



US00D842813S

(12) **United States Design Patent**
Yayoshi

(10) **Patent No.:** **US D842,813 S**
(45) **Date of Patent:** **** Mar. 12, 2019**

(54) **ELECTRICAL CONNECTOR**

OTHER PUBLICATIONS

- (71) Applicant: **DAI-ICHI SEIKO CO., LTD.**,
Kyoto-shi (JP)
- (72) Inventor: **Tadamichi Yayoshi**, Machida (JP)
- (73) Assignee: **DAI-ICHI SEIKO CO., LTD.**,
Kyoto-shi (JP)
- (**) Term: **15 Years**

U.S. Office Action for U.S. Appl. No. 29/595,823, dated Mar. 29, 2018, 9pg.

Primary Examiner — Angela J Lee
Assistant Examiner — Shawn T Gingrich
(74) *Attorney, Agent, or Firm* — Oblon, McClelland,
Maier & Neustadt, L.L.P.

(57) **CLAIM**

The ornamental design for an electrical connector, as shown and described.

(21) Appl. No.: **29/595,833**

DESCRIPTION

(22) Filed: **Mar. 2, 2017**

(30) **Foreign Application Priority Data**

Sep. 7, 2016 (JP) 2016-019339

(51) **LOC (11) Cl.** **13-03**

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

(58) **Field of Classification Search**
USPC D13/118, 120, 123, 133, 146, 147, 149,
D13/154, 173, 184, 199; D14/432, 433,
D14/435, 435.1, 436, 437, 438
CPC H01R 12/00; H01R 12/50; H01R 12/52;
H01R 12/57; H01R 12/62; H01R 12/65;
H01R 12/70; H01R 12/71; H01R 12/73;
H01R 13/02; H01R 13/04; H01R 13/52;
H01R 13/62; H01R 13/627; H01R 13/65;
H01R 24/00; H01R 24/28

See application file for complete search history.

FIG. 1 is a front elevational view of an electrical connector;
FIG. 2 is a rear elevational view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a right side elevational view thereof;
FIG. 6 is a left side elevational view thereof;
FIG. 7 is a front, top, and left side perspective view thereof;
FIG. 8 is an enlarged cross-sectional view along the line 8-8
in FIG. 1;
FIG. 9 is an enlarged cross-sectional view along the line 9-9
in FIG. 1;
FIG. 10 is an enlarged cross-sectional view along the line
10-10 in FIG. 1;
FIG. 11 is an enlarged view showing a portion of FIG. 3
defined by line 11-11;
FIG. 12 is an enlarged view showing a portion of FIG. 7
defined by line 12-12;
FIG. 13 is an enlarged view showing a portion of FIG. 7
defined by line 13-13; and,
FIG. 14 is an enlarged cross-sectional view along the line
14-14 in FIG. 11.

