



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;

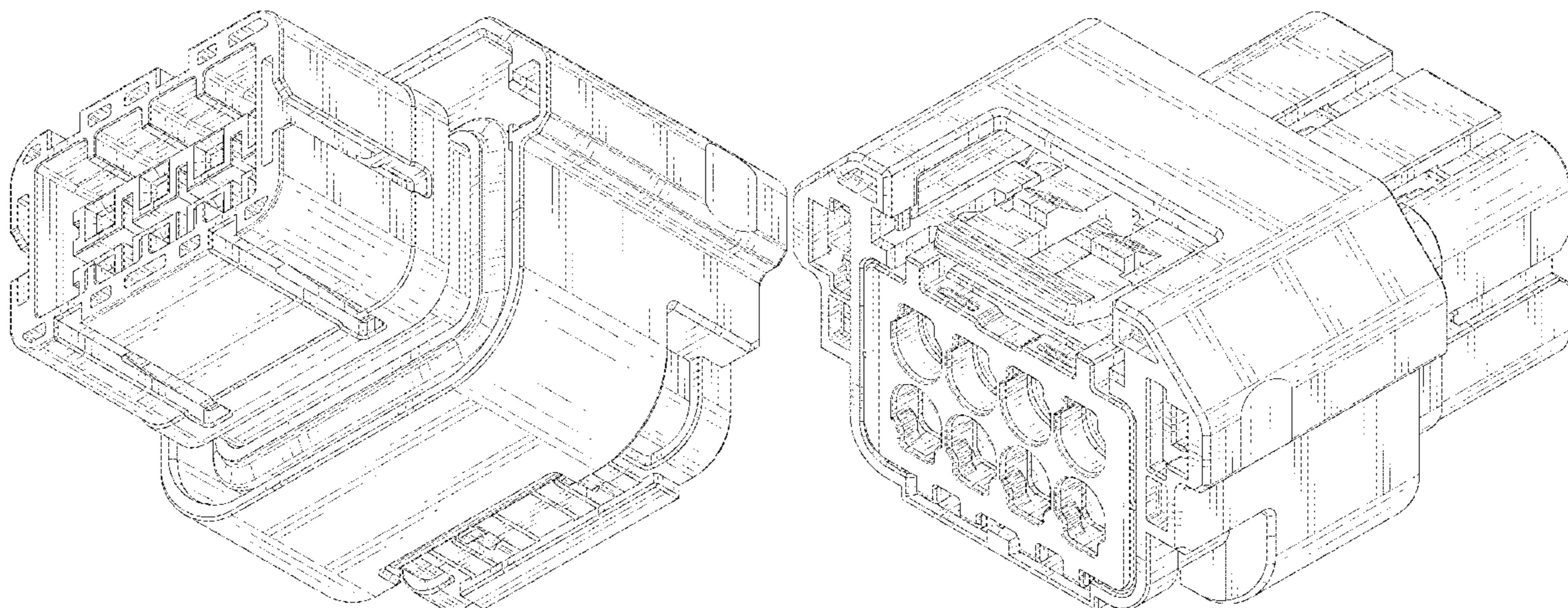
FIG. 8 is a rear, bottom, and left side perspective view thereof;

