



US00D844183S

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

(10) **Patent No.:** **US D844,183 S**
(45) **Date of Patent:** **** Mar. 26, 2019**

(54) **LIGHT EMITTING DIODE**

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(**) Term: **15 Years**

(21) Appl. No.: **29/594,659**

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(30) **Foreign Application Priority Data**

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Aug. 19, 2016 (JP) 2016-017695
Aug. 19, 2016 (JP) 2016-017700

(51) **LOC (11) Cl.** **26-04**

(52) **U.S. Cl.**
USPC **D26/1; D13/180**

(58) **Field of Classification Search**
USPC **D26/1; D13/180**

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D615,504 S 5/2010 Keller et al.
D634,863 S * 3/2011 Leung D26/1
(Continued)

FOREIGN PATENT DOCUMENTS

JP D1460431 1/2013
KR 30-0604101 7/2011
KR 30-0703807 8/2013

OTHER PUBLICATIONS

OSRAM, Opto Semiconductors, OSRON Black Series (850 nm)—150, Version 1.5, Jan. 29, 2016, SFH 4716S, 13 pgs., including pp. 1 and 5.

(Continued)

Primary Examiner — Marcus A Jackson

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(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view 1 of a light emitting diode showing my new design;
FIG. 2 is a perspective view 2 thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a front elevational view thereof;
FIG. 6 is a rear elevational view thereof;
FIG. 7 is a left side elevational view thereof;
FIG. 8 is a right side elevational view thereof;
FIG. 9 is a perspective view of a second embodiment of a light emitting diode showing my new design;
FIG. 10 is a top plan view thereof;
FIG. 11 is a bottom plan view thereof;
FIG. 12 is a front elevational view thereof;
FIG. 13 is a rear elevational view thereof;
FIG. 14 is a left side elevational view thereof;
FIG. 15 is a right side elevational view thereof;
FIG. 16 is a perspective view 1 of a third embodiment of a light emitting diode showing my new design;
FIG. 17 is a perspective view 2 thereof;
FIG. 18 is a top plan view thereof;
FIG. 19 is a bottom plan view thereof;
FIG. 20 is a front elevational view thereof;
FIG. 21 is a rear elevational view thereof;
FIG. 22 is a left side elevational view thereof; and,

(Continued)

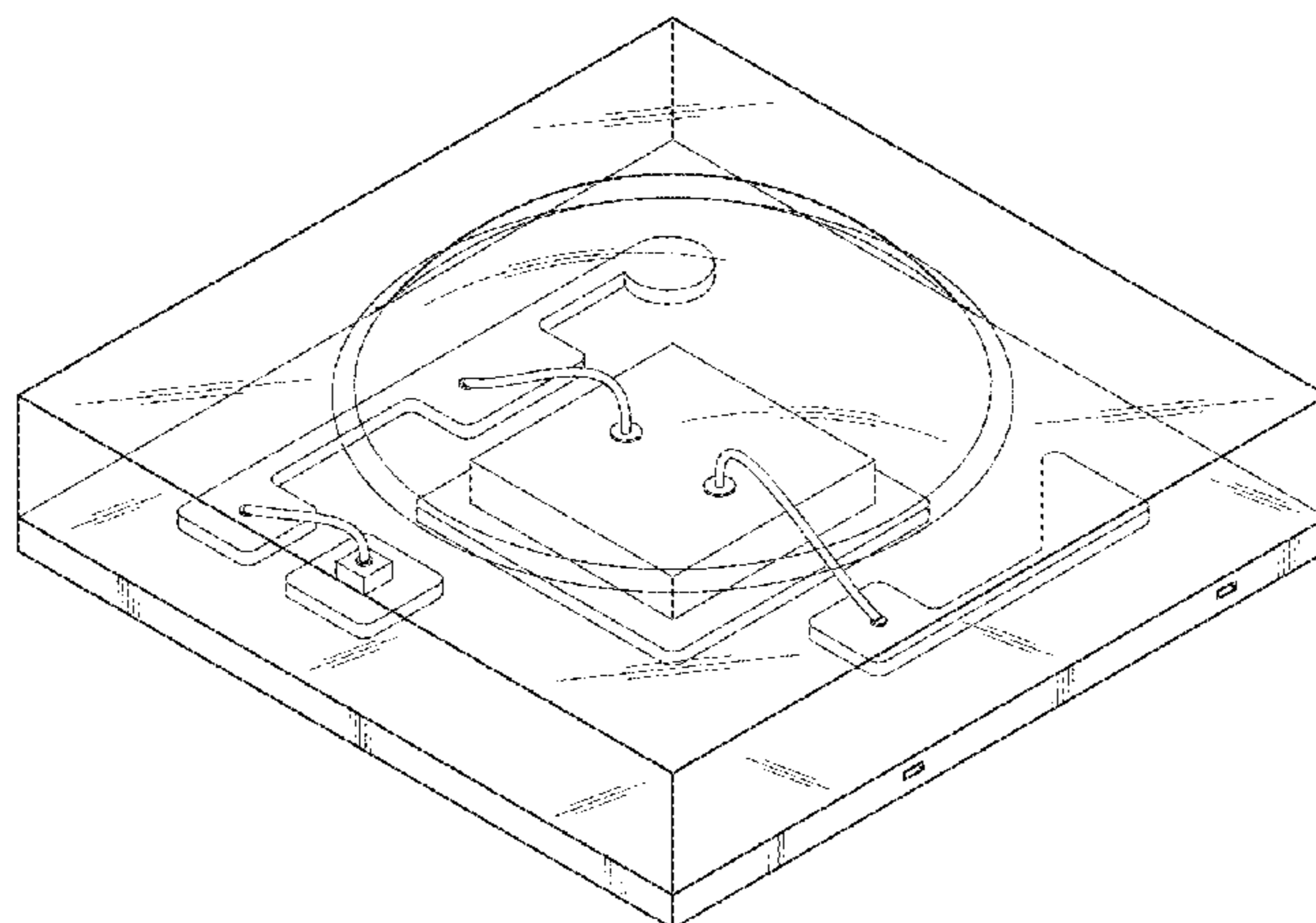


FIG. 23 is a right side elevational view thereof.

1 Claim, 12 Drawing Sheets

(58) Field of Classification Search

CPC H01L 25/167; H01L 31/02; H01L 33/00; H01L 33/04; H01L 33/08; H01L 33/10; H01L 33/20; H01L 33/38; H01L 33/42; H01L 33/48; H01L 33/62; H01L 33/483; H01L 33/486; F21K 9/00; F21K 9/30; F21K 9/54; H01R 5/00; H01R 13/46; H01R 13/514; H01R 31/048; H01R 31/02; H01J 5/00; H01J 5/16; H01J 15/00; H01J 5/48; H01J 5/50; H01J 19/54 See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D656,906 S * 4/2012 Leung D13/180 D671,661 S * 11/2012 Leung D26/1

D689,210 S * 9/2013 Donofrio D13/180 D691,973 S 10/2013 Donofrio et al. D698,741 S 2/2014 Kobayashi et al. D709,464 S 7/2014 Abare et al. D712,849 S 9/2014 Britt et al. D713,804 S 9/2014 Britt et al. D741,821 S 10/2015 Song D749,051 S 2/2016 Clark et al. D753,612 S 4/2016 Hussell et al.

OTHER PUBLICATIONS

OSRAM, Opto Semiconductors, OSRON Black Series (940 nm)— 90, Version 1.5, Jan. 29, 2016, SFH 4725S, 13 pgs., including pp. 1 and 5. JP D1460431 (English language machine translation provided). KR 30-0604101 (English language machine translation provided). KR 30-0703807 (English language machine translation provided).

