



US00D787700S

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

(10) **Patent No.:** **US D787,700 S**

(45) **Date of Patent:** **\*\* May 23, 2017**

(54) **FLUORESCENT NUCLEIC ACID PROBE  
DETECTION CARTRIDGE ASSEMBLY UNIT**

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

(21) Appl. No.: **29/539,294**

(22) Filed: **Sep. 11, 2015**

(51) **LOC (10) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/225**

(58) **Field of Classification Search**  
USPC ..... D24/225, 222-224, 226, 216;  
422/400-404, 67, 68.1; 435/4, 30, 29;  
356/432, 433  
CPC ..... G01N 33/50; G01N 33/49  
See application file for complete search history.

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(57) **CLAIM**

The ornamental design for a fluorescent nucleic acid probe  
detection cartridge assembly unit, as shown and described.

**DESCRIPTION**

FIG. 1 is a top view of a fluorescent nucleic acid probe  
detection cartridge assembly unit showing the cover sepa-  
rated from the assembly for clarity of disclosure

FIG. 2 is a top perspective view of a fluorescent nucleic acid  
probe detection cartridge assembly unit showing the cover  
separated from the assembly for clarity of disclosure

FIG. 3 is a side view of a fluorescent nucleic acid probe  
detection cartridge assembly unit showing the cover sepa-  
rated from the assembly for clarity of disclosure

FIG. 4 is a side view of the fluorescent nucleic acid probe  
detection cartridge assembly unit showing the cover sepa-  
rated from the assembly for clarity of disclosure

FIG. 5 is a bottom view of a fluorescent nucleic acid probe  
detection cartridge assembly unit showing the cover sepa-  
rated from the assembly for clarity of disclosure.

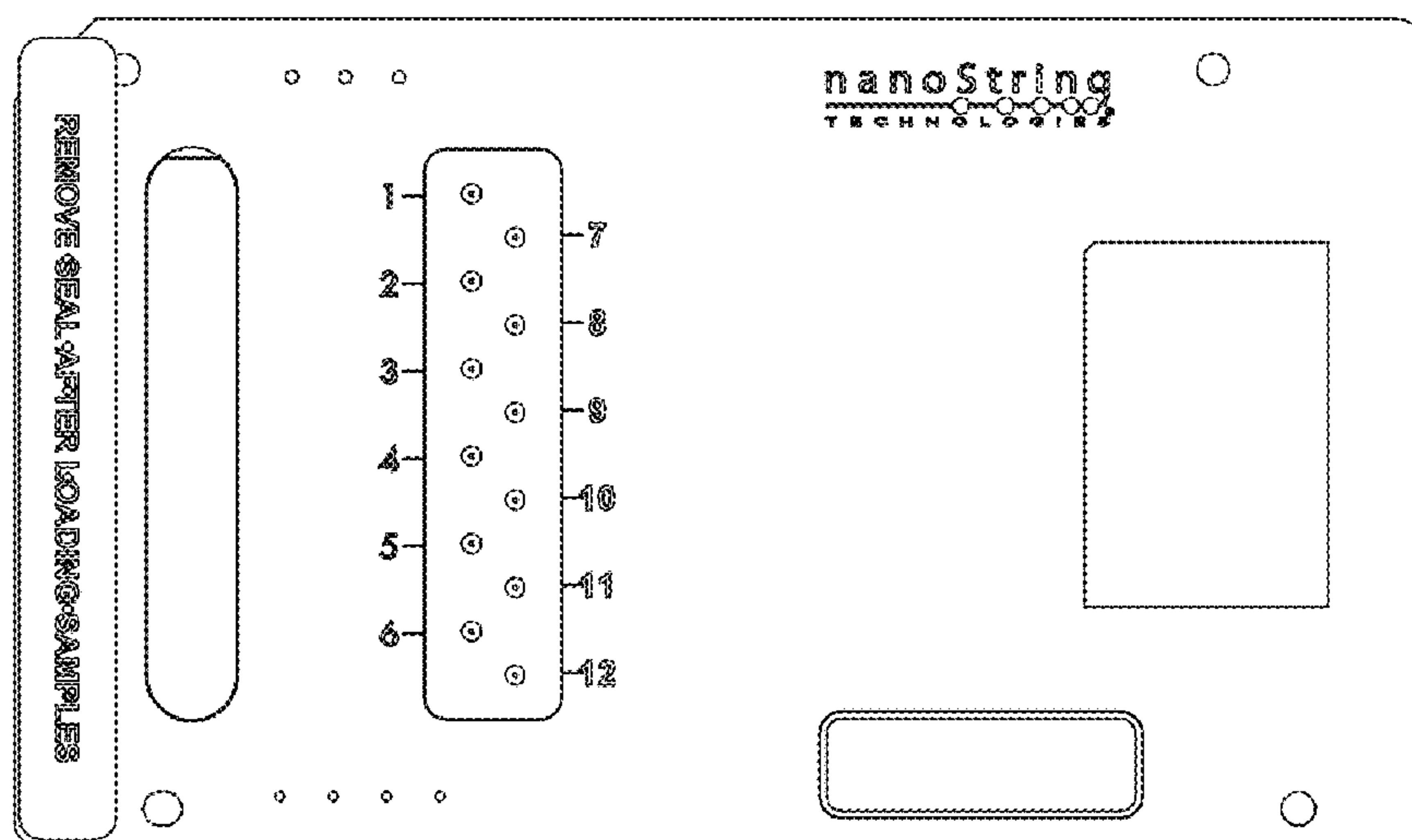
FIG. 6 is a bottom perspective of a fluorescent nucleic acid  
probe detection cartridge assembly unit showing the cover  
separated from the assembly for clarity of disclosure

