



US0D1069741S

(12)

United States Design Patent

Chiu et al.

(10)

Patent No.:

US D1,069,741 S

(45)

Date of Patent:

** Apr. 8, 2025

- (54) FRONT OPENING UNIFIED POD
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- (72) Inventors: Ming-Chien Chiu, New Taipei (TW); Chia-Ho Chuang, New Taipei (TW); Kuo-Hua Lee, New Taipei (TW); Shu-Hung Lin, New Taipei (TW)
- (73) Assignee: GUDENG PRECISION INDUSTRIAL CO., LTD., New Taipei (TW)
- (**) Term: 15 Years
- (21) Appl. No.: 29/850,241
- (22) Filed: Aug. 18, 2022
- (30) Foreign Application Priority Data
- Mar. 3, 2022 (TW) 111301059

(51) LOC (15) Cl. 13-03

(52) U.S. Cl. D13/184

(58) Field of Classification Search

USPC D13/133, 199, 184; D3/272

(Continued)
- (56) References Cited
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(Continued)

handling/wafer-processing/300-mm-front-opening-unified-pods-%28foups%29/A300-FOUPs/p/A300FOUPs) (Year: 2021).*

(Continued)

Primary Examiner — April Rivas

(57) CLAIM

The ornamental design for a front opening unified pod, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a front opening unified pod showing my new design;

FIG. 2 is a front elevation view thereof;

FIG. 3 is a rear elevation view thereof;

FIG. 4 is a left side elevation view thereof;

FIG. 5 is a right side elevation view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is another perspective view to show a disassemble state of elements at the bottom thereof;

FIG. 9 is another perspective view to shown in environmental use that the front opening unified pod used with an expansion tube with its connecting element;

FIG. 10 is an enlarged view of a portion of FIG. 1;

FIG. 11 is an enlarged view of a portion of FIG. 1;

FIG. 12 is an enlarged view of a portion of FIG. 2;

FIG. 13 is an enlarged view of a portion of FIG. 2;

FIG. 14 is an enlarged view of a portion of FIG. 3;

FIG. 15 is an enlarged view of a portion of FIG. 3;

FIG. 16 is an enlarged view of a portion of FIG. 4;

FIG. 17 is an enlarged view of a portion of FIG. 4;

FIG. 18 is an enlarged view of a portion of FIG. 4;

FIG. 19 is an enlarged view of a portion of FIG. 5;

FIG. 20 is an enlarged view of a portion of FIG. 5;

FIG. 21 is an enlarged view of a portion of FIG. 5;

FIG. 22 is an enlarged view of a portion of FIG. 6;

FIG. 23 is an enlarged view of a portion of FIG. 6;

FIG. 24 is an enlarged view of a portion of FIG. 6;

FIG. 25 is an enlarged view of a portion of FIG. 7;

FIG. 26 is an enlarged view of a portion of FIG. 7;

FIG. 27 is an enlarged view of a portion of FIG. 8;

FIG. 28 is an enlarged view of a portion of FIG. 8;

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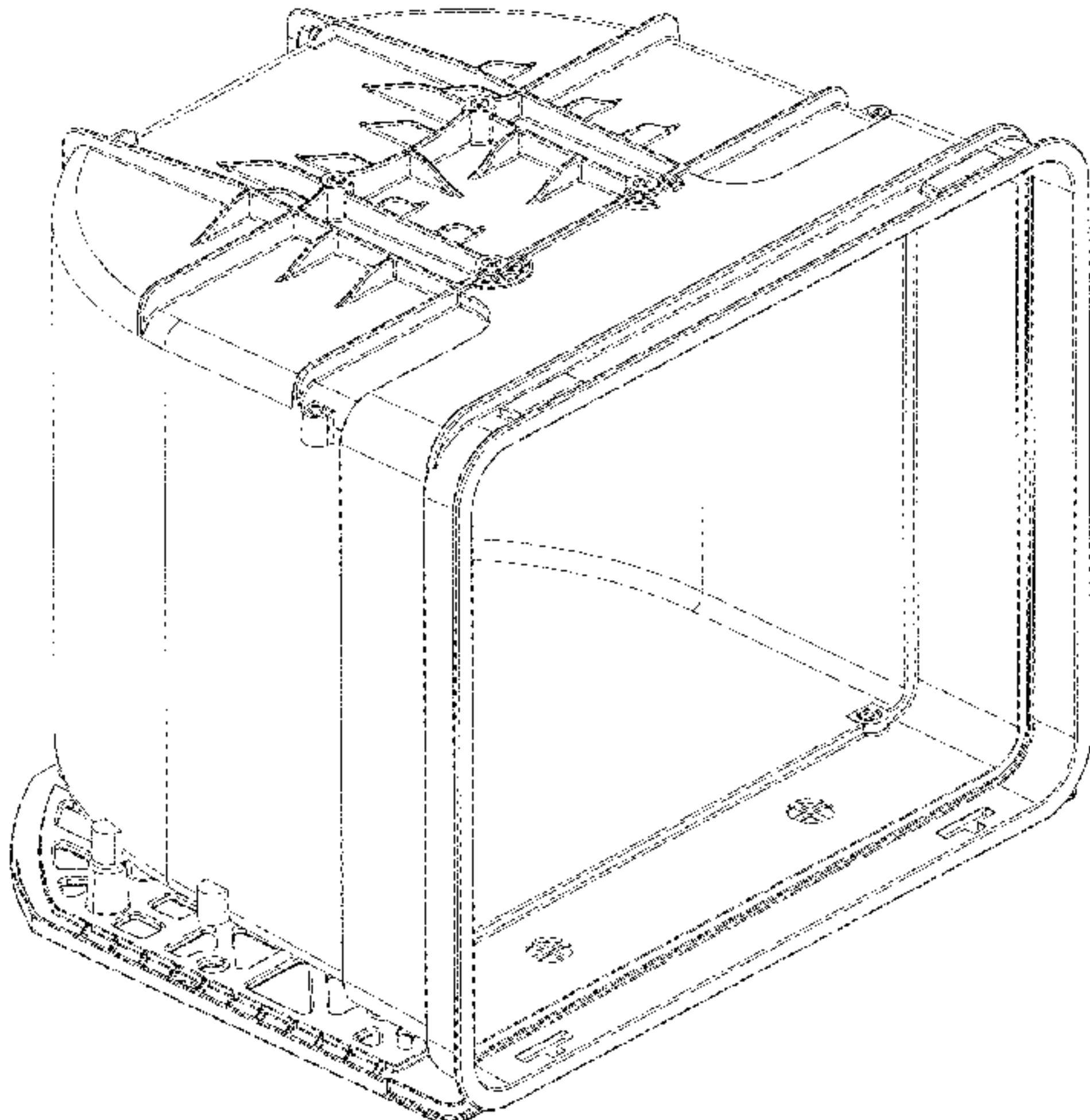


FIG. 29 is an enlarged view of a portion of FIG. 8;
FIG. 30 is an enlarged view of a portion of FIG. 8;
FIG. 31 is an enlarged view of a portion of FIG. 8;
FIG. 32 is an enlarged view of a portion of FIG. 8;
FIG. 33 is an enlarged view of a portion of FIG. 8;
FIG. 34 is an enlarged view of a portion of FIG. 9;
FIG. 35 is another perspective view of the front opening unified pod showing my new design;
FIG. 36 is another perspective view of the front opening unified pod showing my new design; and,
FIG. 37 is another perspective view of the front opening unified pod showing my new design.
The broken lines shown in the drawings are for the purpose of illustrating boundaries of the enlarged views of FIGS. 1-9, and form no part of the claimed design. The broken lines surrounding by the broken boundary lines in FIG. 9 illustrate the environmental use and form no part of the claimed design.

1 Claim, 35 Drawing Sheets

(58) **Field of Classification Search**
CPC H01L 21/68; H01L 21/67386; H01L

21/6773; H01L 21/6734; H01L 21/67359;
H01L 21/6838
See application file for complete search history.

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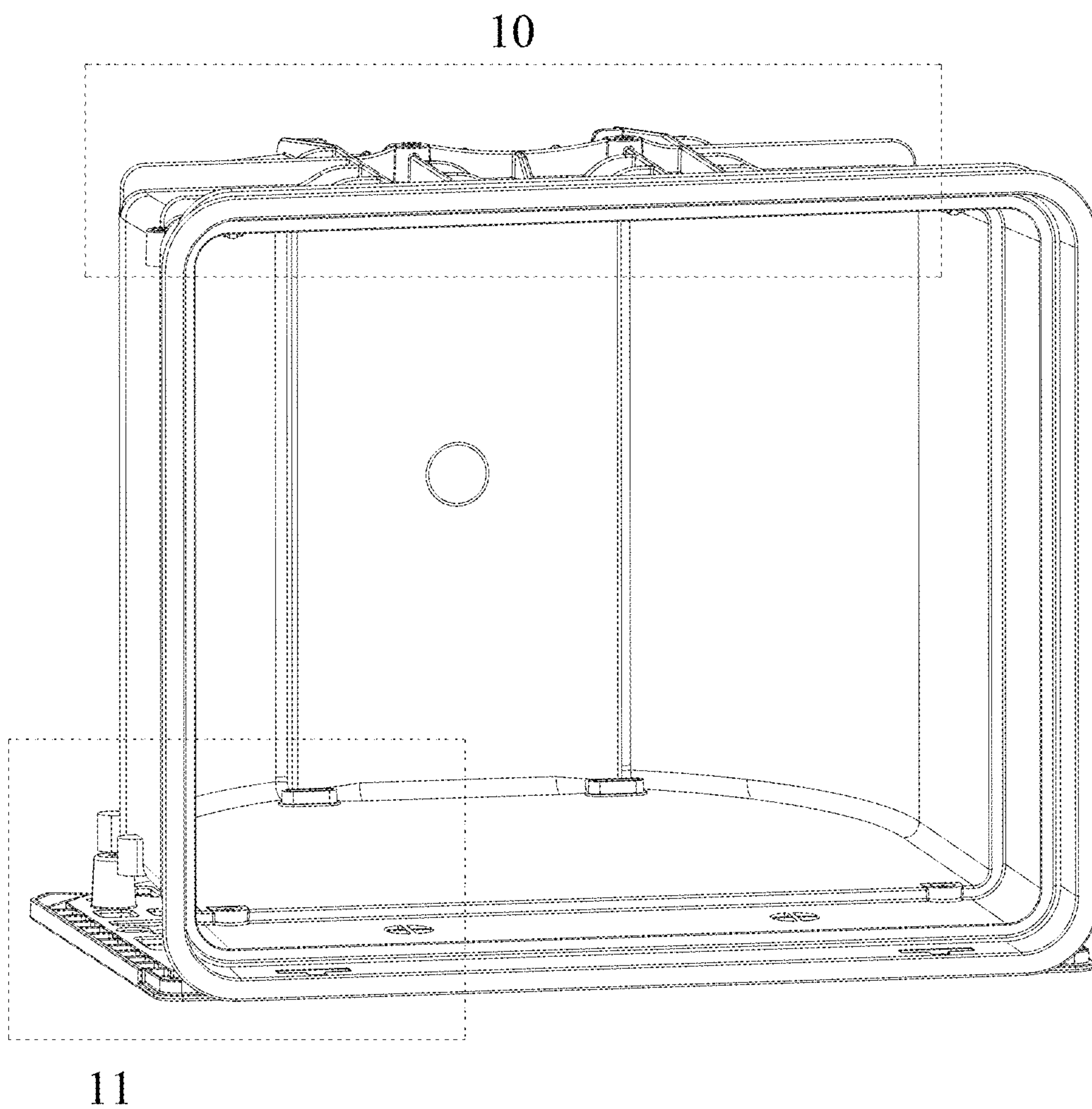
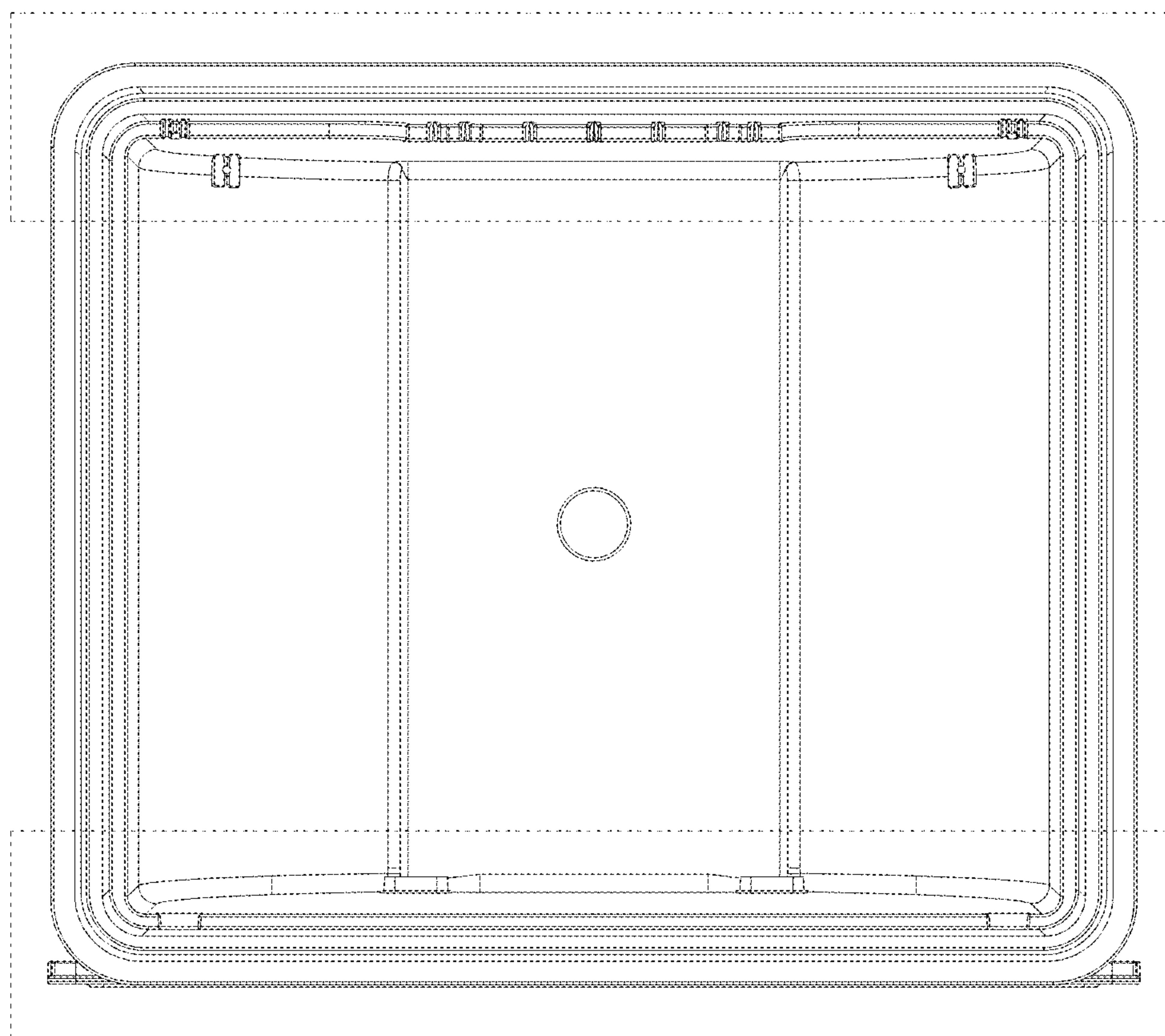


