



US00D686159S

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

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(45) **Date of Patent:** **** Jul. 16, 2013**

(54) **RELAY CONNECTOR**

D612,335 S * 3/2010 Lee D13/147
D635,924 S * 4/2011 Schrader D13/147
8,151,457 B2 * 4/2012 Hammond et al. 29/884

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Yoshikatsu Hasegawa, Saitama (JP)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **Furukawa Automotive Systems Inc.**,
Shiga (JP)

JP 1140365 6/1989

(**) Term: **14 Years**

* cited by examiner

(21) Appl. No.: **29/388,356**

Primary Examiner — Daniel Bui

(22) Filed: **Mar. 28, 2011**

(74) *Attorney, Agent, or Firm* — Knobbe Martens Olson &
Bear LLP

(30) **Foreign Application Priority Data**

(57) **CLAIM**

Sep. 27, 2010 (JP) 2010-022986

The ornamental design for a relay connector, as shown and
described.

(51) **LOC (9) Cl.** **13-03**

DESCRIPTION

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

(58) **Field of Classification Search**
USPC D13/146, 147, 154, 184, 199; 439/180,
439/246, 247, 282, 292, 293, 345, 350, 352,
439/353, 357, 358, 374, 527, 529, 530, 533,
439/594, 596, 597, 600, 680, 686, 695, 701,
439/724

FIG. 1 is a front elevation view of a relay connector showing
our new design;
FIG. 2 is a back elevation view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a right side elevation view thereof;
FIG. 6 is a left side elevation view thereof;
FIG. 7 is a front-top-left side perspective view thereof;
FIG. 8 is a front-bottom-left side perspective view thereof;
FIG. 9 is a back-top-right side perspective view thereof;
FIG. 10 is a back-bottom right side perspective view thereof;
and,
FIG. 11 is a front-top-right side perspective view thereof in
use condition.

See application file for complete search history.

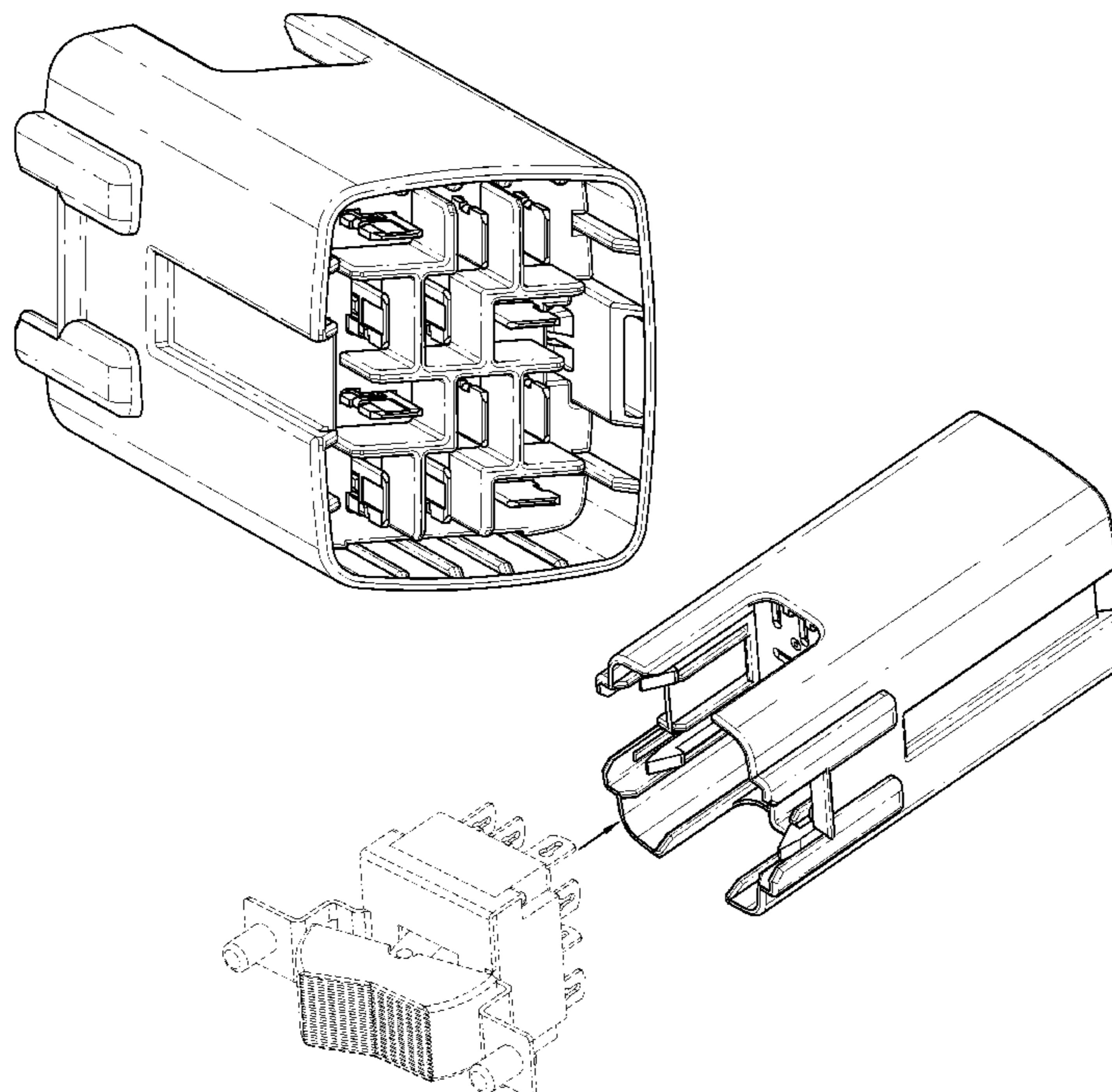
(56) **References Cited**

The broken line in the figure drawing is included for the
purpose of illustrating environment and forms no part of the
claimed design.