(56) **References Cited**

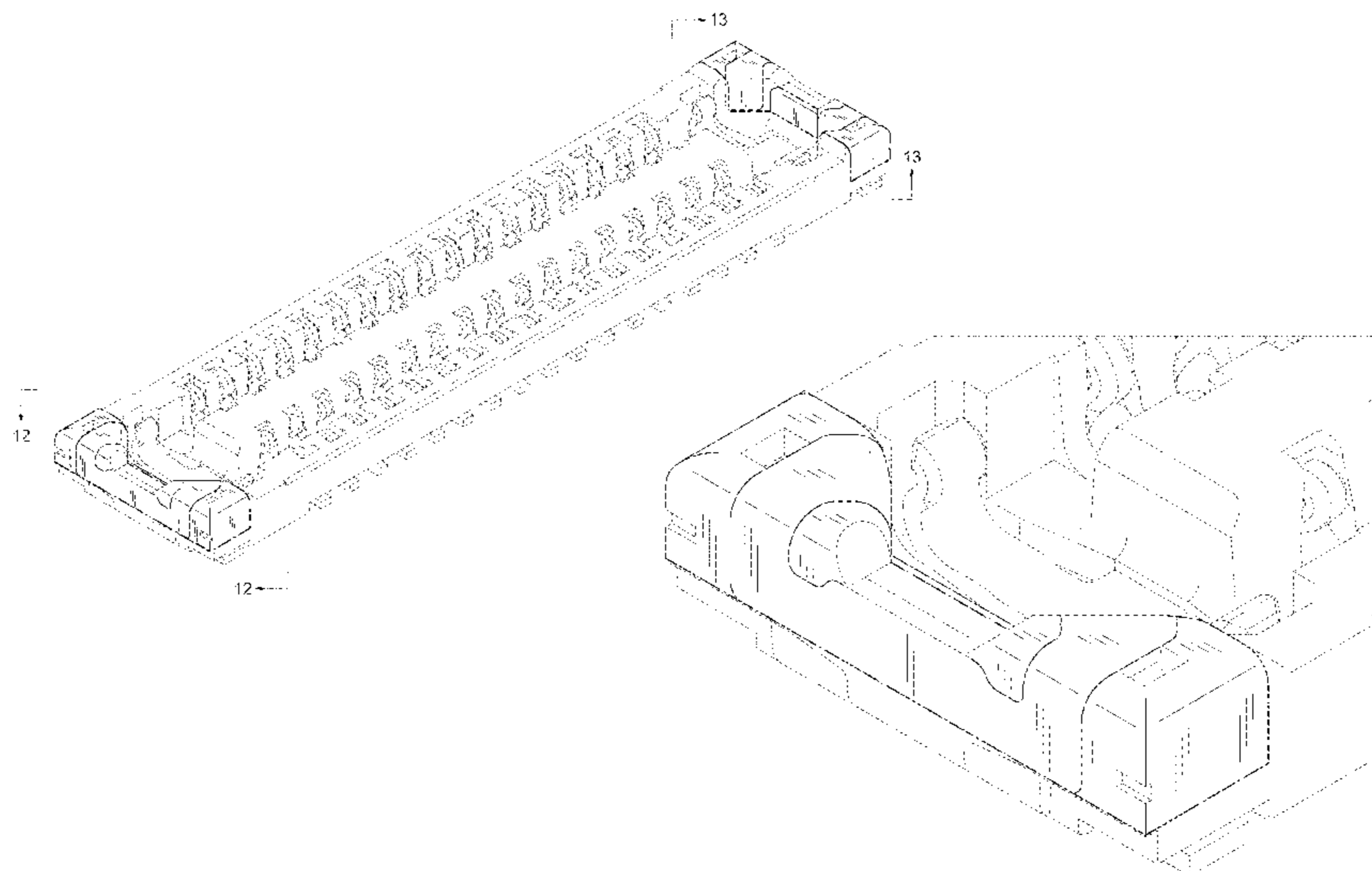
U.S. PATENT DOCUMENTS

- D539,225 S * 3/2007 Kishi D13/147
- D540,263 S 4/2007 Kishi

(Continued)

The evenly-dashed broken lines in the drawings illustrate the portions of the design that form no part of the claim. The dot-dash broken lines in the drawings represent the bounds of the claimed subject matter, the dot-dash lines, themselves forming no part thereof.

1 Claim, 14 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D578,481 S 10/2008 Lee
 D582,858 S * 12/2008 Hoshino D13/147
 D598,863 S 8/2009 Hoshino
 D695,692 S * 12/2013 Takenaga D13/147
 D720,298 S * 12/2014 Takenaga D13/147
 D722,974 S * 2/2015 Ueda D13/147
 D723,471 S * 3/2015 Miyazaki D13/147
 D735,674 S * 8/2015 Miyazaki D13/147
 D739,825 S 9/2015 Omodachi
 D774,462 S 12/2016 Omodachi
 D795,813 S * 8/2017 Goto D13/147
 D797,677 S * 9/2017 Ozeki D13/147
 D811,344 S * 2/2018 Ozeki D13/147
 9,887,473 B2 2/2018 Lee
 2006/0264074 A1 * 11/2006 Chang H01R 12/57
 439/74
 2008/0268711 A1 * 10/2008 Miyazaki H01R 13/516
 439/626
 2010/0221928 A1 9/2010 Sato

2013/0012074 A1 1/2013 Mashiyama
 2013/0137304 A1 * 5/2013 Huang H01R 12/716
 439/626
 2013/0137307 A1 * 5/2013 Huang H01R 12/716
 439/660
 2013/0137308 A1 * 5/2013 Chiang H01R 12/716
 439/660
 2015/0079818 A1 3/2015 Ozeki
 2015/0079853 A1 * 3/2015 Tsai H01R 12/716
 439/751
 2015/0140841 A1 5/2015 Watanabe
 2015/0207248 A1 * 7/2015 Takenaga H01R 12/716
 439/74
 2015/0214649 A1 7/2015 Lee
 2015/0270641 A1 9/2015 Omodachi
 2015/0380845 A1 * 12/2015 Goto H01R 12/73
 439/660
 2016/0141783 A1 5/2016 Hirakawa
 2016/0268715 A1 9/2016 Kodaira
 2017/0271813 A1 9/2017 Ge
 2018/0069331 A1 * 3/2018 Hirakawa H01R 12/57