FIG. 1

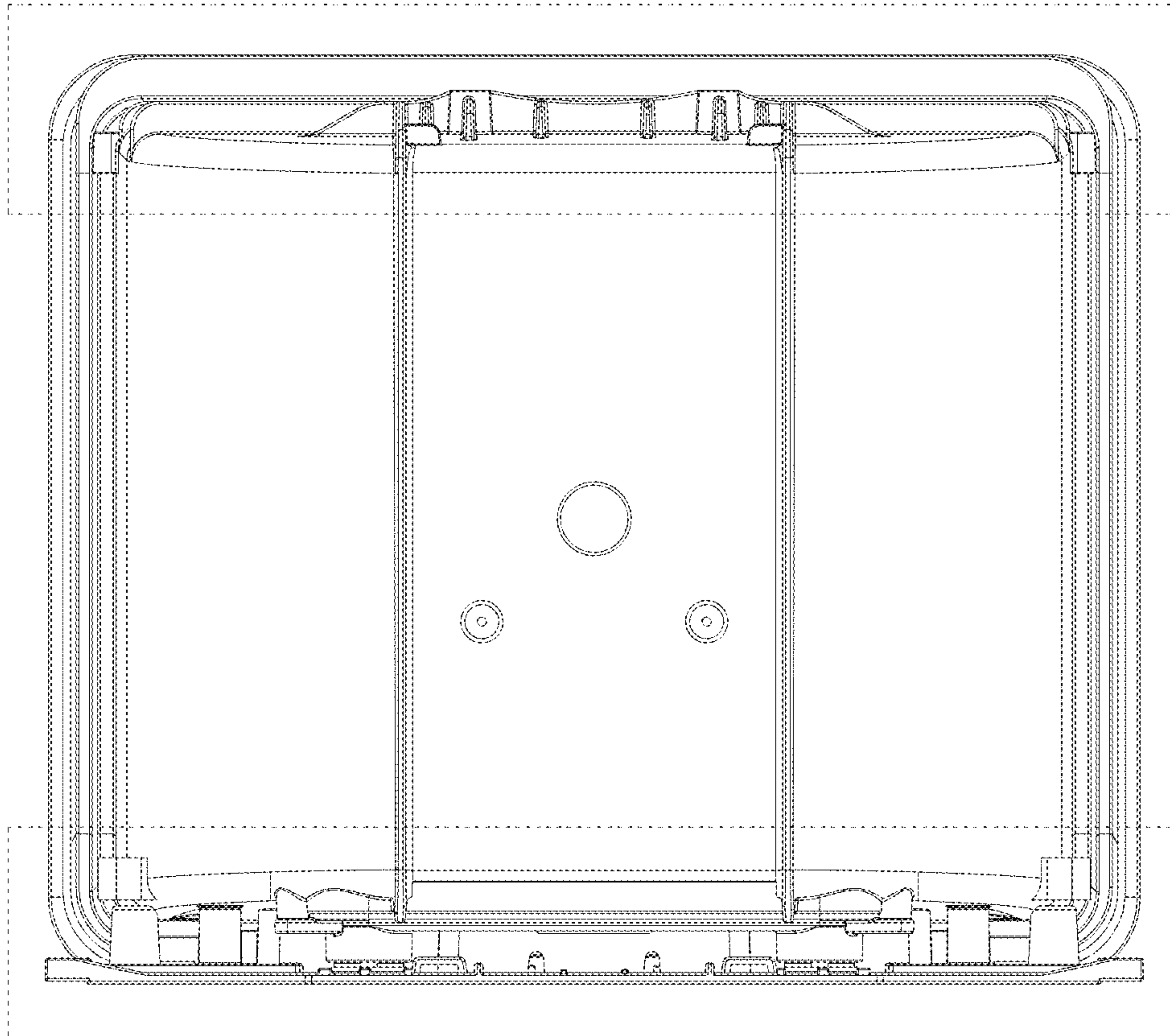
12



13

FIG. 2

14



15

FIG. 3

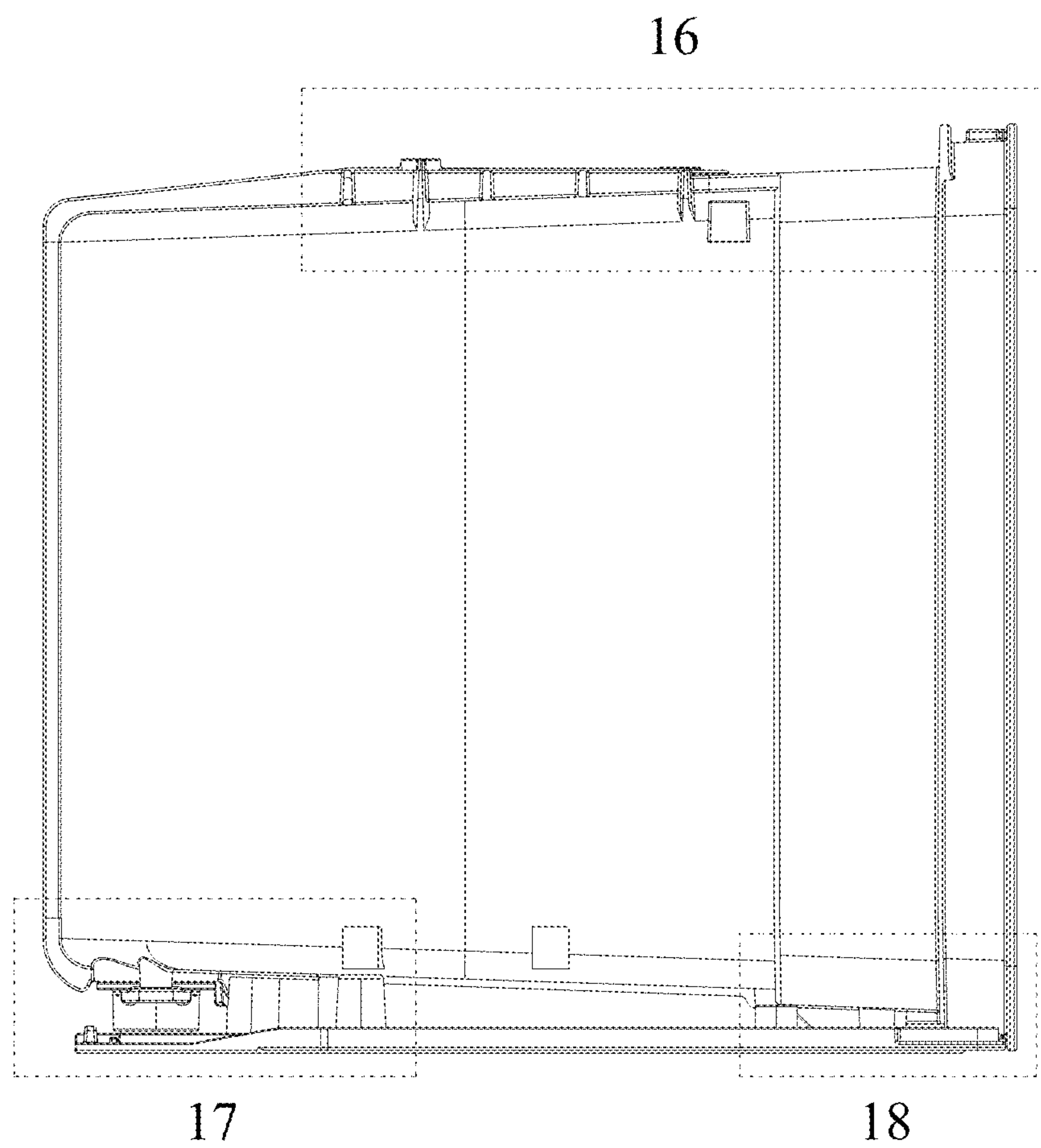


FIG. 4

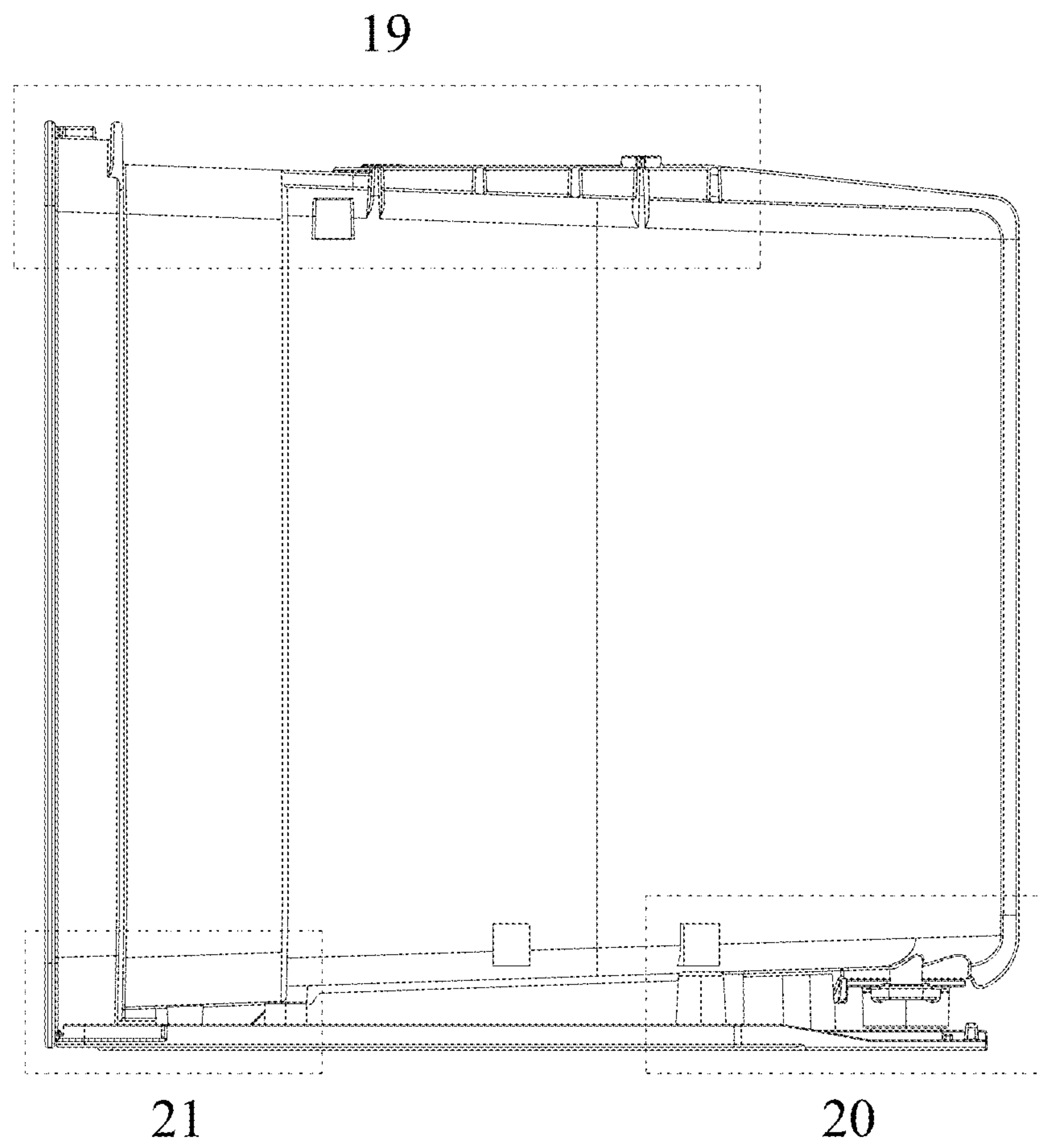


FIG. 5

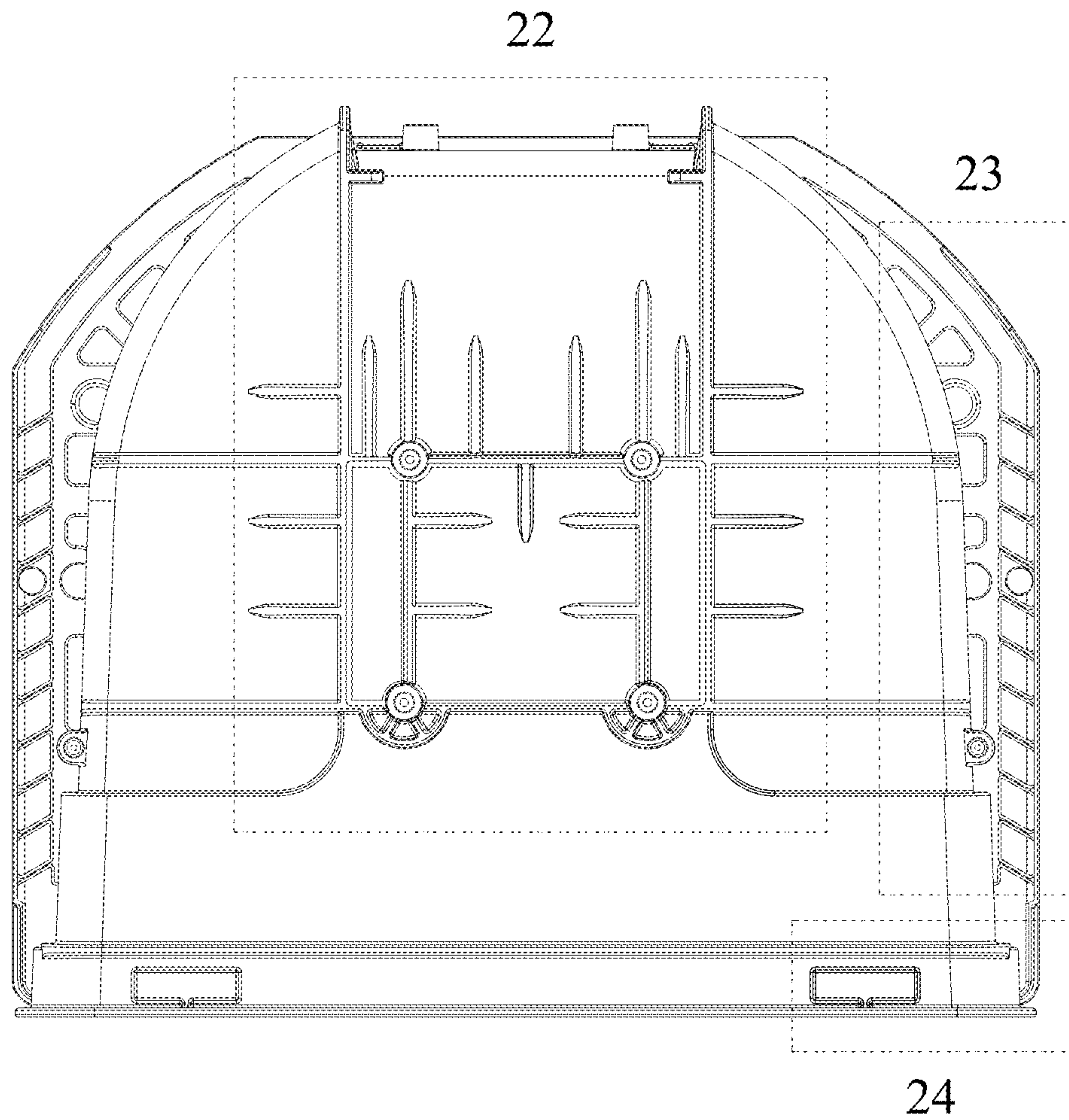


FIG. 6

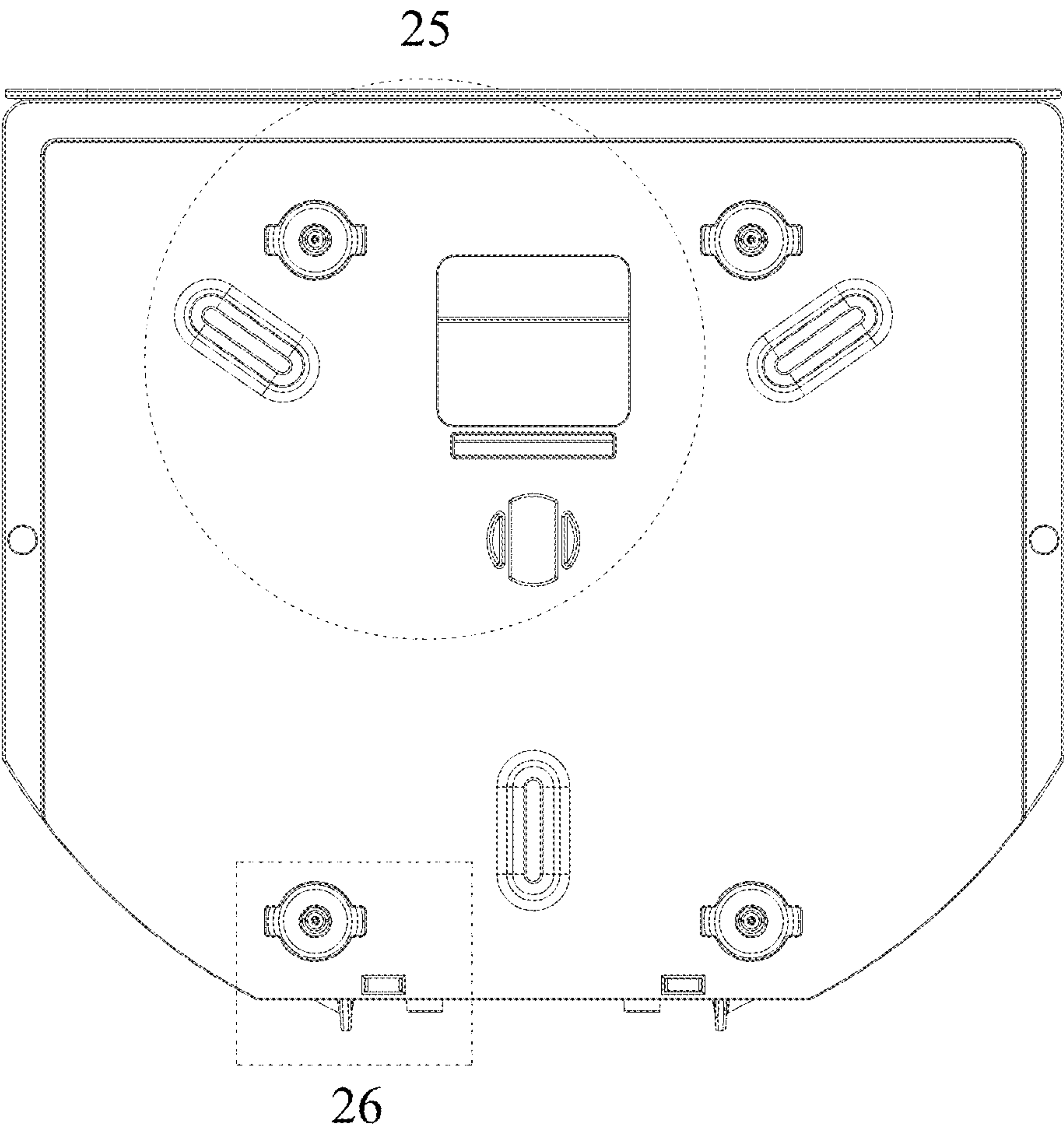