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

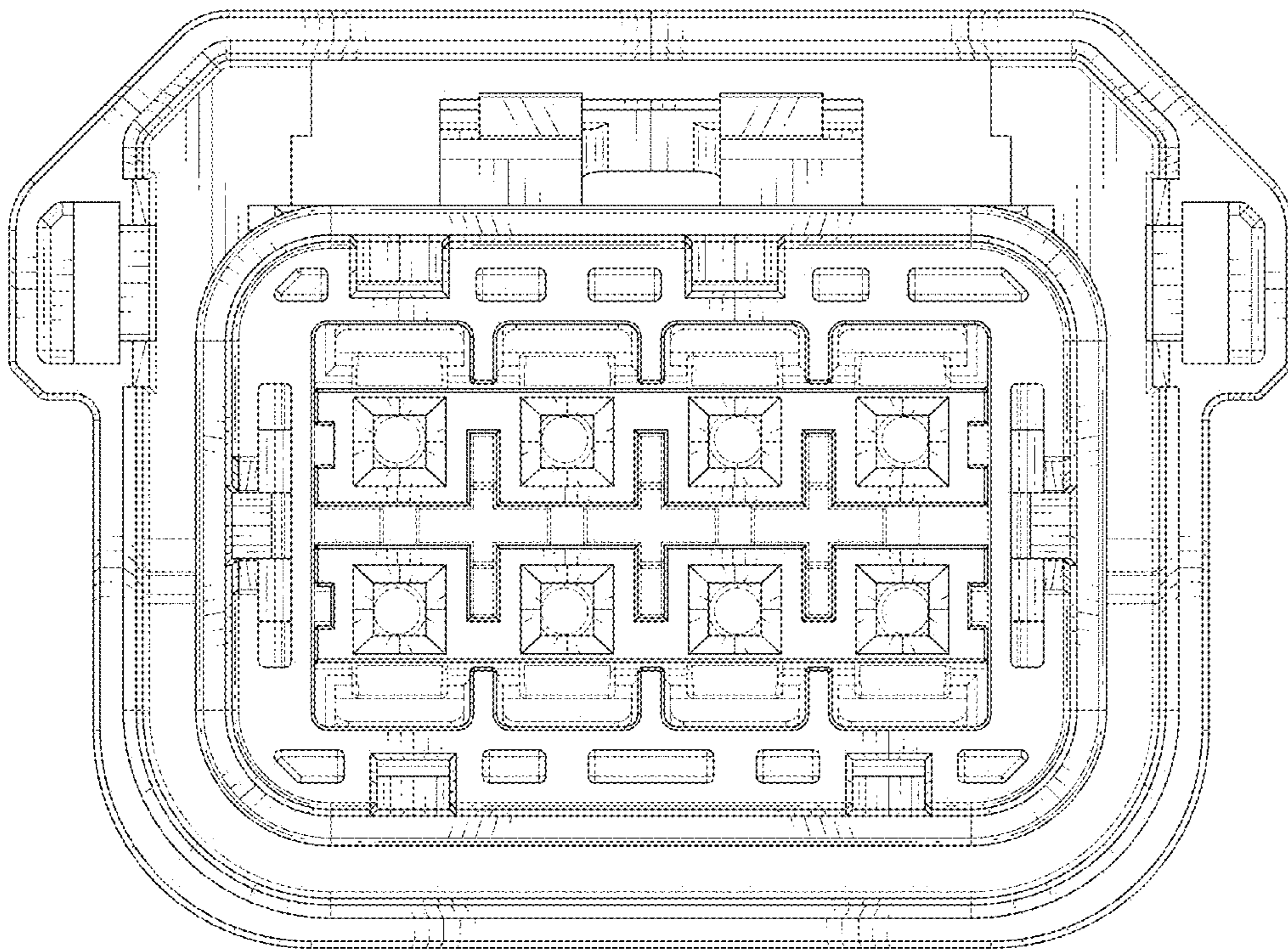


