



US00D986178S

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

(10) **Patent No.:** **US D986,178 S**  
(45) **Date of Patent:** **\*\* May 16, 2023**

(54) **CONNECTOR**

(71) Applicant: **Japan Aviation Electronics Industry, Limited**, Tokyo (JP)  
(72) Inventors: **Yukuya Morishita**, Tokyo (JP); **Yusuke Obata**, Tokyo (JP)  
(73) Assignee: **JAPAN AVIATION ELECTRONICS INDUSTRY, LIMITED**, Tokyo (JP)

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

(21) Appl. No.: **29/796,884**

(22) Filed: **Jun. 28, 2021**

(30) **Foreign Application Priority Data**

Mar. 29, 2021 (JP) ..... 2021-006502 D

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

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

(58) **Field of Classification Search**  
USPC ... D13/133, 101, 123, 146, 147, 153, 137.1, D13/149

CPC .... G02B 6/38; G02B 6/38875; G02B 6/4284; H01R 13/40; H01R 13/58; H01R 13/627; H01R 13/66; H01R 31/06; H01R 24/00  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D314,756 S \* 2/1991 Endo ..... D13/147  
D315,544 S \* 3/1991 Okada ..... D13/146  
D324,203 S \* 2/1992 Inaba ..... D13/147  
D325,372 S \* 4/1992 Taguchi ..... D13/147  
5,224,876 A \* 7/1993 Ito ..... H01R 13/4367  
439/877  
D488,782 S \* 4/2004 Kashiyama ..... D13/133

D547,269 S \* 7/2007 Sugita ..... D13/133  
D564,452 S \* 3/2008 Kudo ..... D13/147  
D671,500 S \* 11/2012 Kettern ..... D13/149  
D870,673 S \* 12/2019 Obata ..... D13/147  
D894,836 S \* 9/2020 Obata ..... D13/133  
D911,976 S \* 3/2021 Obata ..... D13/147  
D913,952 S \* 3/2021 Obata ..... D13/147  
D921,591 S \* 6/2021 Obata ..... D13/147  
D928,097 S \* 8/2021 Obata ..... D13/147  
D928,098 S \* 8/2021 Obata ..... D13/147  
D928,099 S \* 8/2021 Obata ..... D13/147  
D934,176 S \* 10/2021 Obata ..... D13/133  
D945,375 S \* 3/2022 Obata ..... D13/149

(Continued)

*Primary Examiner* — Christy Nemeth

*Assistant Examiner* — Leah E Hoferkamp

(74) *Attorney, Agent, or Firm* — Manabu Kanesaka

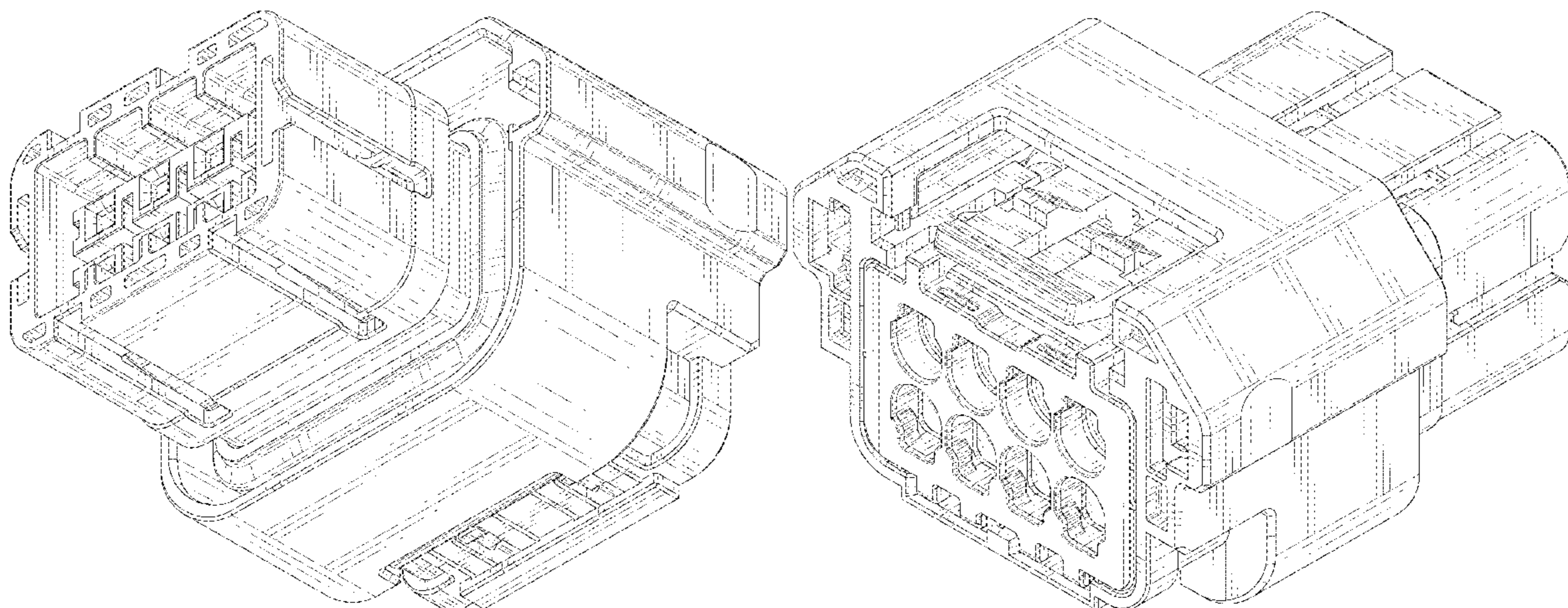
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a front elevational view of a connector showing our new design;  
FIG. 2 is a rear elevational view thereof;  
FIG. 3 is a right side elevational view thereof;  
FIG. 4 is a left side elevational view thereof;  
FIG. 5 is a top plan view thereof;  
FIG. 6 is a bottom plan view thereof;  
FIG. 7 is a front, top, and right side perspective view thereof;  
FIG. 8 is a rear, bottom, and left side perspective view thereof;  
FIG. 9 is a front, right, and bottom side perspective view thereof; and,  
FIG. 10 is a rear, left, and top side perspective view thereof.  
The broken line showing of the connector is for the purpose of illustrating portions of the article and forms no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D959,381 S \* 8/2022 Yamamoto ..... D13/133  
D967,771 S \* 10/2022 Morishita ..... D13/149  
D970,453 S \* 11/2022 Yamamoto ..... D13/133  
2009/0186523 A1\* 7/2009 Campbell ..... H01R 13/4365  
29/428

