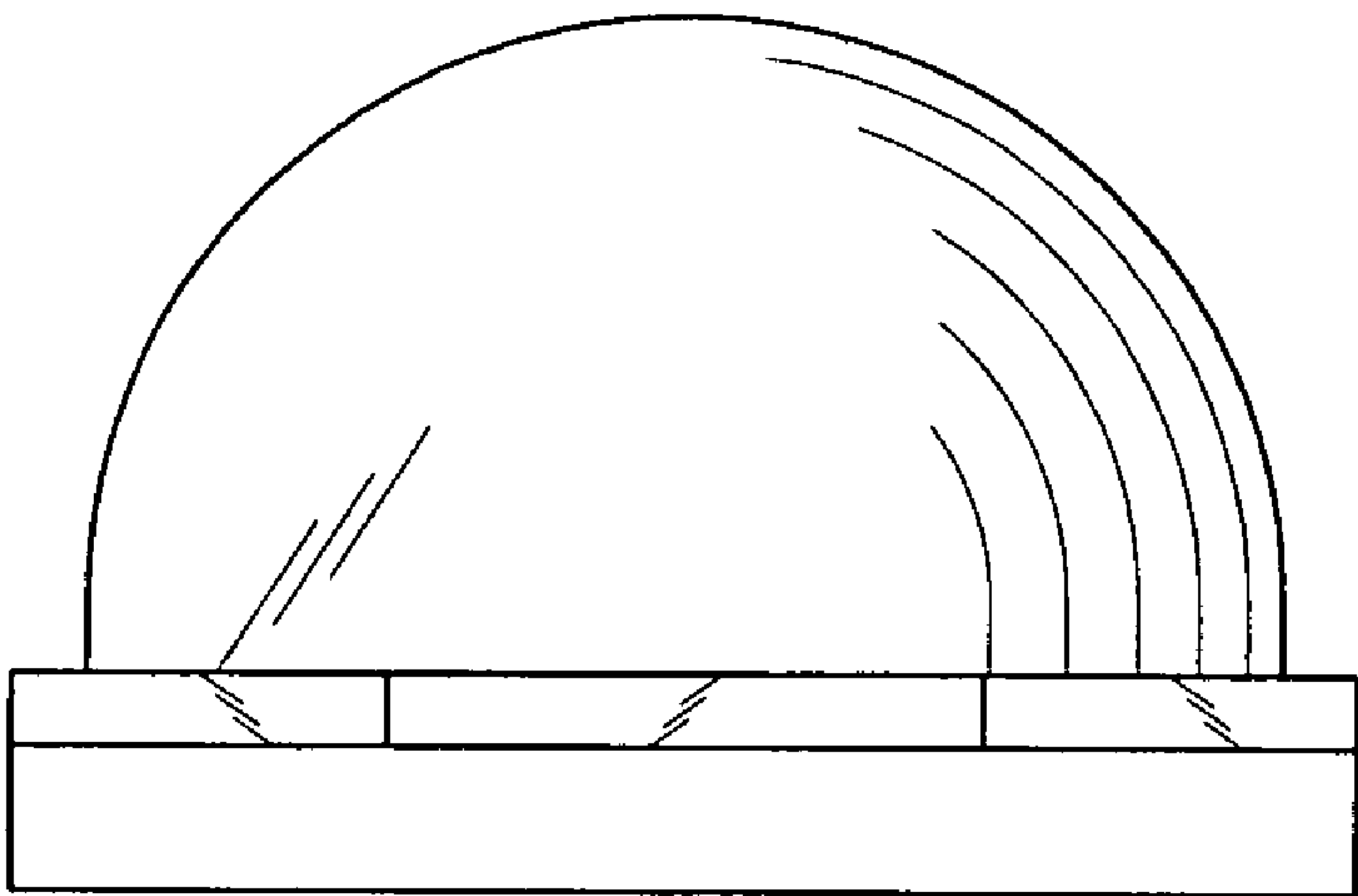


FIG. 6

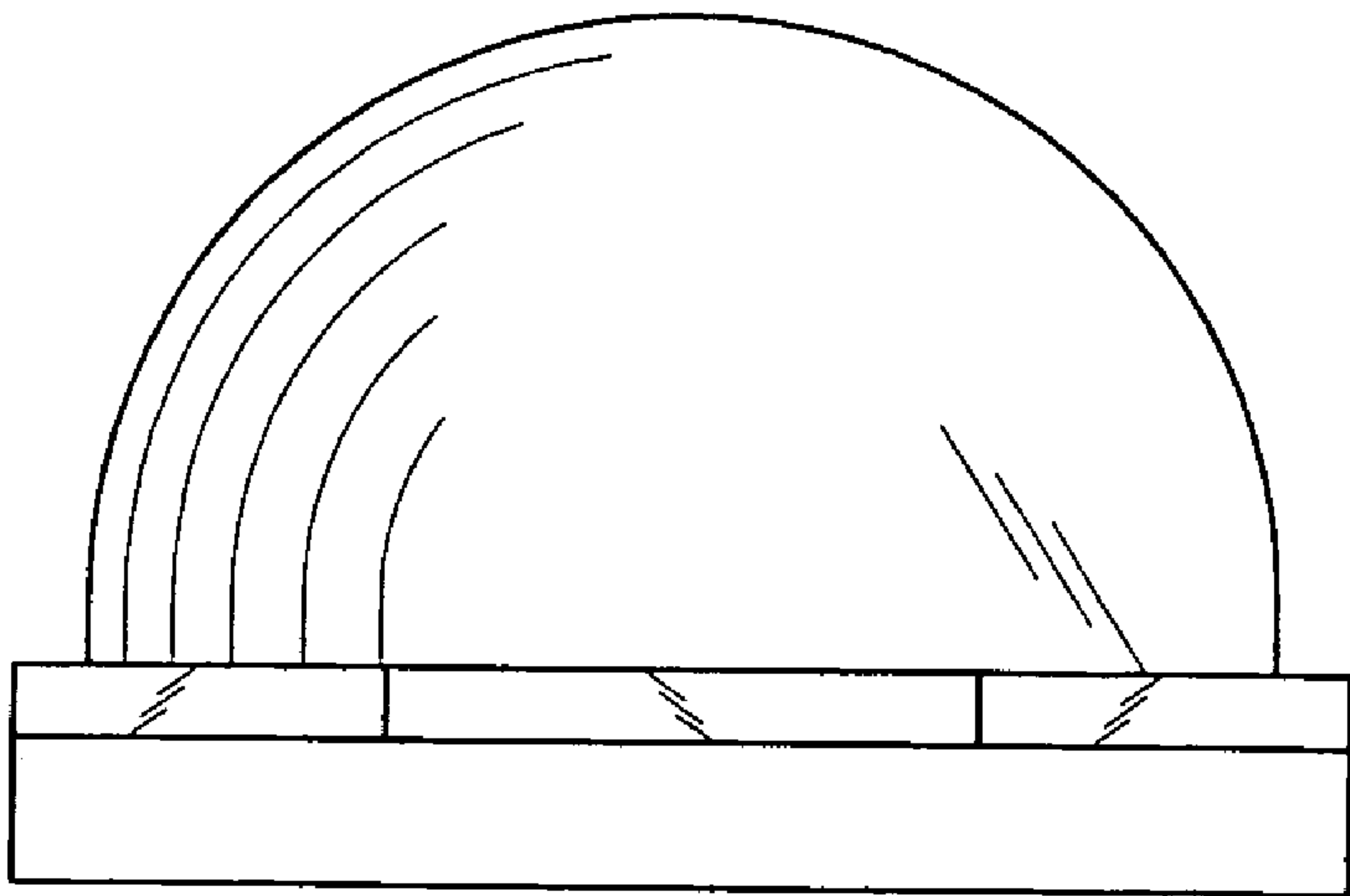


FIG. 7

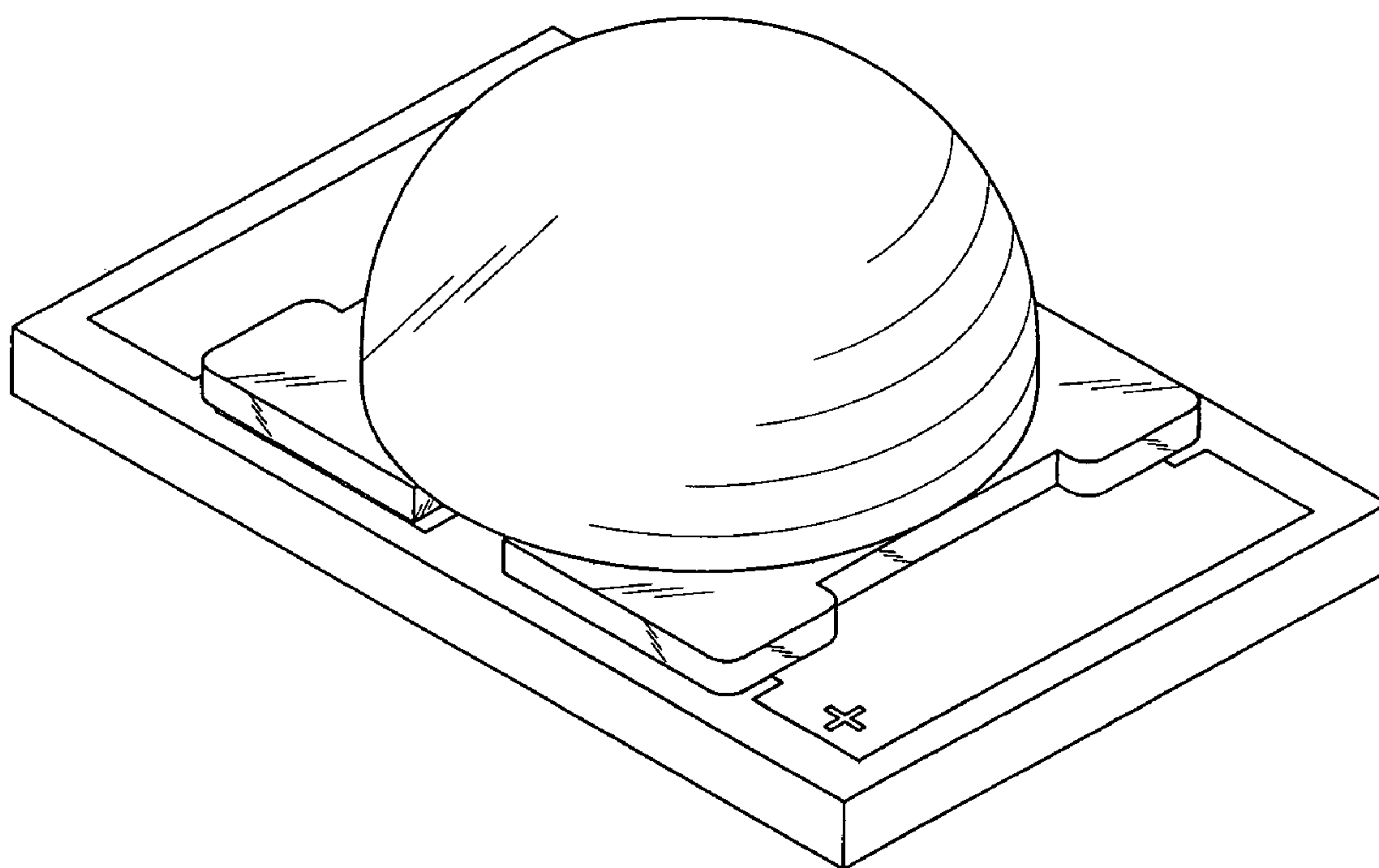