FIG. 7 is a fluorescent nucleic acid probe detection cartridge  
assembly unit showing the top view of the inner layer  
separated from the assembly for clarity of disclosure

FIG. 8 is a fluorescent nucleic acid probe detection cartridge  
assembly unit showing the bottom view of the inner layer  
separated from the assembly for clarity of disclosure; and,

FIG. 9 is an exploded view of a fluorescent nucleic acid  
probe detection cartridge assembly unit of FIG. 1.

**1 Claim, 4 Drawing Sheets**



(56)

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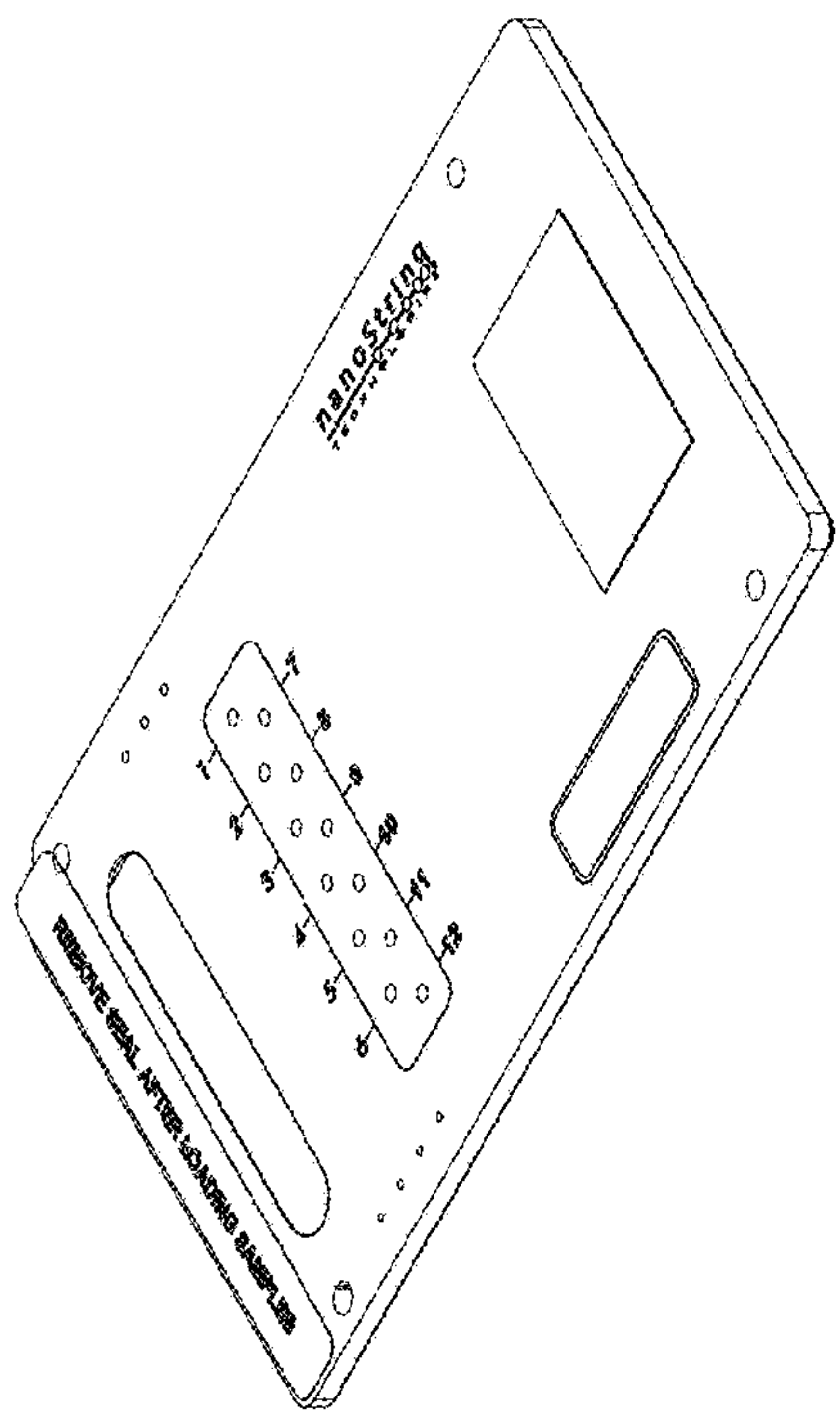


