



US00D833391S

(12) **United States Design Patent** (10) **Patent No.:** **US D833,391 S**
Claeys (45) **Date of Patent:** **** Nov. 13, 2018**

(54) **CURRENT TRANSDUCER**

- (71) Applicant: **LEM Intellectual Property SA**,
Fribourg (CH)
- (72) Inventor: **Stephane Claeys**, Chevrier (FR)
- (73) Assignee: **LEM INTELLECTUAL PROPERTY SA**, Fribourg (CH)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/626,885**
- (22) Filed: **Nov. 21, 2017**

Related U.S. Application Data

- (62) Division of application No. 29/516,496, filed on Feb. 3, 2015, now Pat. No. Des. 812,001.

(30) **Foreign Application Priority Data**

- Aug. 27, 2014 (WO) 835662601
- (51) **LOC (11) Cl.** **13-02**
- (52) **U.S. Cl.**
USPC **D13/110**
- (58) **Field of Classification Search**
USPC D13/110, 101, 117, 123, 124, 159, 182,
D13/184, 199; D10/75; 73/767, 771,
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D219,597 S * 12/1970 Smith D13/110
 - D260,635 S * 9/1981 Lockwood D13/110
- (Continued)

FOREIGN PATENT DOCUMENTS

- CN 03303685.3 8/2003
 - DM 062779 1/2003
- (Continued)

OTHER PUBLICATIONS

Notice of Allowance for U.S. Appl. No. 29/626,890 dated May 11, 2018.

Primary Examiner — Derrick Holland
(74) *Attorney, Agent, or Firm* — Harness, Dickey & Pierce, P.L.C.

(57) **CLAIM**

The ornamental design for a current transducer, as shown and described.

DESCRIPTION

FIG. 1 is a bottom front perspective view of a first embodiment of a current transducer showing my new design; FIG. 2 is a top rear perspective view thereof; FIG. 3 is a front view thereof; FIG. 4 is a rear view thereof; FIG. 5 is a left side View thereof; FIG. 6 is a right side view thereof; FIG. 7 is a top plan view thereof; and FIG. 8 is a bottom plan view thereof. FIG. 9 is a bottom front perspective view of a second embodiment of a current transducer showing my new design; FIG. 10 is a top rear perspective view thereof; FIG. 11 is a front view thereof; FIG. 12 is a rear view thereof; FIG. 13 is a left side View thereof; FIG. 14 is a right side view thereof; FIG. 15 is a top plan view thereof; and FIG. 16 is a bottom plan view thereof. FIG. 17 is a bottom front perspective view of a third embodiment of a current transducer showing my new design; FIG. 18 is a top rear perspective view thereof; FIG. 19 is a front view thereof; FIG. 20 is a rear view thereof; FIG. 21 is a left side View thereof; FIG. 22 is a right side view thereof; and FIG. 23 is a top plan view thereof; and

(Continued)