FIG. 8

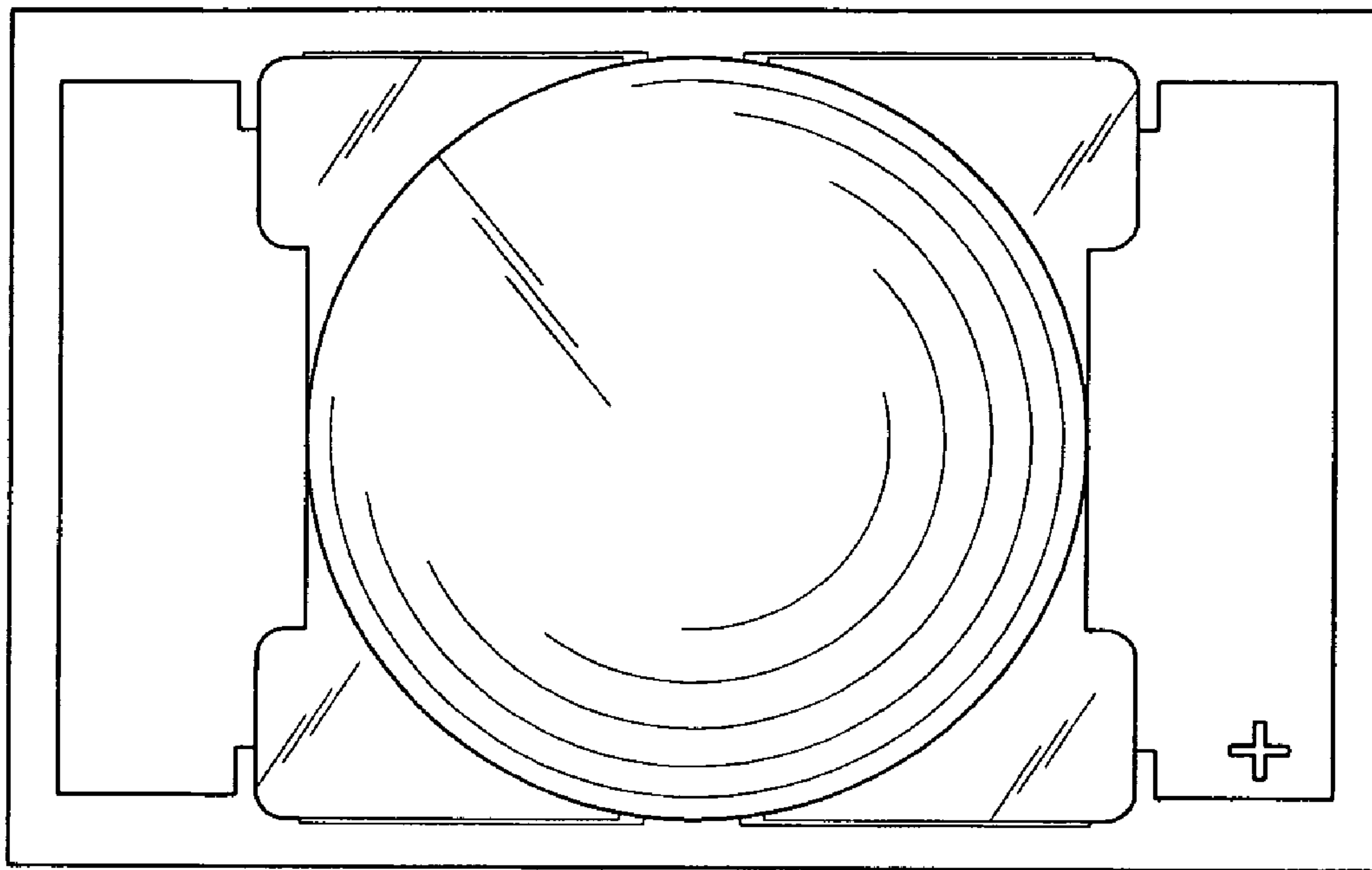


FIG. 9

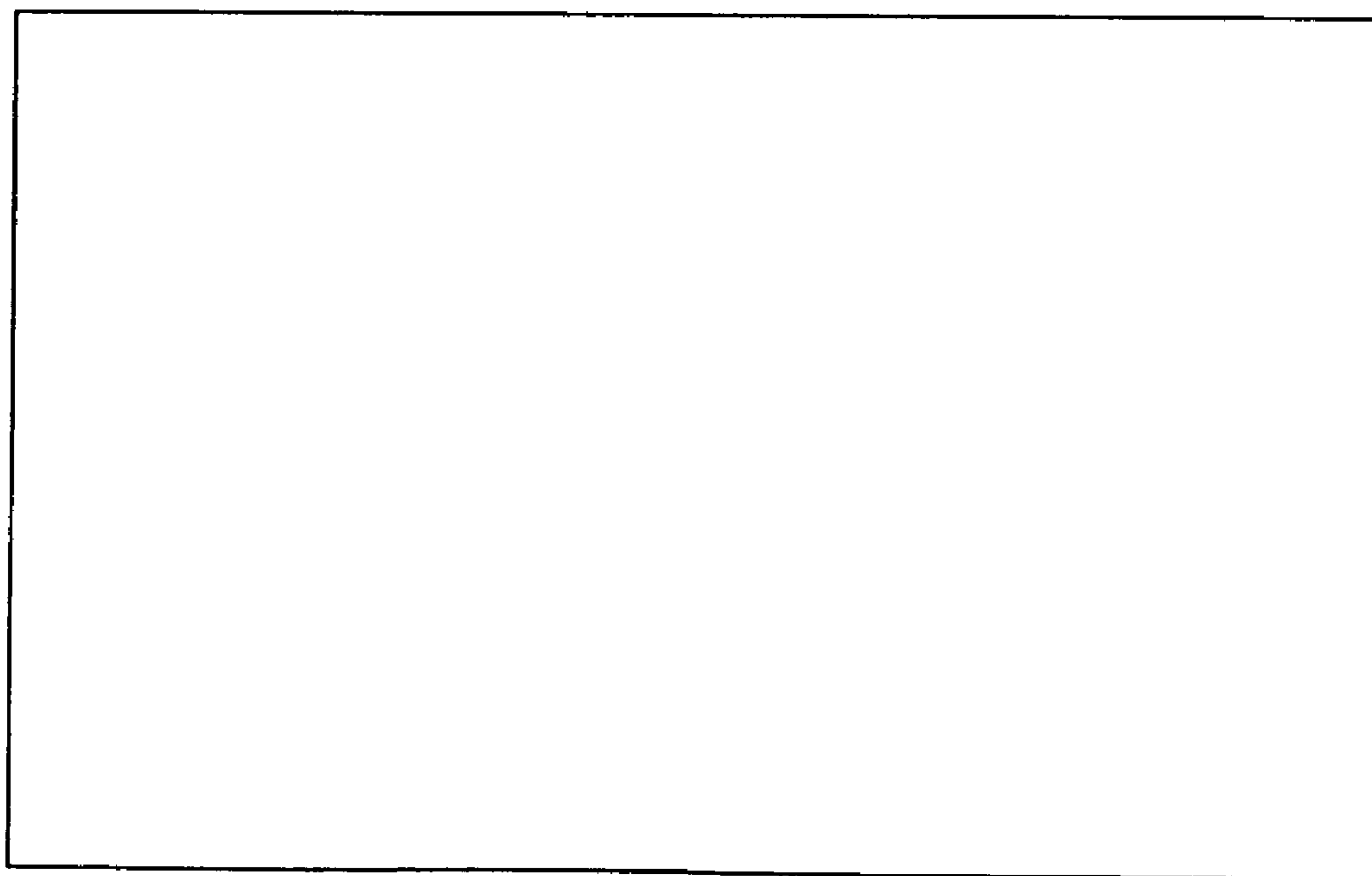


FIG. 10

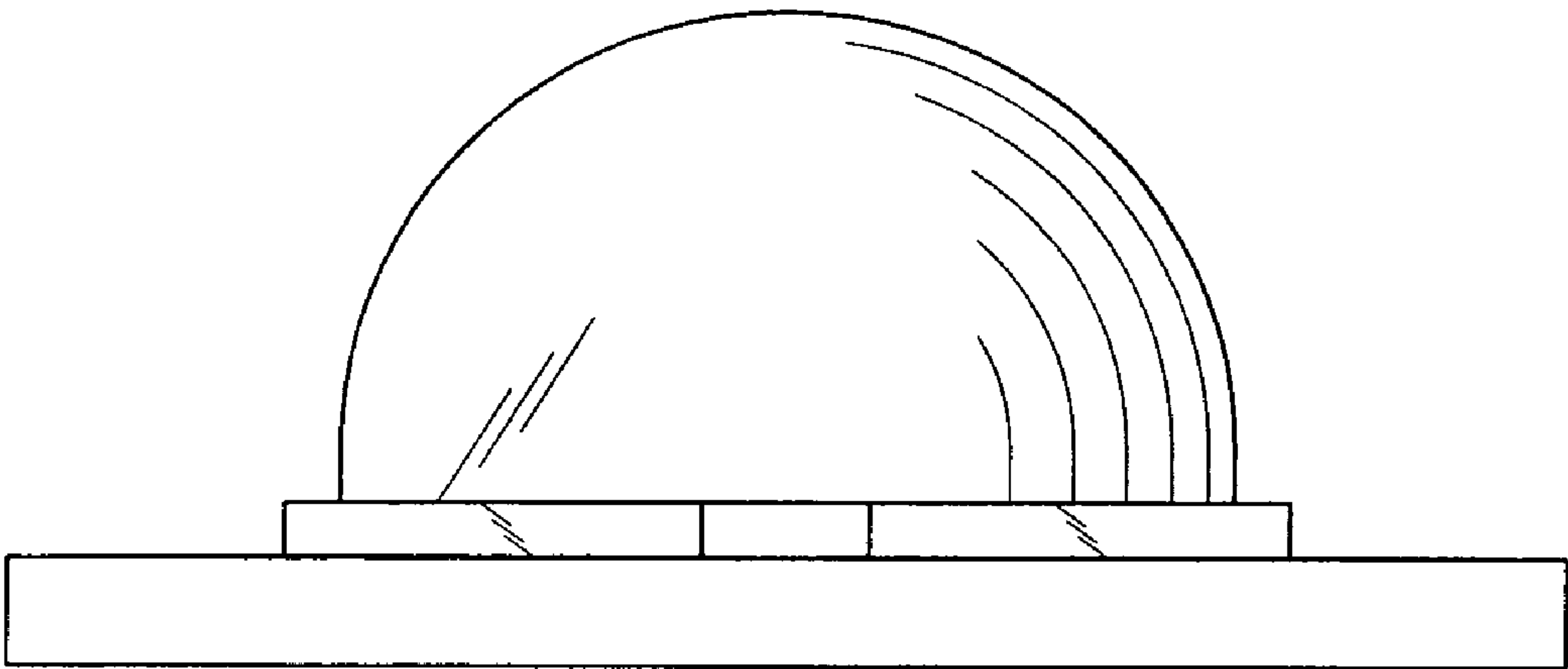


