



US00D884511S

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

(10) **Patent No.:** **US D884,511 S**  
(45) **Date of Patent:** **\*\* May 19, 2020**

(54) **INFRARED DETECTOR**

**DESCRIPTION**

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

(21) Appl. No.: **29/672,839**

(22) Filed: **Dec. 10, 2018**

(30) **Foreign Application Priority Data**

Jun. 13, 2018 (JP) ..... 2018-012996

(51) **LOC (12) Cl.** ..... **10-04**

(52) **U.S. Cl.**  
USPC ..... **D10/70**

(58) **Field of Classification Search**  
USPC ..... D10/46, 70, 102

(Continued)

(56) **References Cited**

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(Continued)

*Primary Examiner* — Antoine Duval Davis

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Reath LLP

(57) **CLAIM**

The ornamental design for an infrared detector, as shown  
and described.

FIG. 1 is a perspective view of a first embodiment of an  
infrared detector showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a bottom view thereof;

FIG. 6 is a right side view thereof;

FIG. 7 is a left side view thereof;

FIG. 8 is an enlarged sectional view taken along the line 8-8  
in FIG. 4 defined by the lines 801-801;

FIG. 9 is an enlarged sectional view taken along the line 9-9  
in FIG. 4 defined by the lines 901-901, 902-902 and 903-  
903;

FIG. 10 is an enlarged sectional view taken along the line  
10-10 in FIG. 4 defined by the lines 1001-1001;

FIG. 11 is an enlarged sectional view taken along the line  
11-11 in FIG. 4 defined by the lines 1101-1101;

FIG. 12 is a perspective view of a second embodiment of an  
Infrared Detector showing our new design;

FIG. 13 is a front view thereof;

FIG. 14 is a rear view thereof;

FIG. 15 is a top plan view thereof;

FIG. 16 is a bottom view thereof;

FIG. 17 is a right side view thereof;

FIG. 18 is a left side view thereof;

FIG. 19 is an enlarged sectional view taken along the line  
19-19 in FIG. 15 defined by the lines 1901-1901;

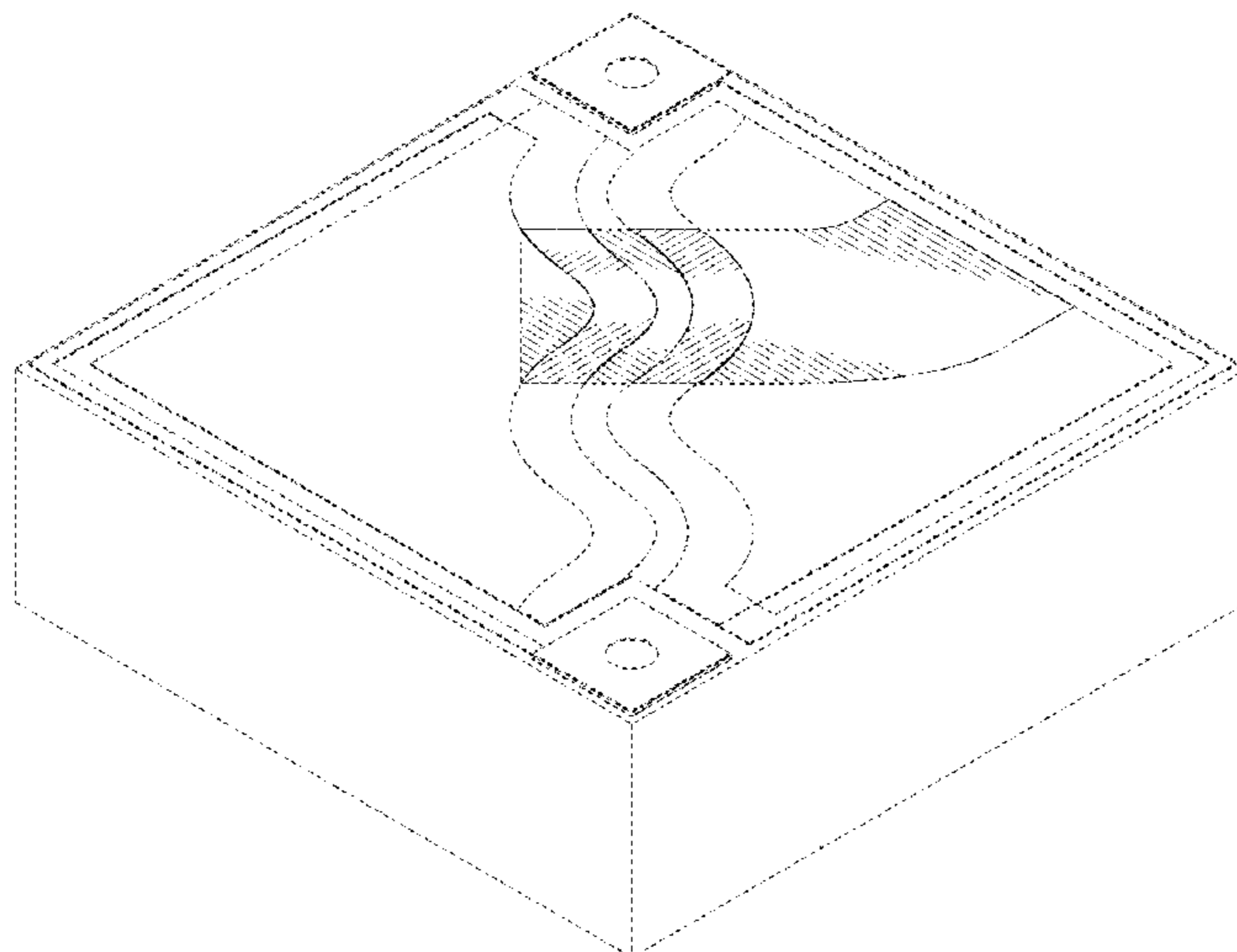
FIG. 20 is an enlarged sectional view taken along the line  
20-20 in FIG. 15 defined by the lines 2001-2001, 2002-2002  
and 2003-2003;

FIG. 21 is an enlarged sectional view taken along the line  
21-21 in FIG. 15 defined by the lines 2101-2101; and,

FIG. 22 is an enlarged sectional view taken along the line  
22-22 in FIG. 15 defined by the lines 2201-2201.

The features shown in broken lines depict environmental  
subject matter only and form no part of the claimed design.  
The alternate long and short dash lines are merely the  
boundary lines between the claimed parts and the non-  
claimed parts.

**1 Claim, 22 Drawing Sheets**



(58) **Field of Classification Search**

CPC .. G02B 26/001; G01T 1/20; G01J 5/10; G01J 5/12; G01J 5/15; G01J 5/0853; G01J 5/0846; G01J 1/42; G01J 3/36; G01J 2005/0077; G01N 21/53; G01N 21/65; G01N 21/658; H01L 27/14; H01L 27/1146; H01L 27/142; H01L 31/02325; H01L 31/102; H01L 31/02327; H01L 31/1013; H01L 31/00; H01L 31/04; H01L 31/09; H04N 5/32; H04N 5/23241; H04N 5/33; H01J 27/14683; H01J 27/14649; B27C 5/10; B27C 5/02; Y10T 409/306608; G01V 8/20; G08B 13/1645; G08B 13/16; G08B 13/1609; G08B 13/1627; G08B 13/1618; G08B 13/1636; G08B 13/1654; G08B 13/1663; G08B 13/1672; G08B 13/1681; G08B 13/16169; G08B 13/181; G08B 13/183; G08B 13/184; G08B 13/186; G08B 13/187;

G08B 13/189; G08B 13/1895; G08B 13/19; G08B 13/191; G08B 13/193; G08B 17/12; H03K 17/941; H03K 2017/9455; H03K 17/9505; H03K 17/9622; H03K 17/9627; H05B 37/0227

See application file for complete search history.

(56)

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D10/70  
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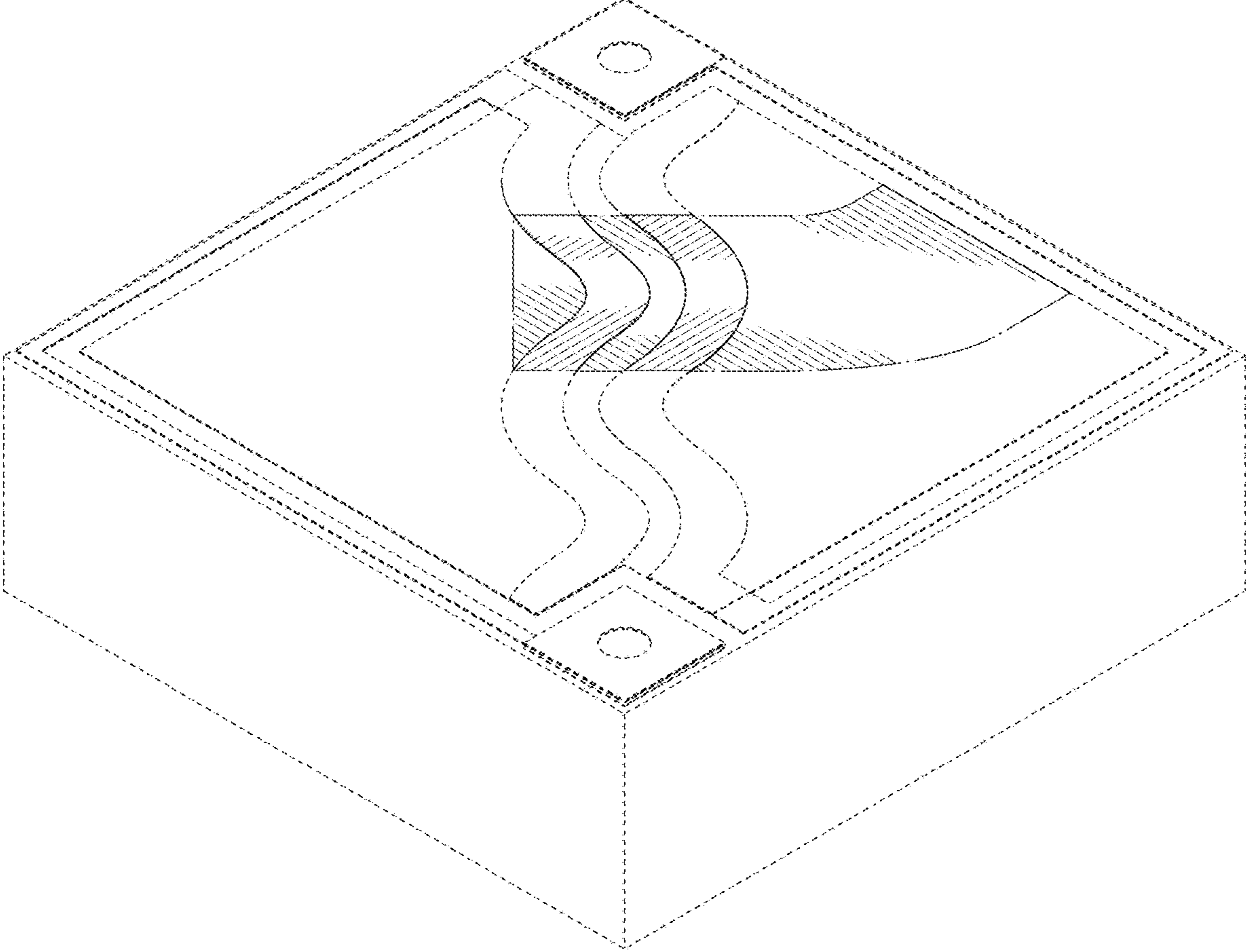


