



US0D1053135S

(12)

United States Design Patent

Eda et al.

(10)

Patent No.:

US D1,053,135 S

(45)

Date of Patent:

** Dec. 3, 2024

(54) COIL COMPONENT

(71) Applicant: TDK CORPORATION, Tokyo (JP)

(72) Inventors: Hokuto Eda, Tokyo (JP); Hitoshi Ohkubo, Tokyo (JP); Masazumi Arata, Tokyo (JP); Masataro Saito, Tokyo (JP); Kohei Takahashi, Tokyo (JP); Takamasa Iwasaki, Tokyo (JP)

(73) Assignee: TDK CORPORATION, Tokyo (JP)

(**) Term: 15 Years

(21) Appl. No.: 29/821,080

(22) Filed: Dec. 27, 2021

(30) Foreign Application Priority Data

Jun. 29, 2021 (JP) 2021-014123 D

(51) LOC (14) Cl. 13-02

(52) U.S. Cl. D13/117

(58) Field of Classification Search

USPC D13/101, 117, 118, 133, 179, 183, 184; D15/138

CPC H01F 27/04; H01F 27/24; H01F 27/28; H01F 27/29; H01F 27/30; H01F 27/34; H01F 27/245; H01F 27/255; H01F 27/292; H01F 27/306; H01F 27/2804; H01F 27/2823; H01F 27/2847; H01F 17/043; H01F 17/045; H01F 37/00; H02M 3/28

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

6,114,932 A * 9/2000 Wester H01F 27/29 336/200

6,373,366 B1 * 4/2002 Sato H01F 27/292 336/200

D586,745 S * 2/2009 Shibata D13/117

D662,054 S * 6/2012 Urano D13/117

9,490,061 B2 * 11/2016 Park H01F 27/255

D778,837 S * 2/2017 Yamada D13/117

9,728,319 B2 * 8/2017 Kawashima H01F 30/00

10,014,100 B2 * 7/2018 Nakamura H01F 17/04

2014/0220364 A1 * 8/2014 Umemoto C03C 8/22 428/434

2016/0225514 A1 * 8/2016 Cheng H01F 41/061

2017/0186527 A1 * 6/2017 Kwon H01F 17/0033

2018/0130597 A1 * 5/2018 Komaya H01F 17/045

(Continued)

Primary Examiner — Derrick E Holland

(74) Attorney, Agent, or Firm — Oliff PLC

(57) CLAIM

The ornamental design for a coil component as shown and described.

DESCRIPTION

FIG. 1 is a front view of a coil component, showing the new design;

FIG. 2 is a rear view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a bottom plan view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a perspective view thereof;

