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(12) **United States Design Patent** (10) **Patent No.:** **US D917,587 S**  
**Sauter et al.** (45) **Date of Patent:** **\*\* Apr. 27, 2021**

(54) **LASER IMPINGEMENT COOLER**

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

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(51) **LOC (13) Cl.** ..... **15-09**

(52) **U.S. Cl.**  
USPC ..... **D15/127; D15/138**

(58) **Field of Classification Search**  
USPC ..... D15/122, 127, 138  
CPC ..... H01L 23/4735; H01L 2924/00; H01L 2924/0002; H01S 3/042; H01S 3/0407; Y10S 165/904; Y10S 165/908  
See application file for complete search history.

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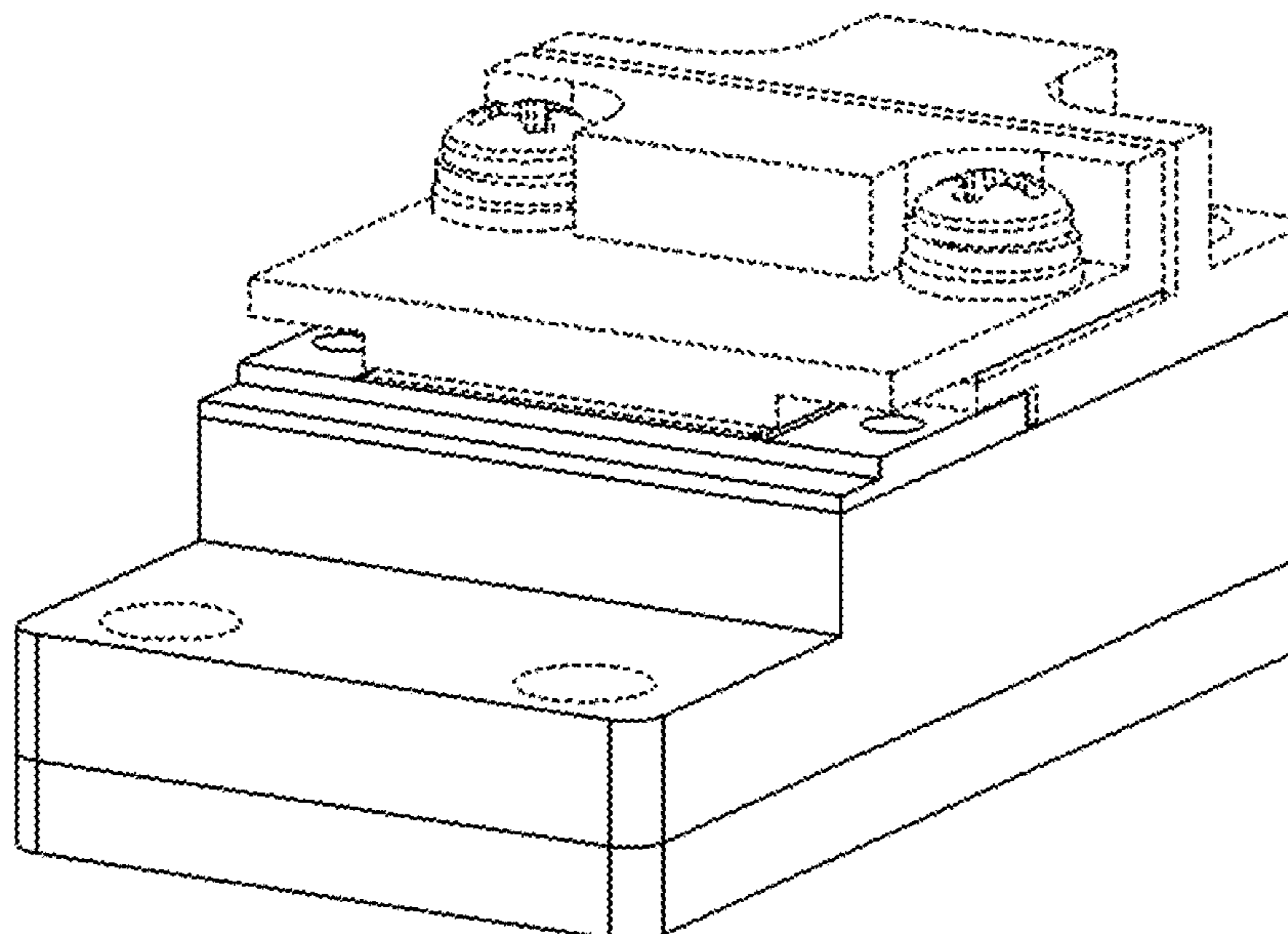
(57) **CLAIM**

The ornamental design for a laser impingement cooler, substantially as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a laser impingement cooler incorporating the design and depicting an optional electrode contact in broken lines;  
 FIG. 2 is a front view of the embodiment of FIG. 1;  
 FIG. 3 is a back view of the embodiment of FIG. 1;  
 FIG. 4 is a left-side elevation view of the embodiment of FIG. 1;  
 FIG. 5 is a right-side elevation view of the embodiment of FIG. 1;  
 FIG. 6 is a top view of the embodiment of FIG. 1;  
 FIG. 7 is a bottom view of the embodiment of FIG. 1;  
 FIG. 8 is a perspective view of a laser impingement cooler incorporating the design and omitting the optional electrode contact depicted in FIG. 1 for clarity of disclosure;  
 FIG. 9 is a front view of the embodiment of FIG. 8;  
 FIG. 10 is a back view of the embodiment of FIG. 8;  
 FIG. 11 is a left-side elevation view of the embodiment of FIG. 8;  
 FIG. 12 is a right-side elevation view of the embodiment of FIG. 8;  
 FIG. 13 is a top view of the embodiment of FIG. 8; and,  
 FIG. 14 is a bottom view of the embodiment of FIG. 8.  
 The broken lines in the drawings depict portions of the laser impingement cooler that form no part of the claimed design.