* cited by examiner

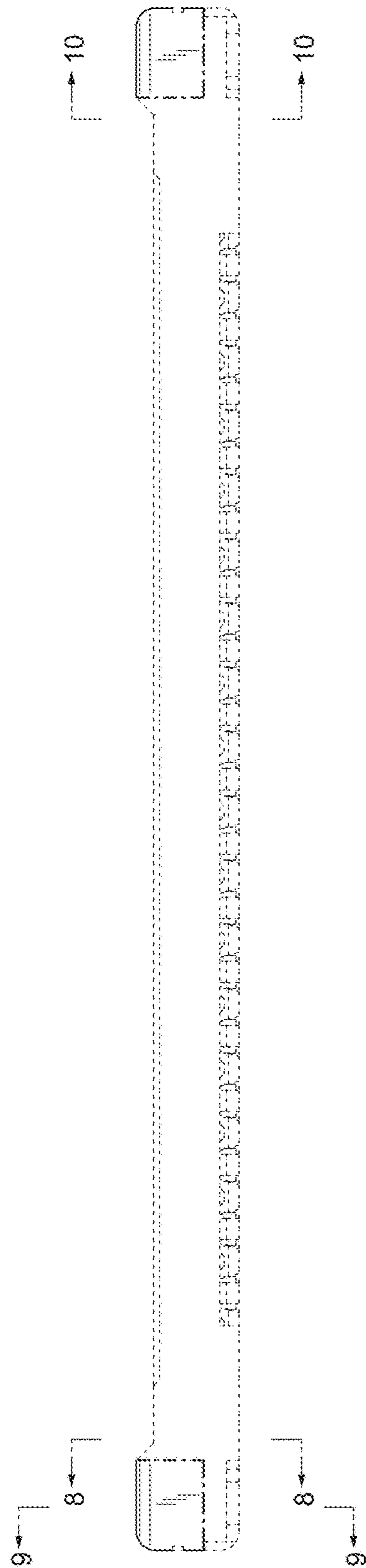


FIG. 1

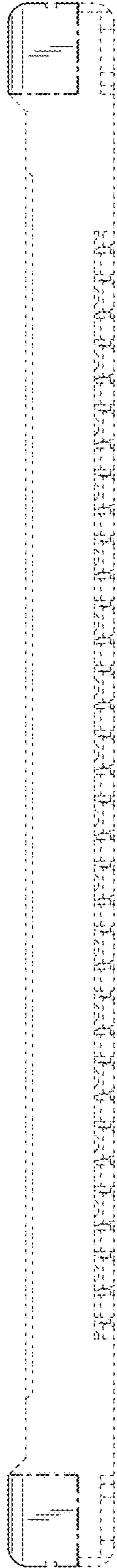


