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

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(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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(Continued)

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OTHER PUBLICATIONS

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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**

(74) *Attorney, Agent, or Firm* — Hamilton, Brook, Smith & Reynolds, P.C.

(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.

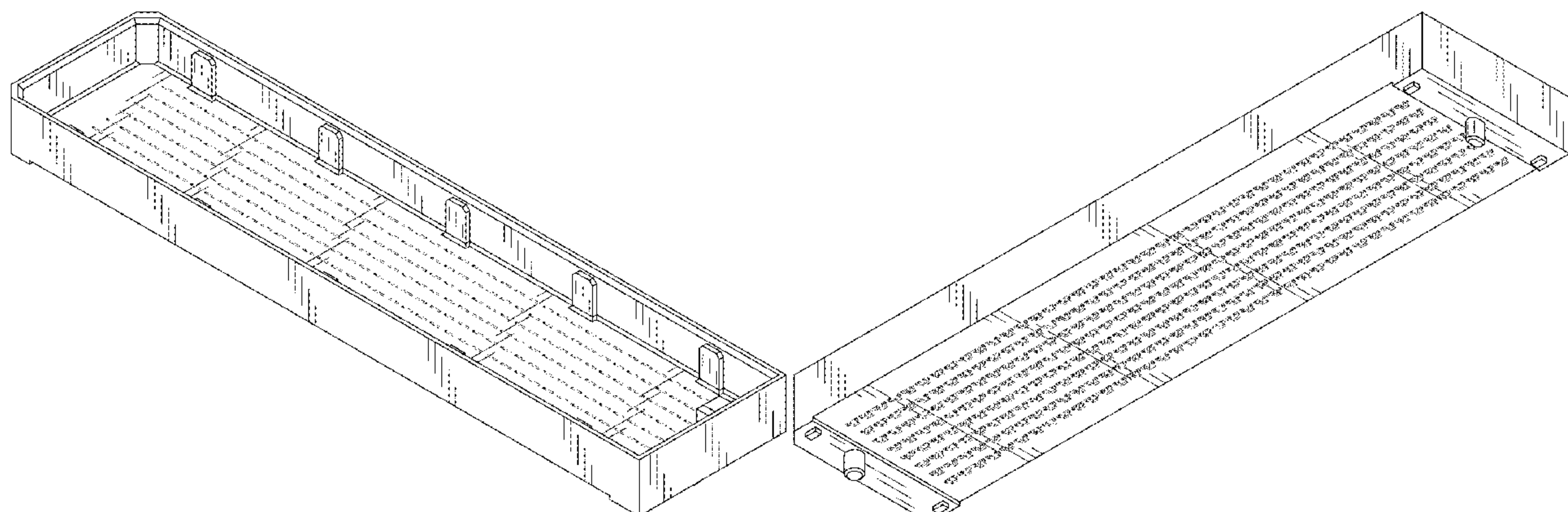
FIG. 1 is a front view of a mezzanine connector housing, showing our new design in an embodiment;
FIG. 2 is a back view thereof;
FIG. 3 is a top view thereof;
FIG. 4 is a bottom thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a first perspective view thereof;
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 Pelosa 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