**1 Claim, 14 Drawing Sheets**



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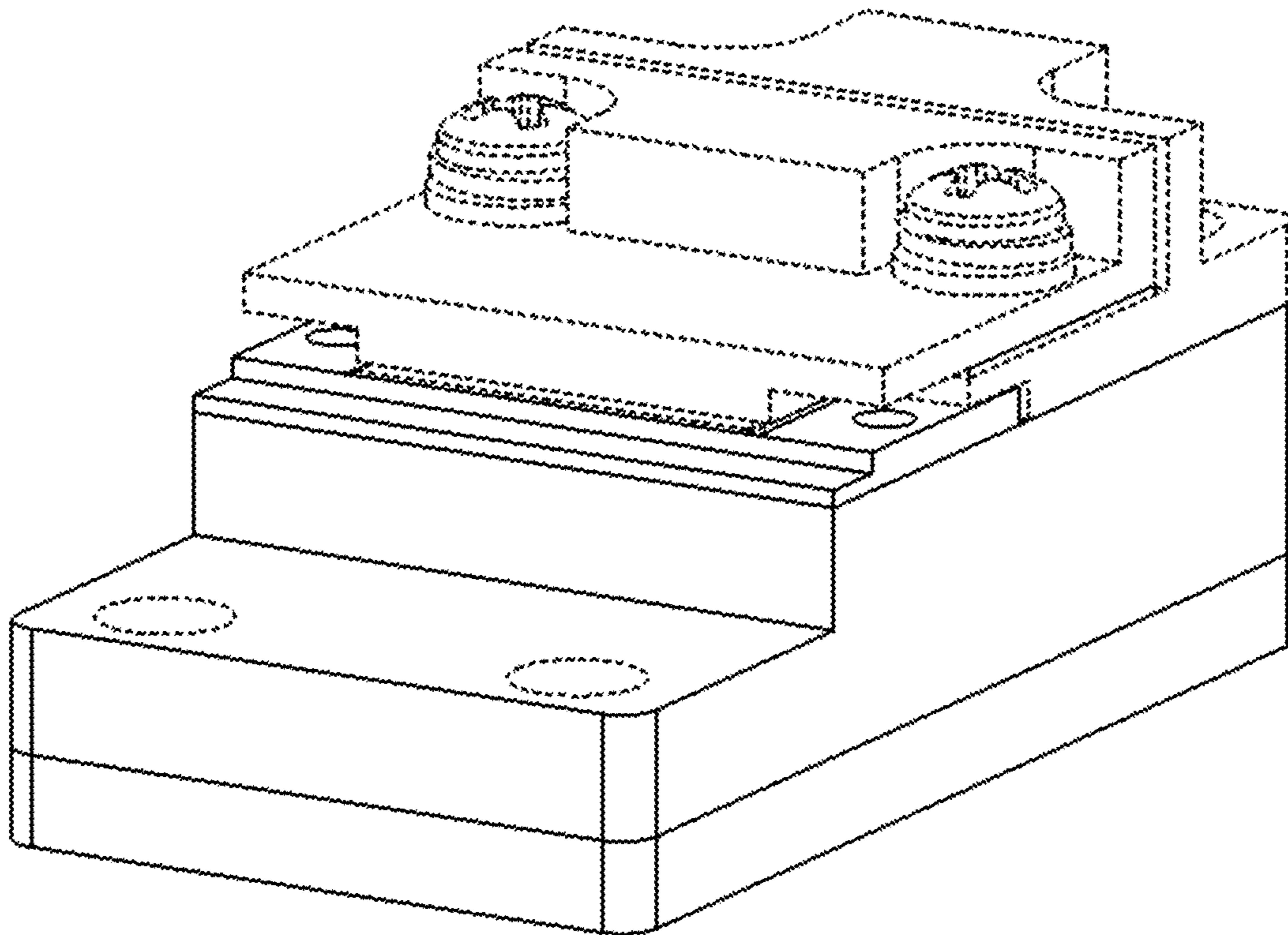