* cited by examiner

FIG. 1

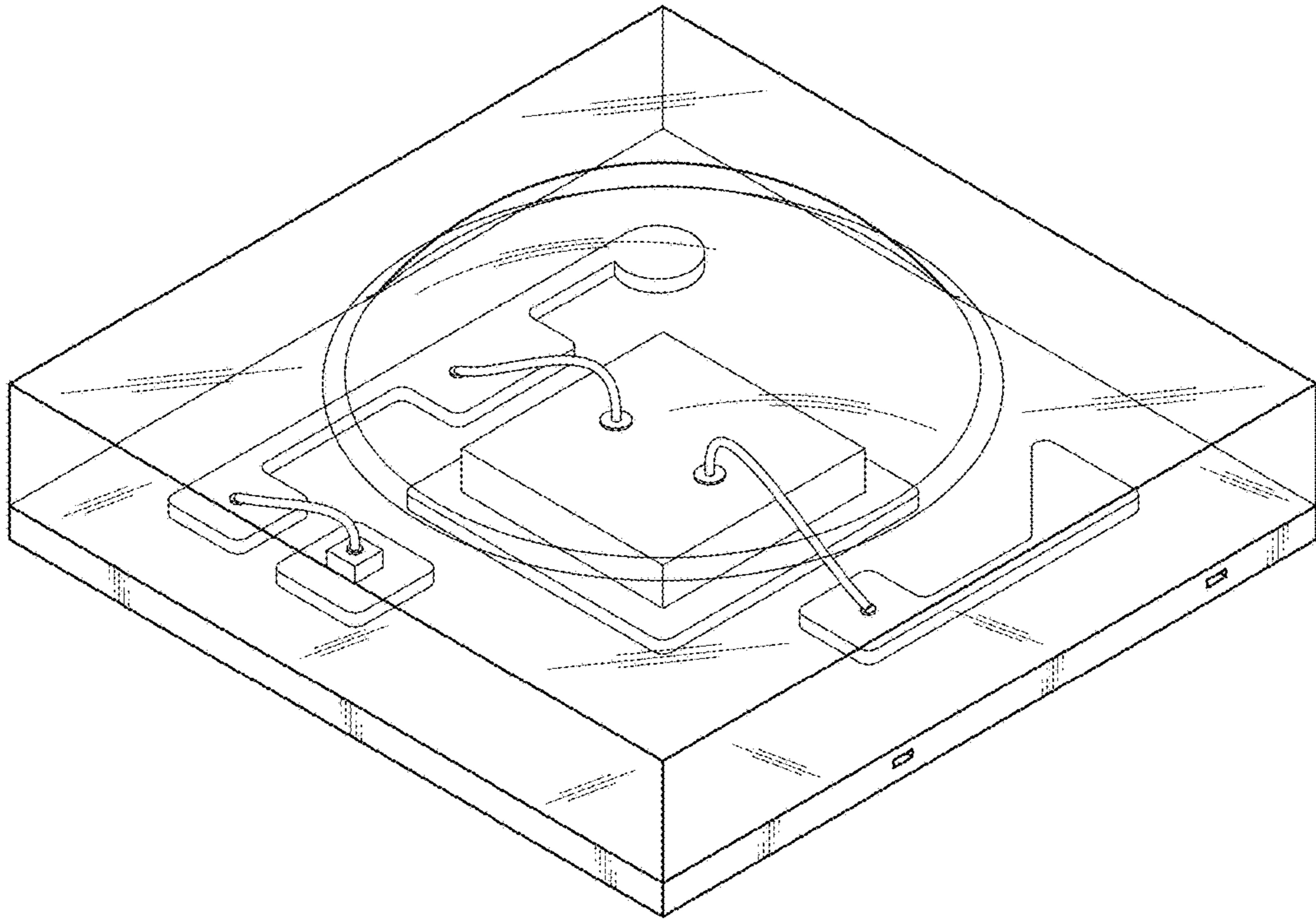


FIG. 2

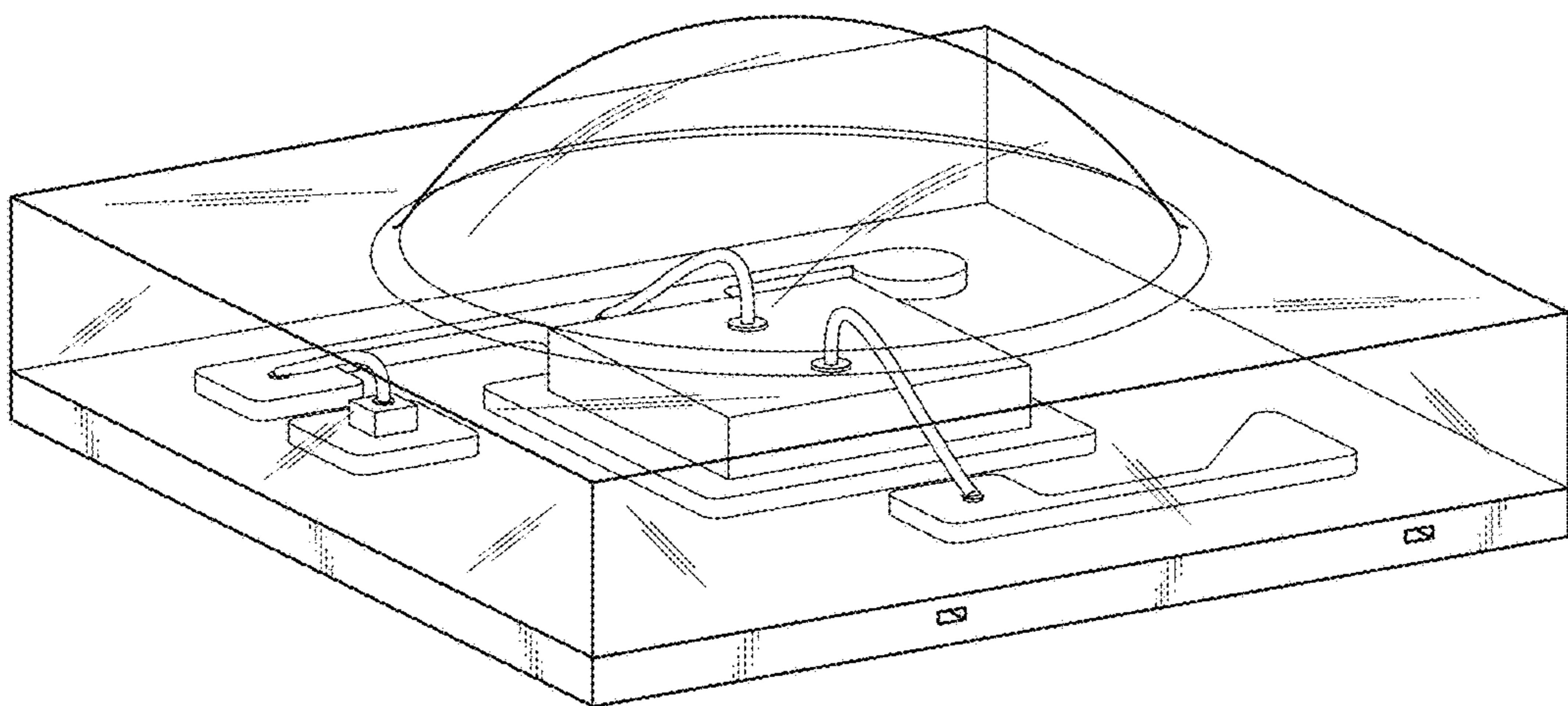


FIG. 3

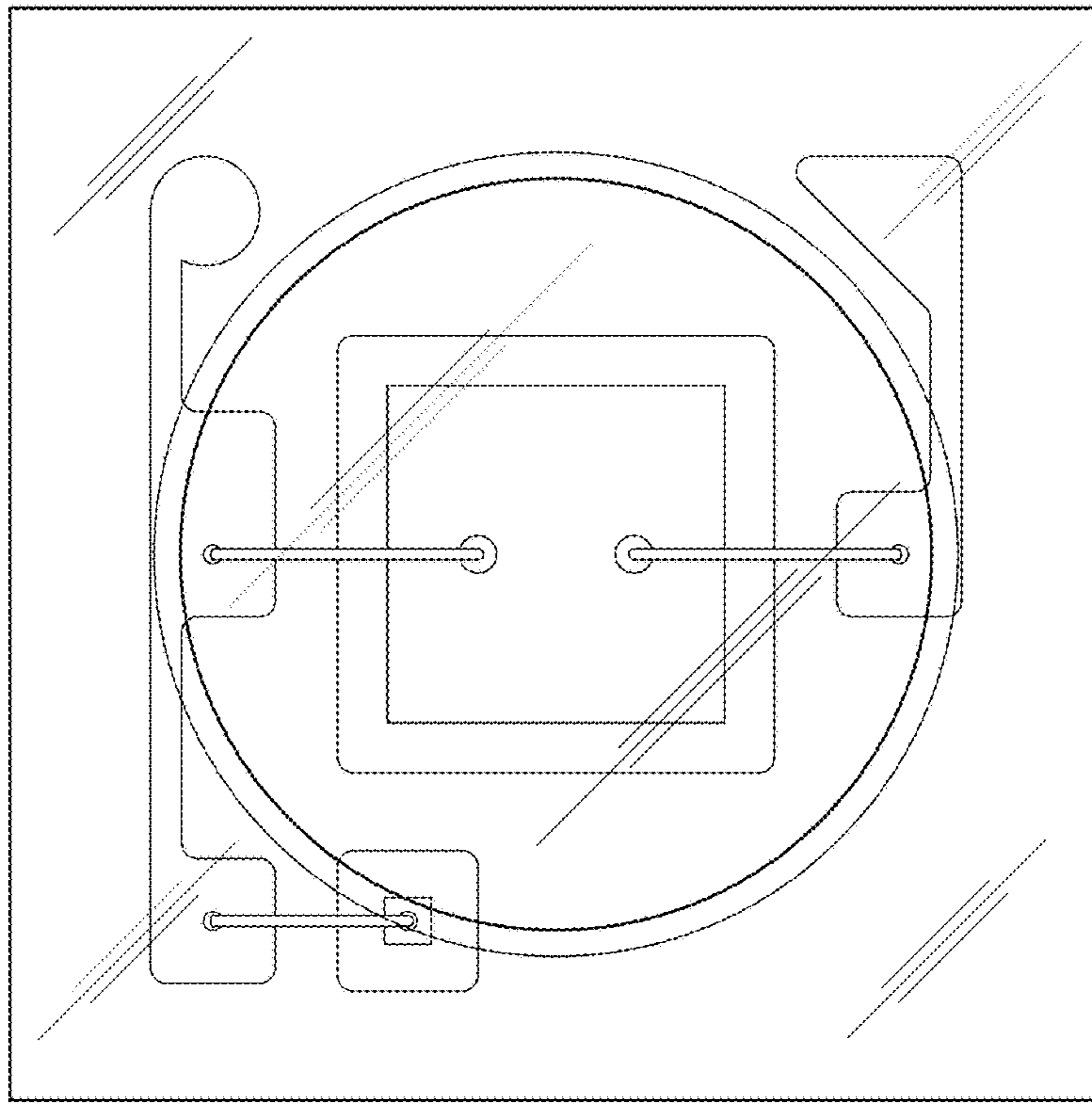