U.S. PATENT DOCUMENTS

D319,428 S * 8/1991 Nagasaka et al. D13/147
D323,139 S * 1/1992 Inaba et al. D13/133
D333,653 S * 3/1993 Yamanashi D13/147
D560,613 S * 1/2008 McEvoy et al. D13/147
D560,614 S * 1/2008 McEvoy et al. D13/147

1 Claim, 9 Drawing Sheets



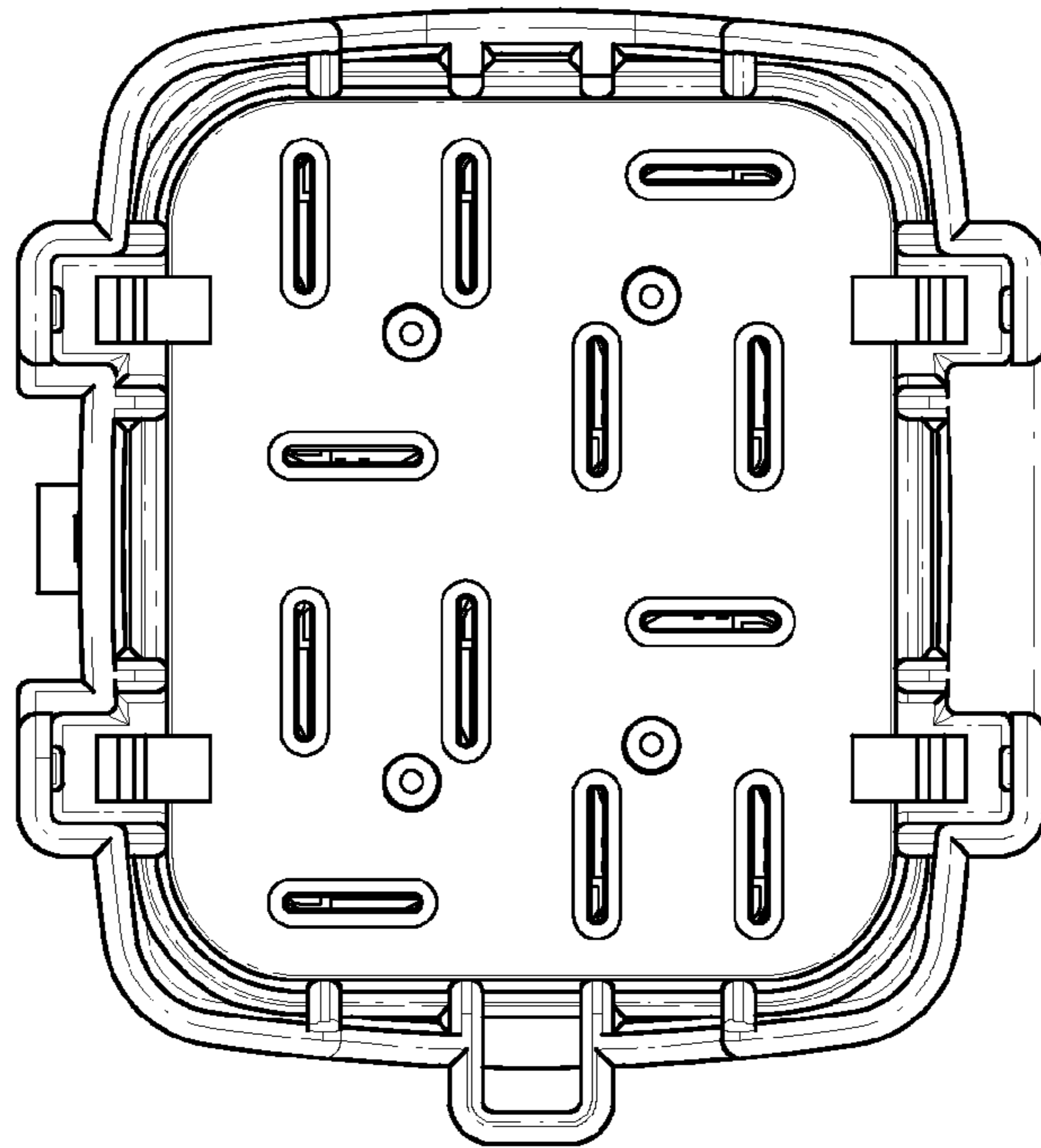


FIG. 1

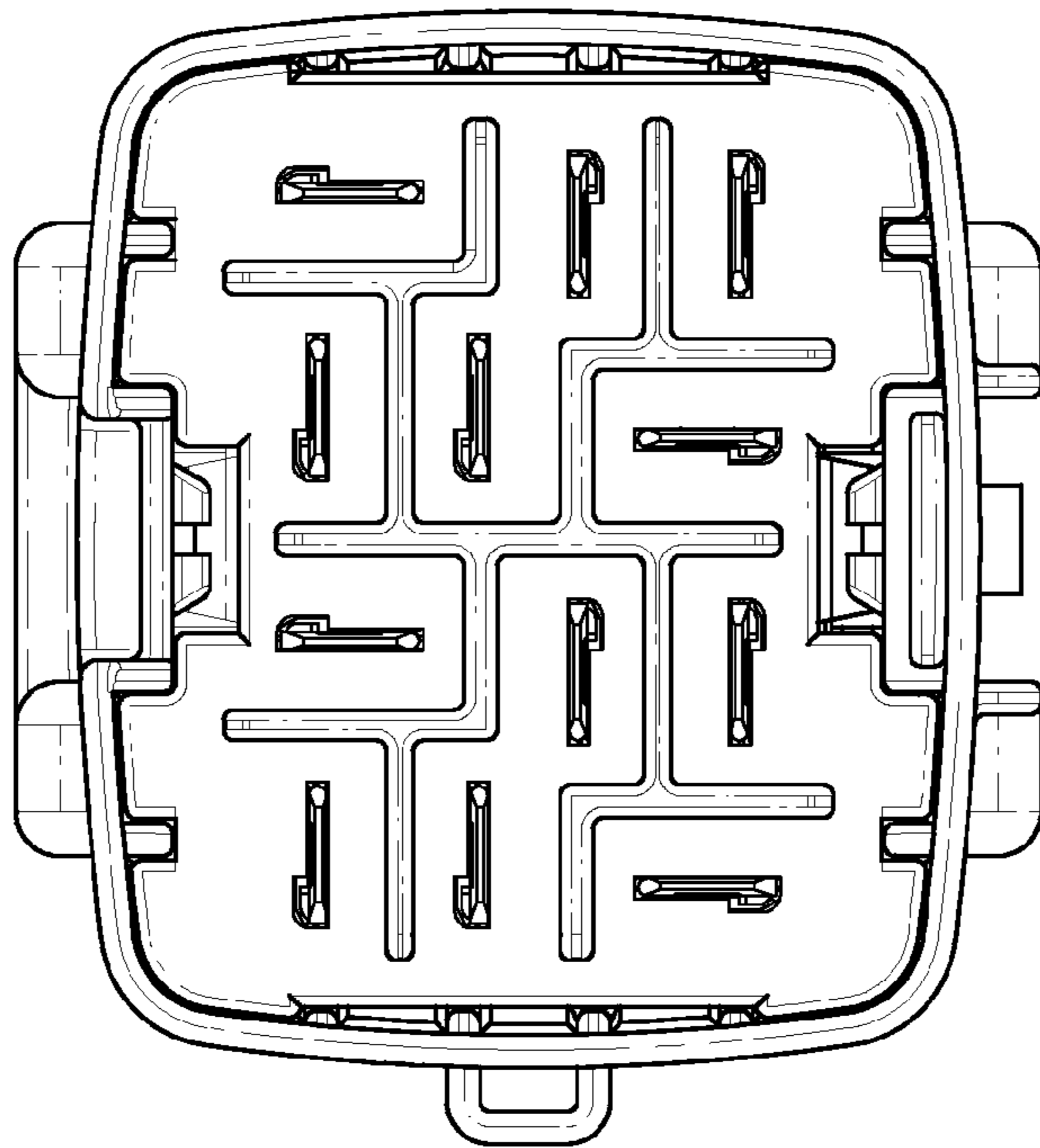