FIG. 1

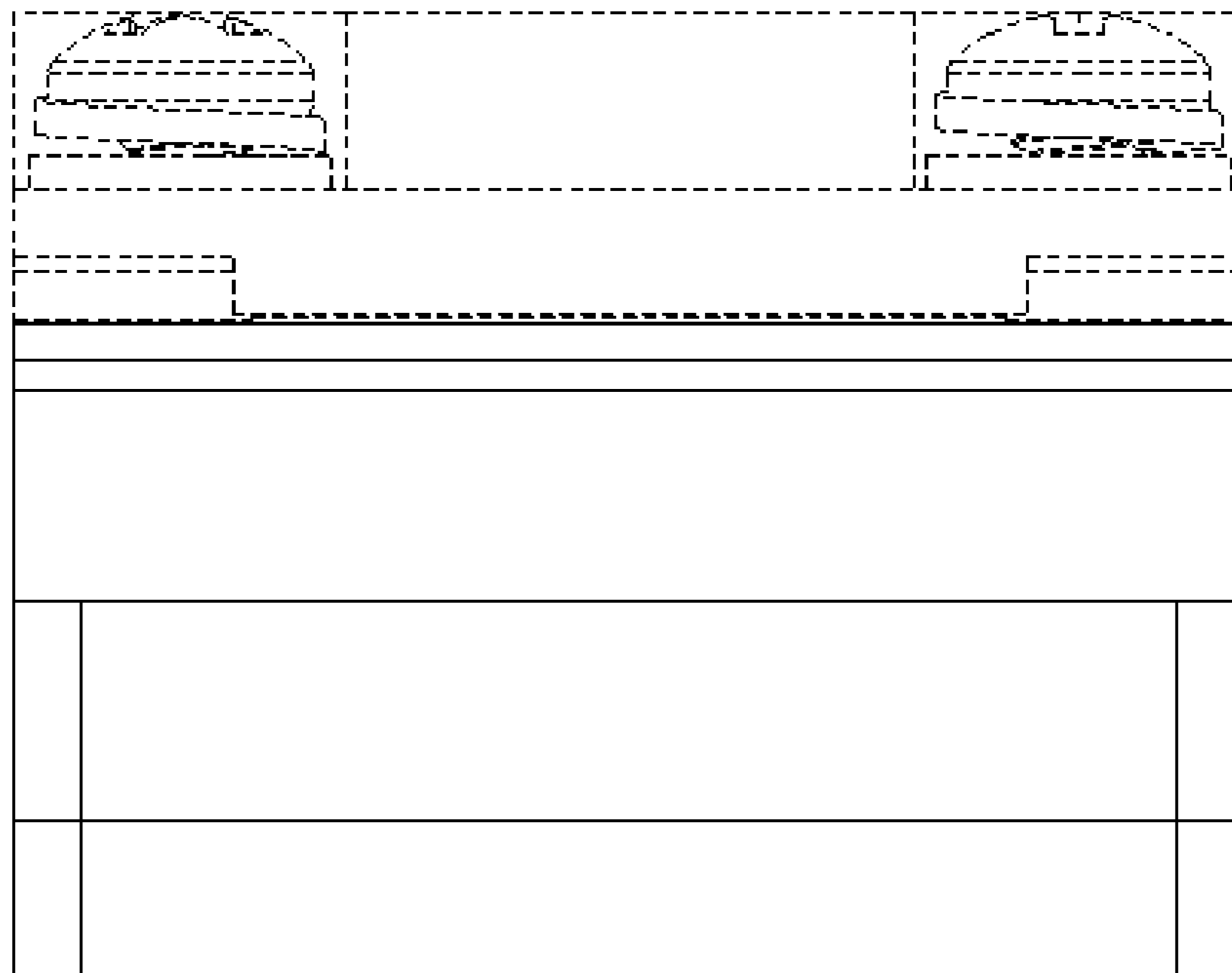


FIG. 2

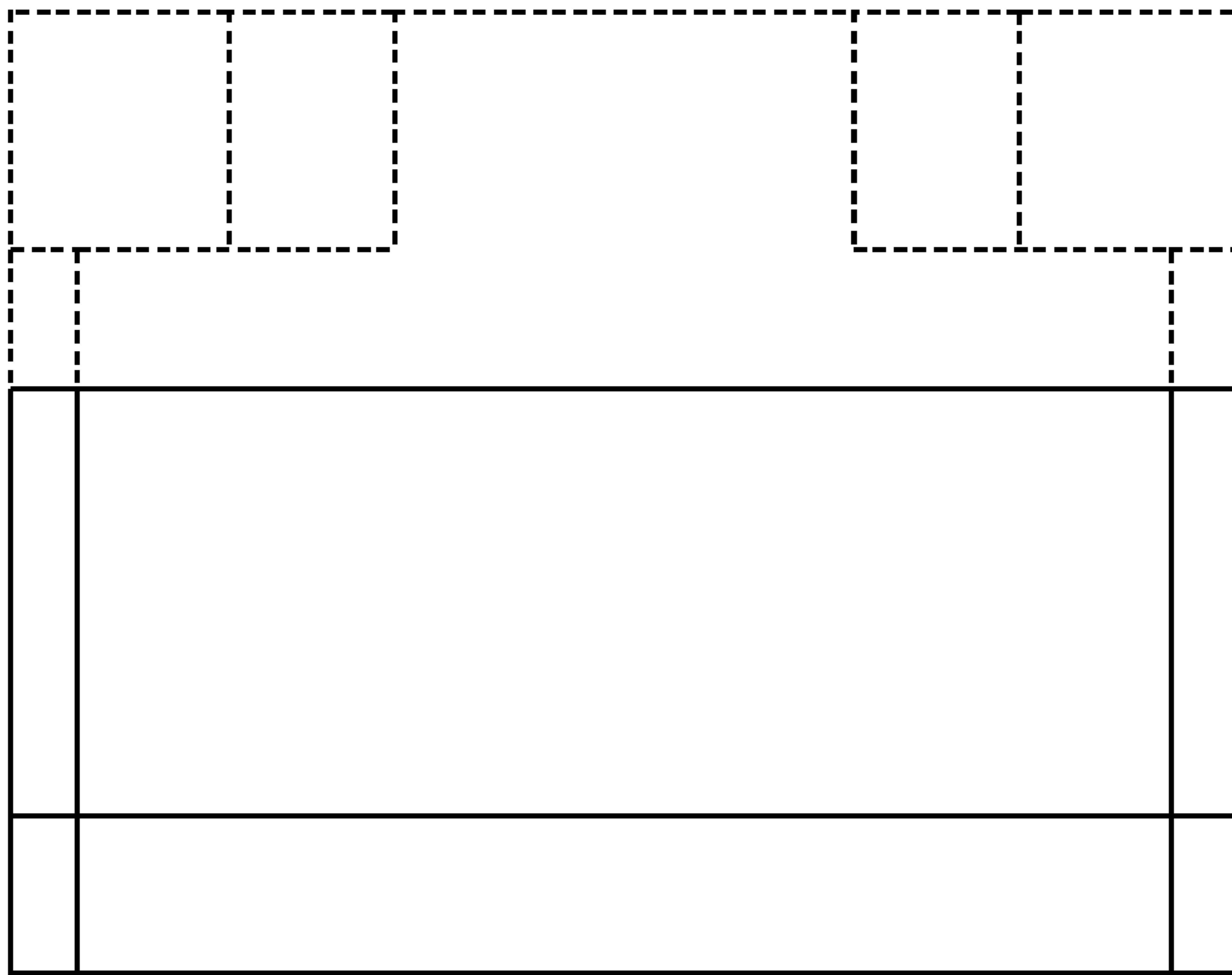