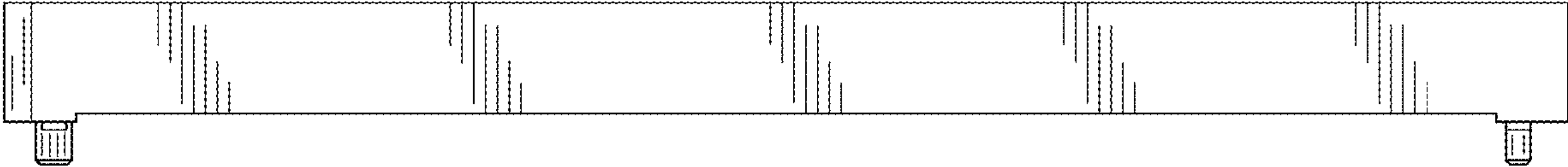


FIG. 2

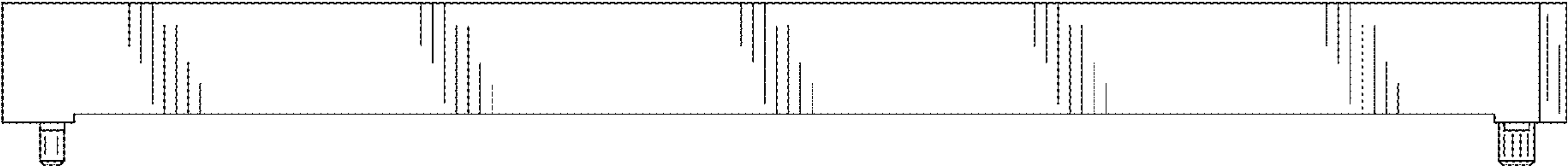


