



US00D918840S

(12) **United States Design Patent** (10) **Patent No.:** **US D918,840 S**
Chen et al. (45) **Date of Patent:** **** May 11, 2021**

(54) **ELECTRICAL CONNECTOR PLASTIC SHELL SEAT**

(71) Applicant: **Xiamen GHGM Industrial Trade Co., Ltd.**, Xiamen (CN)

(72) Inventors: **Bingshui Chen**, Xiamen (CN); **Baohua Huang**, Xiamen (CN); **Zhihuan Li**, Xiamen (CN); **Yonglong Li**, Xiamen (CN)

(73) Assignee: **XIAMEN GHGM INDUSTRIAL TRADE CO., LTD.**, Xiamen (CN)

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

(21) Appl. No.: **29/704,960**

(22) Filed: **Sep. 9, 2019**

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

(52) **U.S. Cl.**
USPC **D13/133; D13/146**

(58) **Field of Classification Search**
USPC D13/107, 110, 118, 120, 123, 133, 146,
D13/147, 149, 154, 184, 199

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D293,313 S * 12/1987 Justiano D13/133
5,611,711 A * 3/1997 Okada H01R 13/6592
439/607.08

(Continued)

OTHER PUBLICATIONS

182 Model 2-Pole PowerPlug Luminaire Disconnect, dated Mar. 27, 2018, [online], [site visited Feb. 25, 2021]. Available from Internet, URL: <https://www.homedepot.com/p/Ideal-182-Model-2-Pole-PowerPlug-Luminaire-Disconnect-100-per-Box-30-082/303741443> (Year: 2018).*

(Continued)

Primary Examiner — Angela J Lee

Assistant Examiner — Shawn T Gingrich

(74) *Attorney, Agent, or Firm* — Muncy, Geissler, Olds & Lowe, P.C.

(57) **CLAIM**

We claim the ornamental design for an electrical connector plastic shell seat, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of an electrical connector plastic shell seat showing our new design;

FIG. 2 is a rear elevational view thereof;

FIG. 3 is a left side view thereof;

FIG. 4 is a right side view thereof;

FIG. 5 is a top plan view thereof;

FIG. 6 is a bottom plan view thereof;

FIG. 7 is a front, bottom, right perspective view thereof;

FIG. 8 is a front elevational view of a male portion of an electrical connector plastic shell seat showing our new design;

FIG. 9 is a rear elevational view thereof;

FIG. 10 is a left side view thereof;

FIG. 11 is a right side view thereof;

FIG. 12 is a top plan view thereof;

FIG. 13 is a bottom plan view thereof;

FIG. 14 is a front, bottom, right perspective view thereof;

FIG. 15 is a front elevational view of a female portion of an electrical connector plastic shell seat showing our new design;

FIG. 16 is a rear elevational view thereof;

FIG. 17 is a left side view thereof;

FIG. 18 is a right side view thereof;

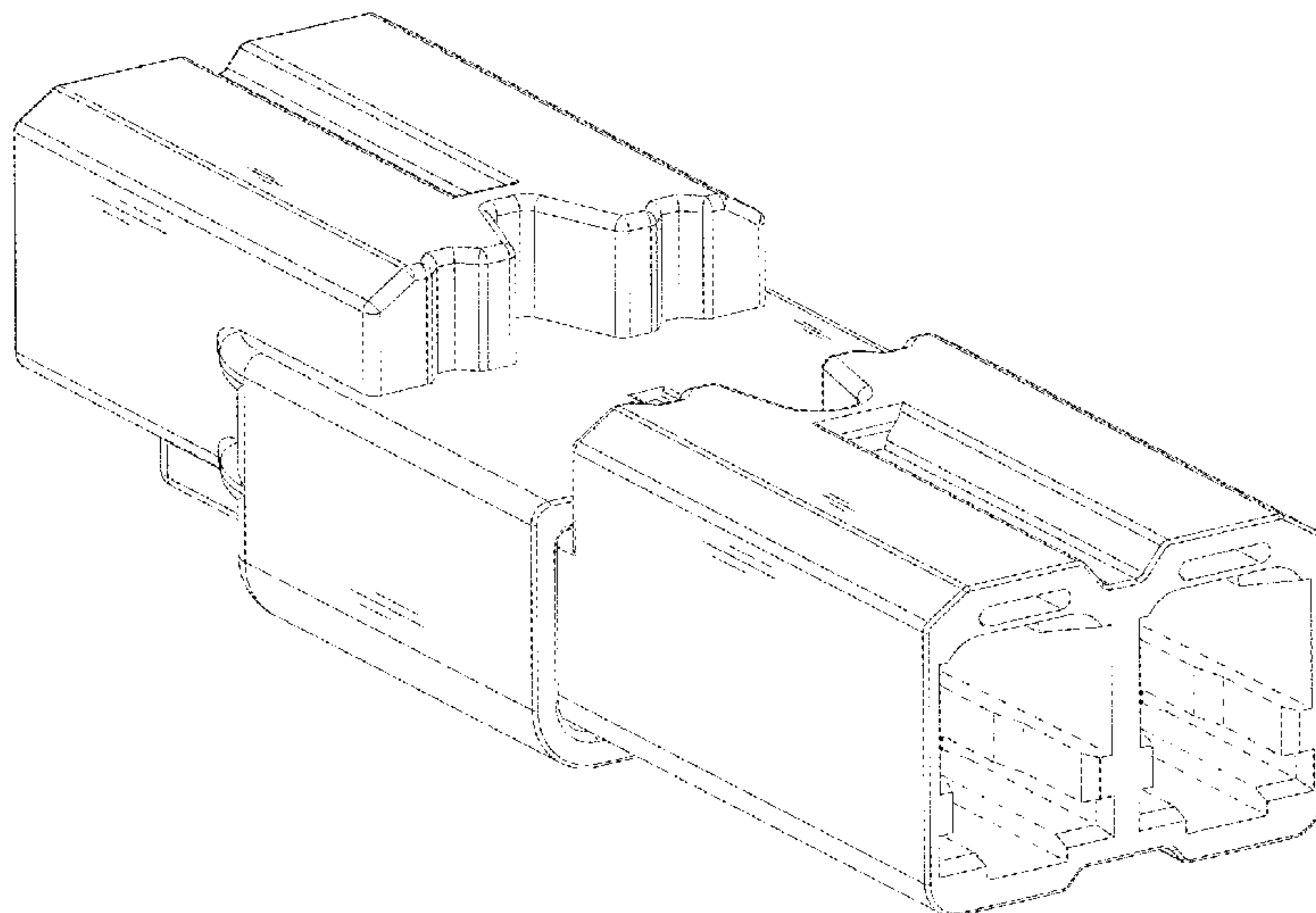
FIG. 19 is a top plan view thereof;

FIG. 20 is a bottom plan view thereof; and,

FIG. 21 is a front, bottom, right perspective view thereof.

The broken lines shown in the drawings are for the purpose of illustrating portions of the article and form no part of the claimed design.

1 Claim, 21 Drawing Sheets



(58) **Field of Classification Search**
CPC H01R 4/48; H01R 11/22; H01R 12/00;
H01R 12/71; H01R 12/73; H01R 13/04;
H01R 13/11; H01R 13/20; H01R 13/28;
H01R 13/502; H01R 13/514; H01R
13/62; H01R 13/627; H01R 13/639
See application file for complete search history.

D873,773 S * 1/2020 Cao D13/133
D873,774 S * 1/2020 Cao D13/133
D883,932 S * 5/2020 Chen D13/133
2014/0011388 A1 * 1/2014 Muro H01R 13/627
439/352
2015/0255923 A1 * 9/2015 Xu H01R 4/4836
439/345
2016/0072214 A1 * 3/2016 Shi H01R 13/2442
439/660

(56) **References Cited**

U.S. PATENT DOCUMENTS

D512,687 S * 12/2005 Baker D13/133
D555,594 S * 11/2007 So D13/133
D574,772 S * 8/2008 Sutter D13/133
D574,773 S * 8/2008 Sutter D13/133
D611,903 S * 3/2010 Karabcievschy D13/133
D642,528 S * 8/2011 Gravolin D13/133
D643,817 S * 8/2011 Ando D13/133
8,845,144 B1 * 9/2014 Davis F21S 8/02
362/364
9,306,348 B2 * 4/2016 Feng H01R 24/70
D759,595 S * 6/2016 Enomoto D13/133
D798,237 S * 9/2017 Peng D13/133
10,153,573 B1 * 12/2018 Chen H01R 12/732

OTHER PUBLICATIONS

Light-N-Connectors, dated Jul. 2019, [online], [site visited Feb. 25, 2021]. Available from Internet, URL: https://www.te.com/commerce/DocumentDelivery/DDEController?Action=showdoc&DocId=Data+Sheet%7F1-1773925-1_LIGHT-N-LOK_Brochure%7F1907%7Fpdf%7FEnglish%7FENG_DS_1-1773925-1_LIGHT-N-LOK_Brochure_1907.pdf (Year: 2019).*

Greenlite Luminaire Disconnects, dated Oct. 18, 2015, [online]. [site visited Feb. 25, 2021], Available from Internet, URL: <https://www.greenlitecable.com/products/disconnect.html> (Year: 2015).*