\* cited by examiner

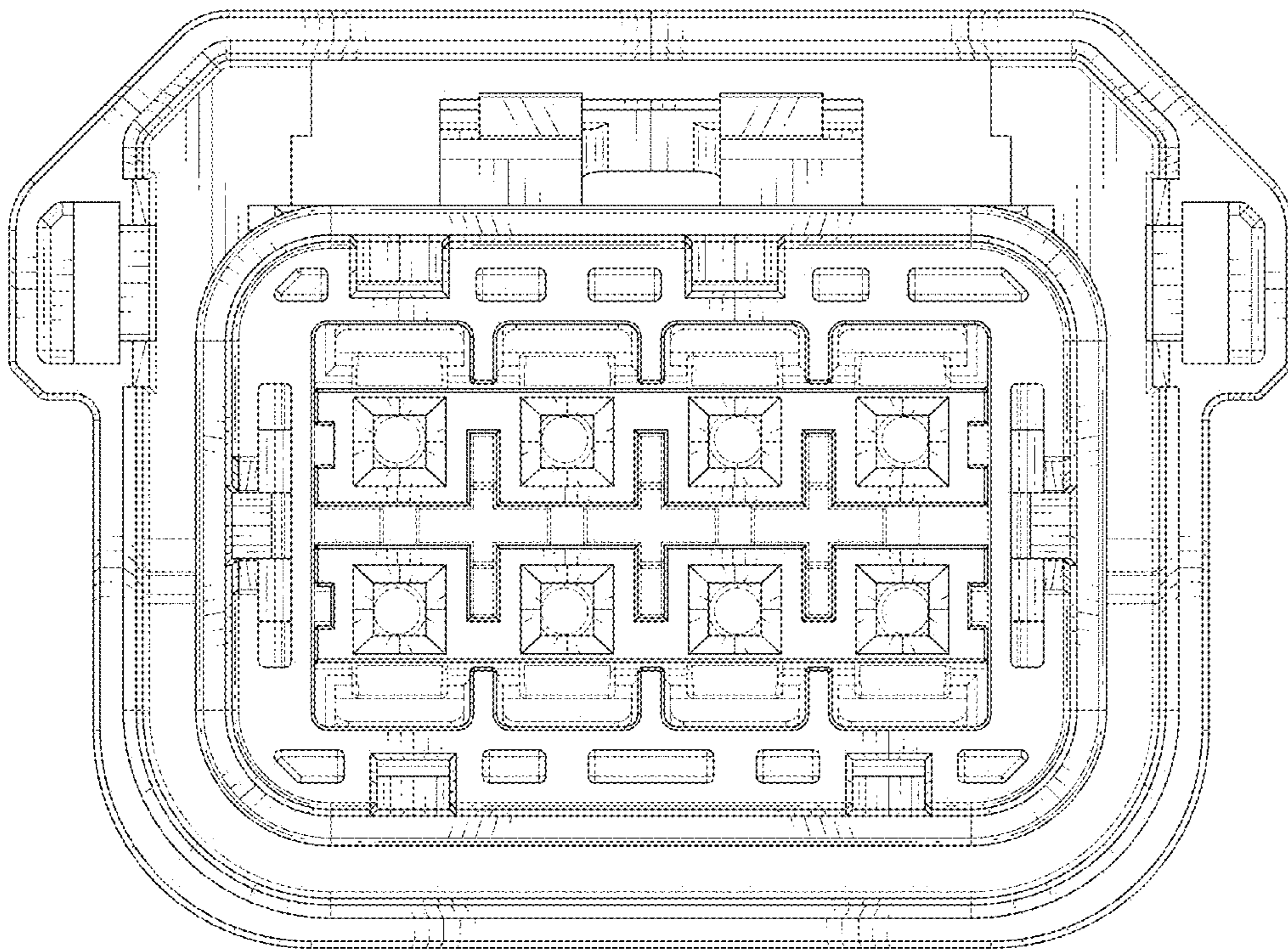


FIG. 1