FIG. 1



FIG. 2

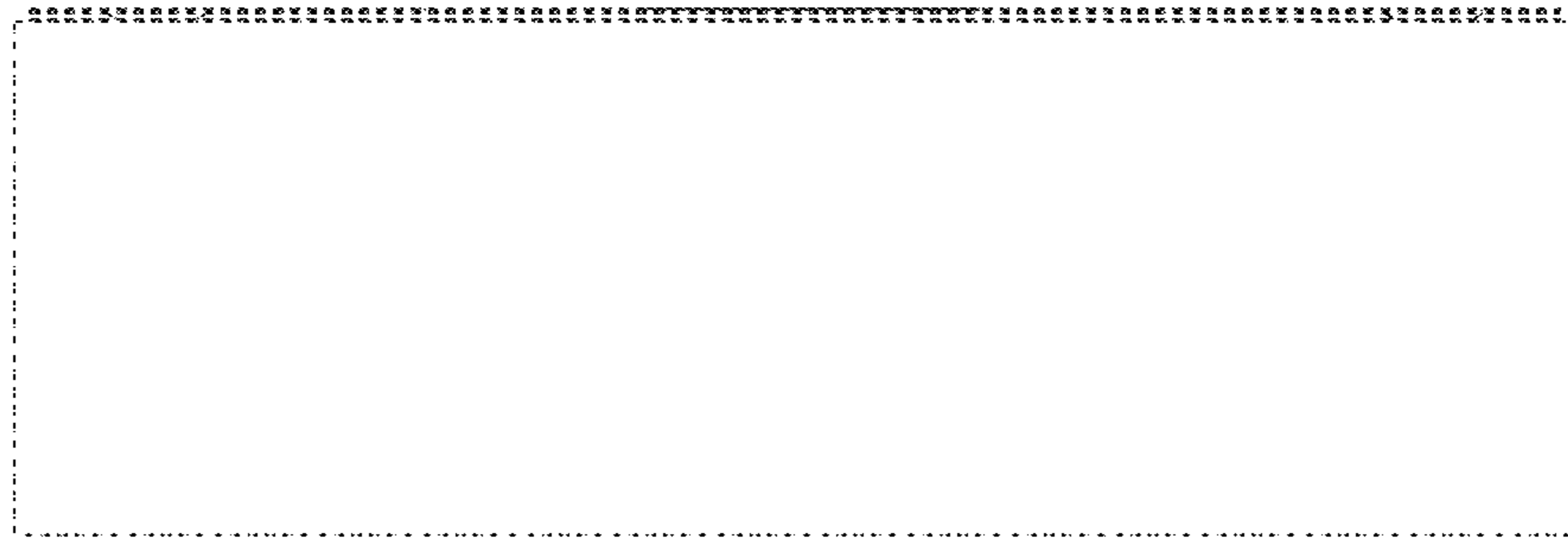


FIG. 3



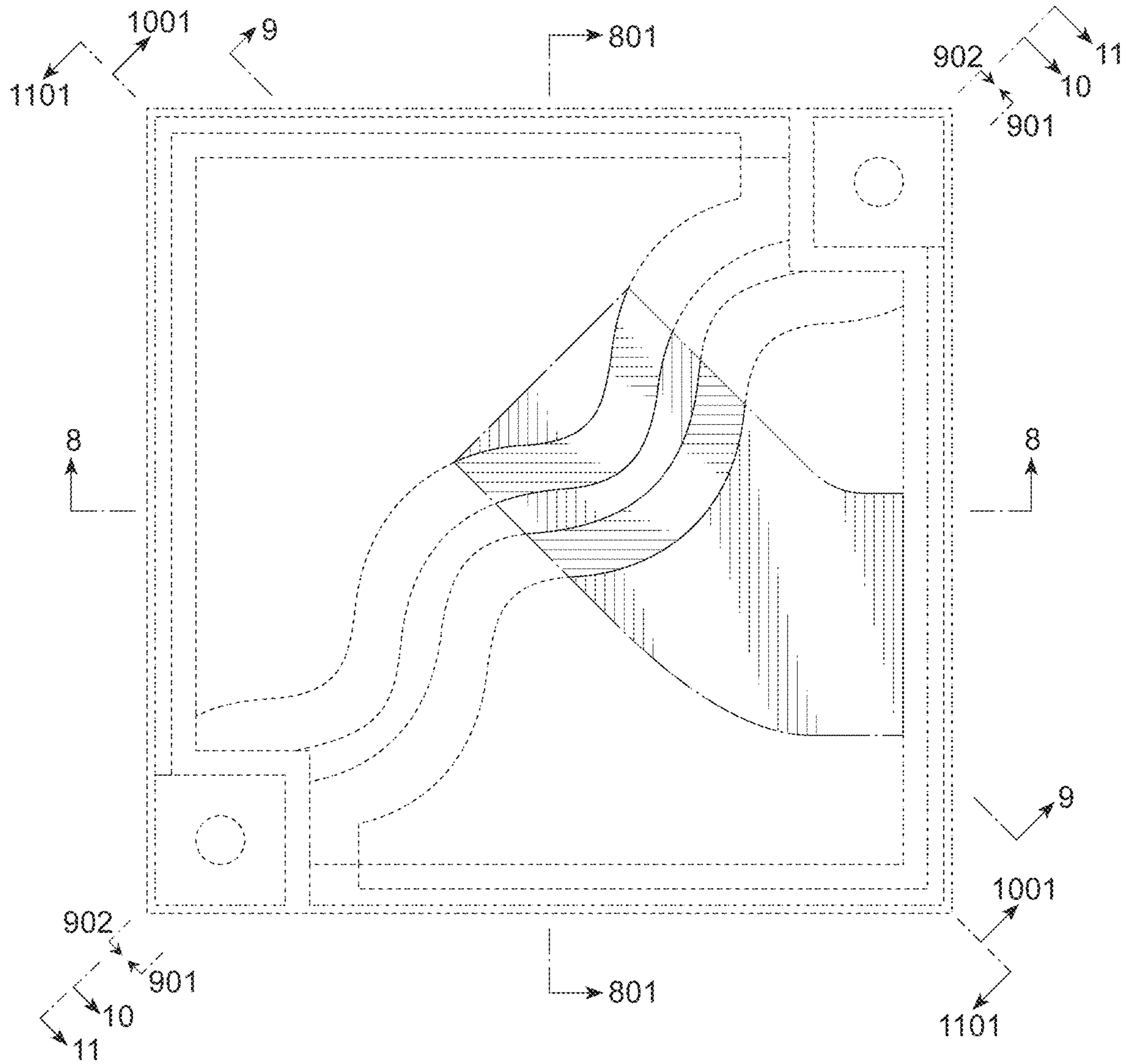


FIG. 4