FIG. 4

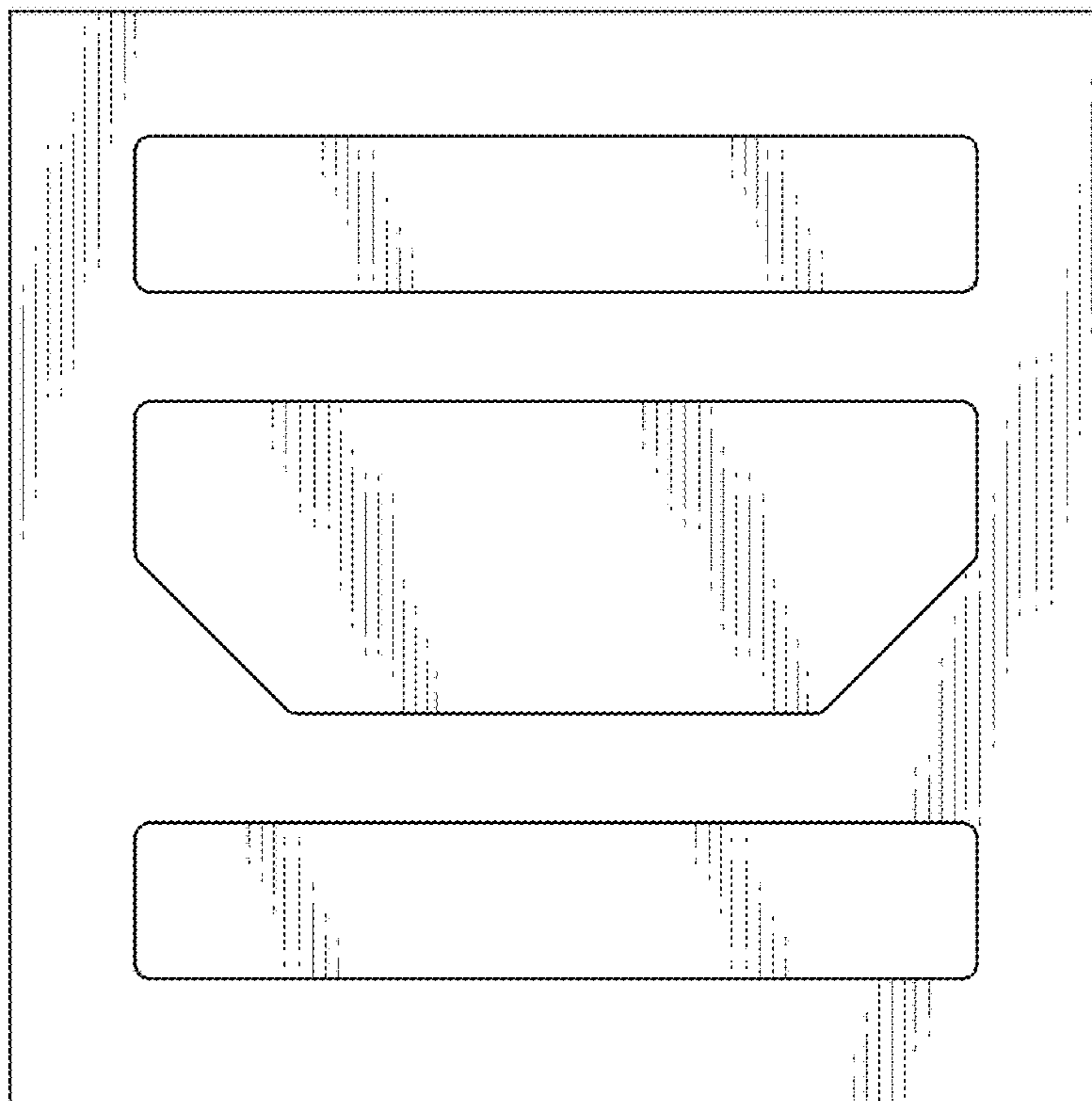


FIG. 5

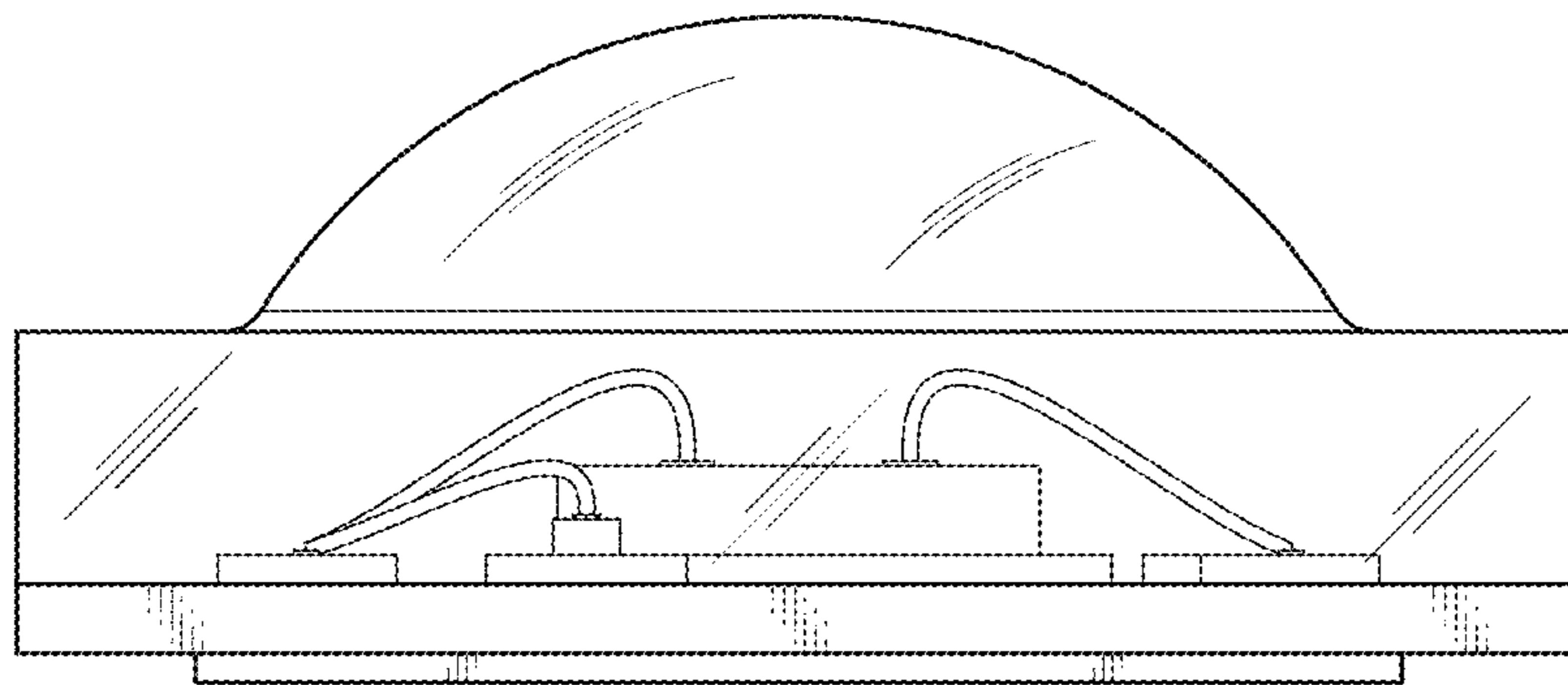


FIG. 6

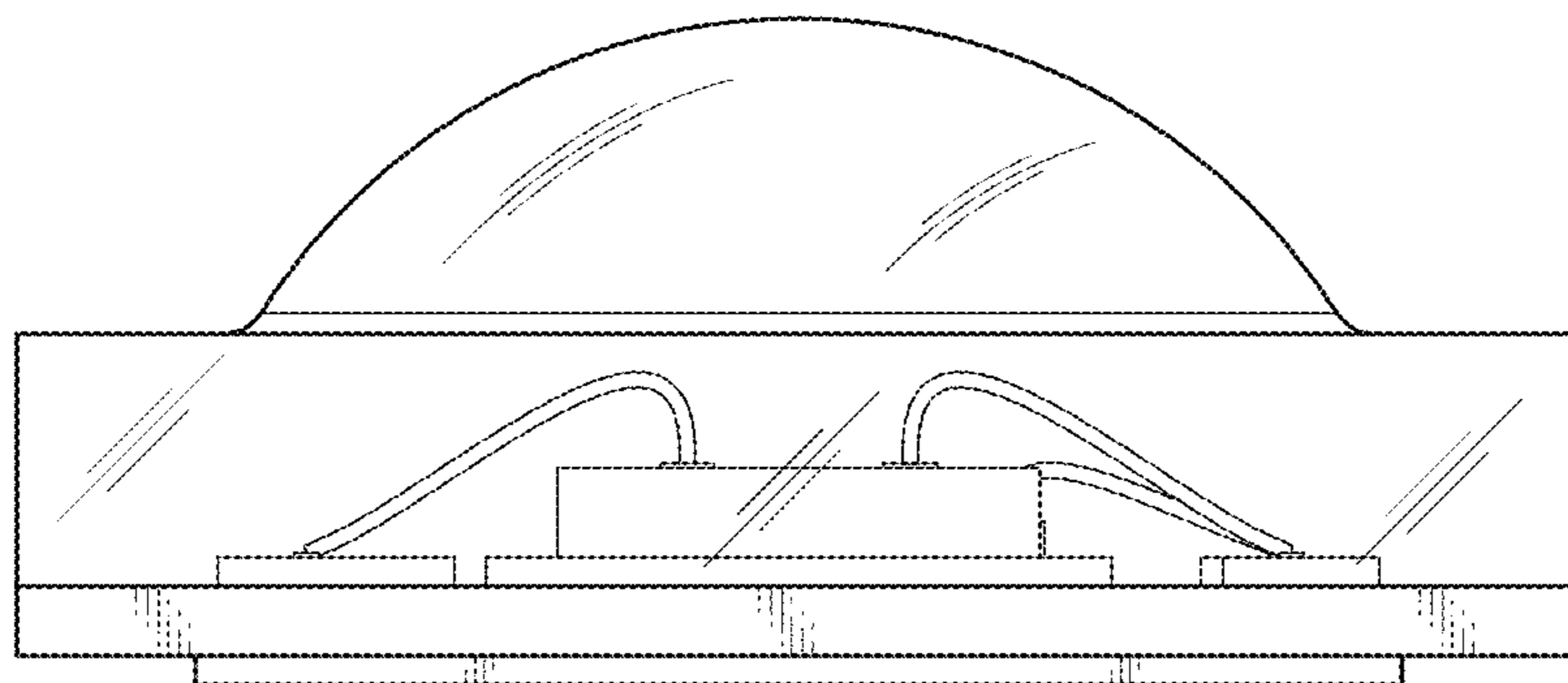


FIG. 7