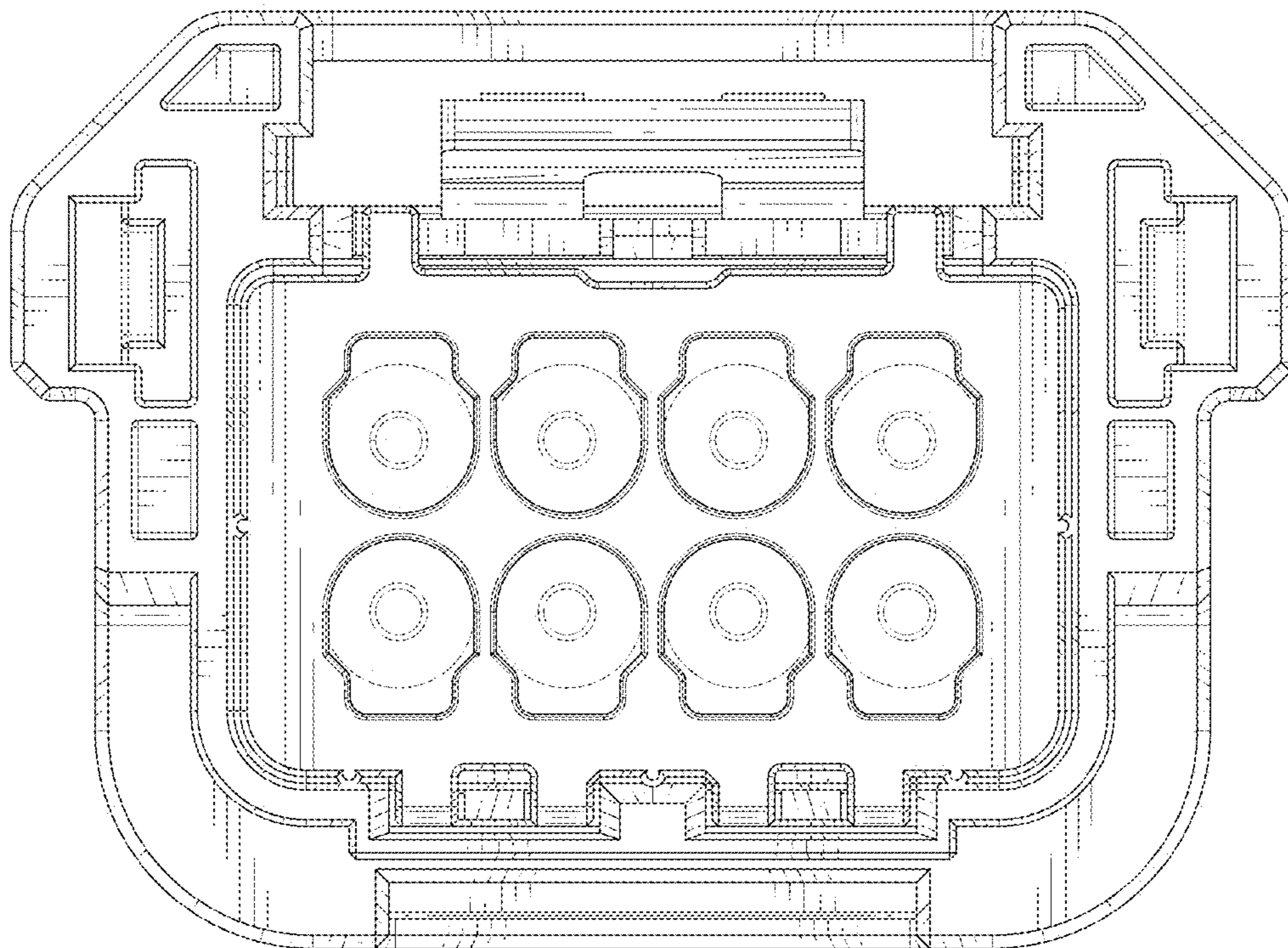


FIG. 2

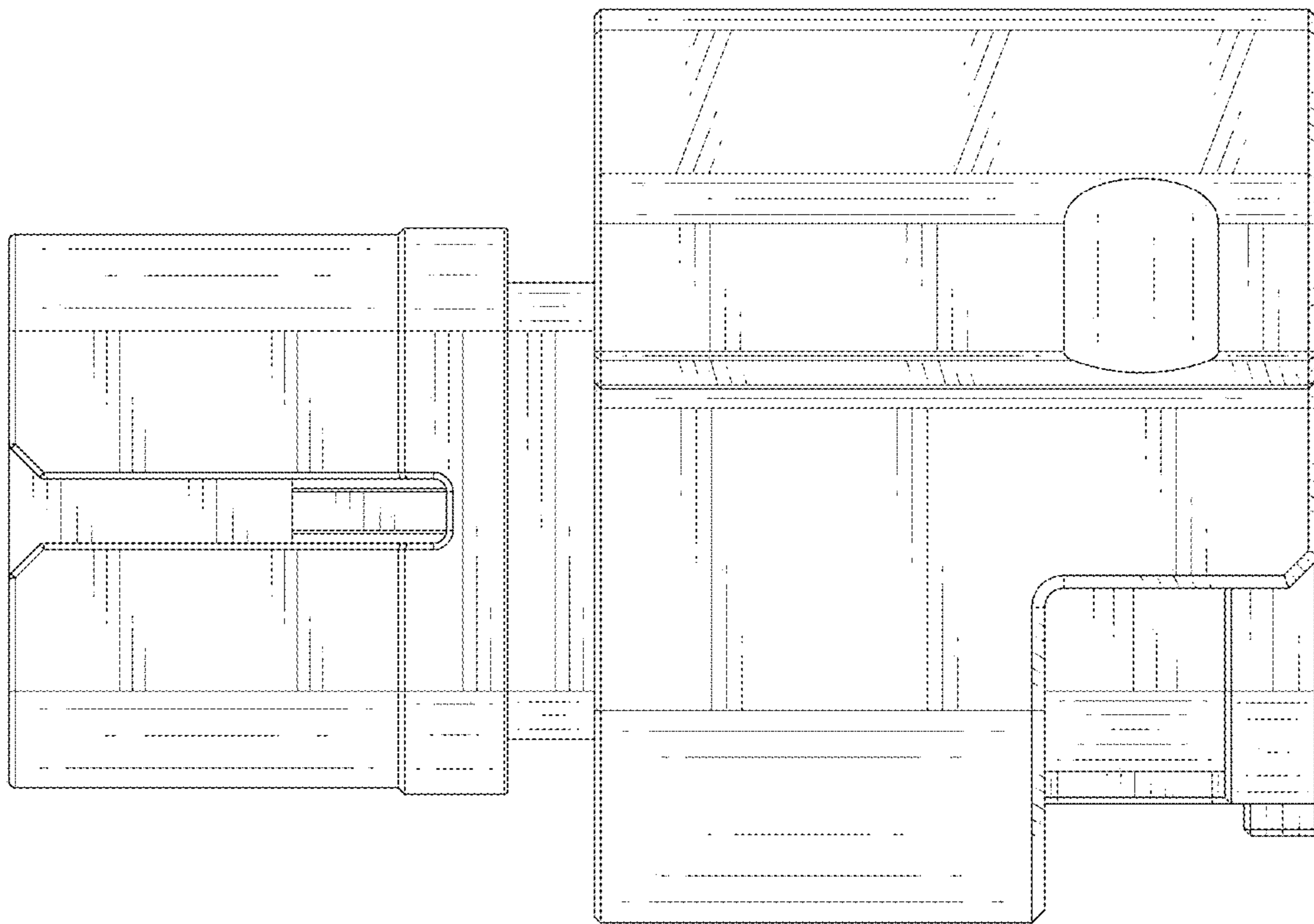


