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

(10) **Patent No.:** **US D983,146 S**  
(45) **Date of Patent:** **\*\* Apr. 11, 2023**

(54) **MEZZANINE CONNECTOR HOUSING**

D697,489 S 1/2014 Smith et al.  
D704,653 S 5/2014 Smith et al.  
D704,655 S 5/2014 Smith et al.

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(JP)

(Continued)

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**OTHER PUBLICATIONS**

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(JP)

Restriction Requirement for U.S. Appl. No. 29/737,479, consisting of 6 pages, dated Dec. 7, 2021.

(Continued)

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

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(21) Appl. No.: **29/792,242**

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(22) Filed: **Mar. 15, 2022**

**Related U.S. Application Data**

(62) Division of application No. 29/737,479, filed on Jun. 9, 2020.

(57) **CLAIM**

The ornamental design for mezzanine connector housing, as shown and described.

**Foreign Application Priority Data**

Dec. 12, 2019 (JP) ..... 2019-027526  
Dec. 12, 2019 (JP) ..... 2019-027527

**DESCRIPTION**

(51) **LOC (14) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/147; D13/133**

(58) **Field of Classification Search**  
USPC ..... D13/107, 110, 118, 120, 123, 125, 133,  
D13/146–147, 149, 154, 184, 199  
CPC .... H01R 13/24; H01R 13/50; H01R 13/2492;  
H01R 13/6582; H01R 43/20; H01R  
12/73; H01L 23/49861; H02B 1/056  
See application file for complete search history.

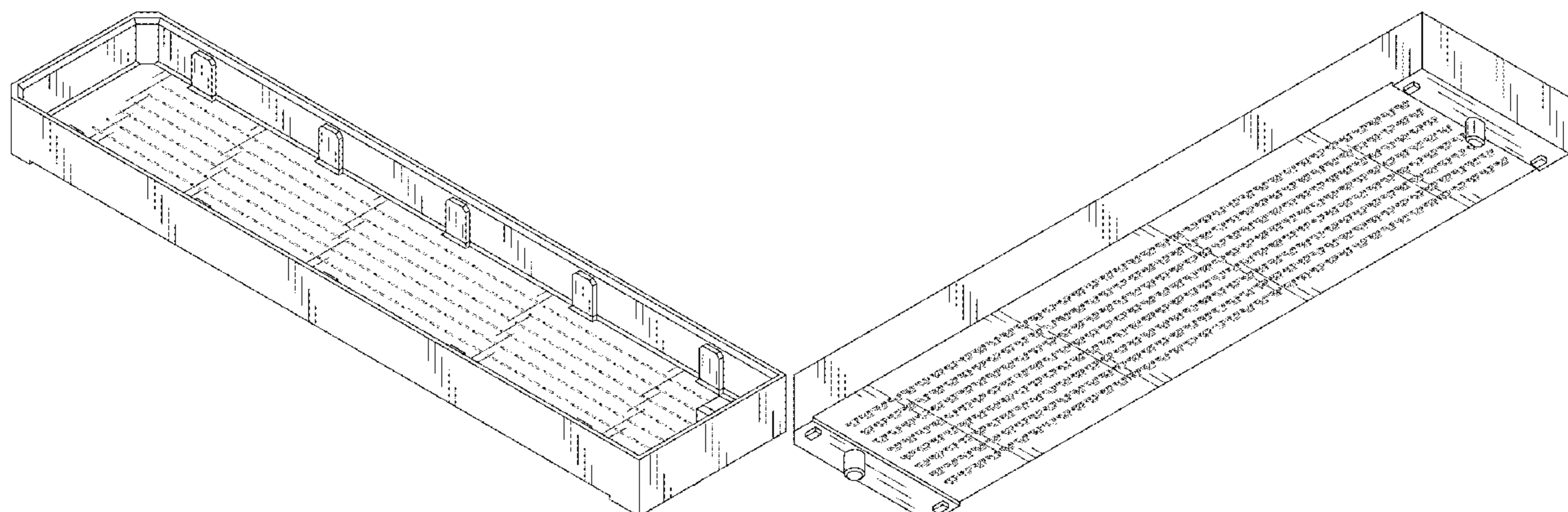
FIG. 1 is a front view of a mezzanine connector housing, showing our new design in an embodiment;  
FIG. 2 is a back view thereof;  
FIG. 3 is a top view thereof;  
FIG. 4 is a bottom thereof;  
FIG. 5 is a left side view thereof;  
FIG. 6 is a right side view thereof;  
FIG. 7 is a first perspective view thereof;  
FIG. 8 is a second perspective view thereof;  
FIG. 9 is a reference disassembled perspective view indicating an example state of the mezzanine connector housing with a socket; and,  
FIG. 10 is a reference perspective view indicating an example state of use thereof.  
The broken lines shown in FIGS. 2, 3, 7, and 8 are for illustration only and do not form part of the claimed design. The socket in FIGS. 9 and 10 is provided to illustrate an environment related to the claimed design and forms no part of the claimed design.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