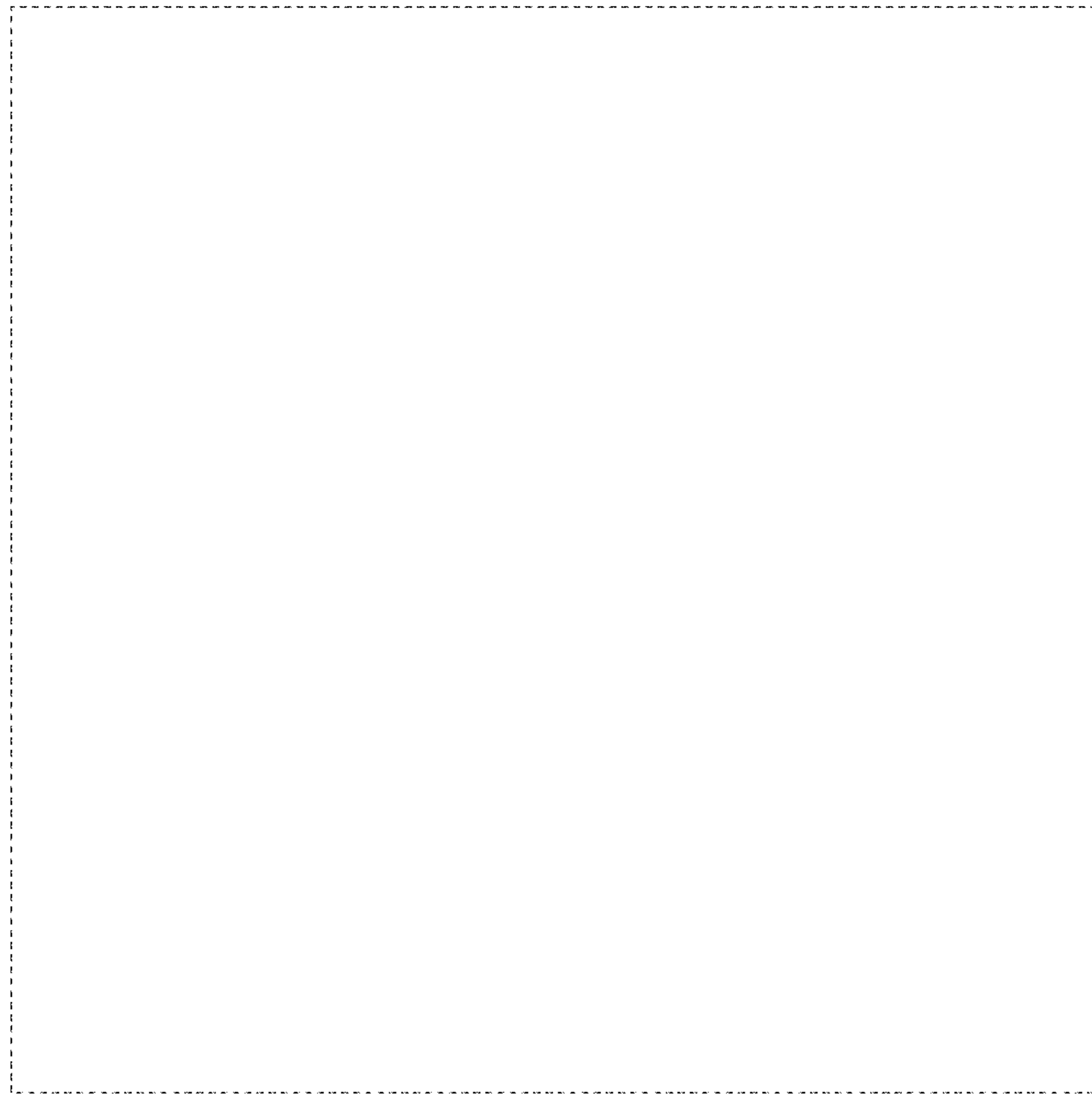


FIG. 5

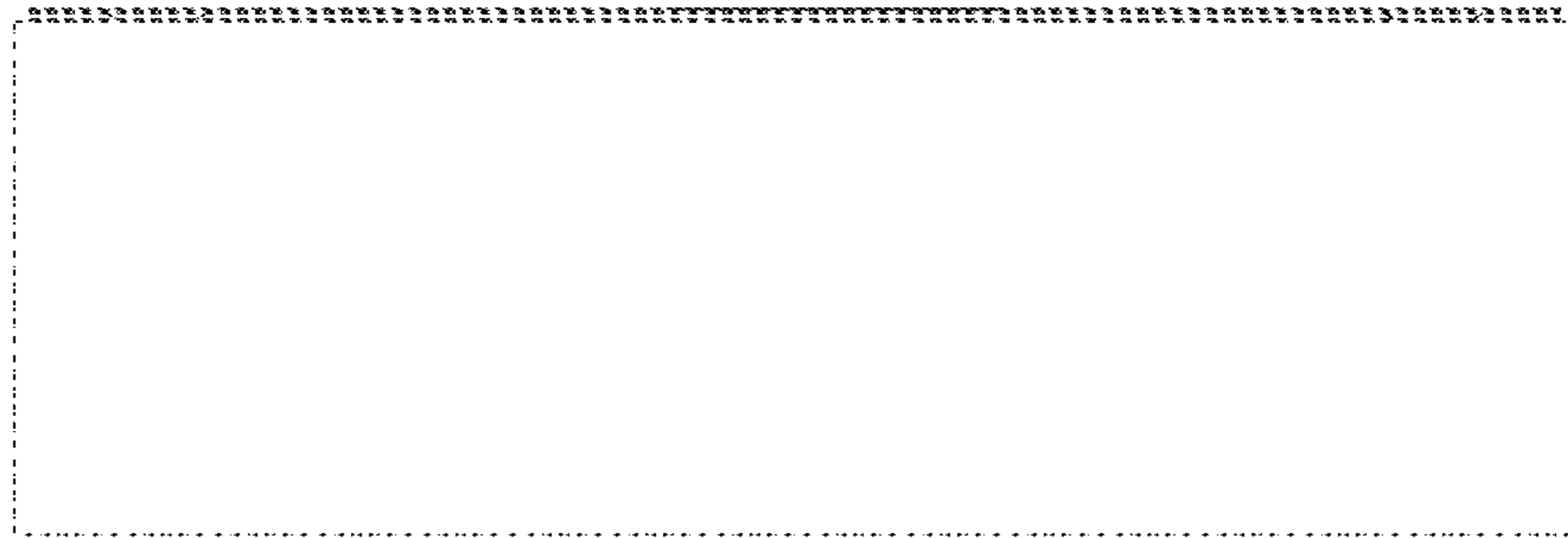


FIG. 6





FIG. 7

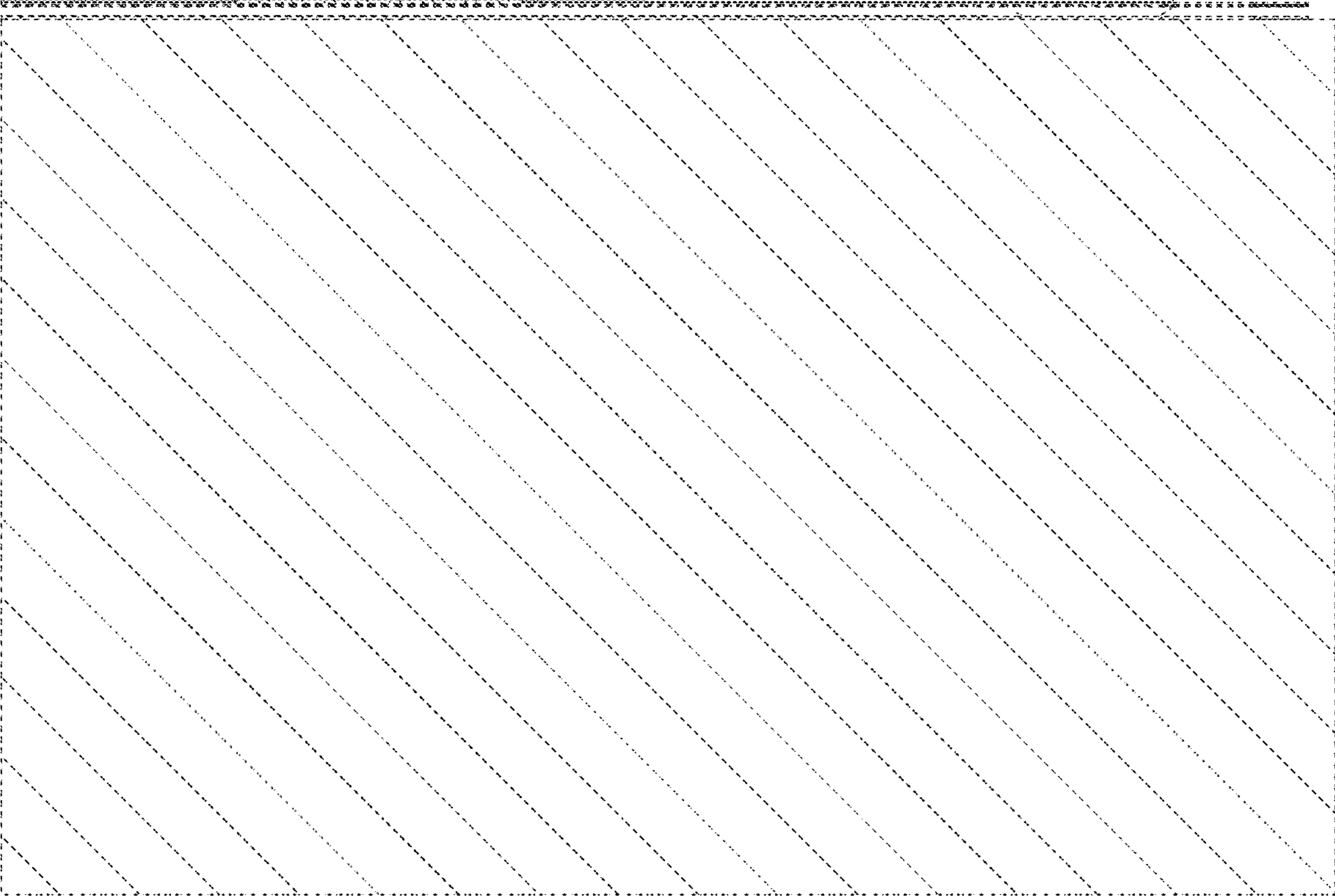