FIG. 3

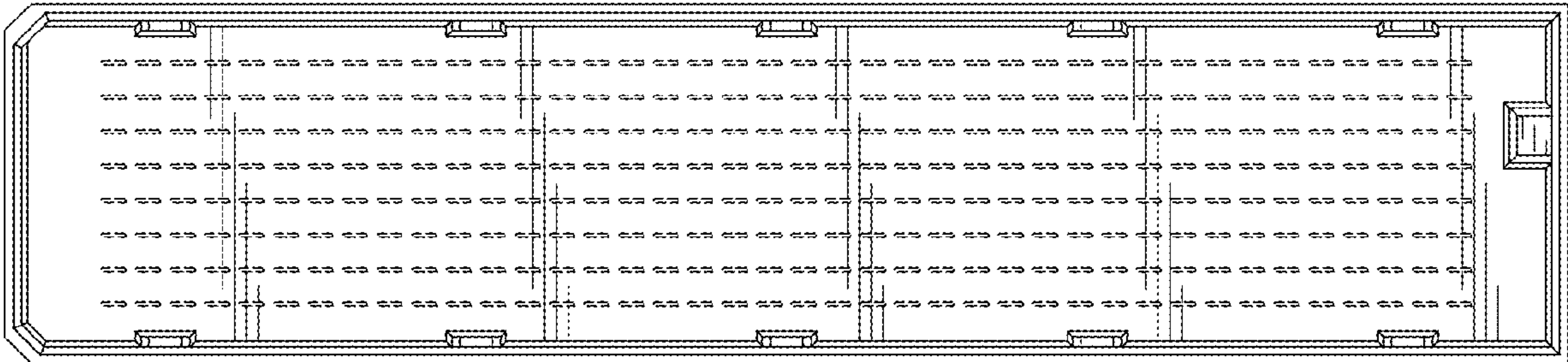


FIG. 4

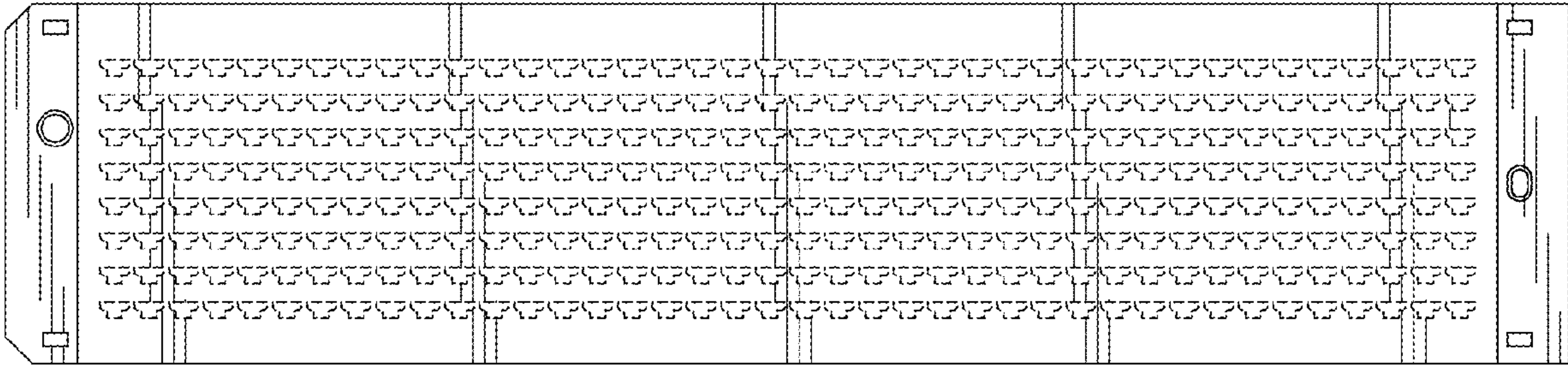