6,918,776 B2 \* 7/2005 Spink, Jr. .... H01R 12/716  
439/74  
D611,420 S 3/2010 Takada et al.  
D611,421 S 3/2010 Takada et al.

**1 Claim, 3 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D704,657 S	5/2014	Smith et al.	
D704,659 S	5/2014	Smith et al.	
D704,661 S	5/2014	Smith et al.	
D704,663 S	5/2014	Smith et al.	
D705,173 S	5/2014	Smith et al.	
D746,236 S *	12/2015	Horchler .....	D13/154
D751,507 S *	3/2016	Horchler .....	D13/147
D804,422 S	12/2017	Sasaki et al.	
10,084,257 B2	9/2018	Pelozza et al.	
2005/0170700 A1 *	8/2005	Shuey .....	H01R 13/6477 439/701
2005/0196987 A1 *	9/2005	Shuey .....	H01R 12/716 439/108
2021/0257771 A1	8/2021	Shimoyama	

OTHER PUBLICATIONS

Non-Final Office Action for U.S. Appl. No. 29/737,479, consisting of 6 pages, dated Mar. 2, 2022.

Notice of Allowance for U.S. Appl. No. 29/737,479, consisting of 9 pages, dated Oct. 5, 2022.

\* cited by examiner

FIG. 1