FIG. 8

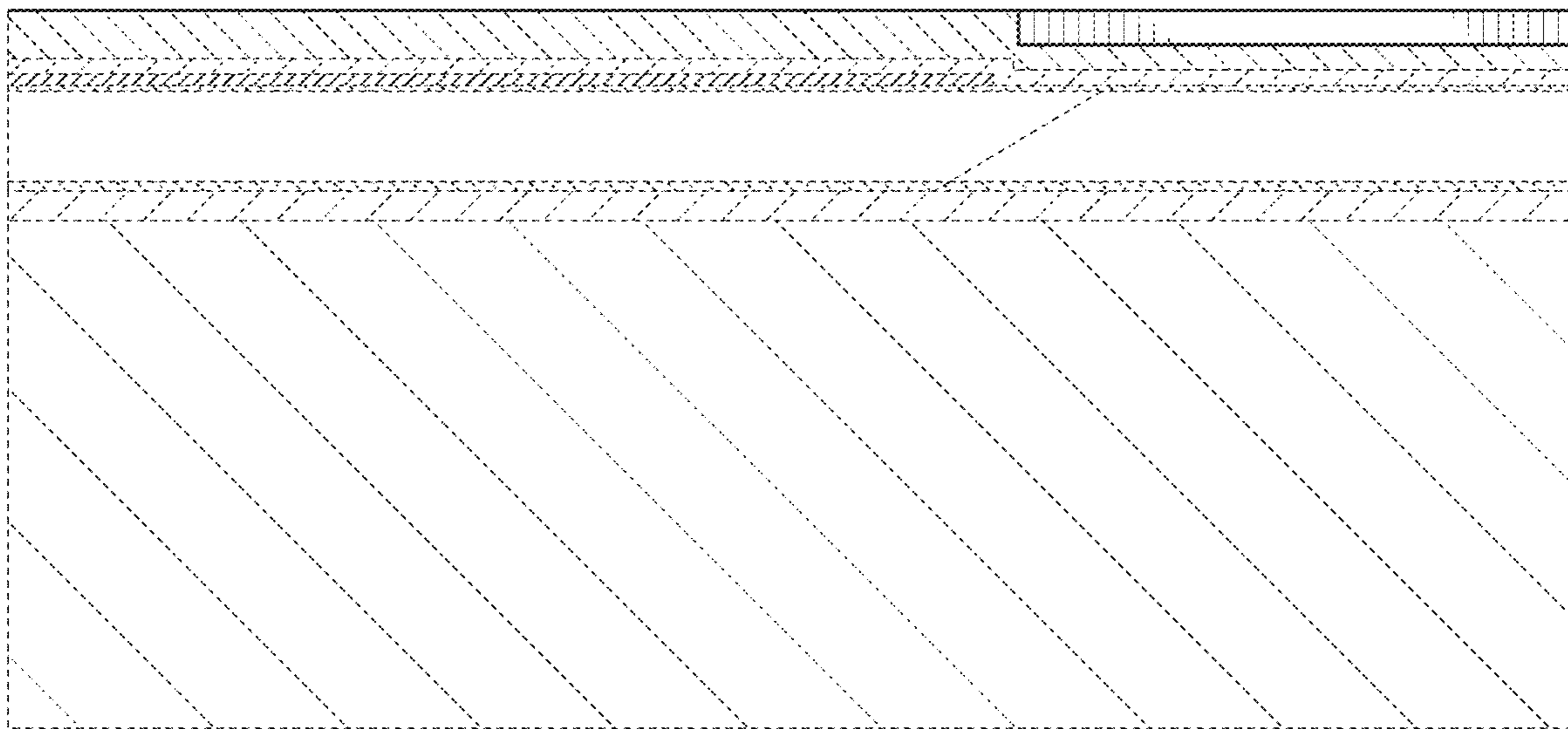


FIG. 9

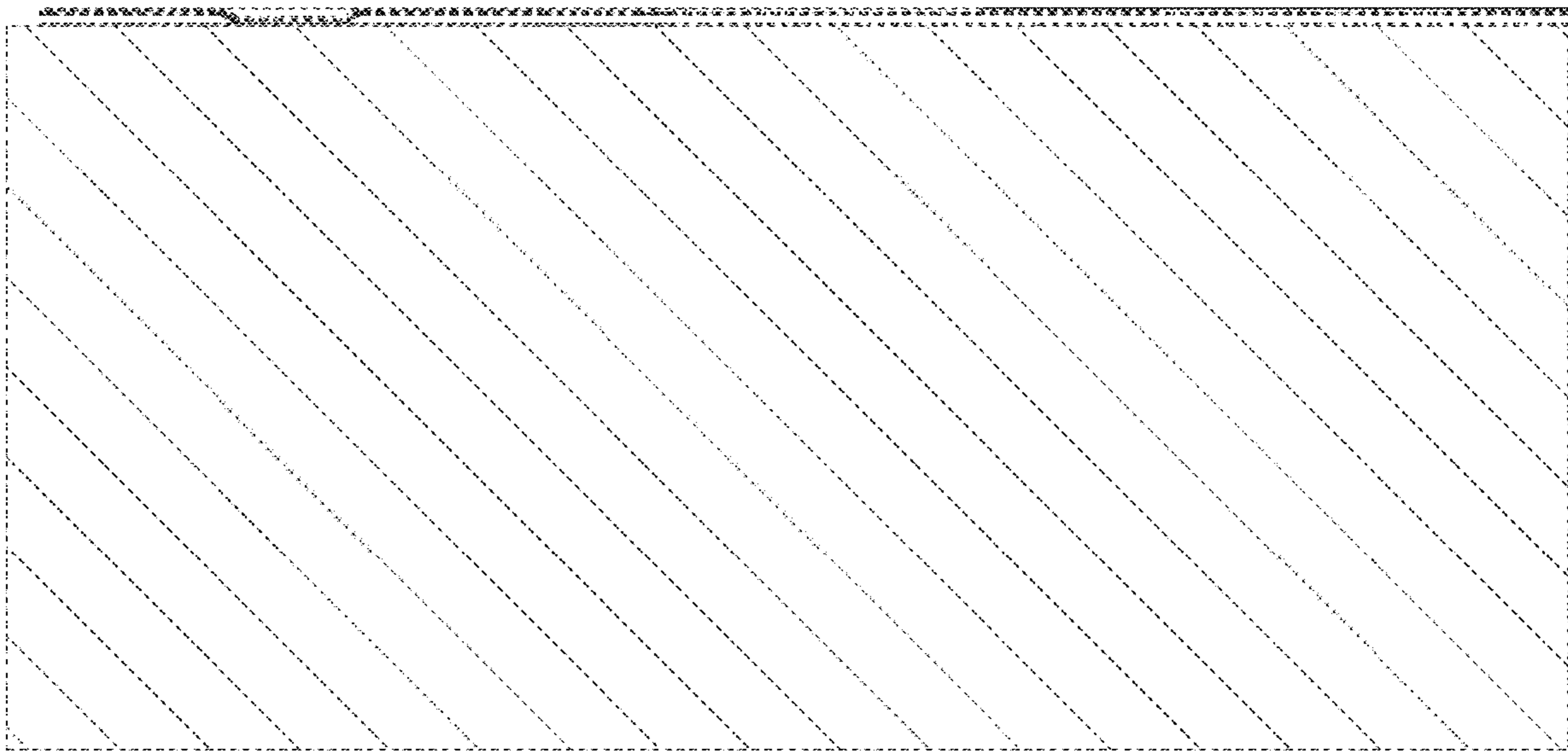


FIG. 10