* cited by examiner

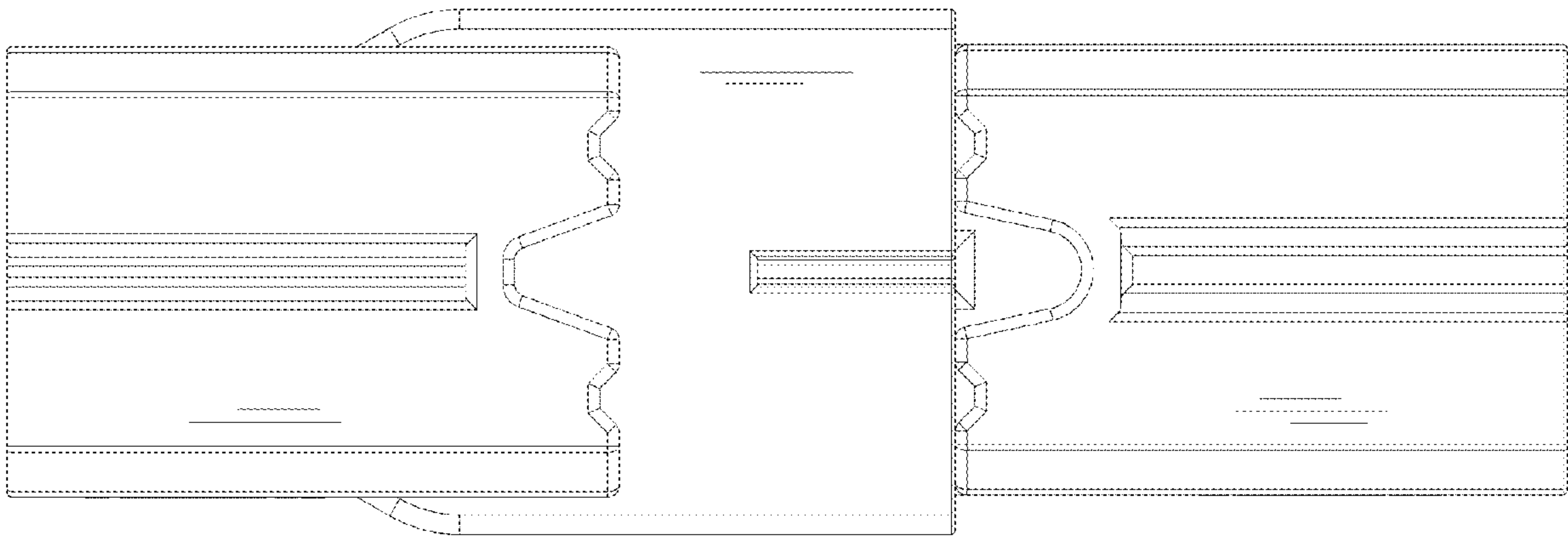


FIG. 1

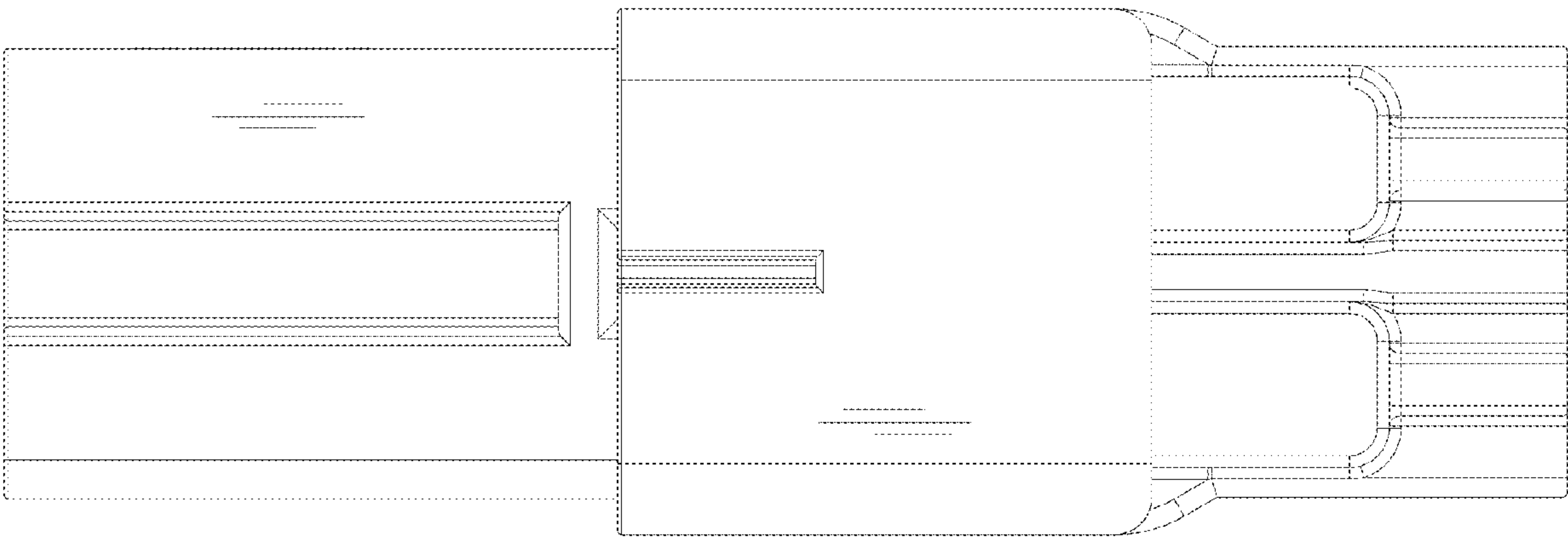


FIG. 2

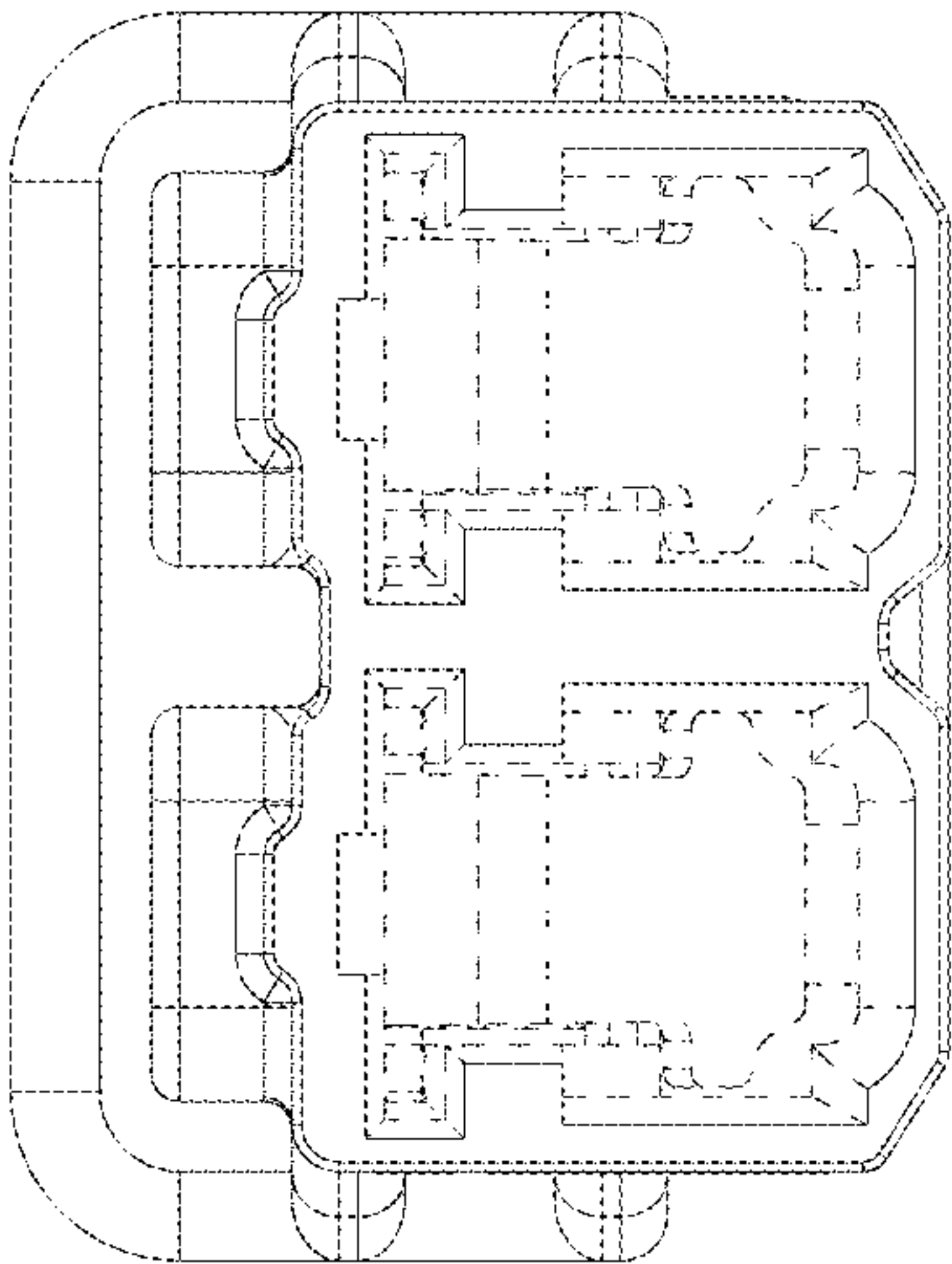