FIG. 11

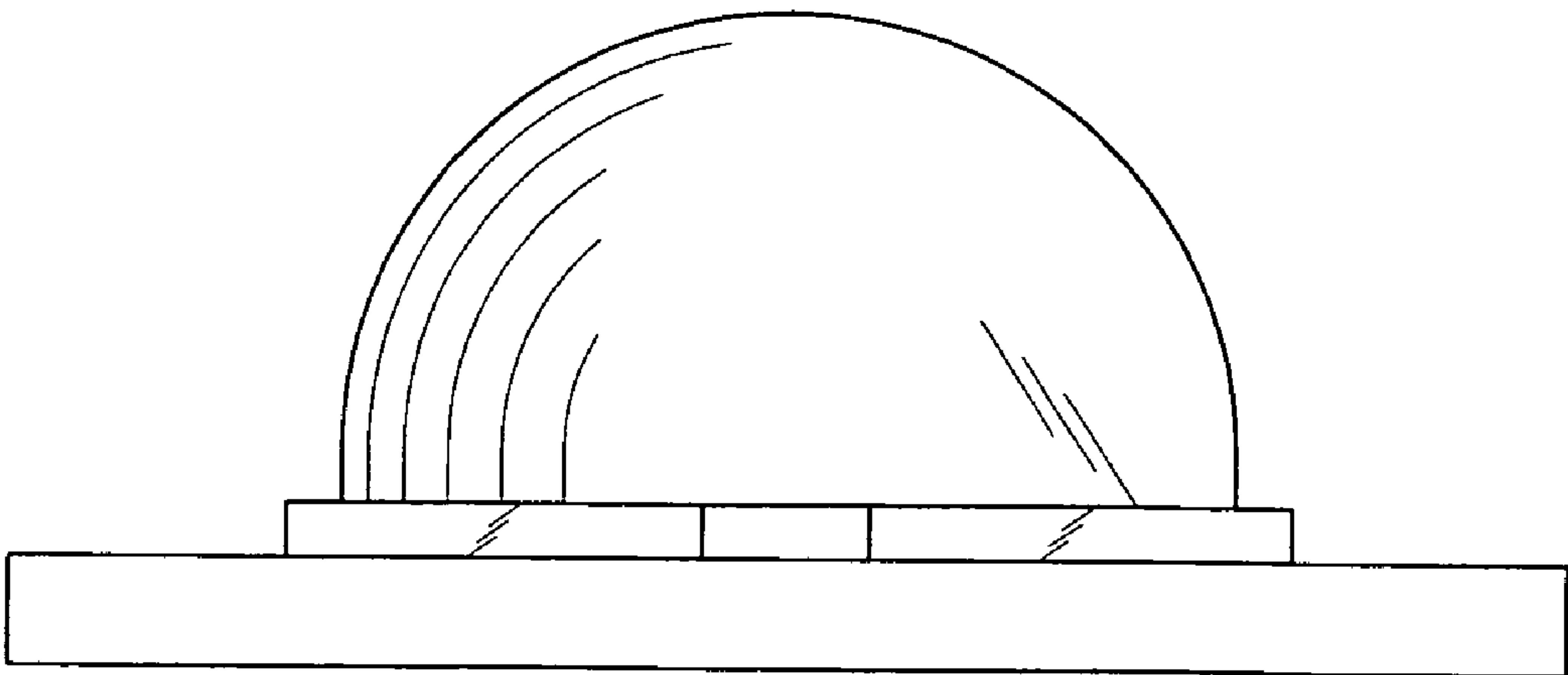


FIG. 12

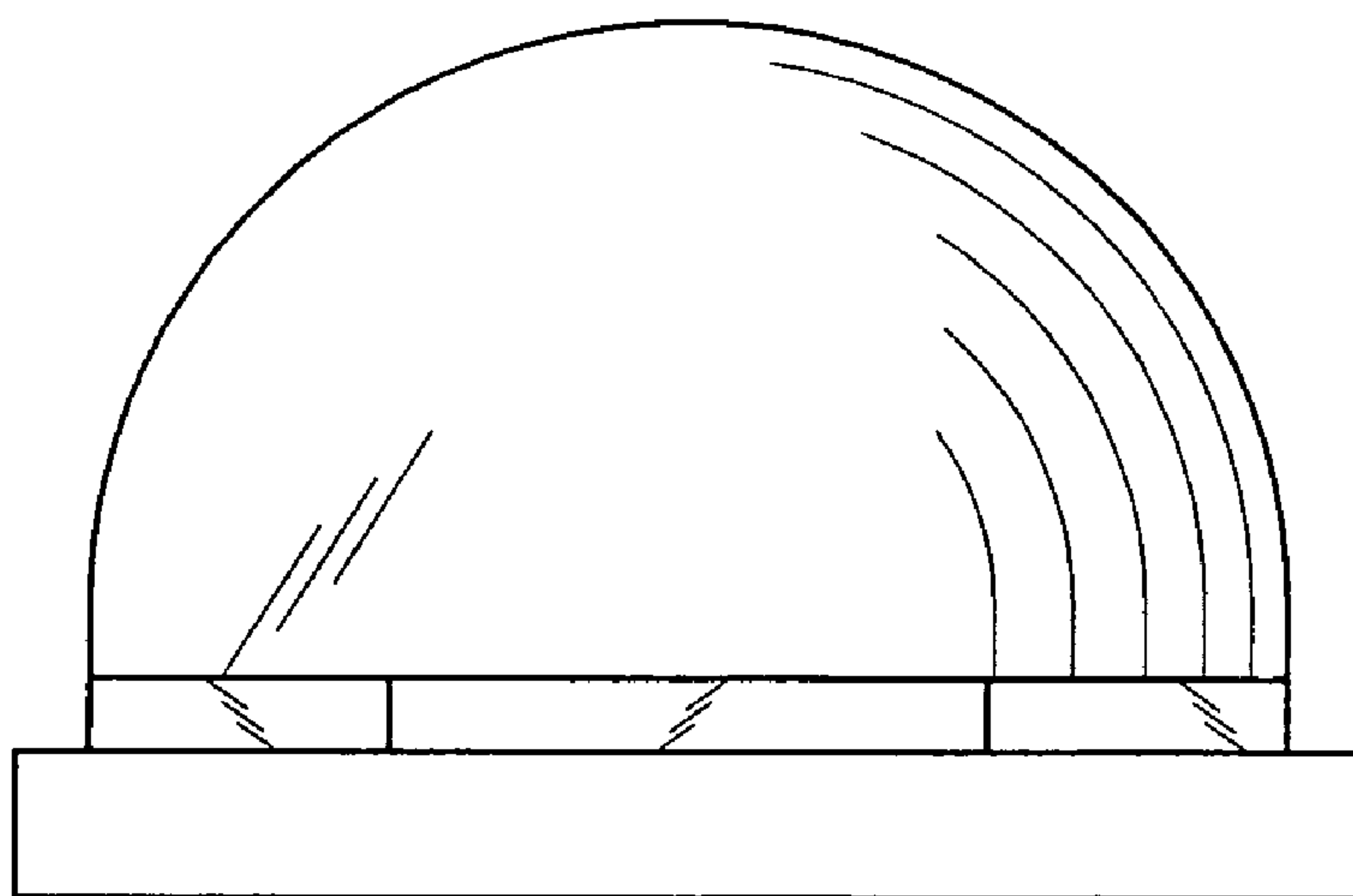


FIG. 13

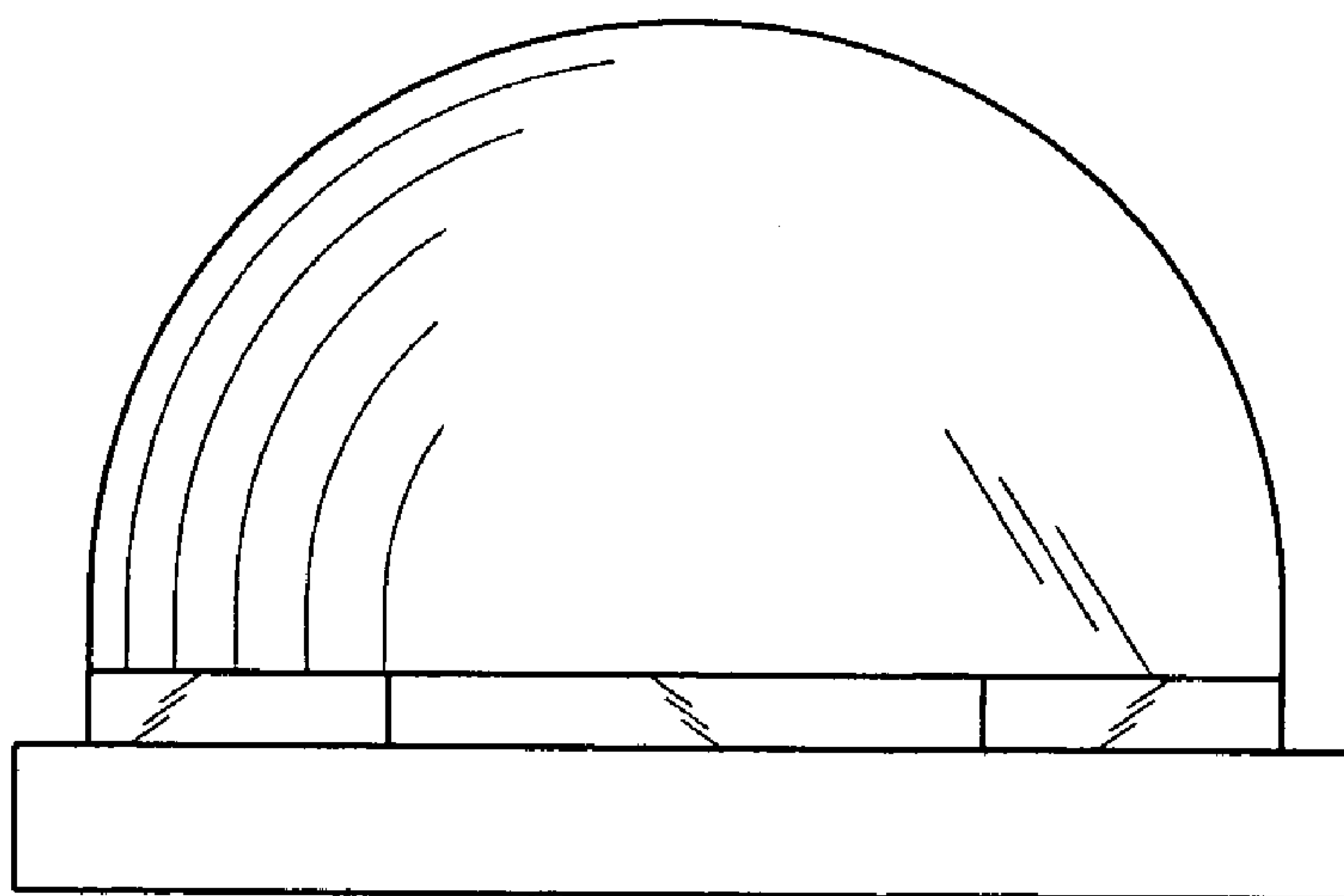