FIG. 3

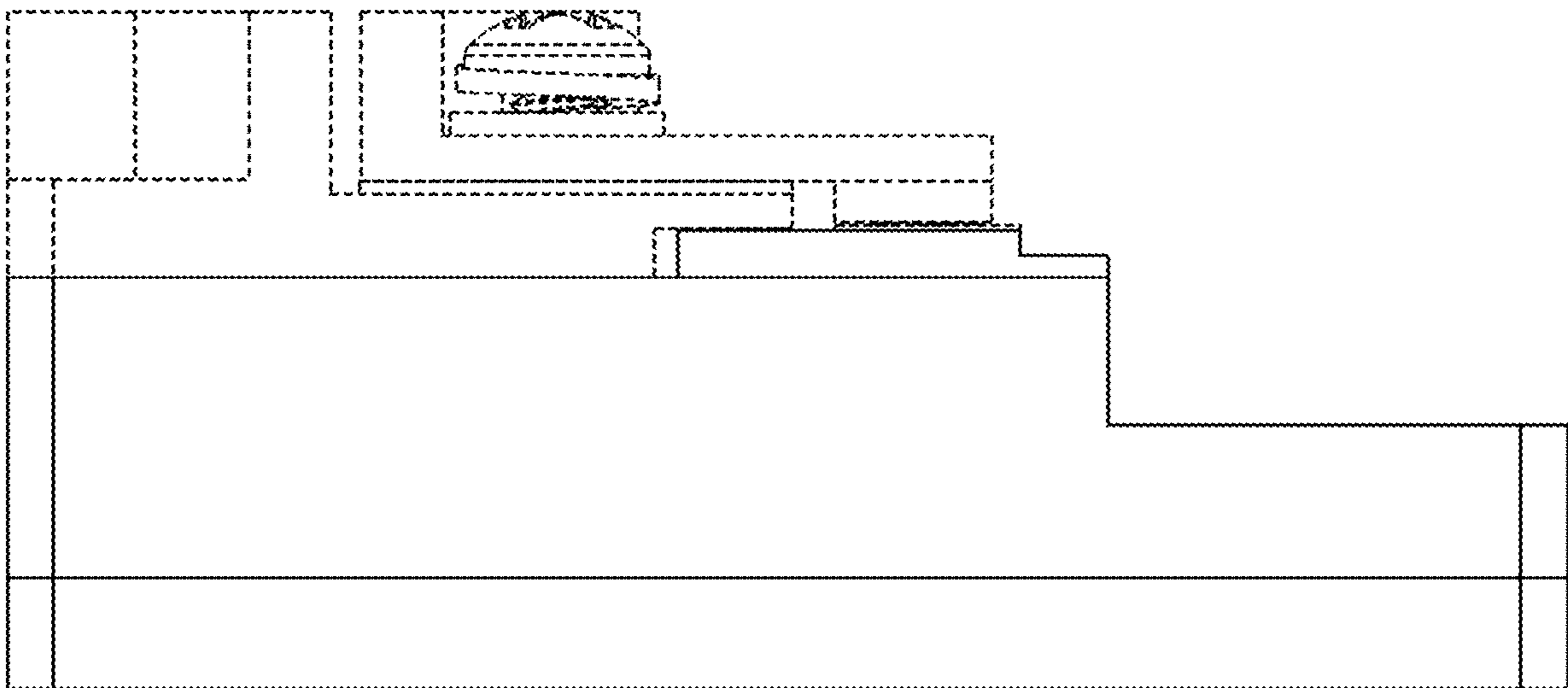


FIG. 4

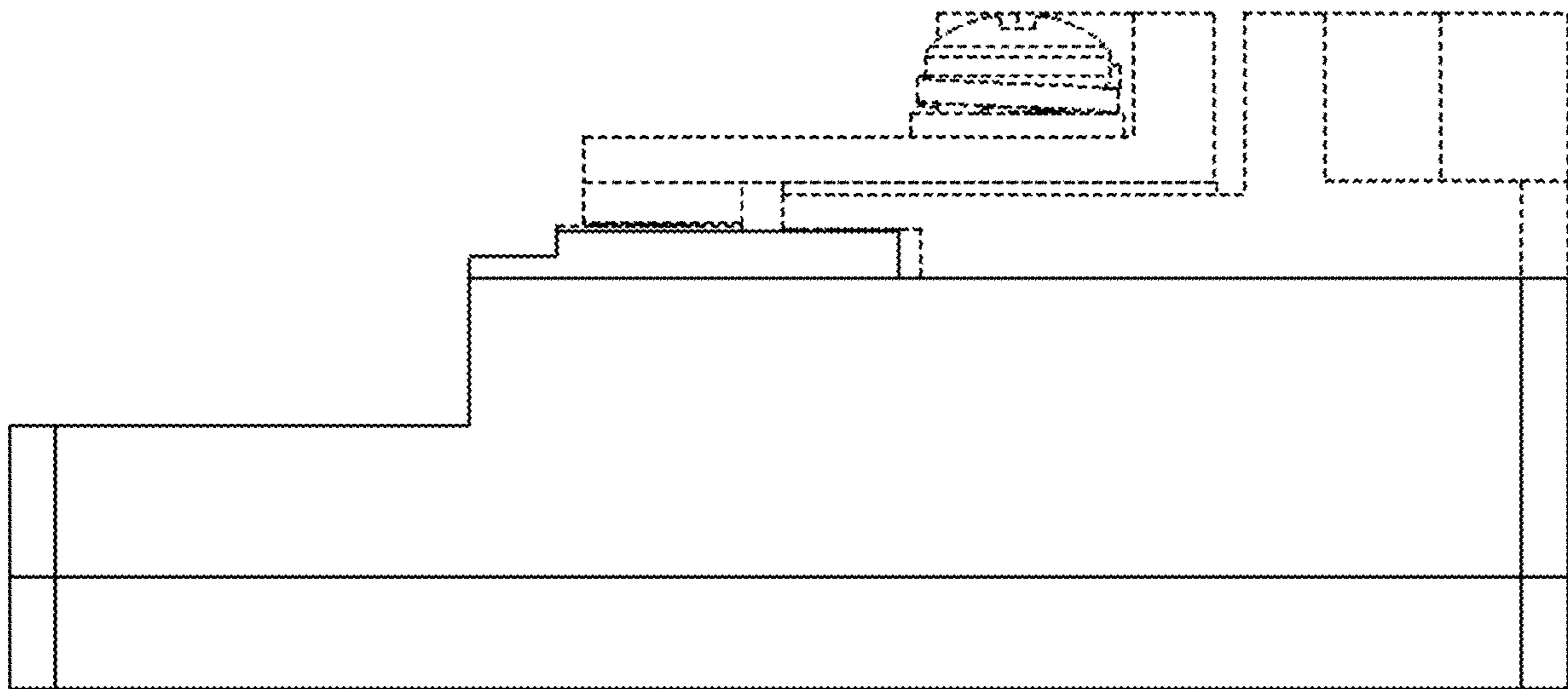