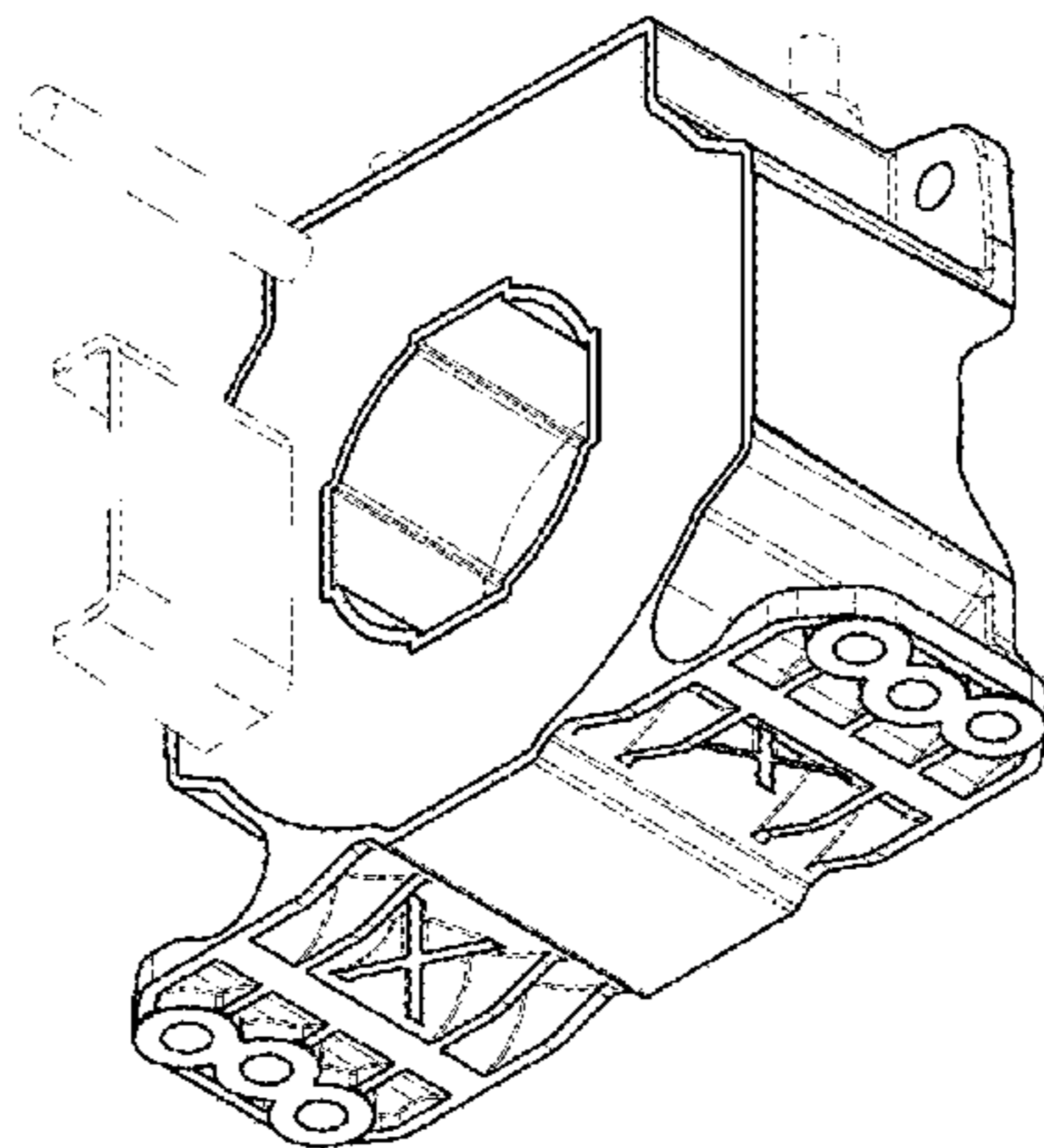


FIG. 24 is a bottom plan view thereof.
 FIG. 25 is a bottom front perspective view of a fourth embodiment of a current transducer showing my new design;
 FIG. 26 is a top rear perspective view thereof;
 FIG. 27 is a front view thereof;
 FIG. 28 is a rear view thereof;
 FIG. 29 is a left side View thereof;
 FIG. 30 is a right side view thereof;
 FIG. 31 is a top plan view thereof; and
 FIG. 32 is a bottom plan view thereof.
 FIG. 33 is a bottom front perspective view of a fifth embodiment of a current transducer showing my new design;
 FIG. 34 is a top rear perspective view thereof;
 FIG. 35 is a front view thereof;
 FIG. 36 is a rear view thereof;
 FIG. 37 is a left side View thereof;
 FIG. 38 is a right side view thereof;
 FIG. 39 is a top plan view thereof; and
 FIG. 40 is a bottom plan view thereof.
 FIG. 41 is a bottom front perspective view of a sixth embodiment of a current transducer showing my new design;
 FIG. 42 is a top rear perspective view thereof;
 FIG. 43 is a front view thereof;
 FIG. 44 is a rear view thereof;
 FIG. 45 is a left side View thereof;
 FIG. 46 is a right side view thereof;
 FIG. 47 is a top plan view thereof; and
 FIG. 48 is a bottom plan view thereof.
 FIG. 49 is a bottom front perspective view of a seventh embodiment of a current transducer showing my new design;
 FIG. 50 is a top rear perspective view thereof;
 FIG. 51 is a front view thereof;
 FIG. 52 is a rear view thereof;
 FIG. 53 is a left side View thereof;
 FIG. 54 is a right side view thereof;
 FIG. 55 is a top plan view thereof; and,
 FIG. 56 is a bottom plan view thereof.

The broken lines depict environmental subject matter only and form no part of the claimed design.

1 Claim, 22 Drawing Sheets

(58) **Field of Classification Search**

USPC 73/779, 801, 811; 324/117 H, 117 R, 324/120, 121 R, 127; 361/18, 30, 31, 361/93.1-93.9; 367/140; 369/13.11-13.13; 381/150; 336/173, 336/176, 178
 CPC H01R 13/5812; G01R 33/06; G01R 15/20; G01R 15/202; G01R 19/18; G01R 19/20; G01R 19/22; G01R 19/0084; G01R 19/0092; G01R 19/00; G01R 5/20; G01R 5/22; G01R 5/24; G01R 5/26
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D260,877	S	9/1981	Scott et al.	
D288,314	S	2/1987	Makinson et al.	
D494,078	S	8/2004	Vuillermoz	
D534,120	S	12/2006	Ricci et al.	
7,598,601	B2	10/2009	Taylor et al.	
D610,087	S	2/2010	Johnson	
D640,986	S *	7/2011	Gong	D13/154
D685,325	S	7/2013	Hayashi	
D685,734	S	7/2013	Sage	
D686,156	S	7/2013	Ye	
D688,626	S	8/2013	Ye	
8,587,399	B2	11/2013	Crutcher et al.	
D751,034	S	3/2016	Ye	
2009/0115403	A1 *	5/2009	Bernklau	G01R 15/186 324/127