FIG. 1

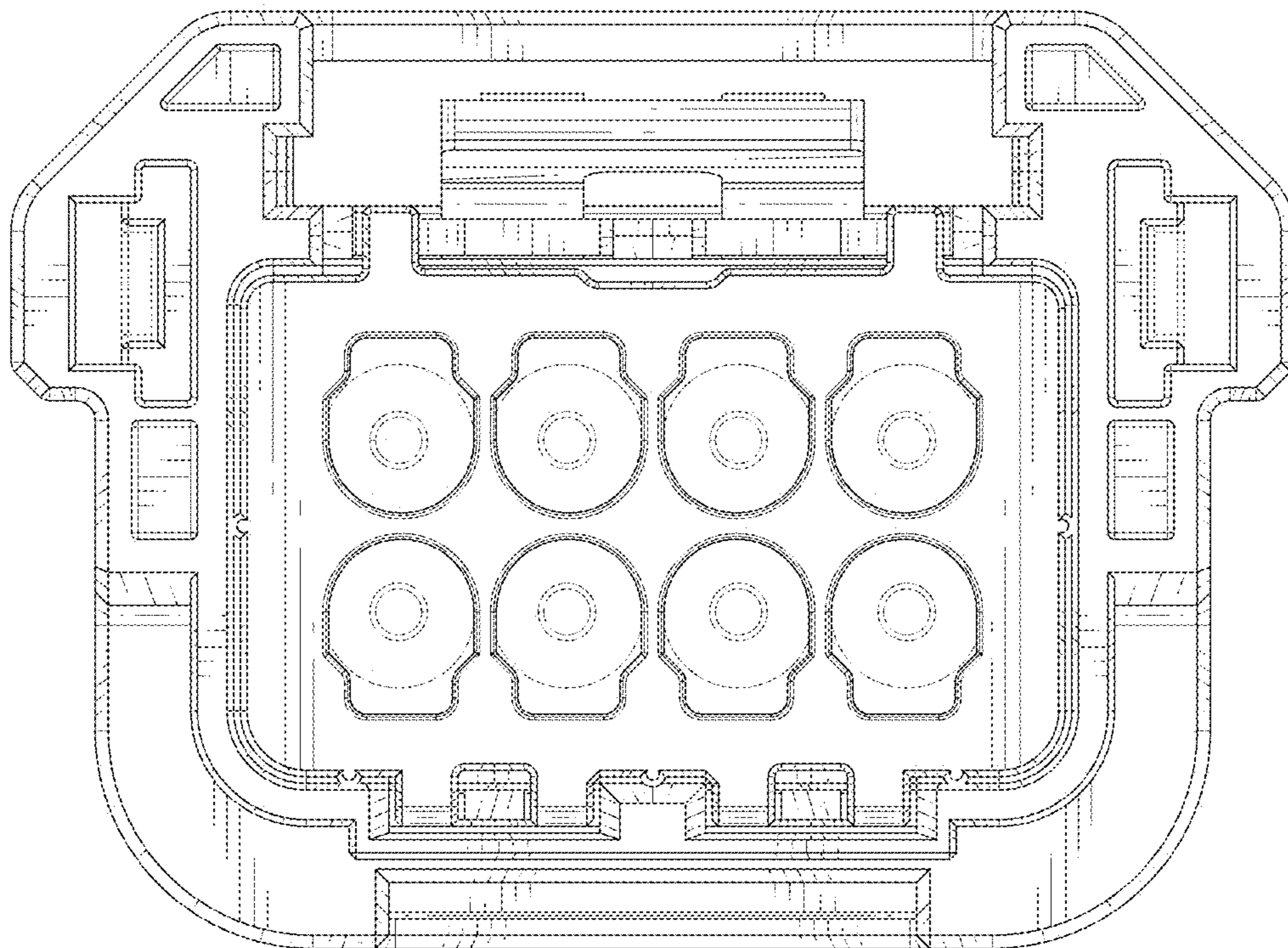


FIG. 2