FIG. 3

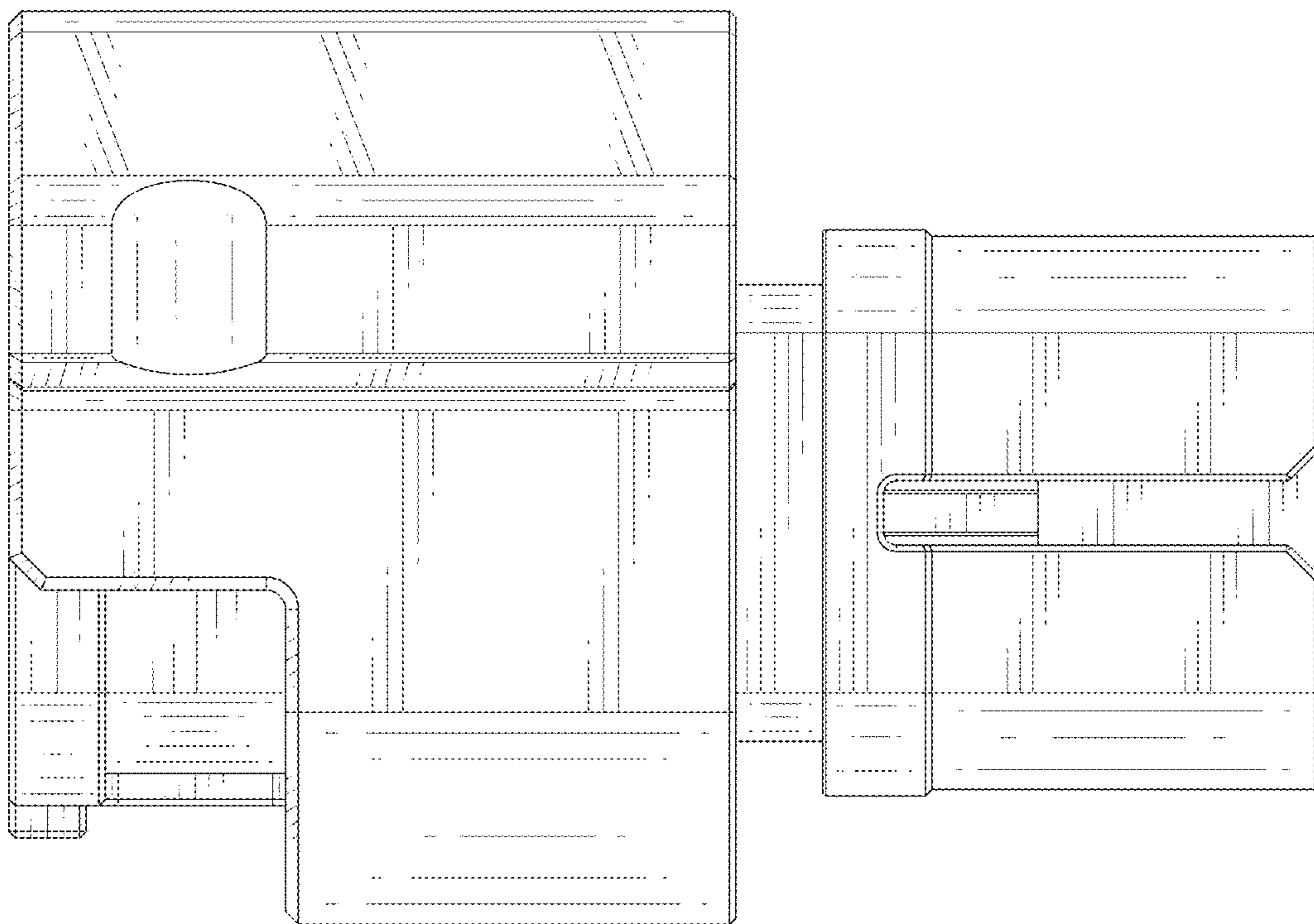


FIG. 4