FOREIGN PATENT DOCUMENTS

GB	3010841	2/2003
JP	1195975	12/2003
WO	WO-DM-062779	1/2003

* cited by examiner

FIG. 1

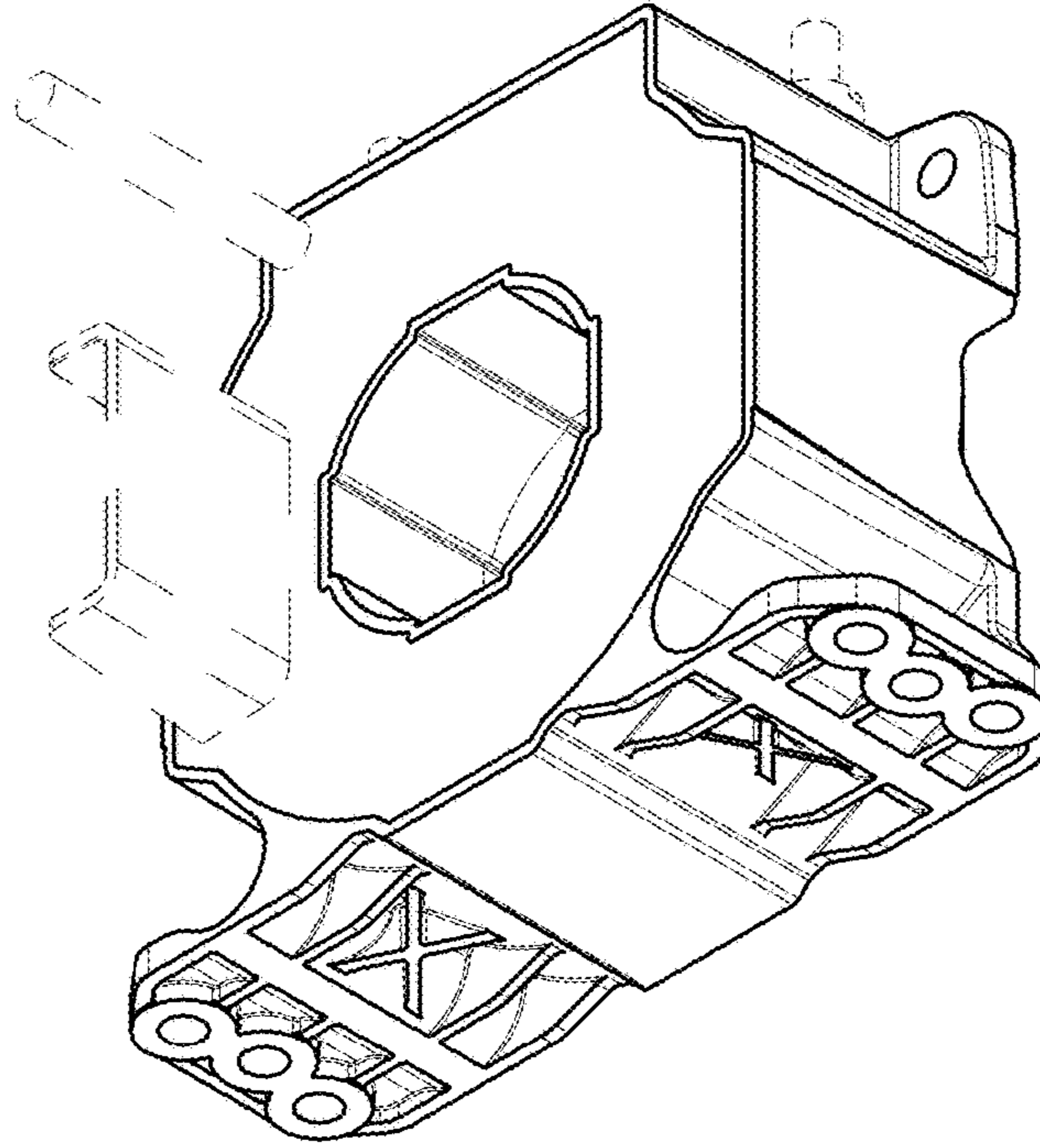


FIG. 2

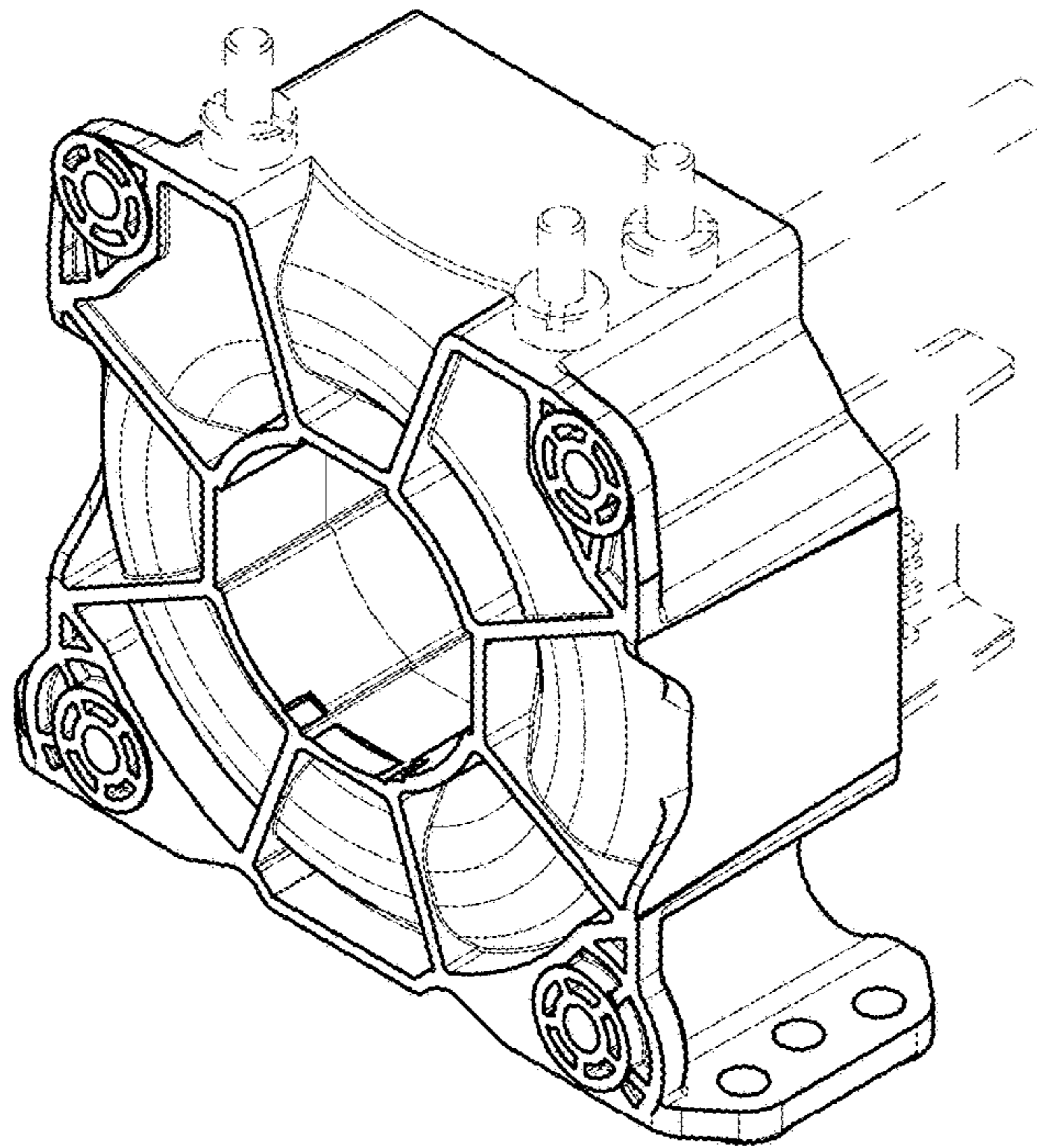