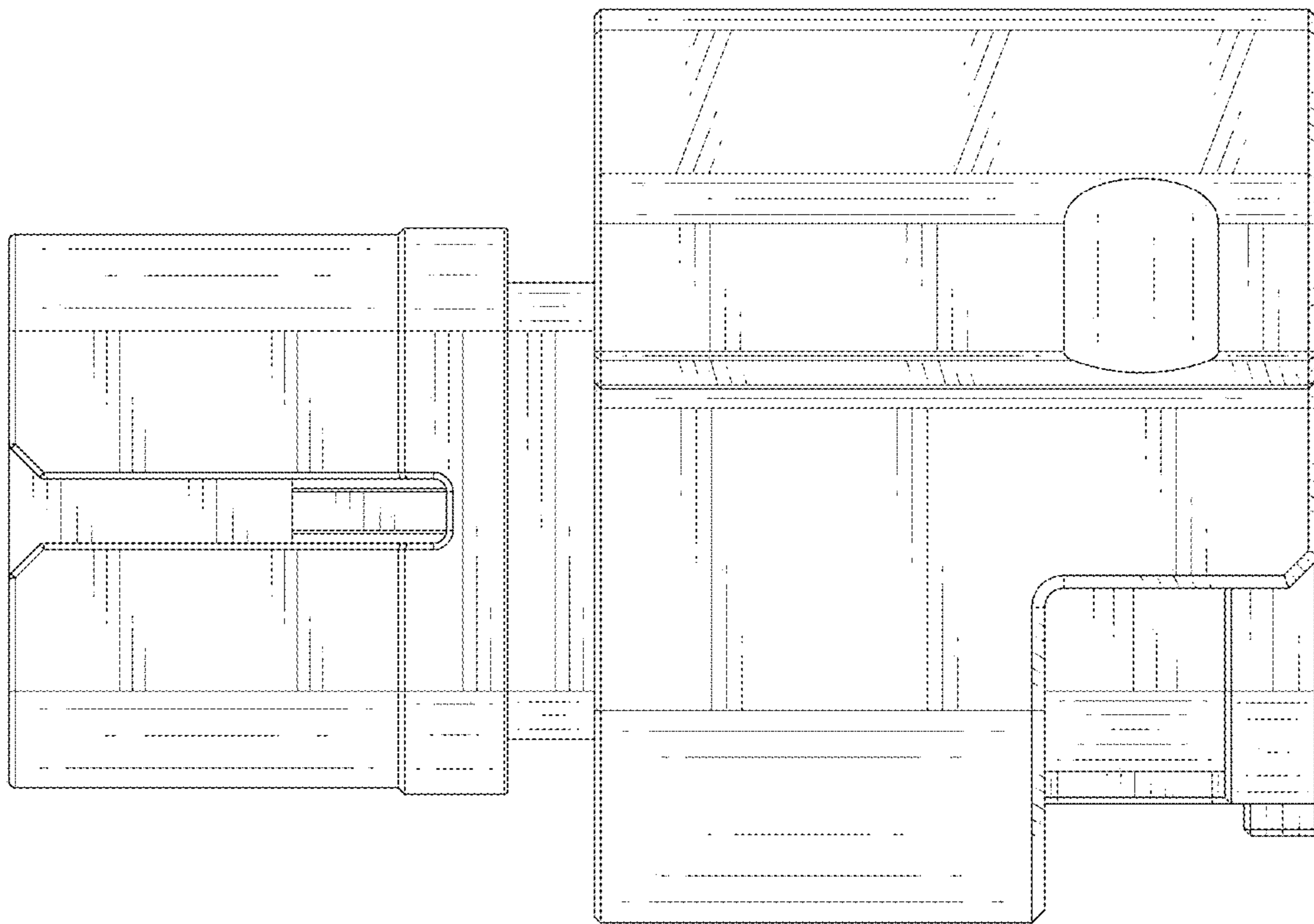


FIG. 3

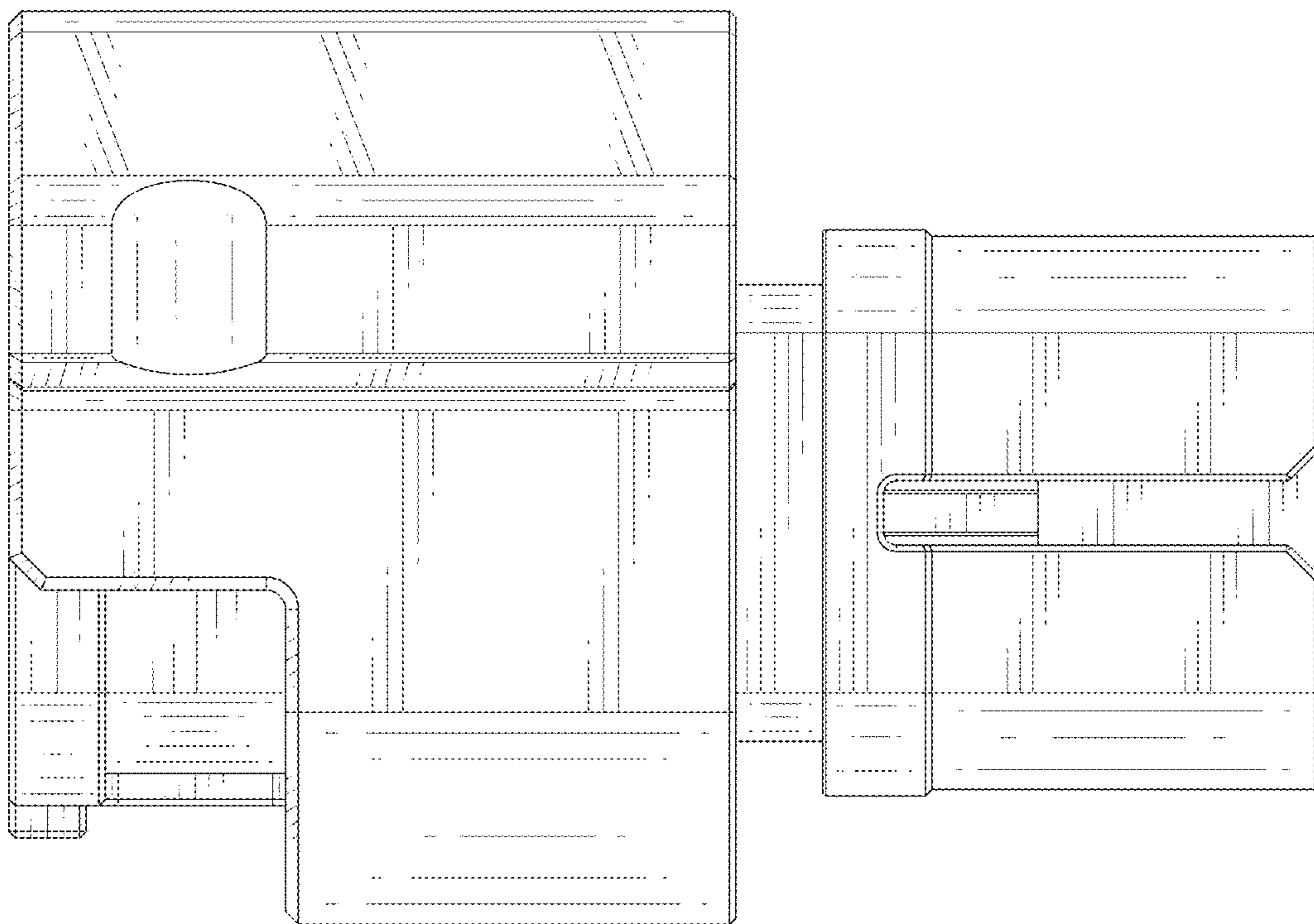