FIG. 2

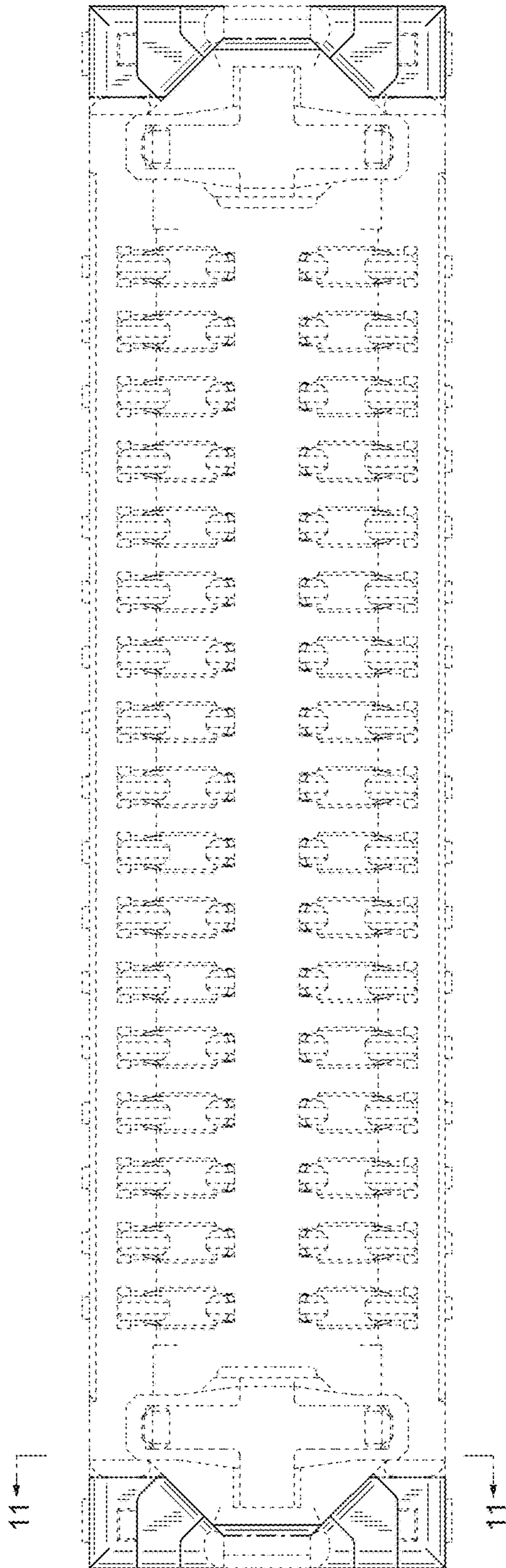


FIG. 3

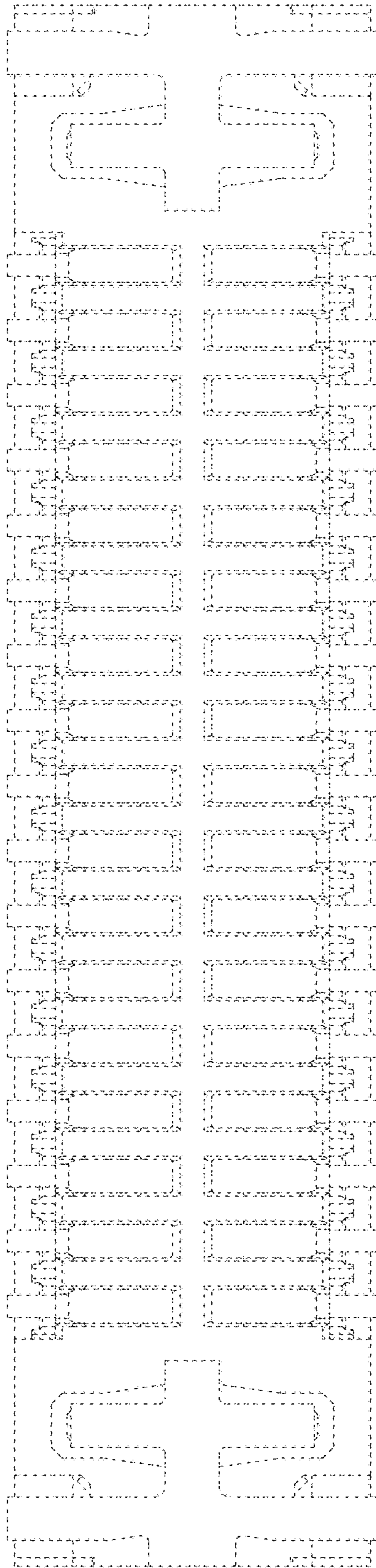


FIG. 4



FIG. 5