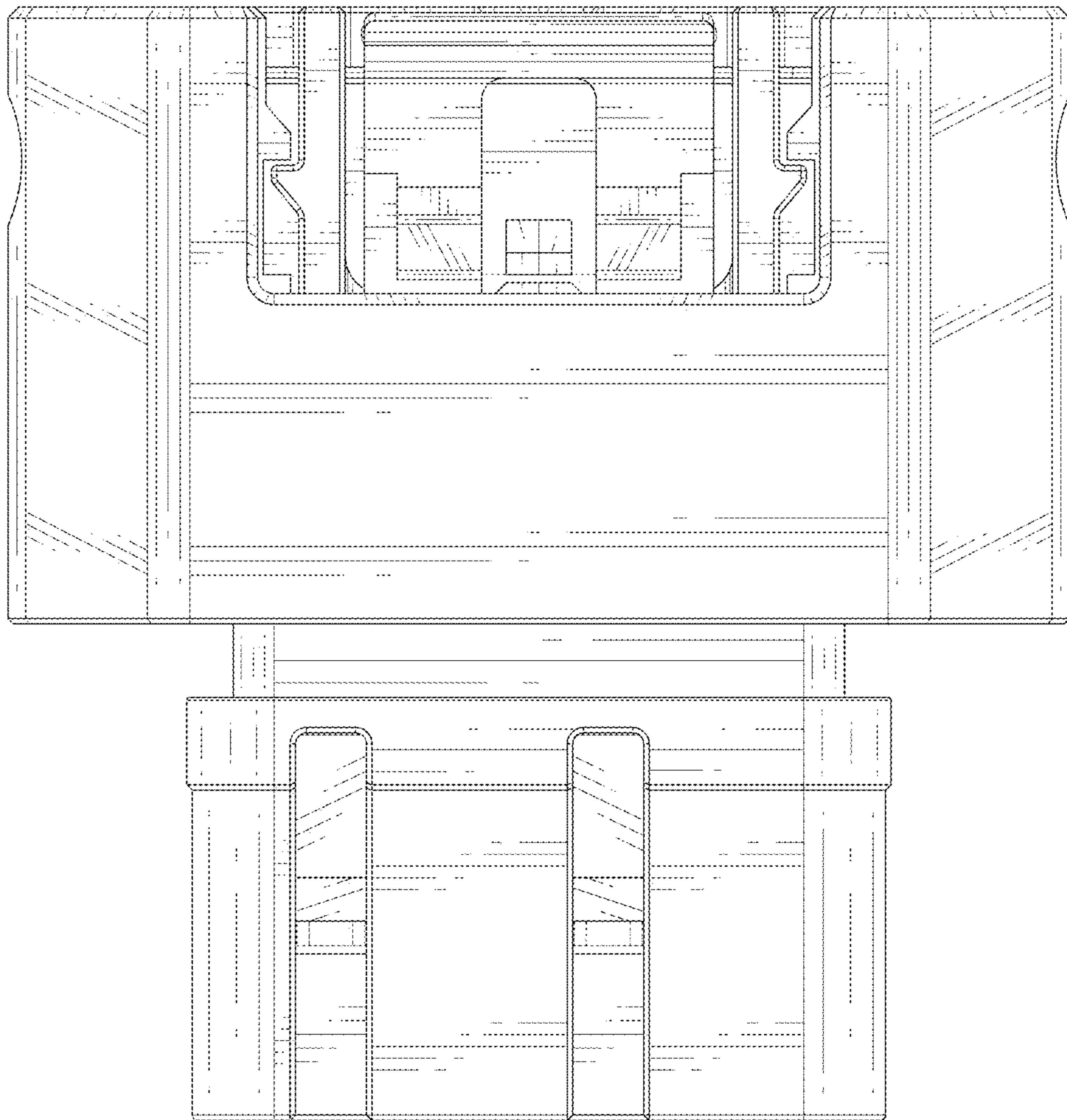


FIG. 5

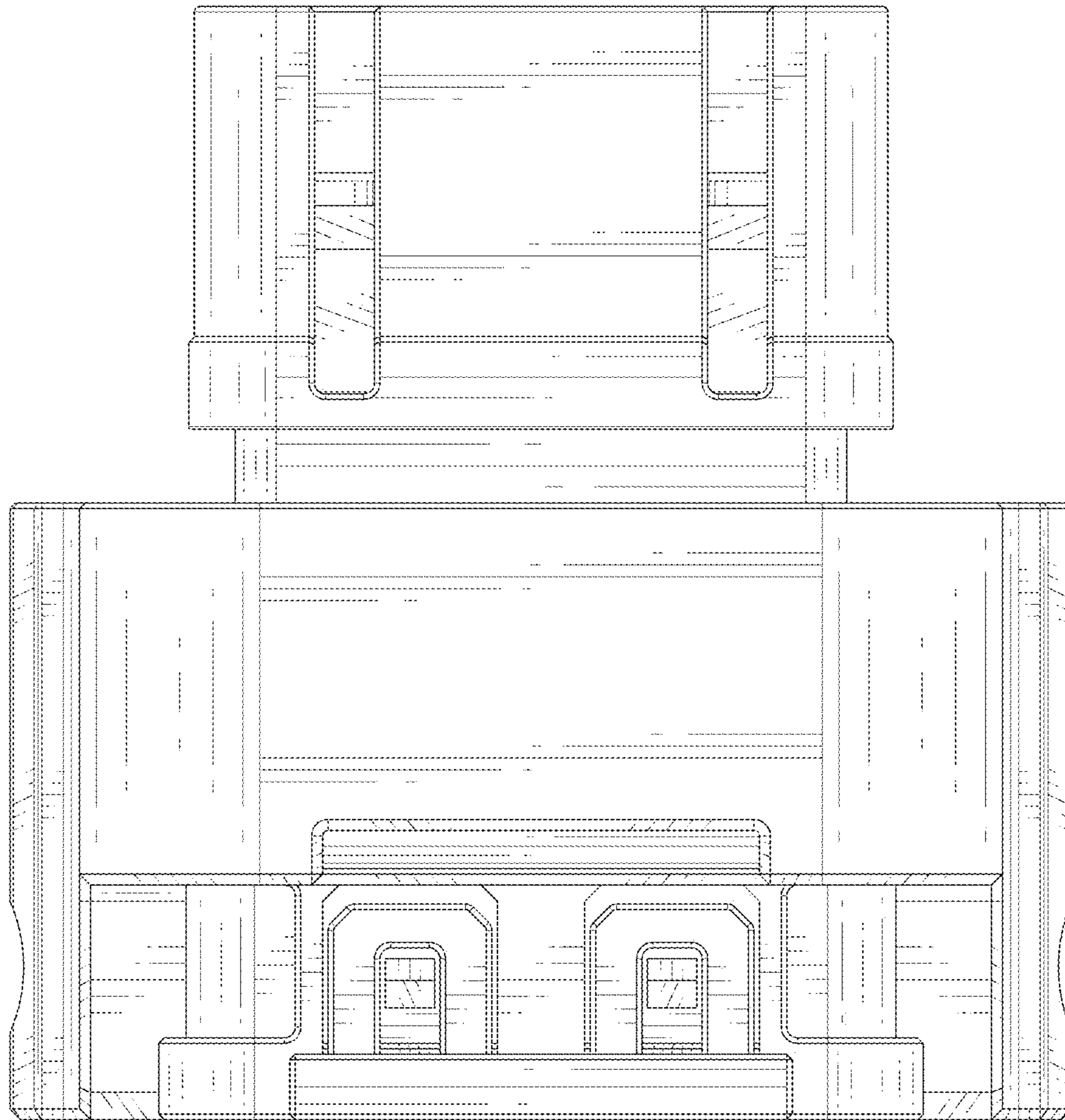