FIG. 14

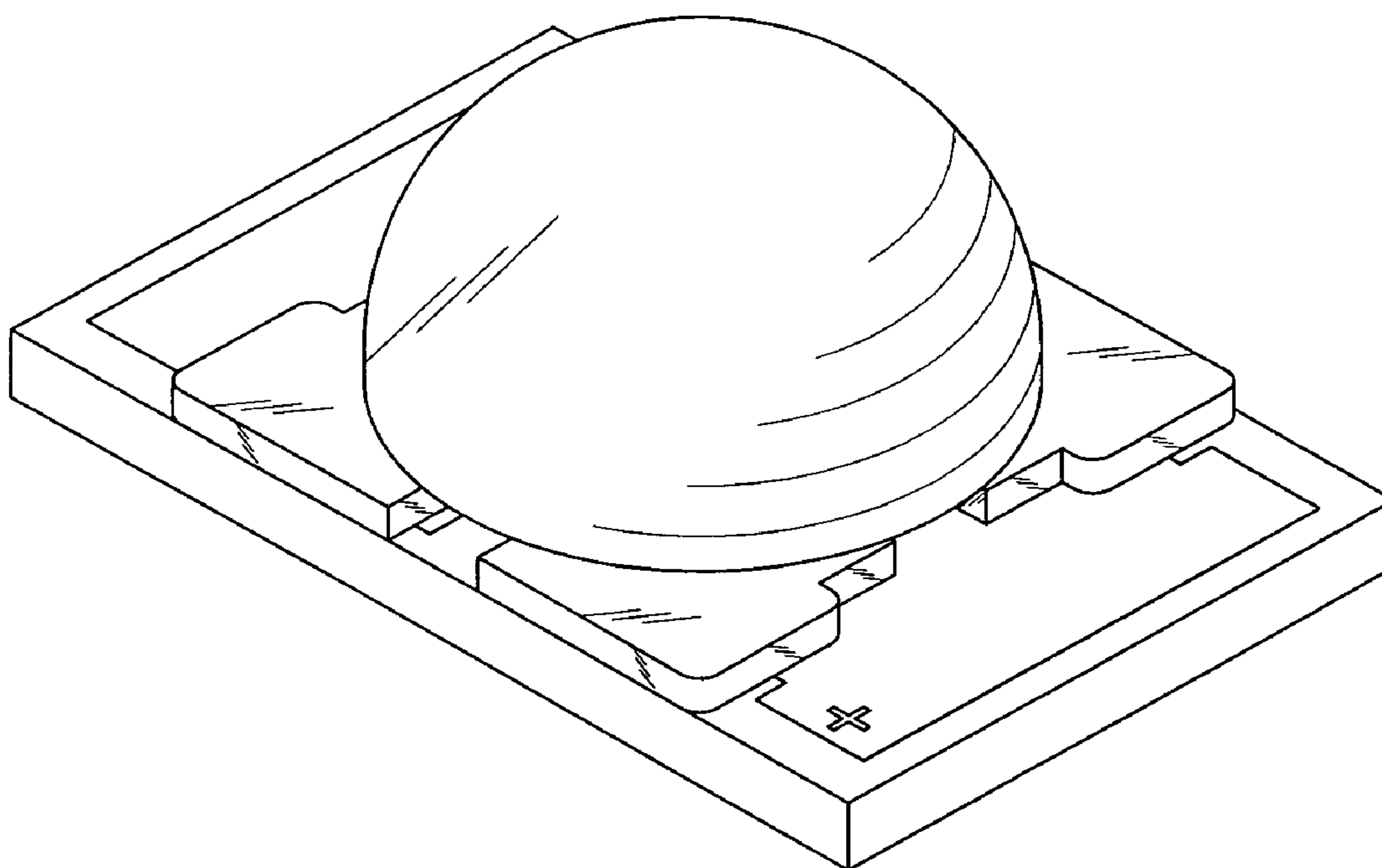


FIG. 15

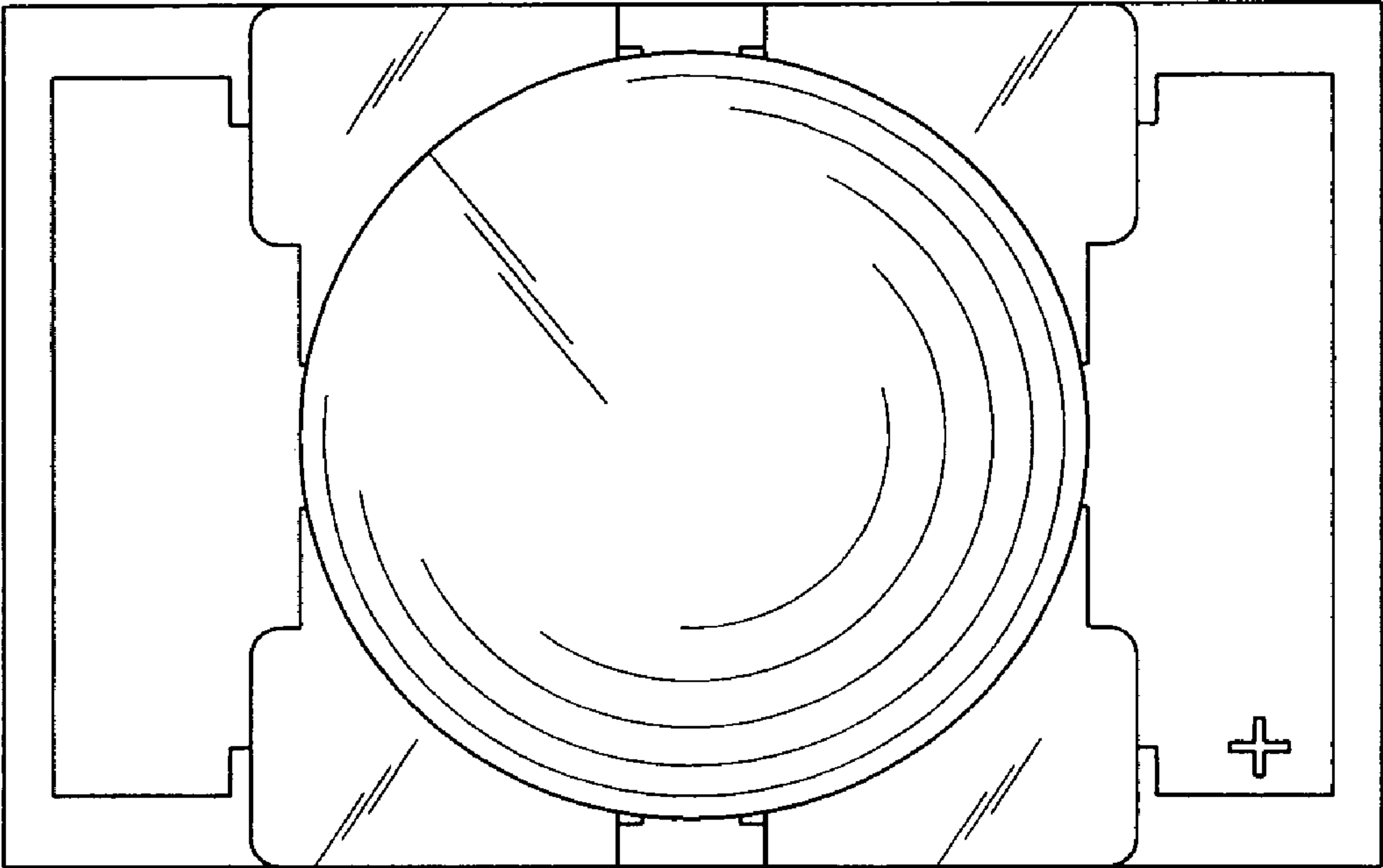


FIG. 16

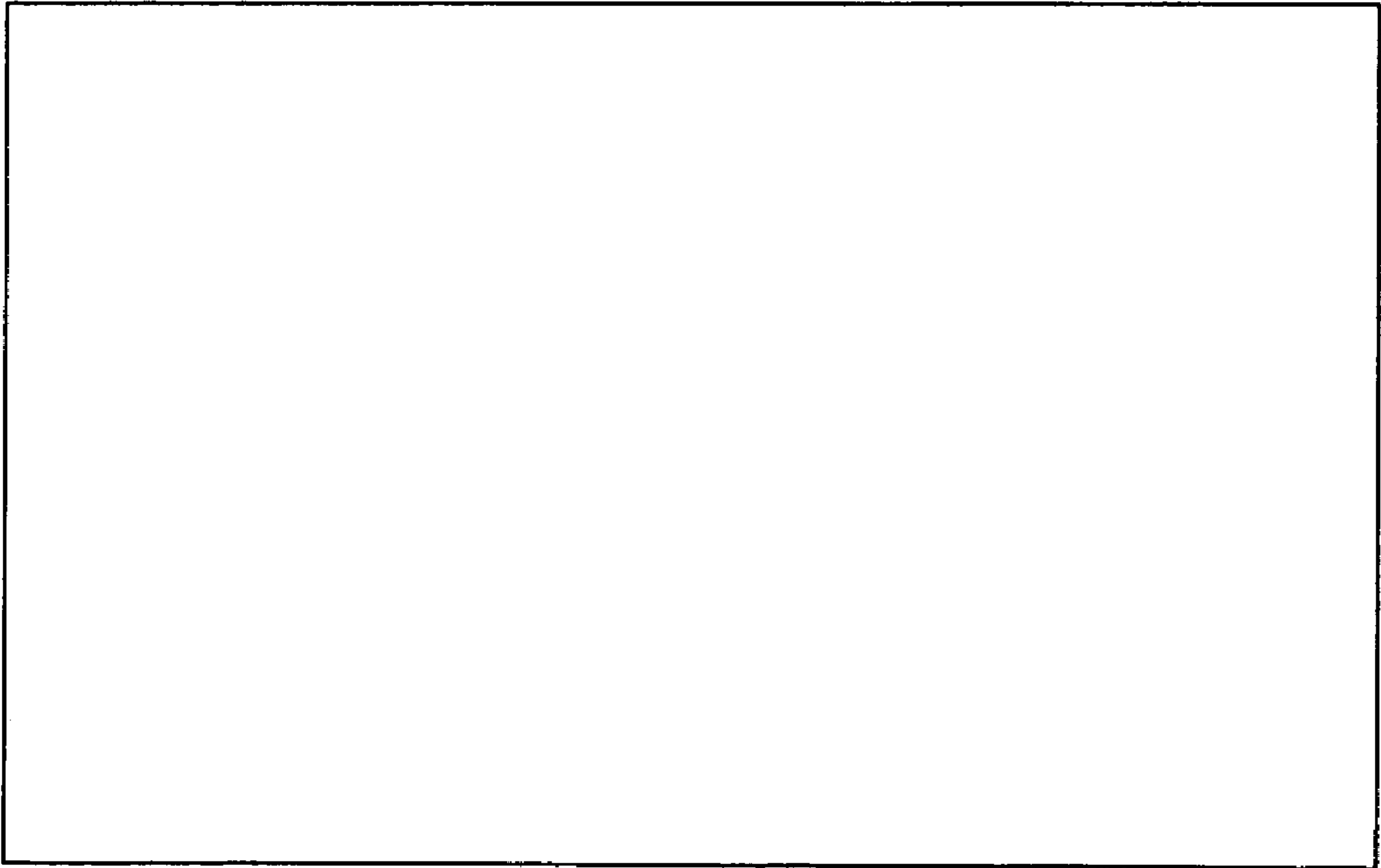