FIG. 2

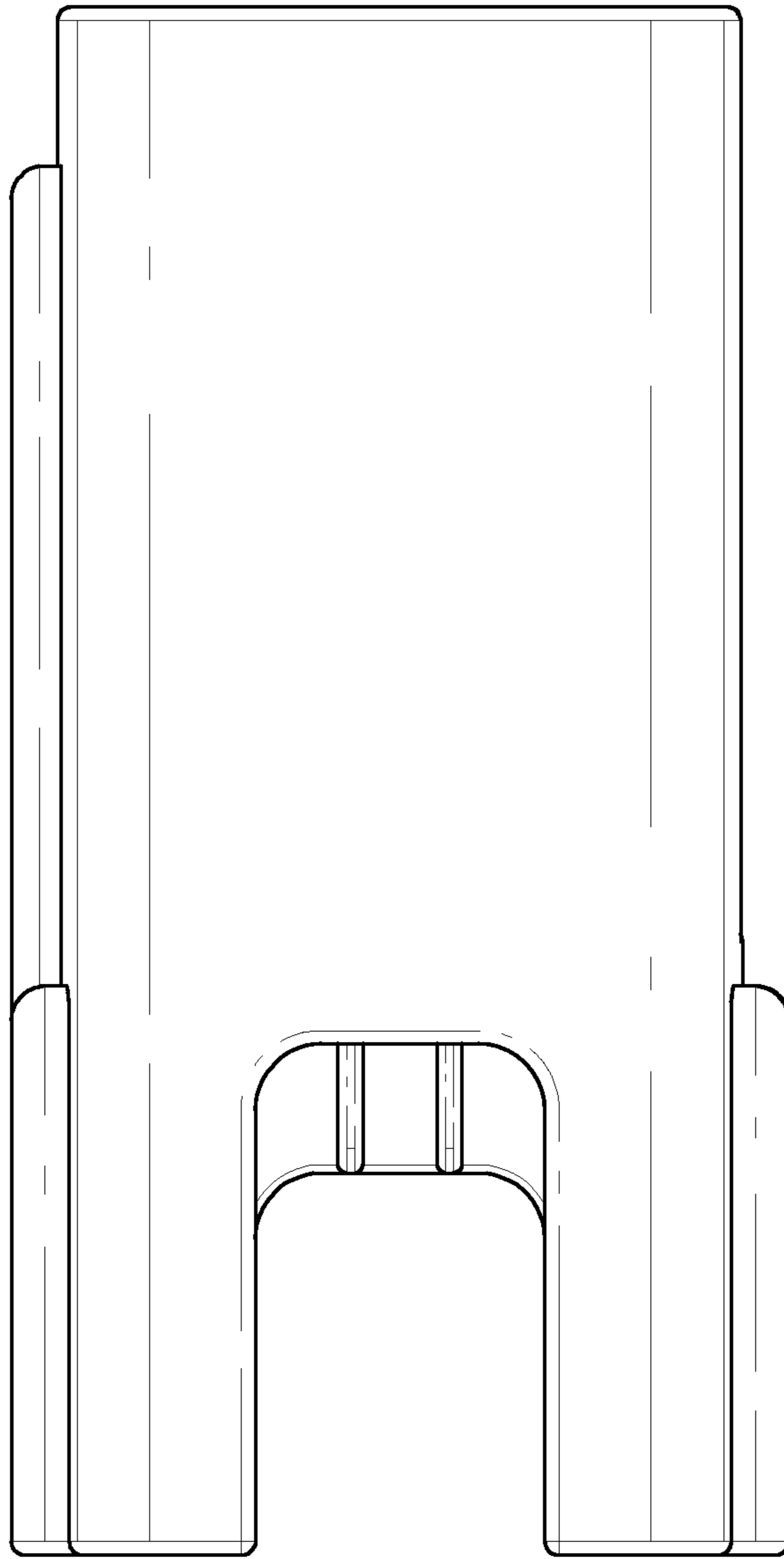


FIG. 3

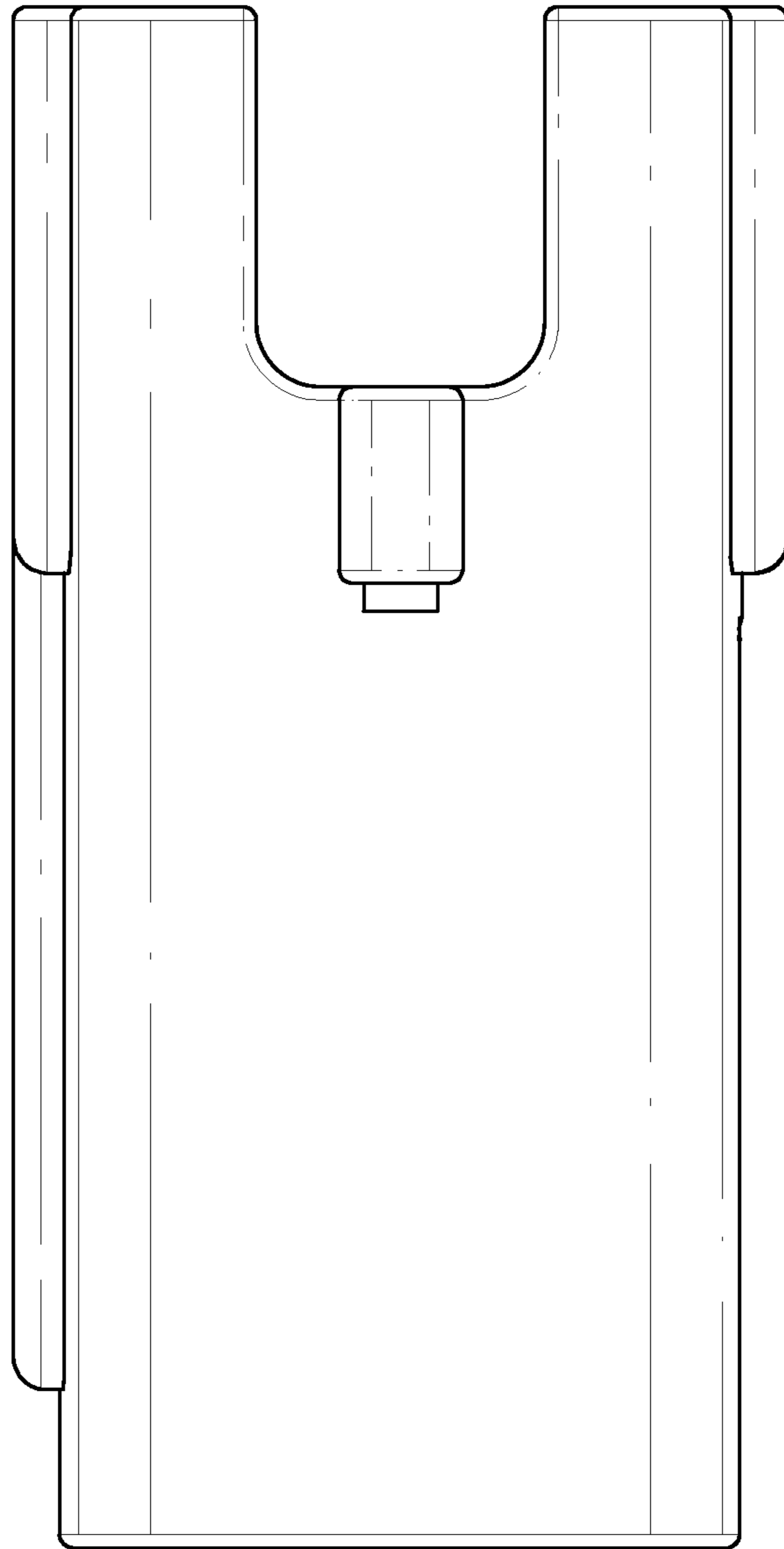


FIG. 4