FIG. 5

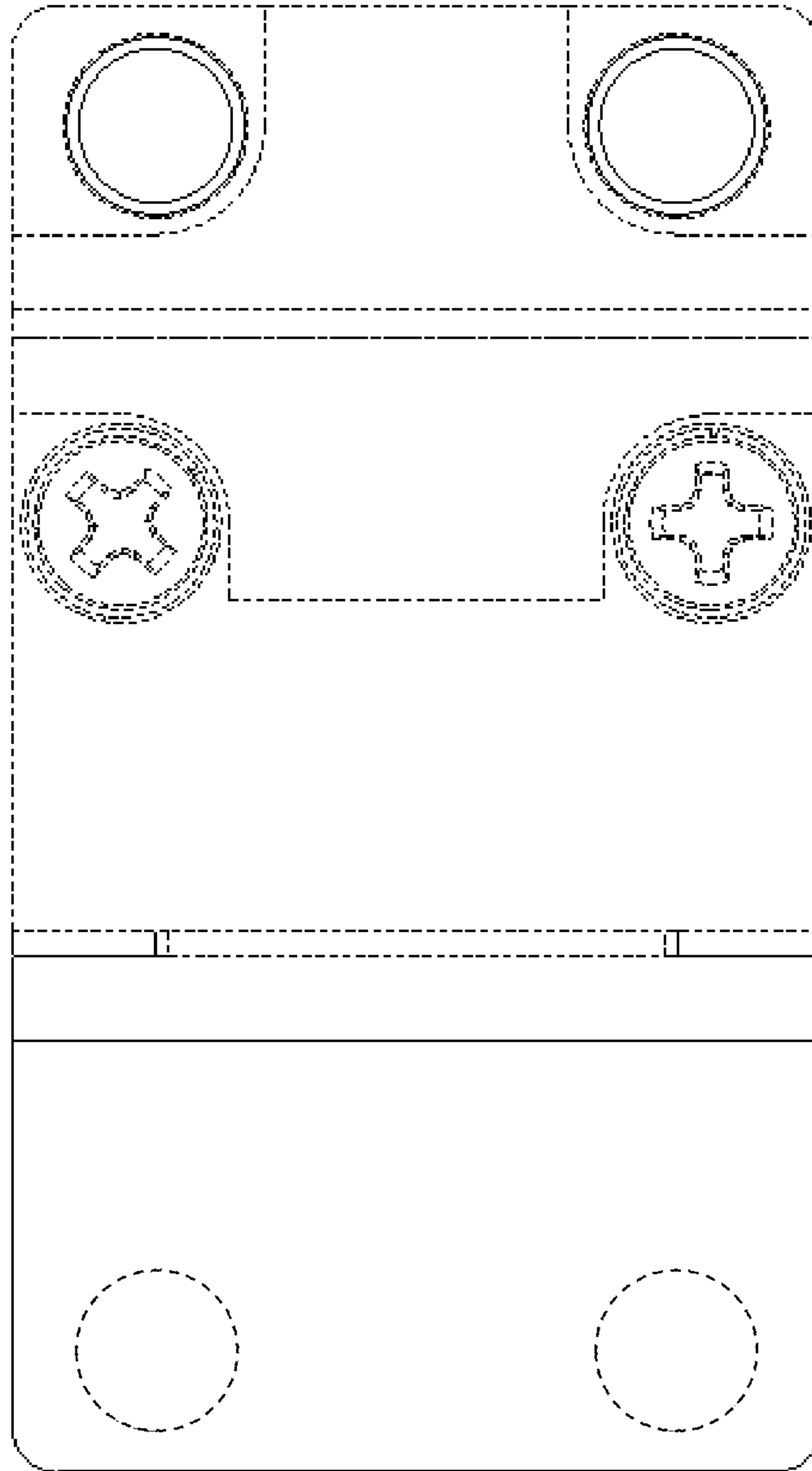


FIG. 6



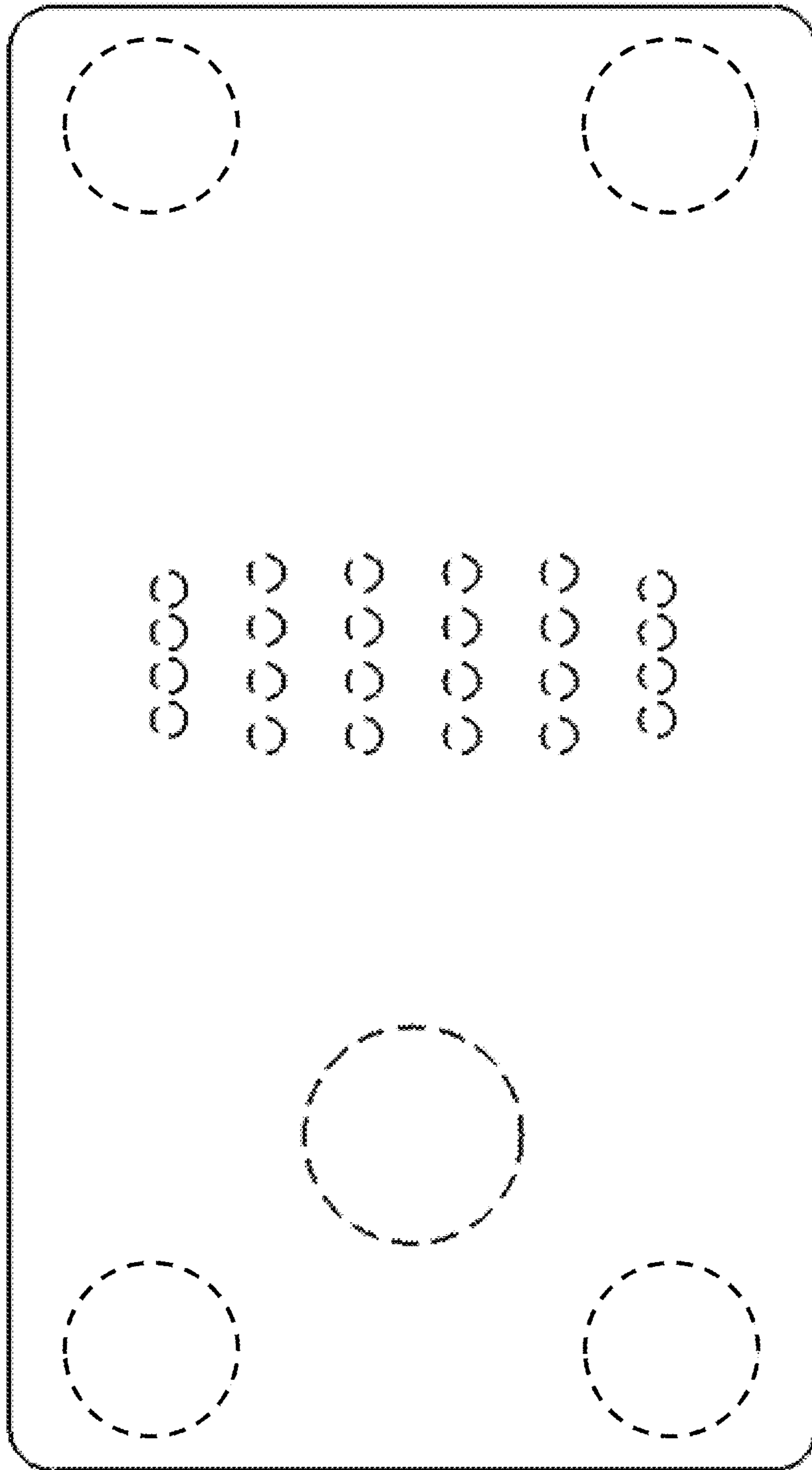