FIG. 17

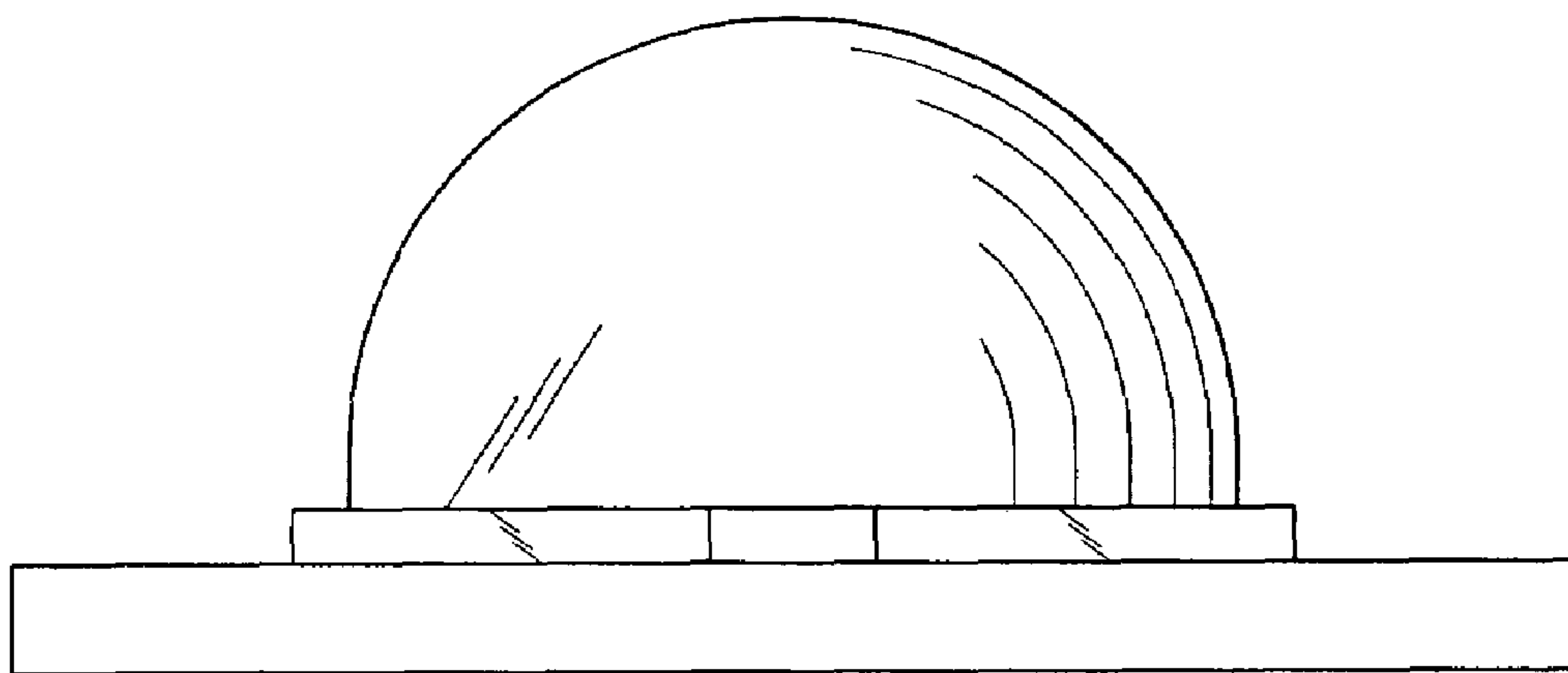


FIG. 18

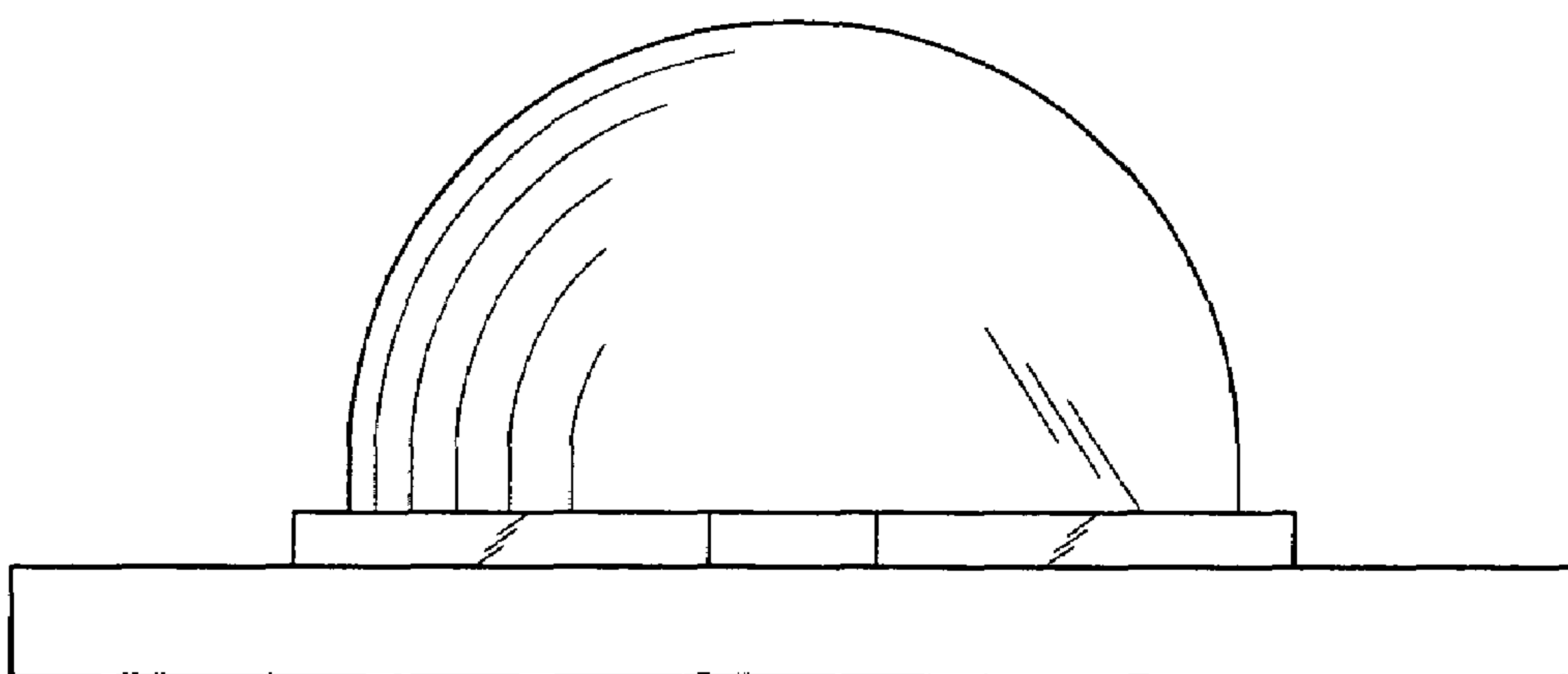


FIG. 19

