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

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(54) **LIGHT EMITTING DIODE**

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

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(51) **LOC (10) Cl.** **13-03**

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

(58) **Field of Classification Search**
USPC D13/180; D26/1
CPC ... H01L 25/167; H01L 25/0753; H01L 27/15;
H01L 27/156; 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 33/483; H01L 33/4868

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,774,406 B2 * 8/2004 Isoda 257/99
D531,140 S * 10/2006 Konno et al. D13/180
D555,114 S * 11/2007 Yen D13/180
D568,835 S * 5/2008 Nishida et al. D13/180
D574,791 S * 8/2008 Shimozawa D13/180

D580,891 S * 11/2008 Sung et al. D13/180
D601,977 S * 10/2009 Tsuchiya D13/180
D602,451 S * 10/2009 Gielen D13/180
D610,100 S * 2/2010 Chang et al. D13/180
D622,232 S * 8/2010 Lai et al. D13/180
D622,679 S * 8/2010 Hsieh D13/180
D626,096 S * 10/2010 Ying et al. D13/180
D634,282 S * 3/2011 Wilson D13/180
D653,629 S * 2/2012 Miyashita D13/180

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — Li & Cai Intellectual
Property (USA) Office

(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective view of a first embodiment of a light
emitting diode showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof;

FIG. 8 is a perspective view viewed from another visual angle
thereof;

FIG. 9 is a perspective view of a second embodiment thereof;

FIG. 10 is a front view thereof;

FIG. 11 is a rear view thereof;

FIG. 12 is a left side view thereof;

FIG. 13 is a right side view thereof;

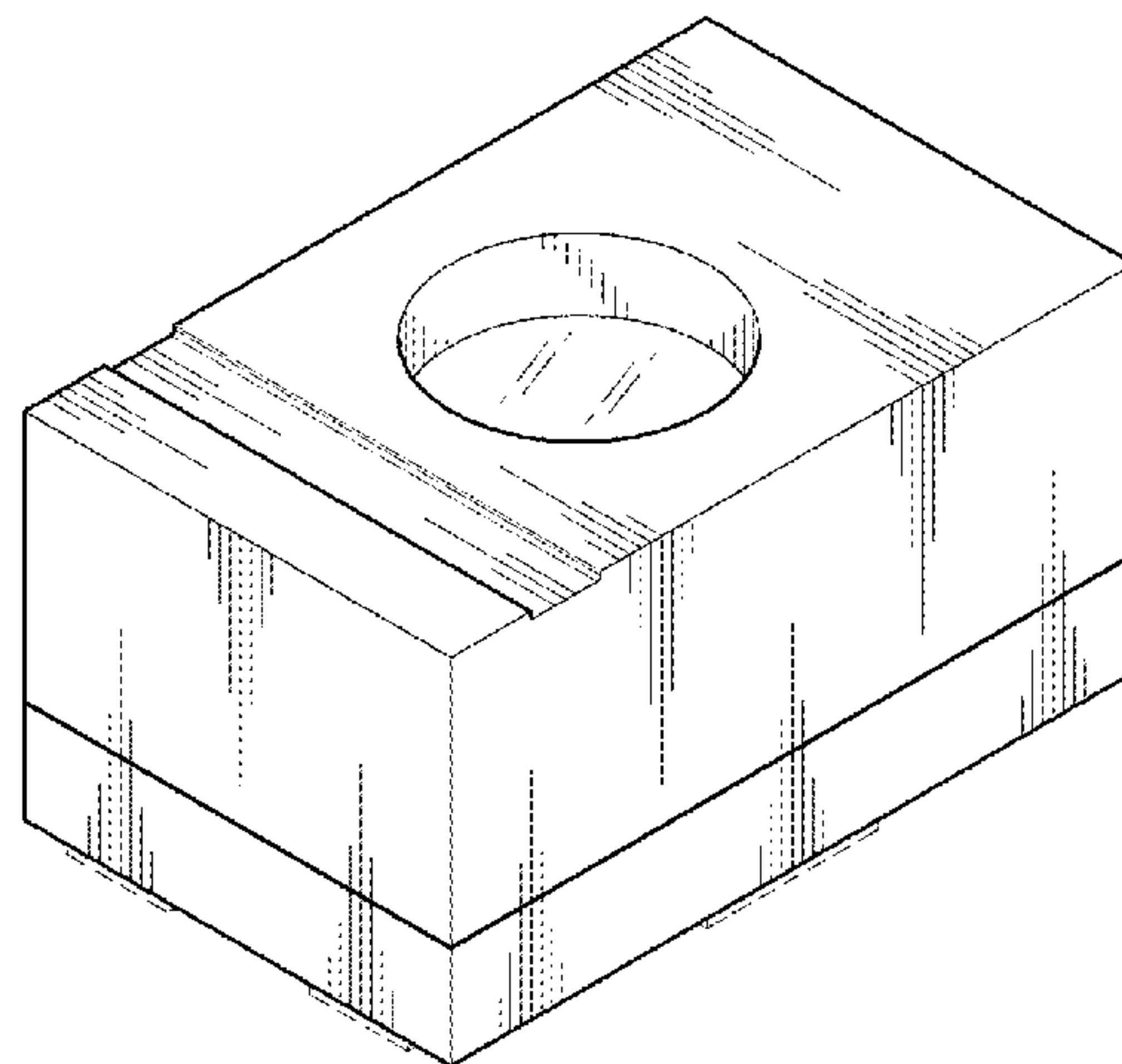
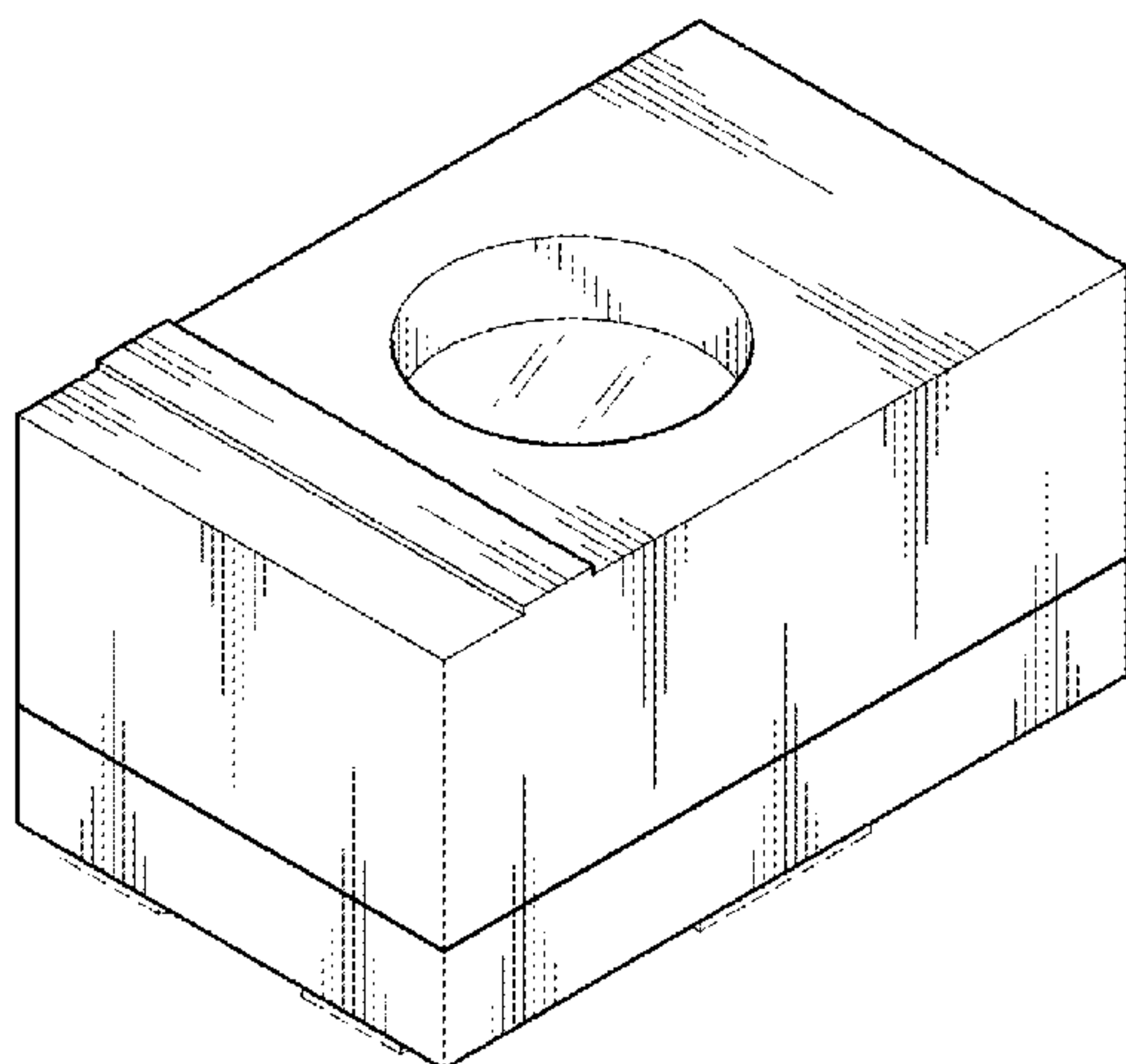
FIG. 14 is a top view thereof;

FIG. 15 is a bottom view thereof; and,

FIG. 16 is a perspective view viewed from another visual
angle thereof.