FIG. 7

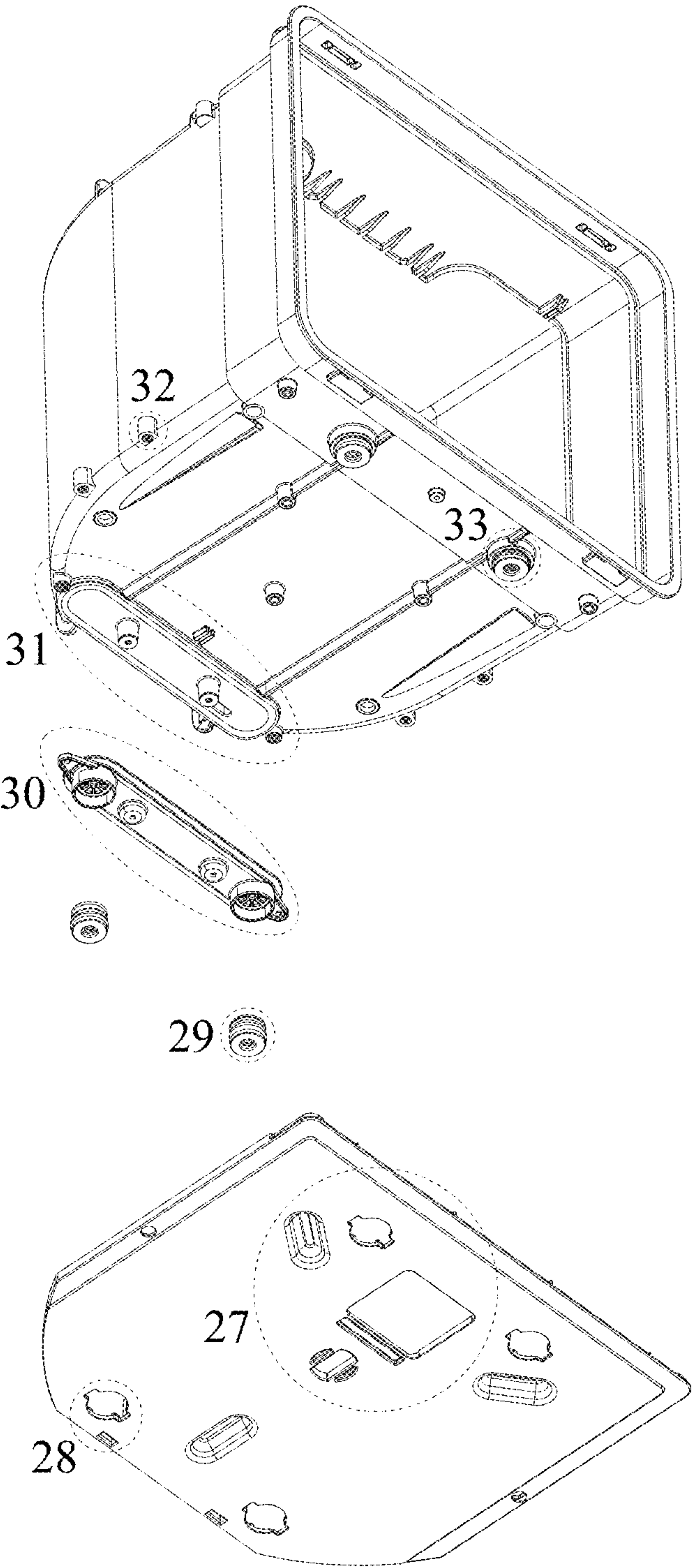


FIG. 8

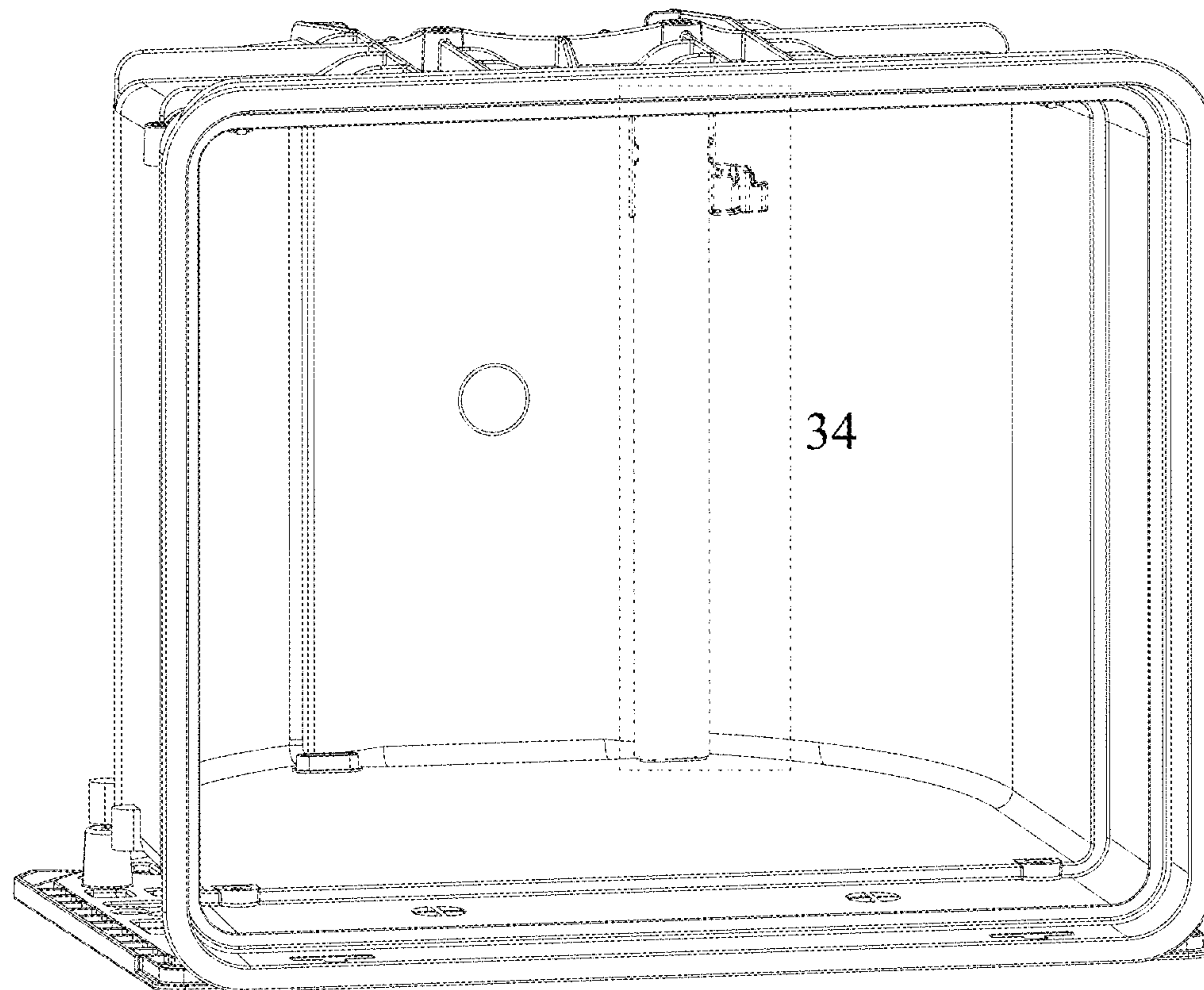


FIG. 9

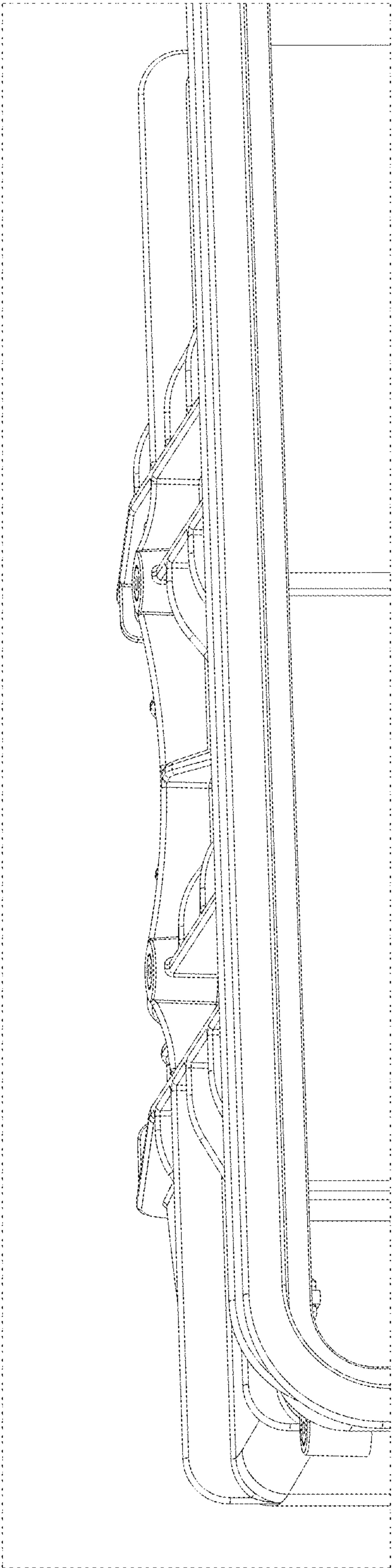


FIG. 10

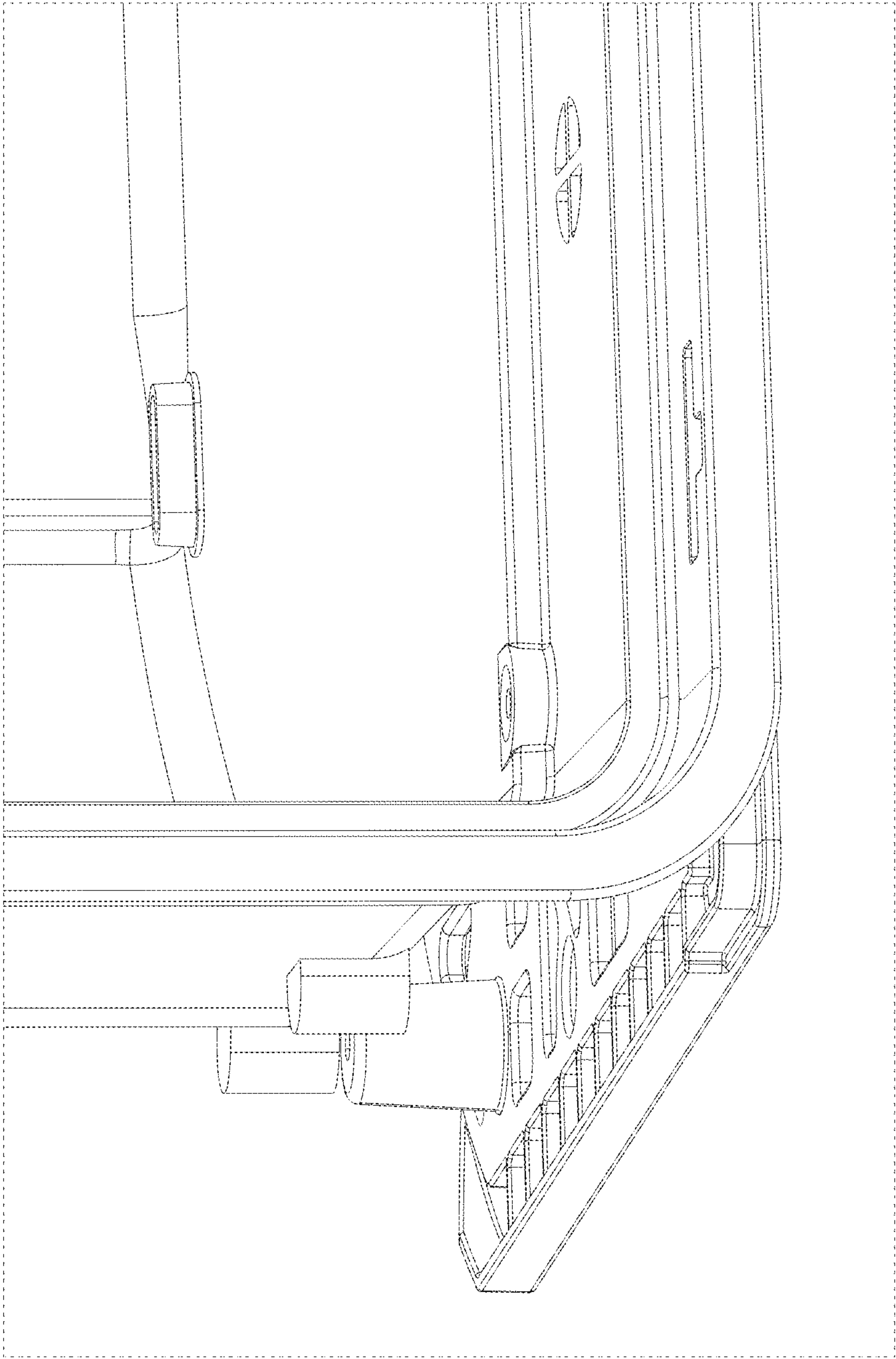


FIG. 11

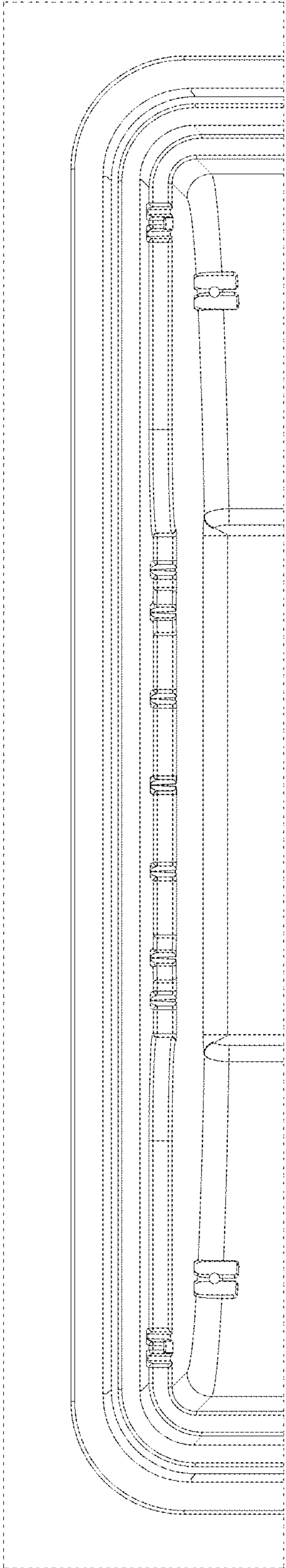