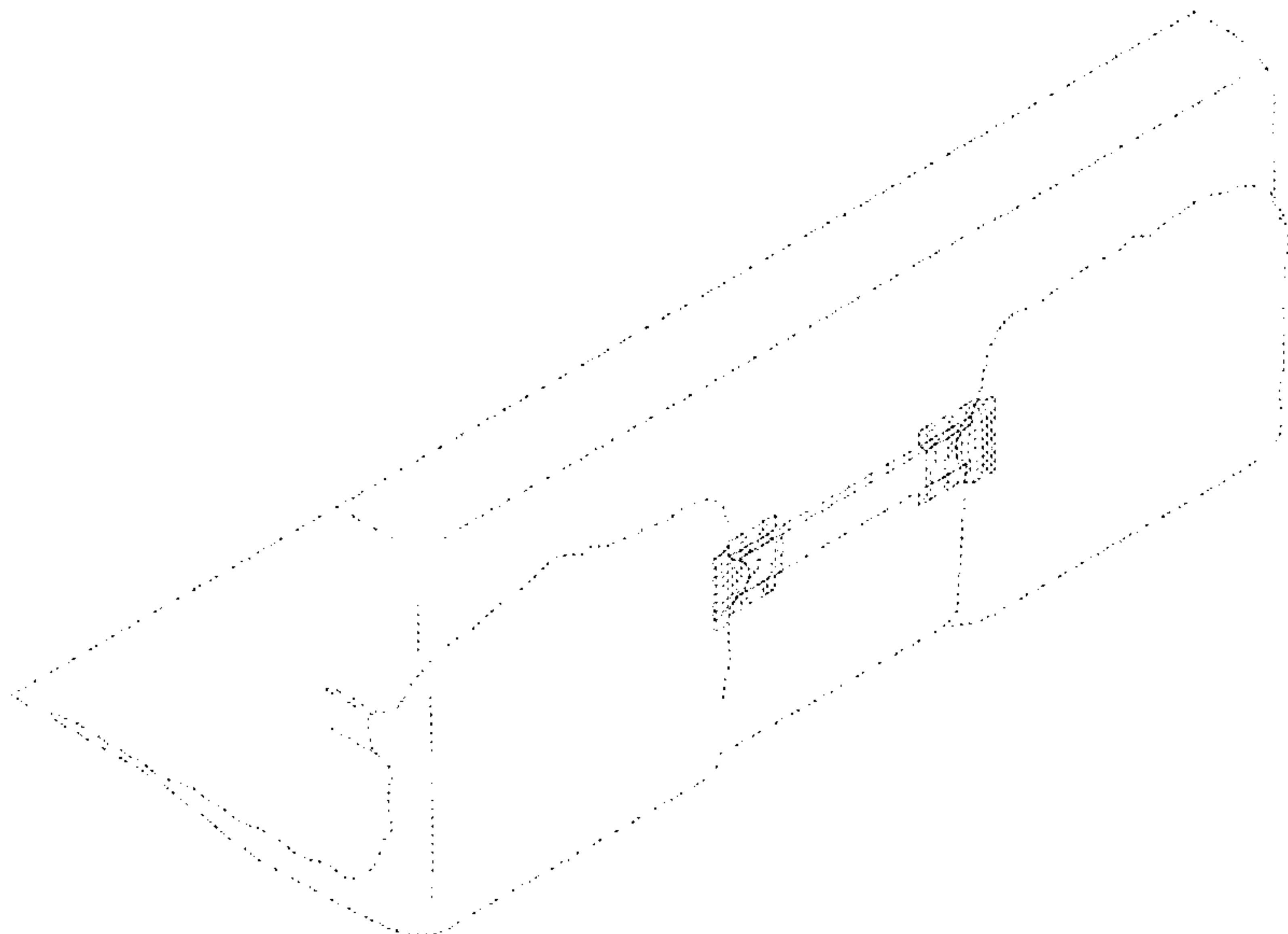
FIG. 8 is an enlarged sectional view taken along the line 8-8 of FIG. 1 and FIG. 3;

FIG. 9 is an enlarged sectional view taken along the line 9-9 of FIG. 1 and FIG. 3; and,

FIG. 10 is an enlarged view showing the portion of FIG. 7 defined by the line 10-10.

The alternating long and short dashed lines indicate bounds of the claimed design and form no part thereof. The features shown in broken lines are included to illustrate portions of the coil component and form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

2018/0315542 A1* 11/2018 Hayashi H05K 1/111
2021/0134517 A1* 5/2021 Yokoyama H01F 27/324