FIG. 4

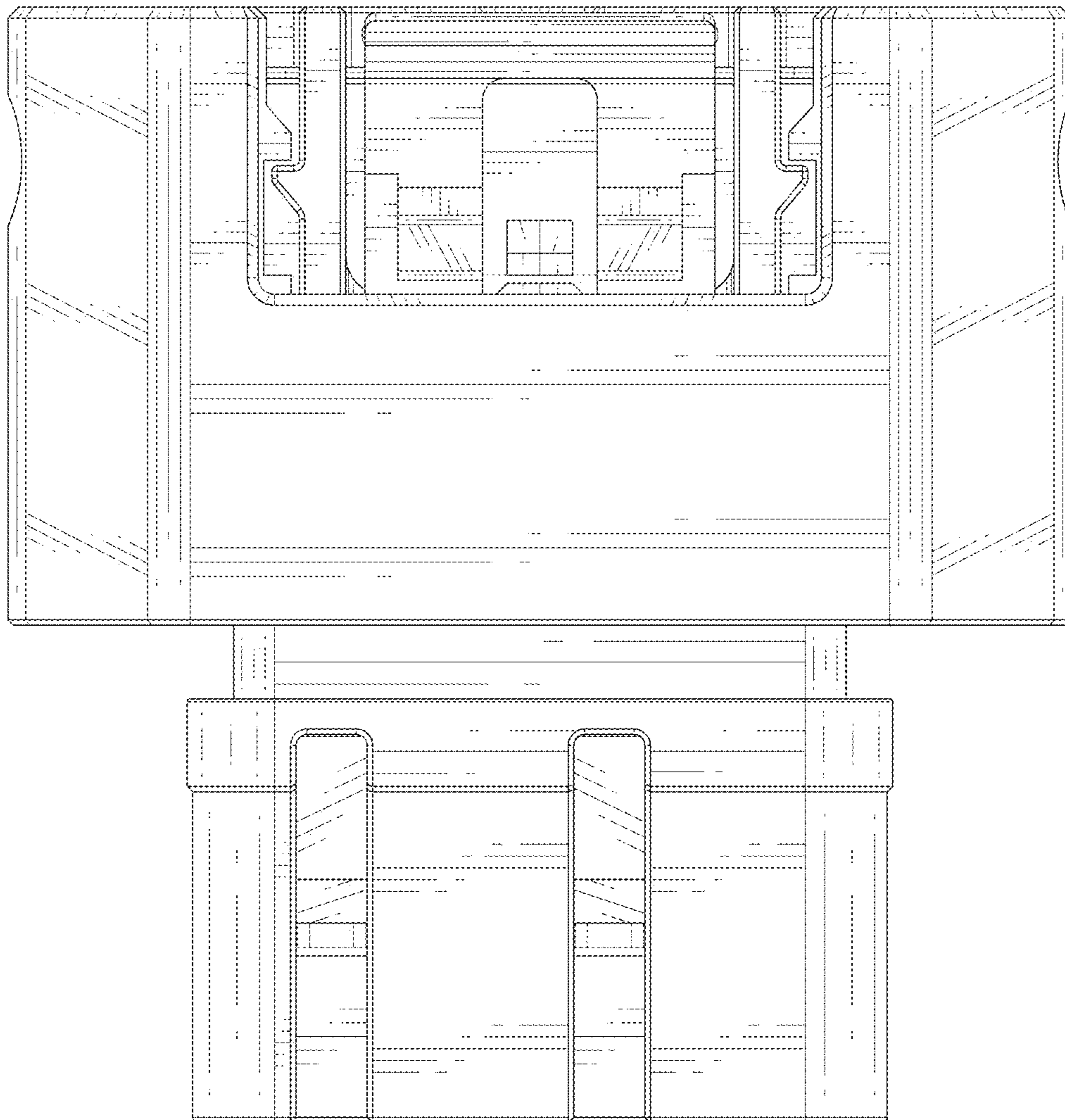


FIG. 5