FIG. 12

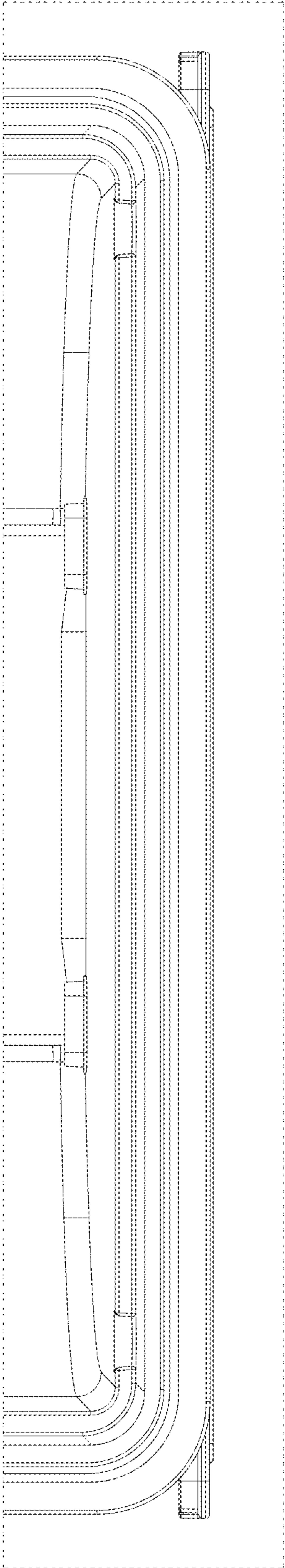


FIG. 13

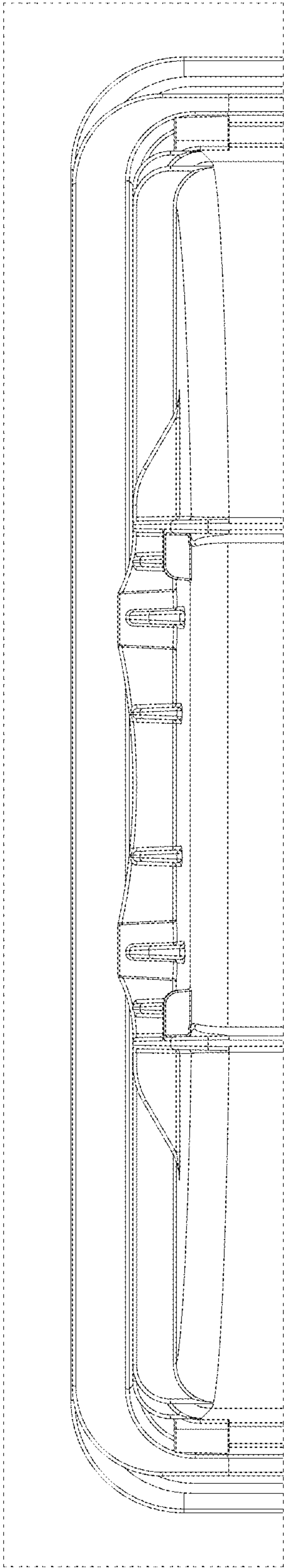


FIG. 14

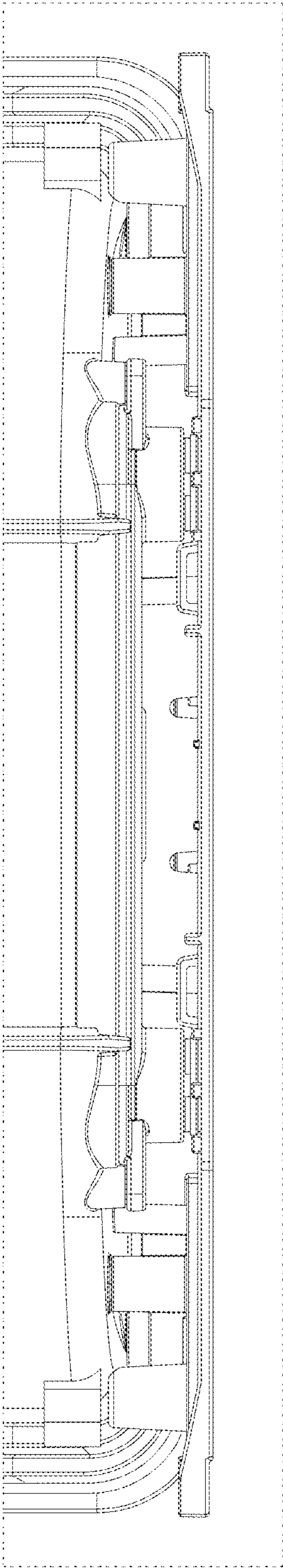


FIG. 15

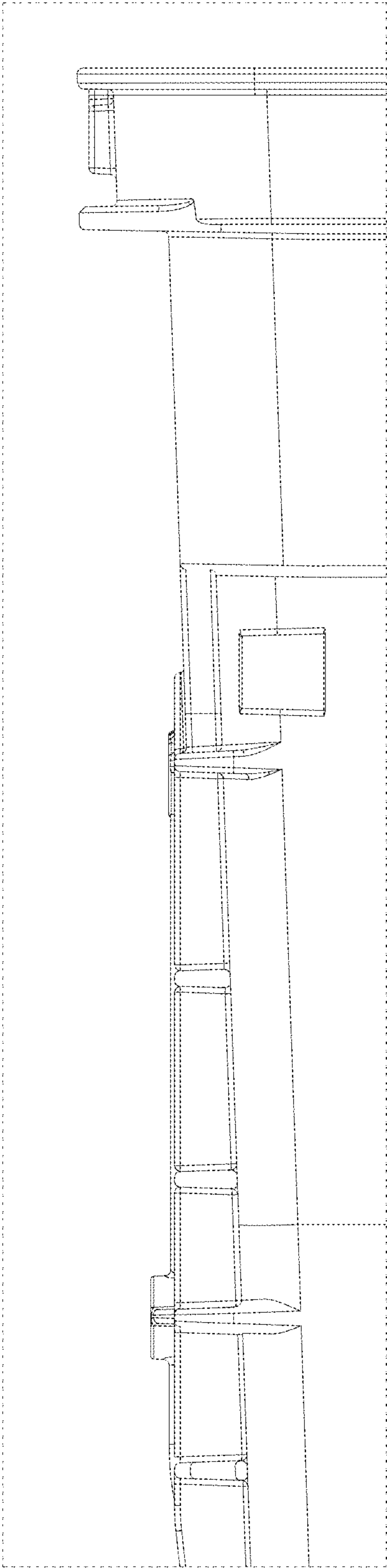


FIG. 16

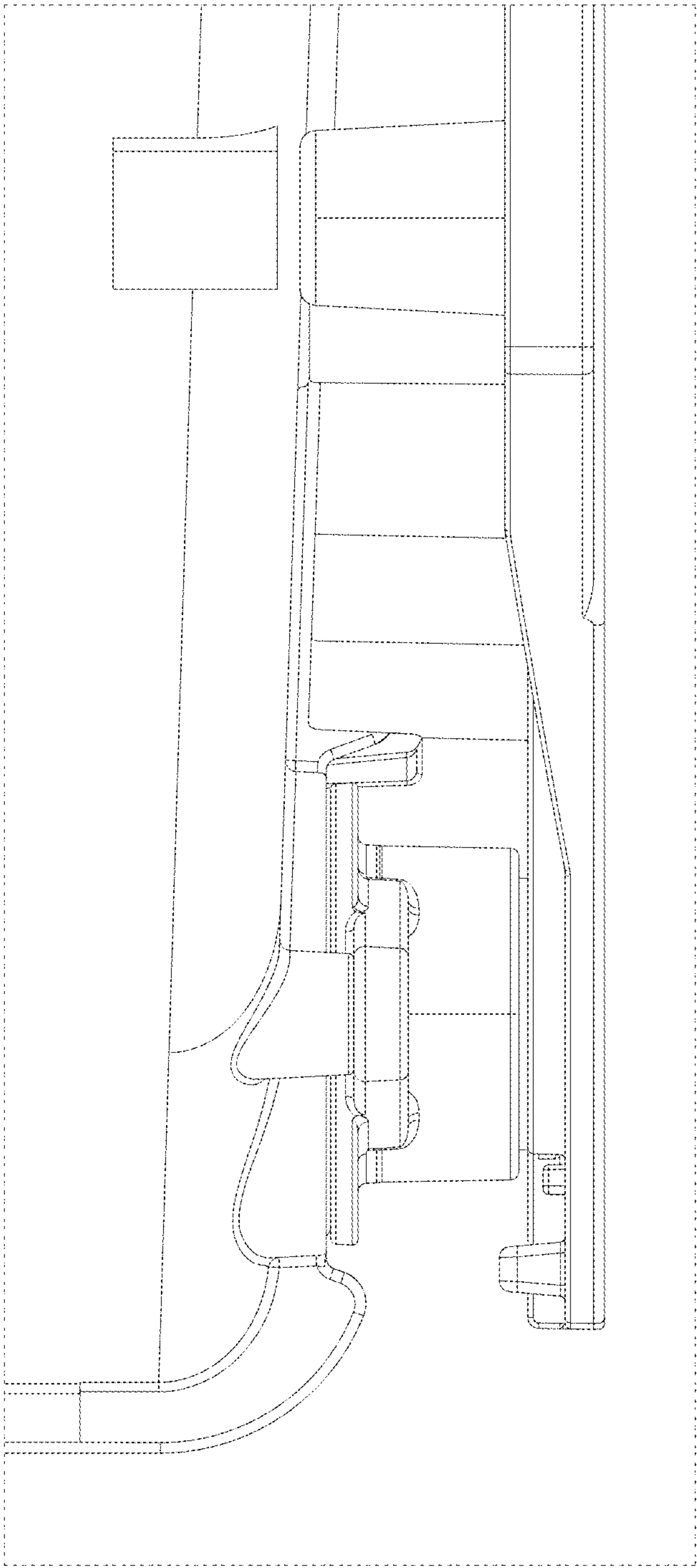