FIGURE 2

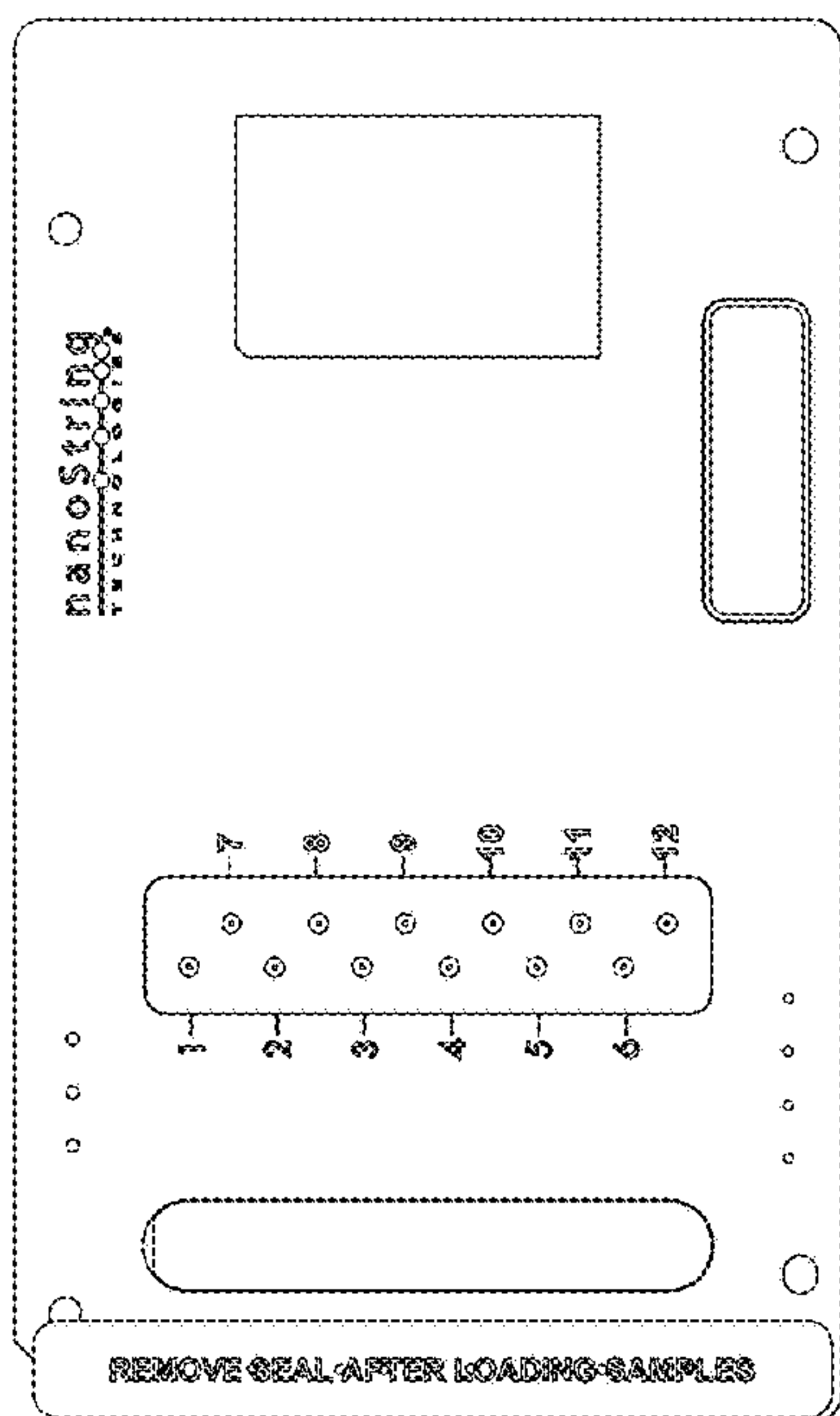


FIGURE 1

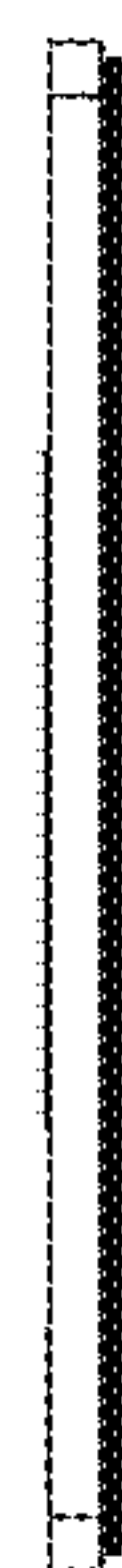


FIGURE 4

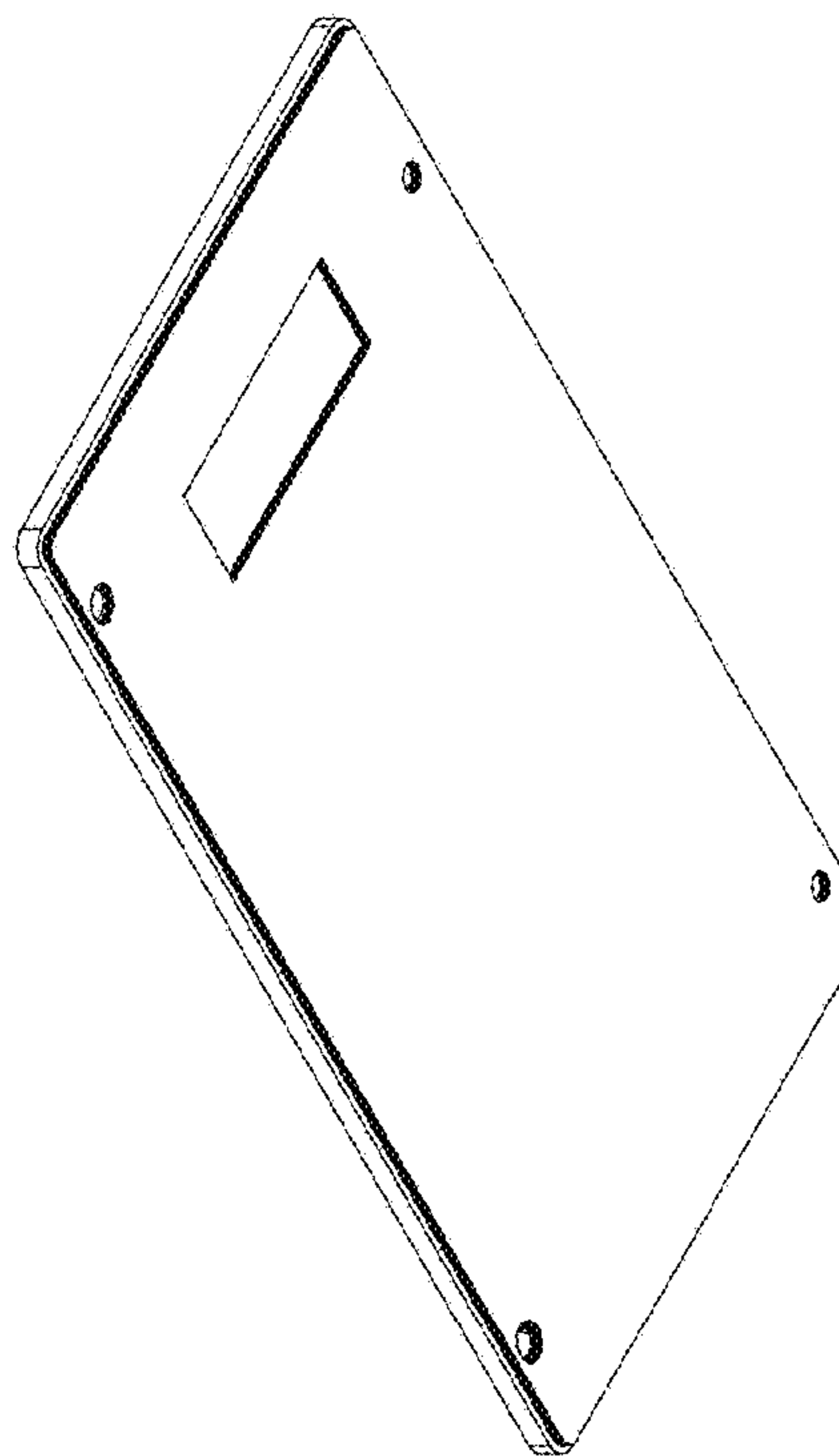


FIGURE 6