FIG. 3

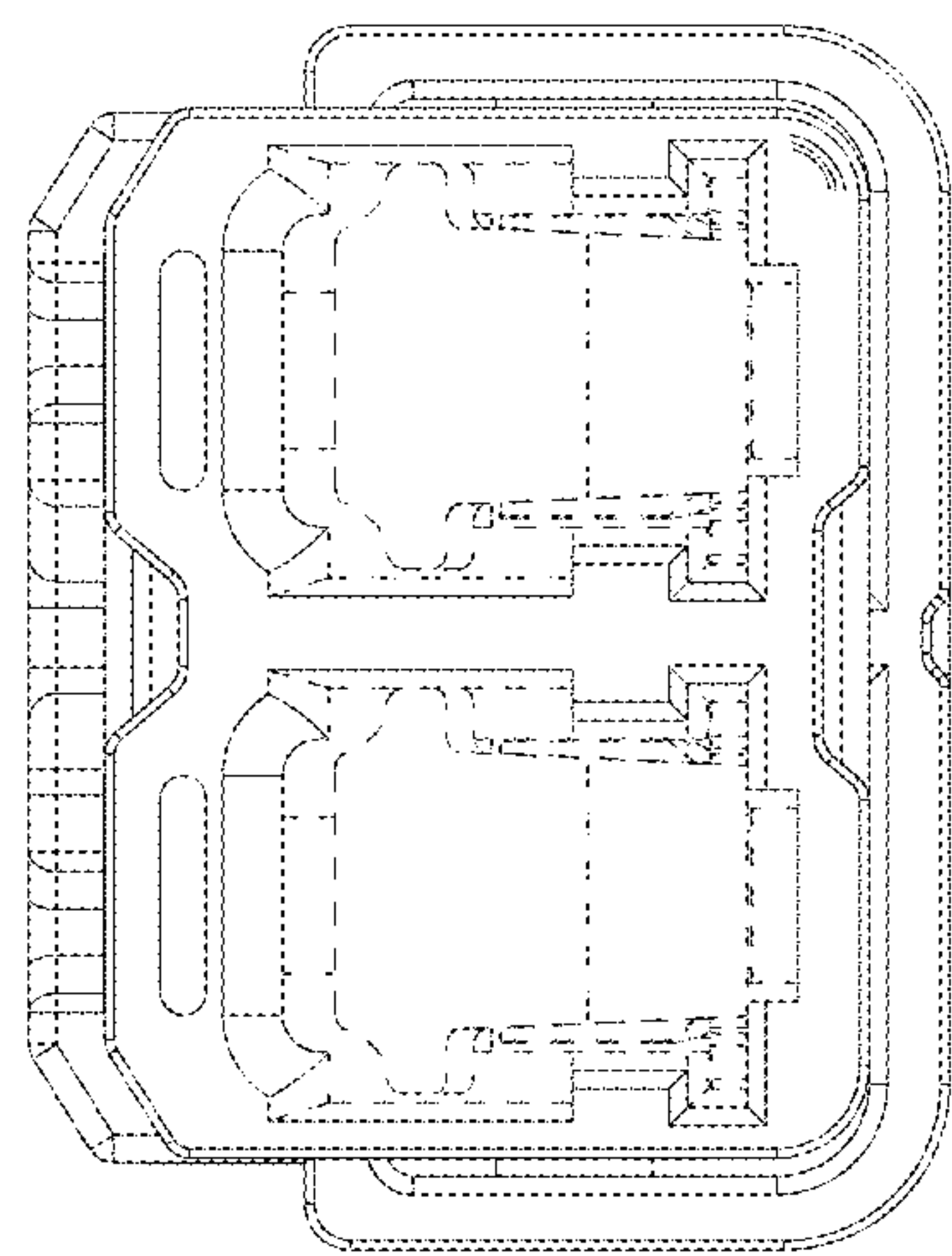


FIG. 4

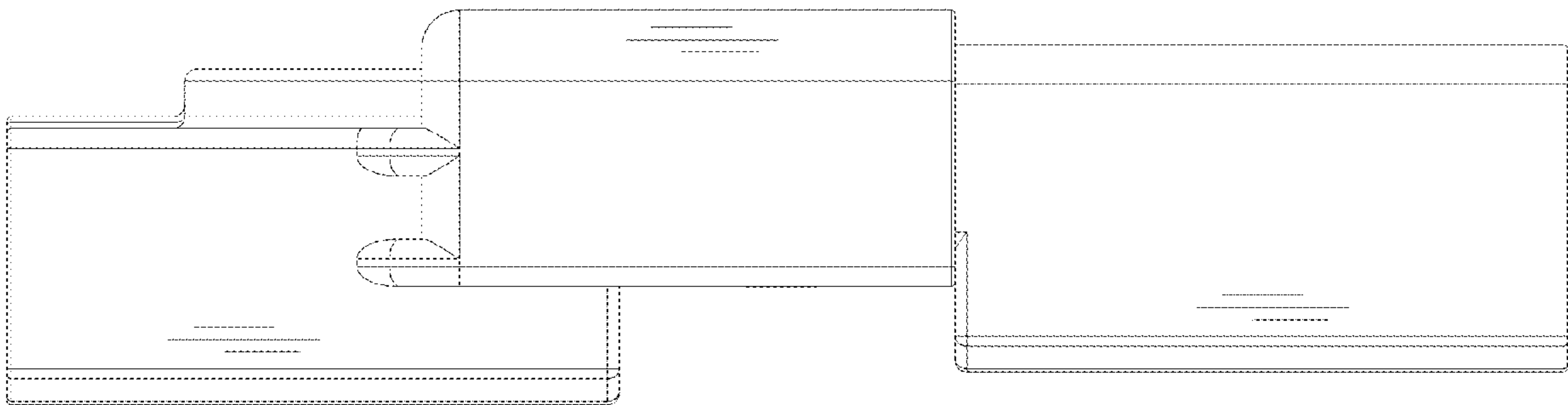


FIG. 5

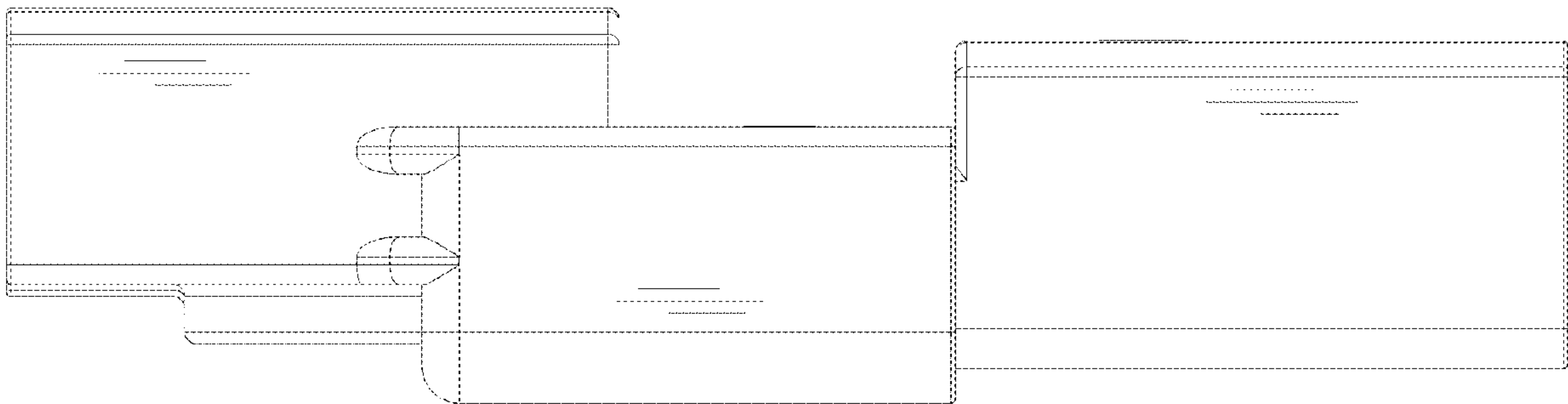