FIG. 17

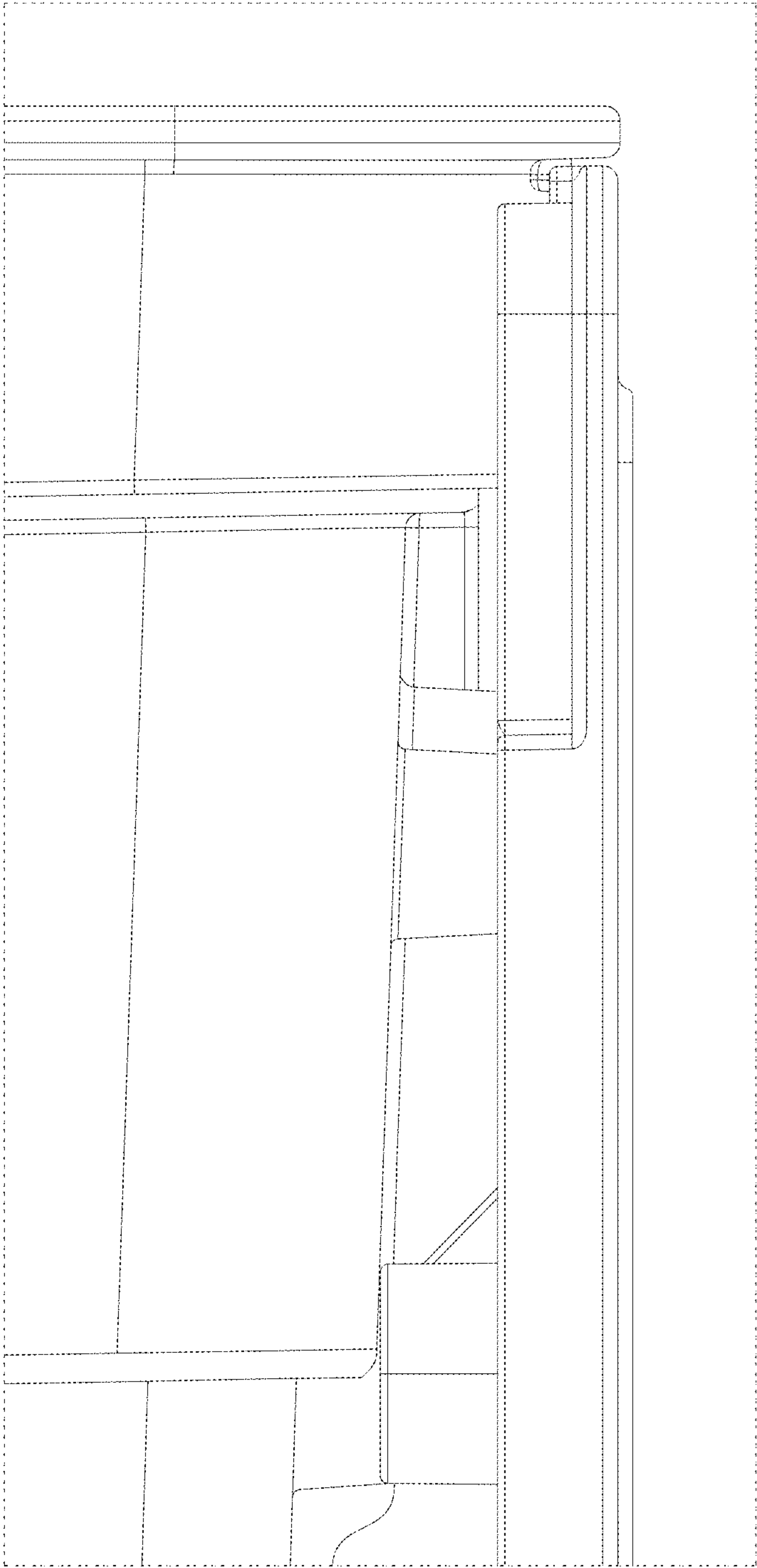


FIG. 18

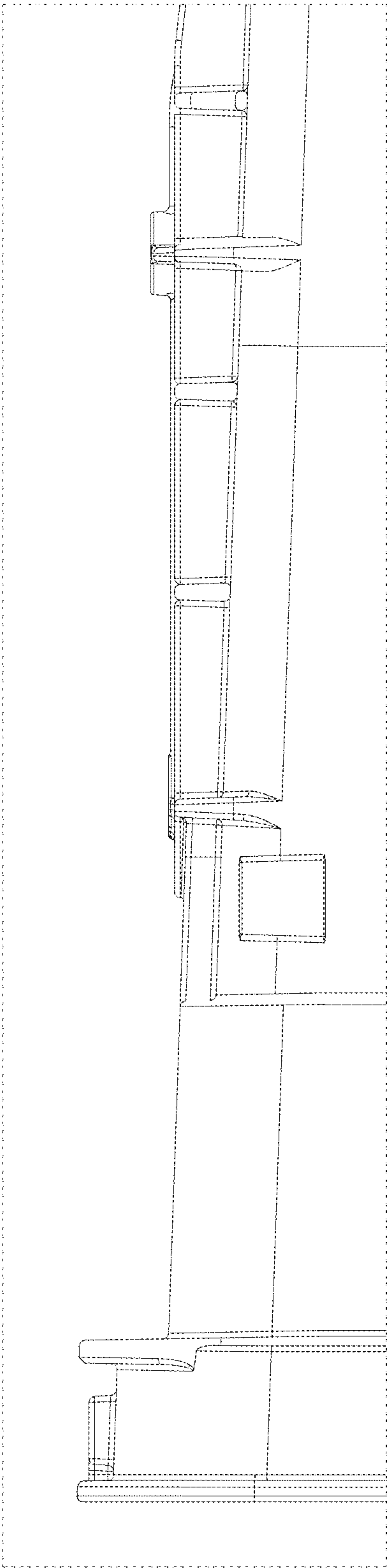


FIG. 19

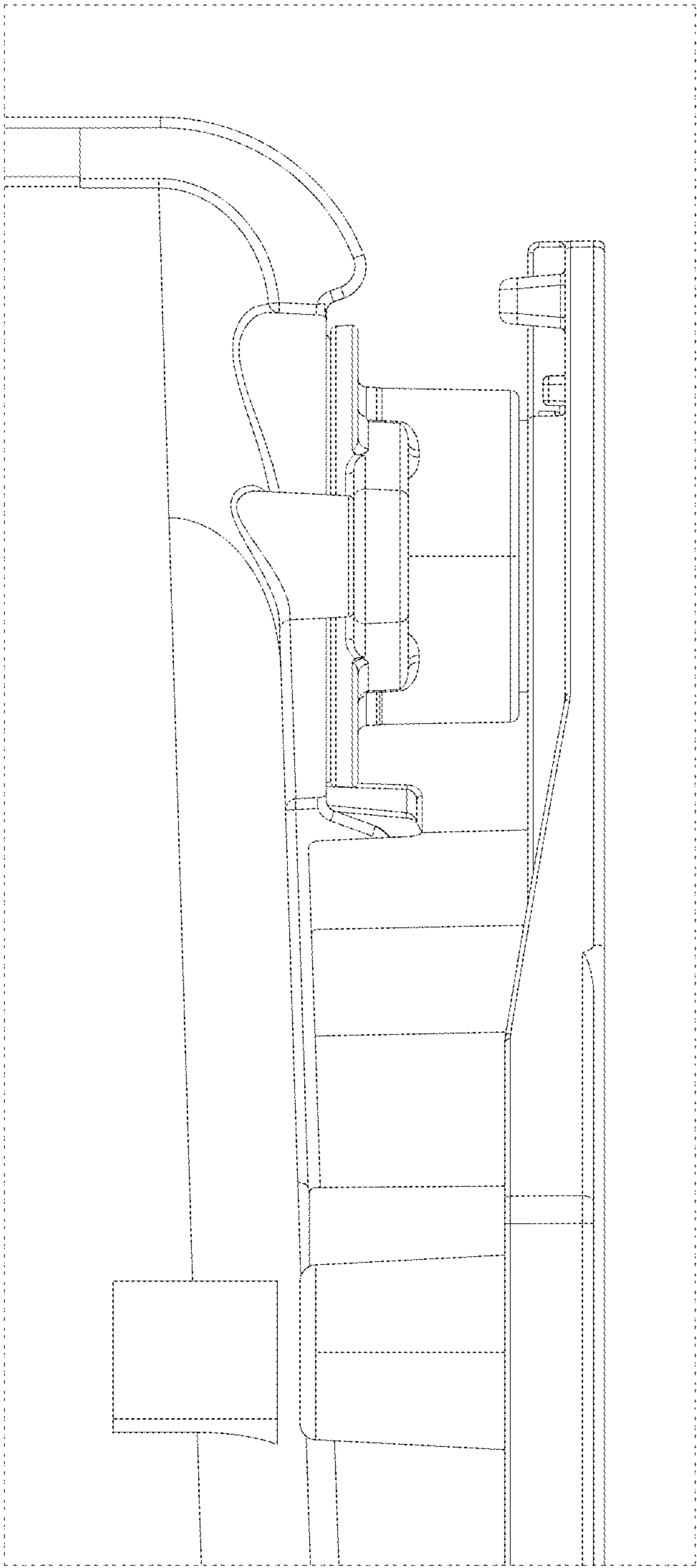


FIG. 20

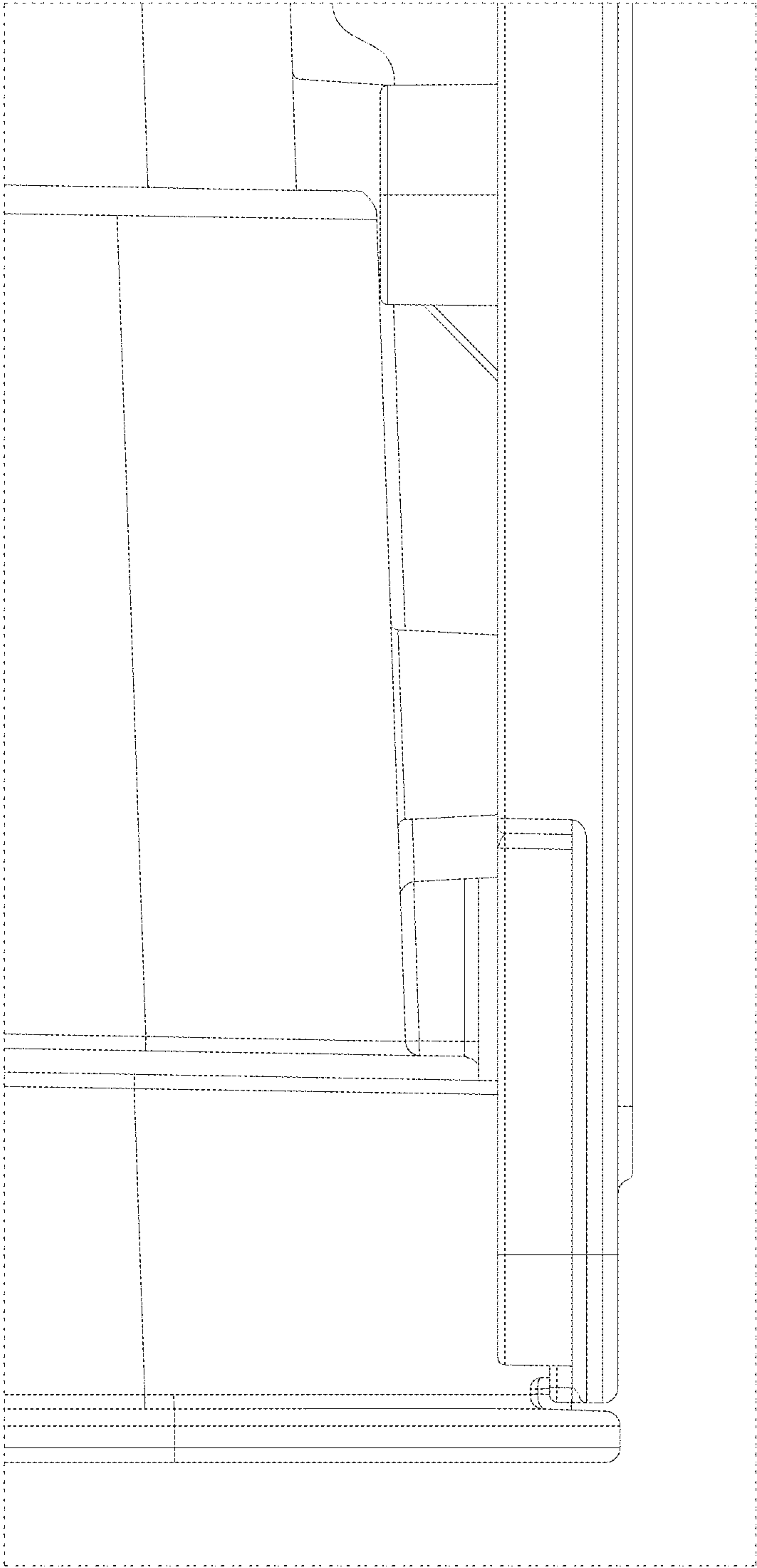


FIG. 21

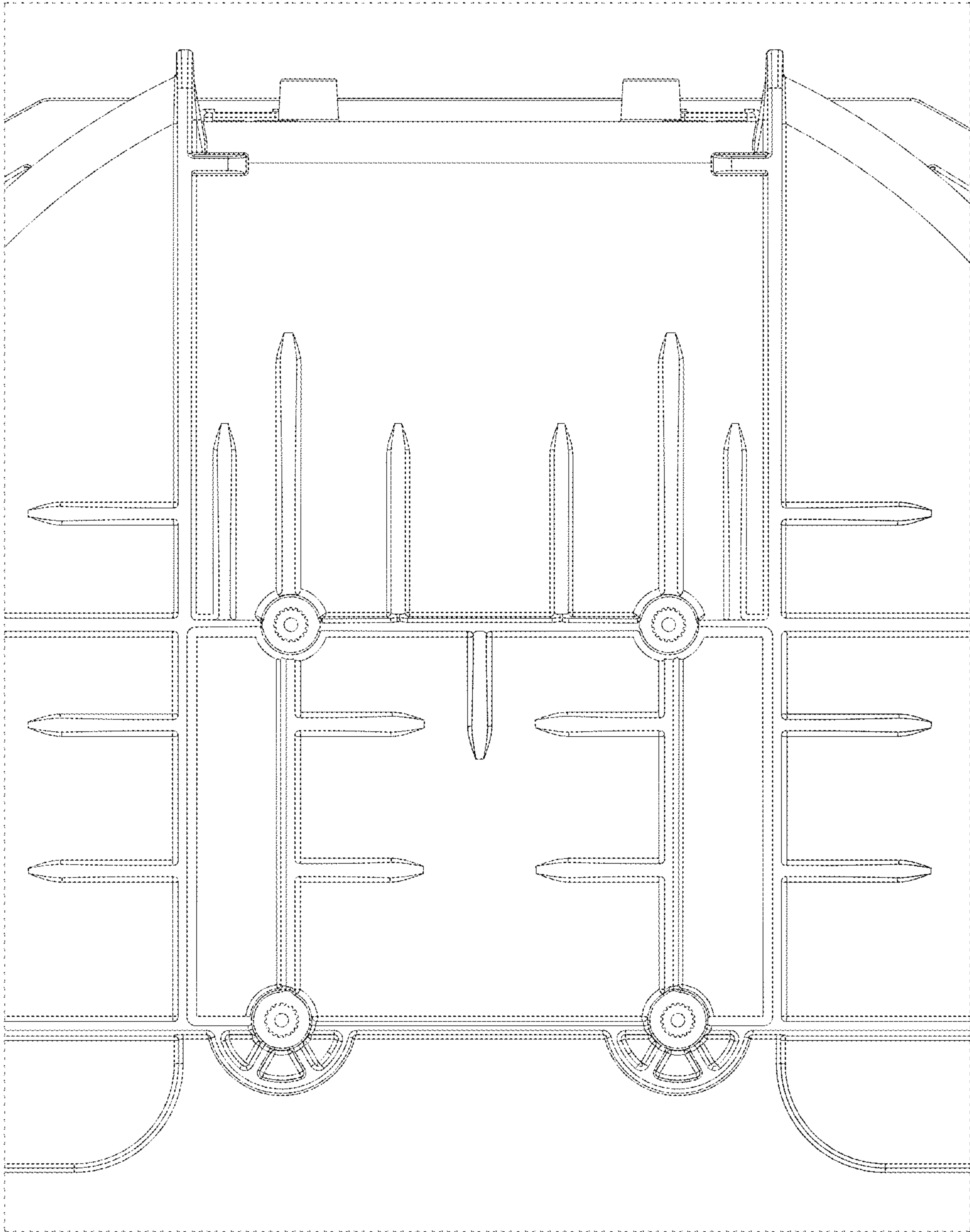