* cited by examiner

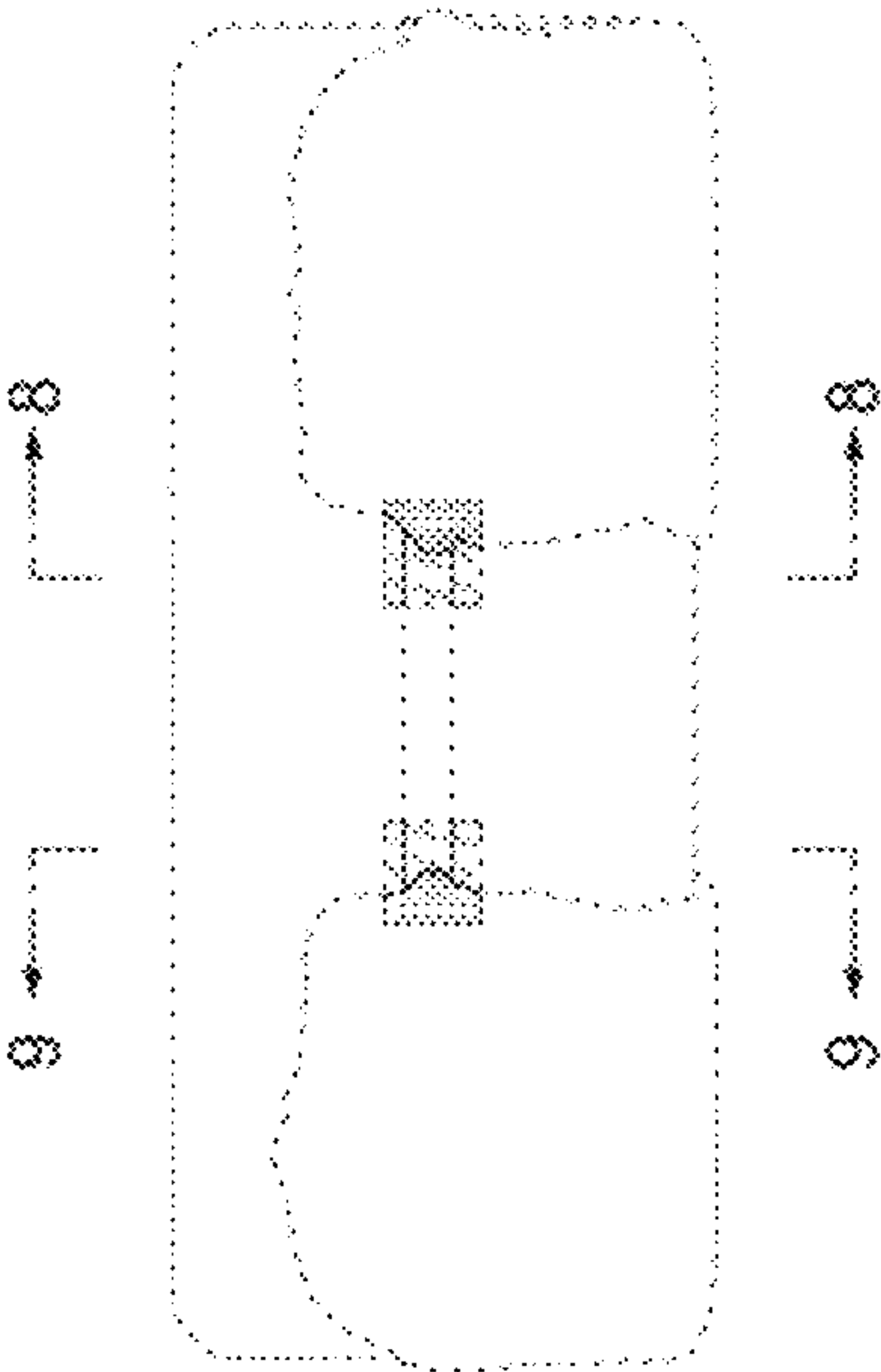


FIG. 1