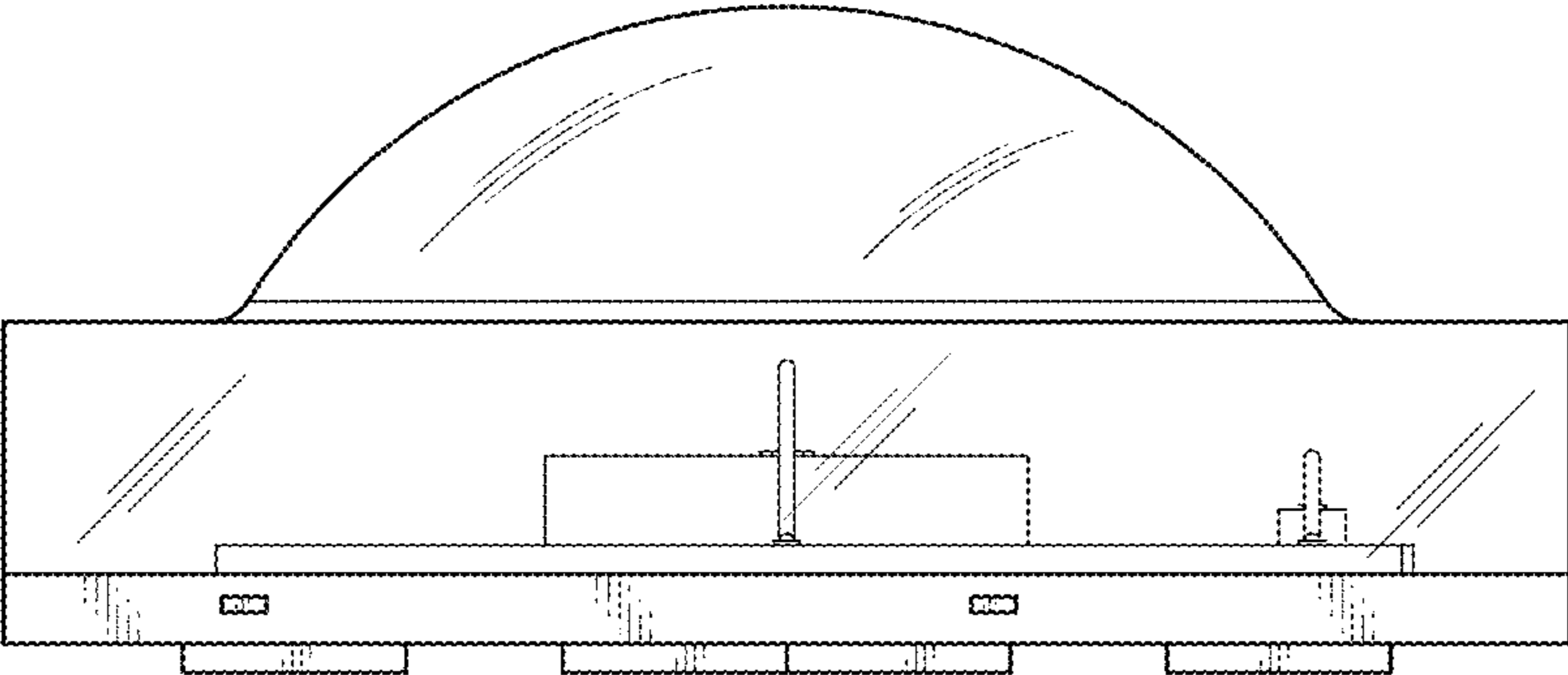


FIG. 8

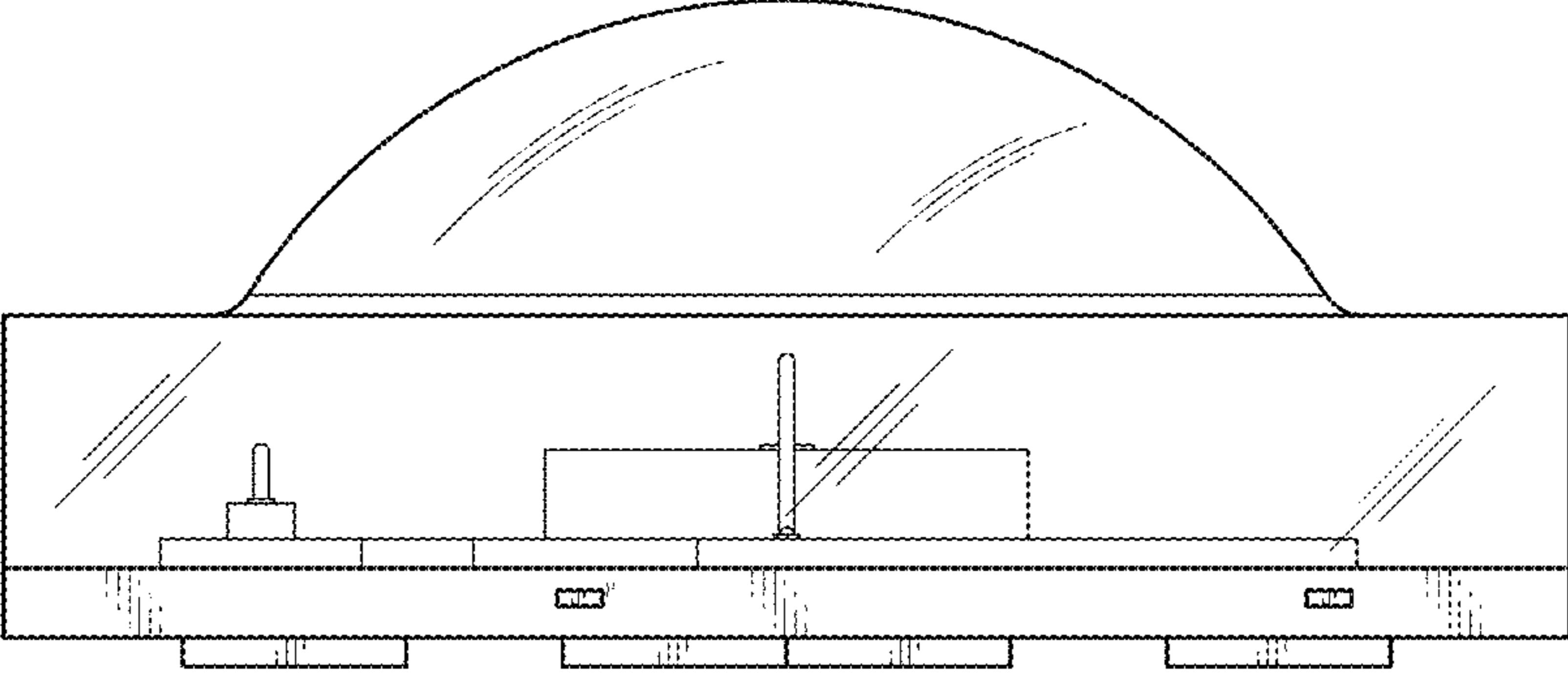


FIG. 9

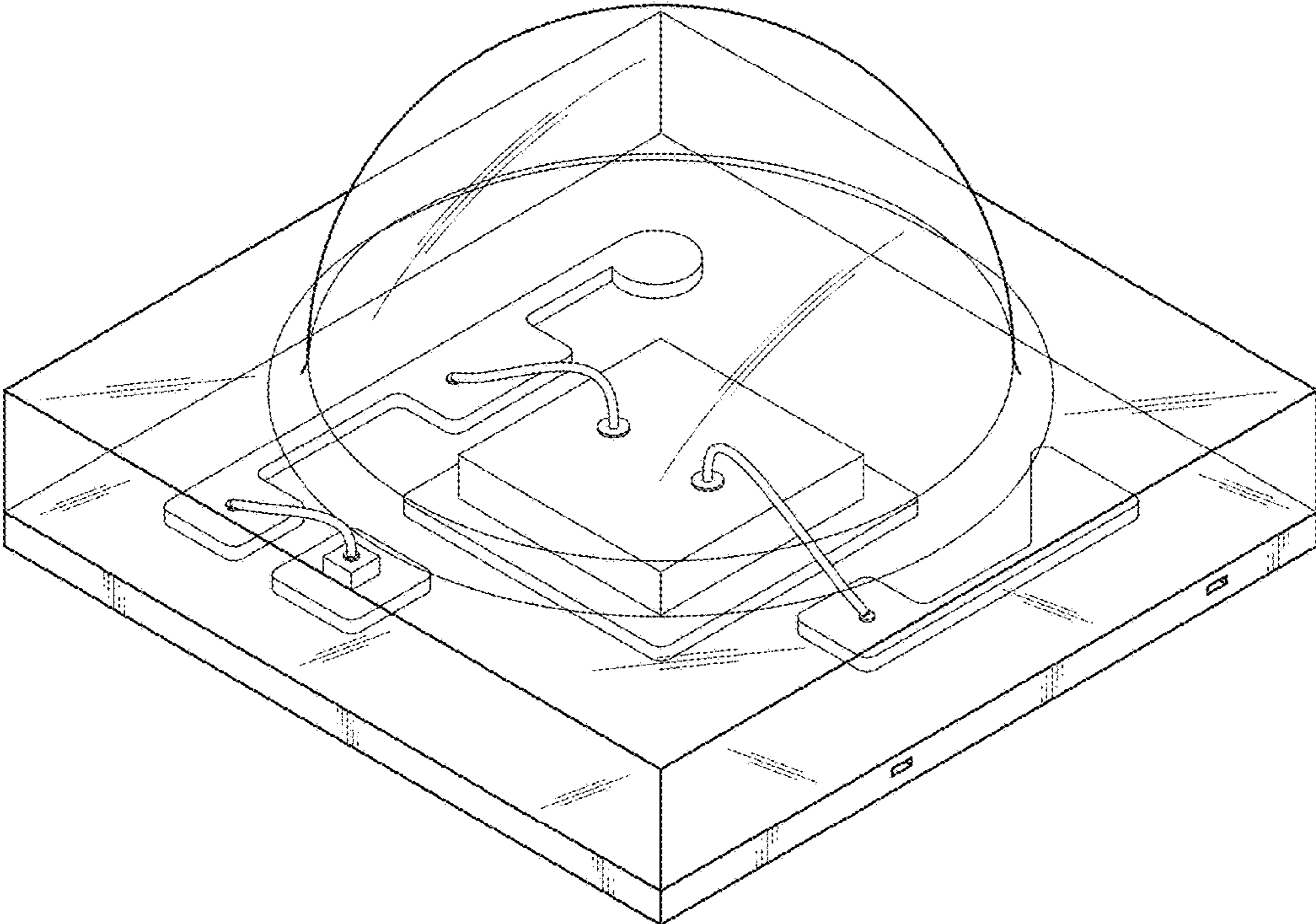


FIG. 10