FIG. 22

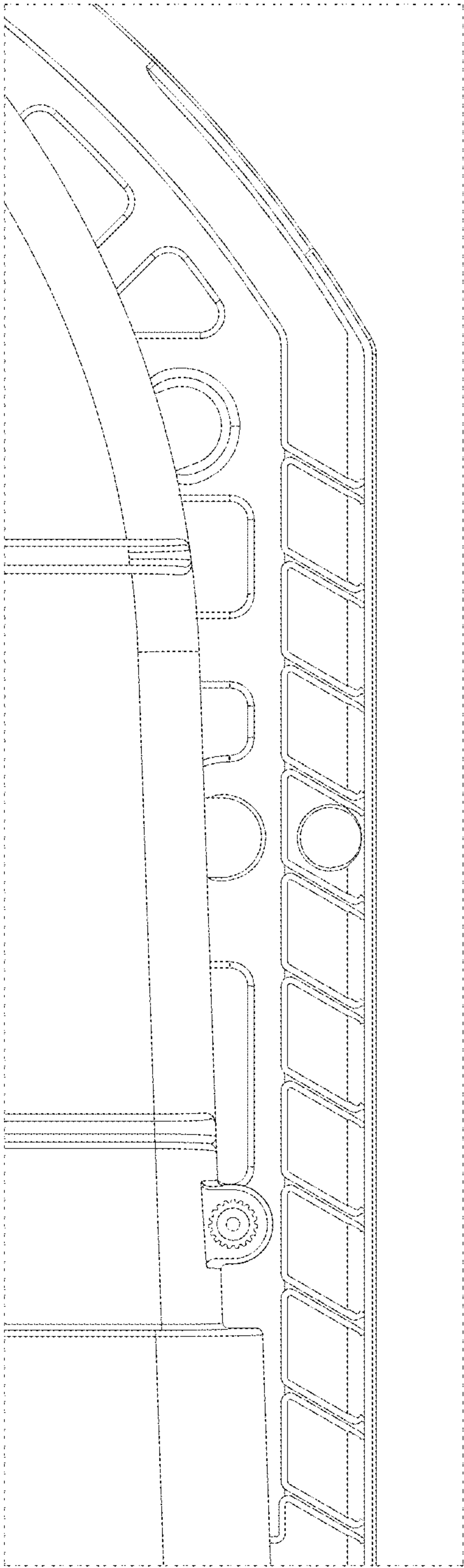


FIG. 23

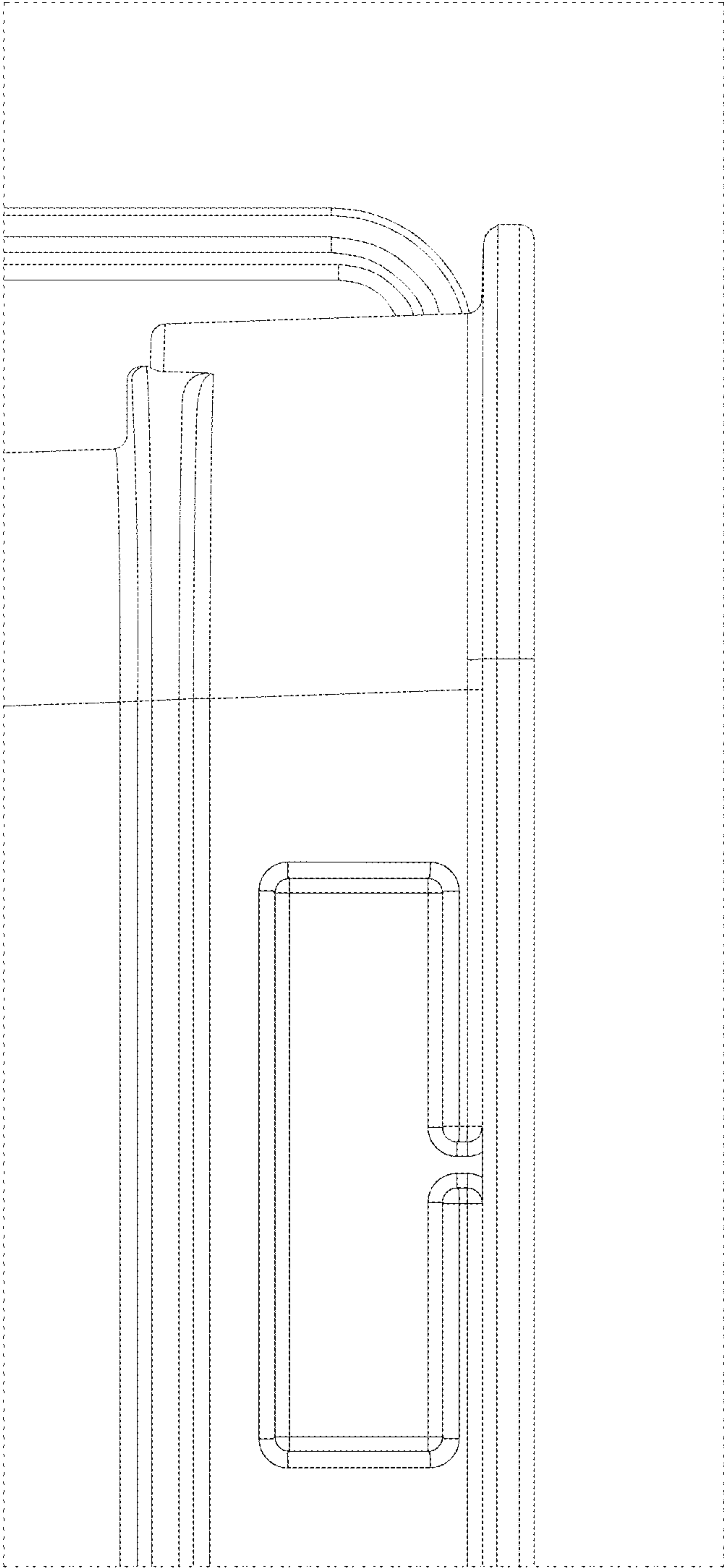


FIG. 24

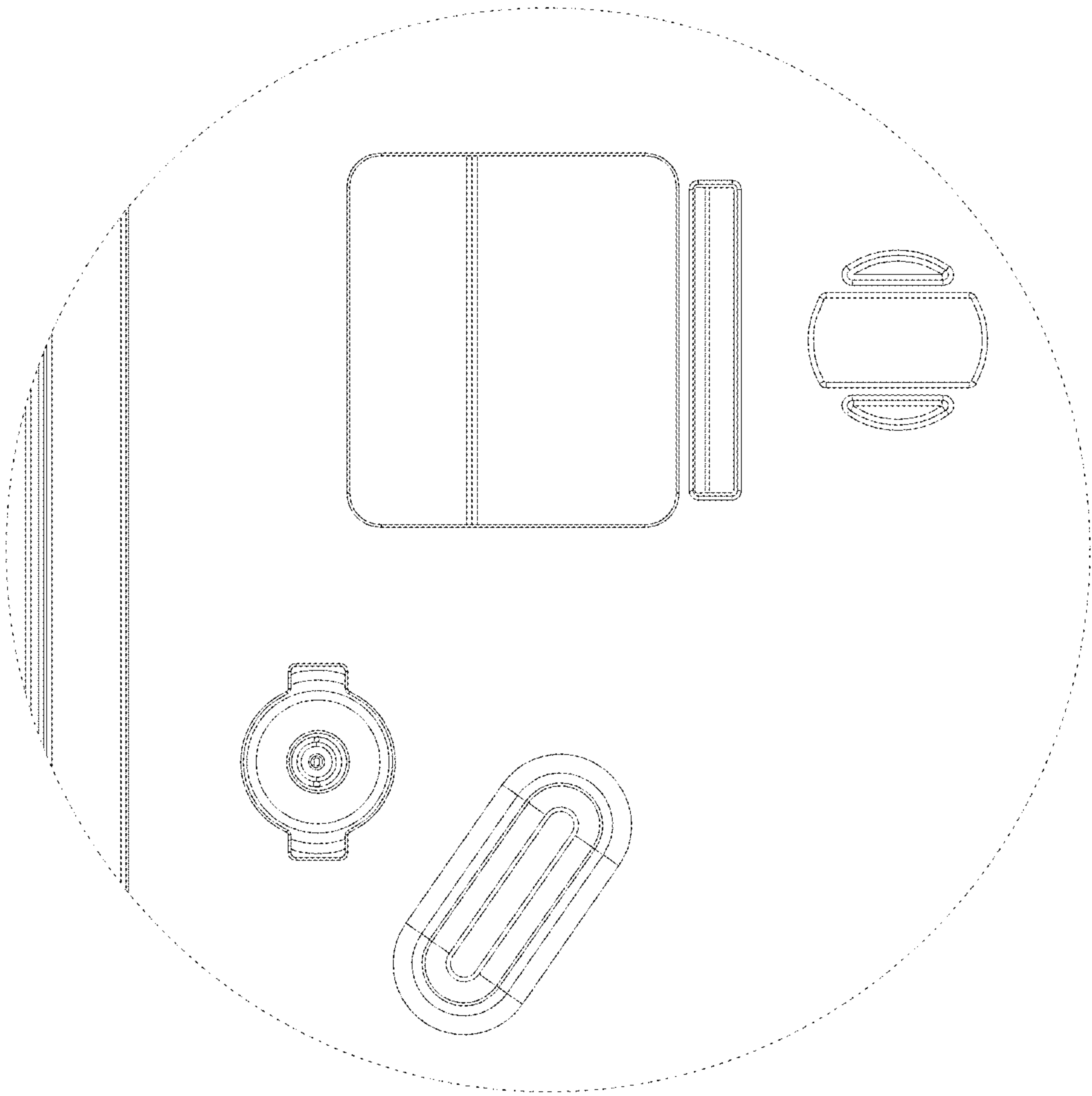


FIG. 25

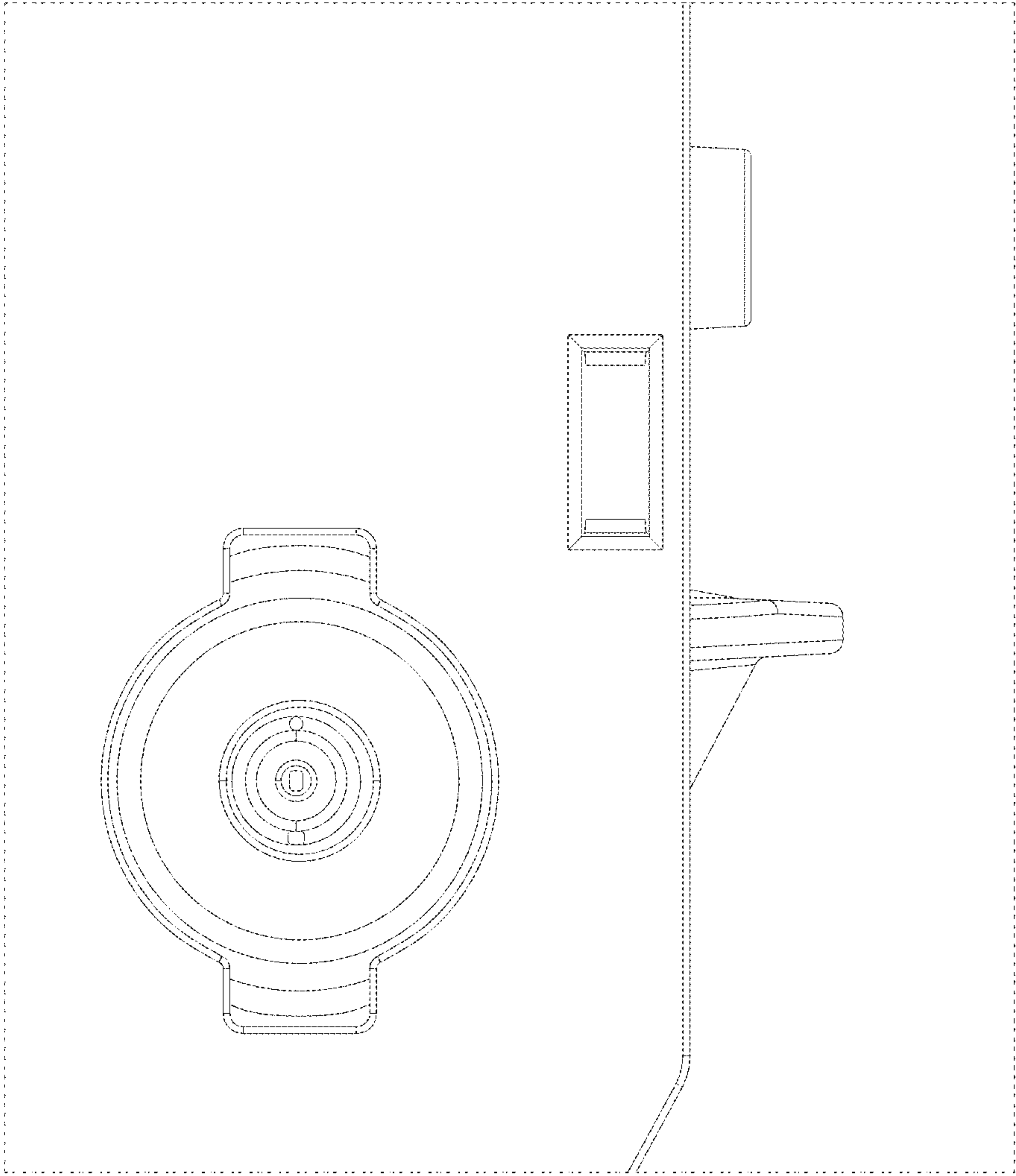


FIG. 26

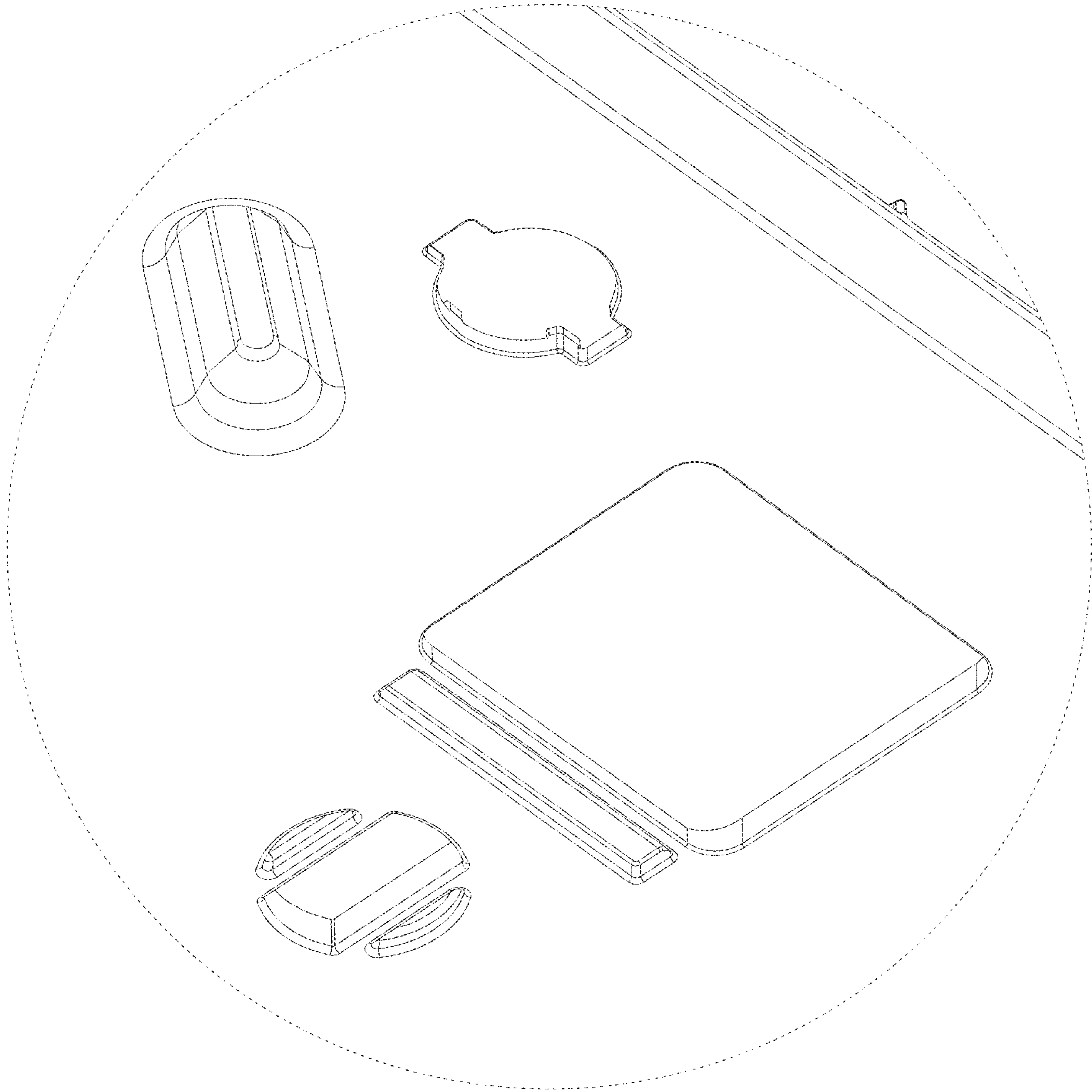