The broken lines depict portions of the light emitting diode
which form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D654,032 S * 2/2012 Yu et al. D13/180
8,220,973 B2 * 7/2012 Engl et al. 362/326
D694,201 S * 11/2013 Iino D13/180
8,716,742 B2 * 5/2014 Chou 257/99

8,772,794 B2 * 7/2014 Lee 257/88
8,860,064 B2 * 10/2014 Tanuma et al. 257/98
D719,535 S * 12/2014 Iino et al. D13/180
D724,548 S * 3/2015 Iino et al. D13/180
2007/0269927 A1 * 11/2007 Hofer et al. 438/106
2010/0307799 A1 * 12/2010 Chiang 174/255
2011/0186870 A1 * 8/2011 Ying et al. 257/88

* cited by examiner

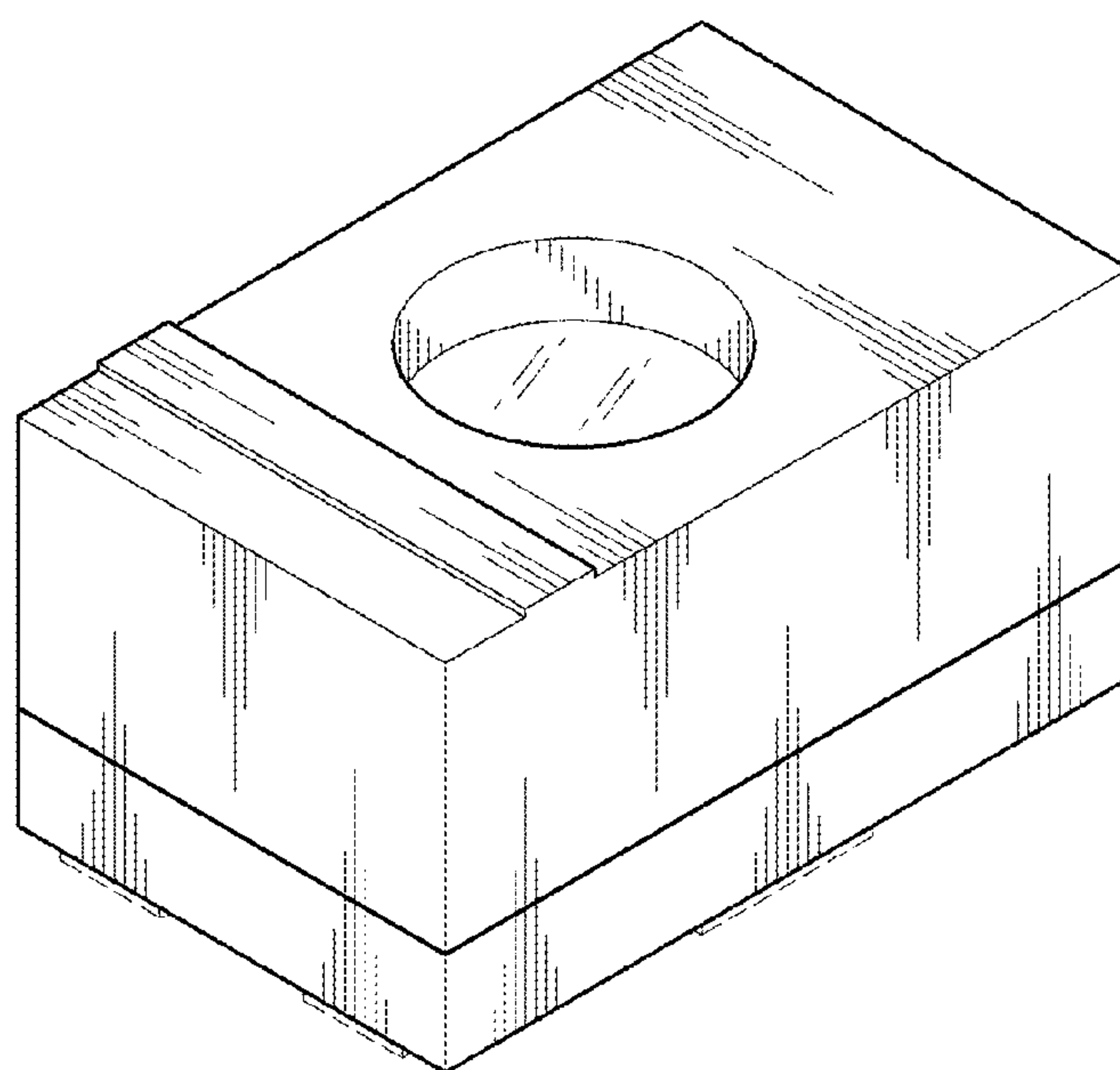


FIG.1

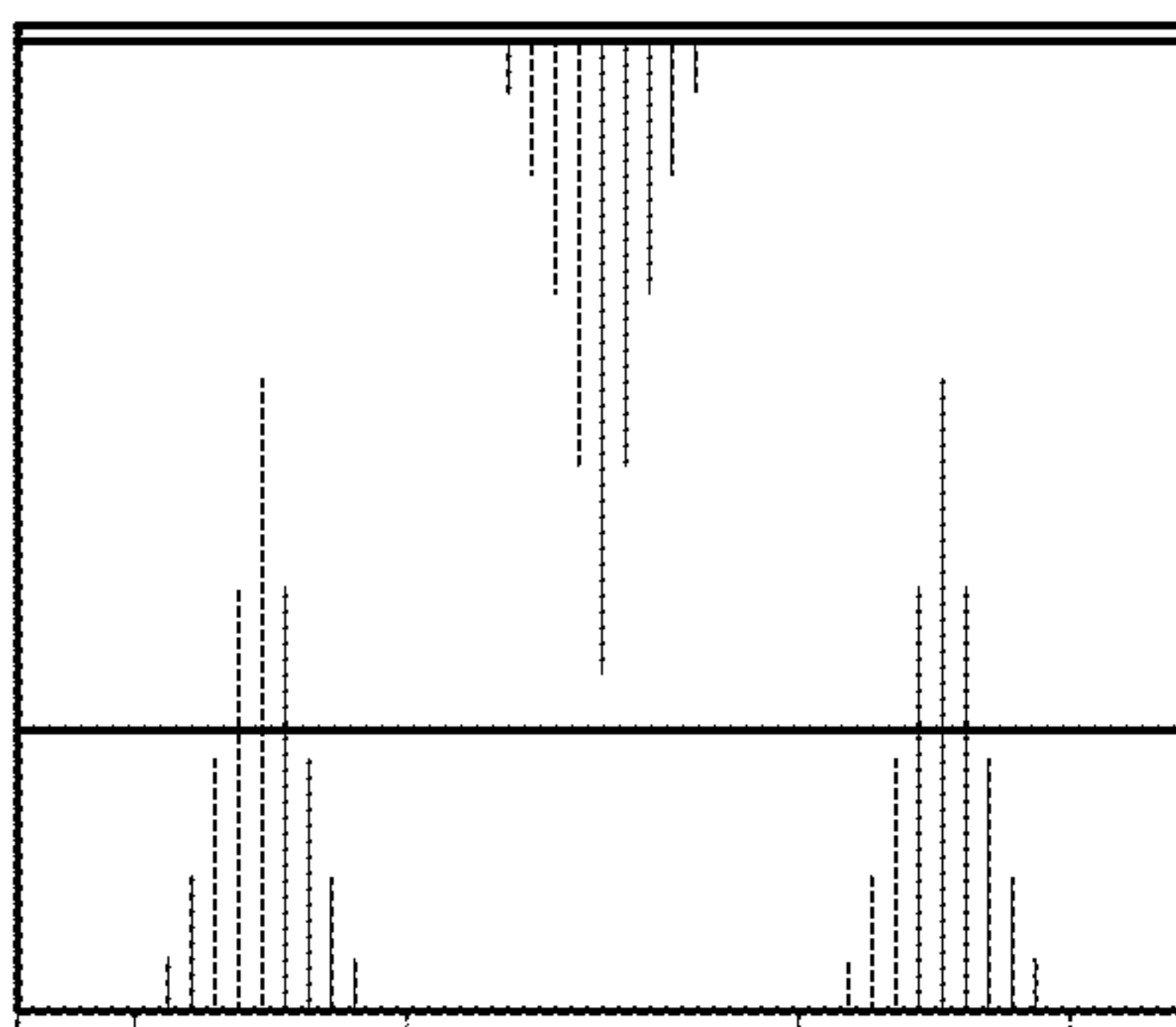


FIG. 2

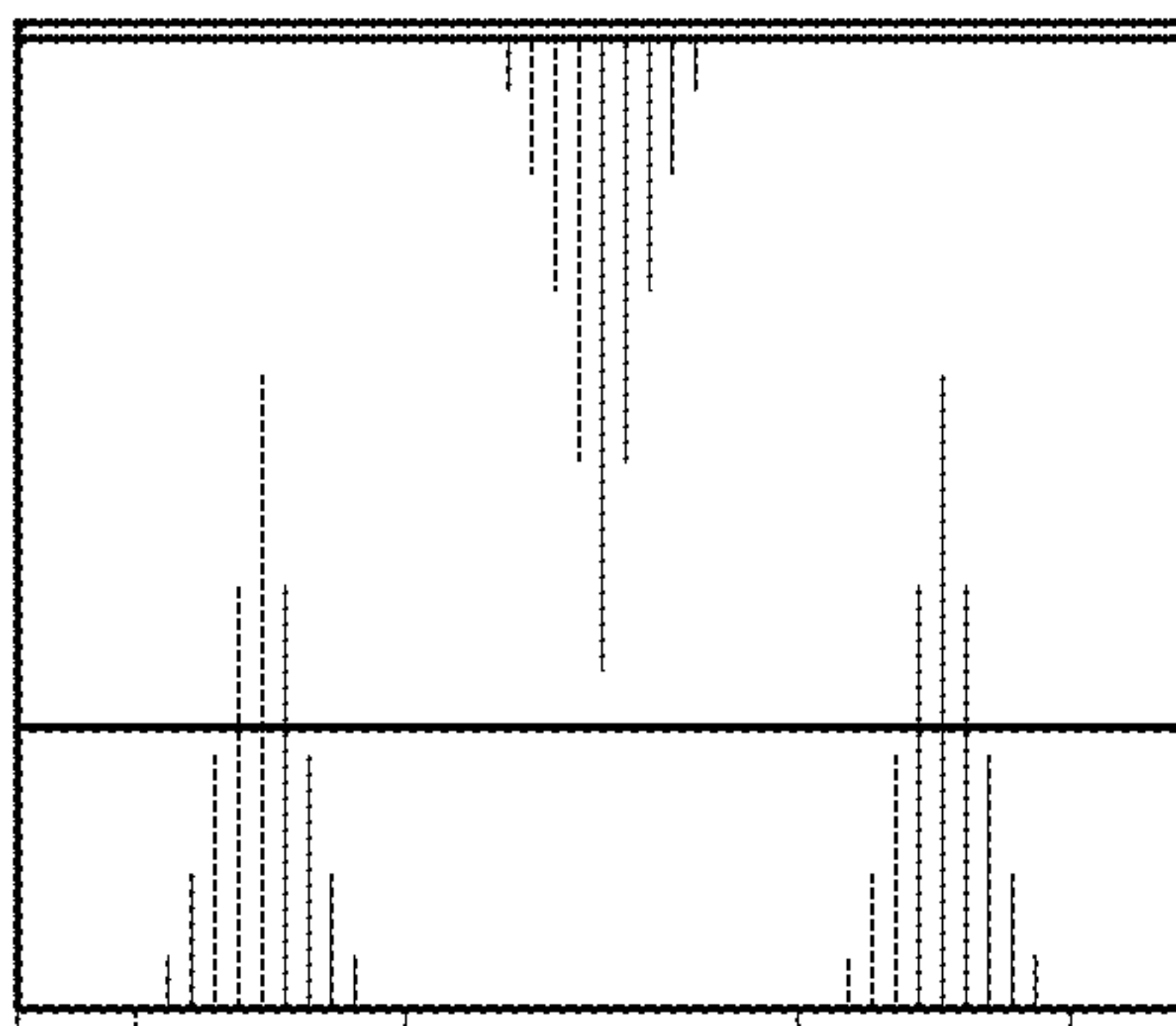


FIG. 3

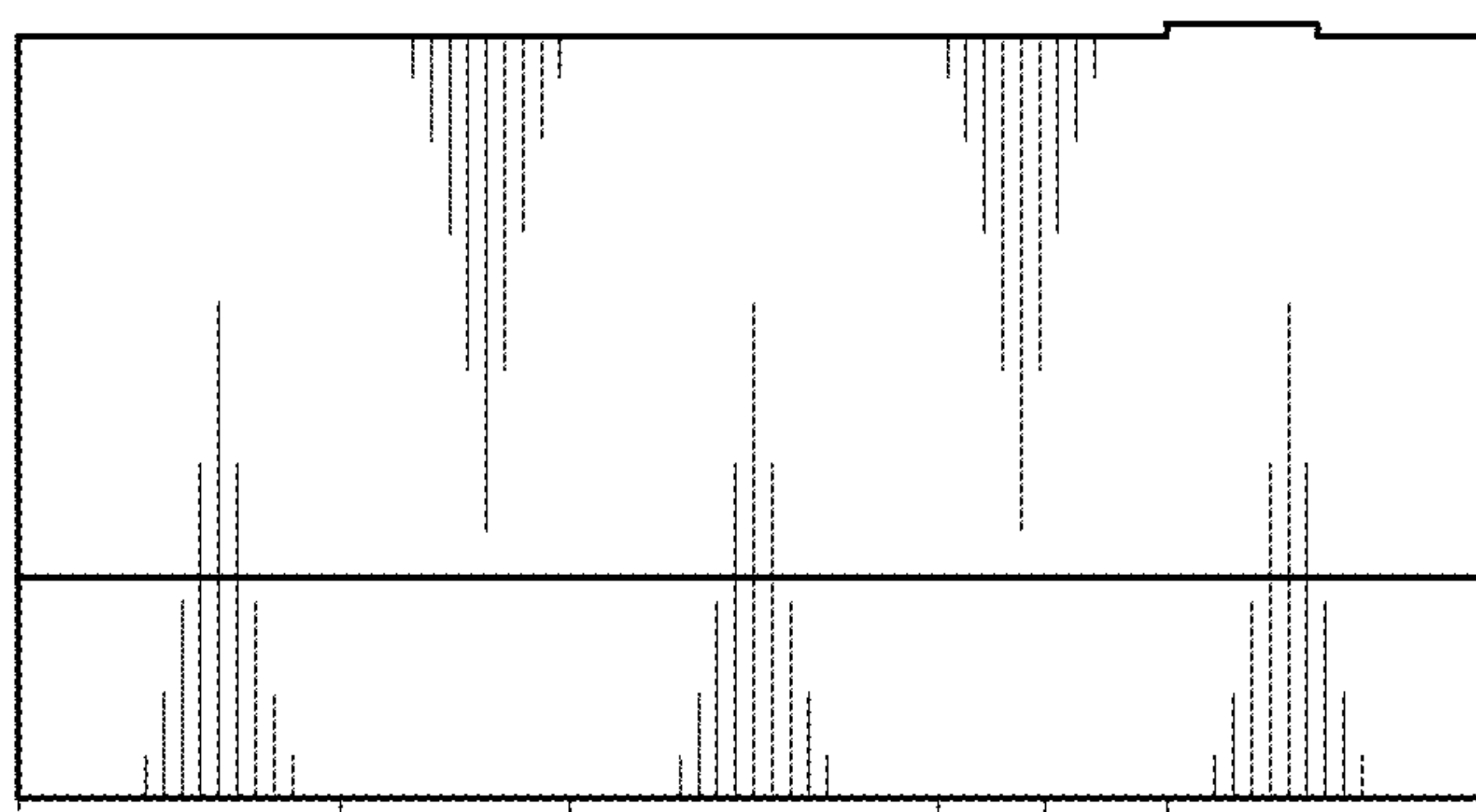


FIG.4