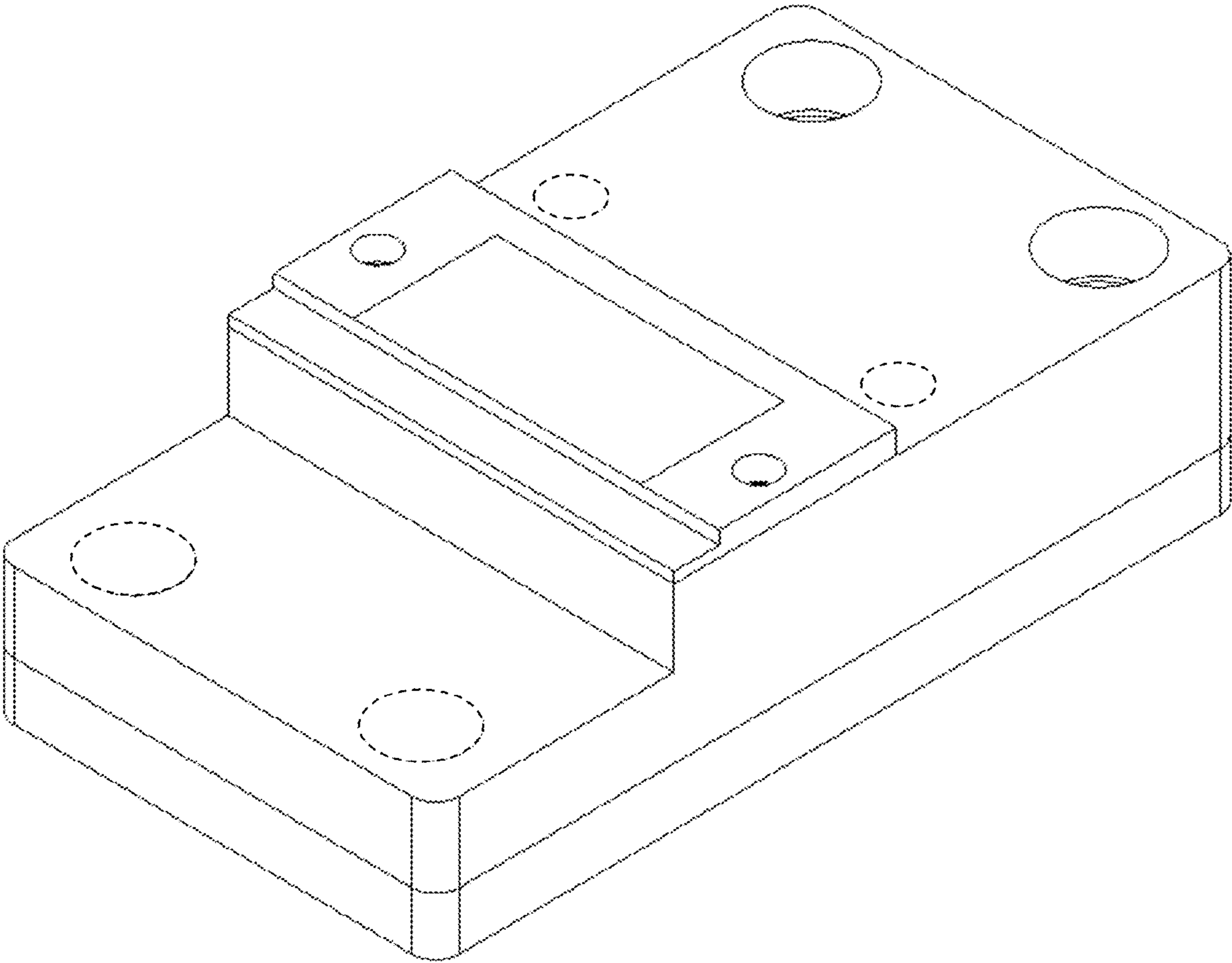
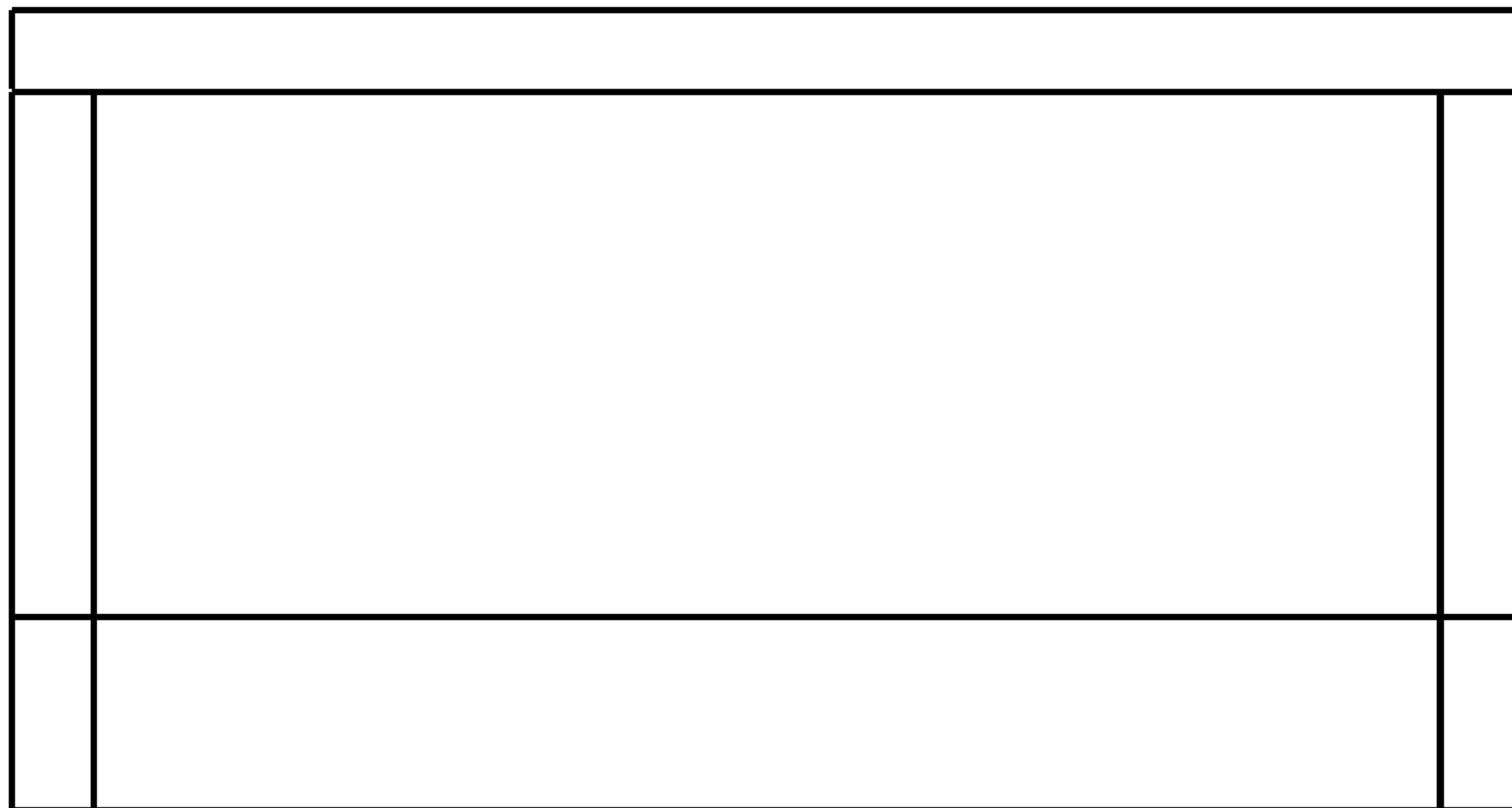