FIG. 5

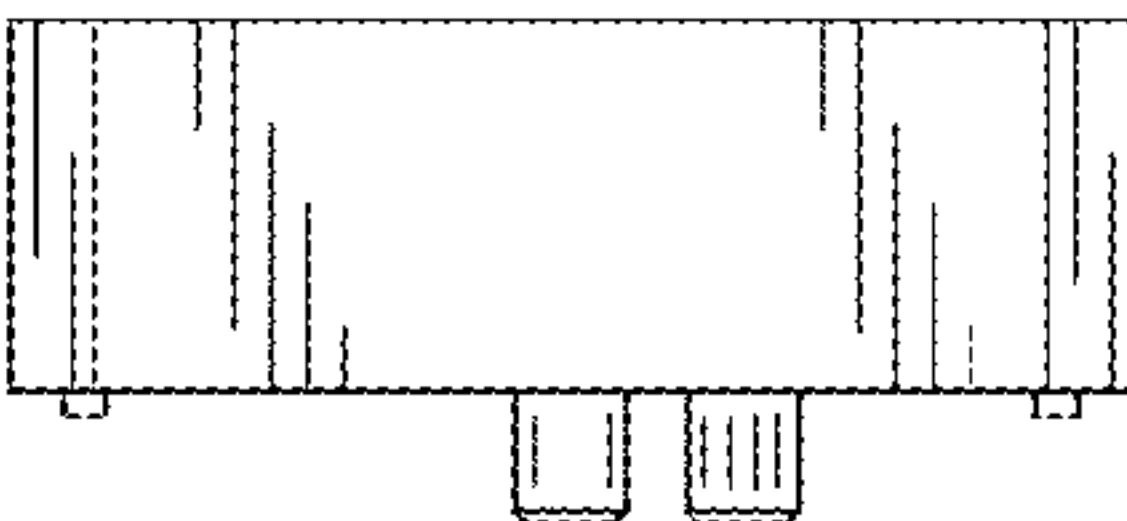


FIG. 6

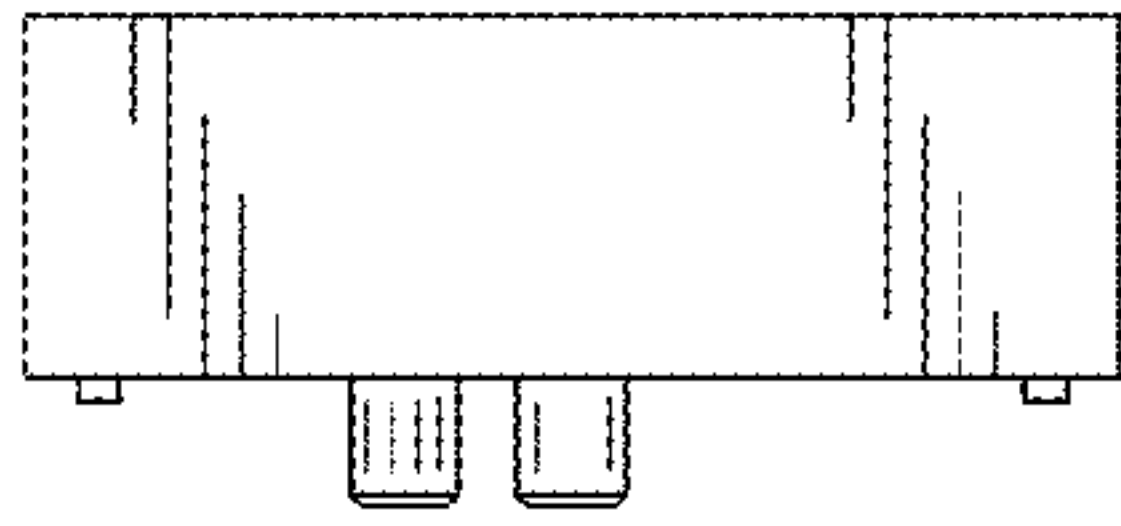