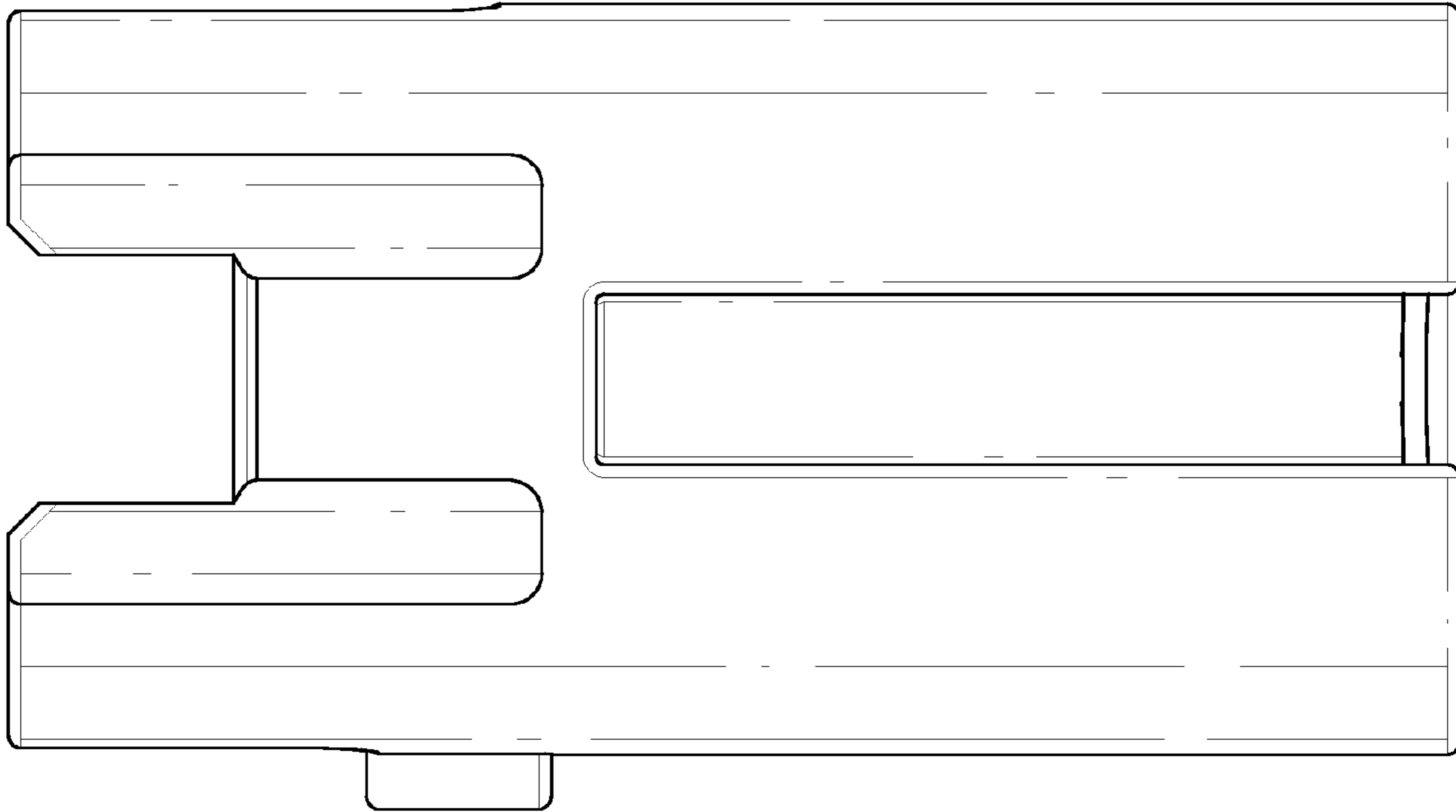


FIG. 5

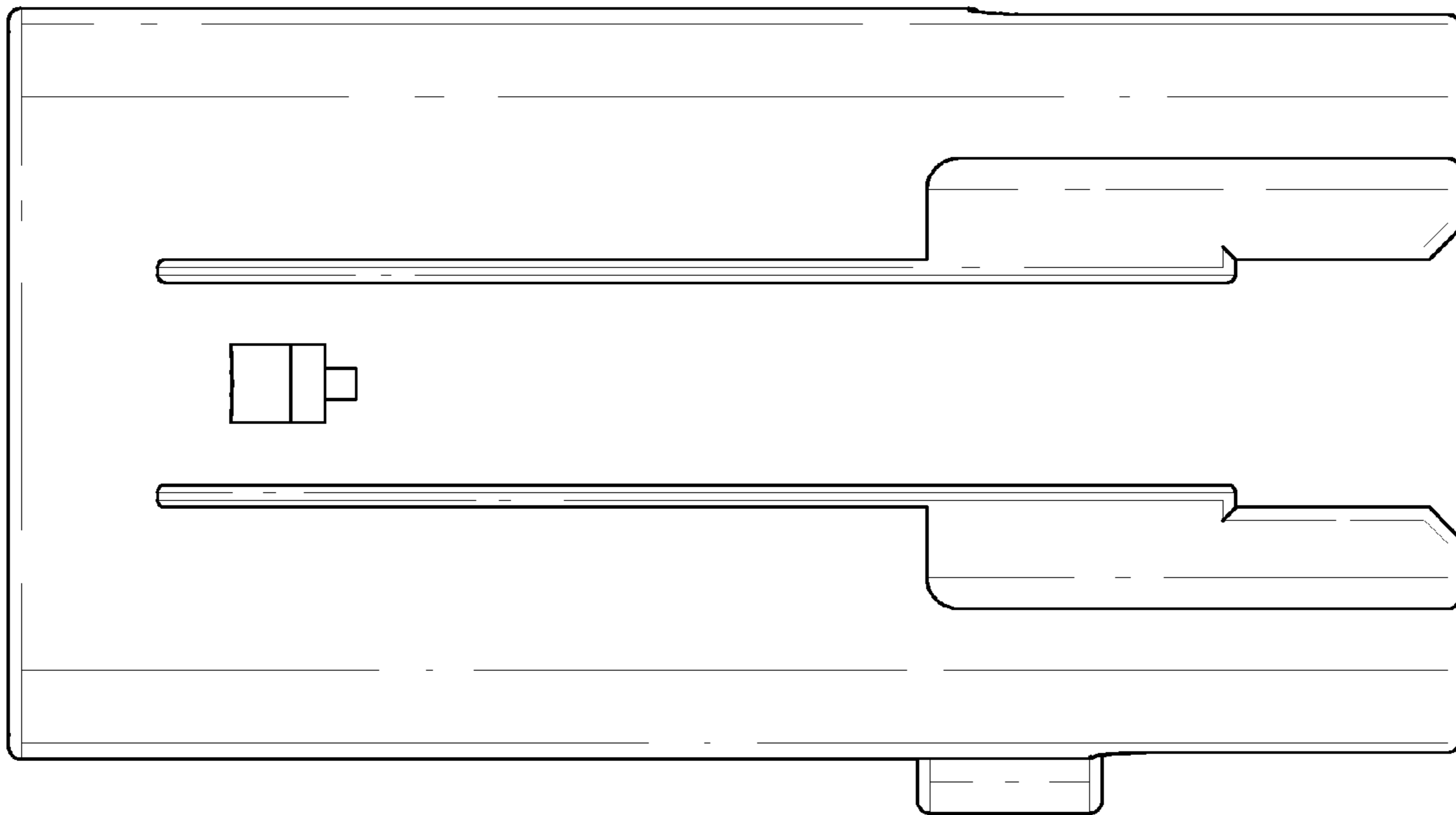


FIG. 6