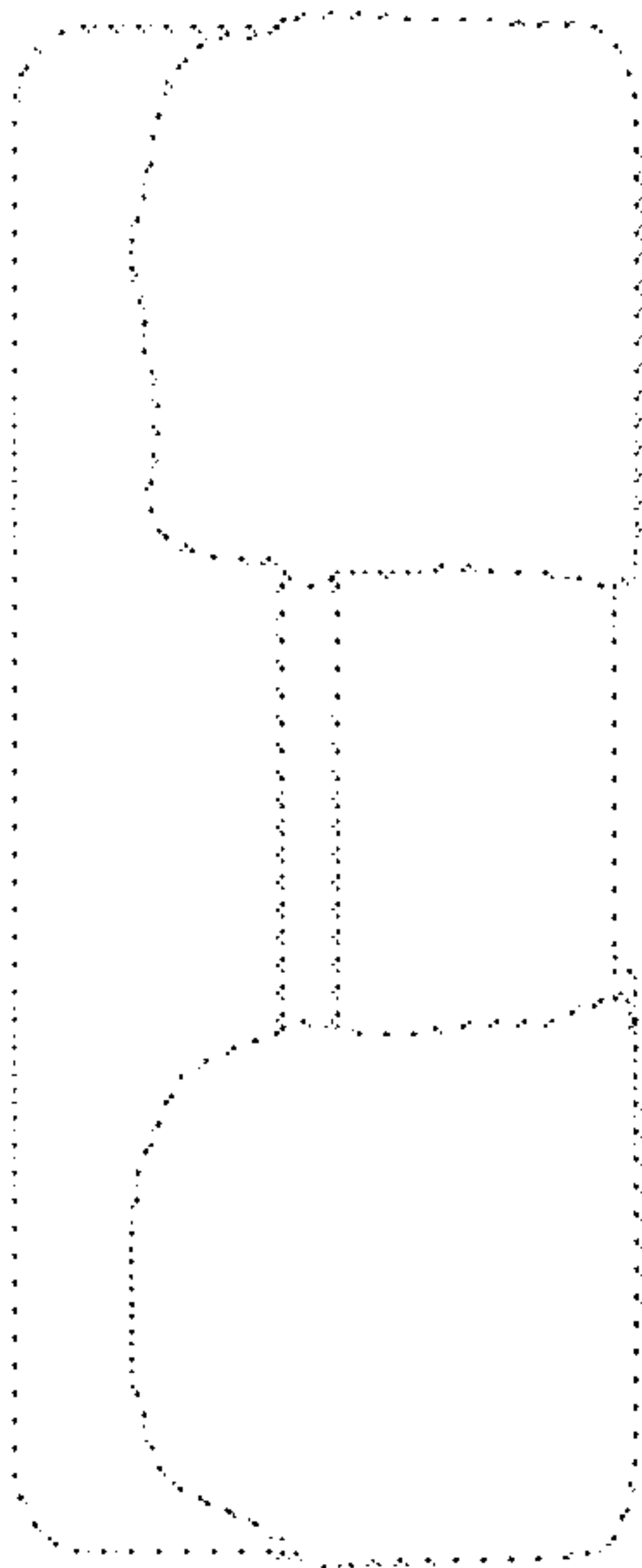


FIG. 2



FIG. 3

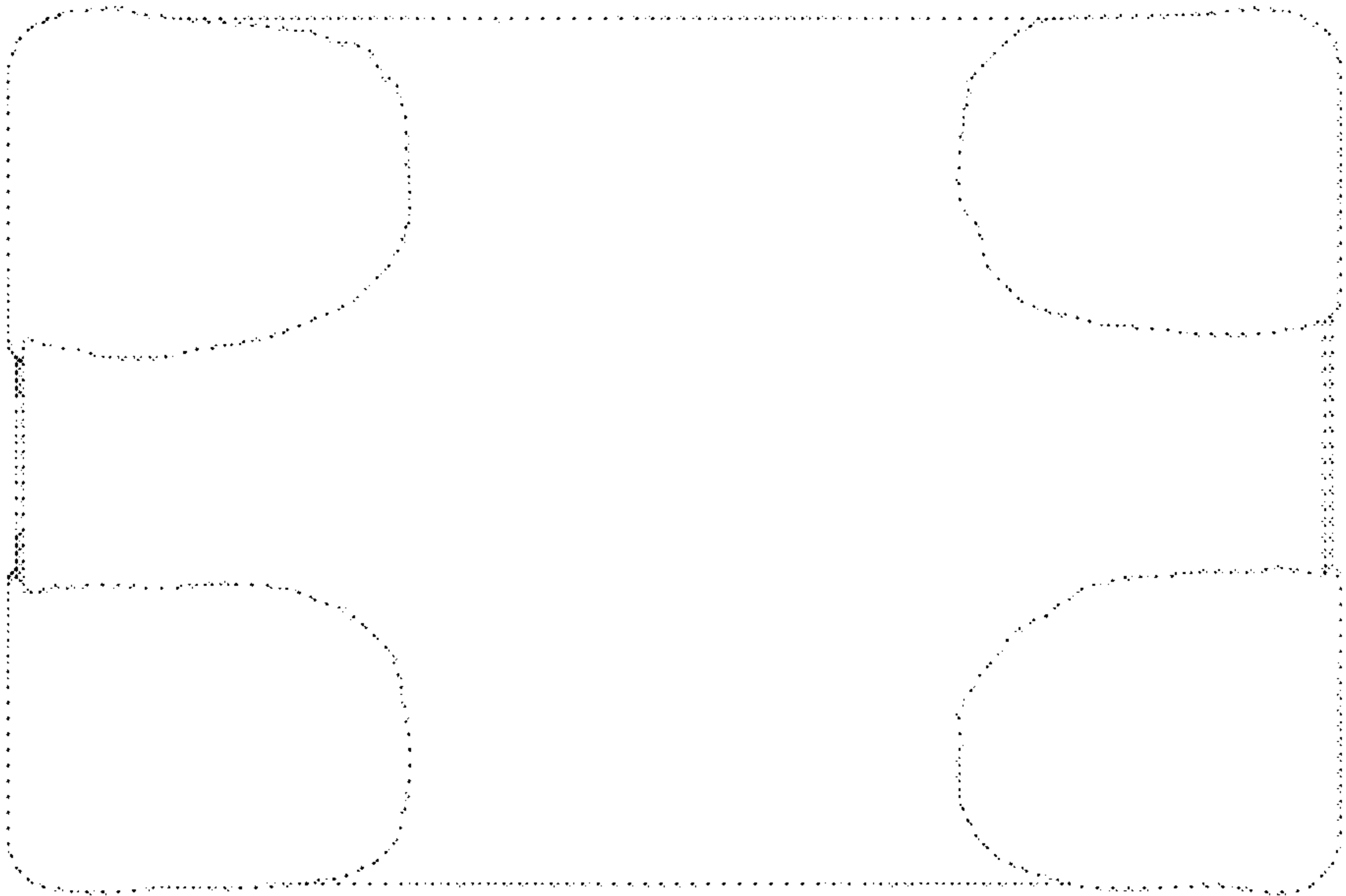