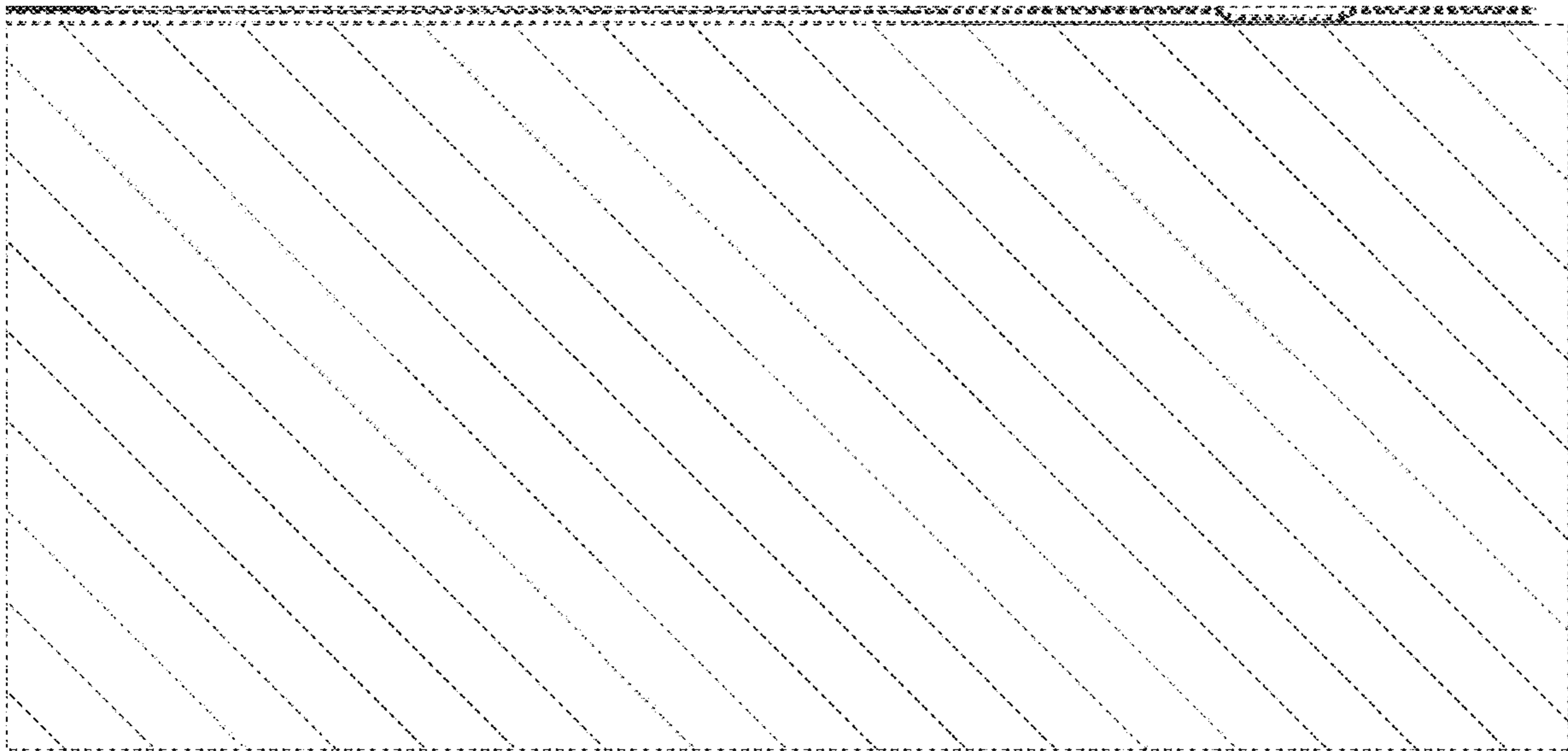


FIG. 11

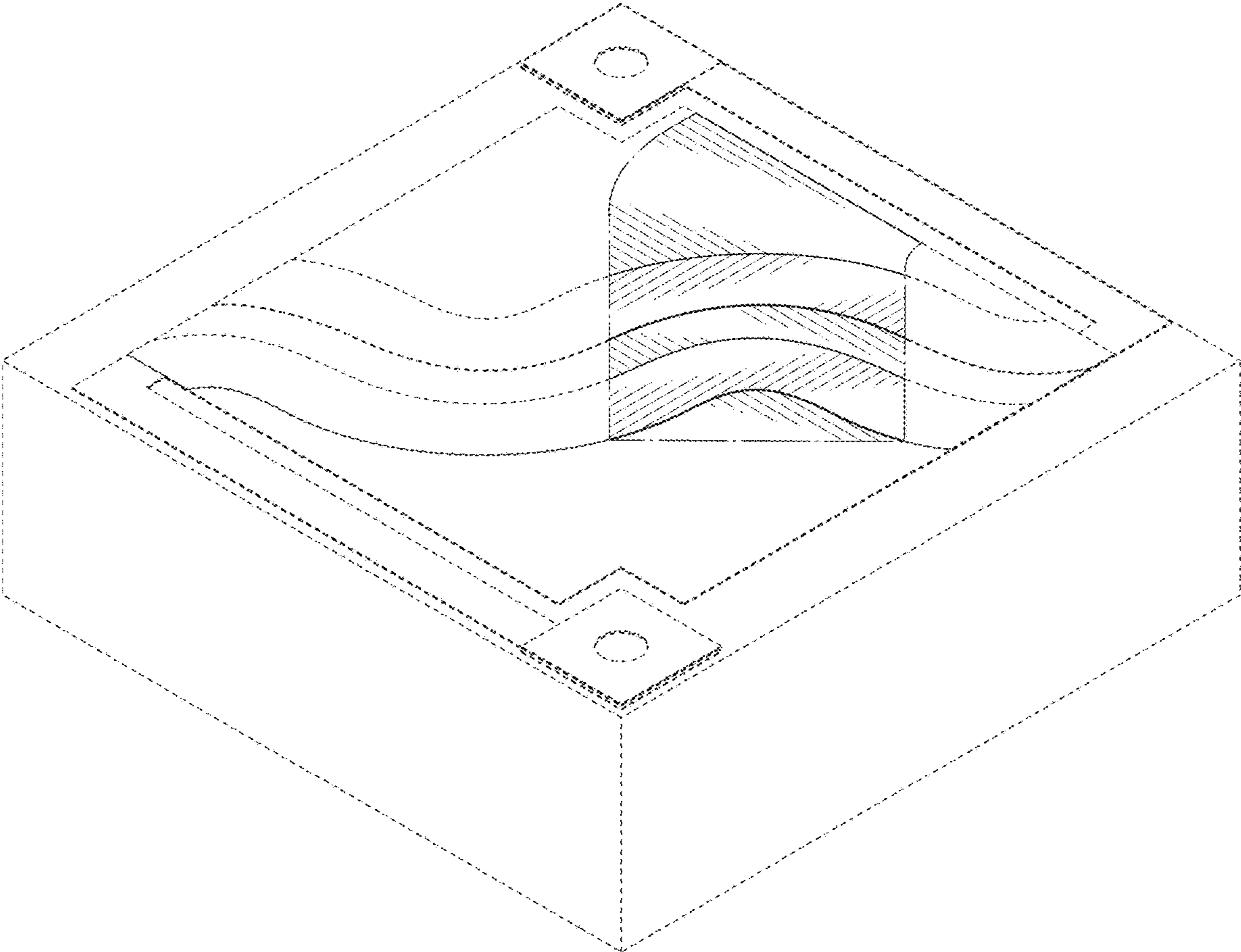


FIG. 12

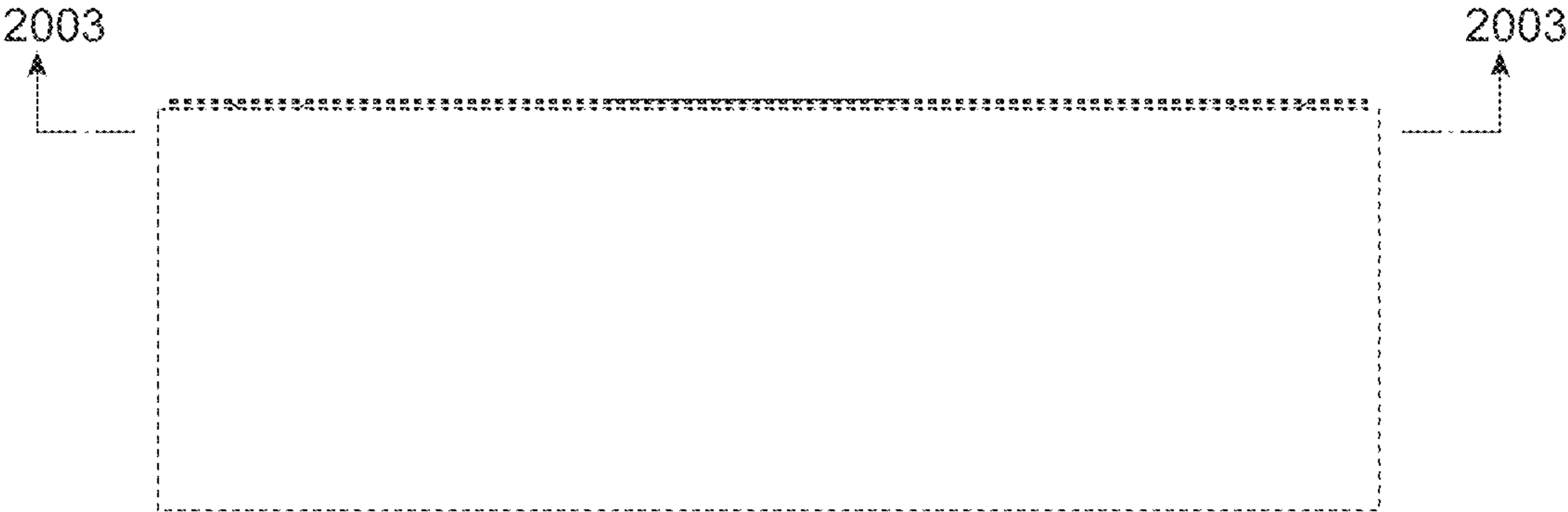


FIG. 13