FIG. 6

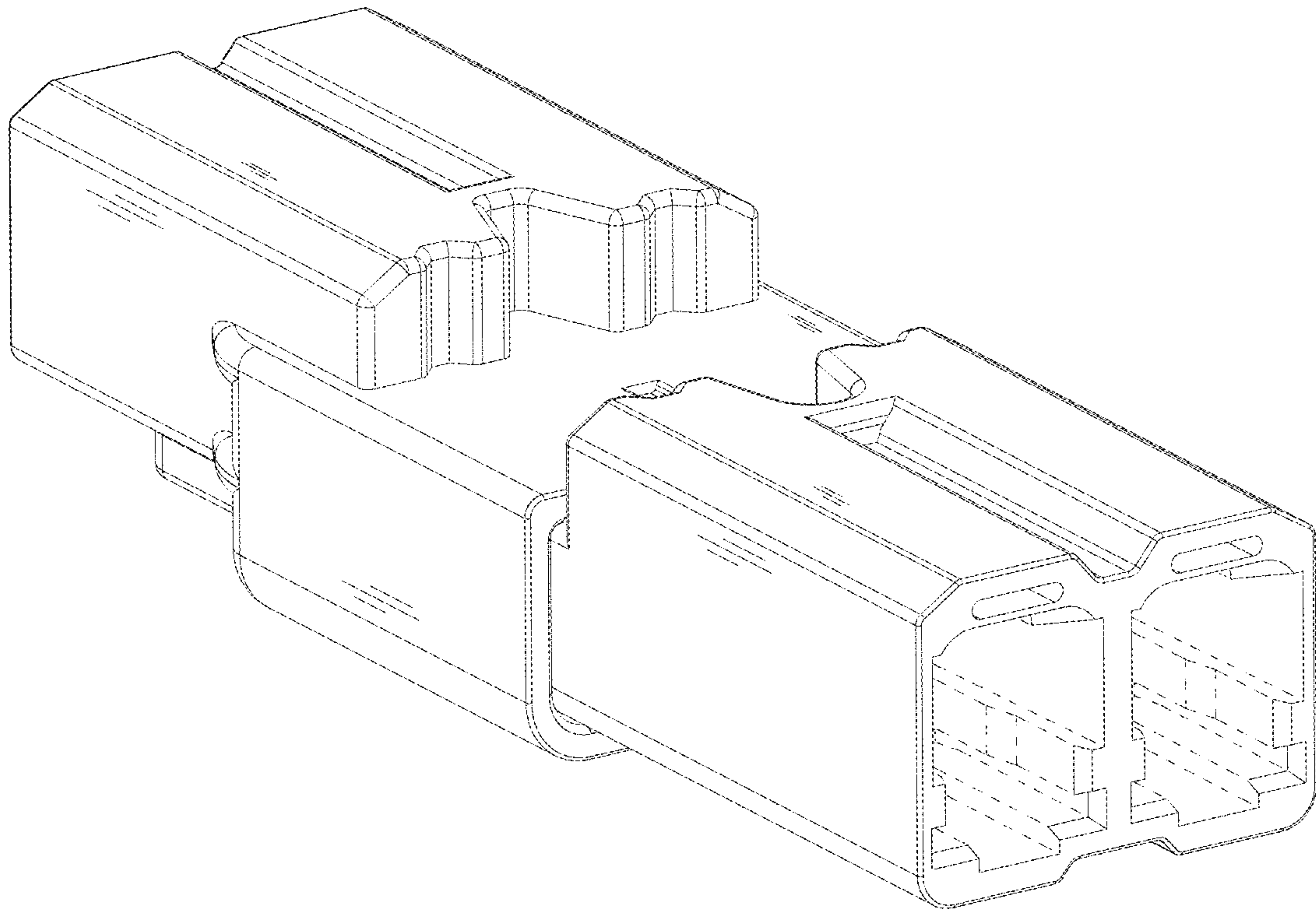


FIG. 7

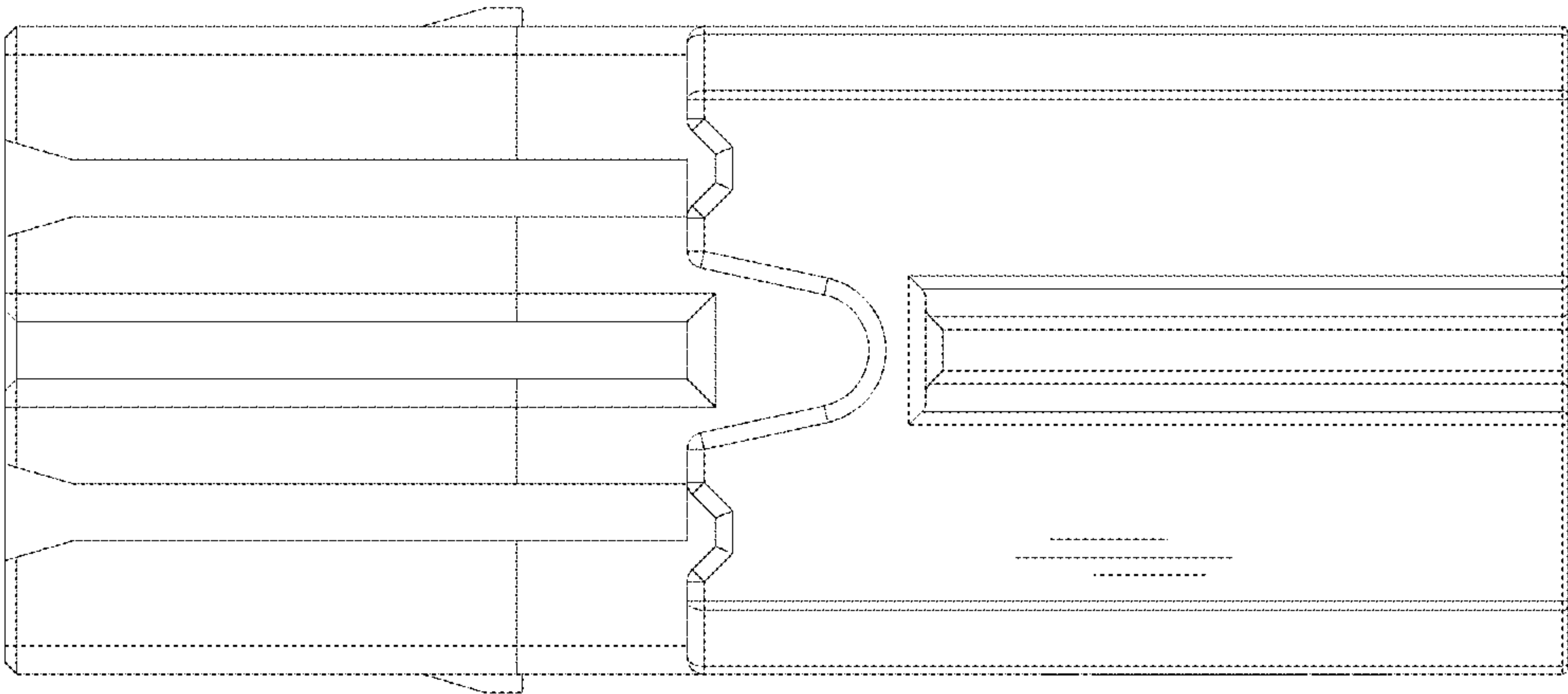


FIG. 8