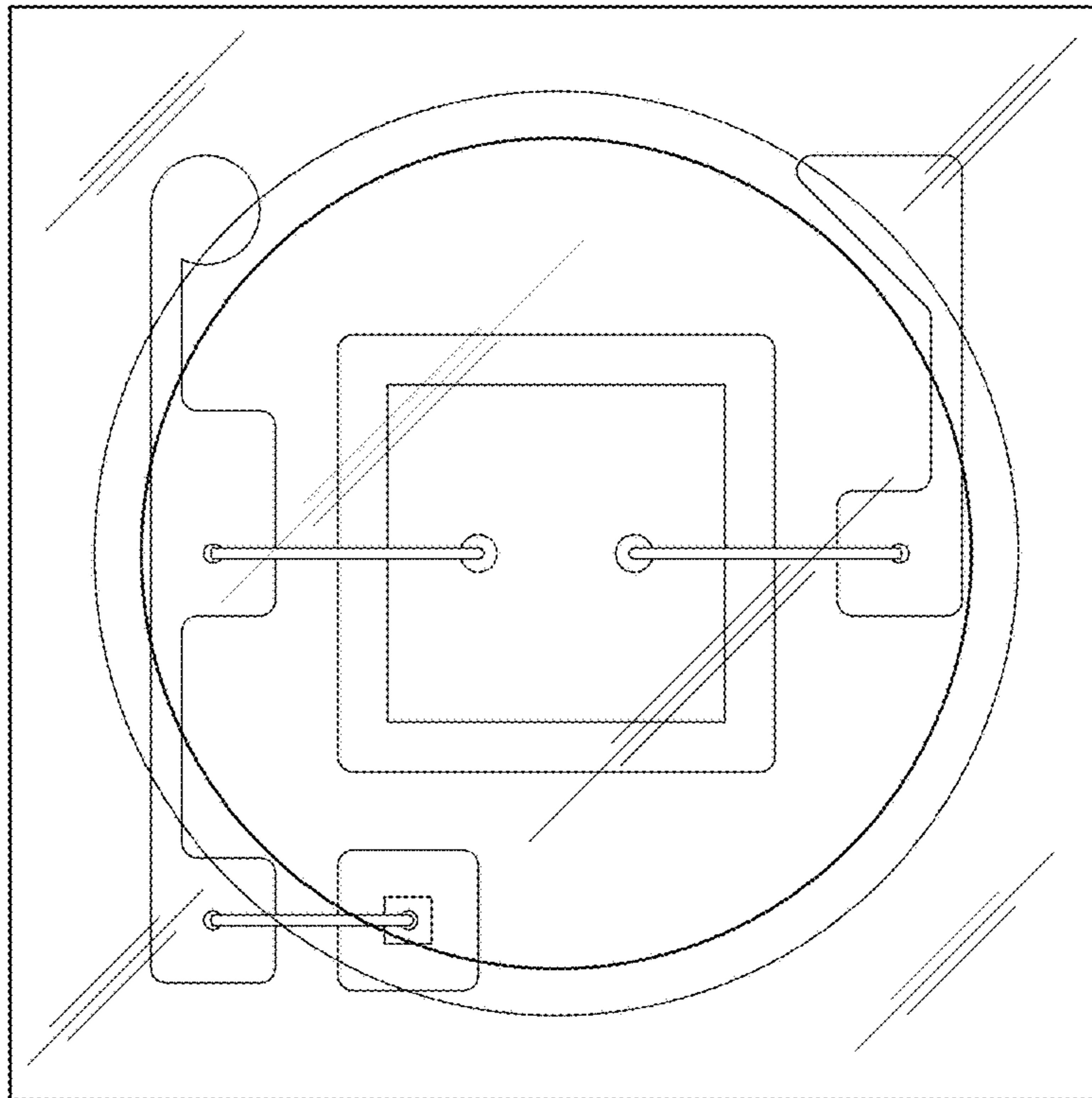


FIG. 11

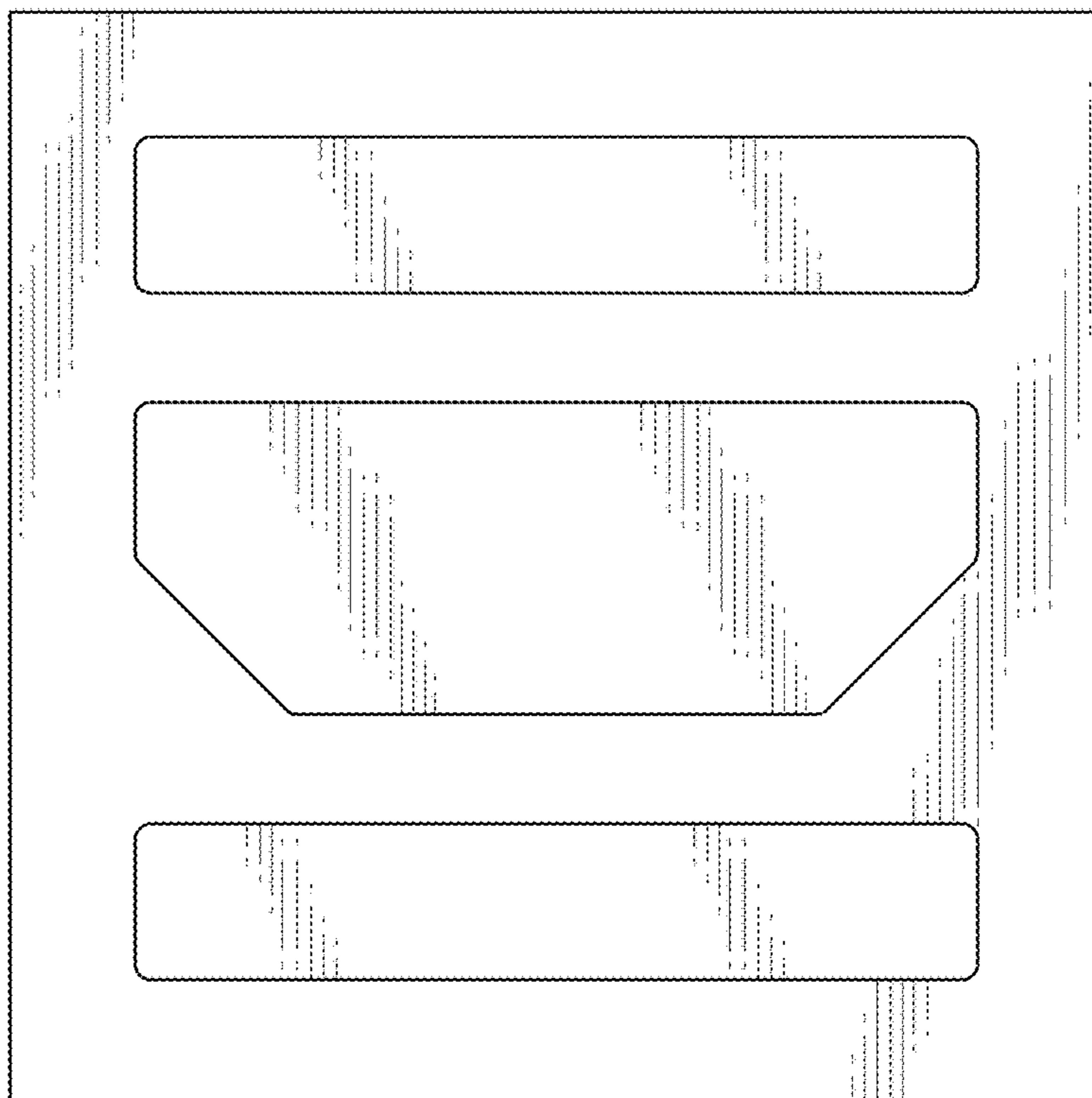


FIG. 12

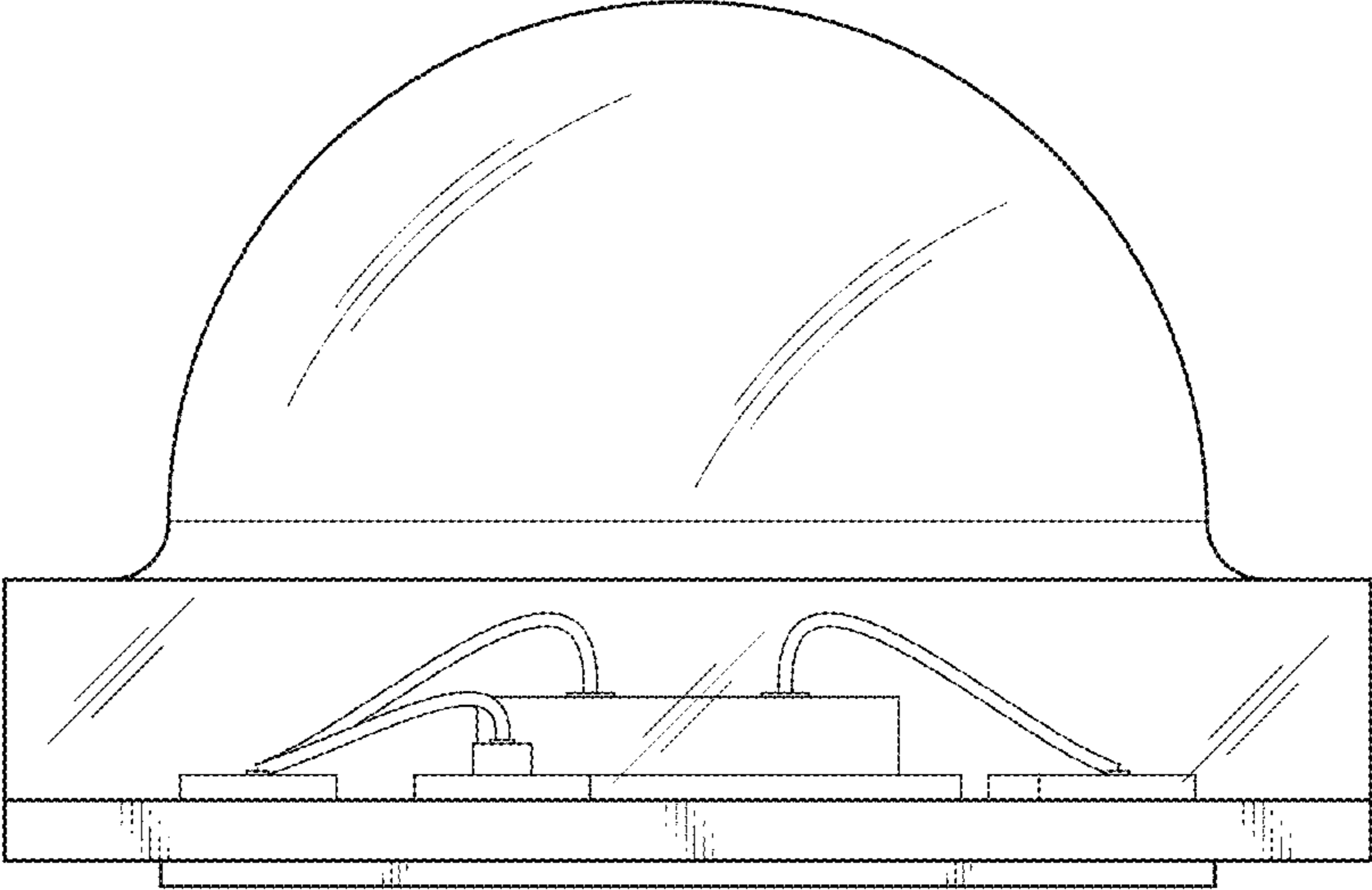


FIG. 13