FIG. 7

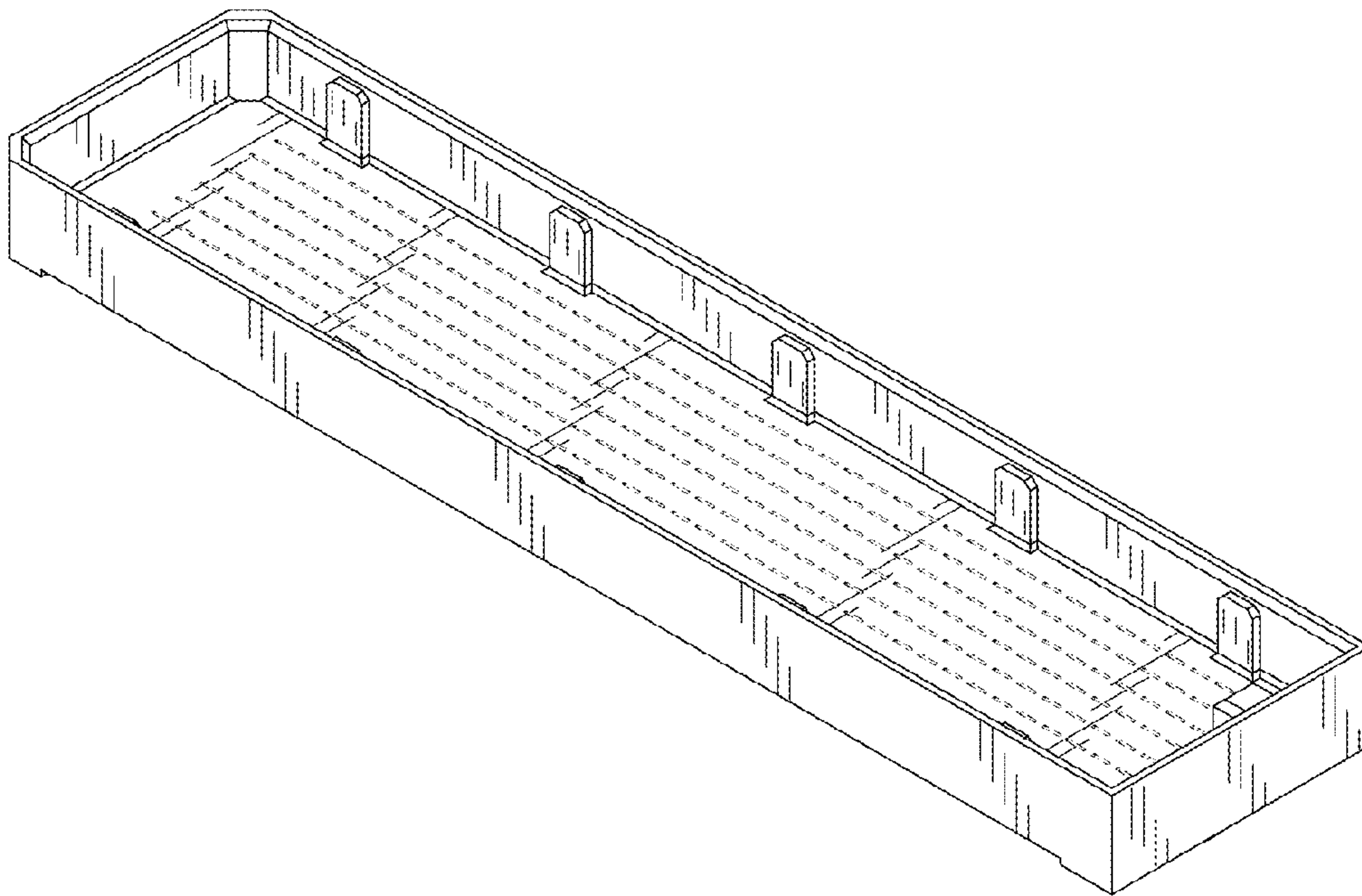


FIG. 8