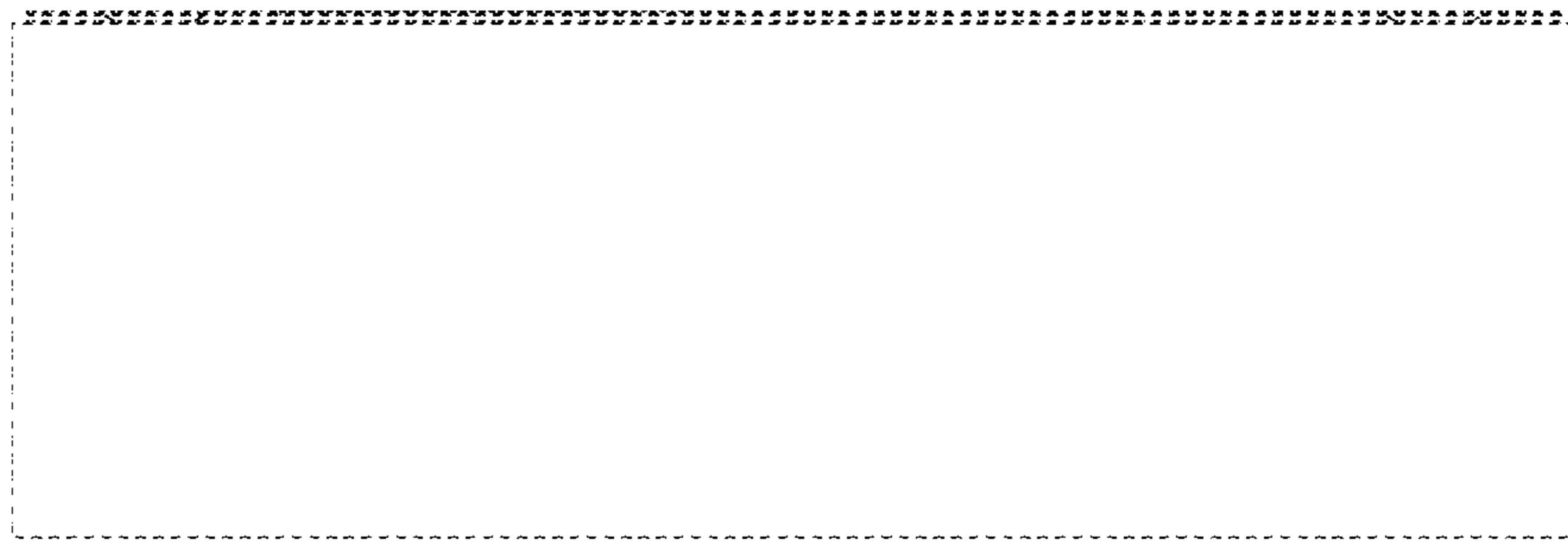


FIG. 14

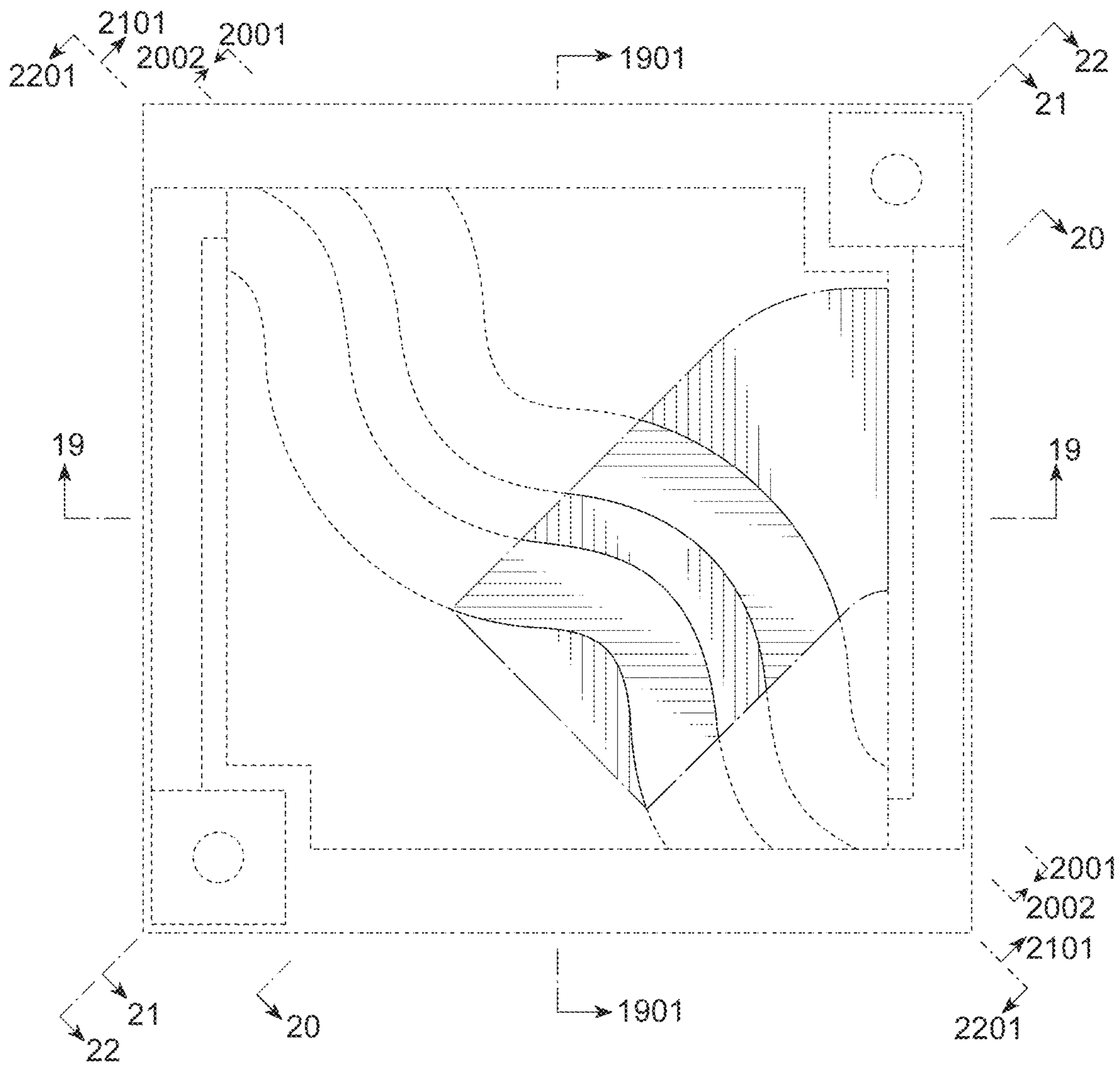
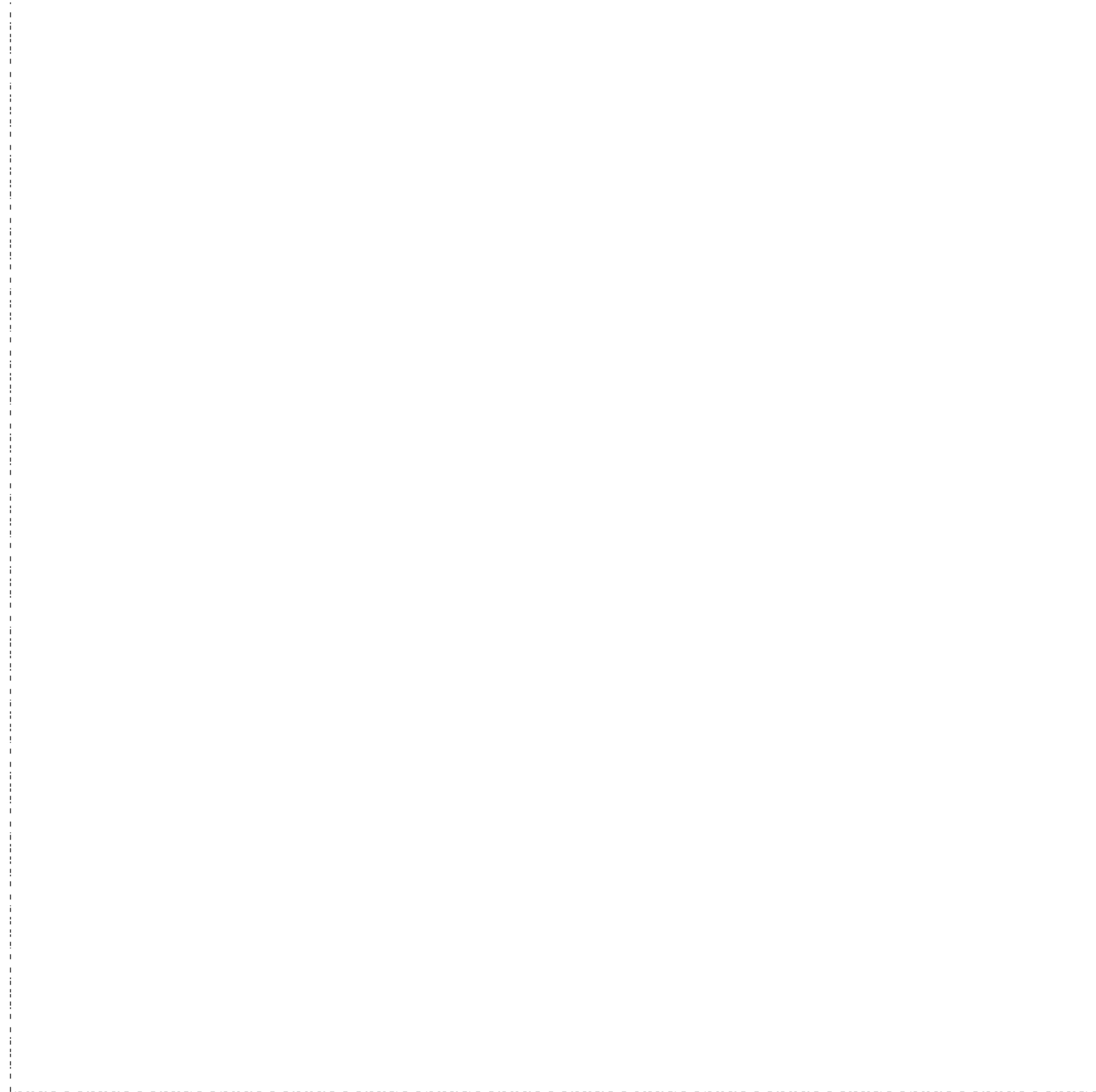