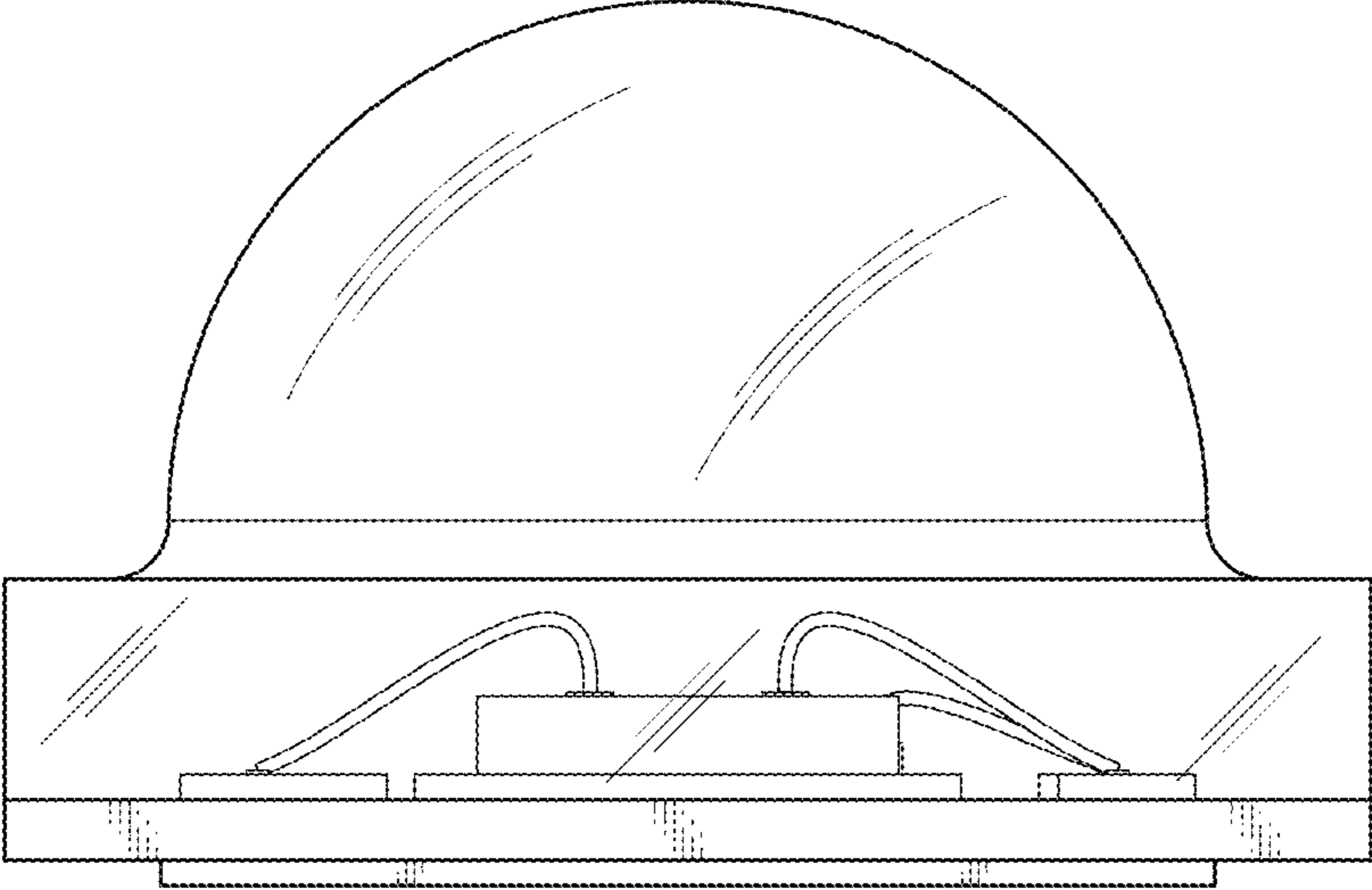


FIG. 14

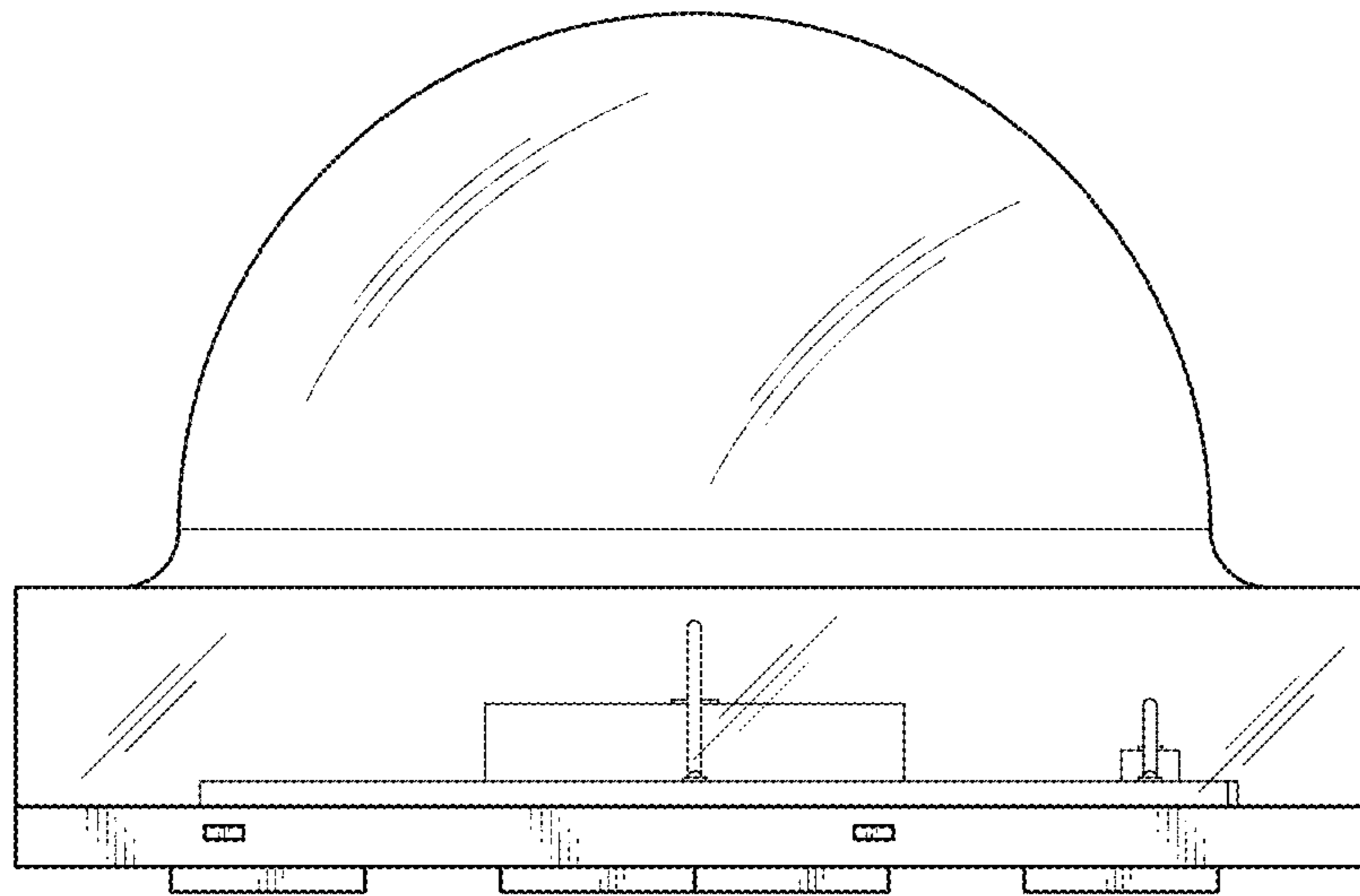


FIG. 15

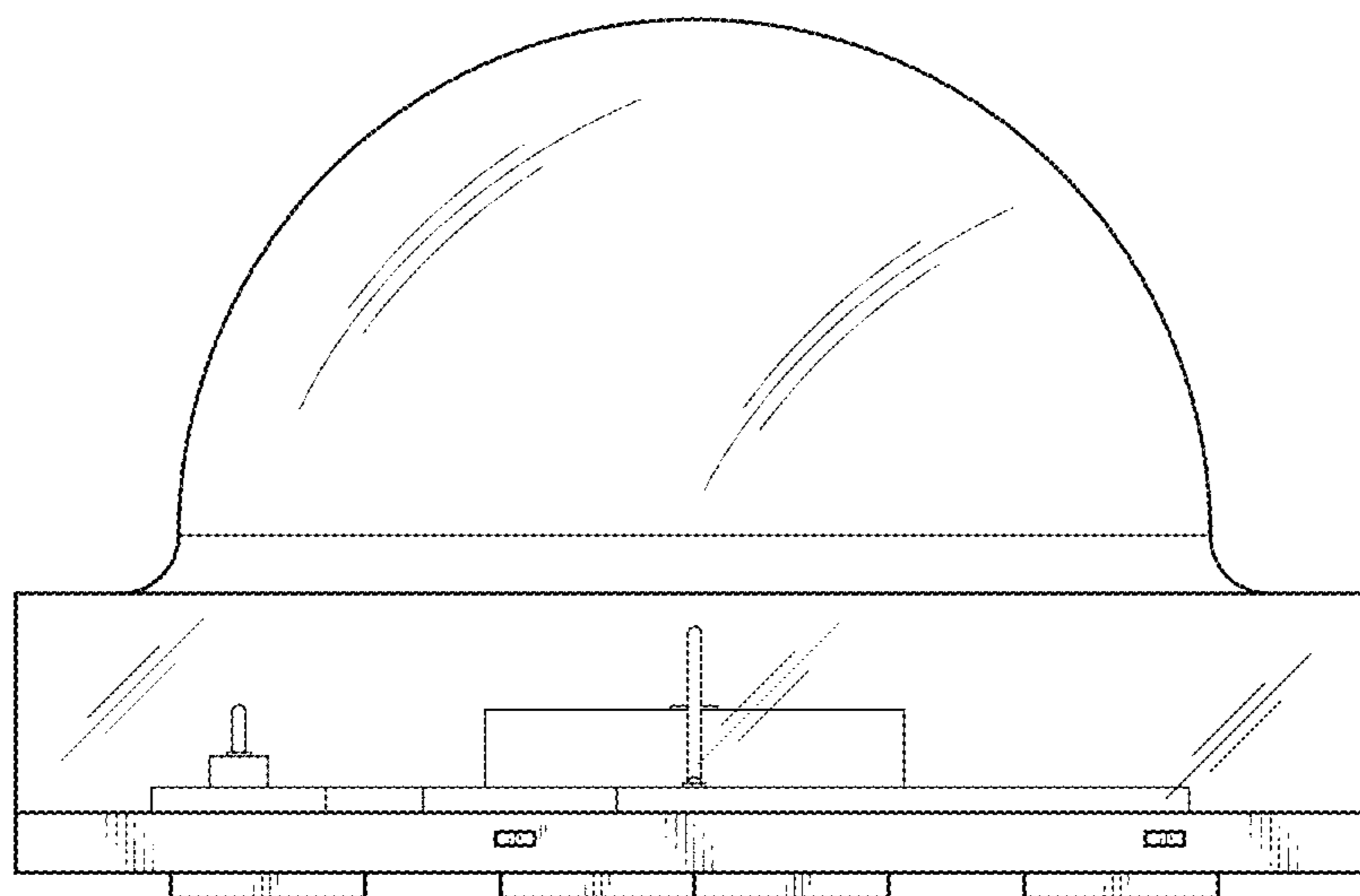


FIG. 16

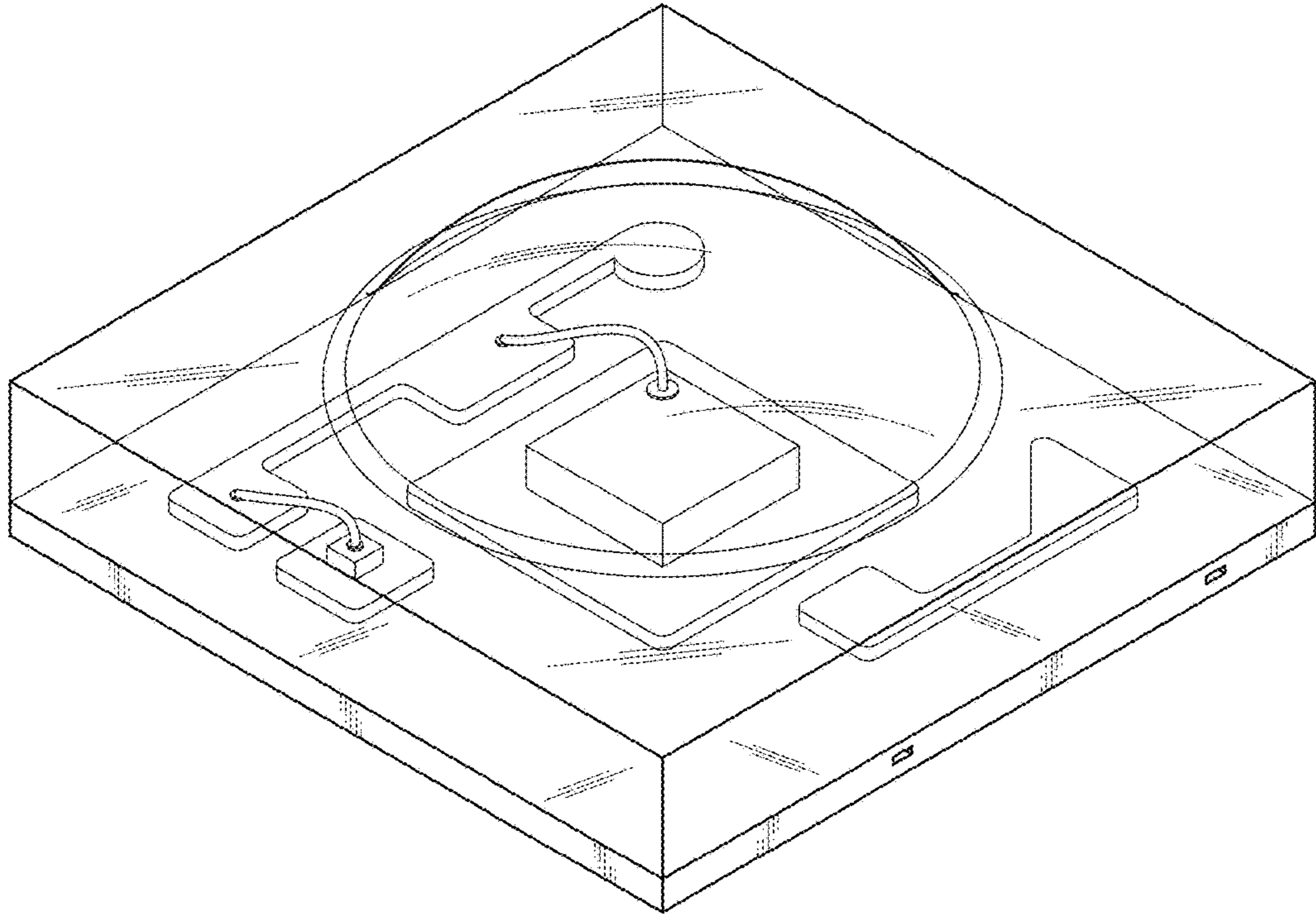