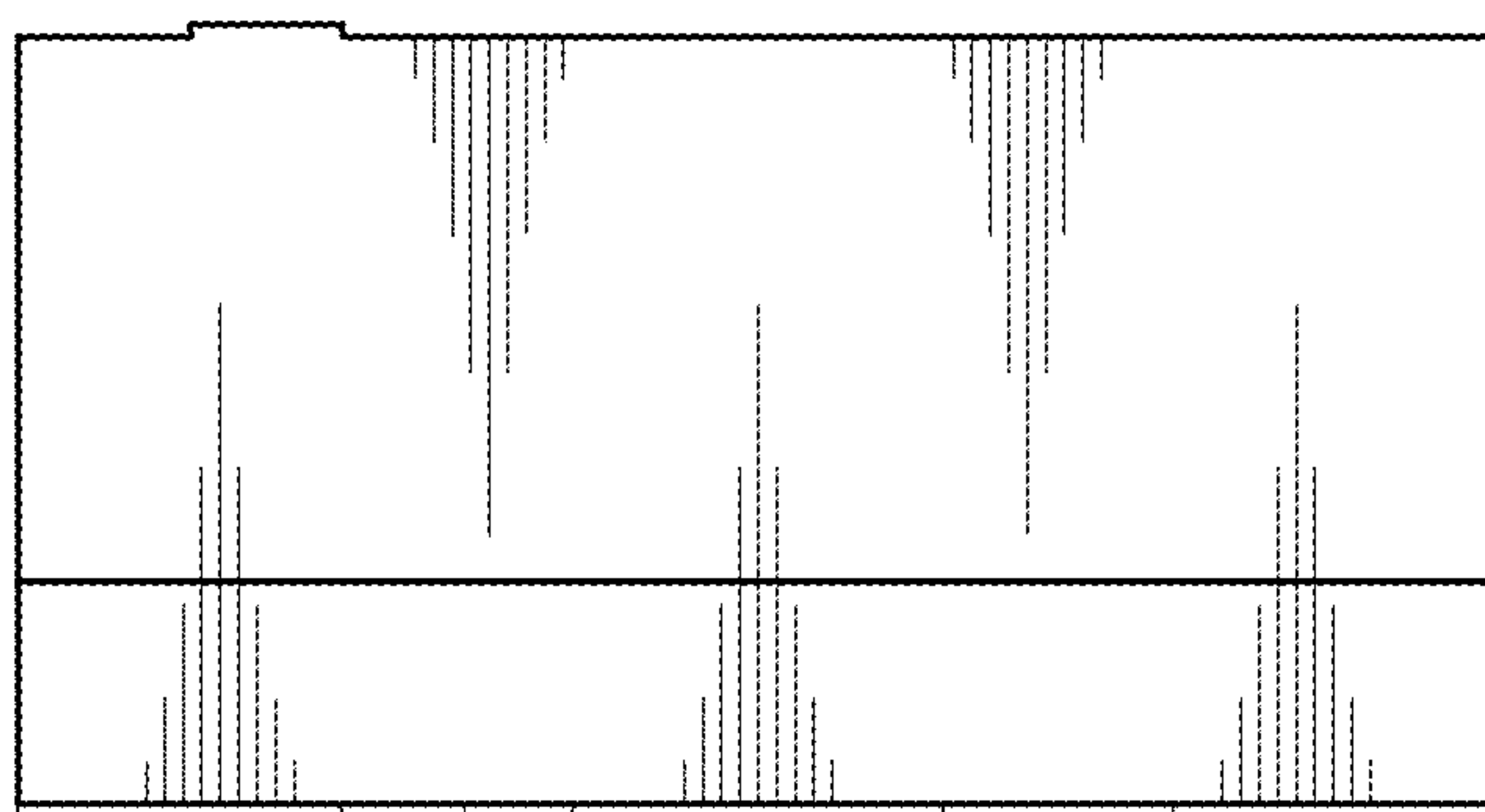


FIG.5

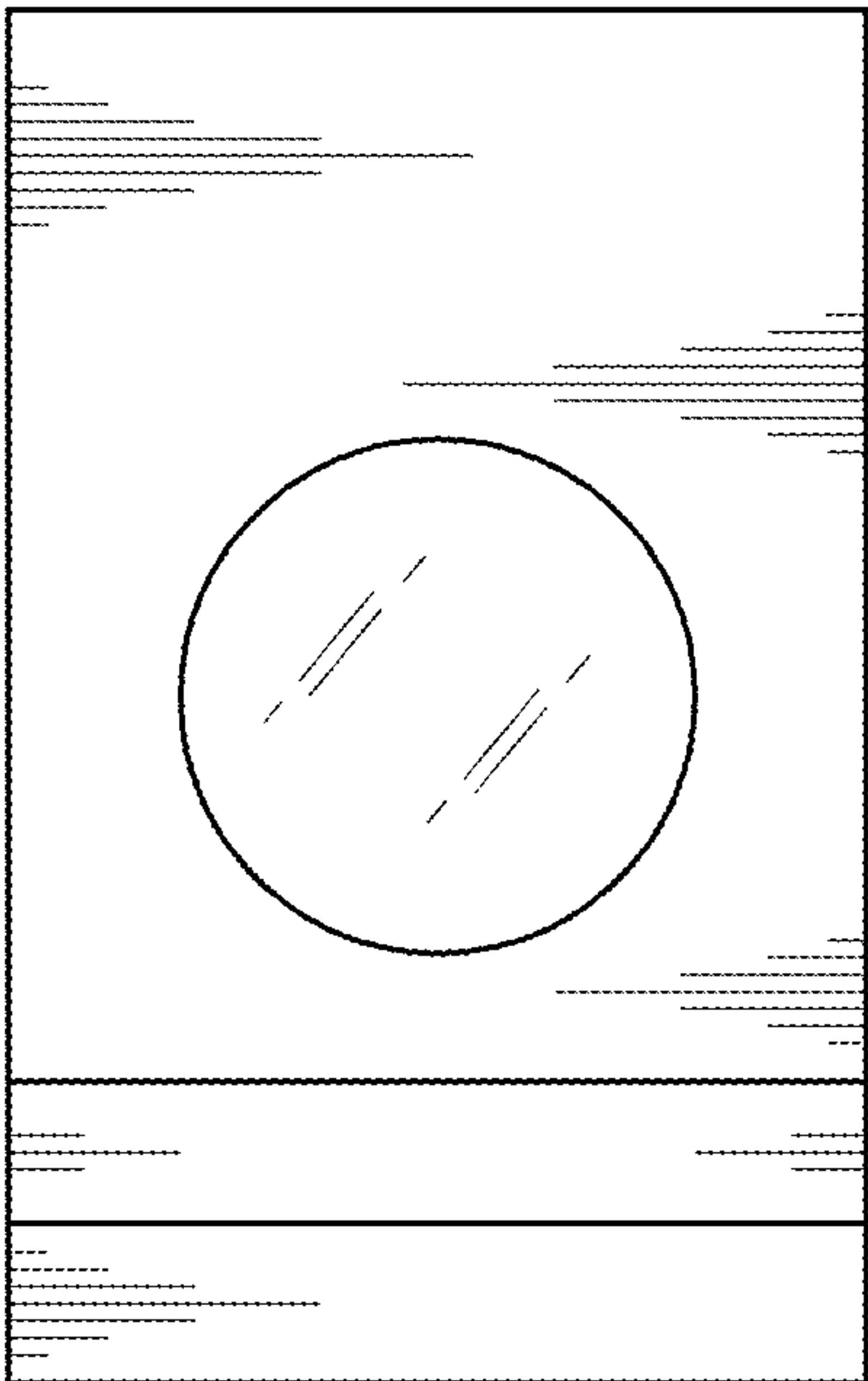


FIG.6

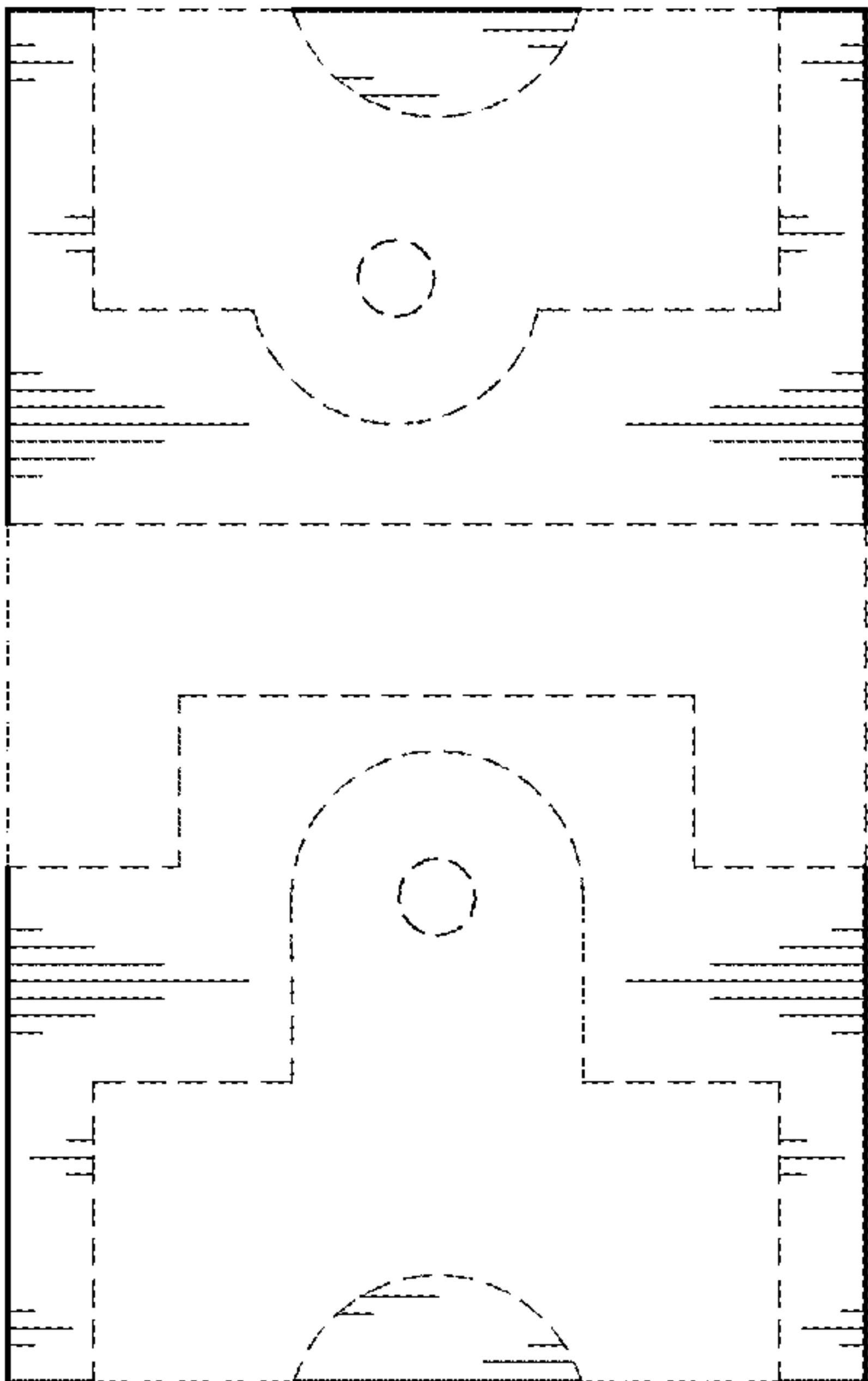


FIG.7

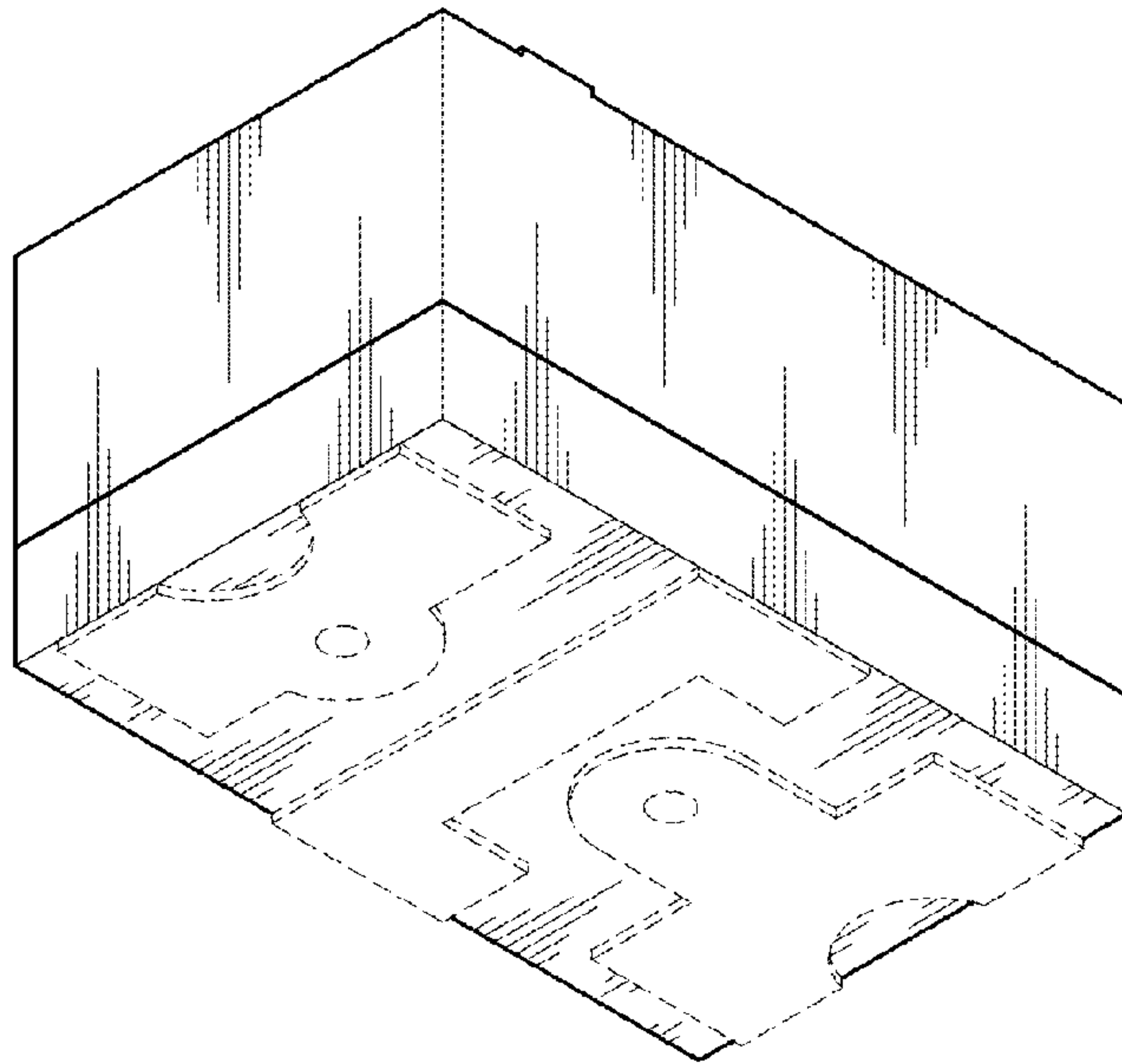


FIG.8