FIG. 4

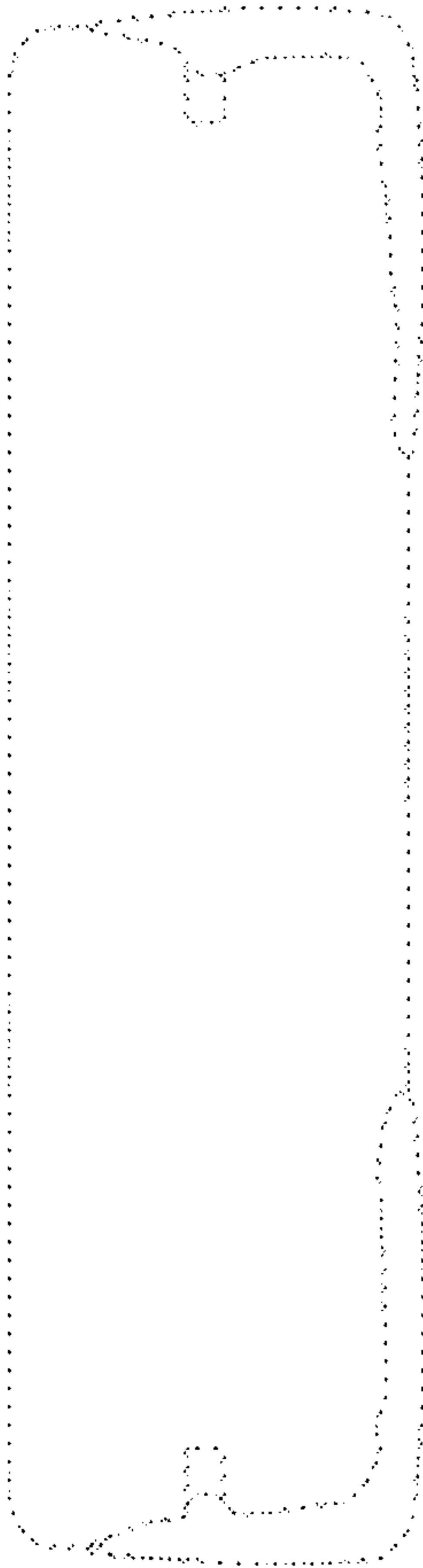


FIG. 5