FIG. 3

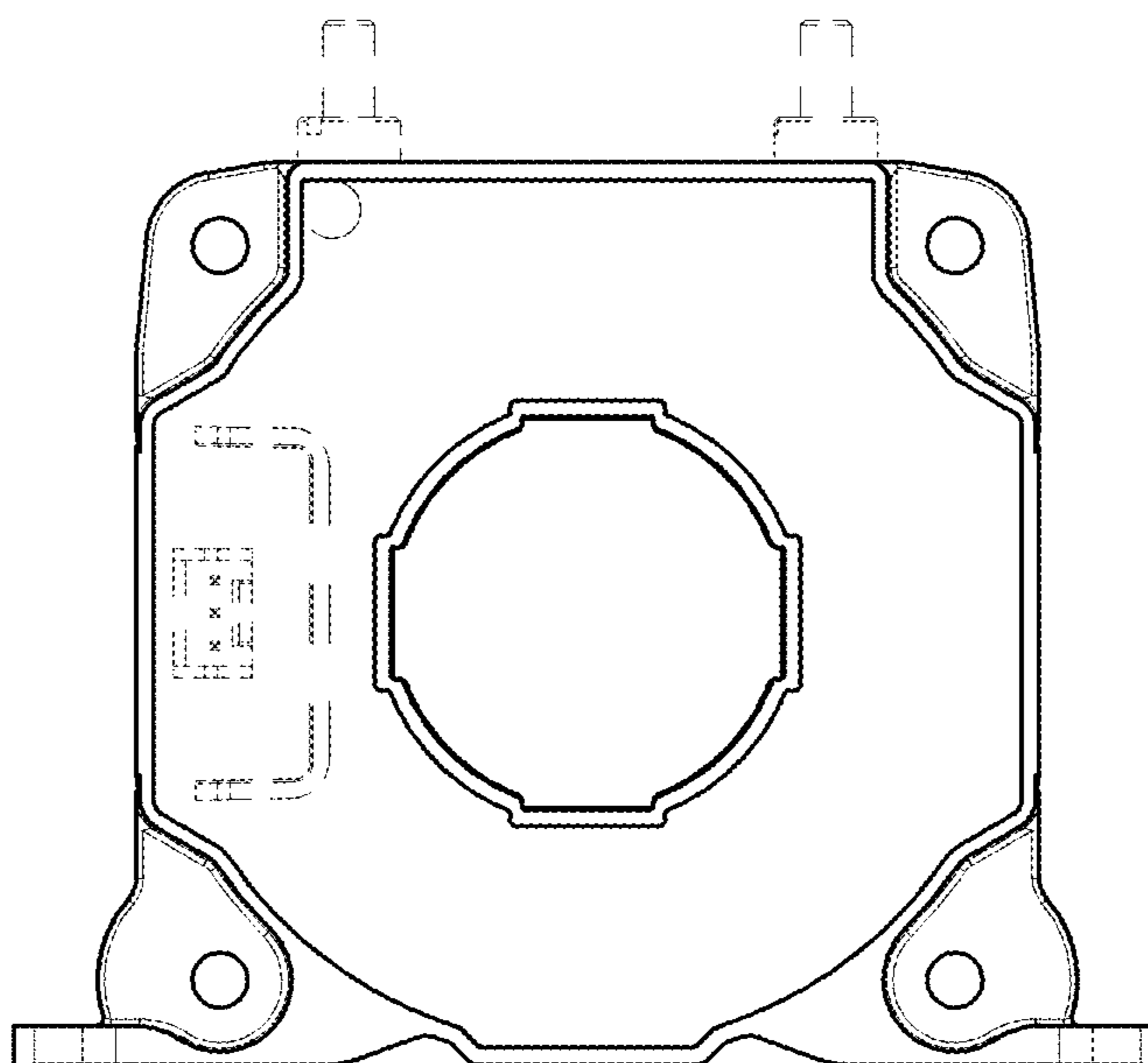


FIG. 4

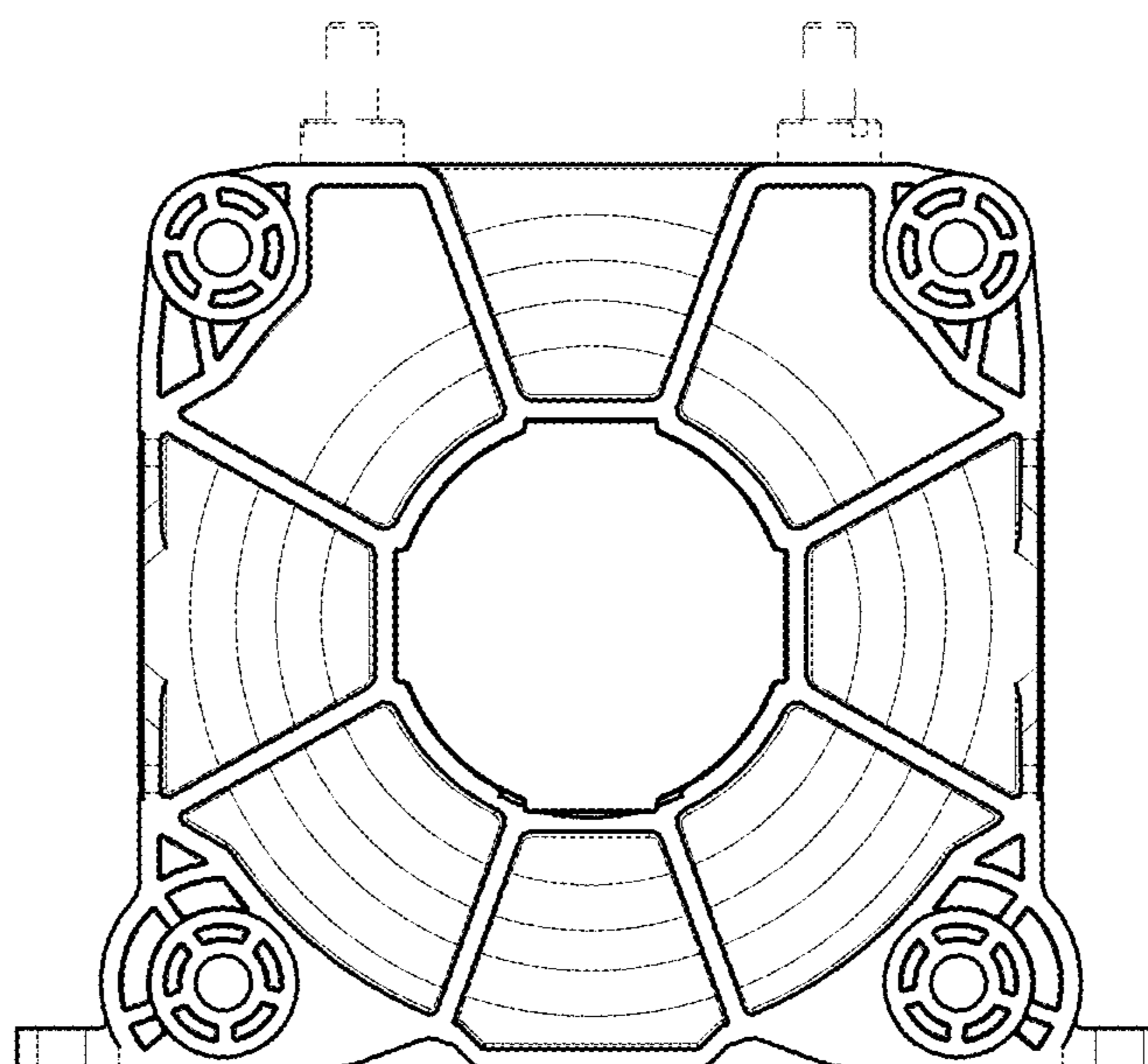