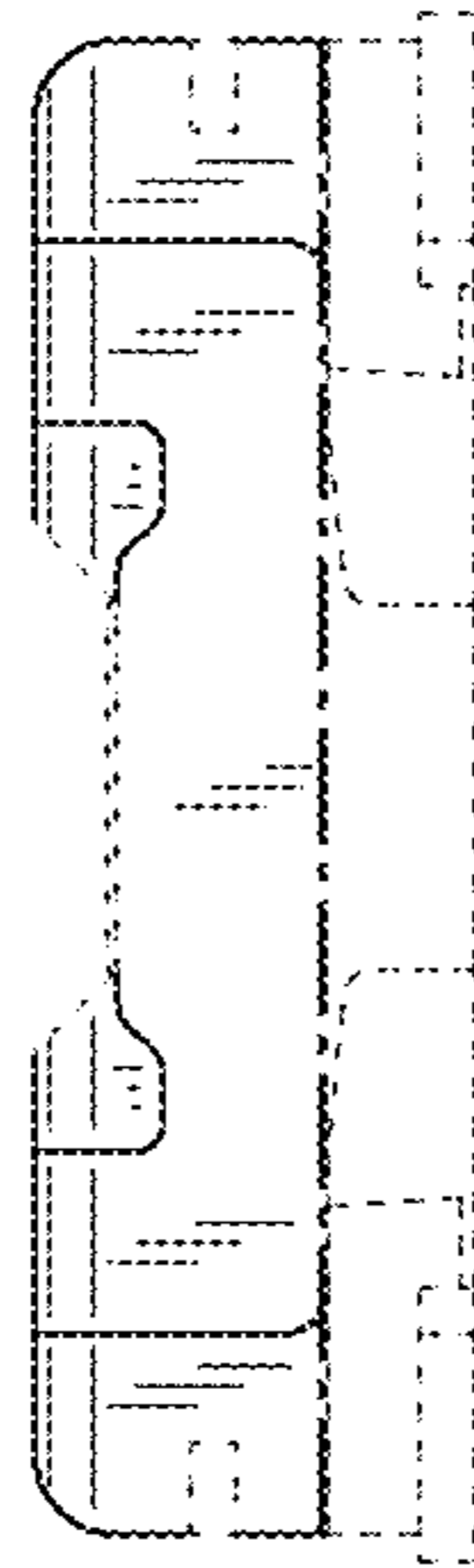


FIG. 6

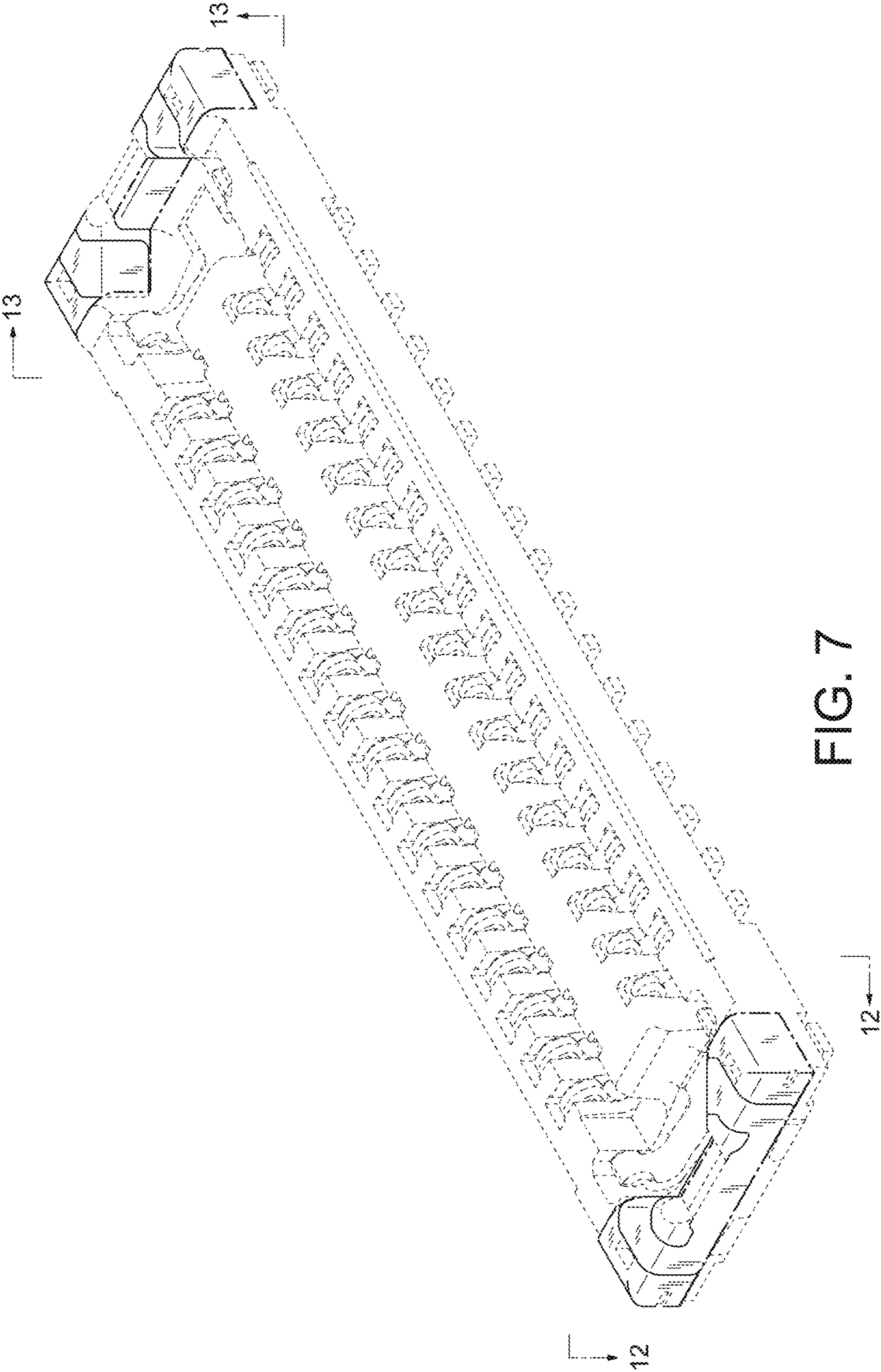


FIG. 7