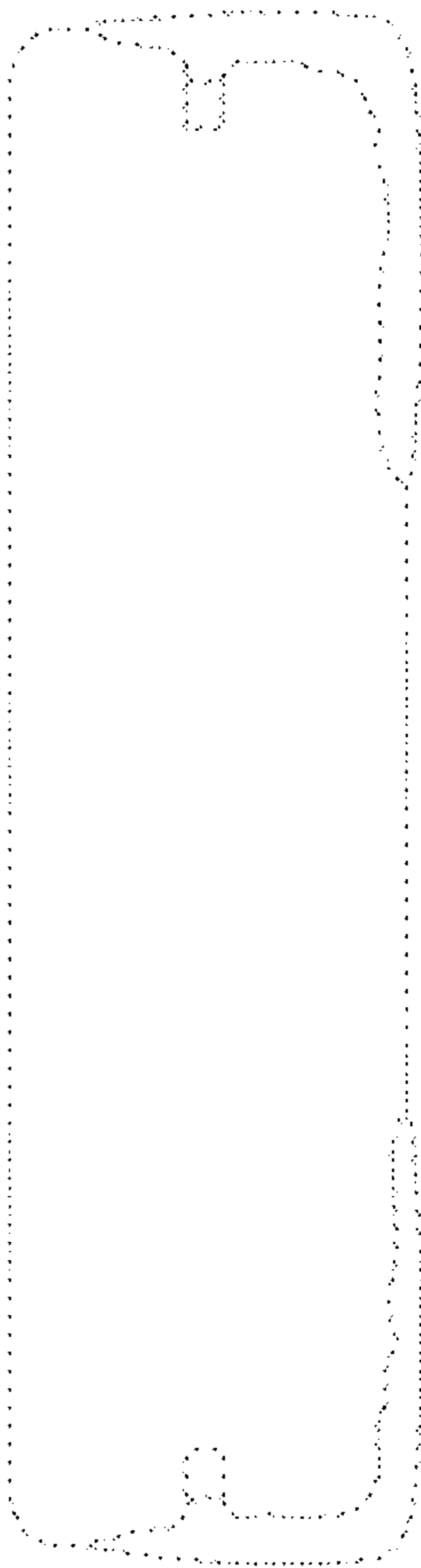


FIG. 6

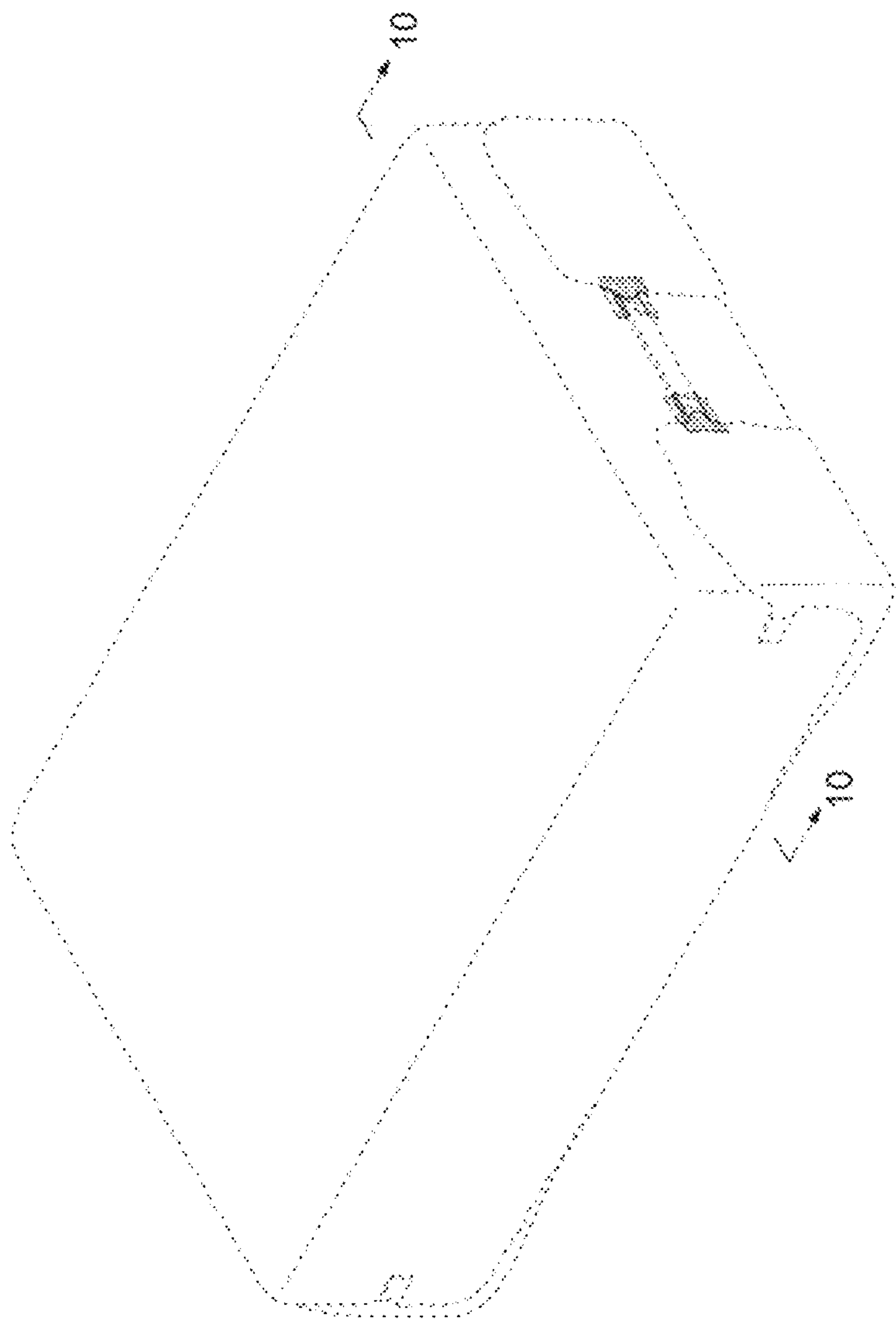