FIG. 5

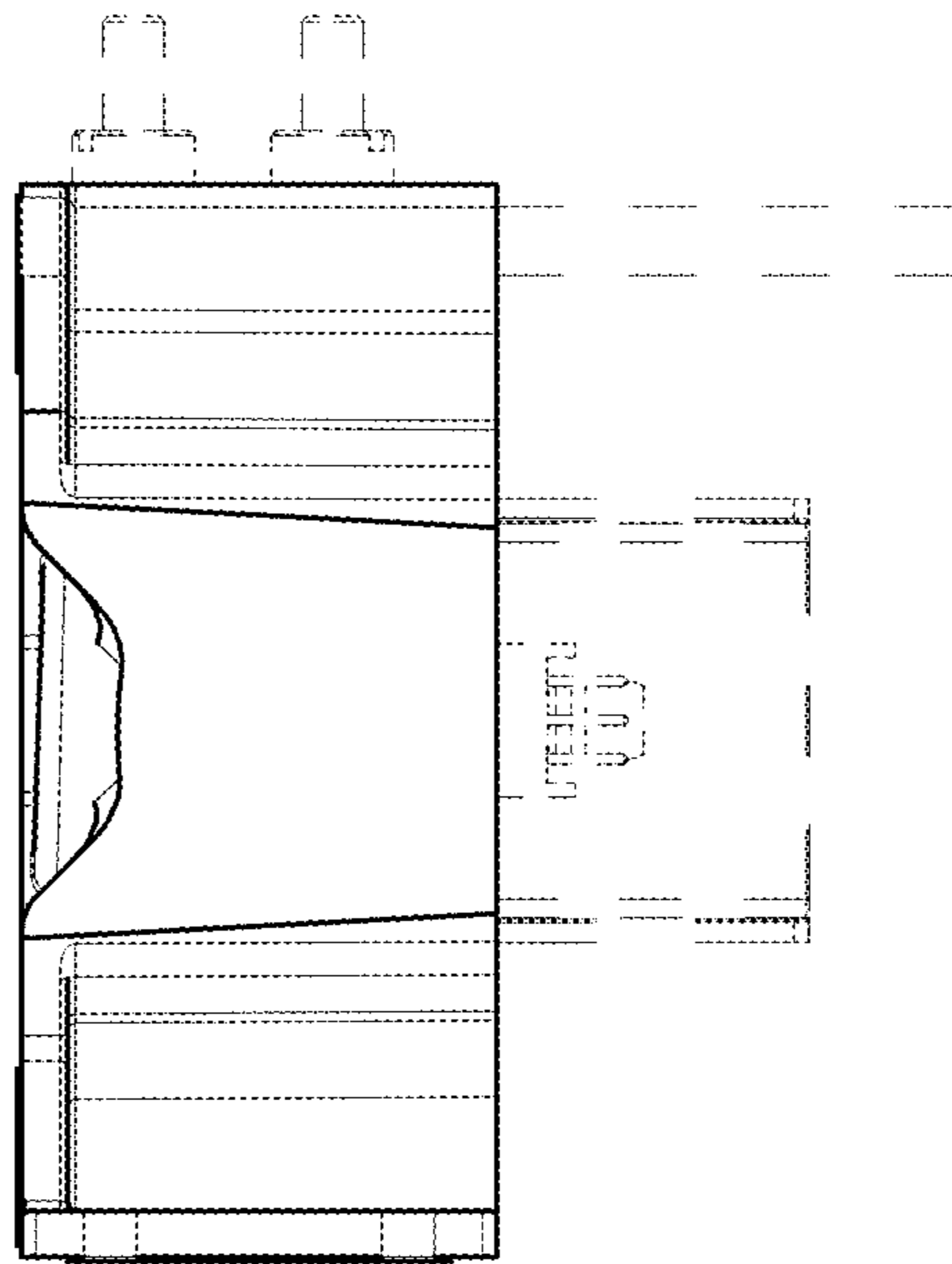
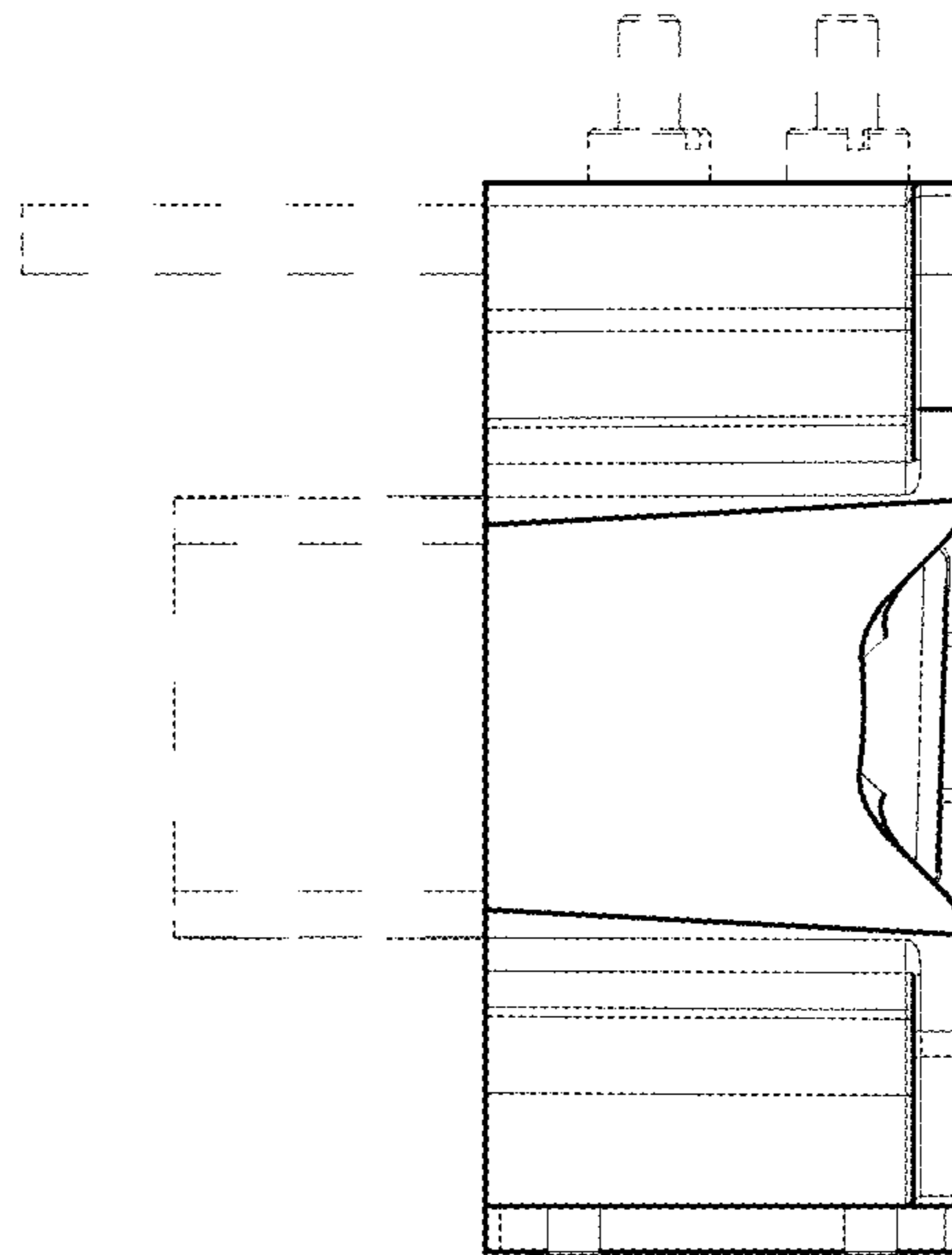