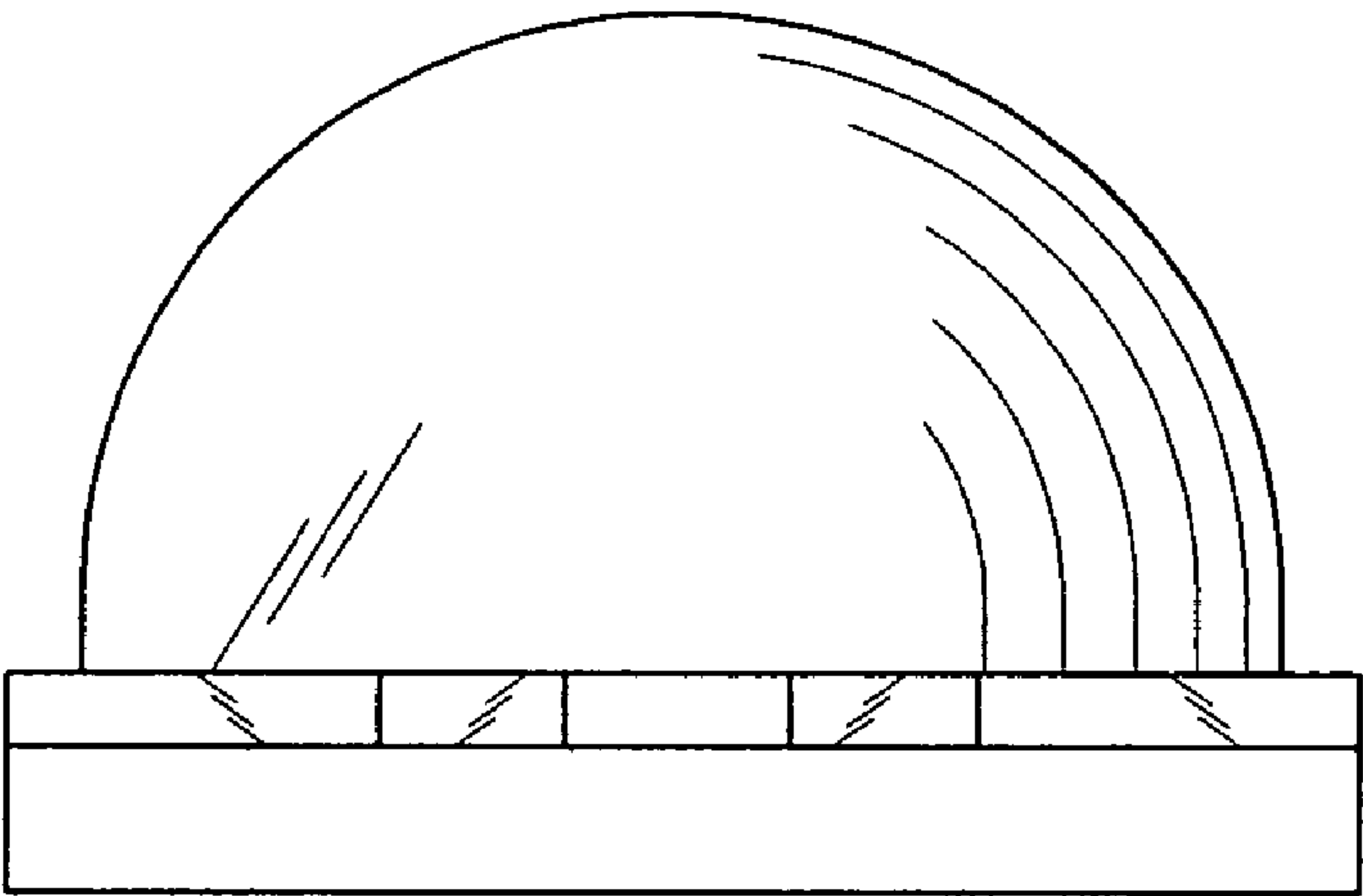


FIG. 20

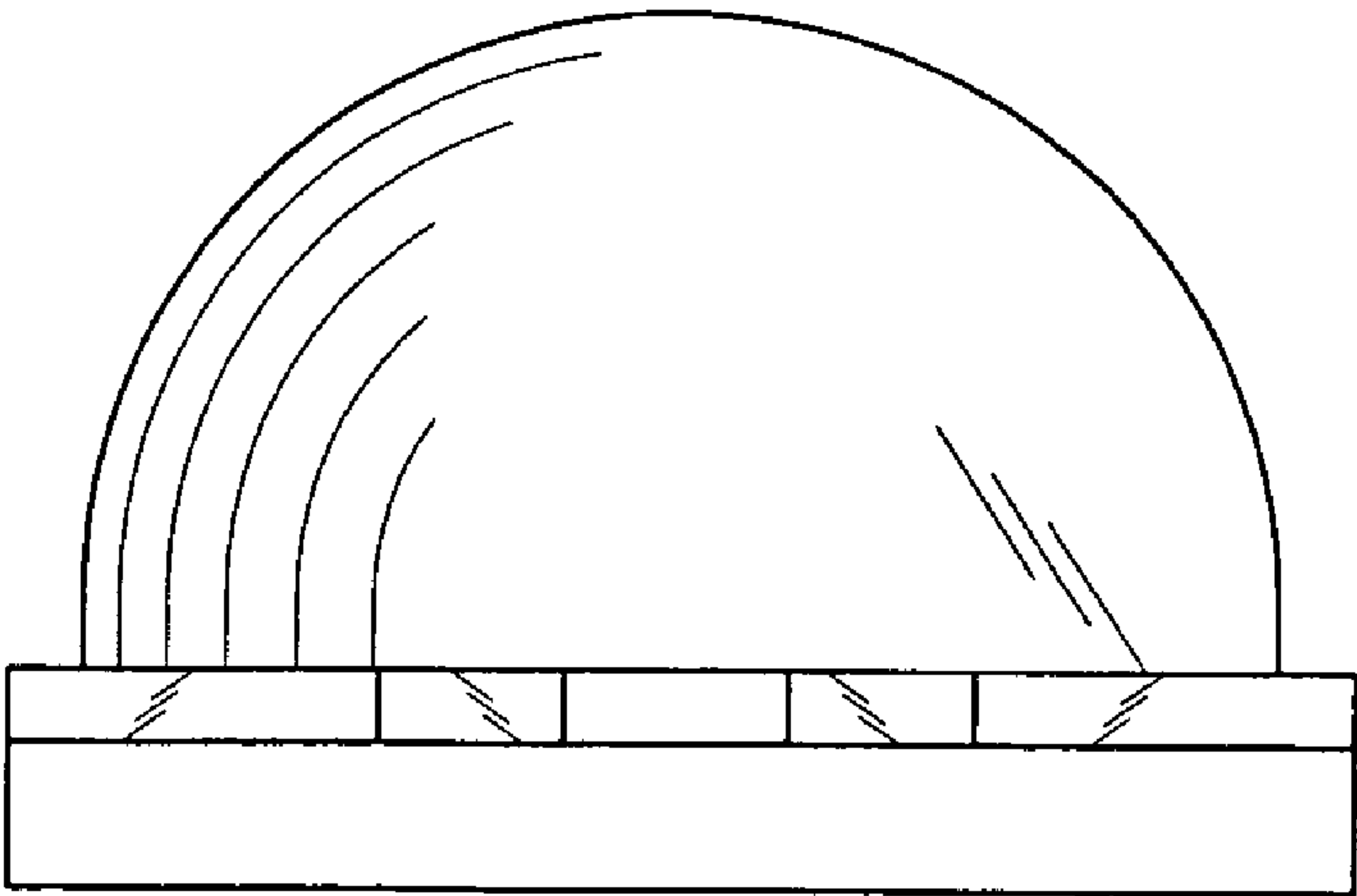


FIG. 21

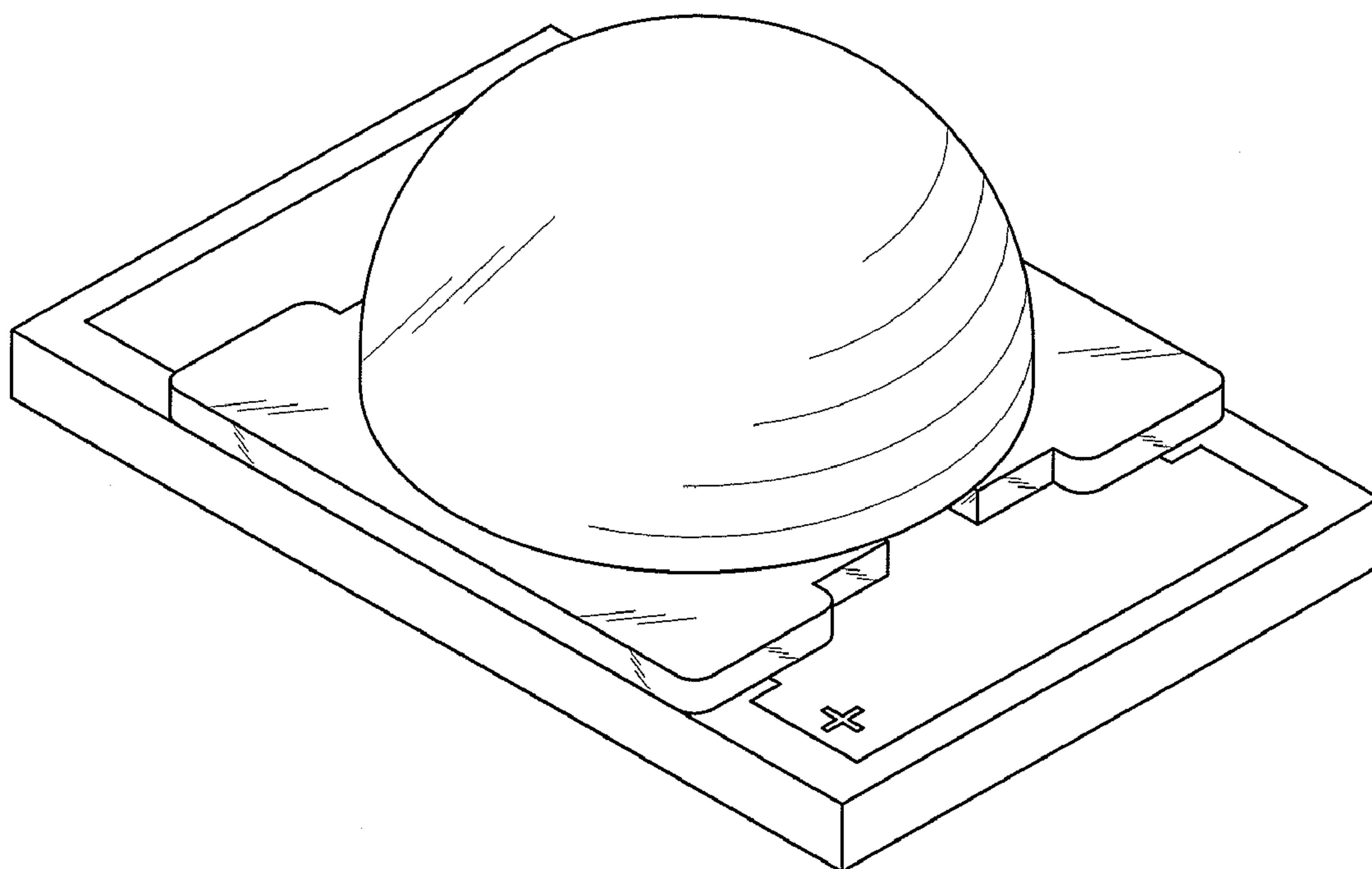


FIG. 22