FIG. 7

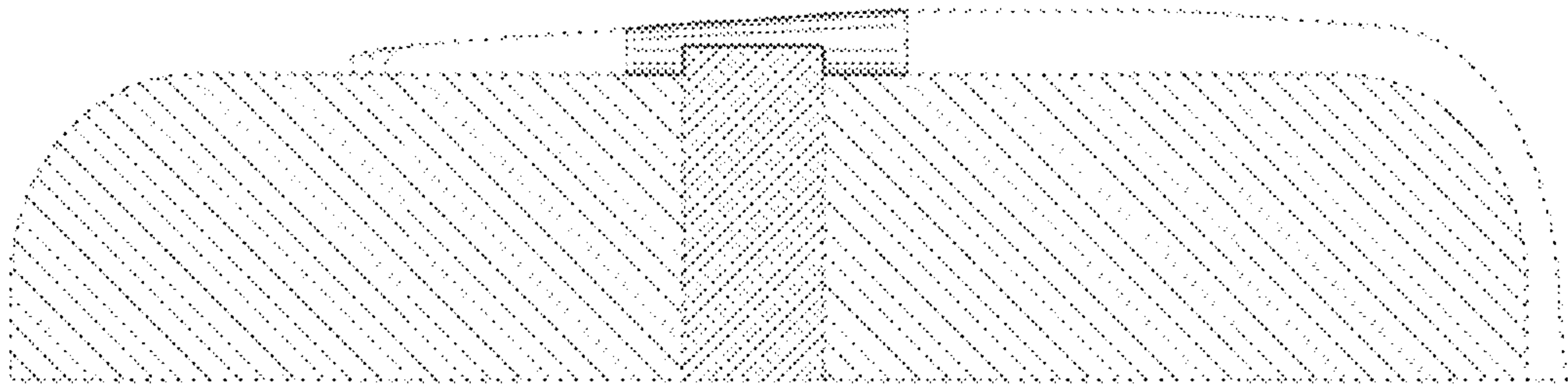


FIG. 8