FIG. 6

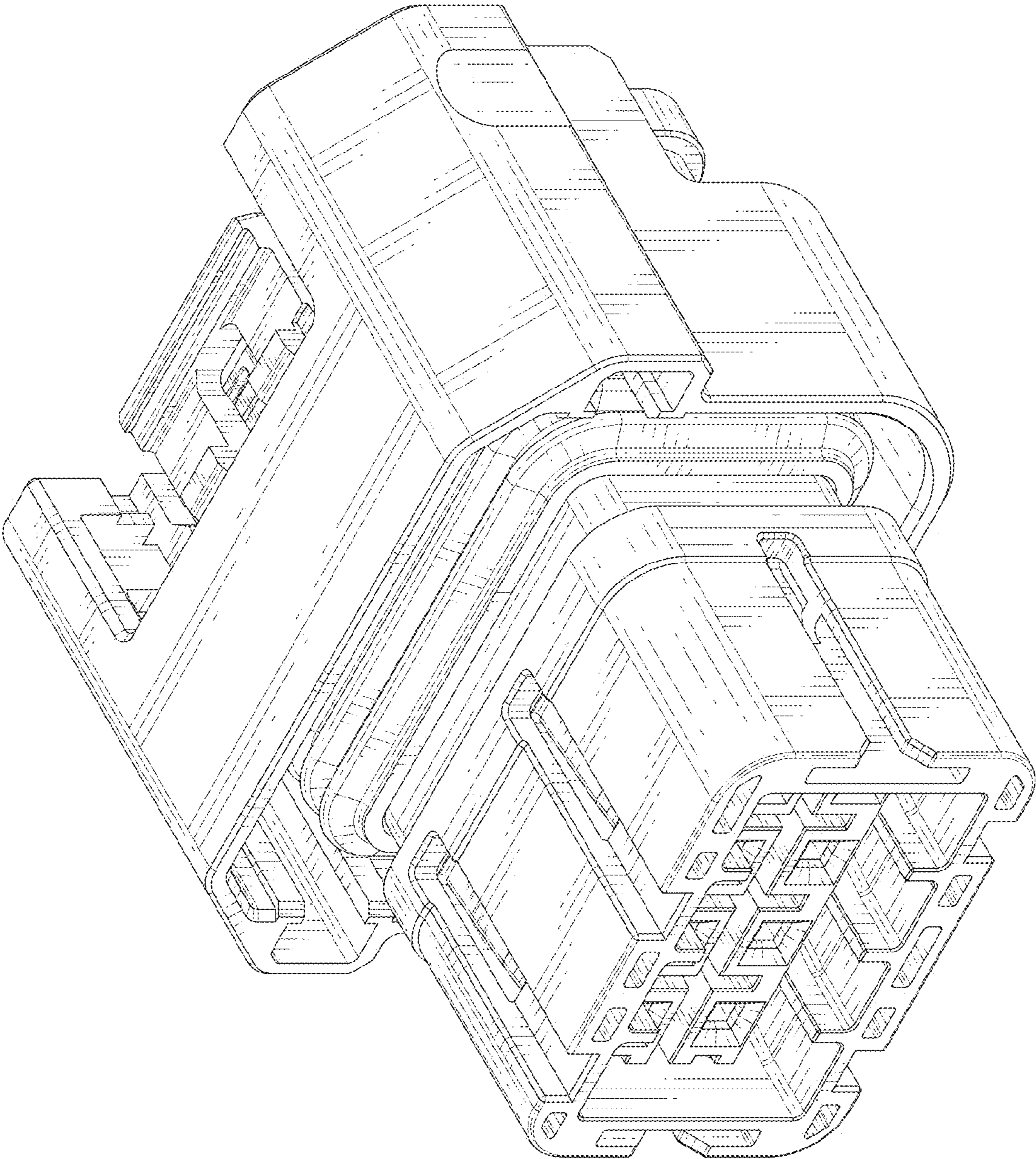


FIG. 7