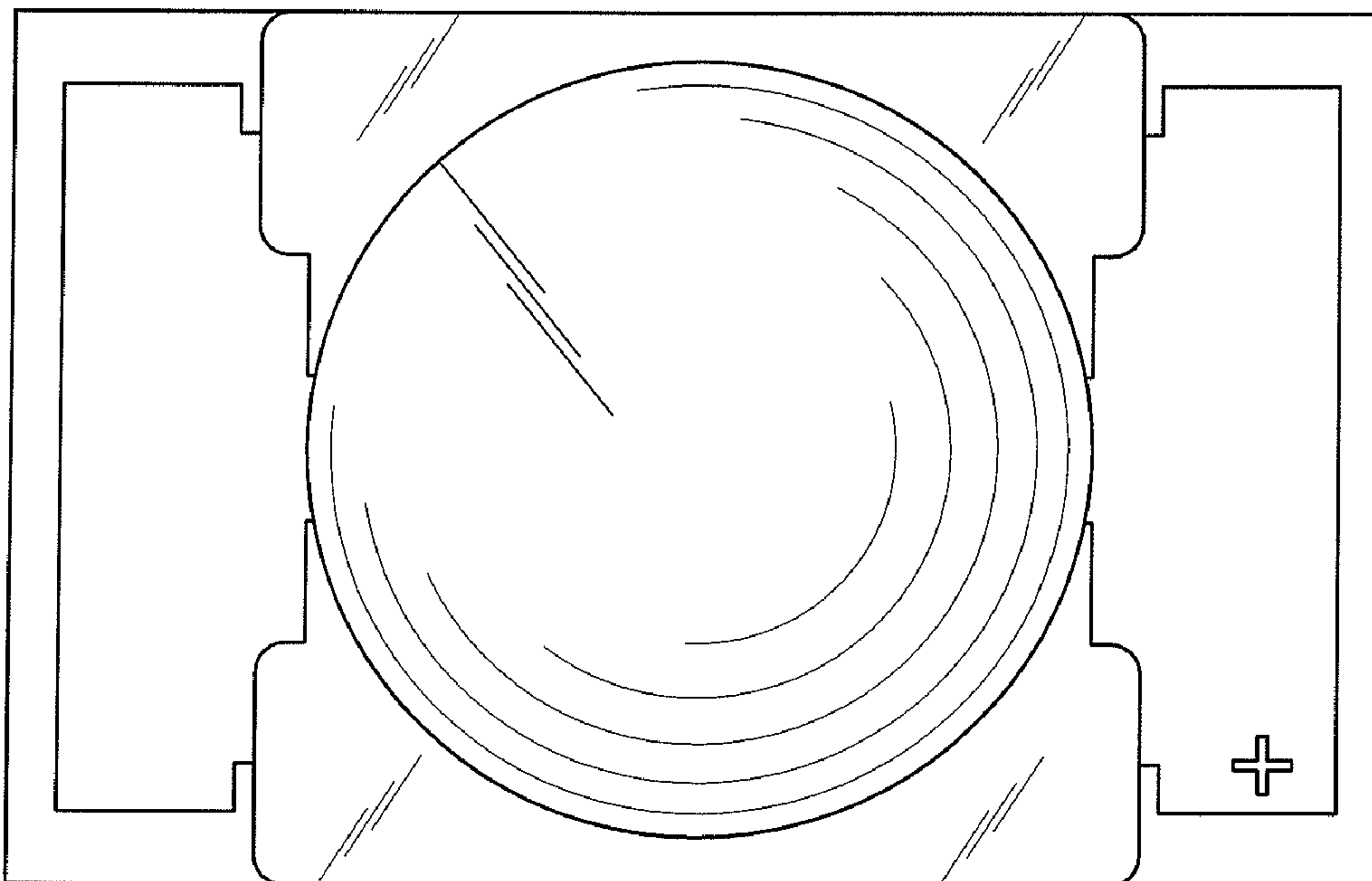


FIG. 23

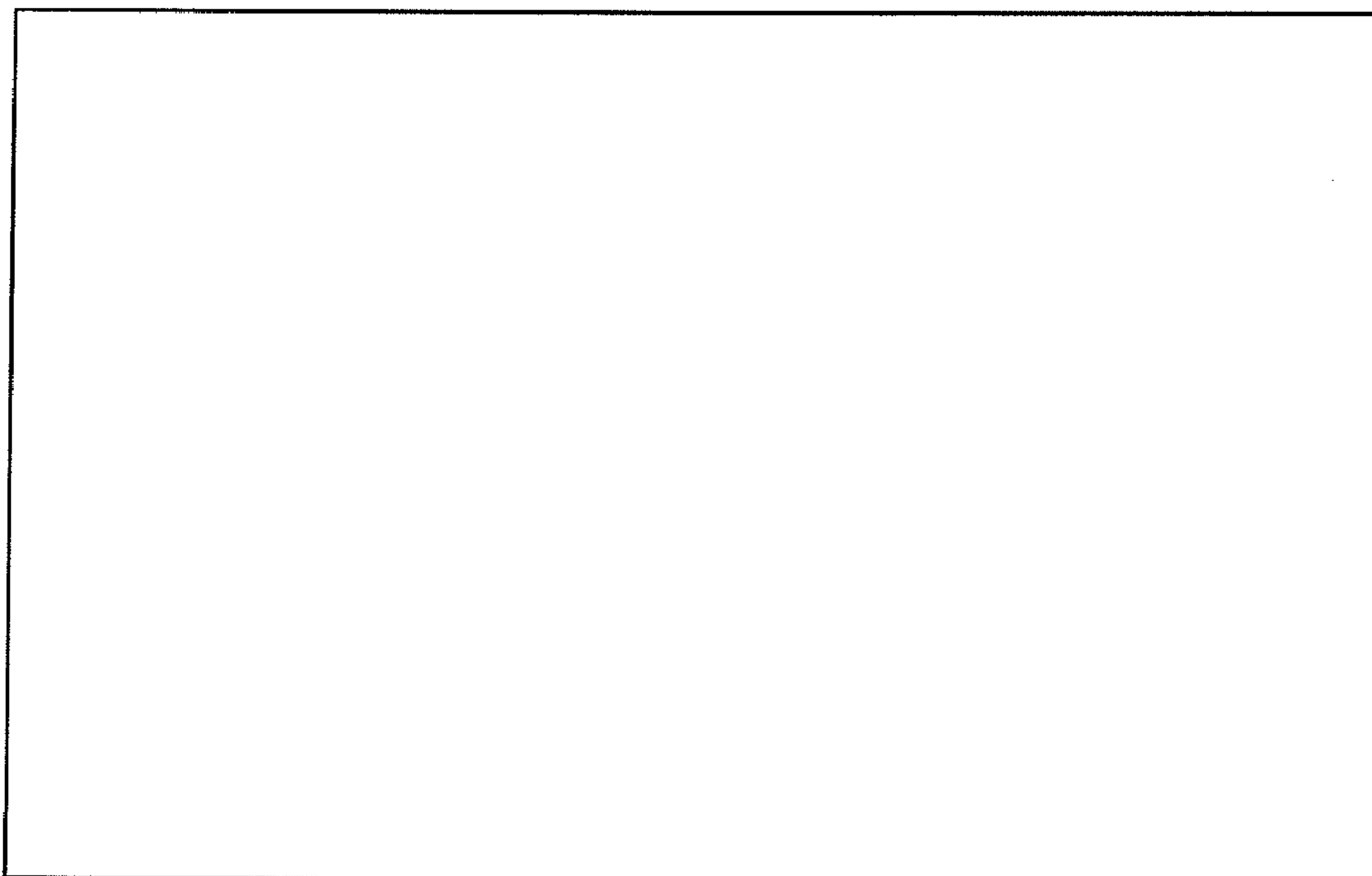


FIG. 24

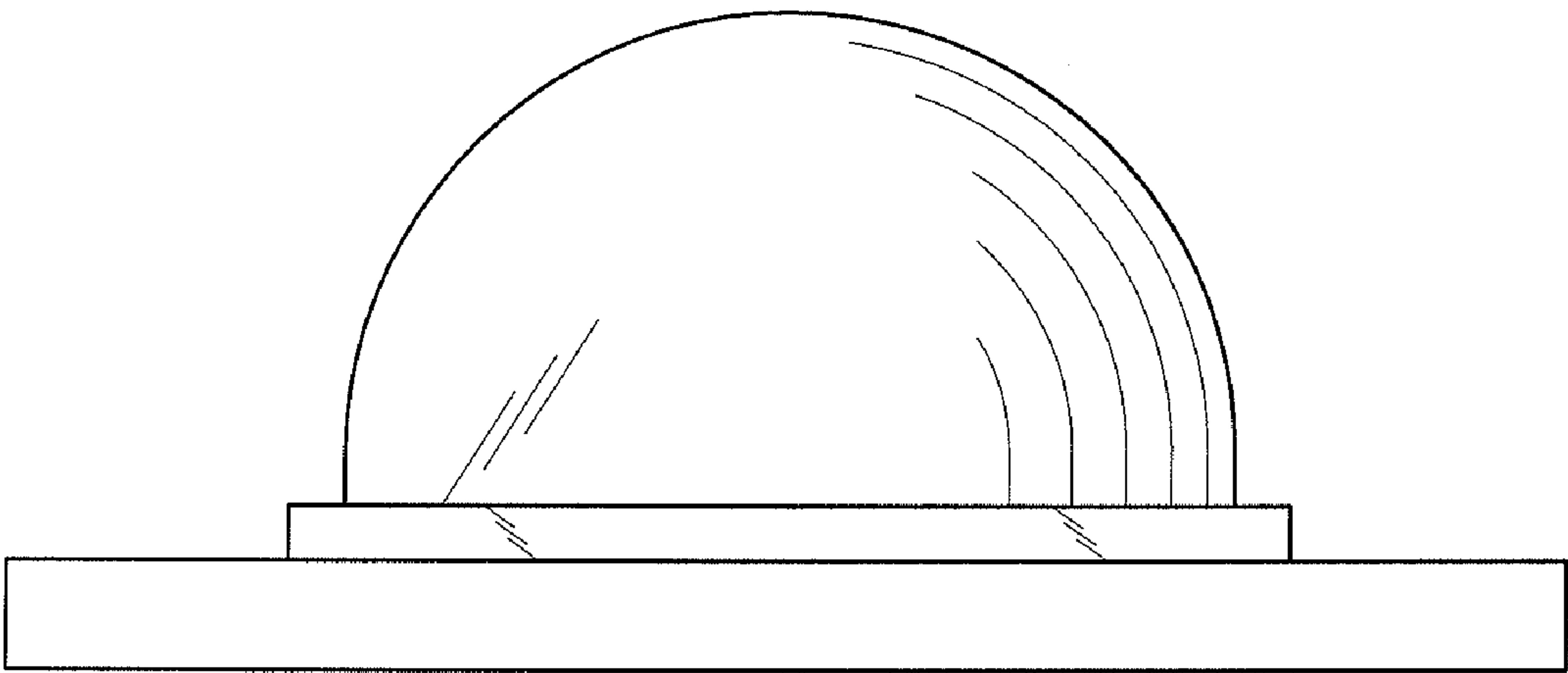


FIG. 25