FIG. 27

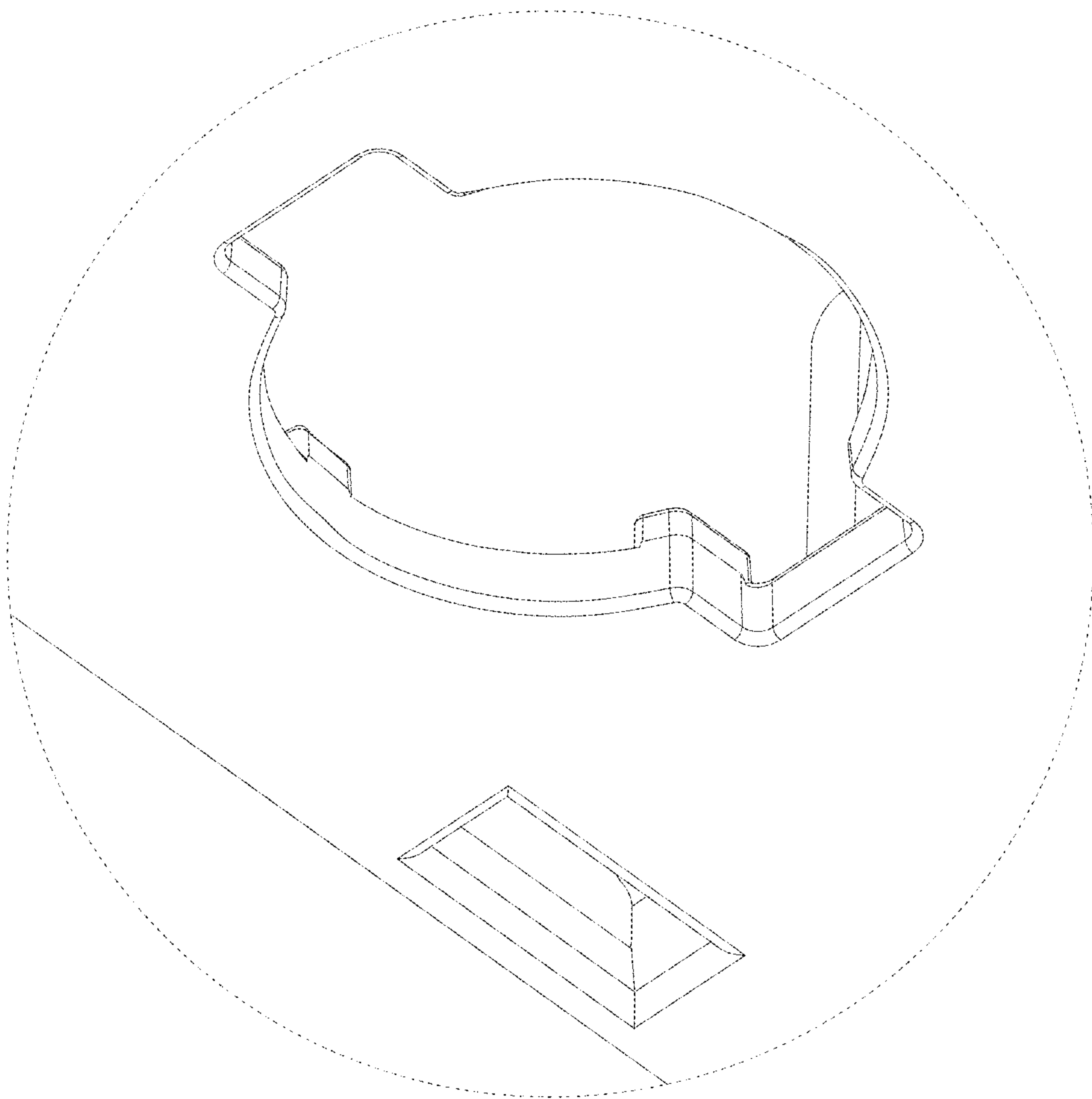


FIG. 28

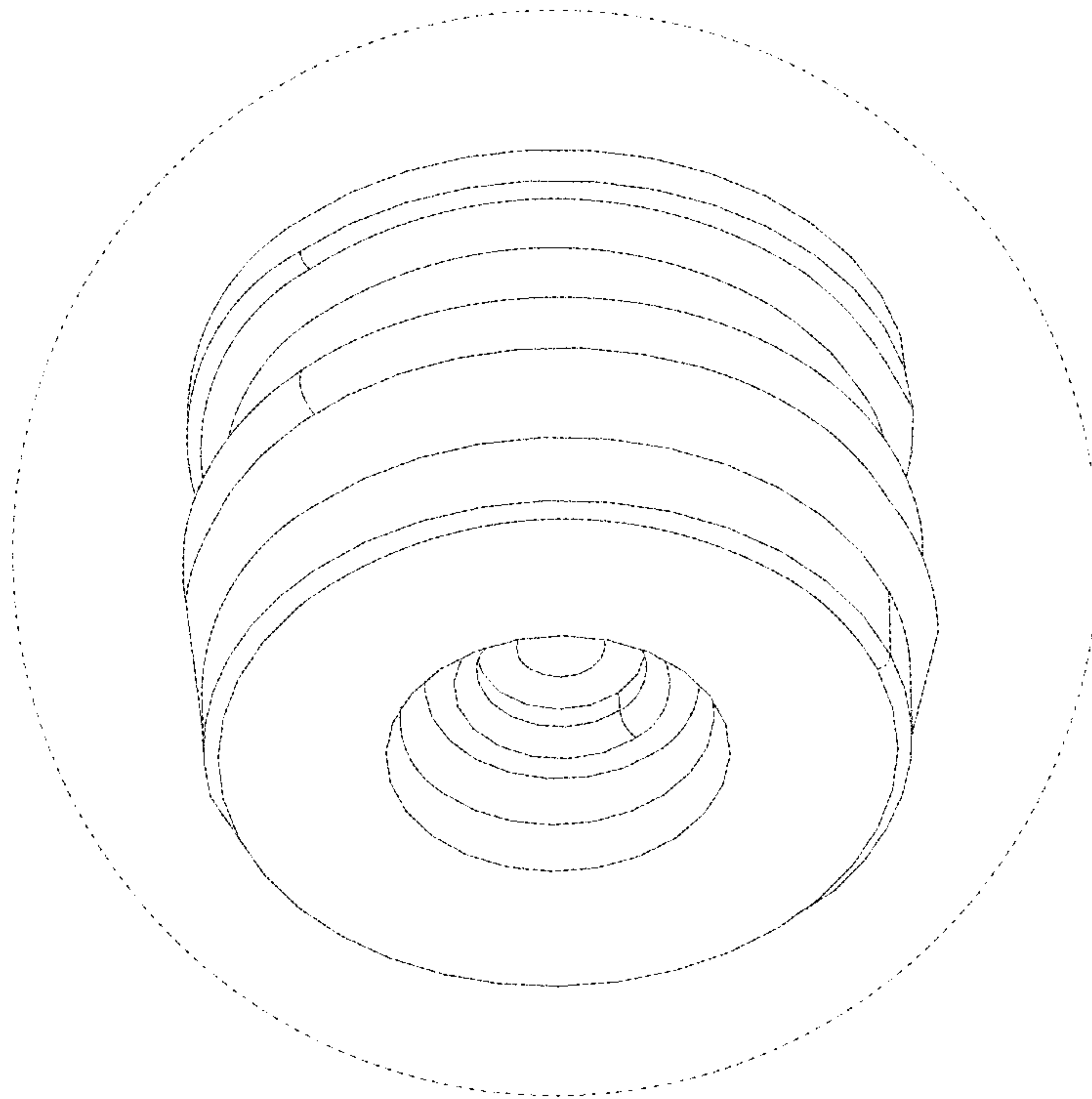


FIG. 29

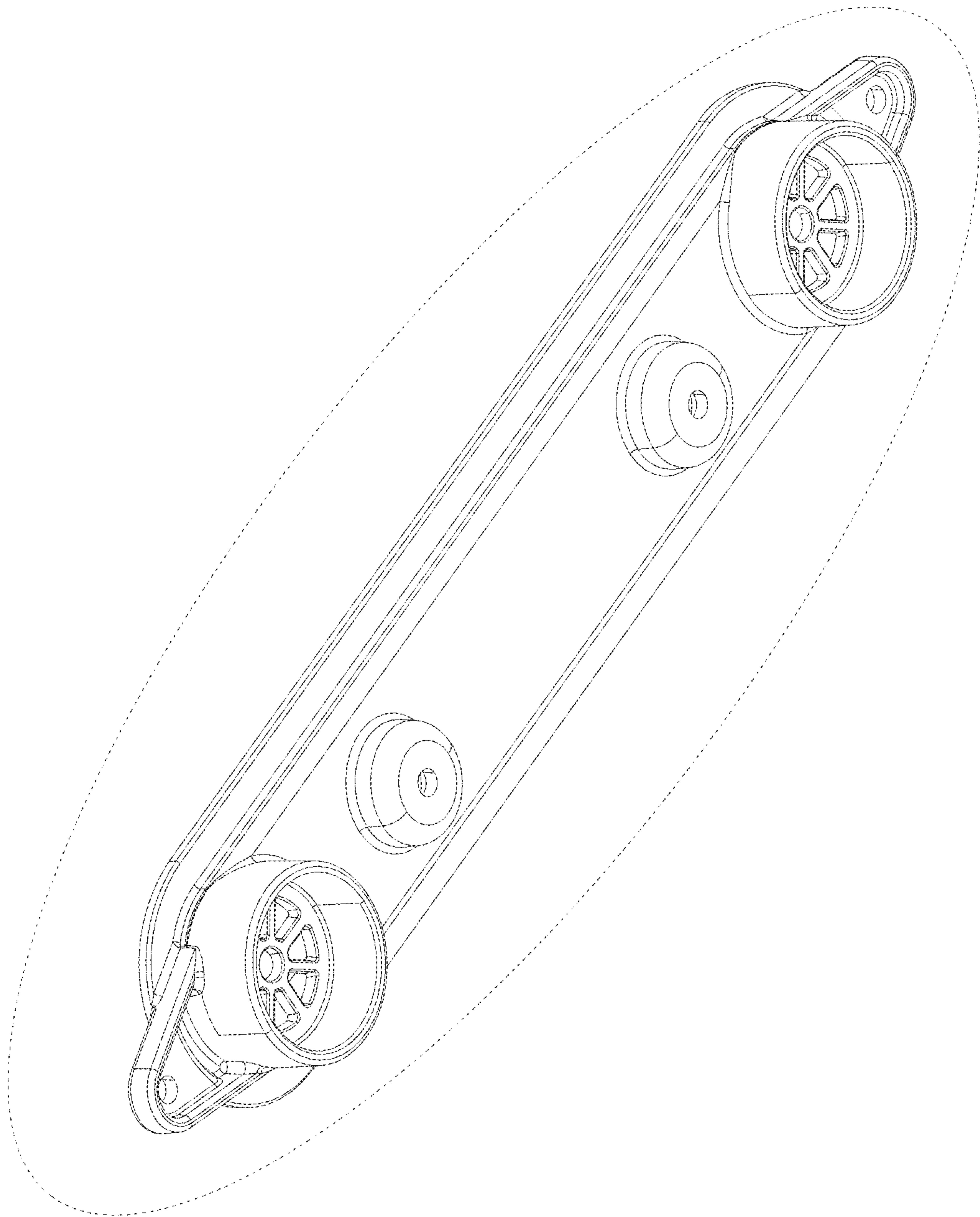


FIG. 30

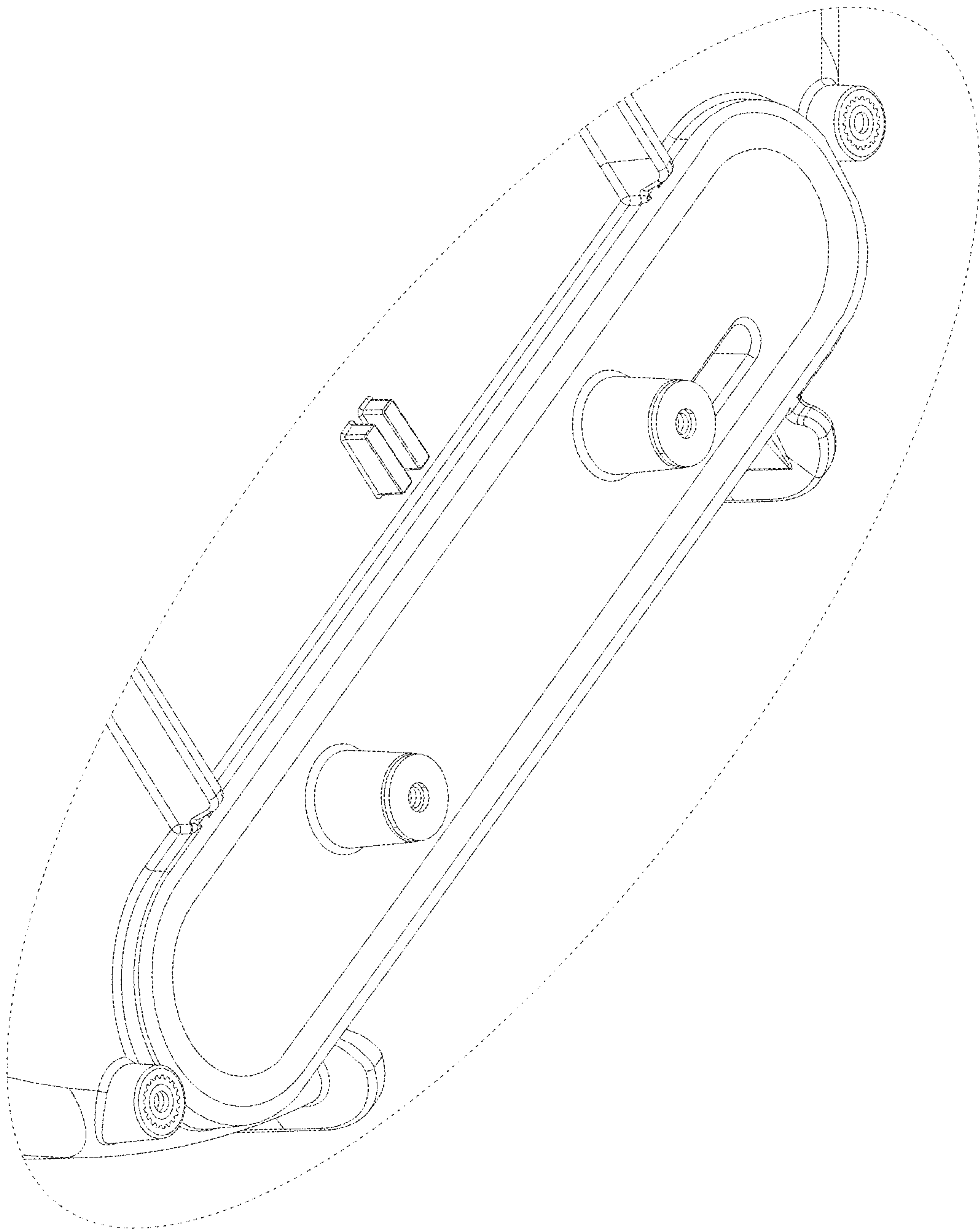


FIG. 31

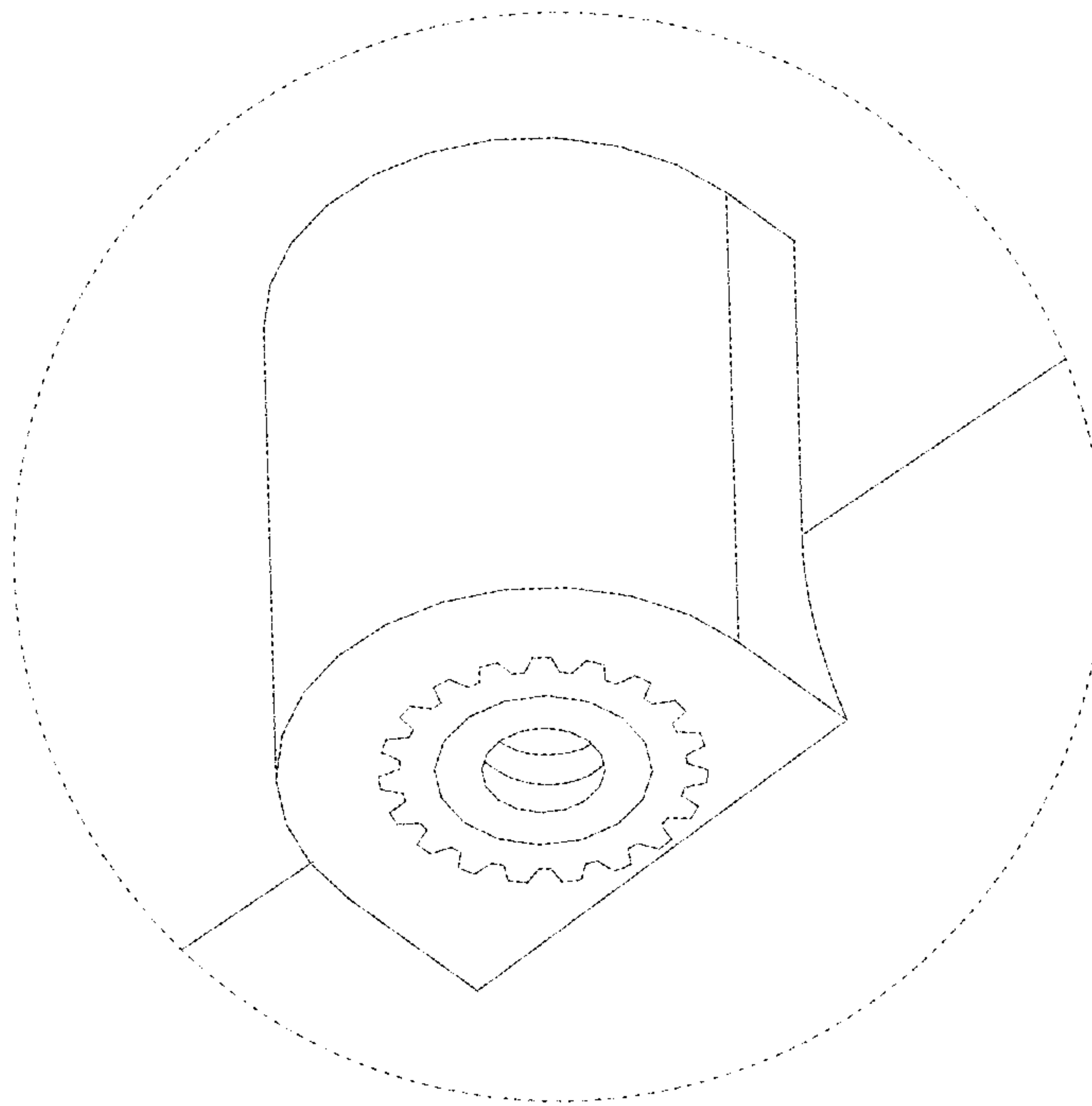