FIG. 17

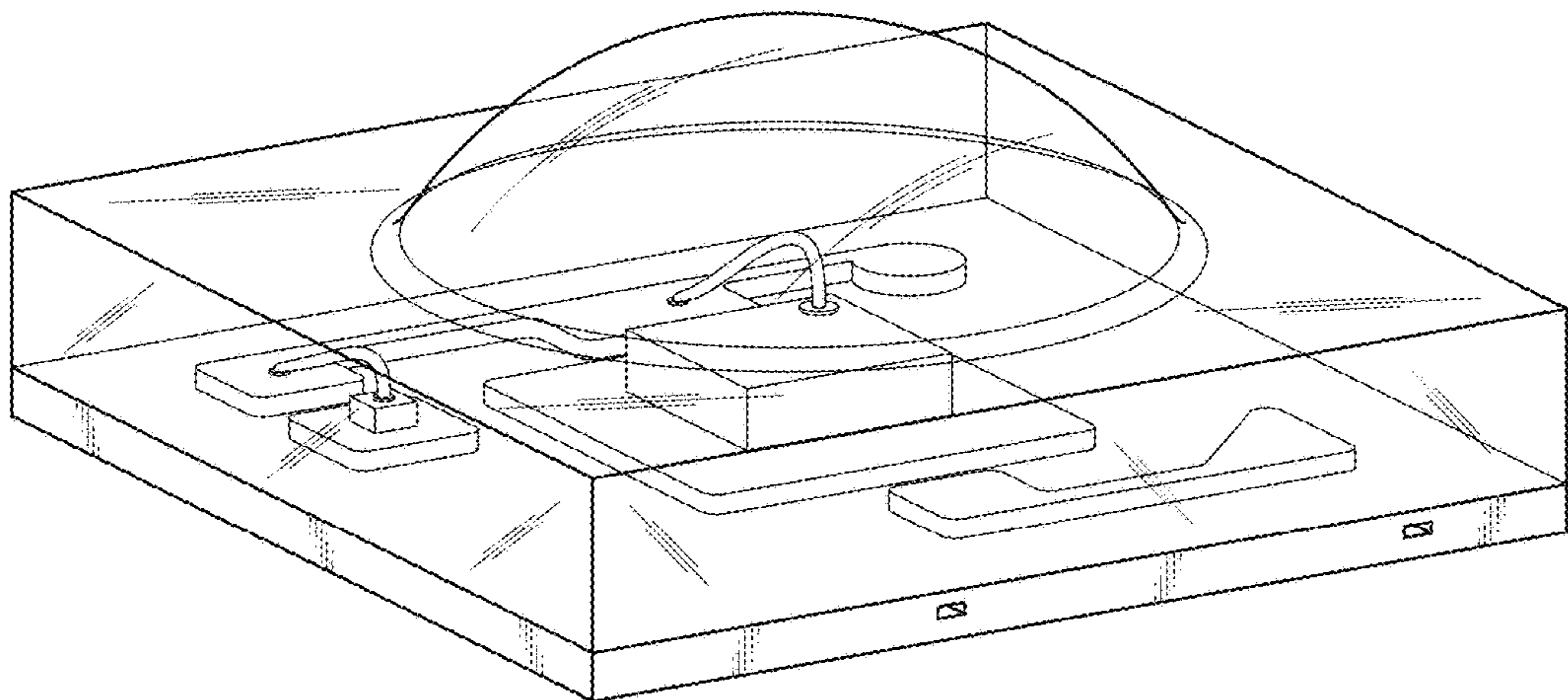


FIG. 18

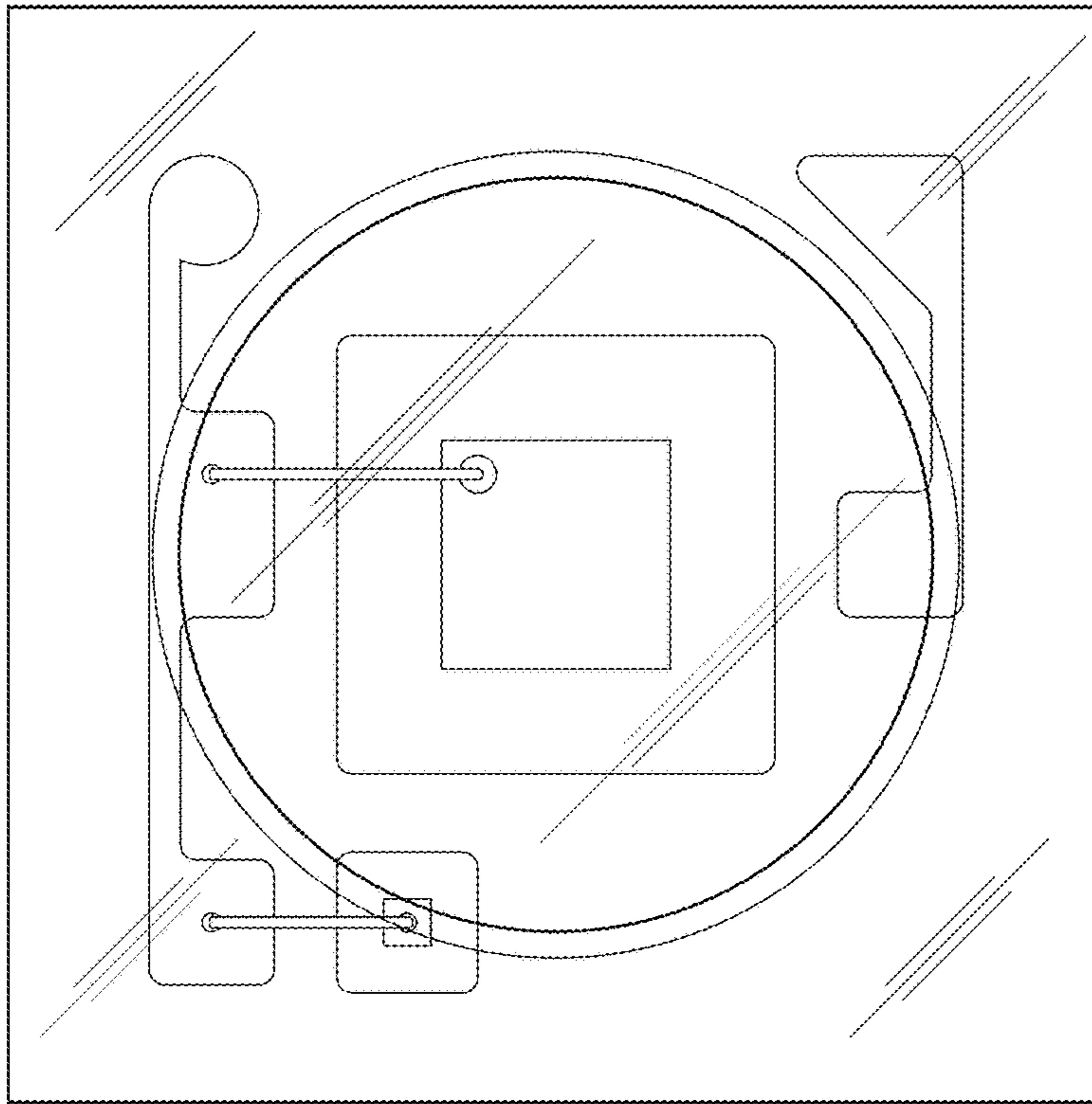


FIG. 19

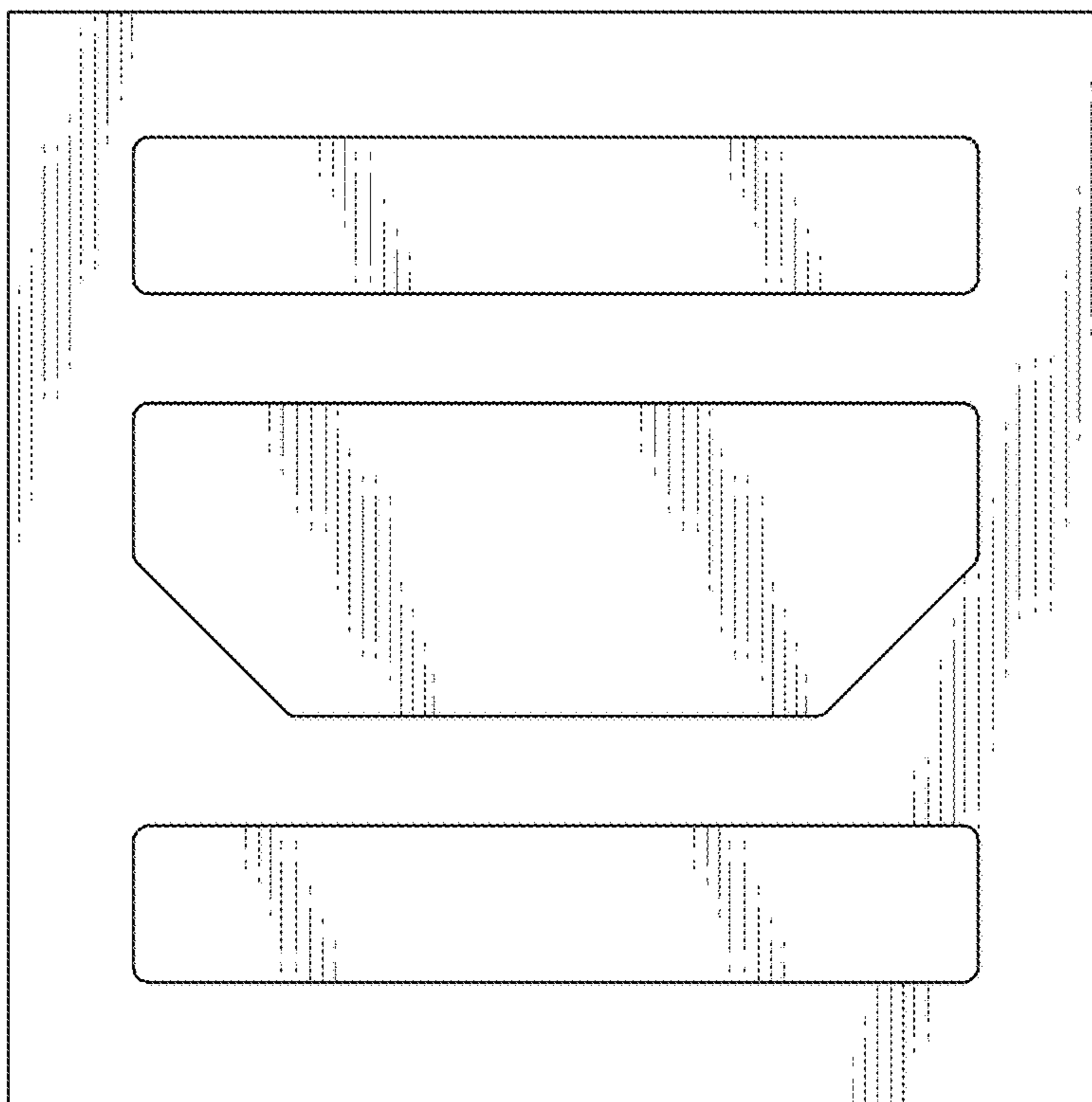