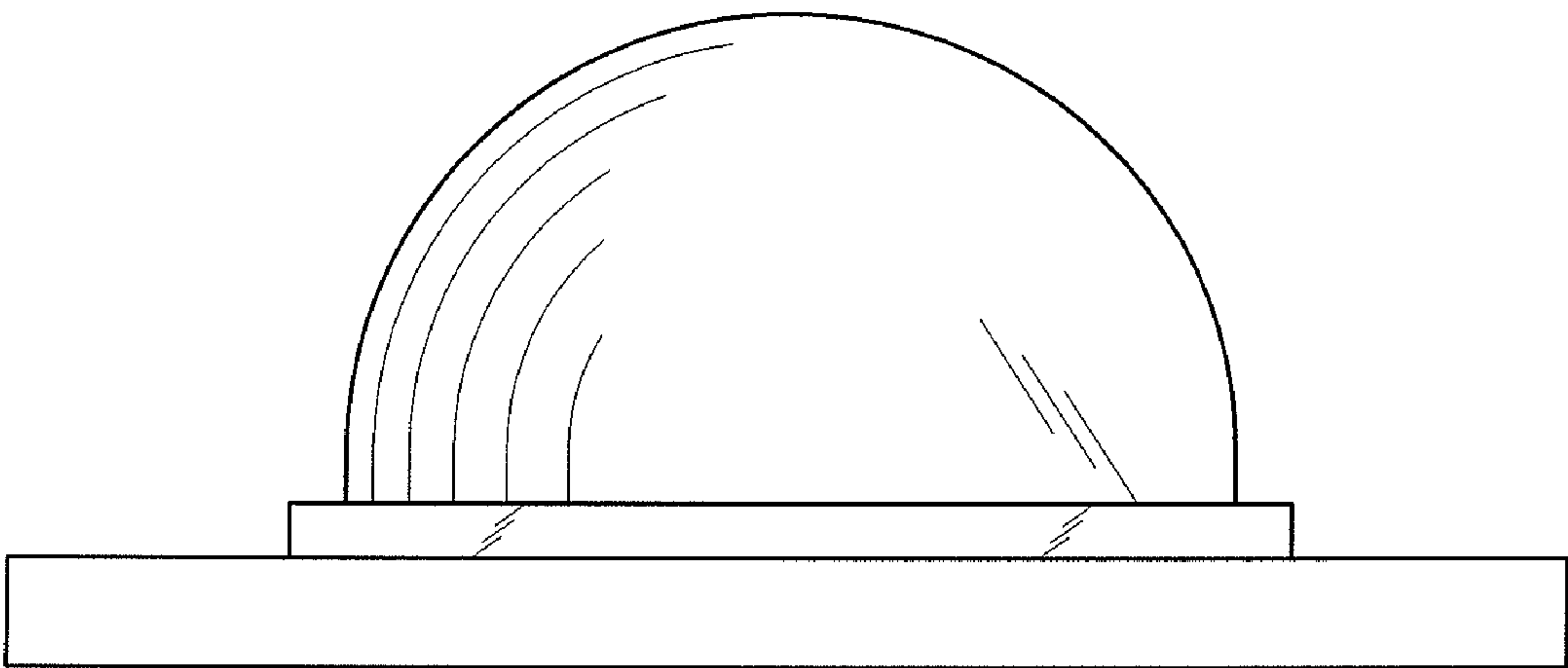


FIG. 26

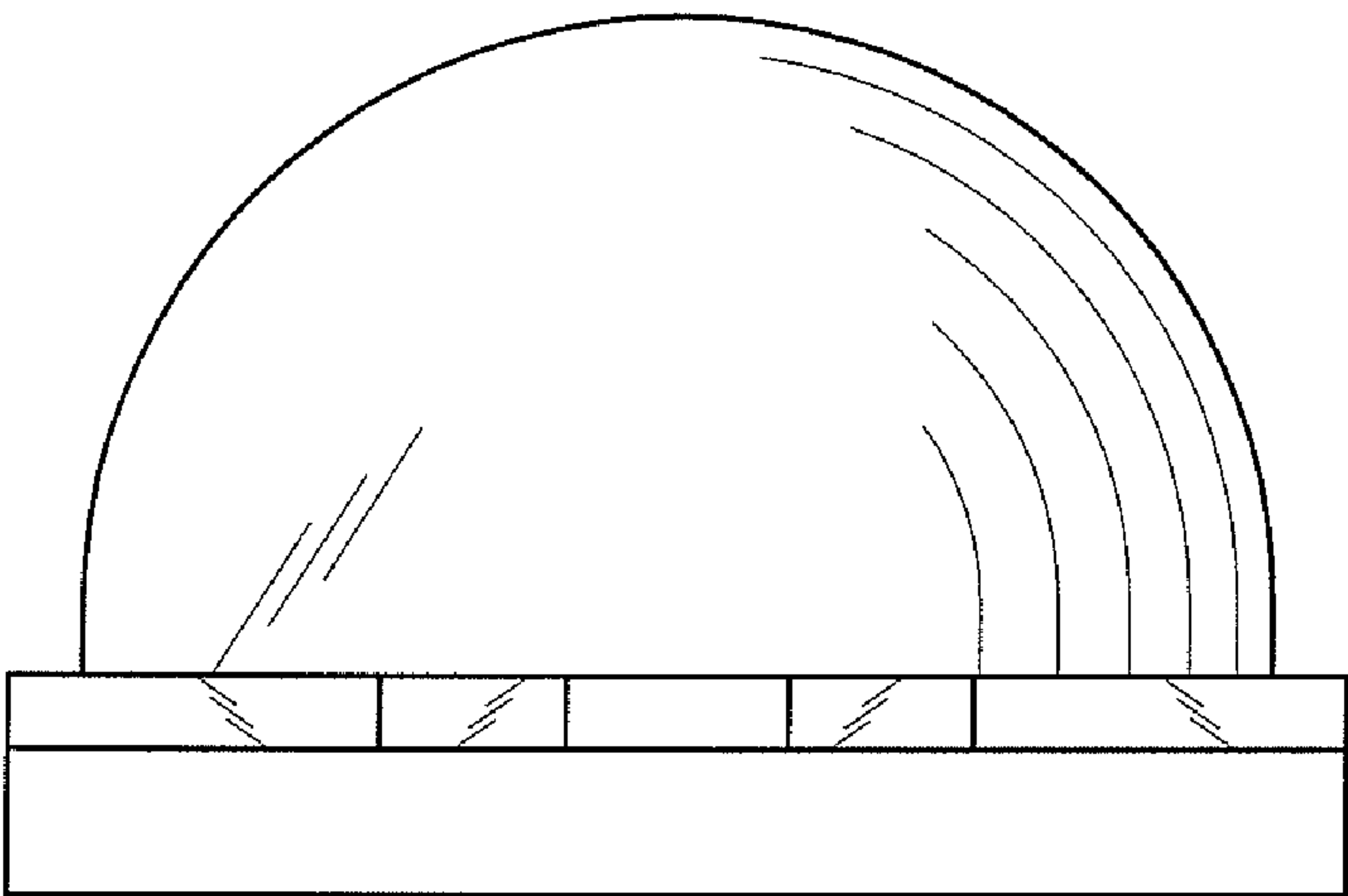


FIG. 27

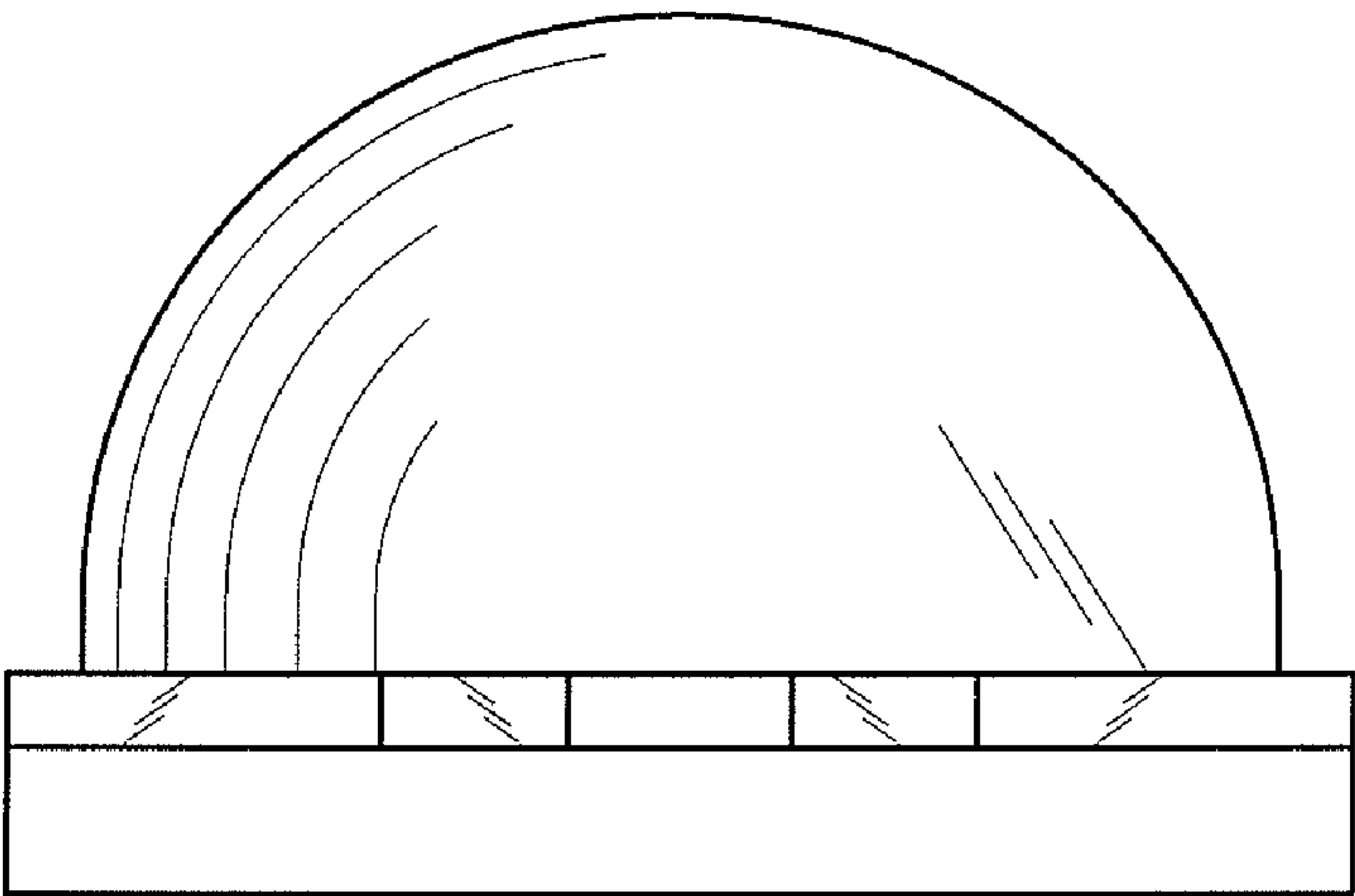


FIG. 28