FIG. 7

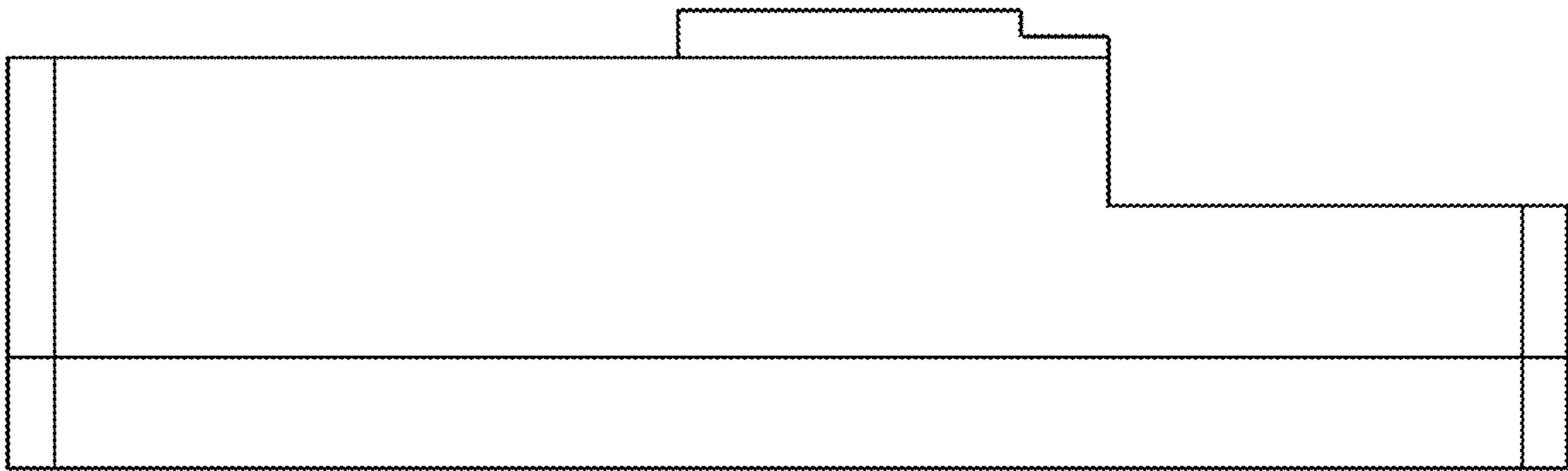


**FIG. 8**


**FIG. 9**



**FIG. 10**



**FIG. 11**

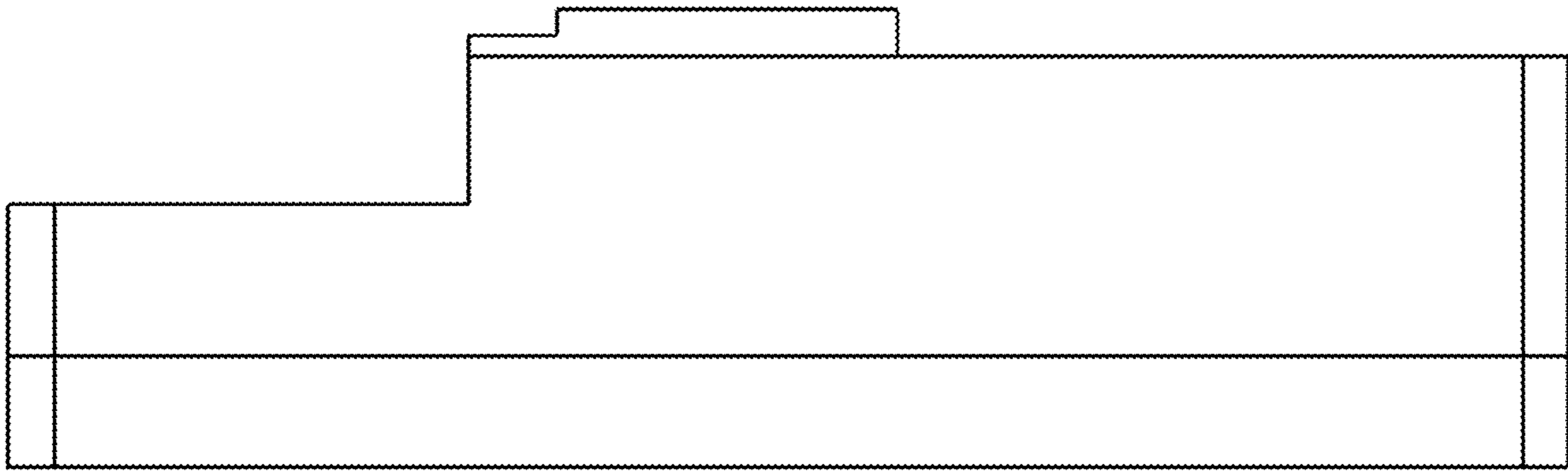