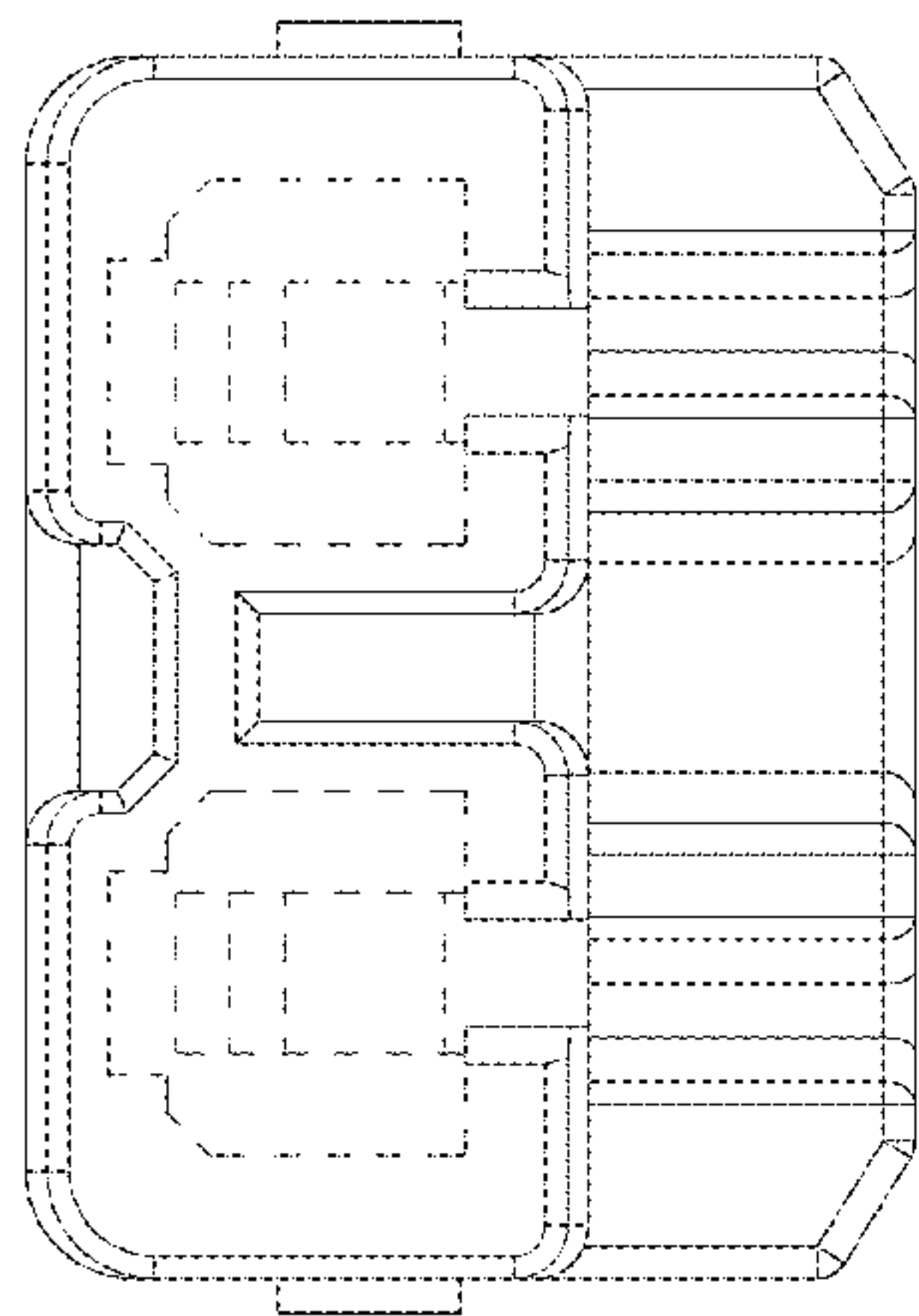


FIG. 10

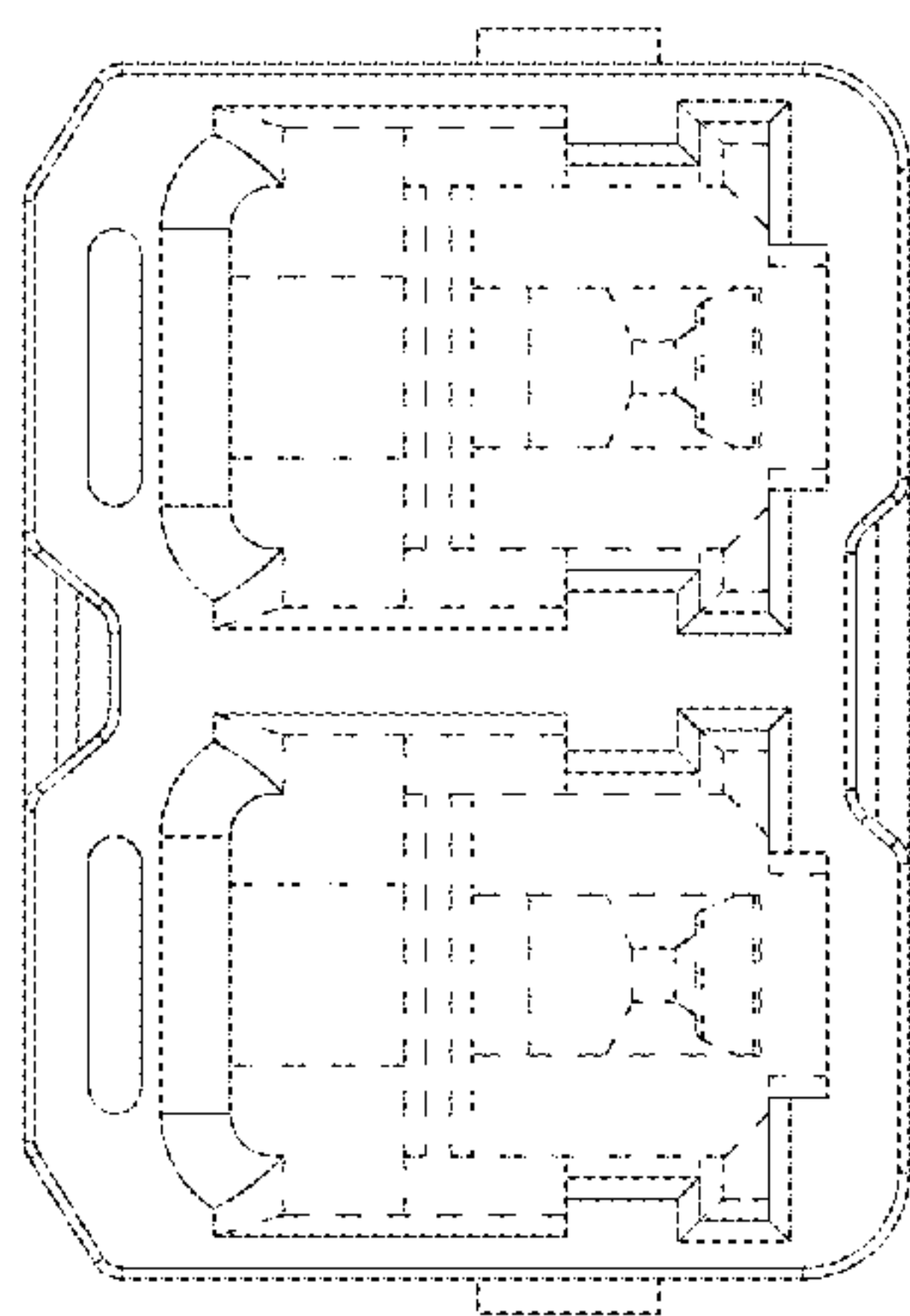


FIG. 11

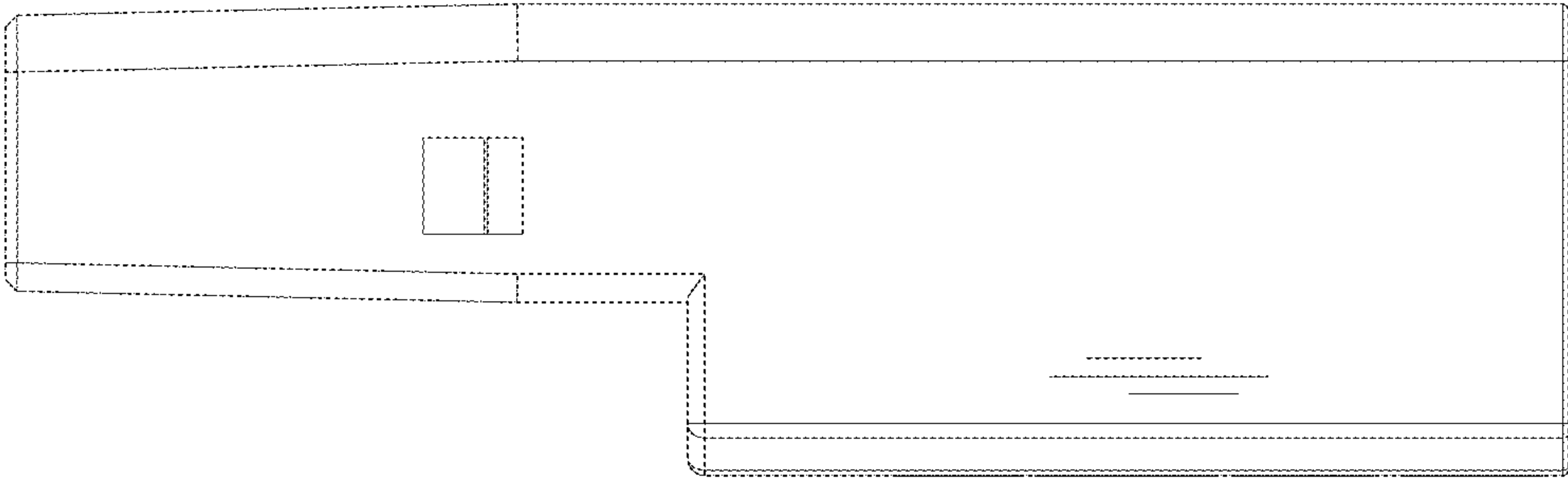


FIG. 12