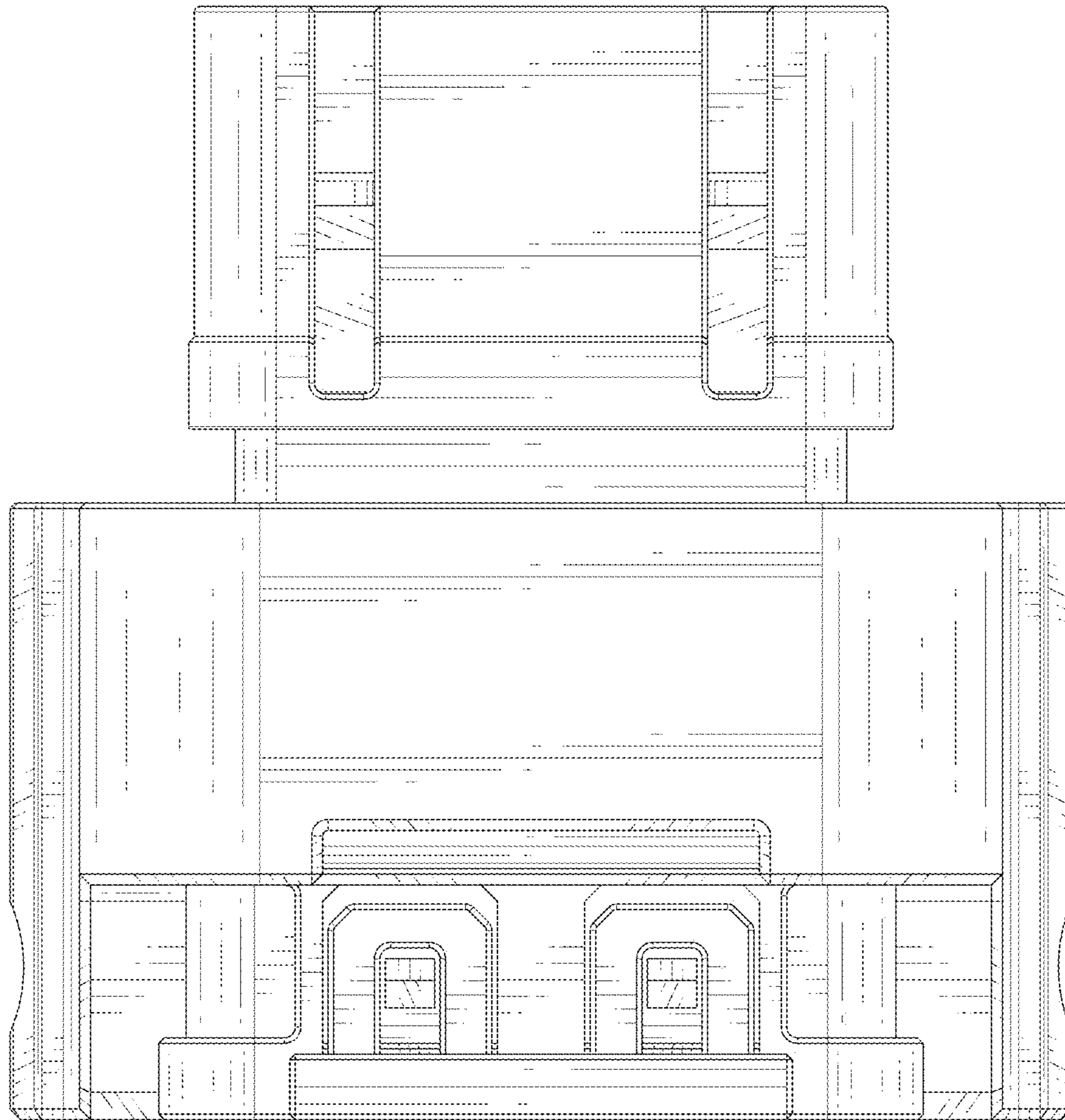


FIG. 6

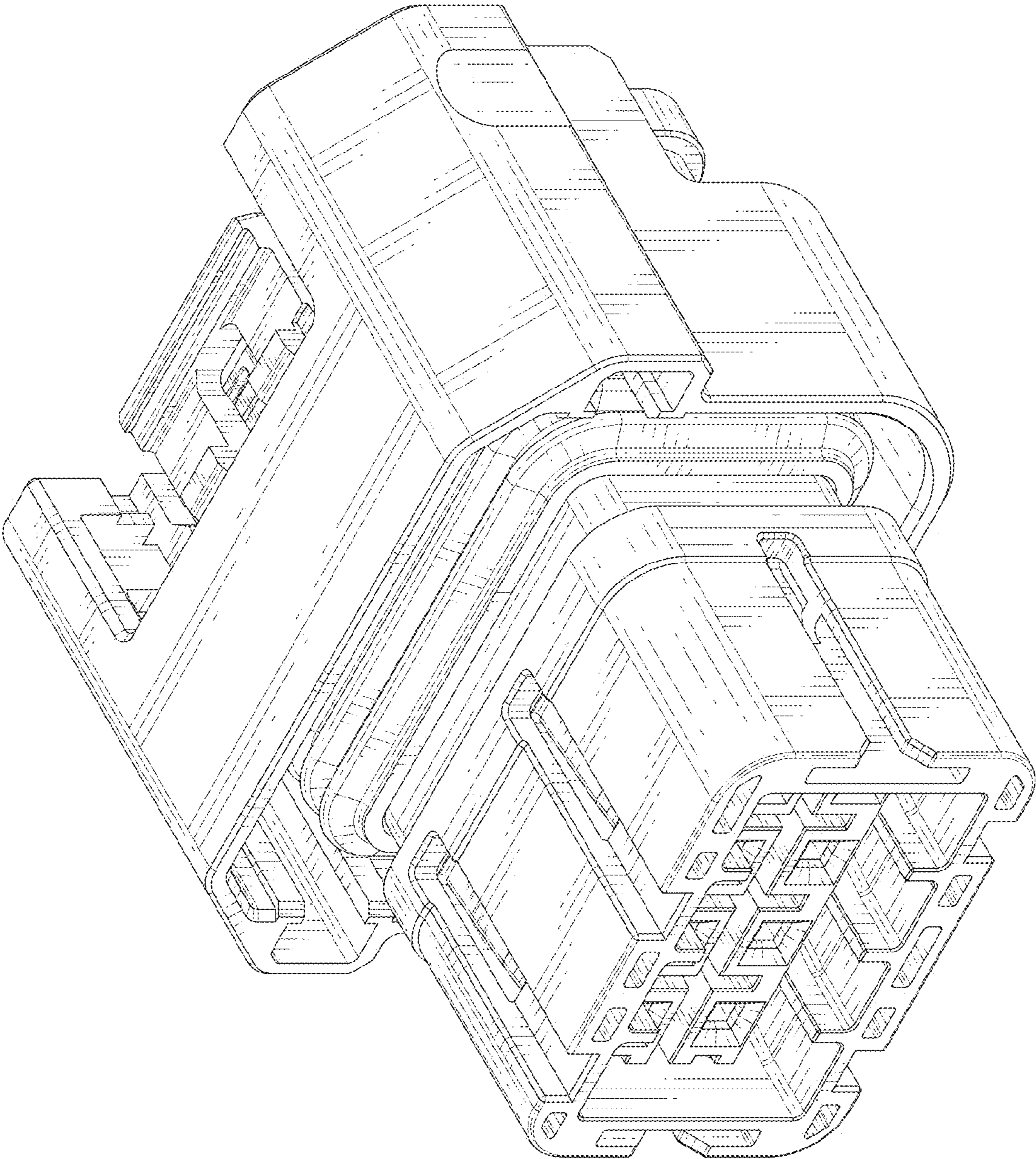