FIG. 12

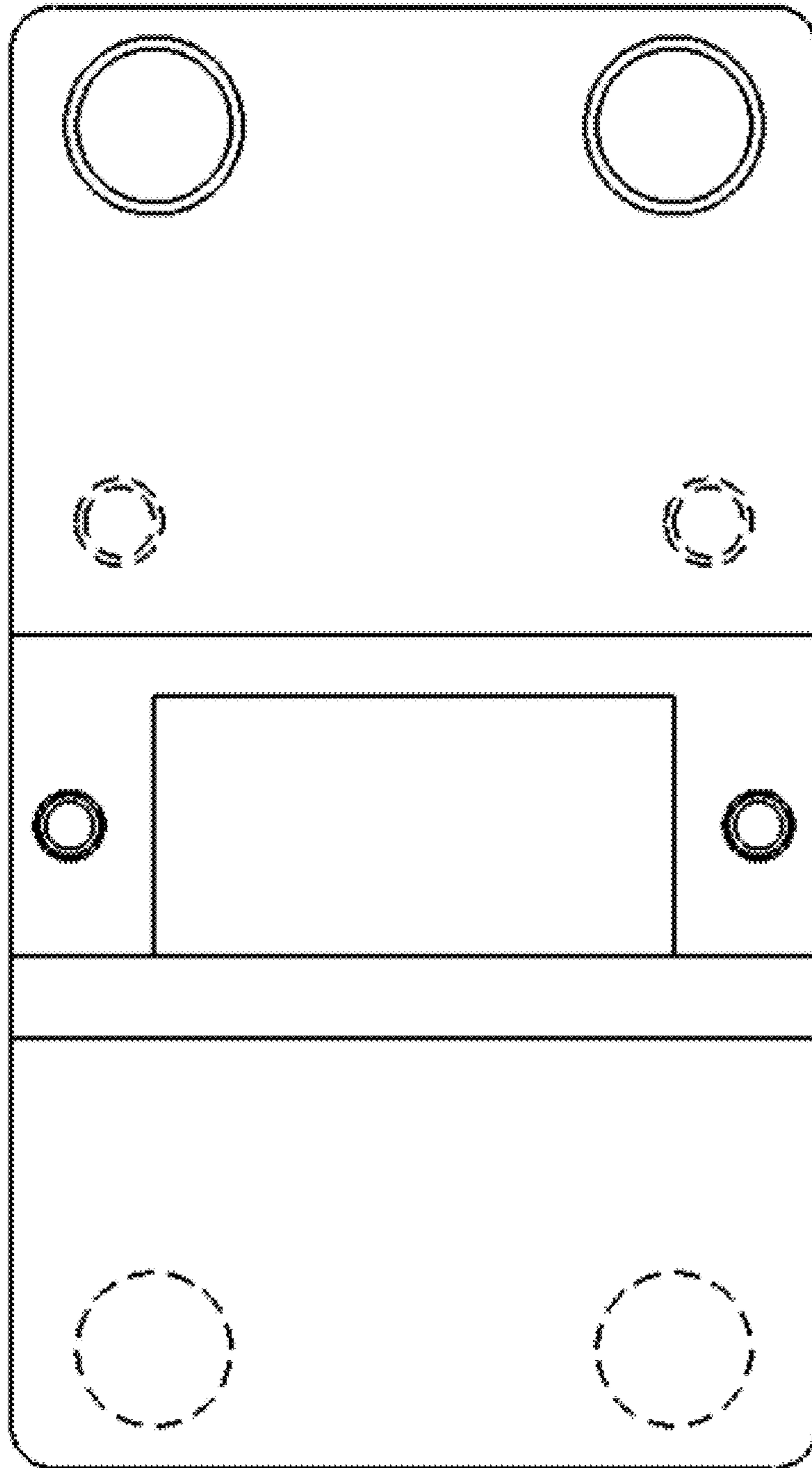


FIG. 13

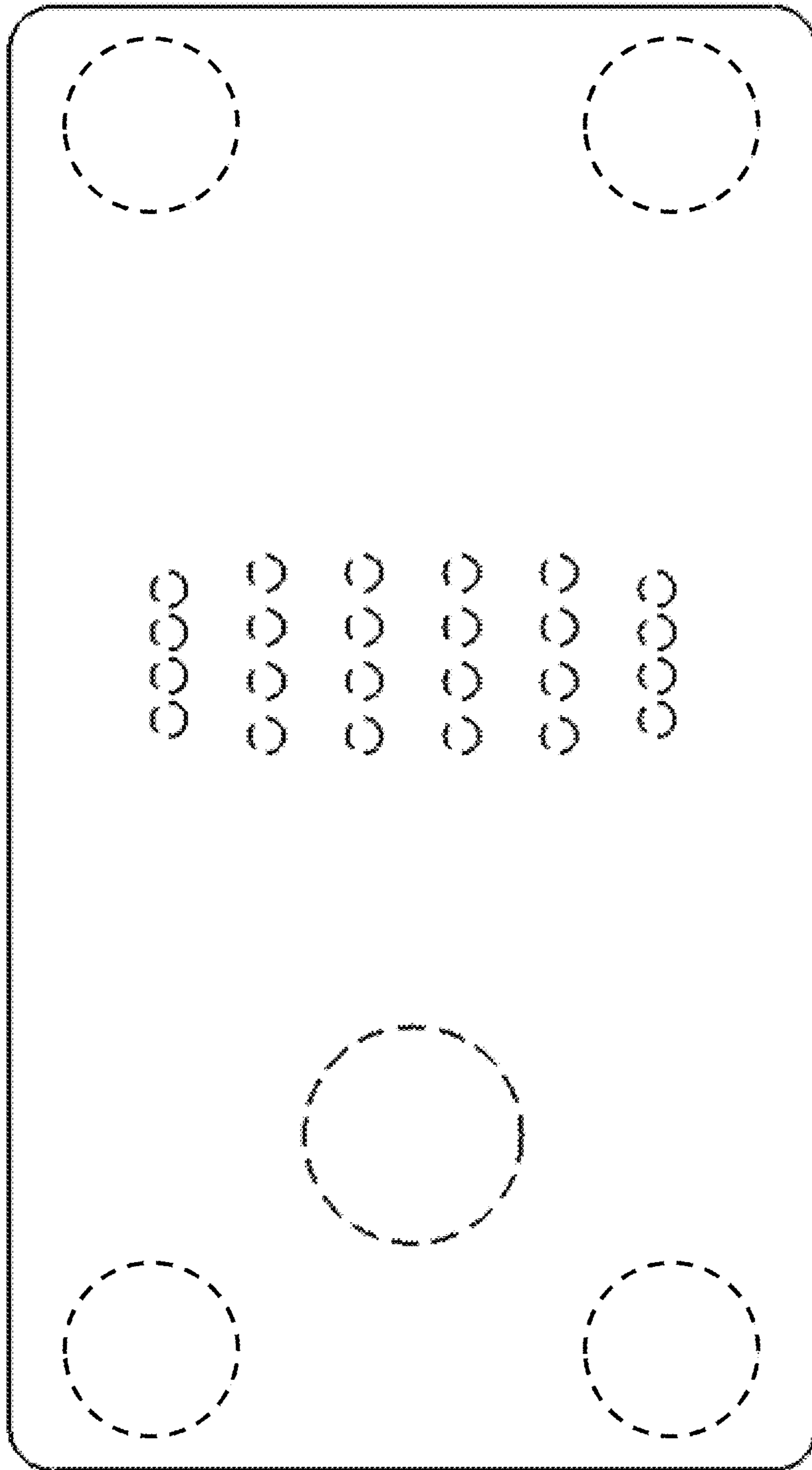


FIG. 14