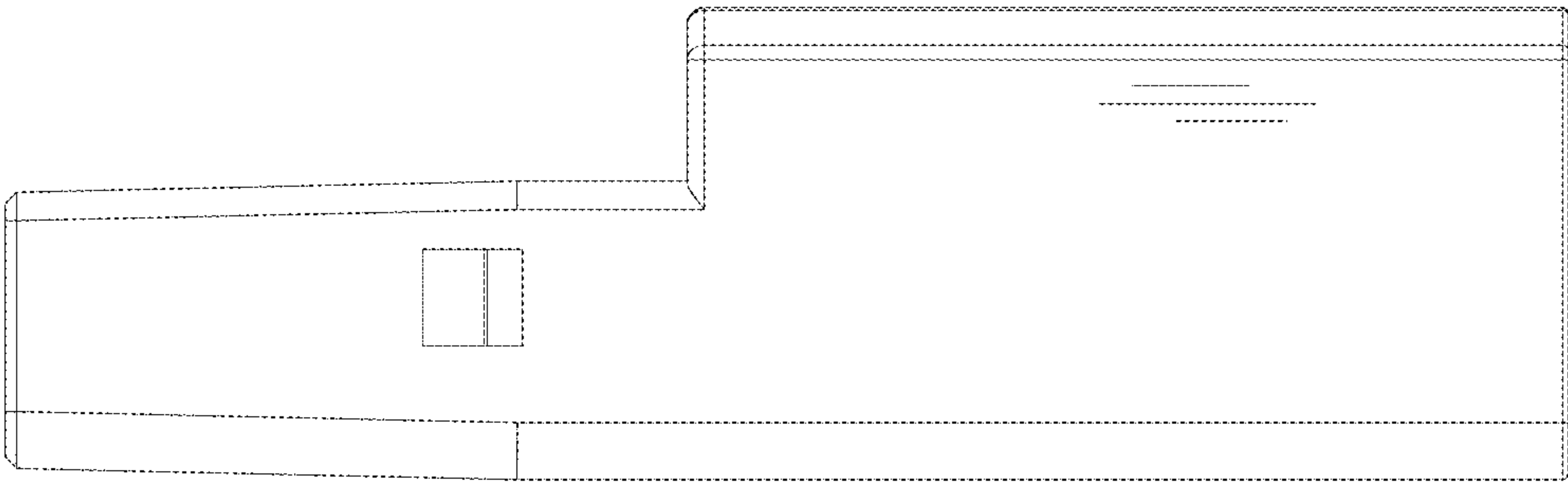


FIG. 13

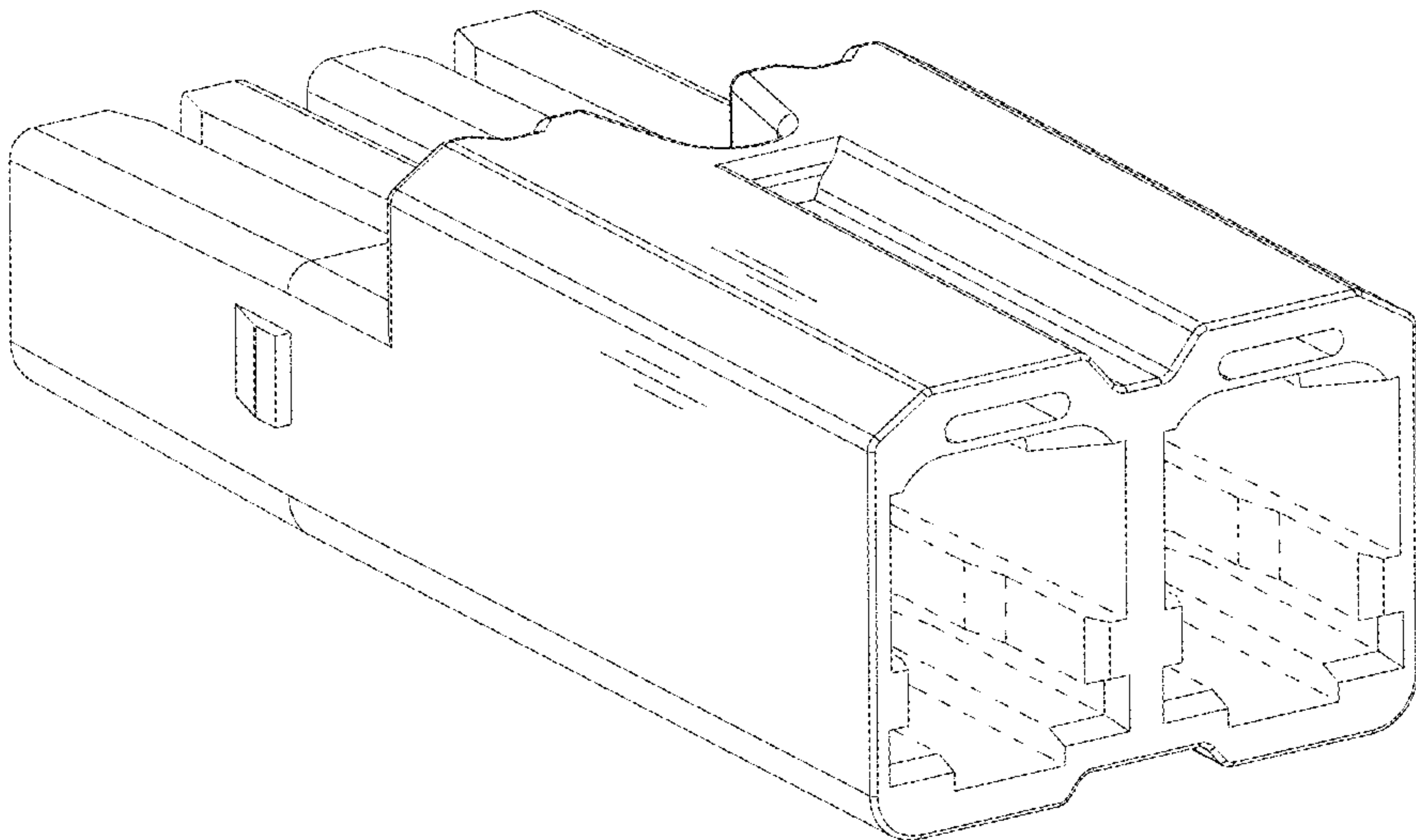


FIG.14

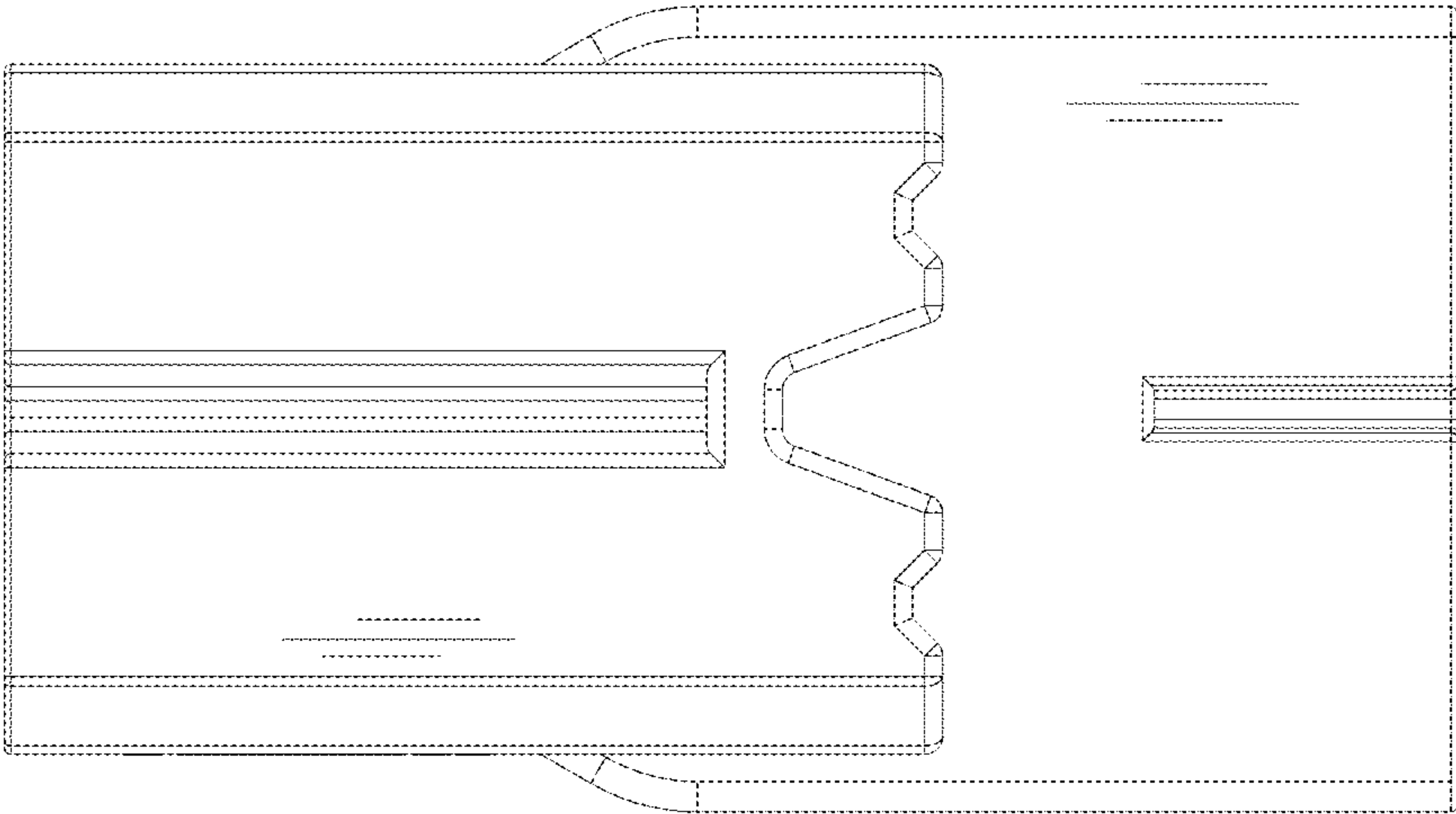


FIG. 15