FIGURE 3

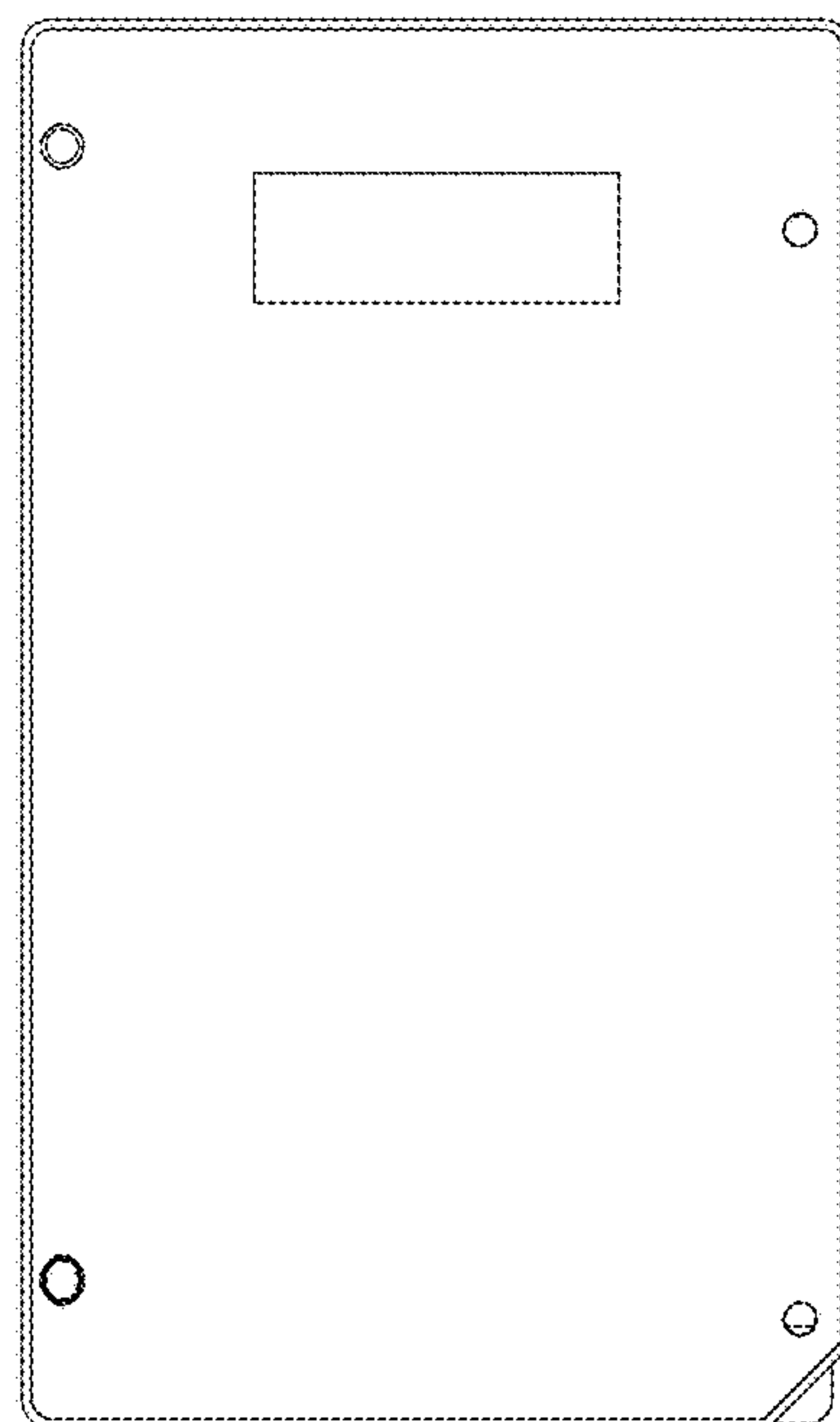


FIGURE 5

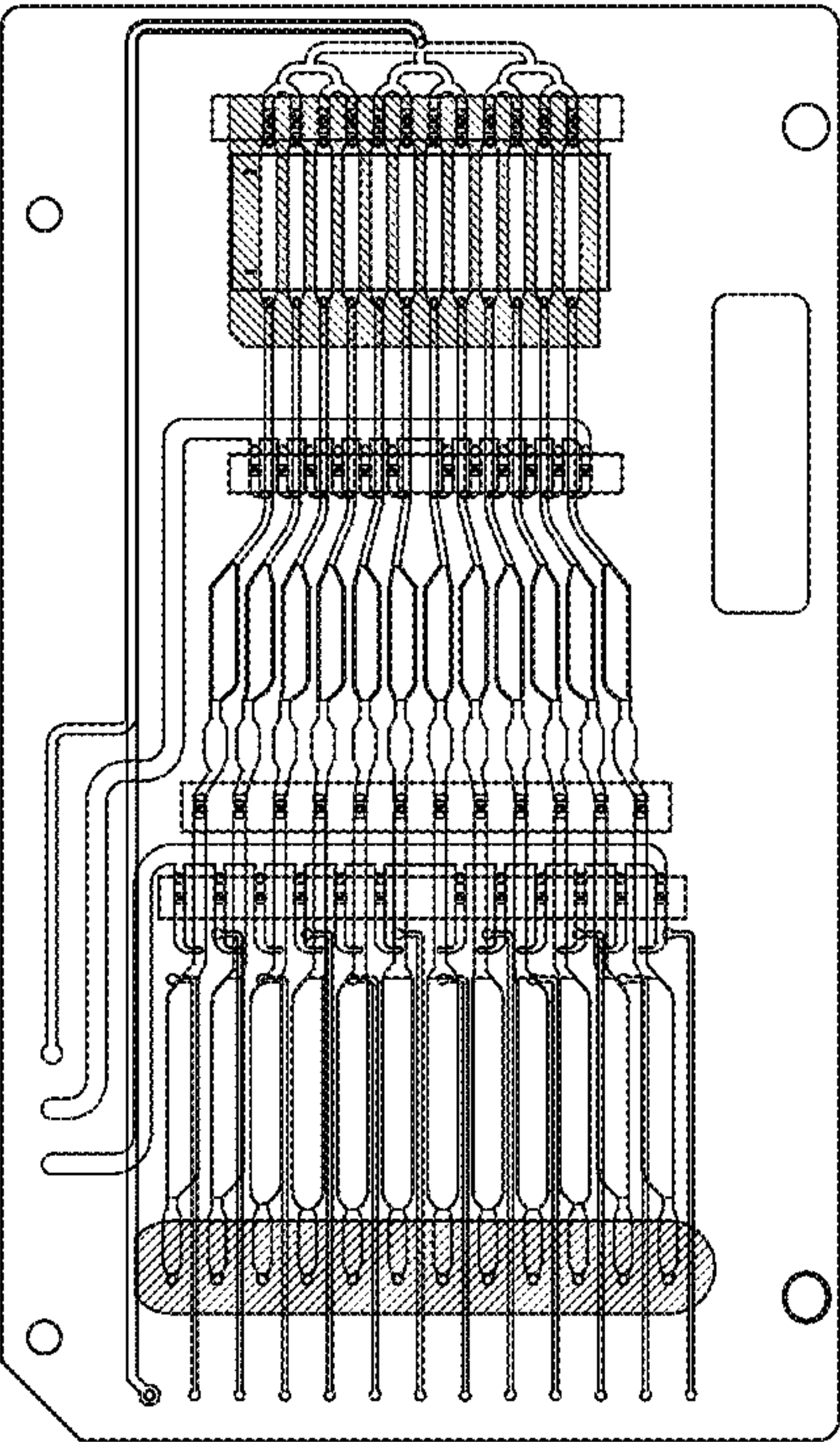


FIGURE 7



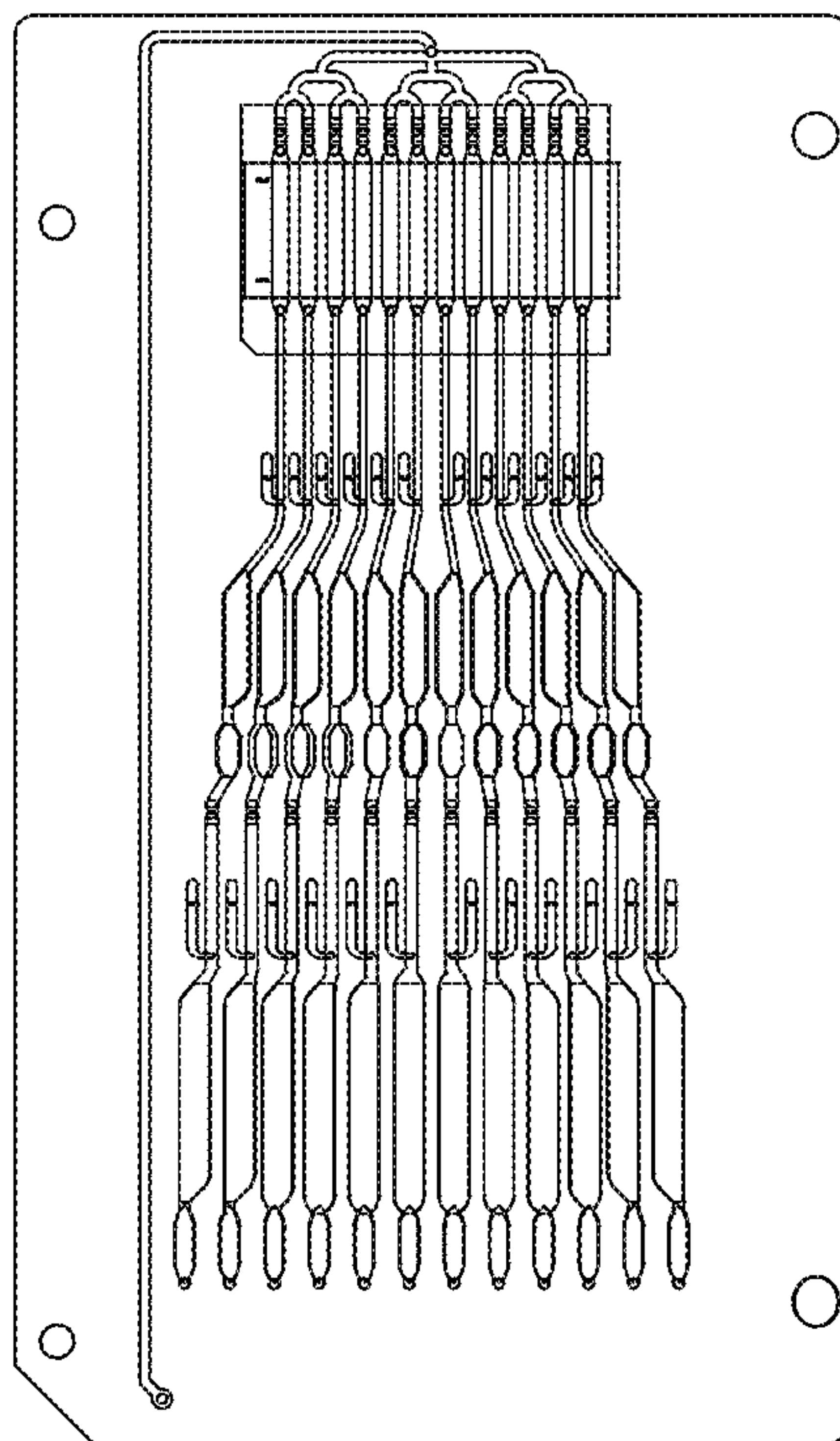


FIGURE 8