FIG. 15



**FIG. 16**

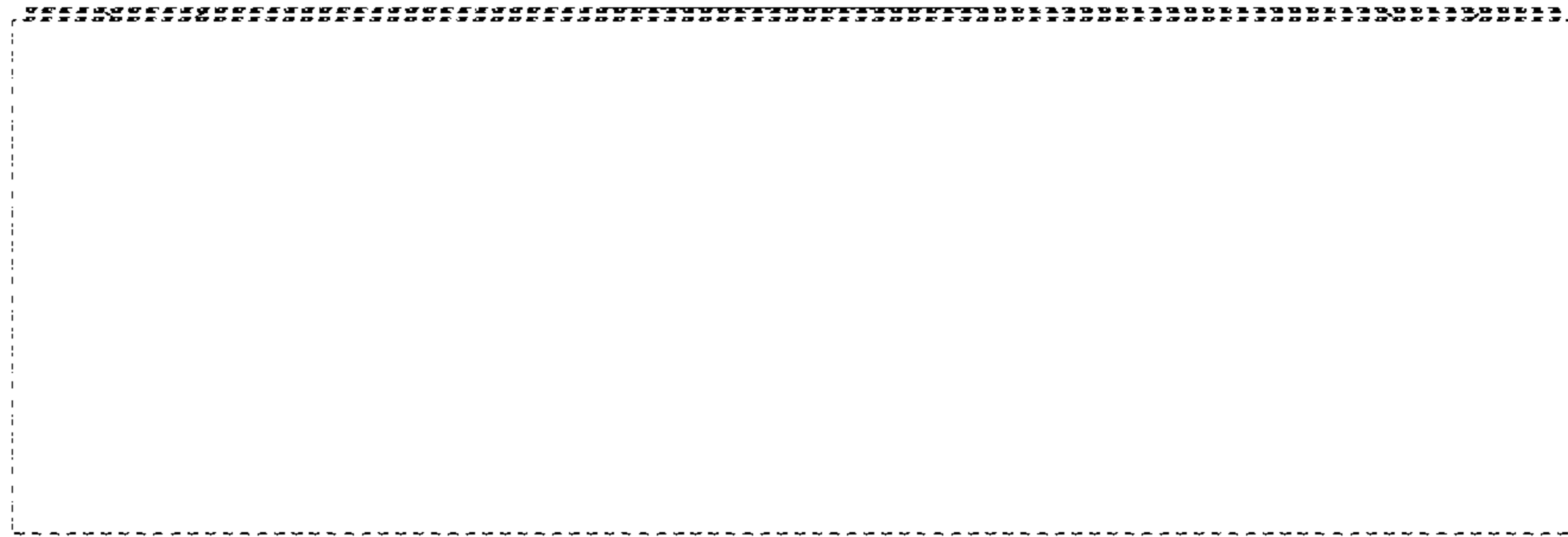


FIG. 17

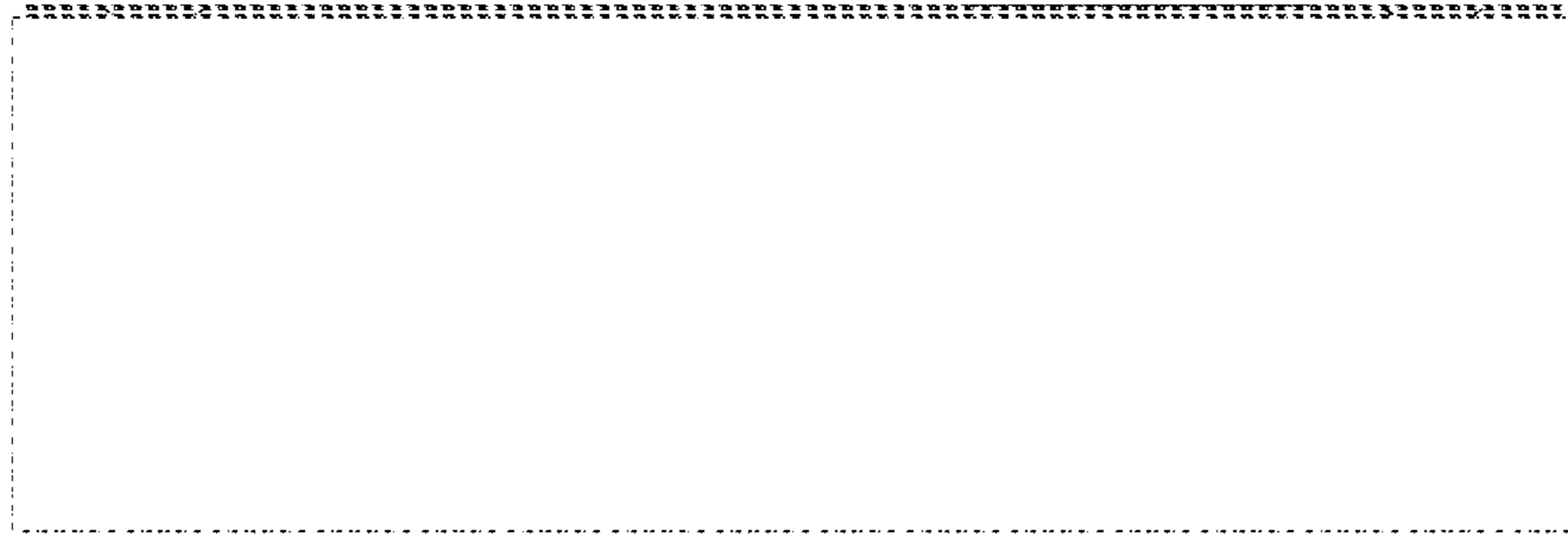


FIG. 18

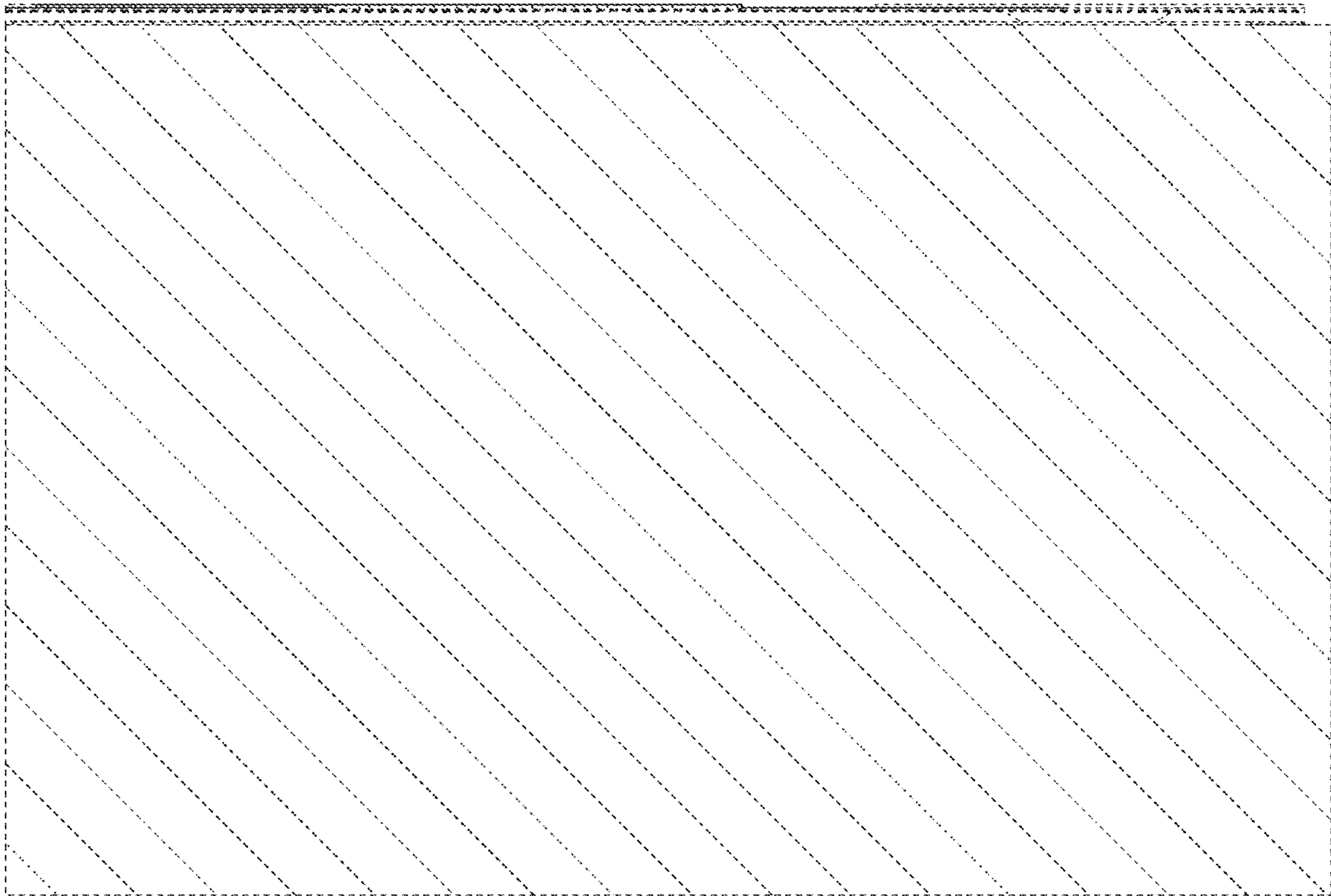