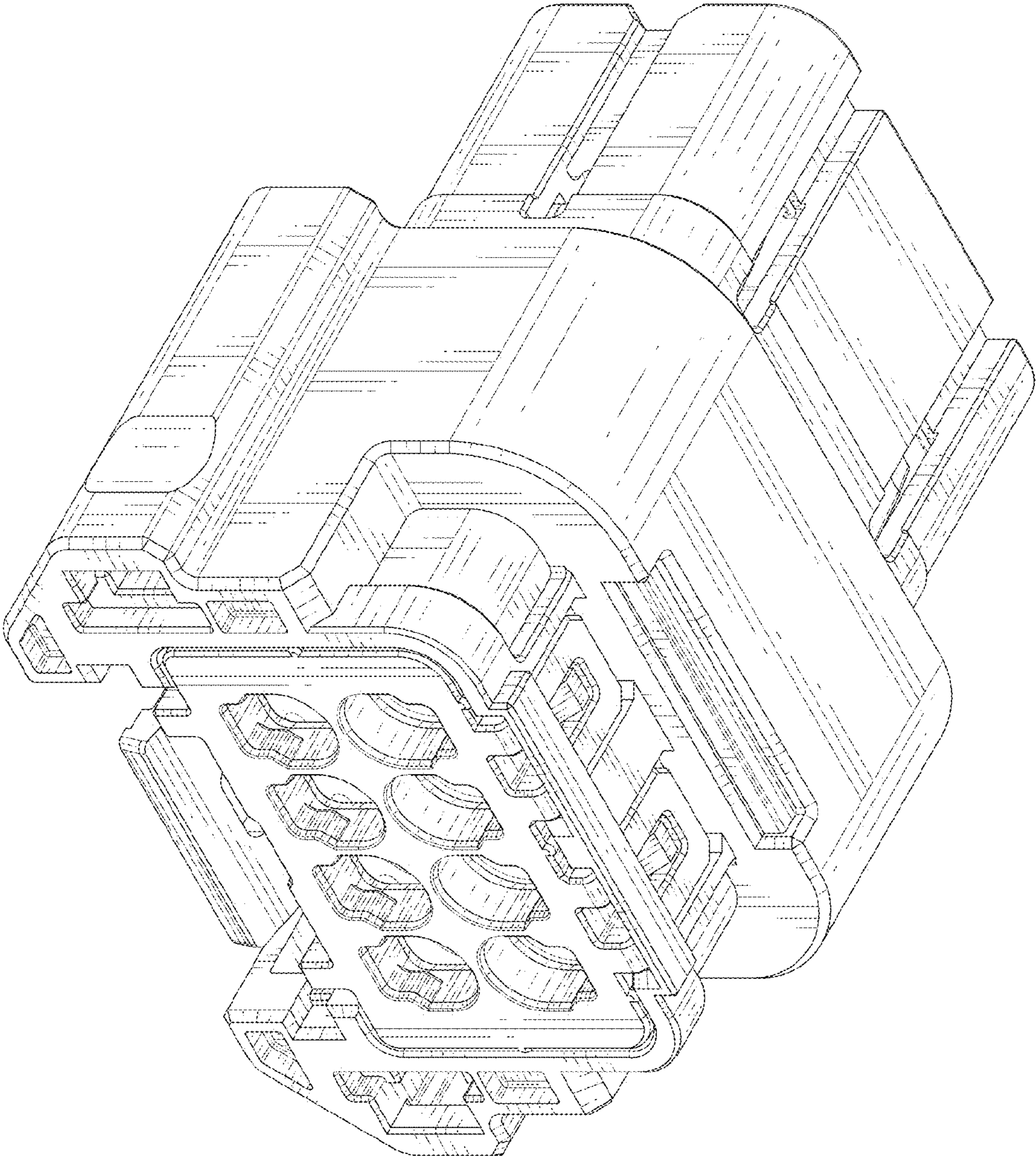


FIG. 8



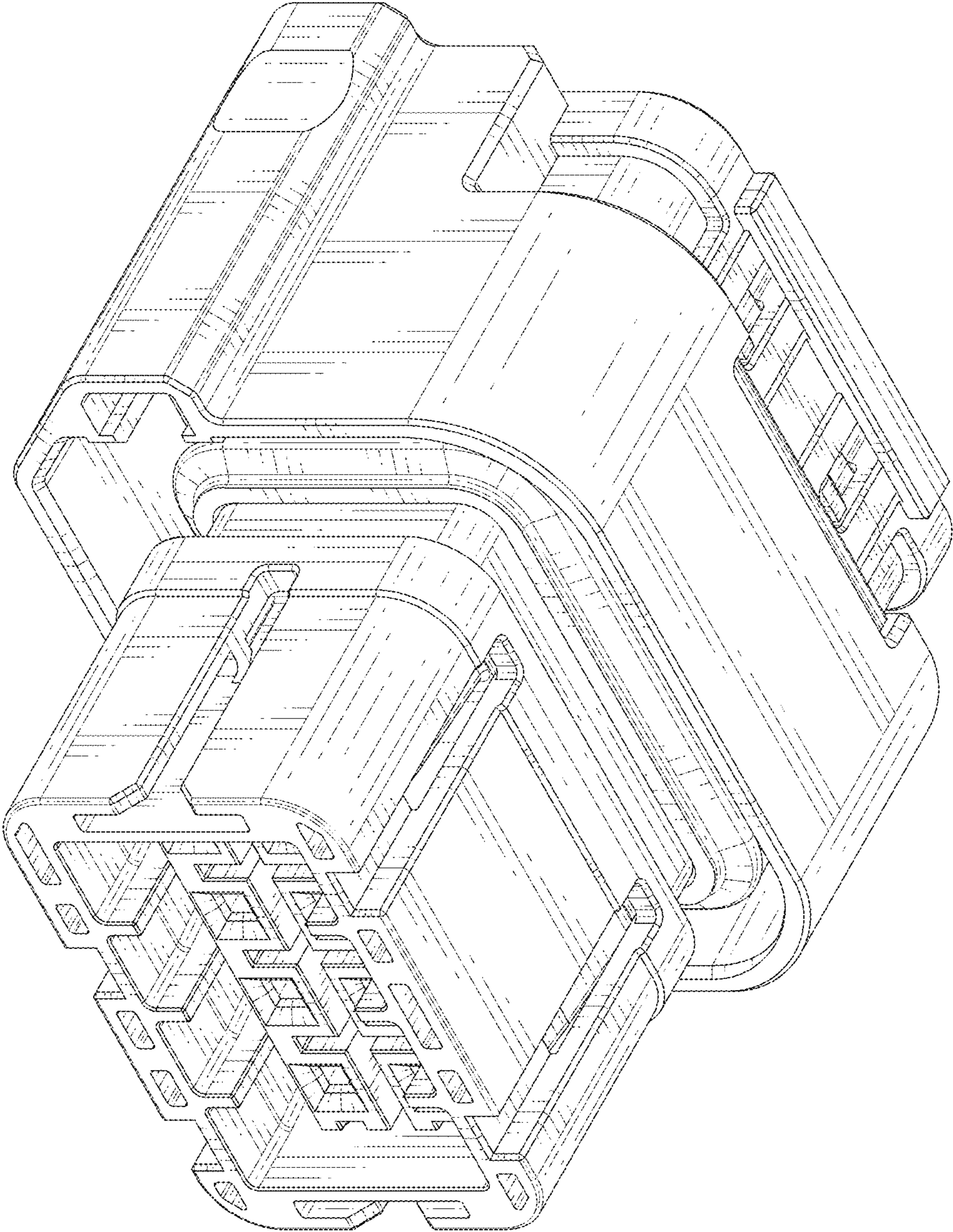