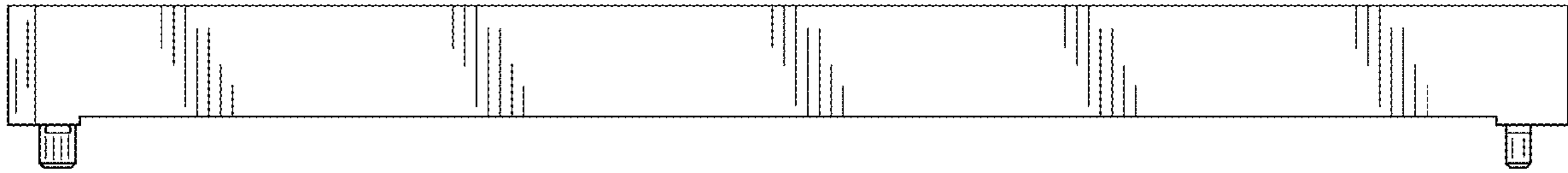


FIG. 2

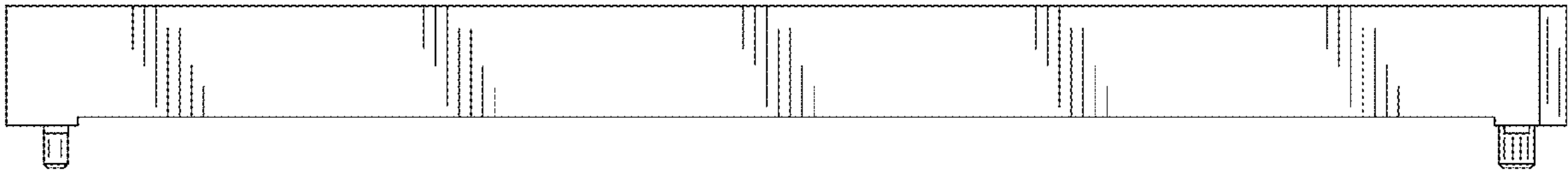


FIG. 3

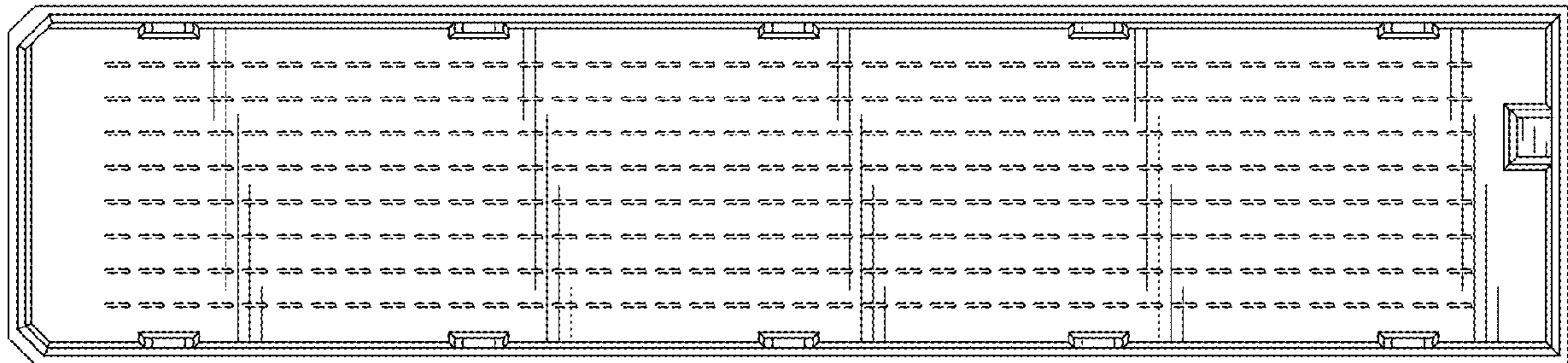


FIG. 4

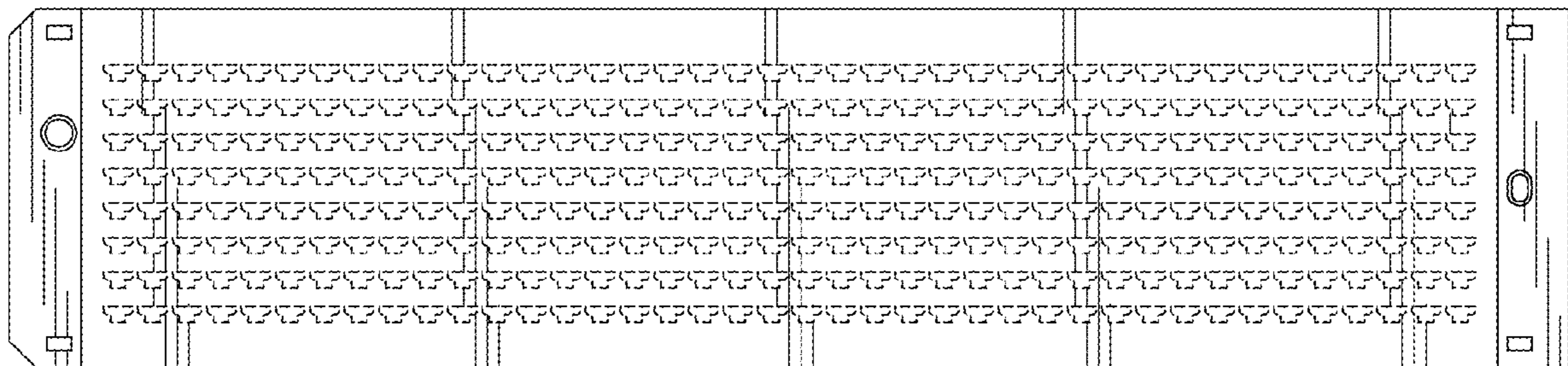


FIG. 5

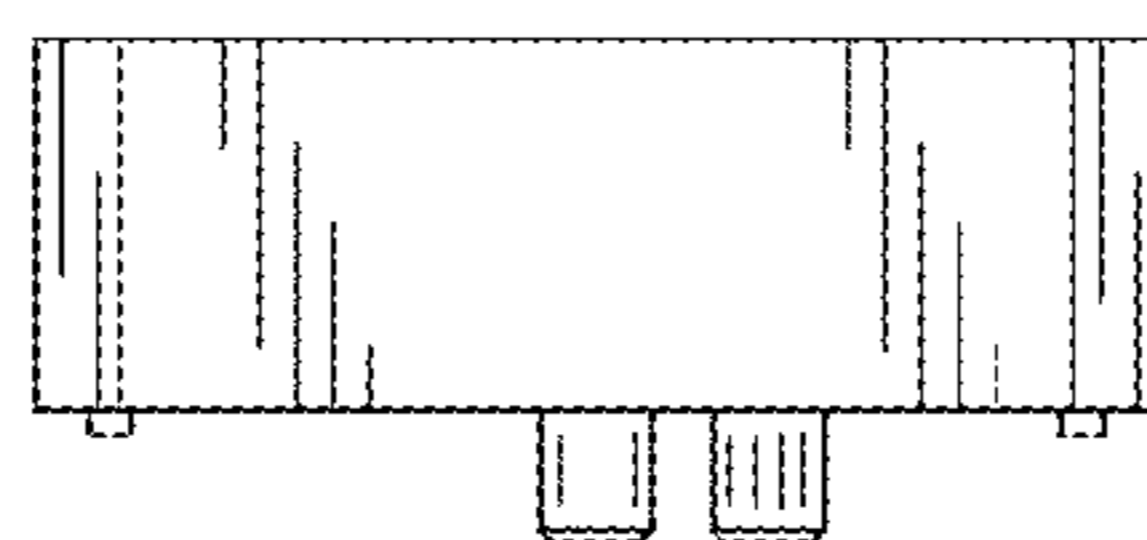