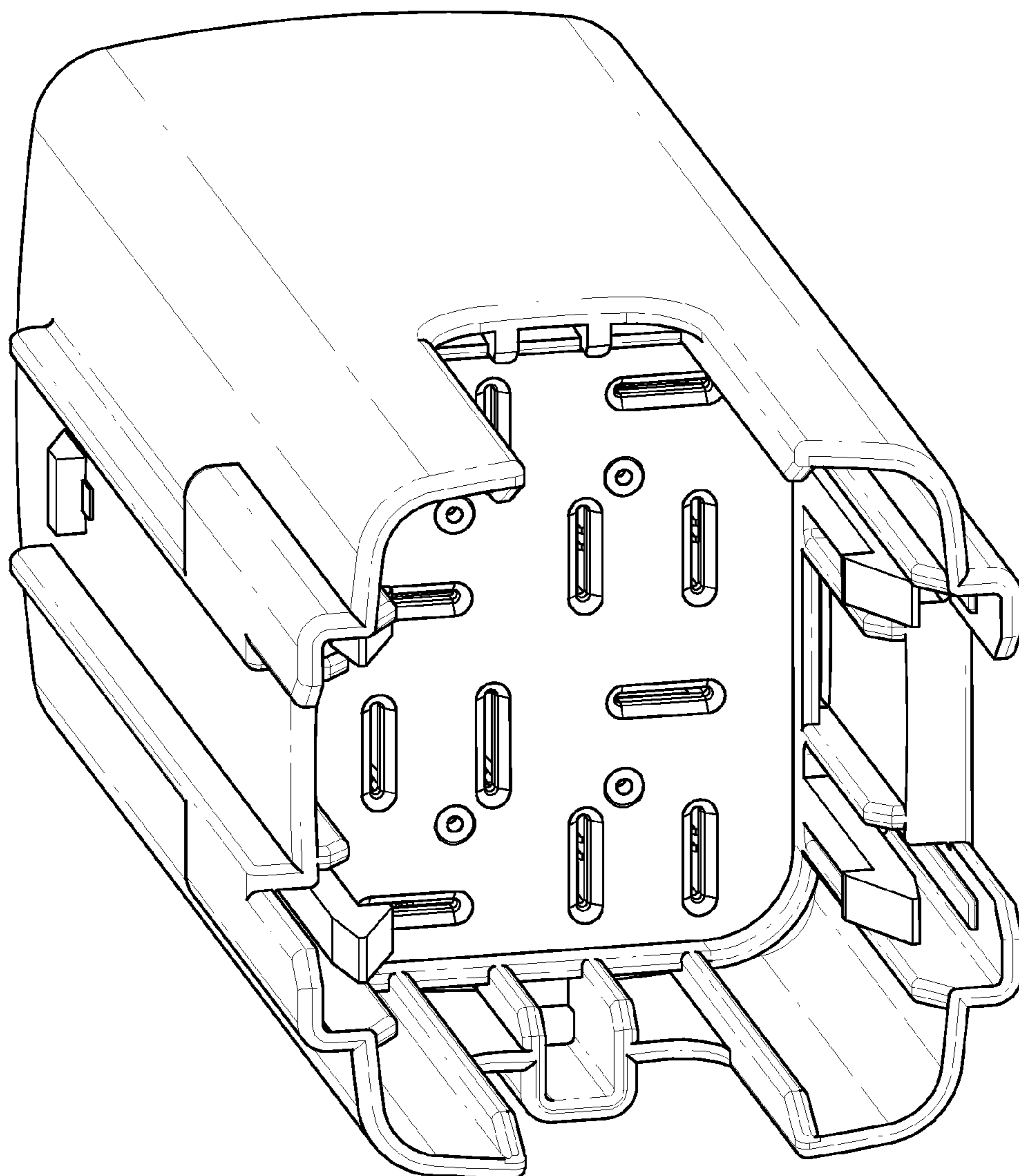


FIG. 7

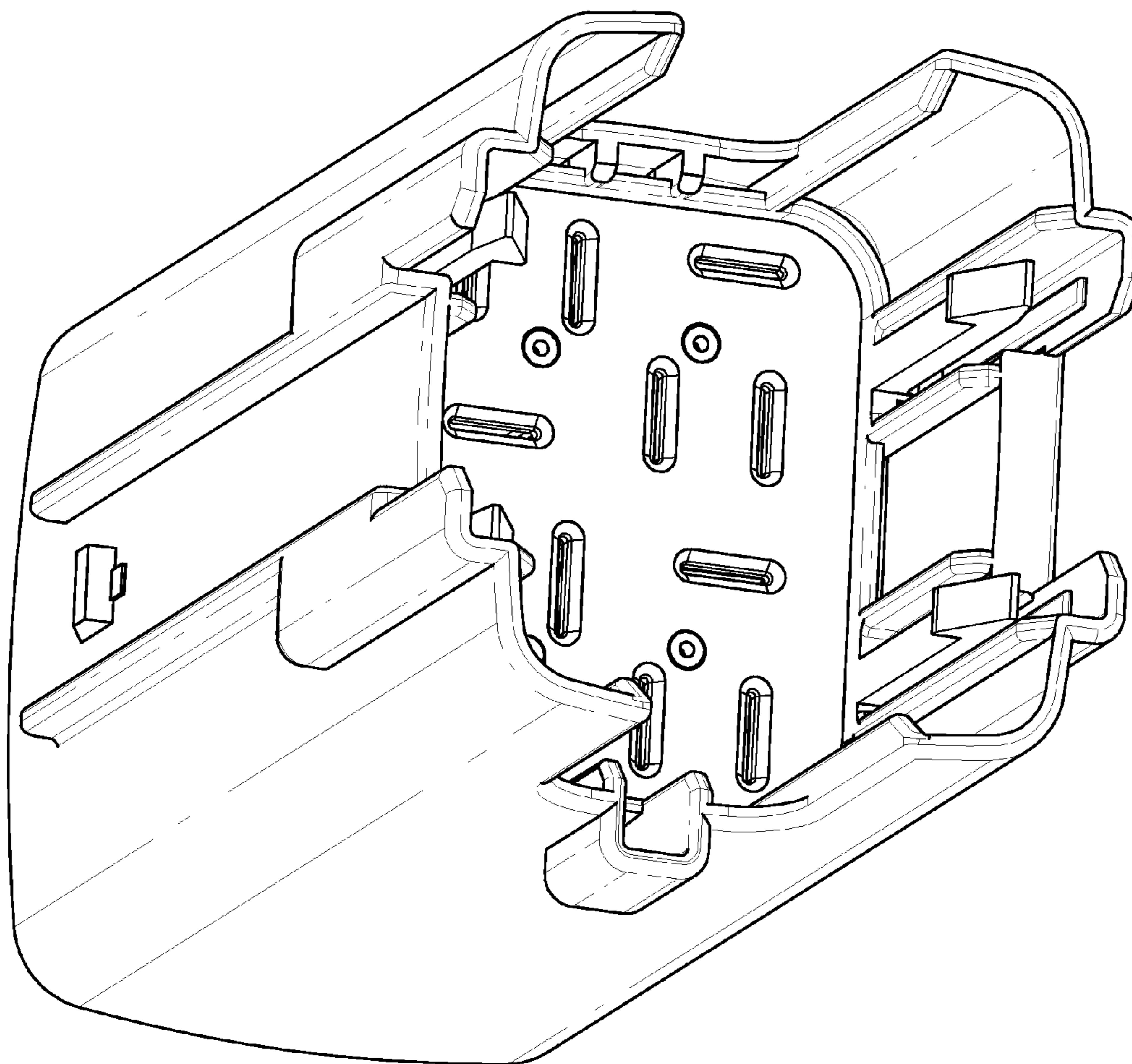


FIG. 8

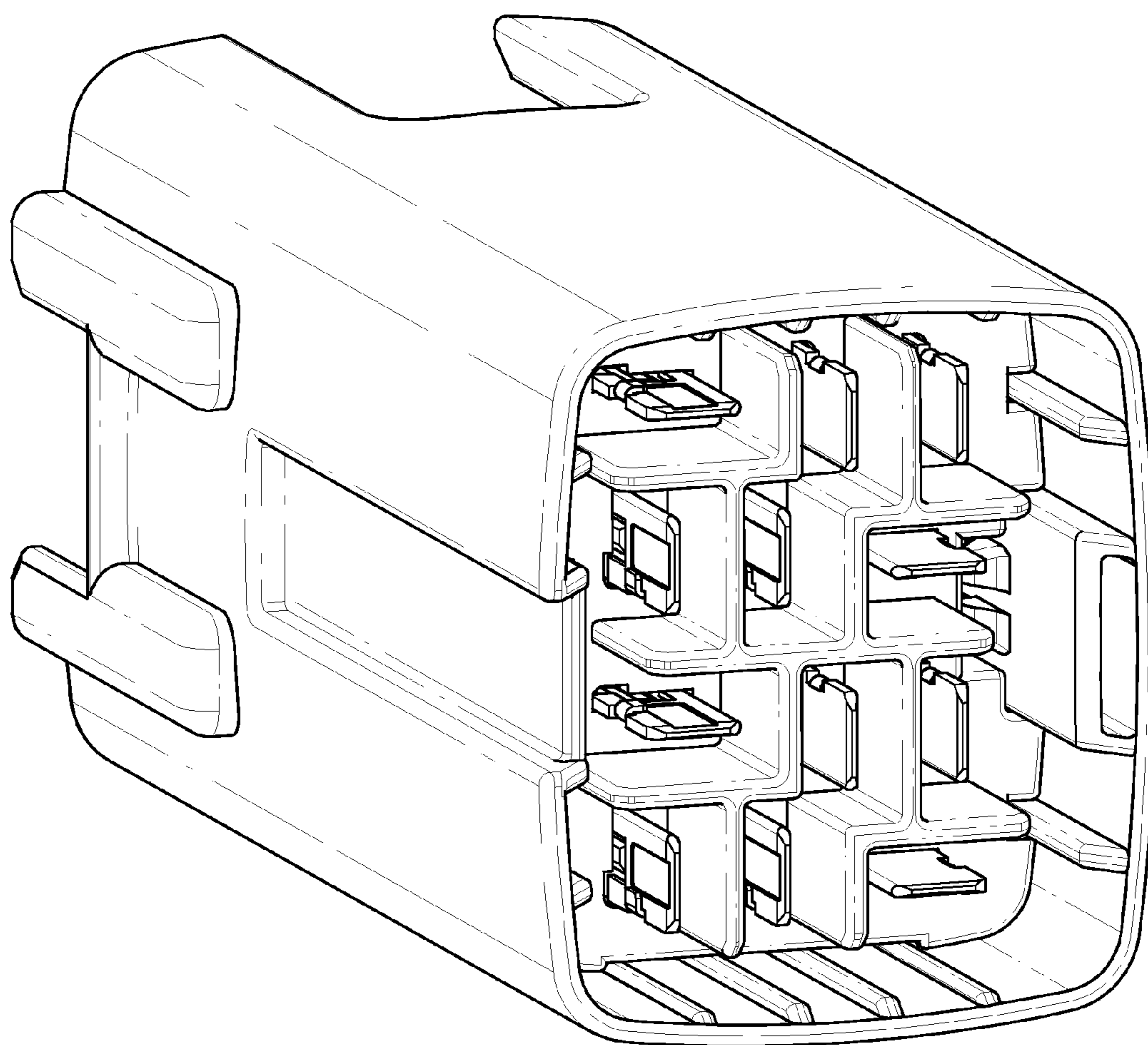