FIG. 32

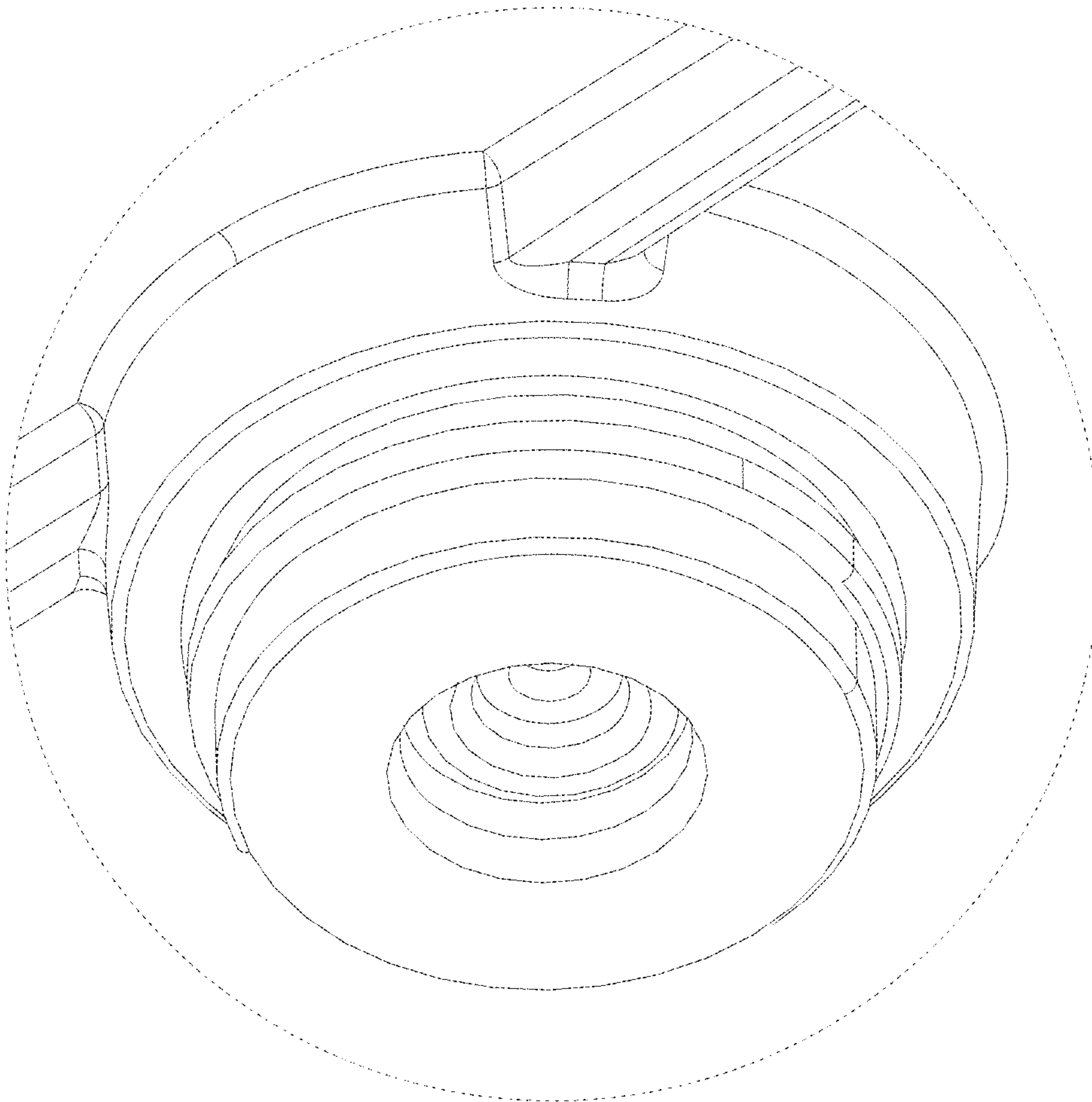


FIG. 33

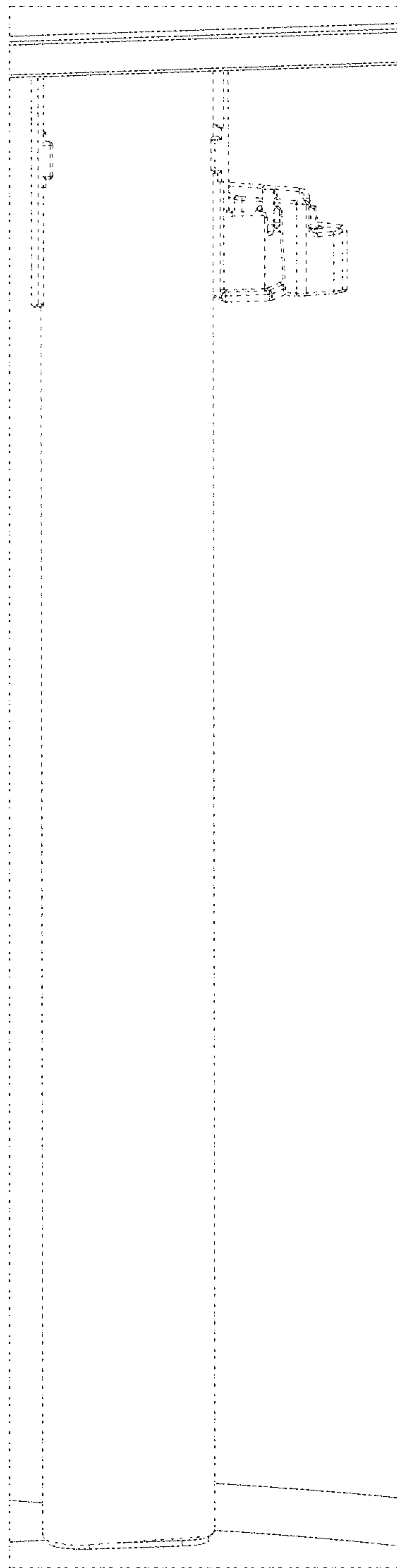


FIG. 34

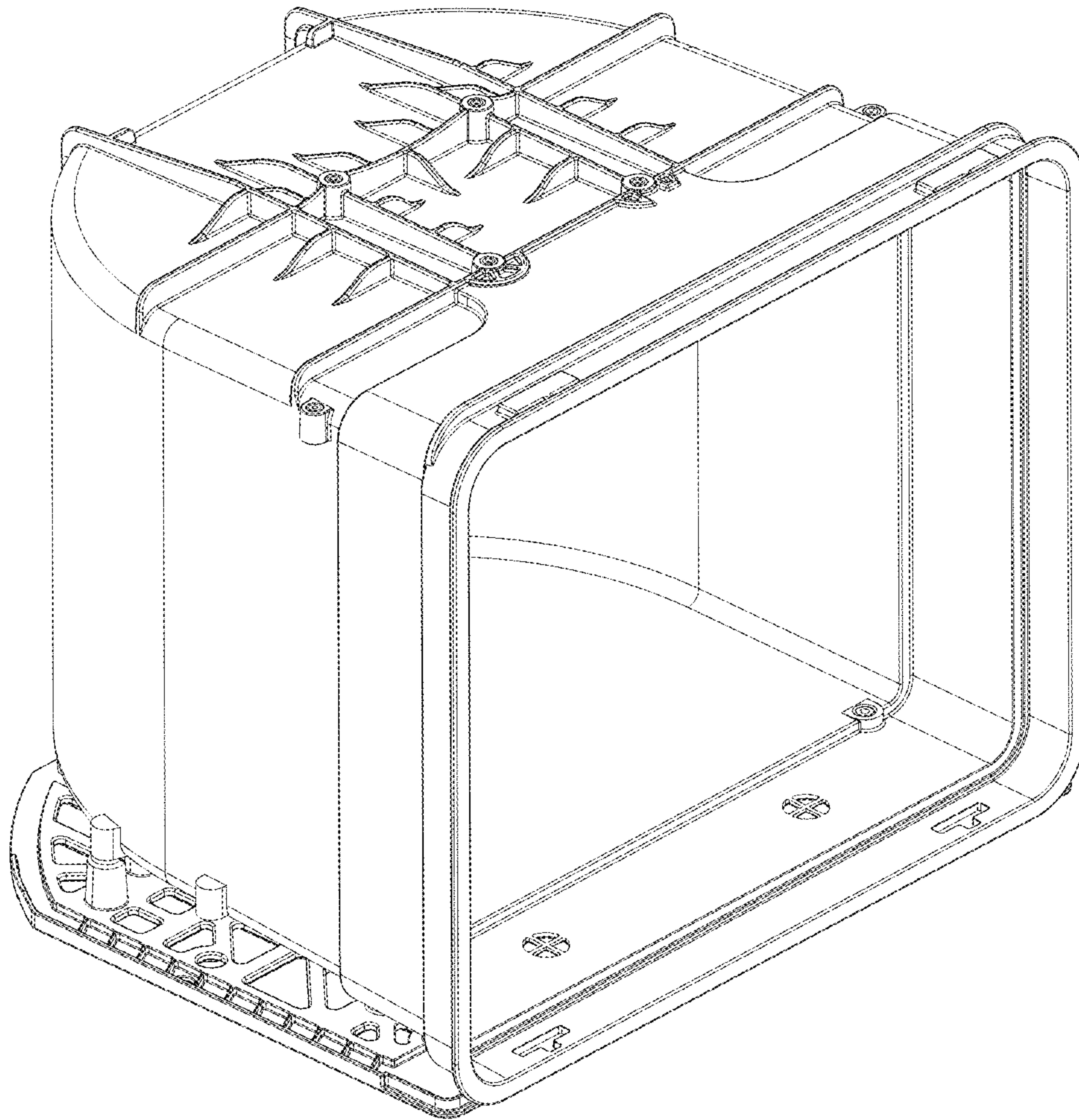


FIG. 35

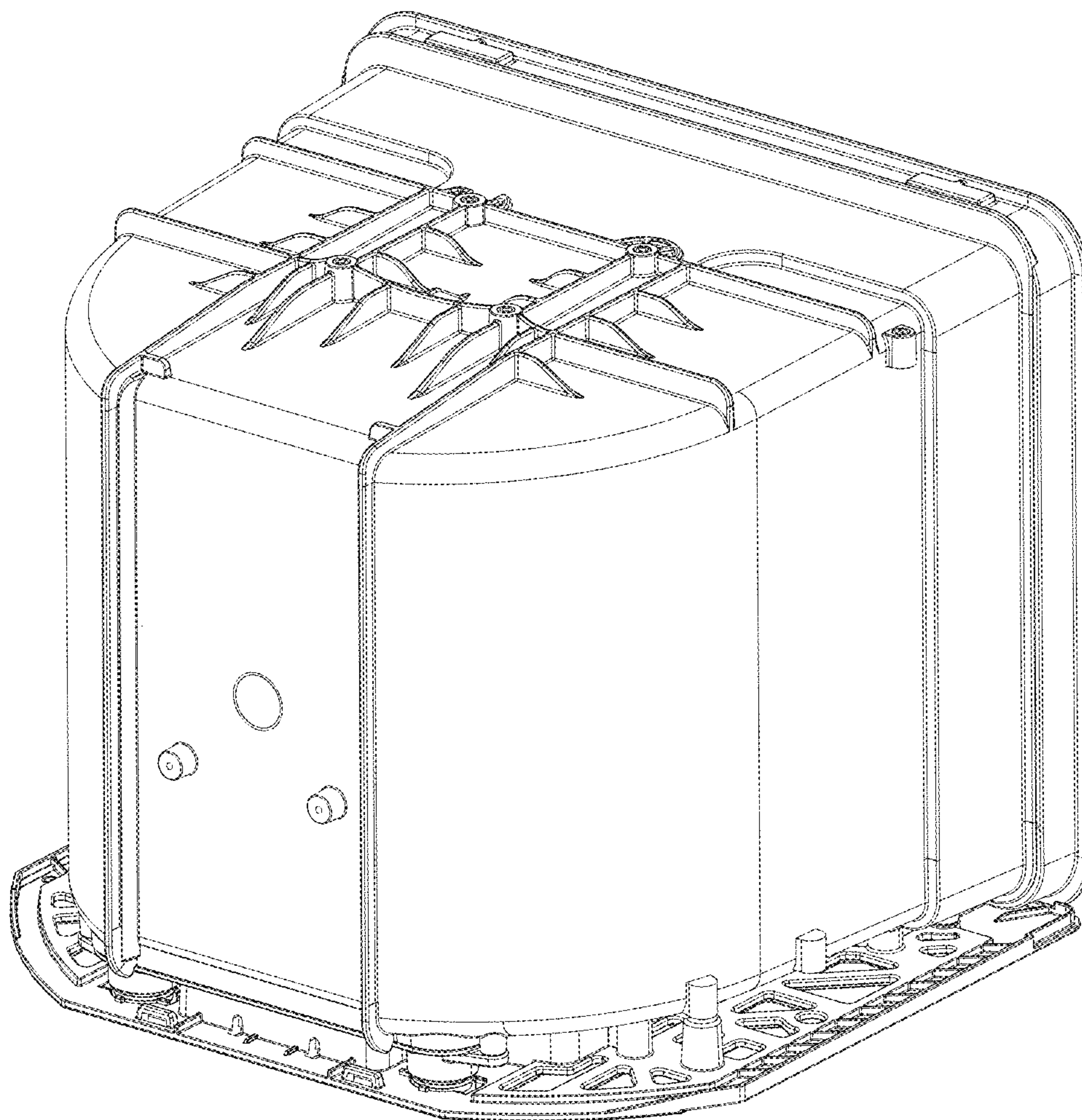


FIG. 36

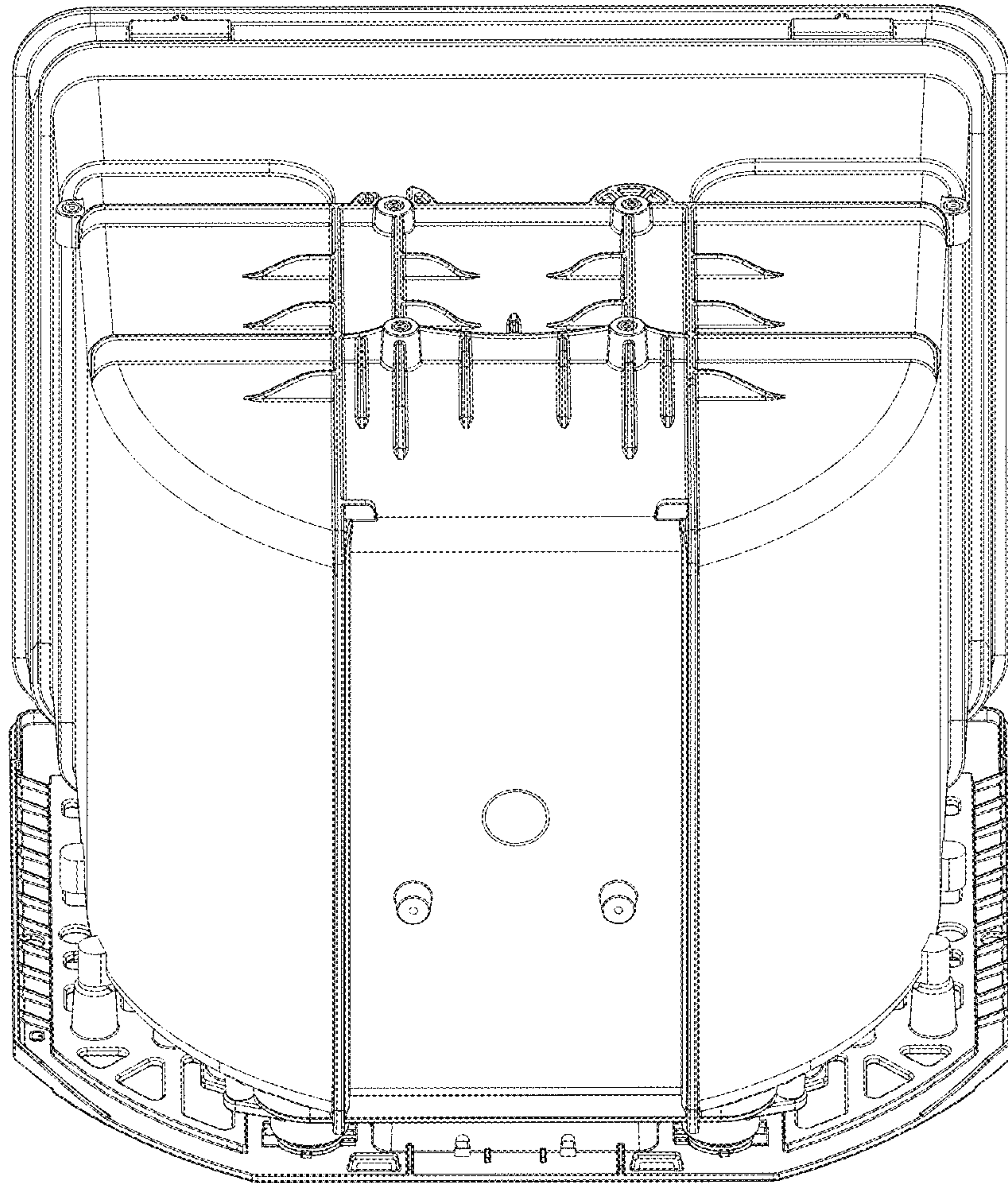


FIG. 37