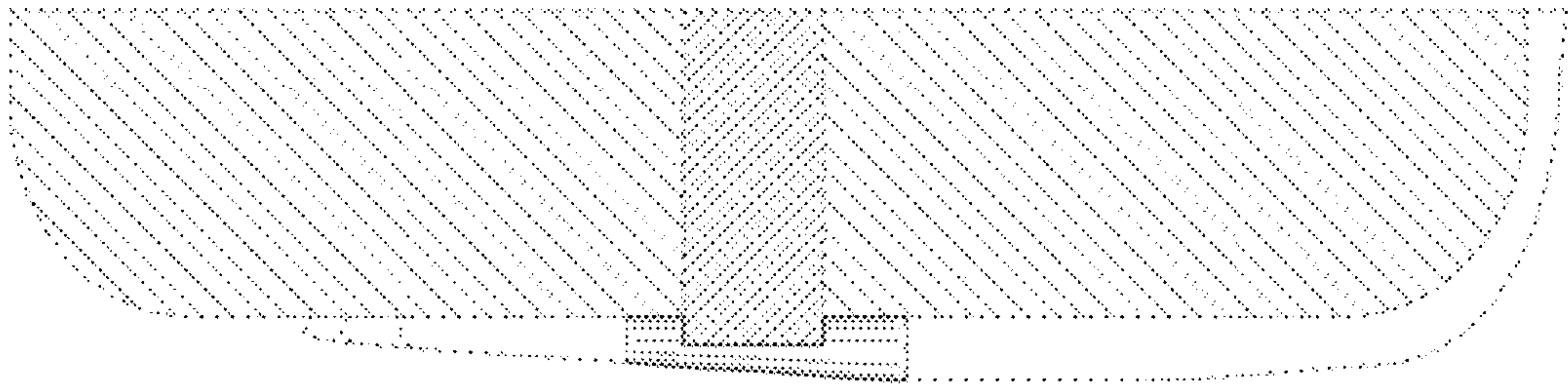


FIG. 9

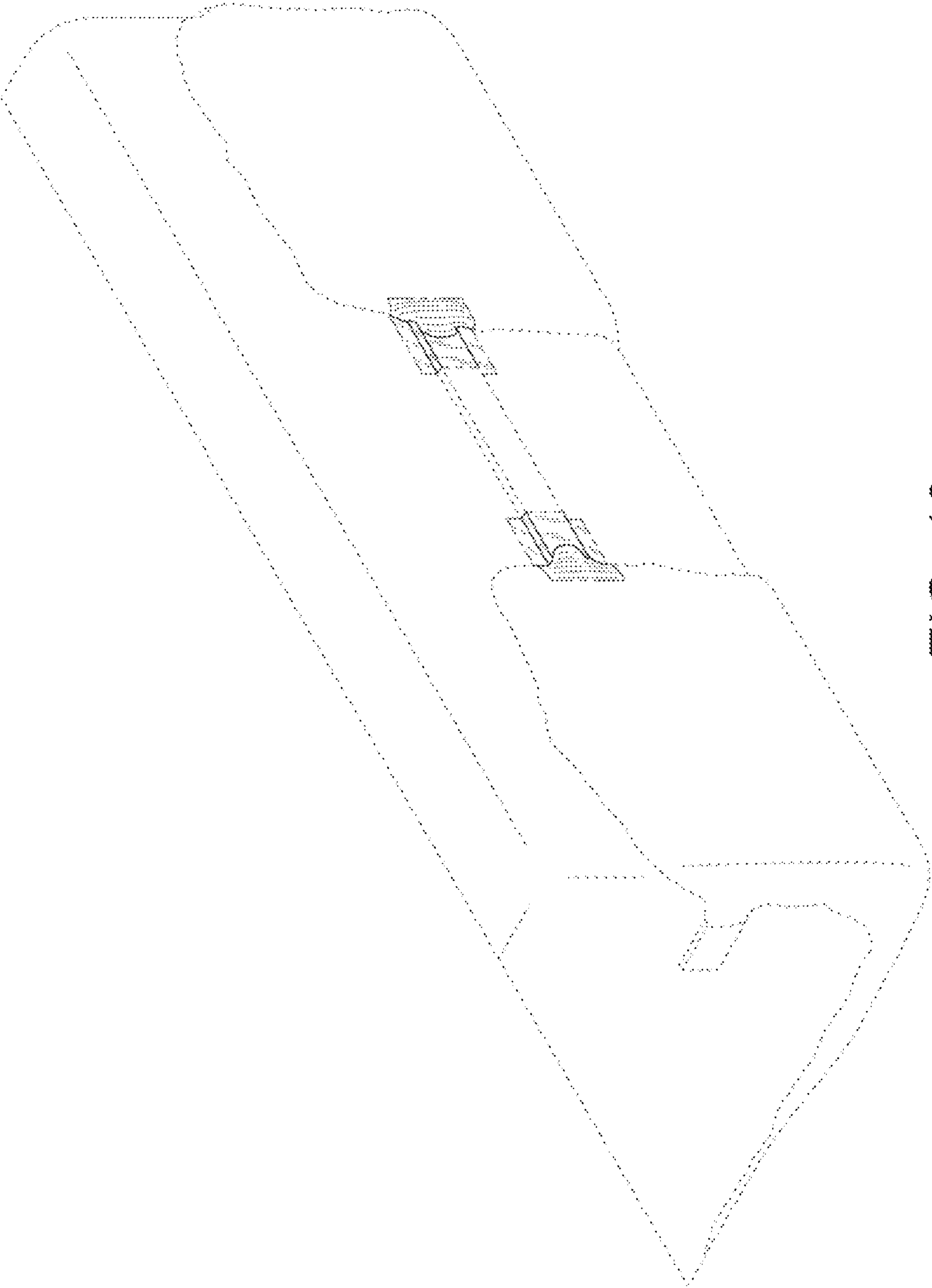


FIG. 10