FIG. 6



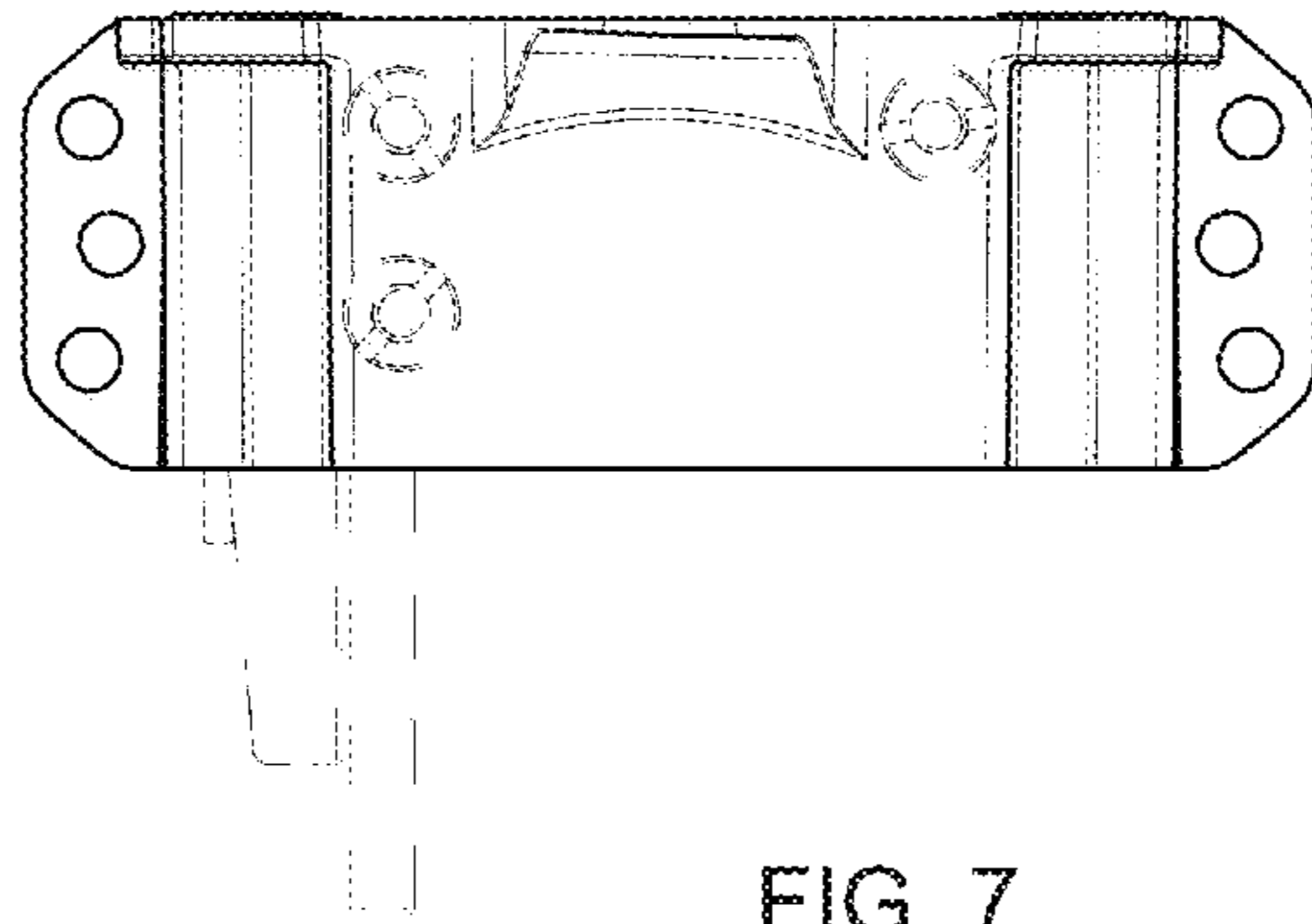


FIG. 7

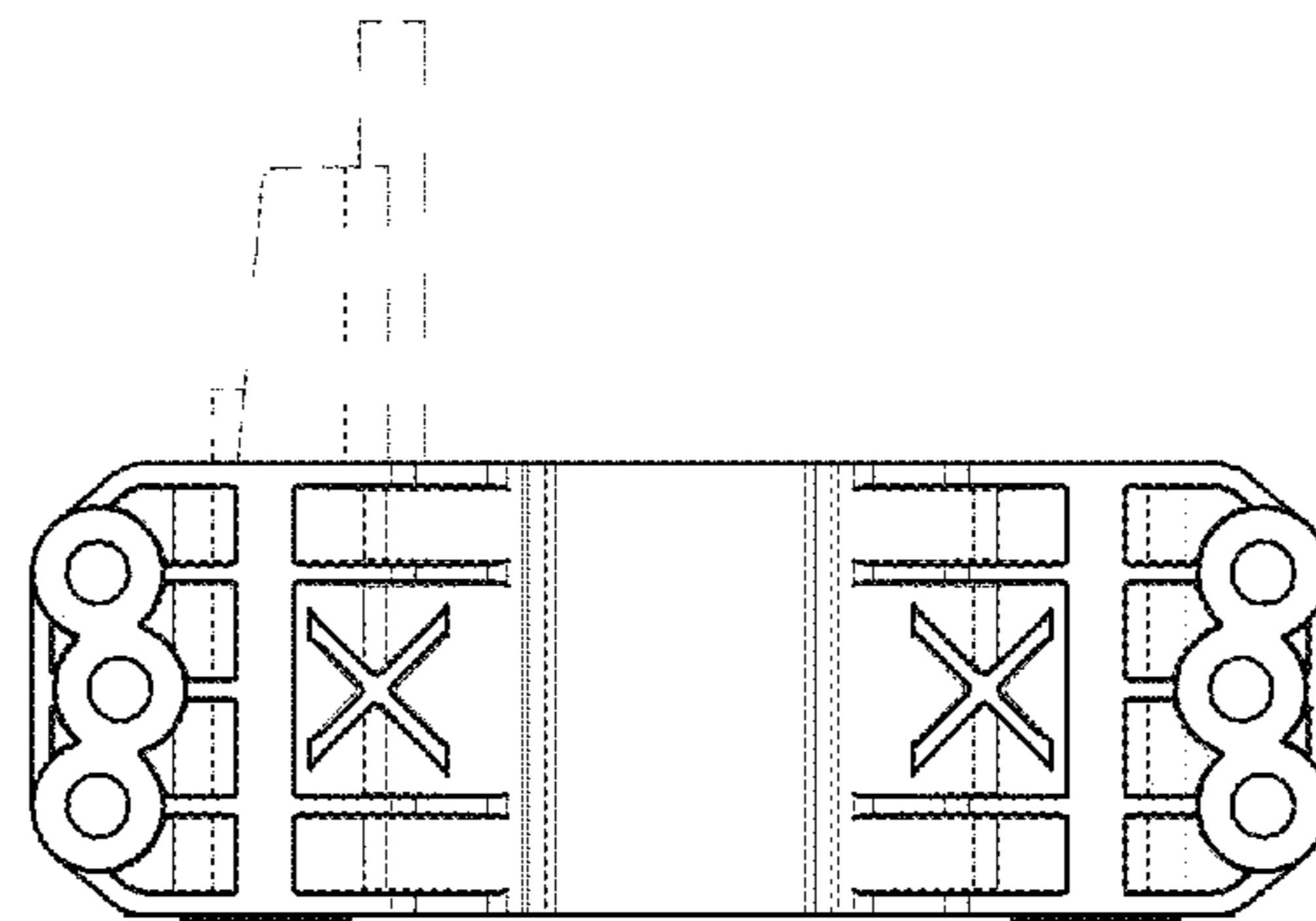


FIG. 8