FIG. 7

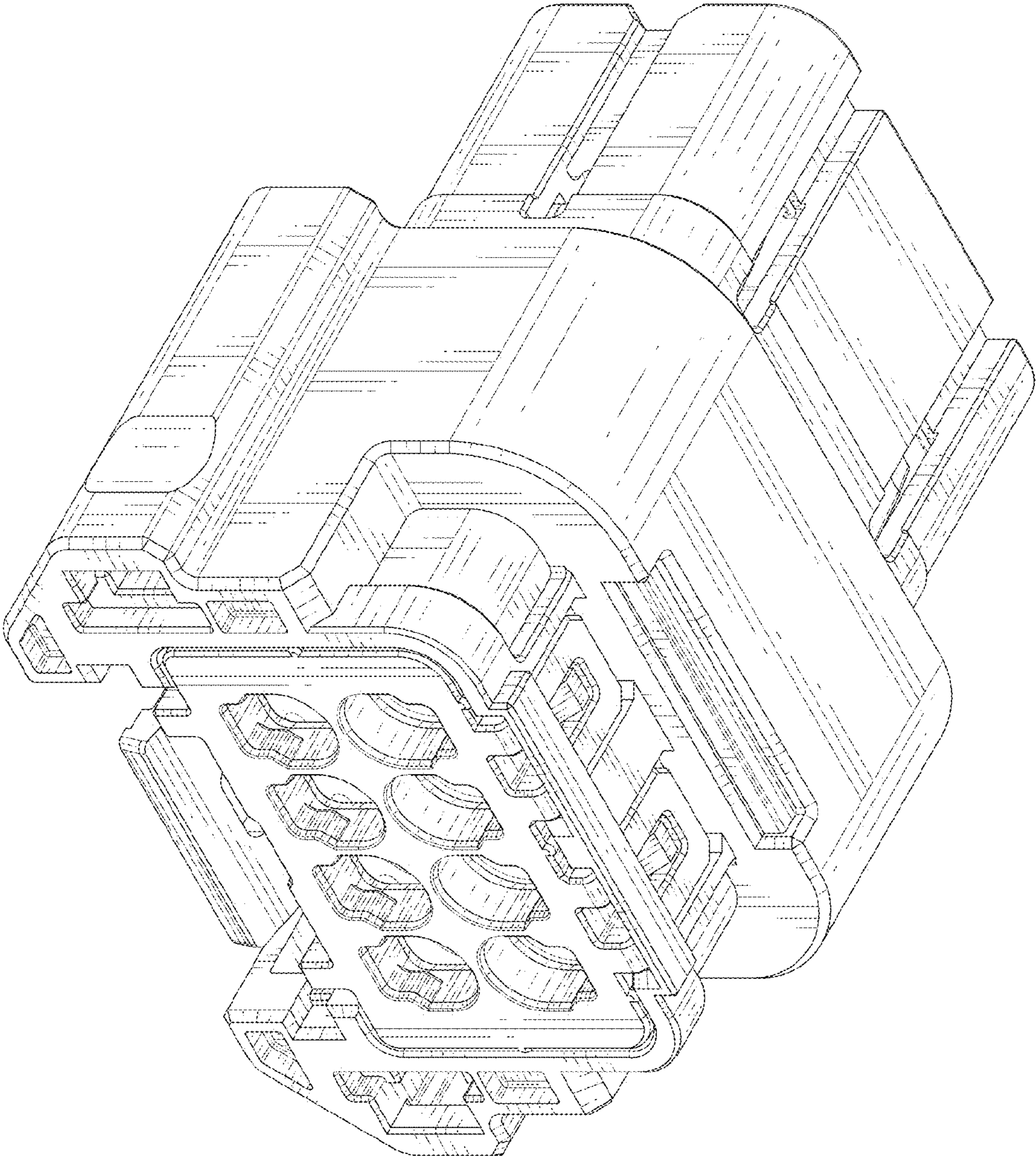


FIG. 8