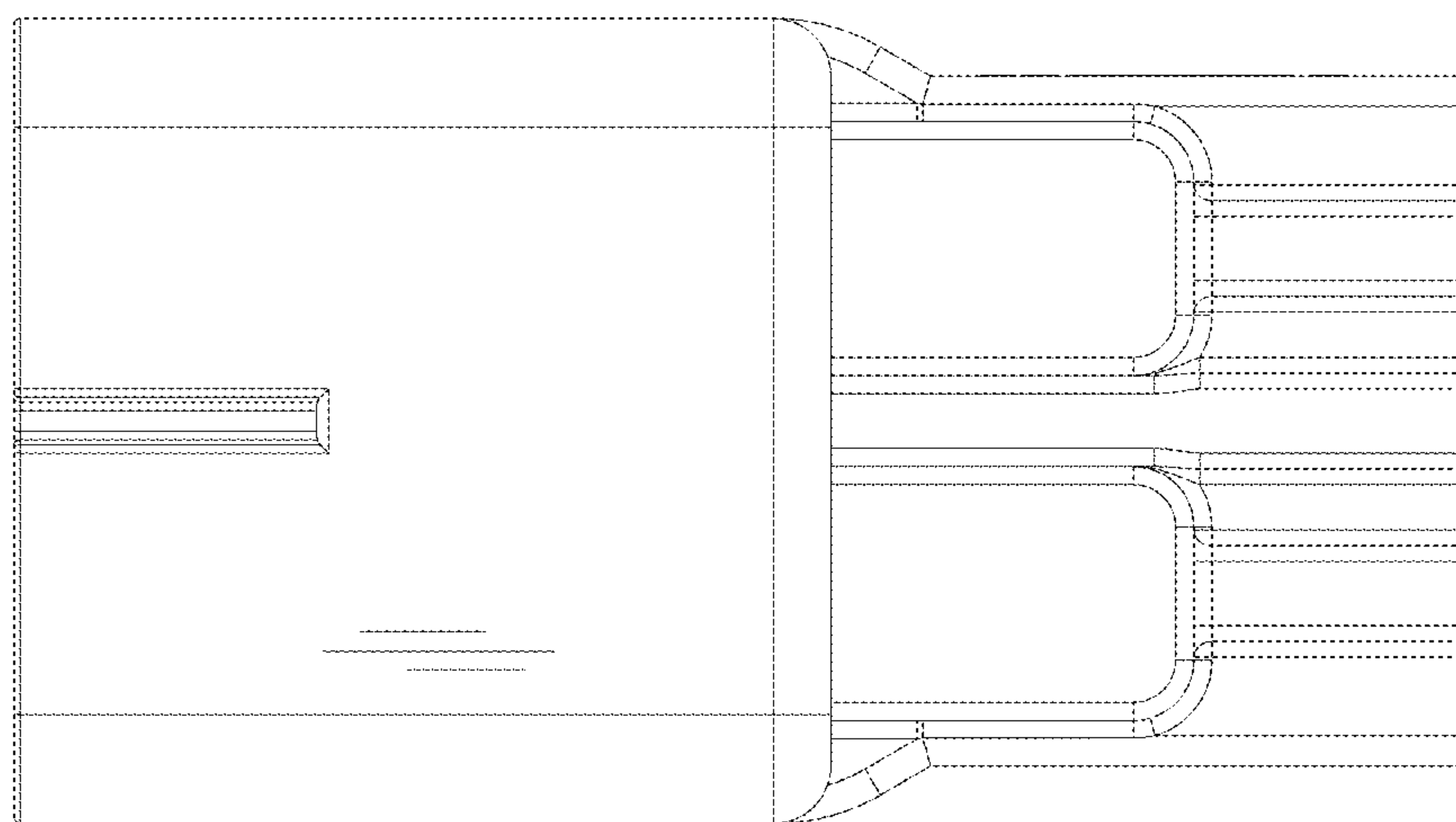


FIG. 16

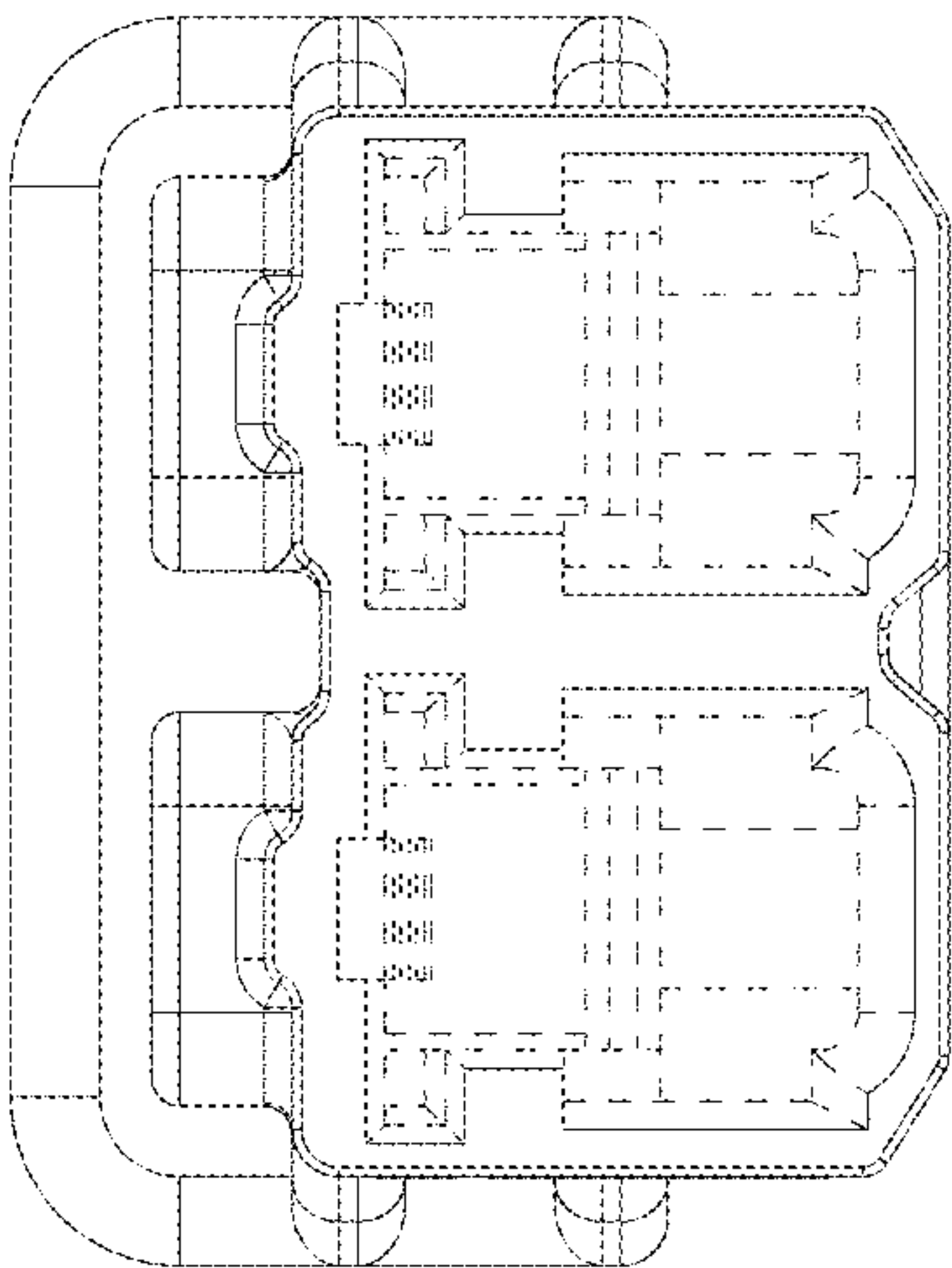


FIG. 17

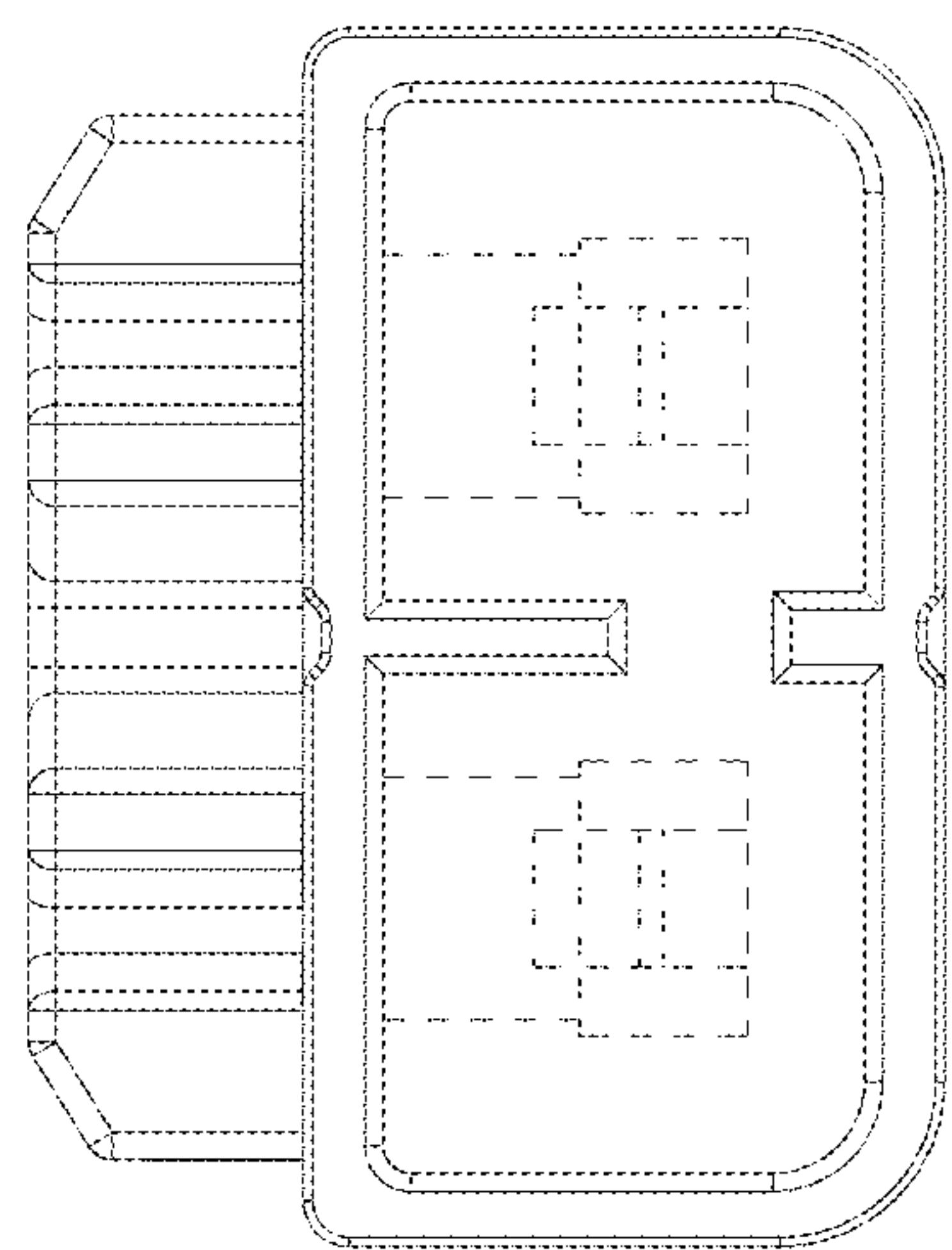


FIG. 18