FIG. 9

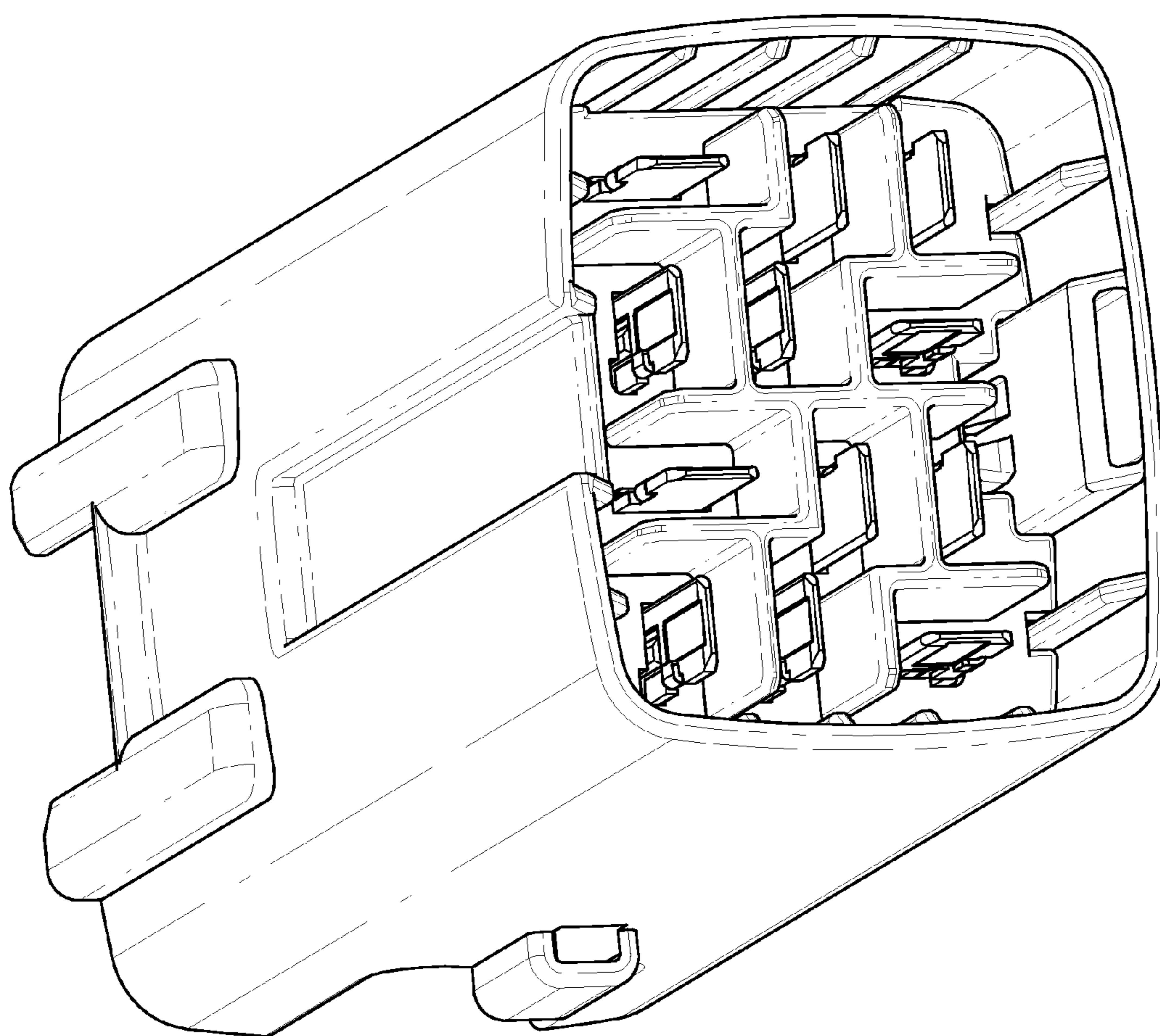


FIG. 10

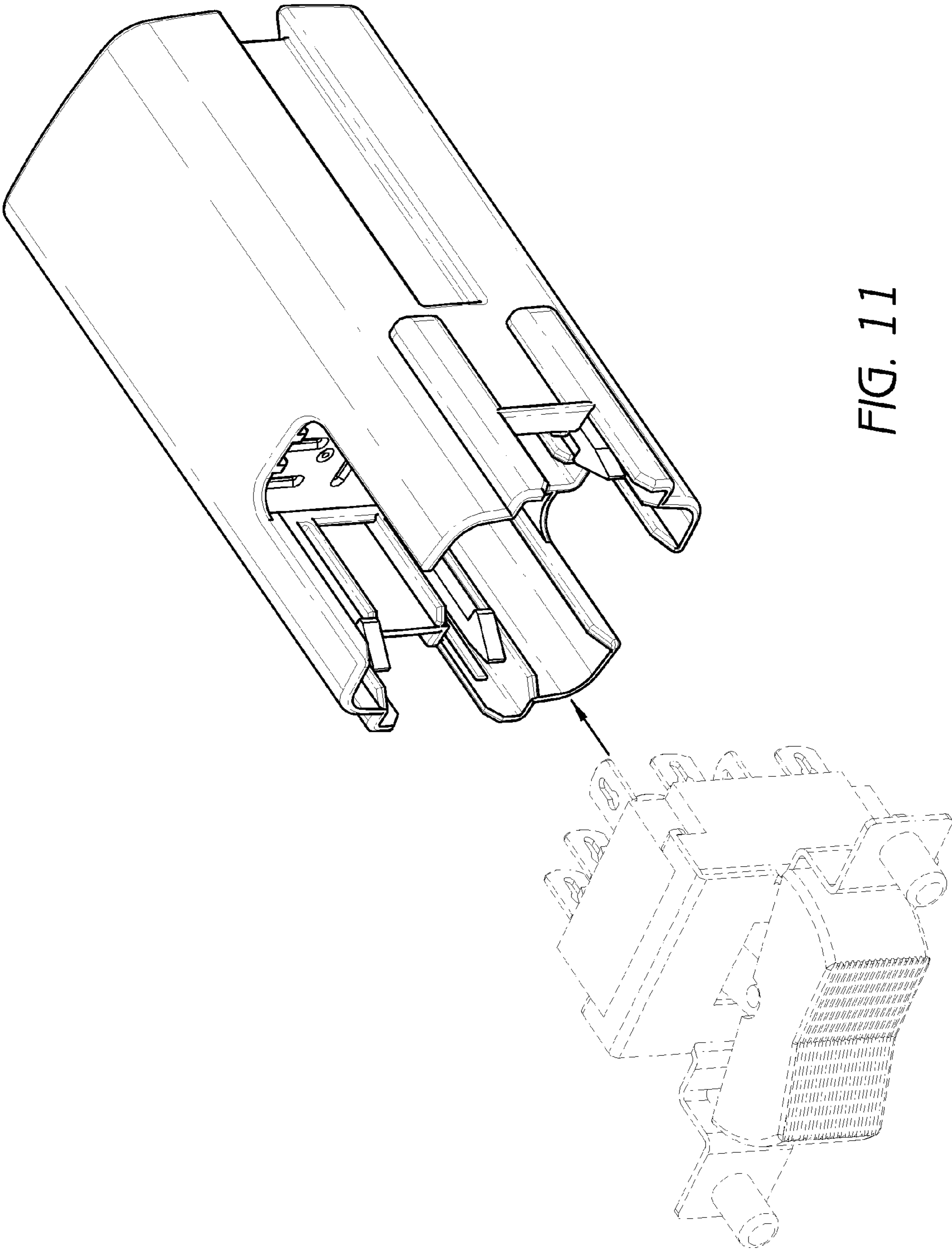


FIG. 11