FIG. 20

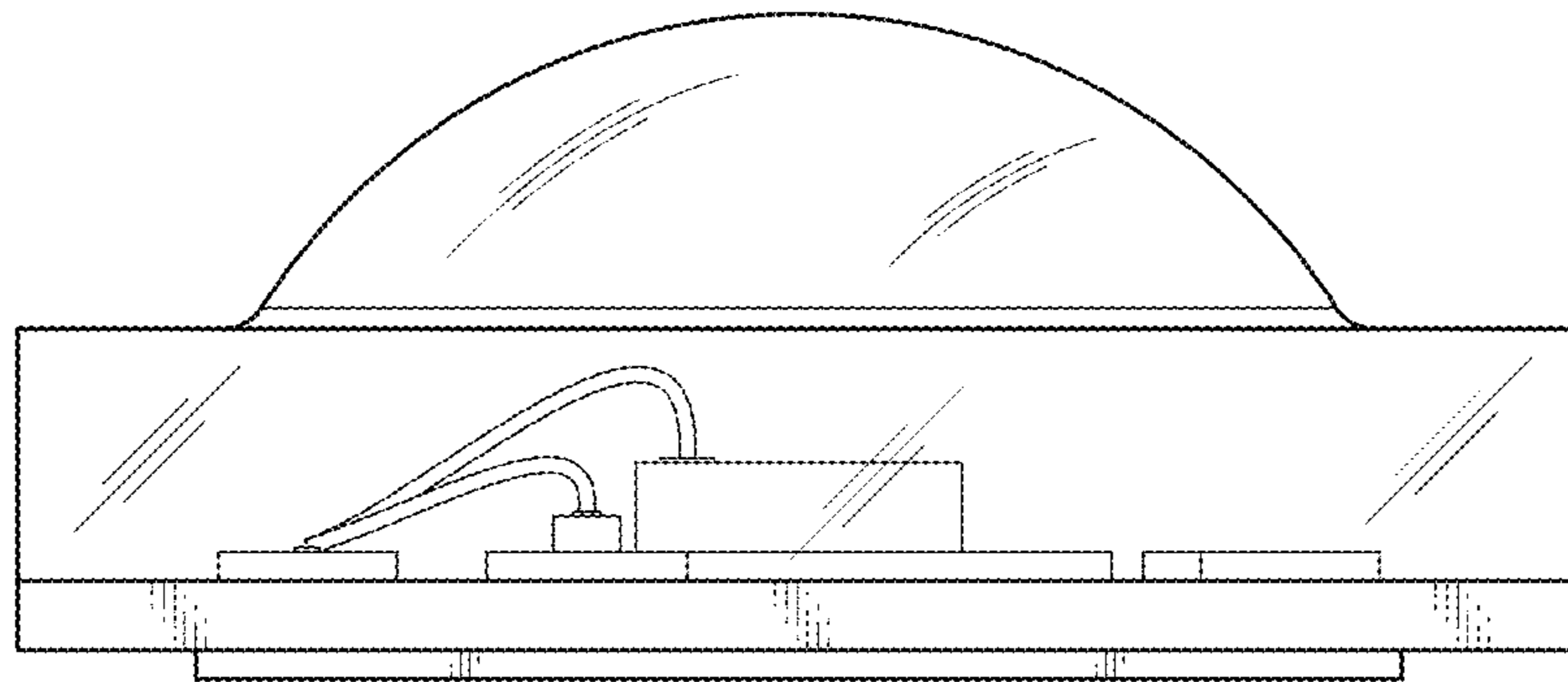


FIG. 21

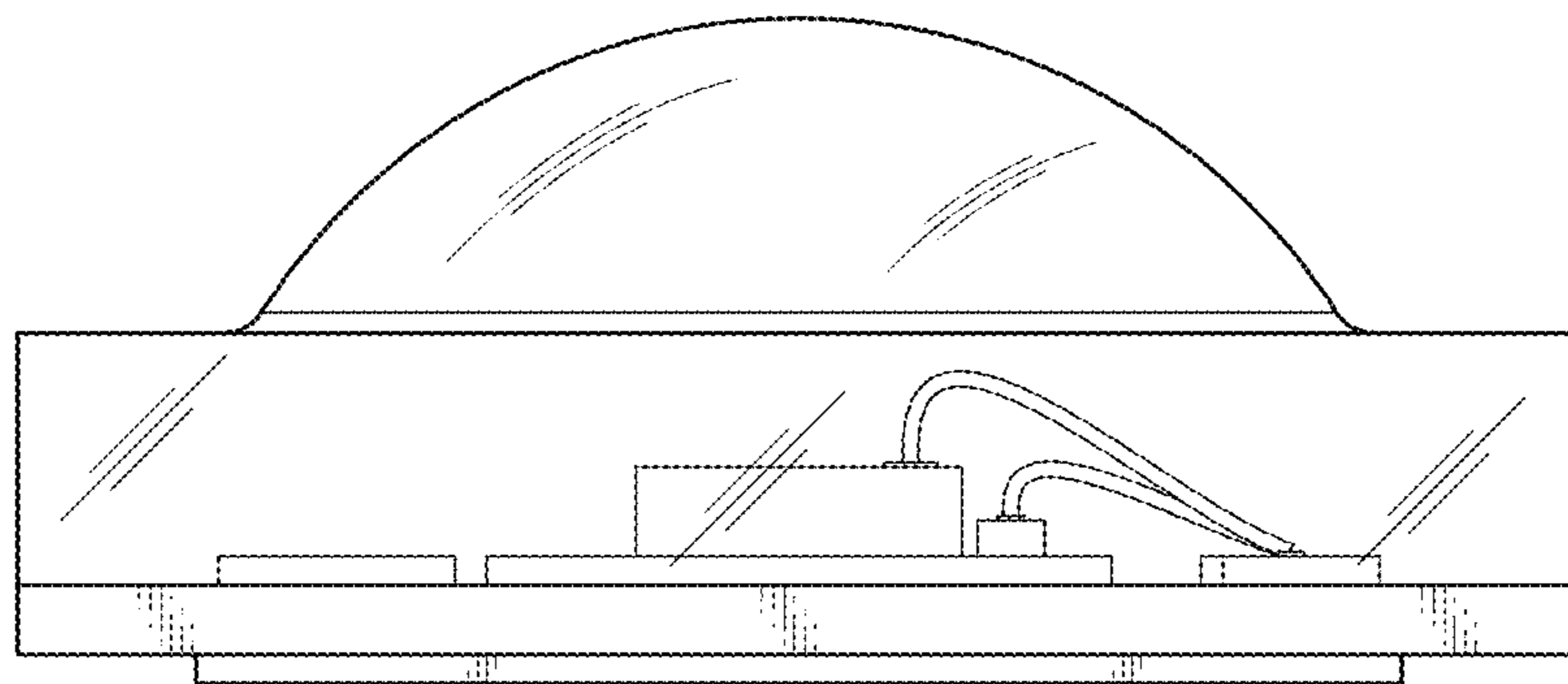


FIG. 22

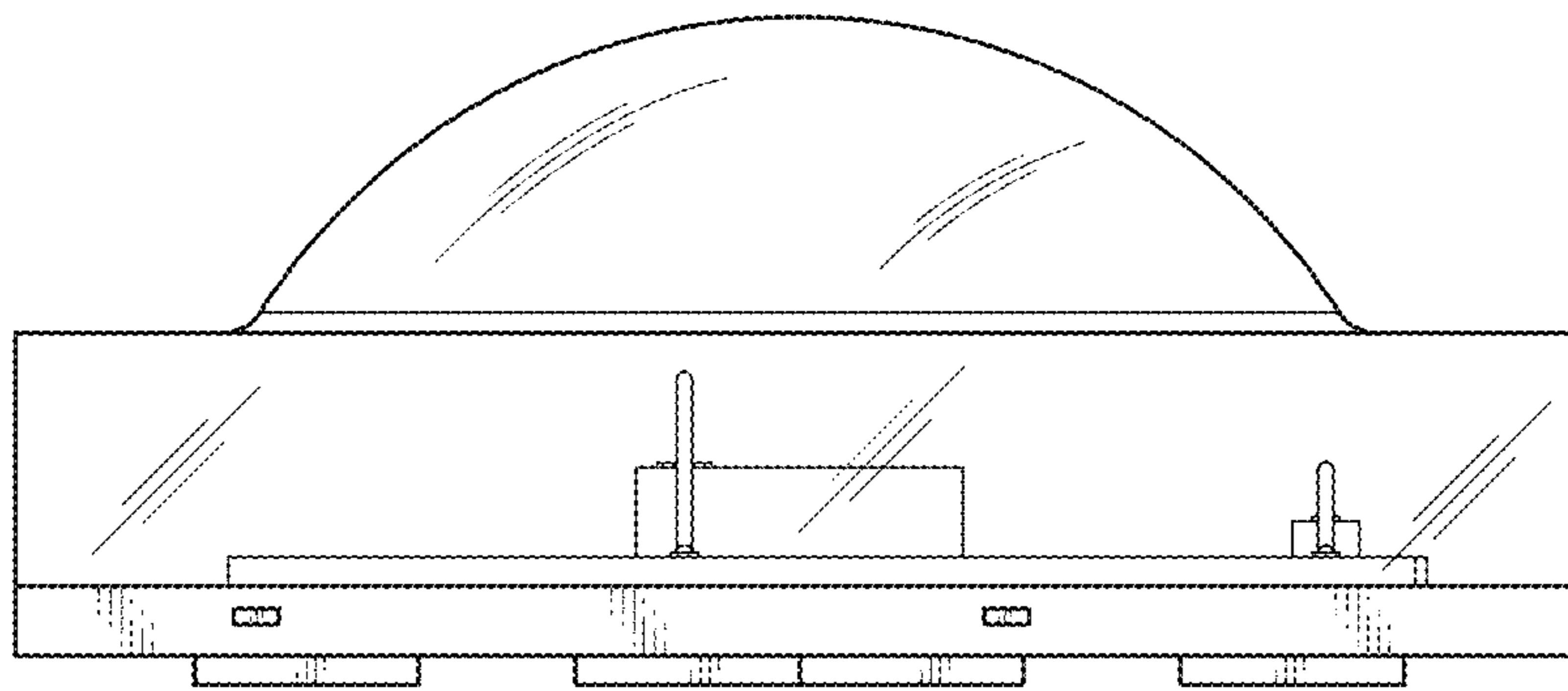


FIG. 23