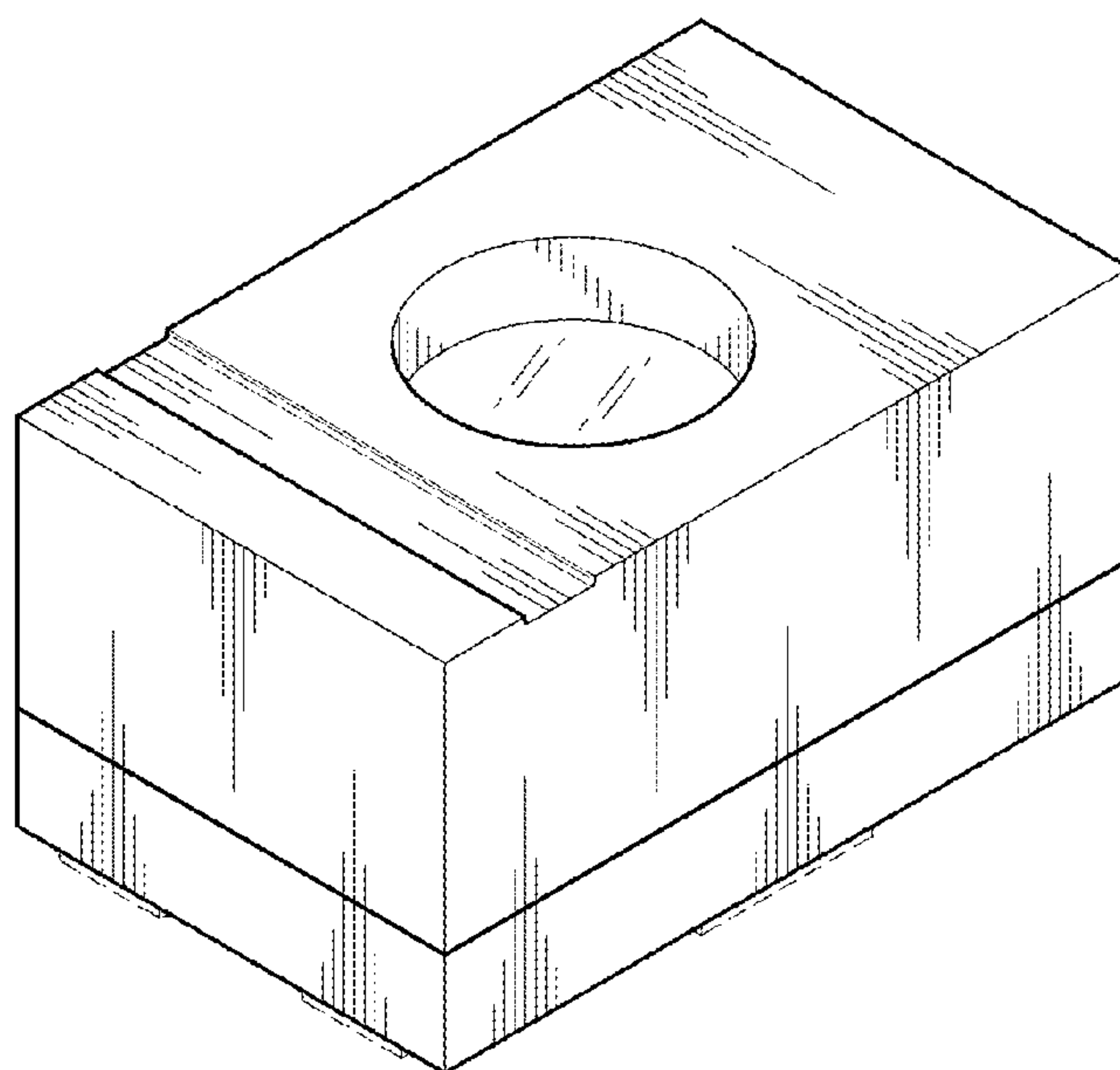


FIG.9

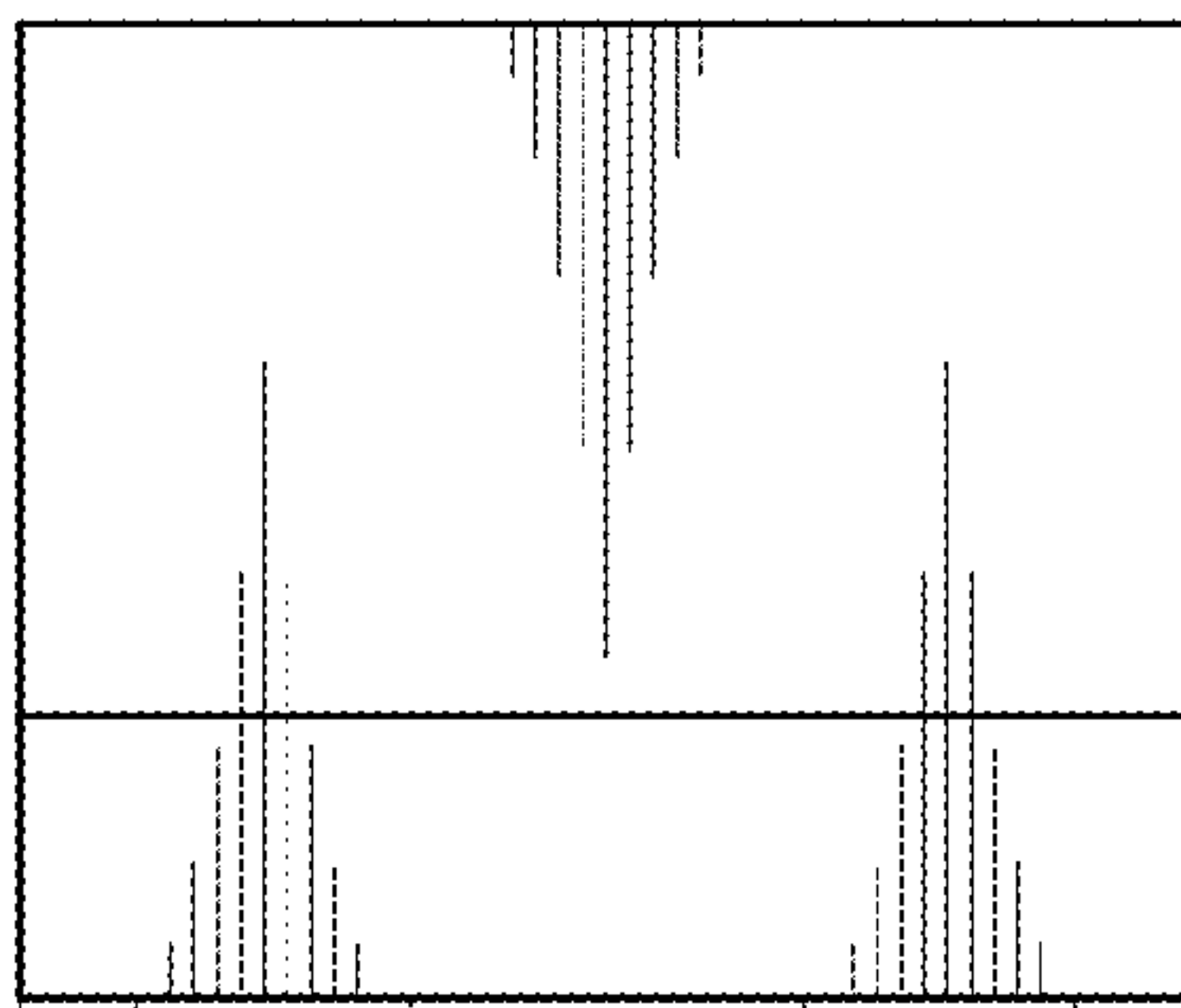


FIG.10

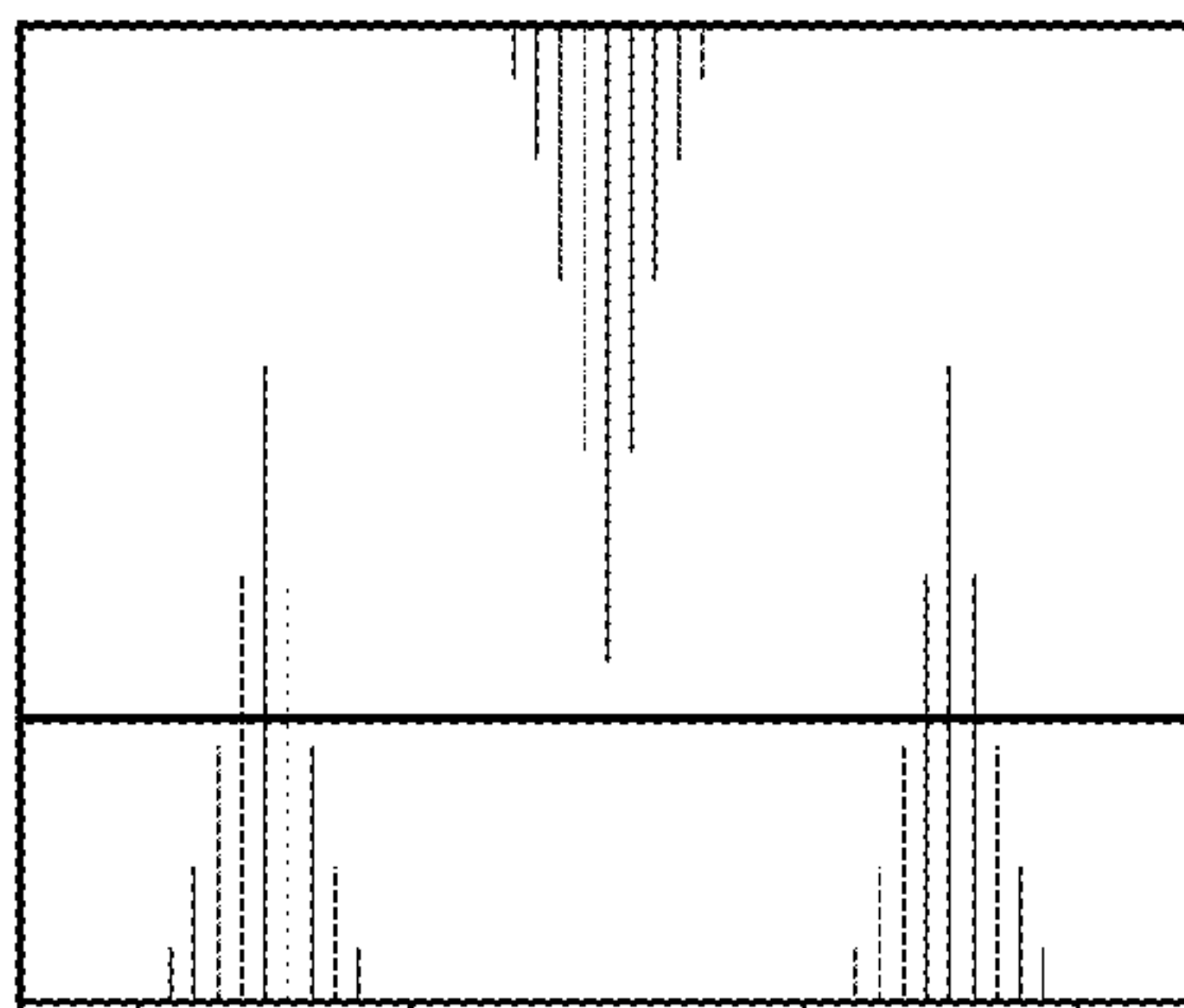


FIG.11

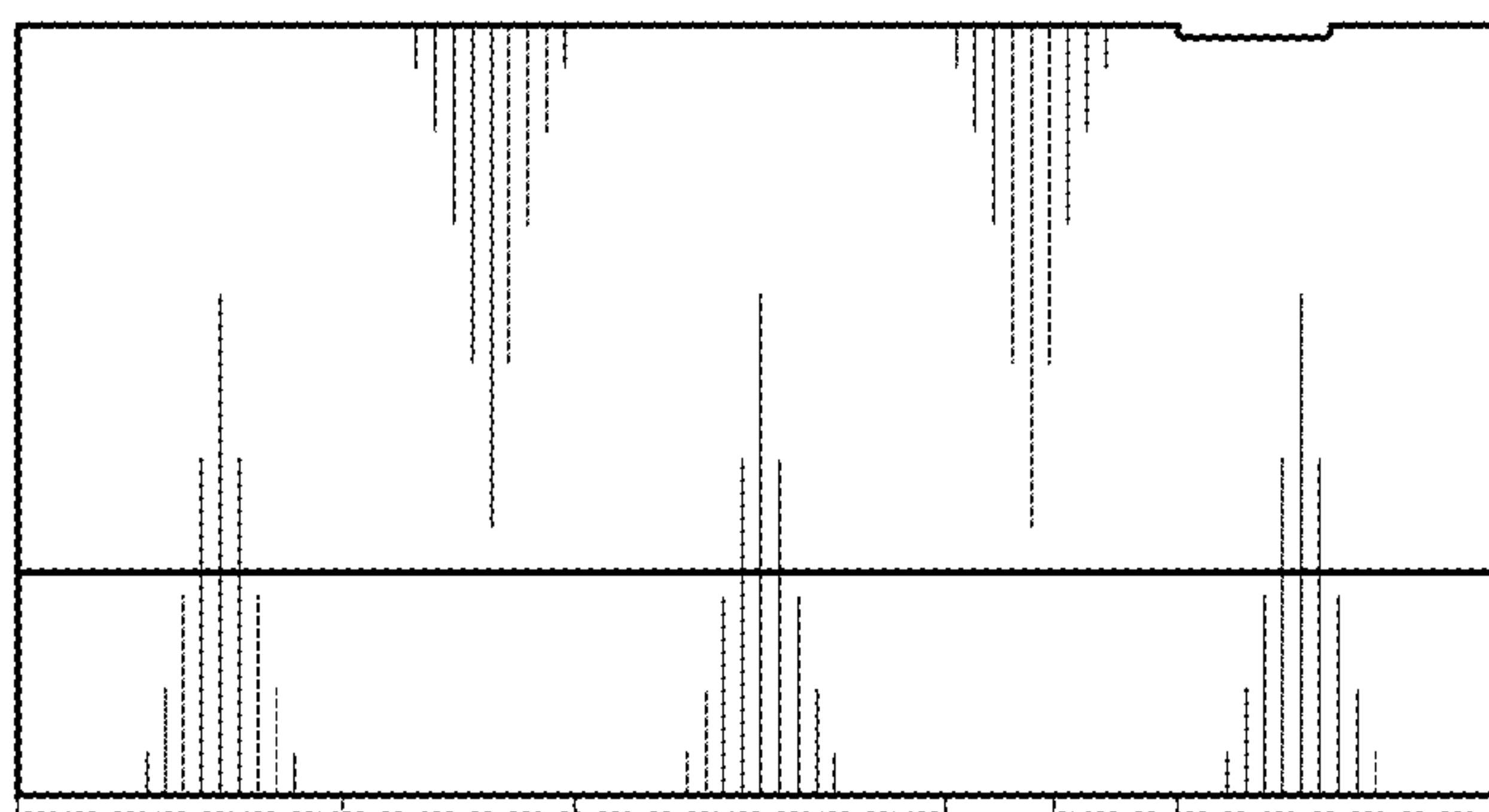


FIG.12