FIG. 6

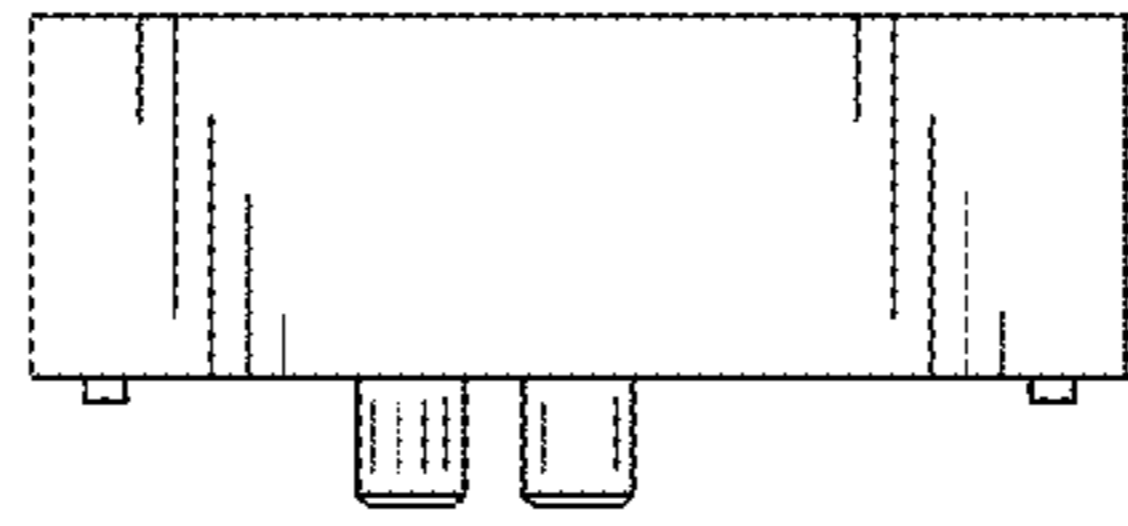


FIG. 7

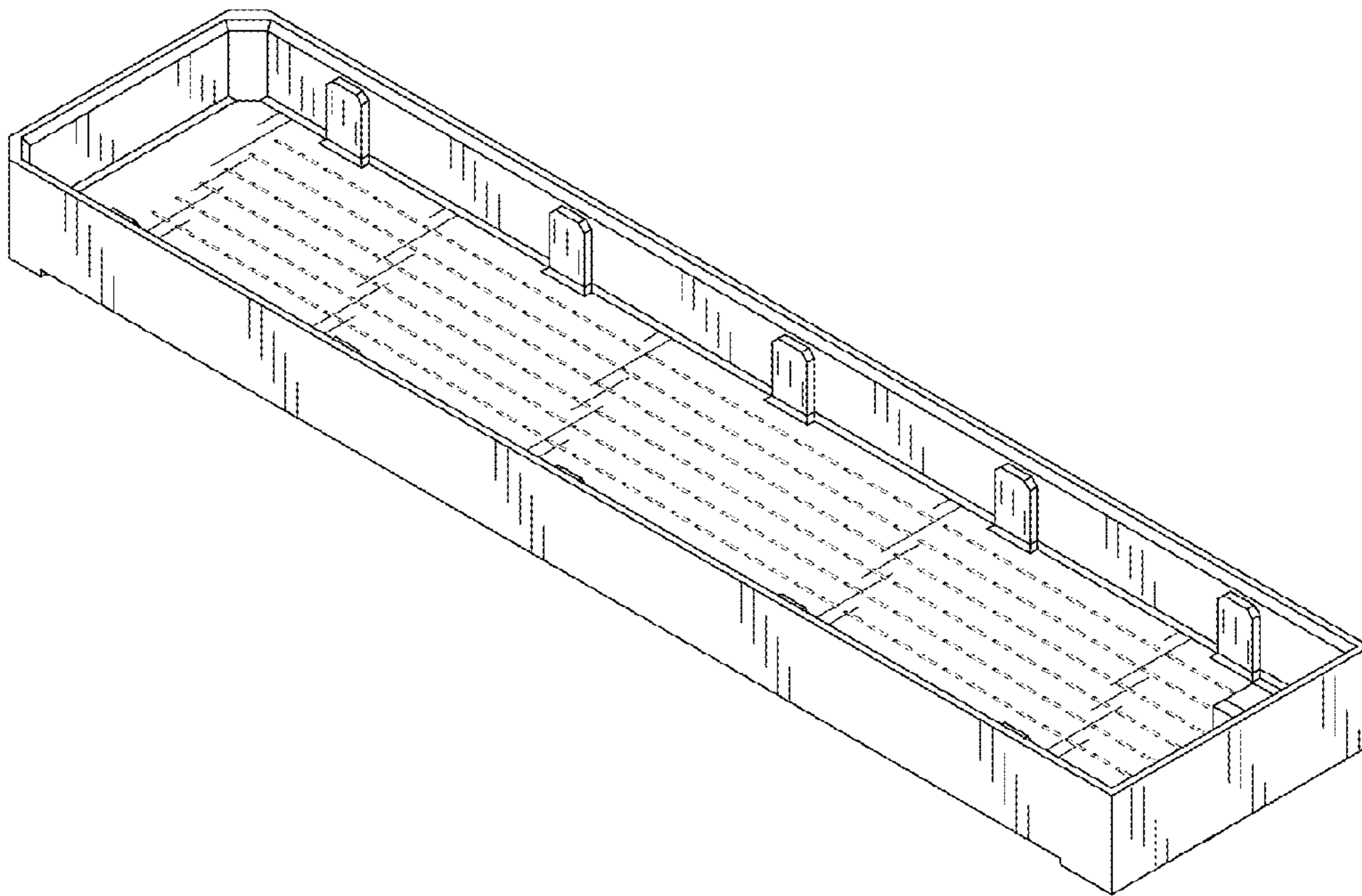


FIG. 8

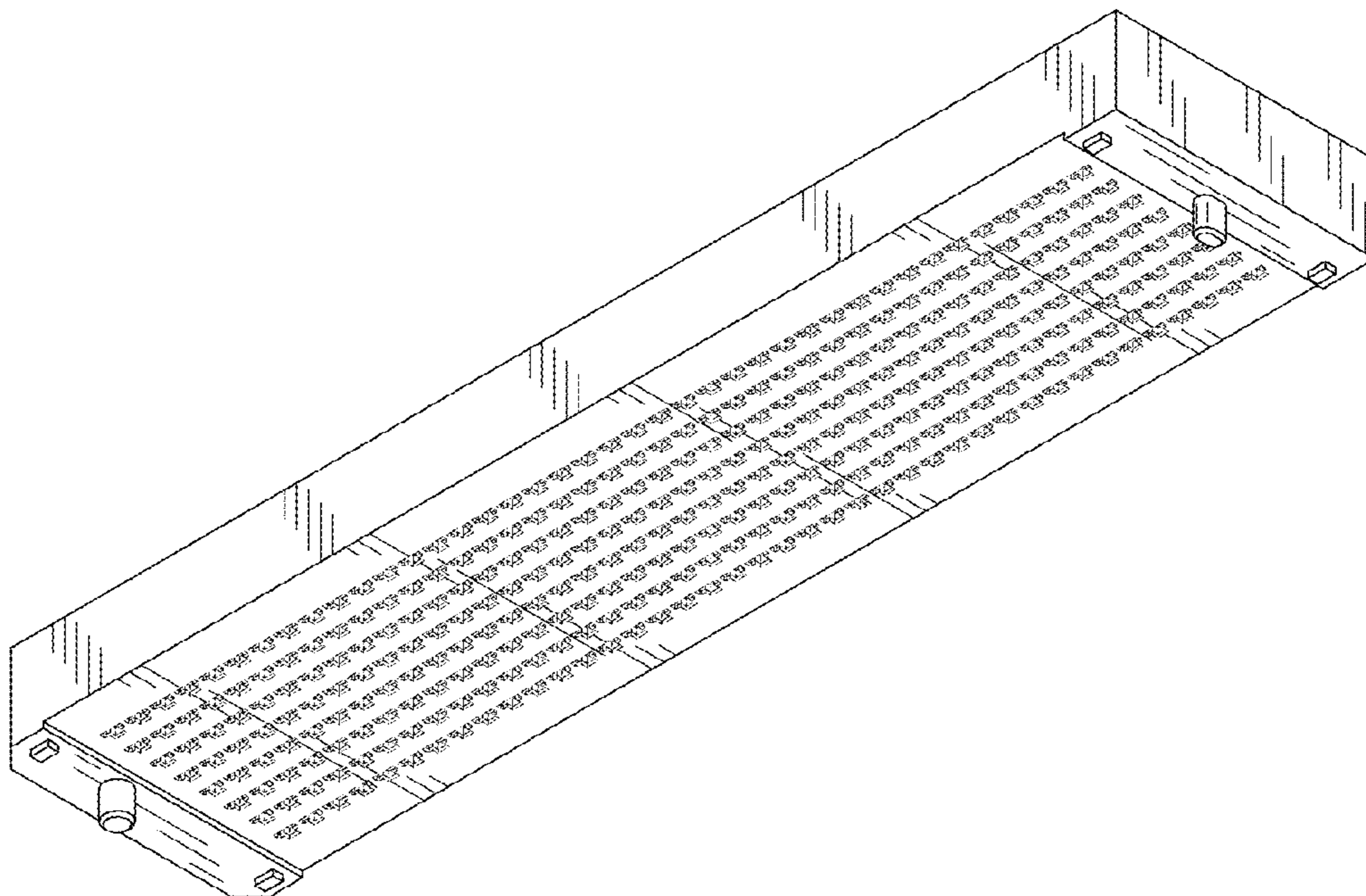


FIG. 9

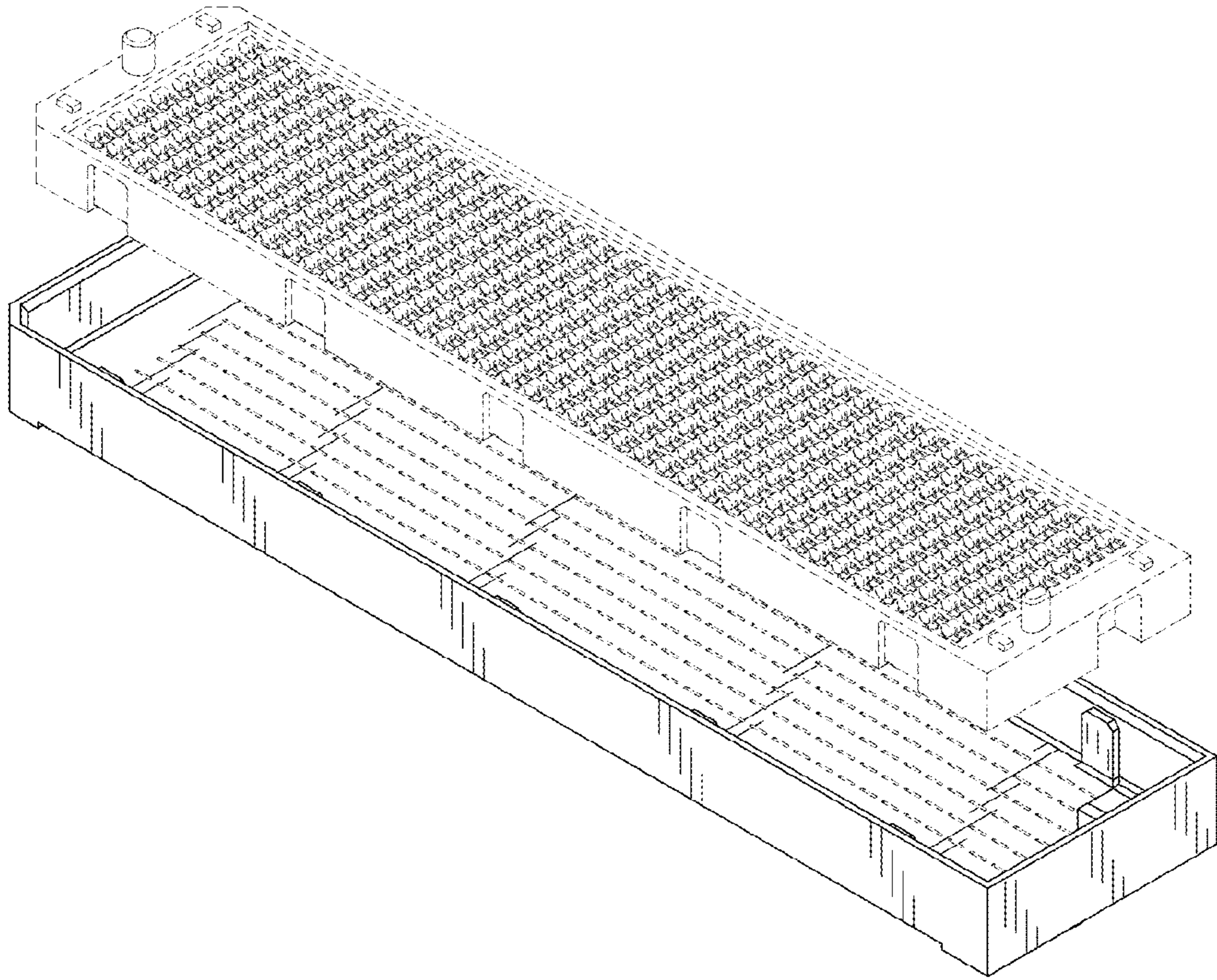


FIG. 10