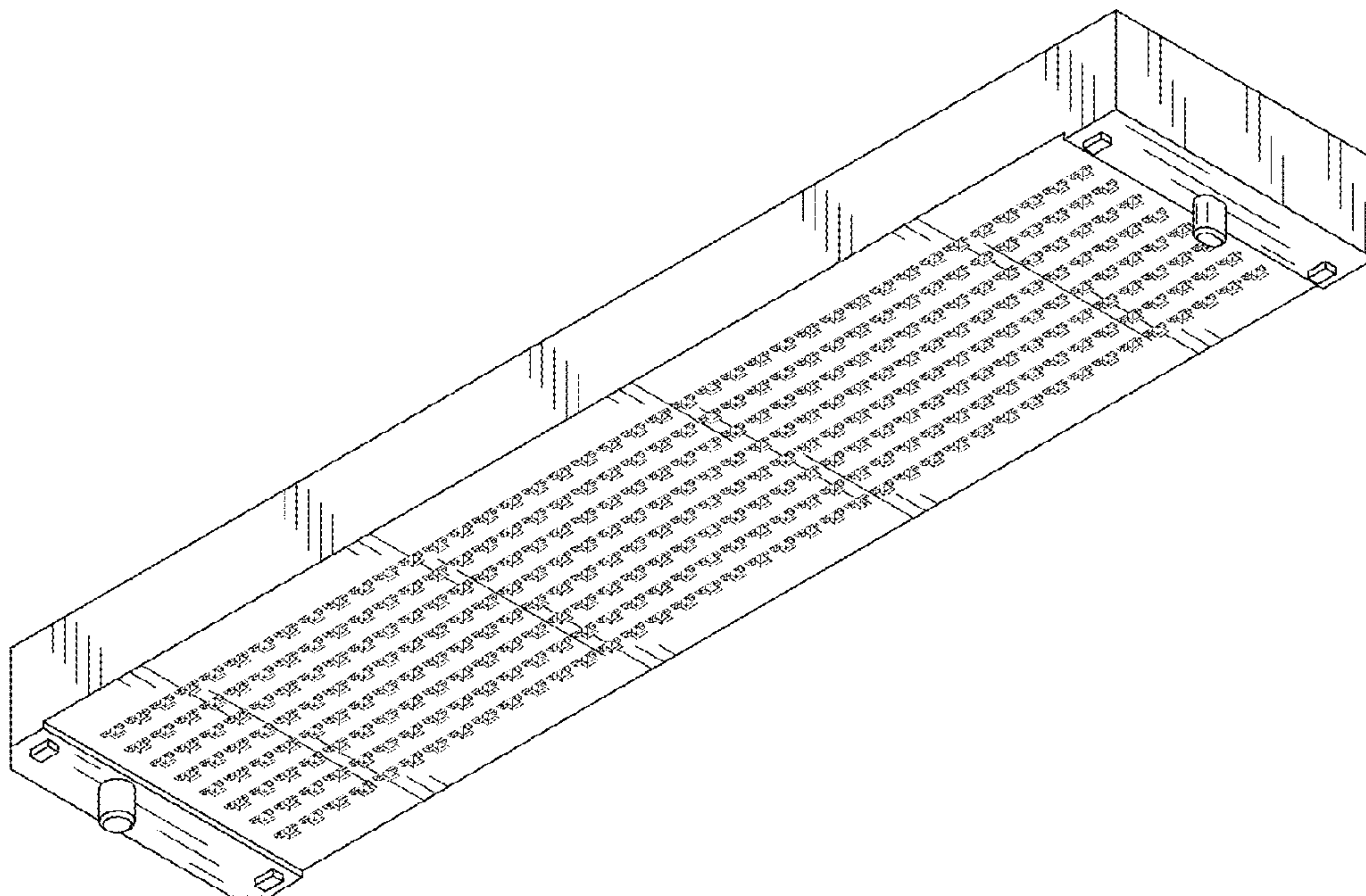


FIG. 9

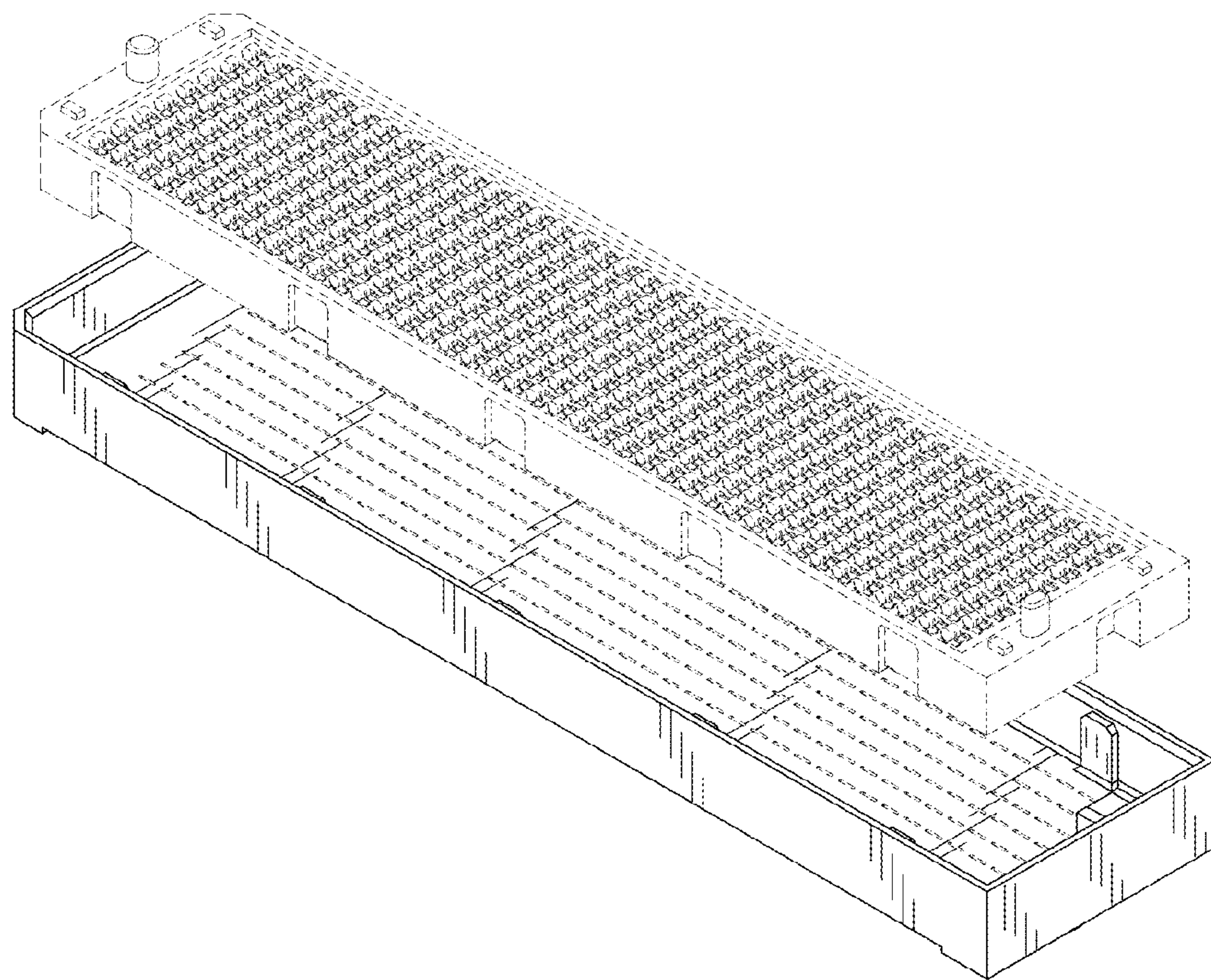


FIG. 10