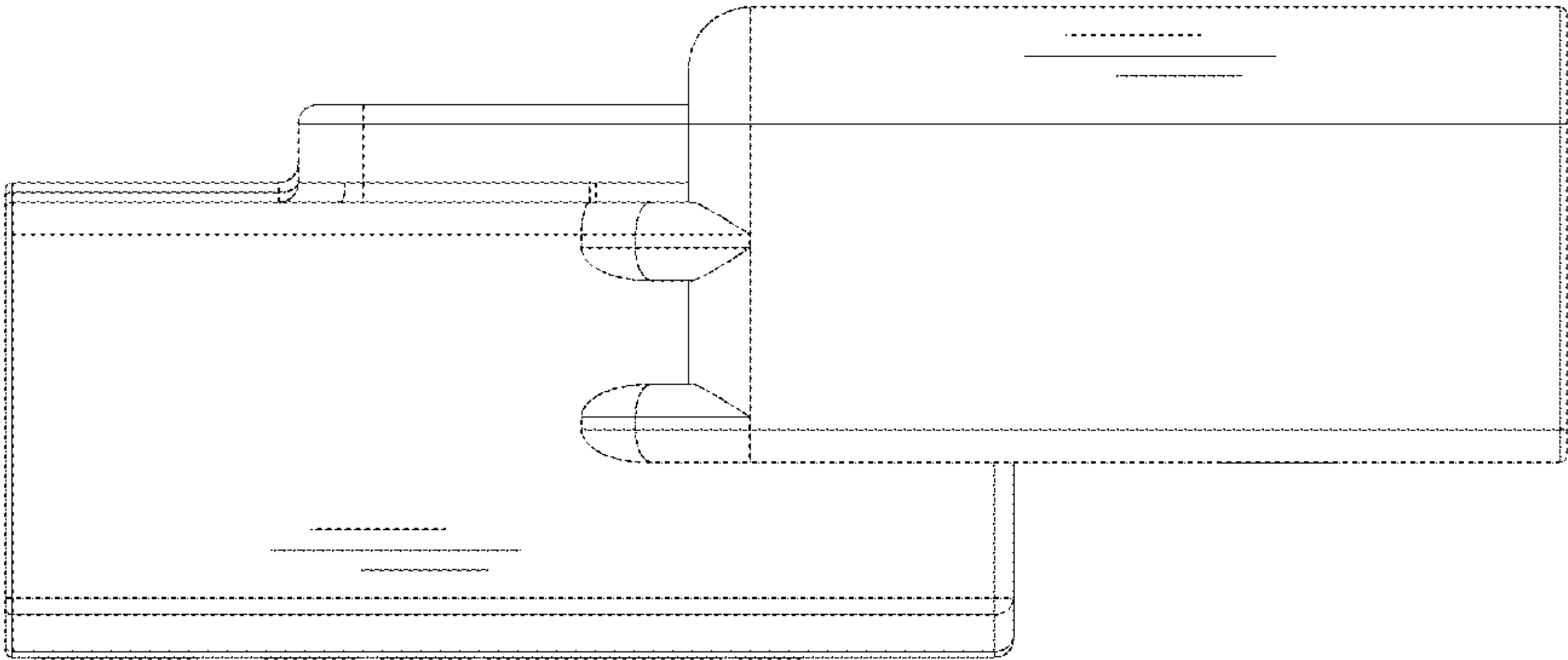


FIG. 19

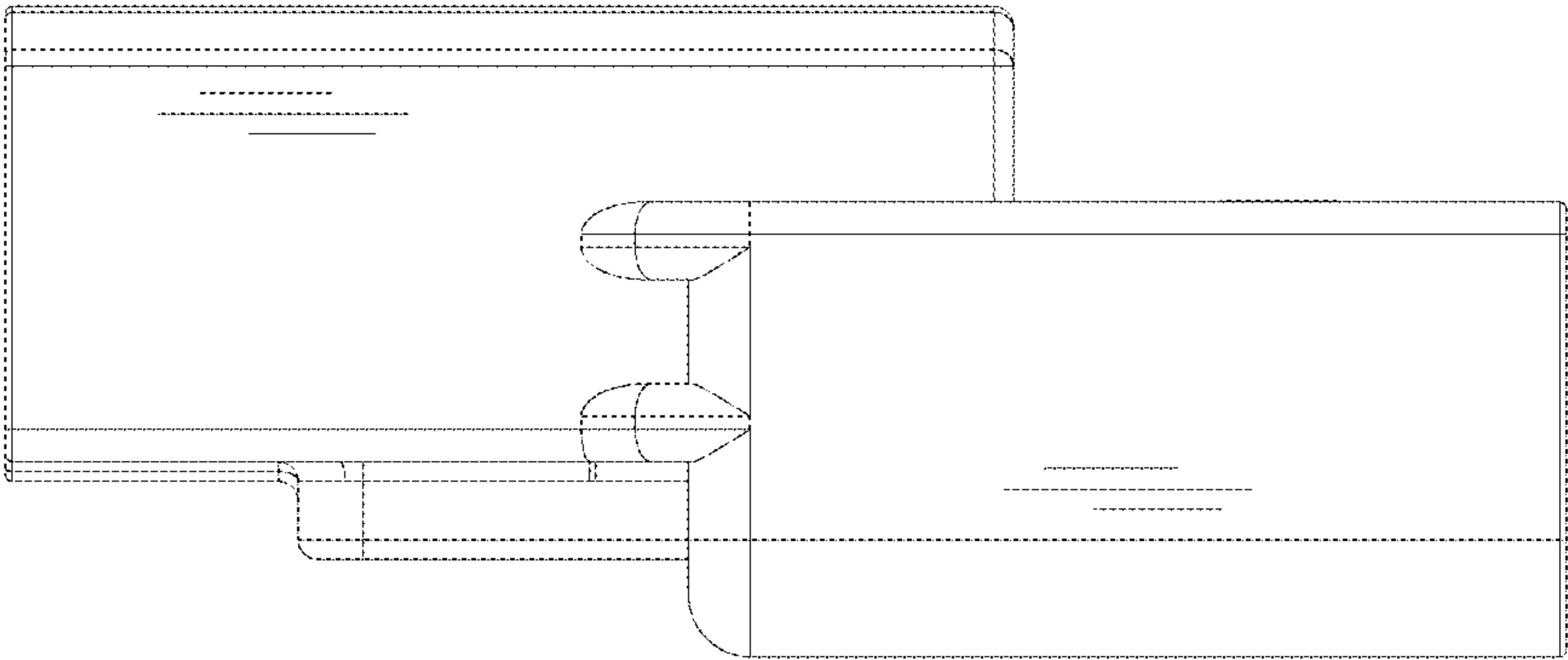


FIG. 20

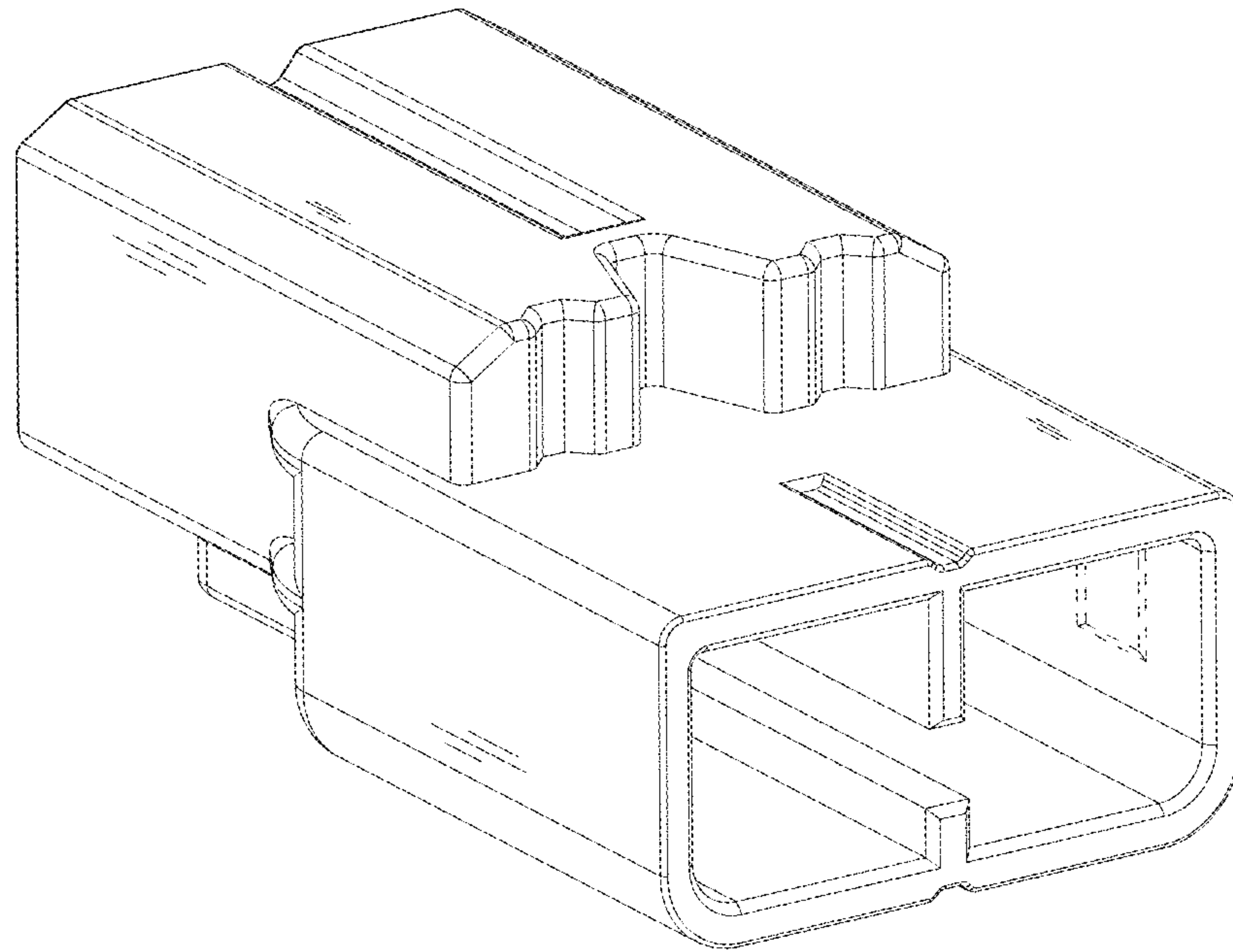


FIG. 21