FIG. 9

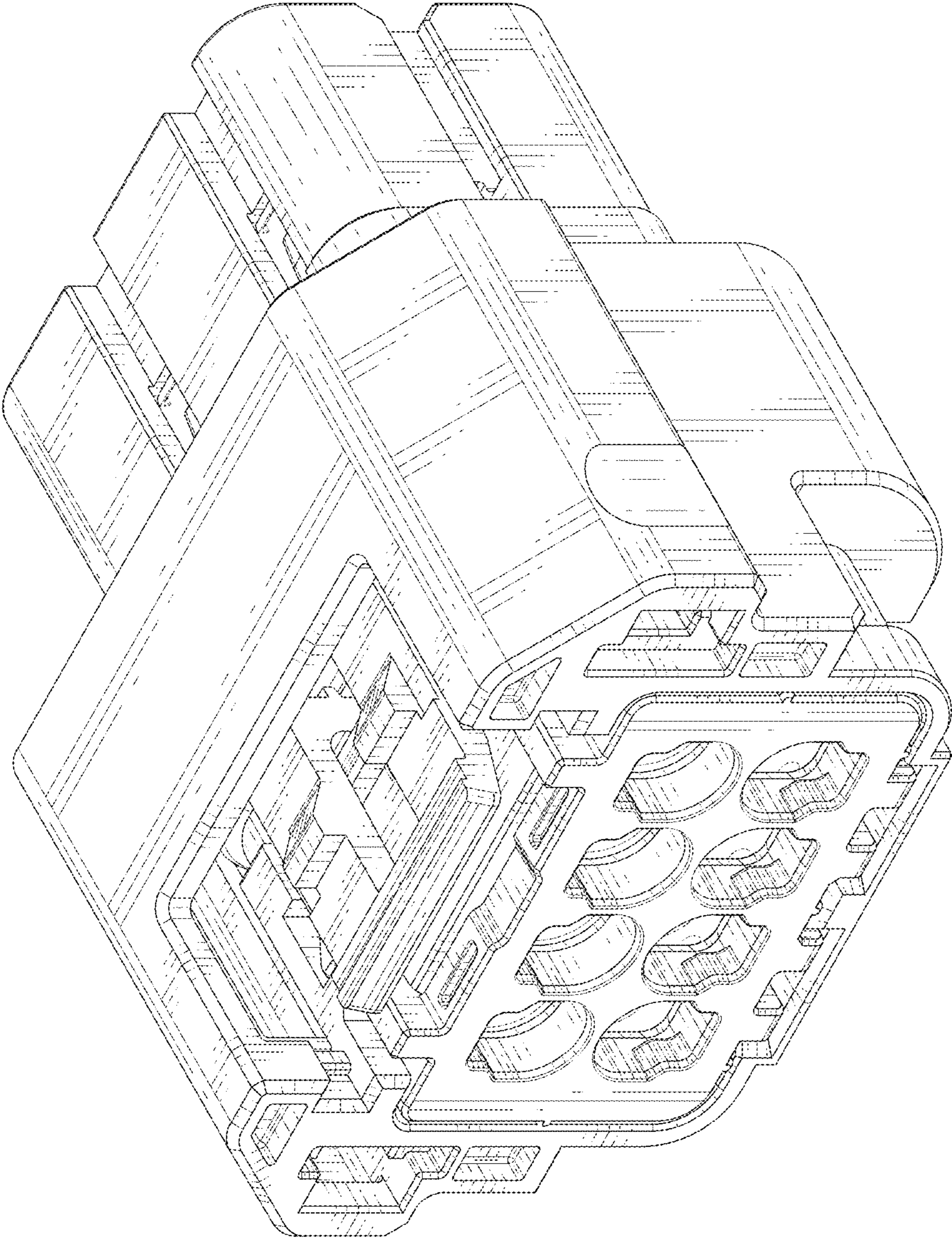


FIG. 10