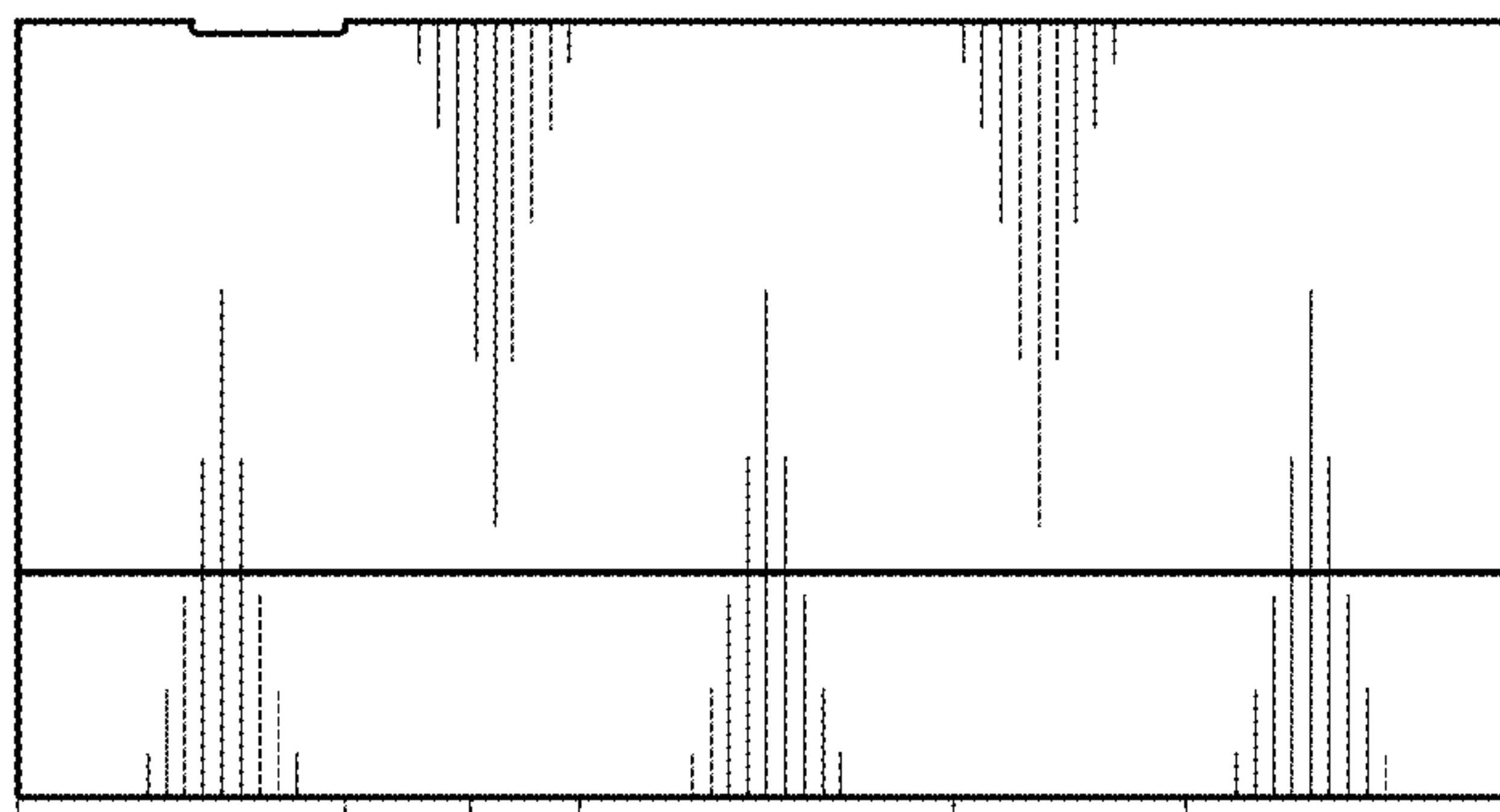


FIG.13

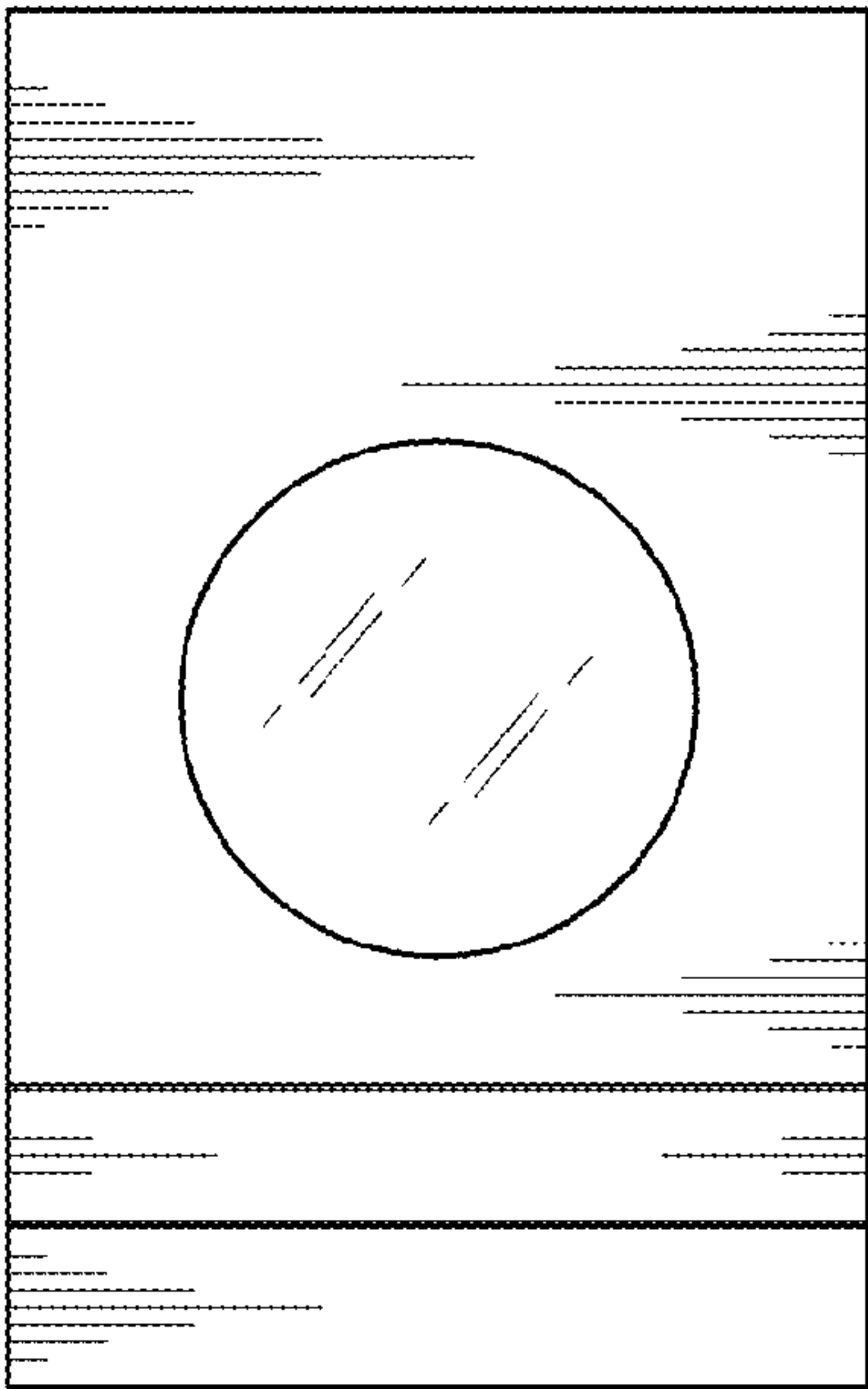


FIG.14

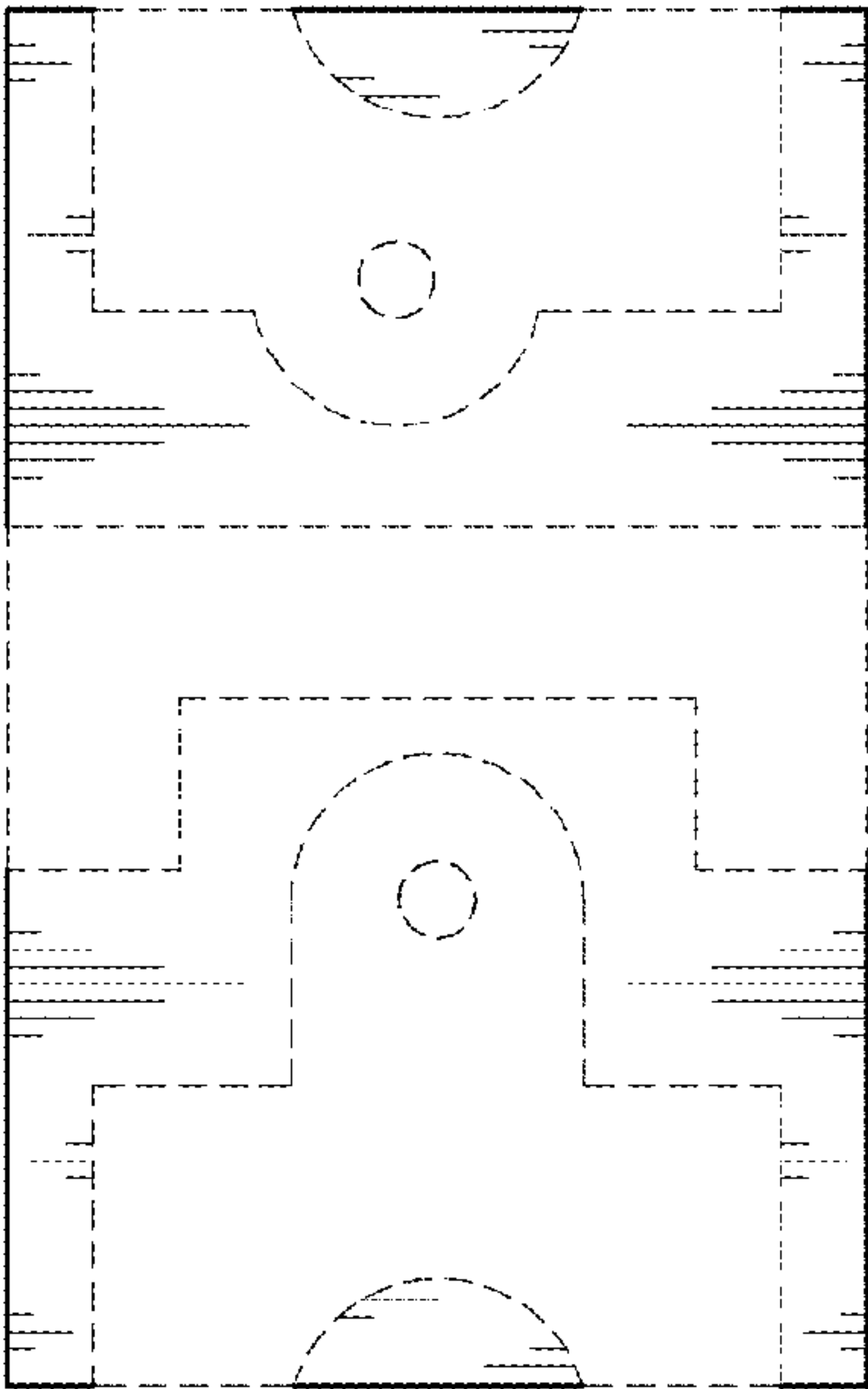


FIG.15

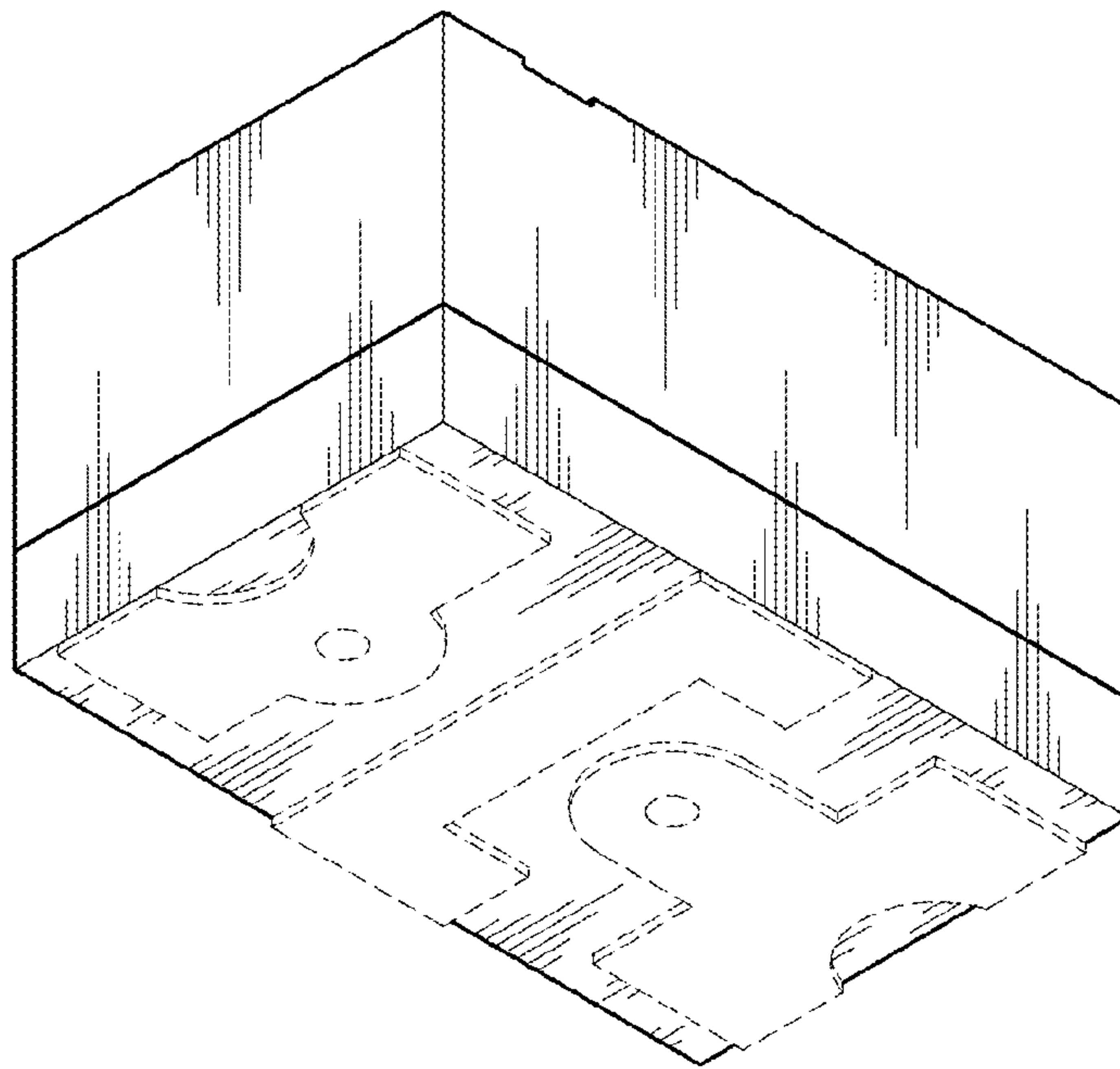


FIG.16