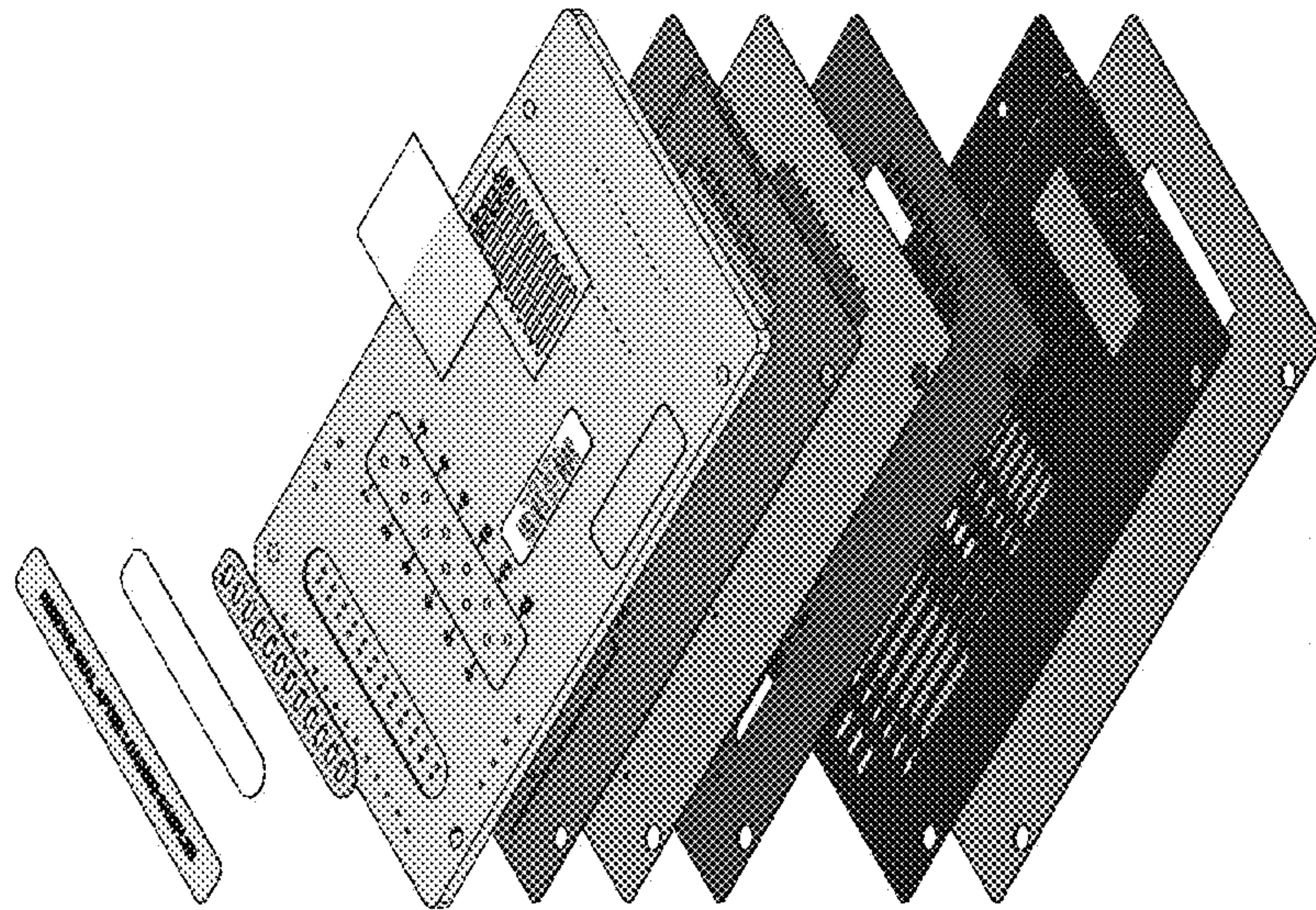


FIGURE 9

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : D787,700 S  
APPLICATION NO. : 29/539294  
DATED : May 23, 2017  
INVENTOR(S) : Dwayne Dunaway et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

The Description of Figure 9 (Description, Line 26) should read:

--FIG. 9 is an exploded view of a fluorescent nucleic acid probe detection cartridge assembly unit of FIGs. 1-8.--

Signed and Sealed this  
Eleventh Day of July, 2017



Joseph Matal  
*Performing the Functions and Duties of the  
Under Secretary of Commerce for Intellectual Property and  
Director of the United States Patent and Trademark Office*