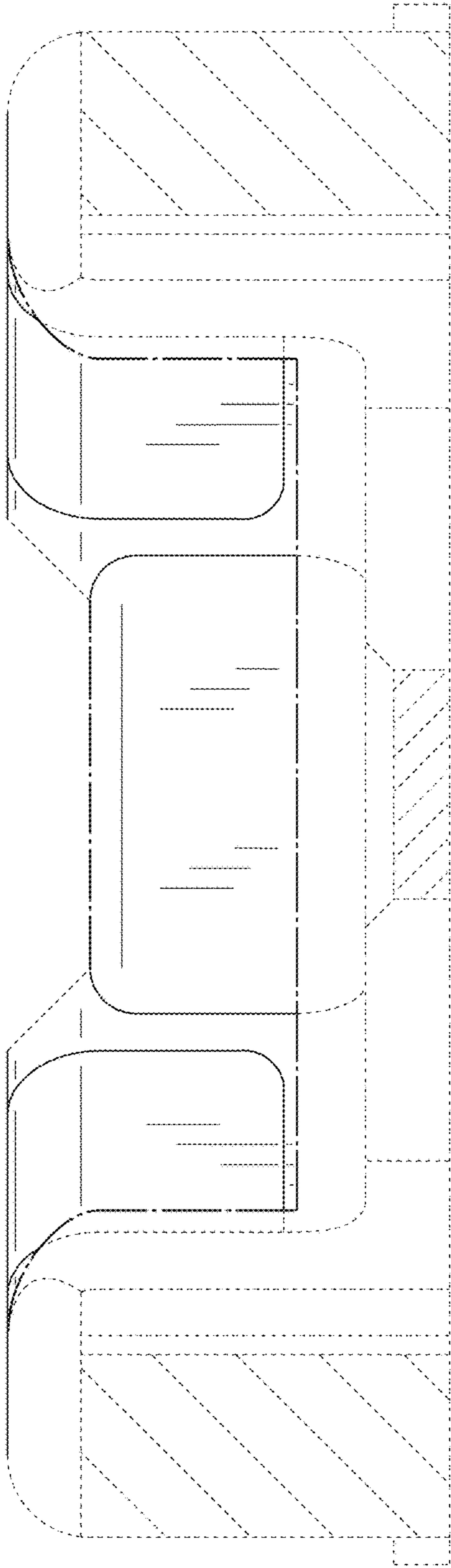


FIG. 8

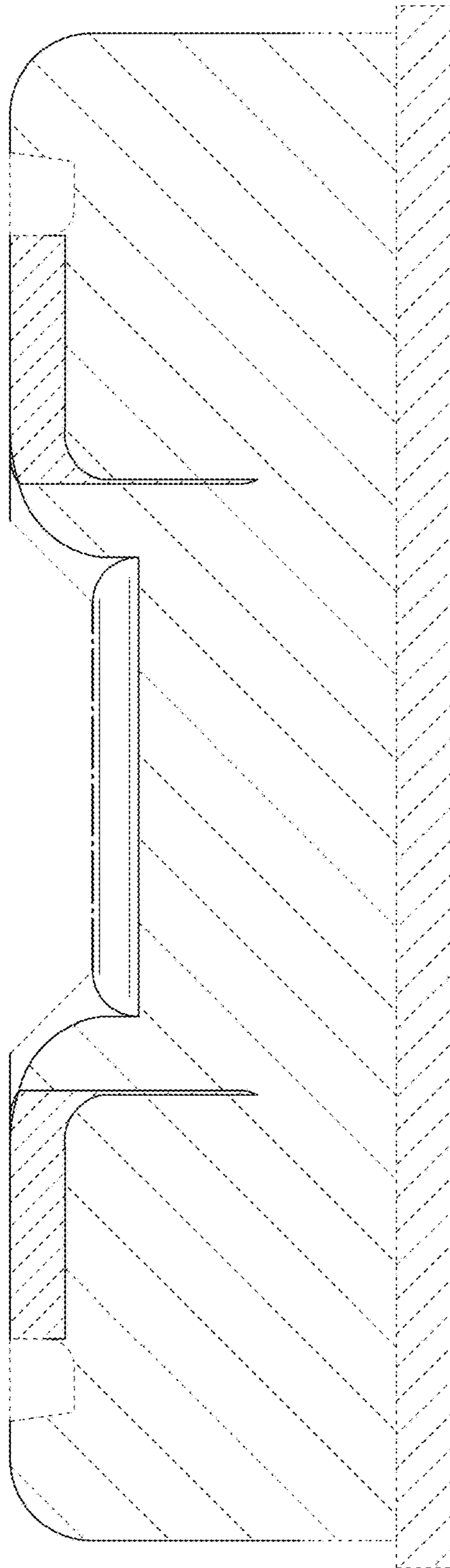


FIG. 9

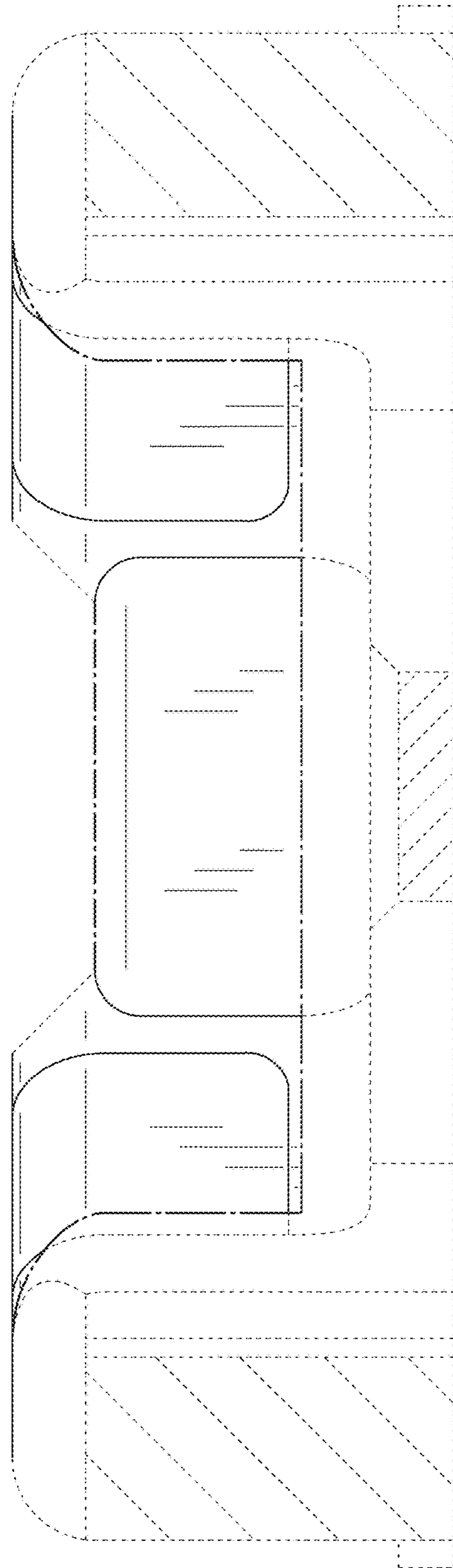