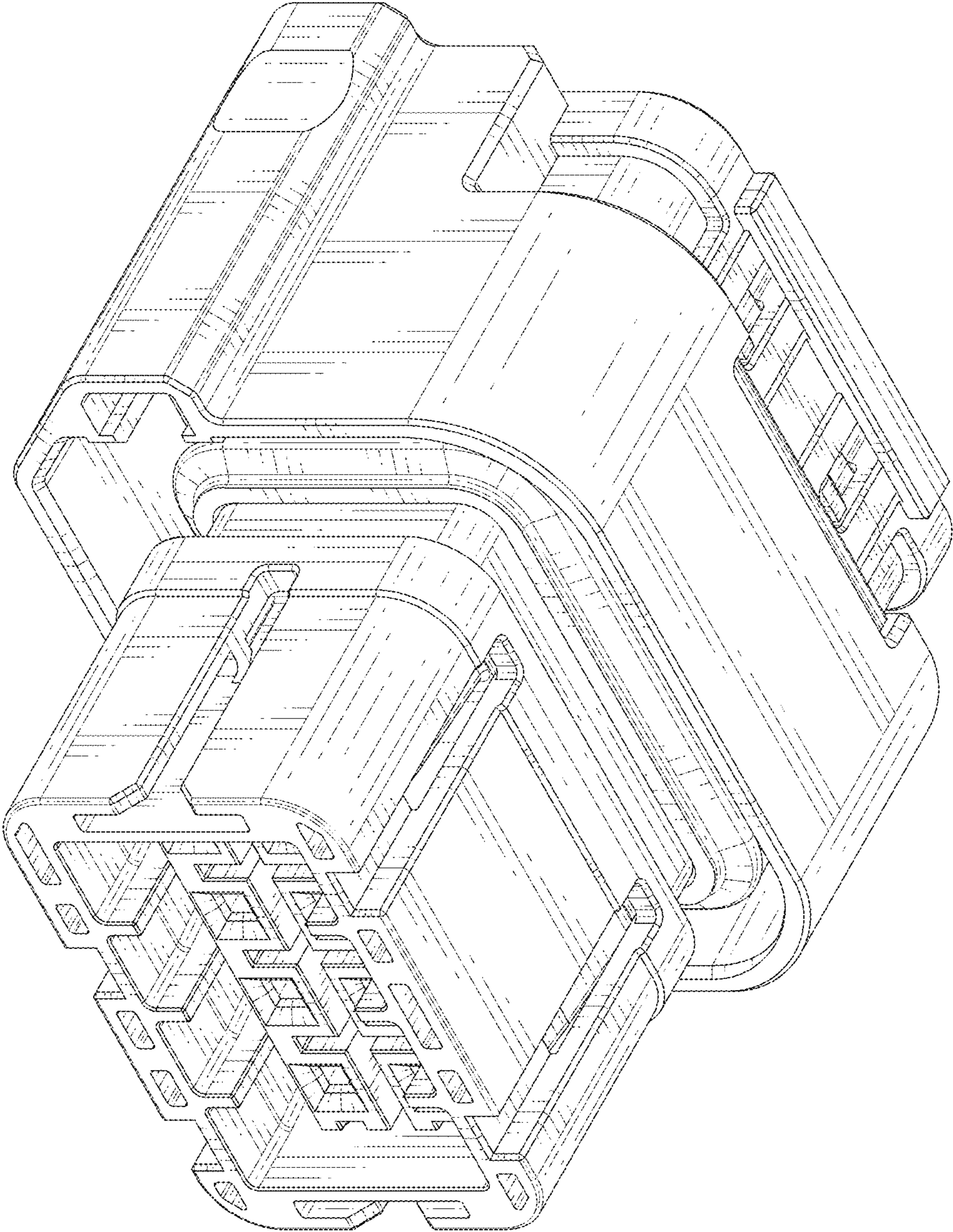


FIG. 9

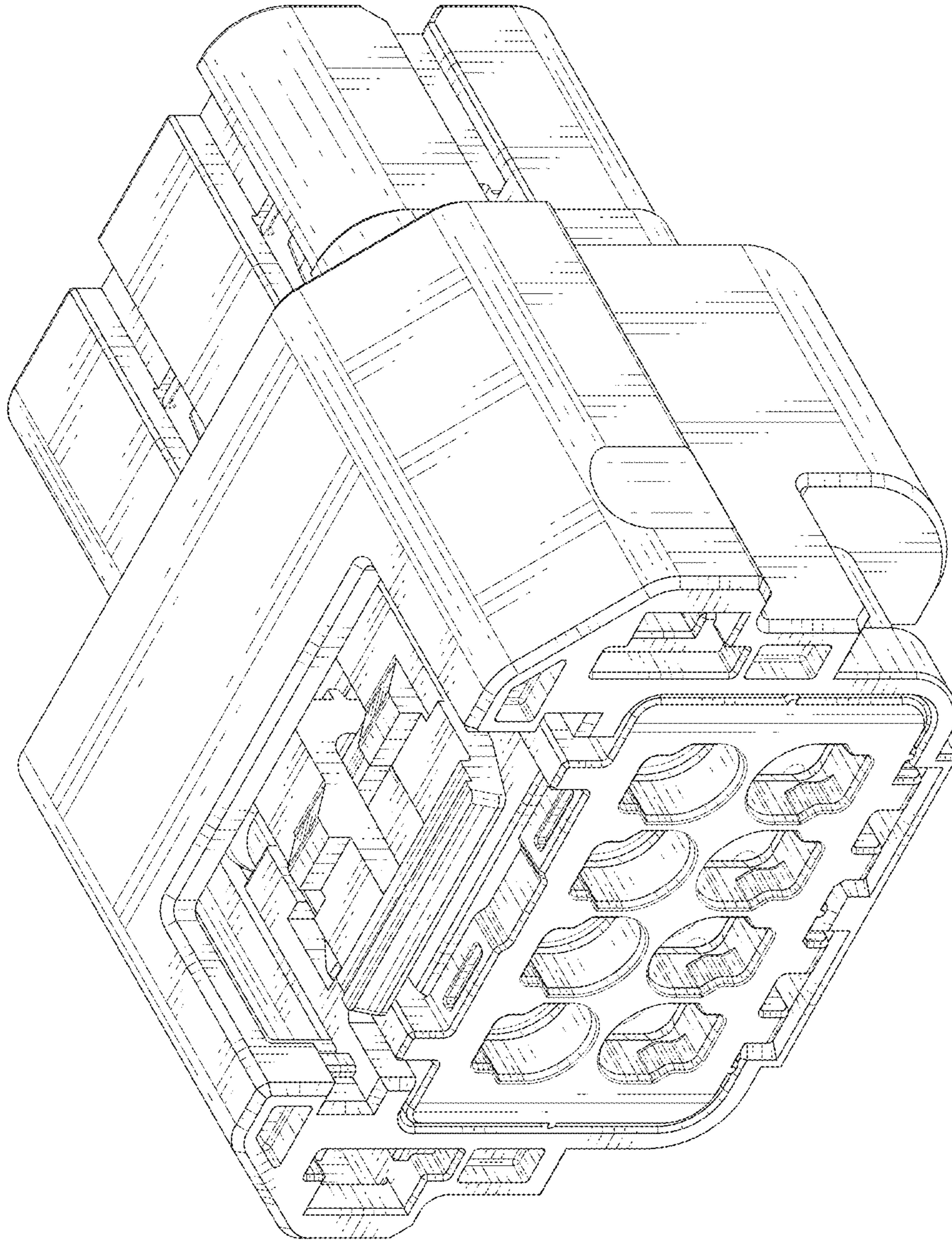


FIG. 10