FIG. 19

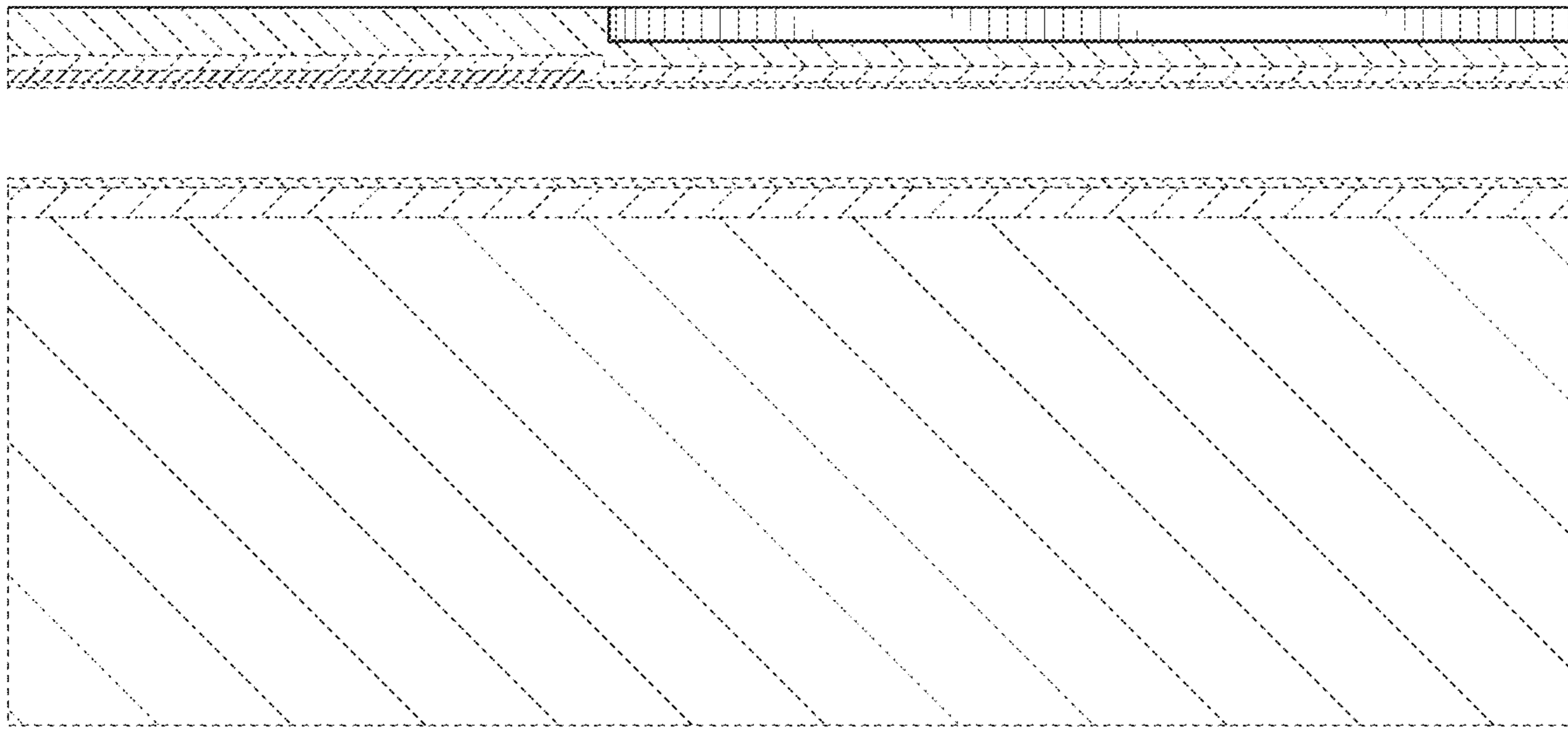


FIG. 20



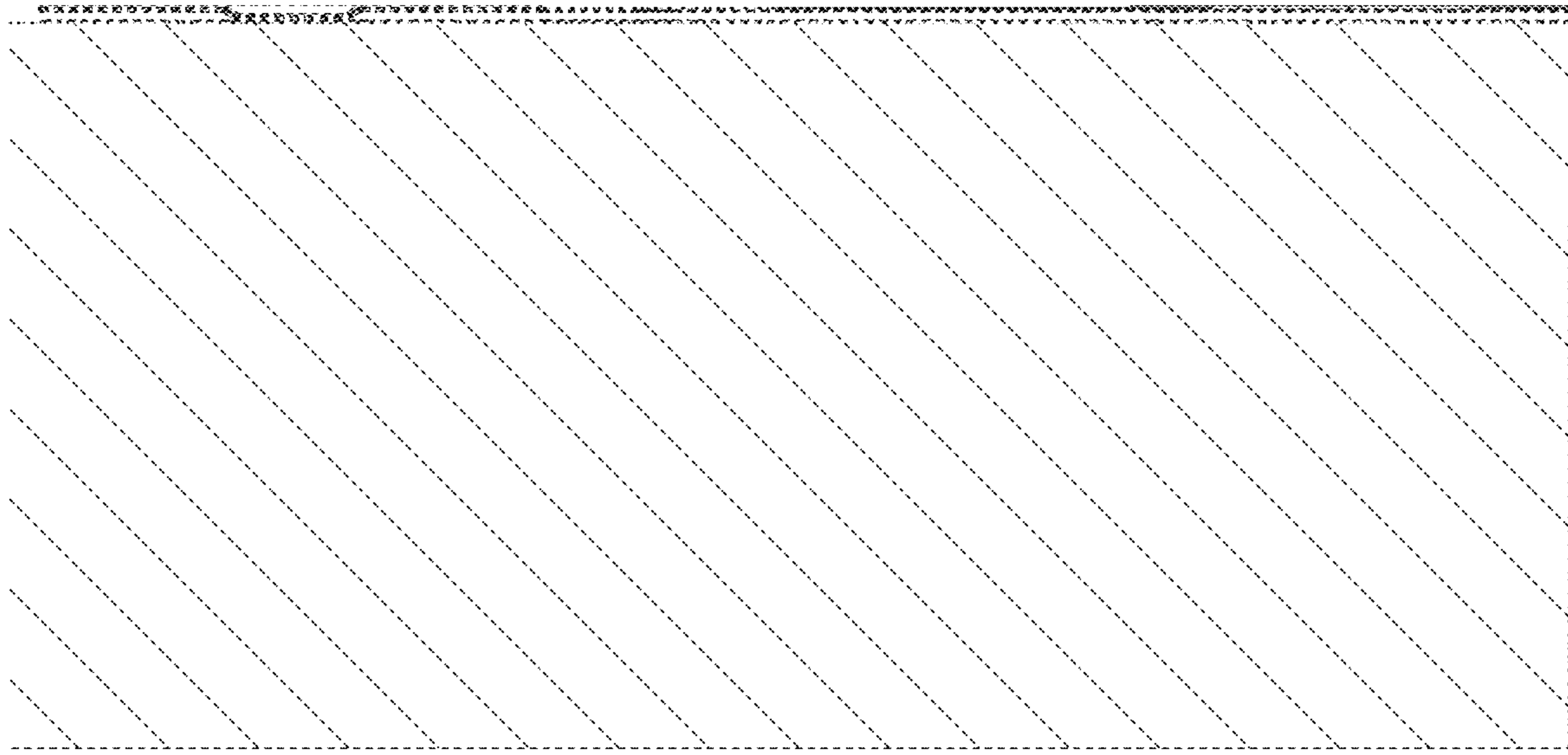


FIG. 21

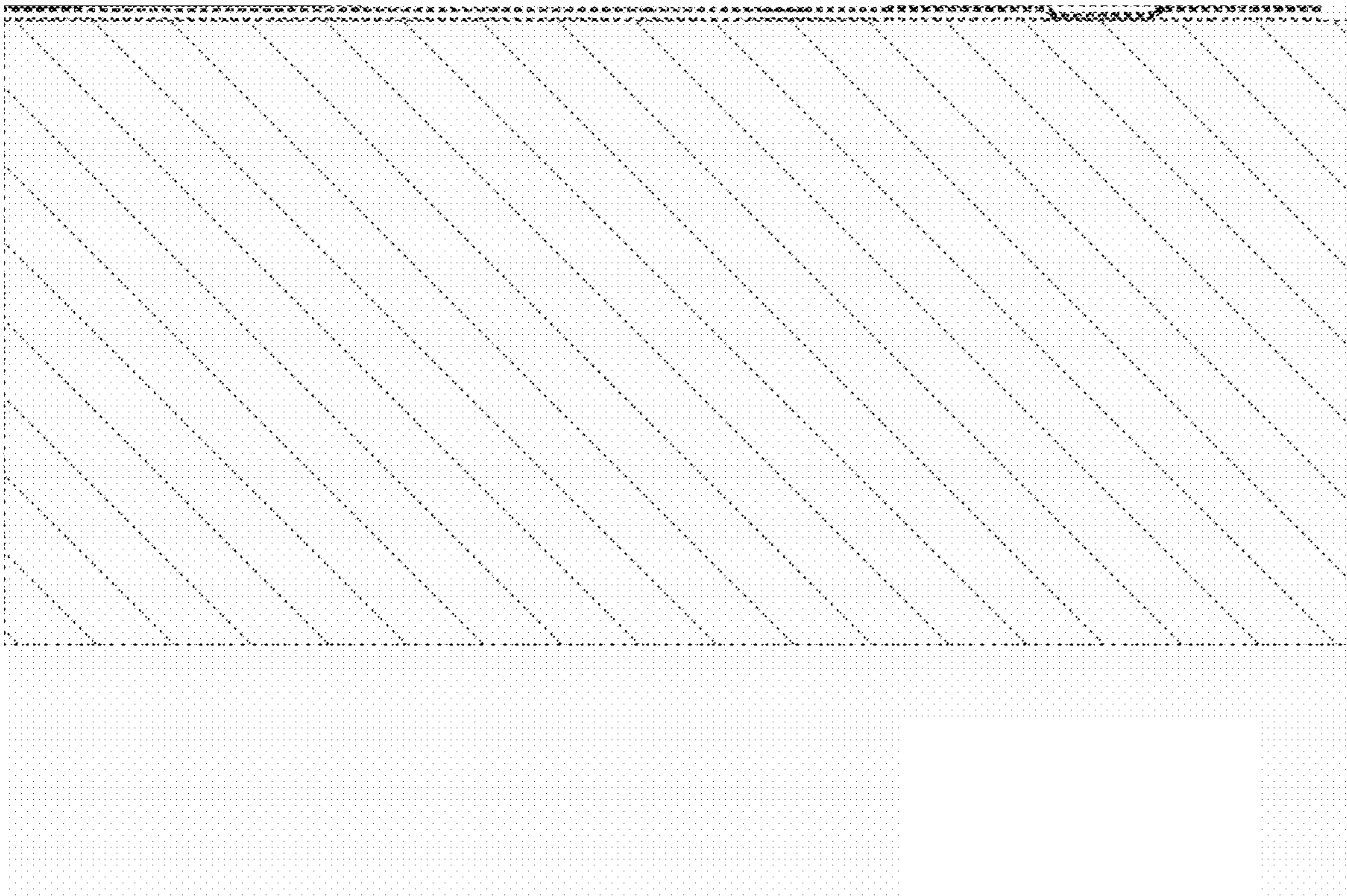


FIG. 22