FIG. 10

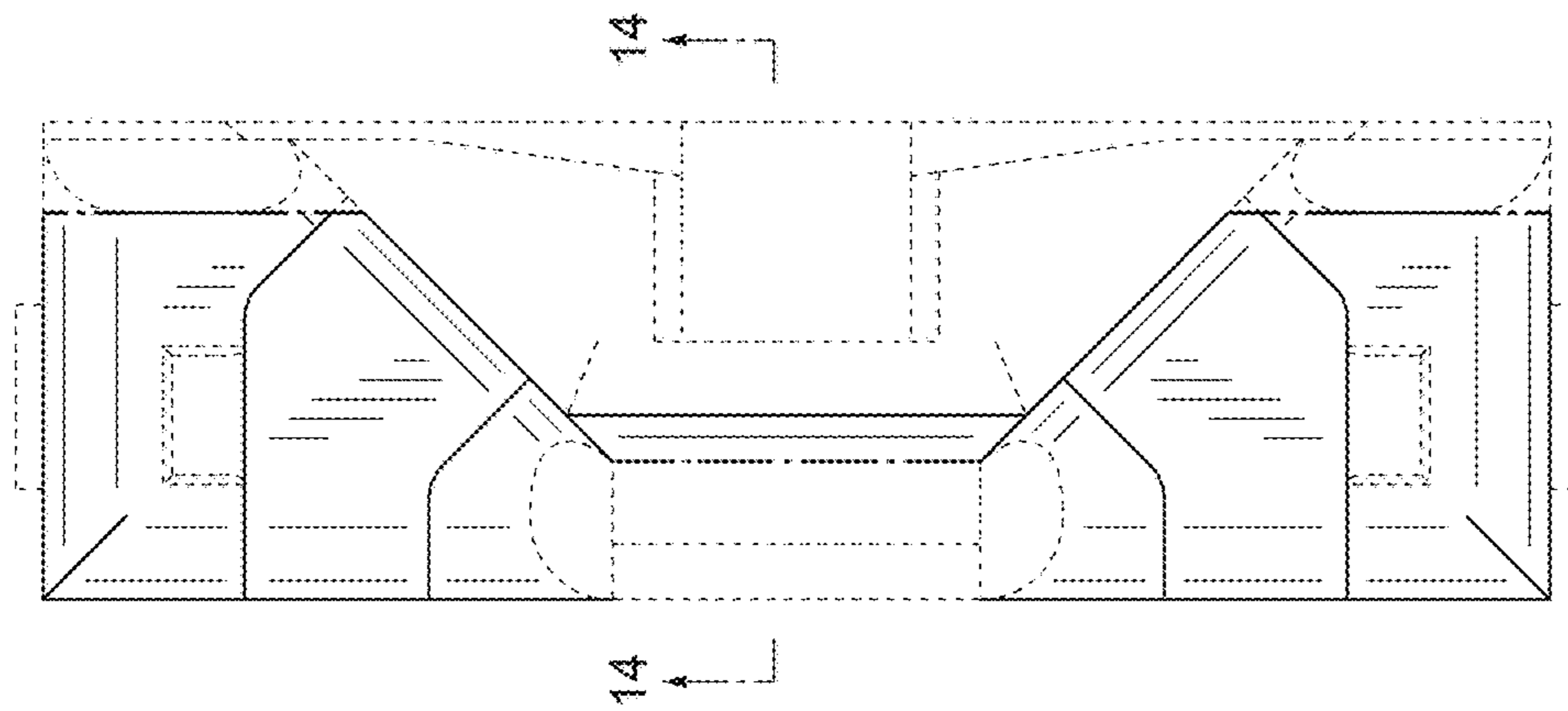


FIG. 11

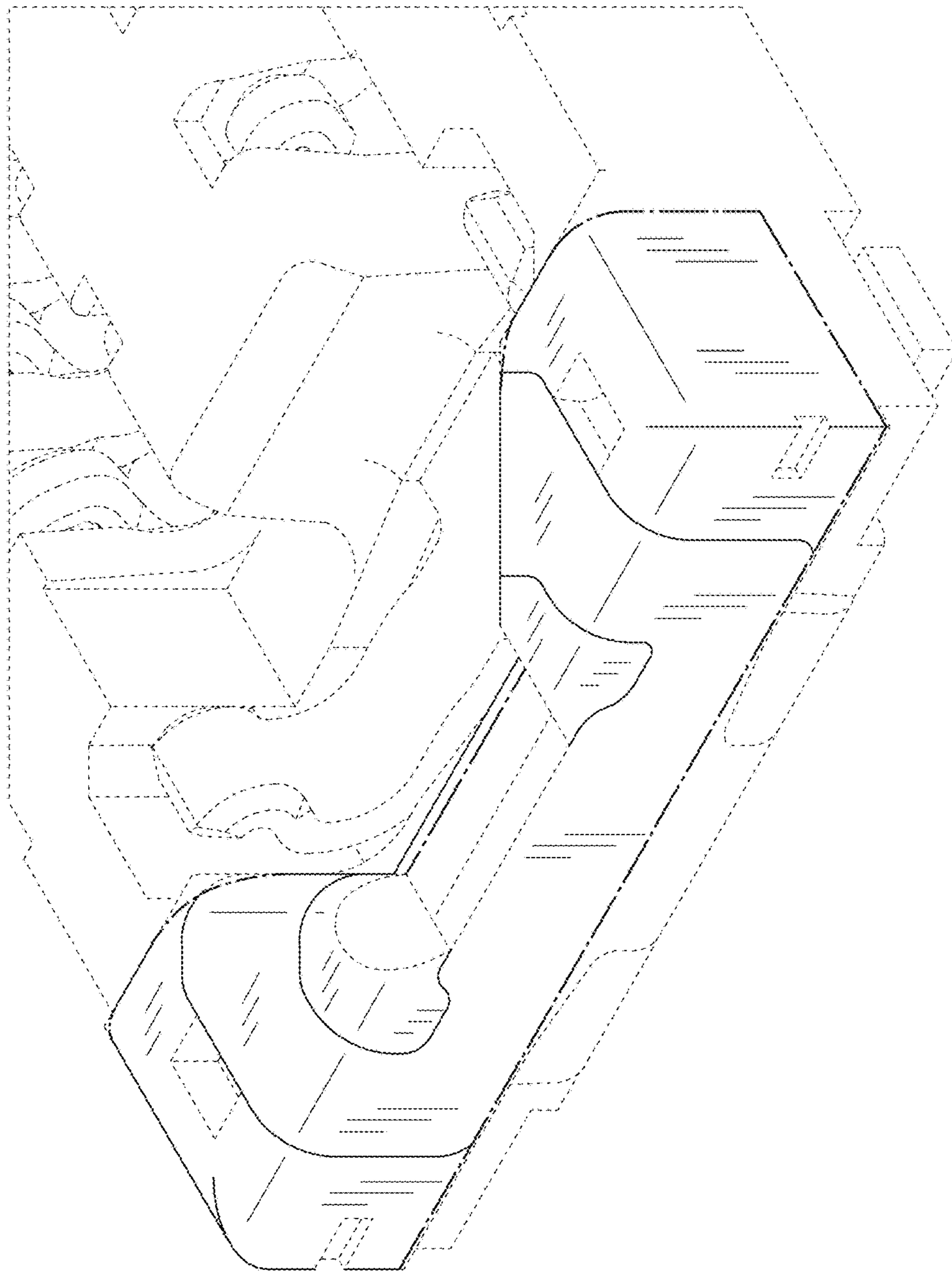


FIG. 12

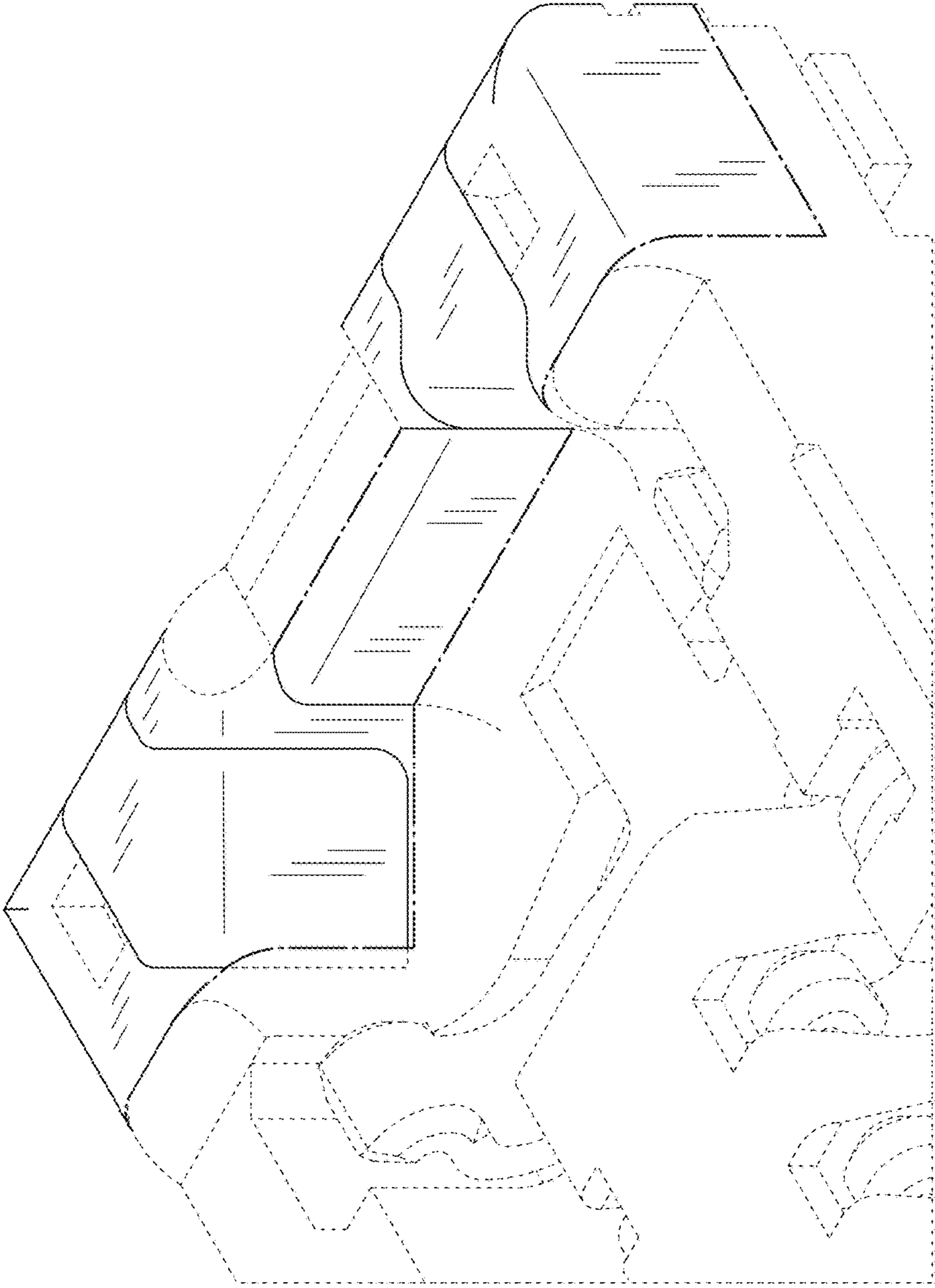


FIG. 13

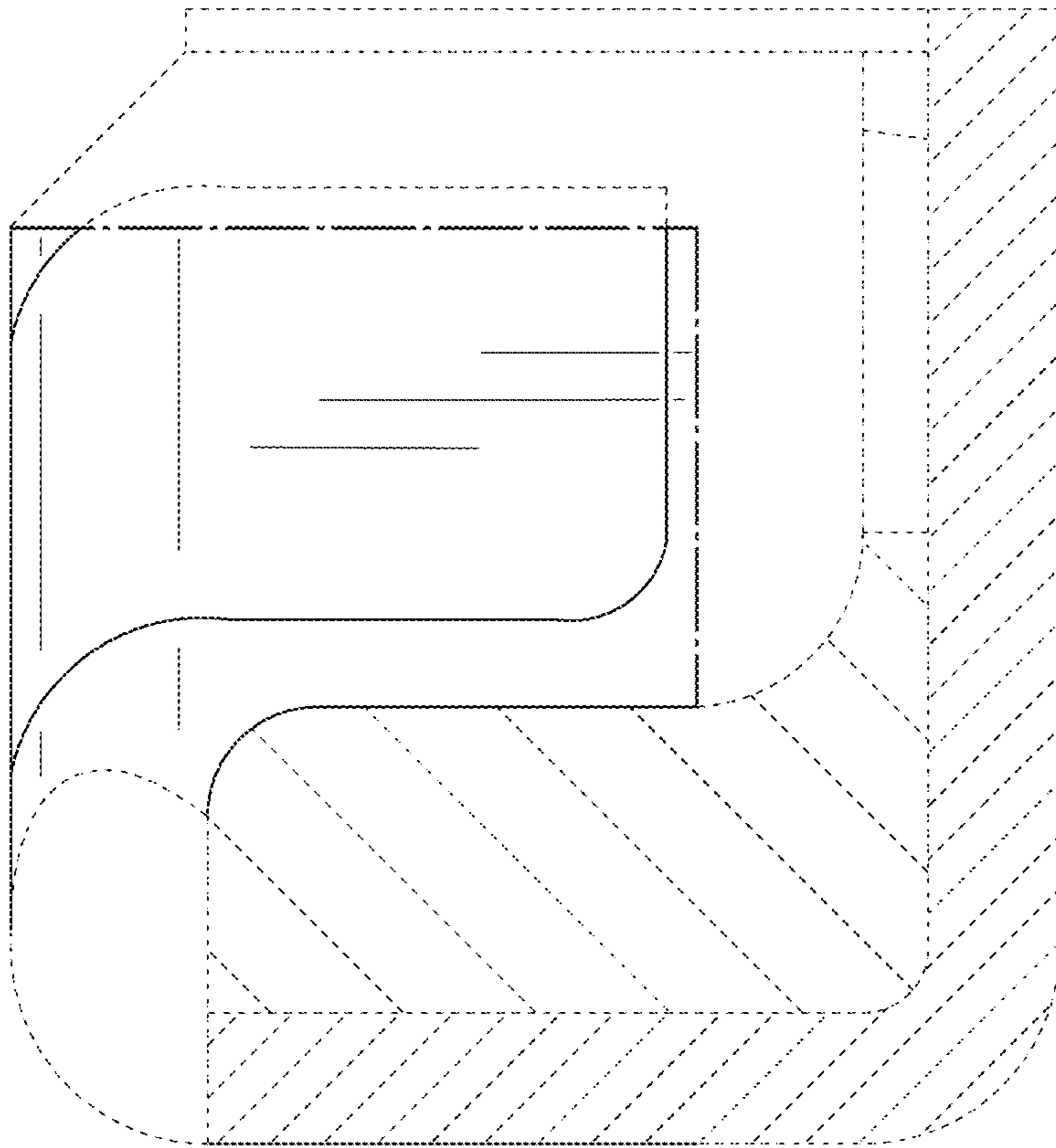


FIG. 14