FIG. 9

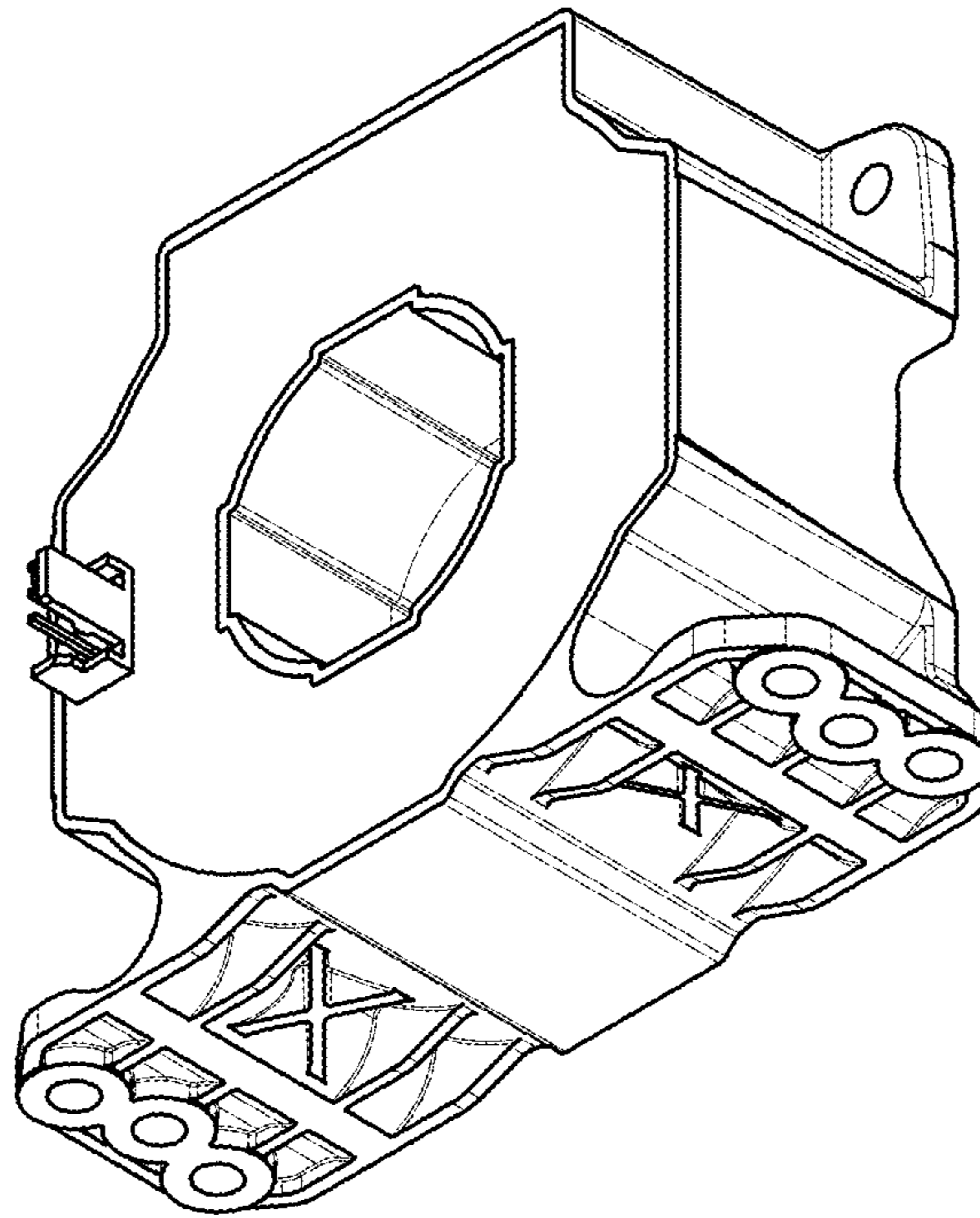


FIG. 10

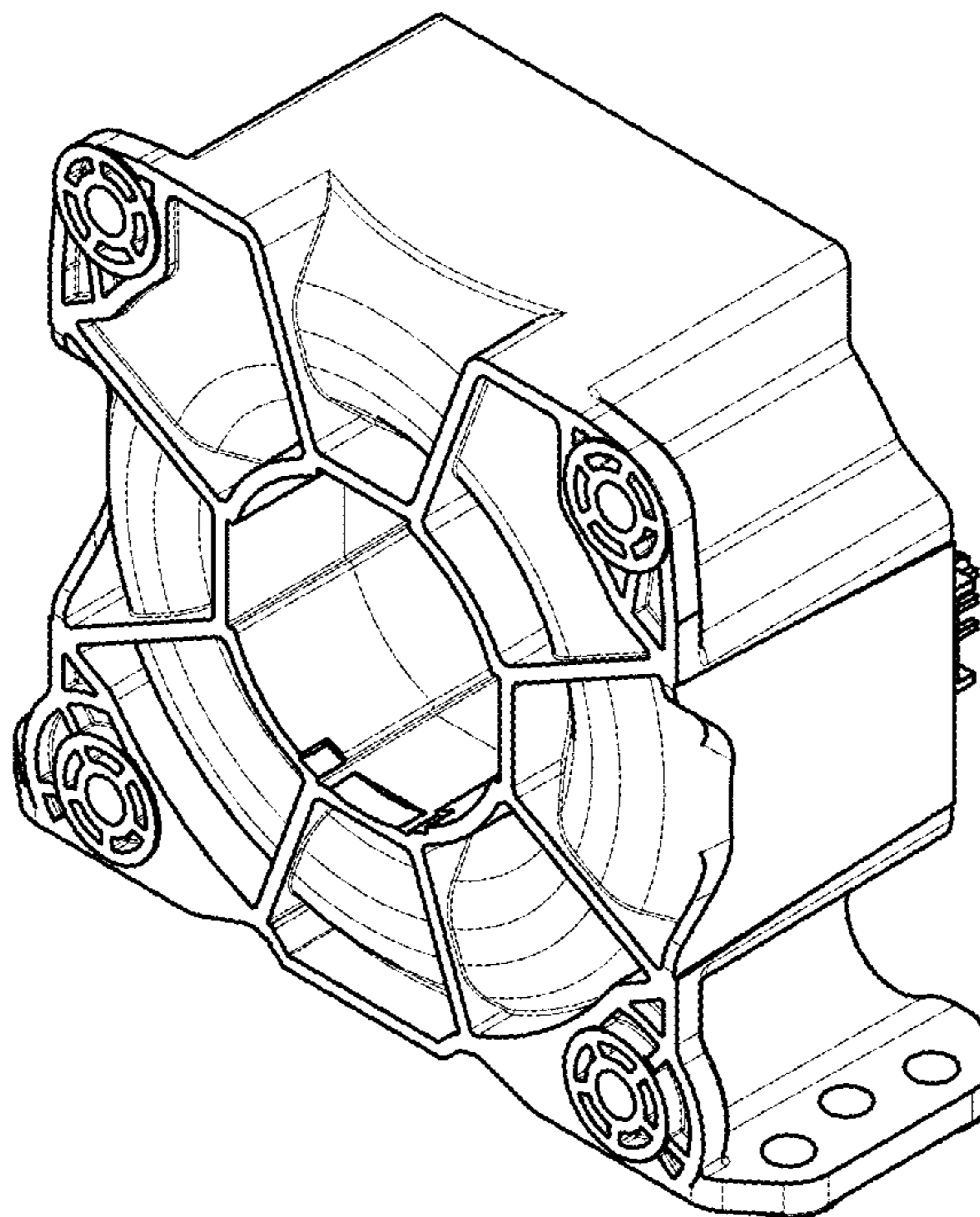


FIG. 11

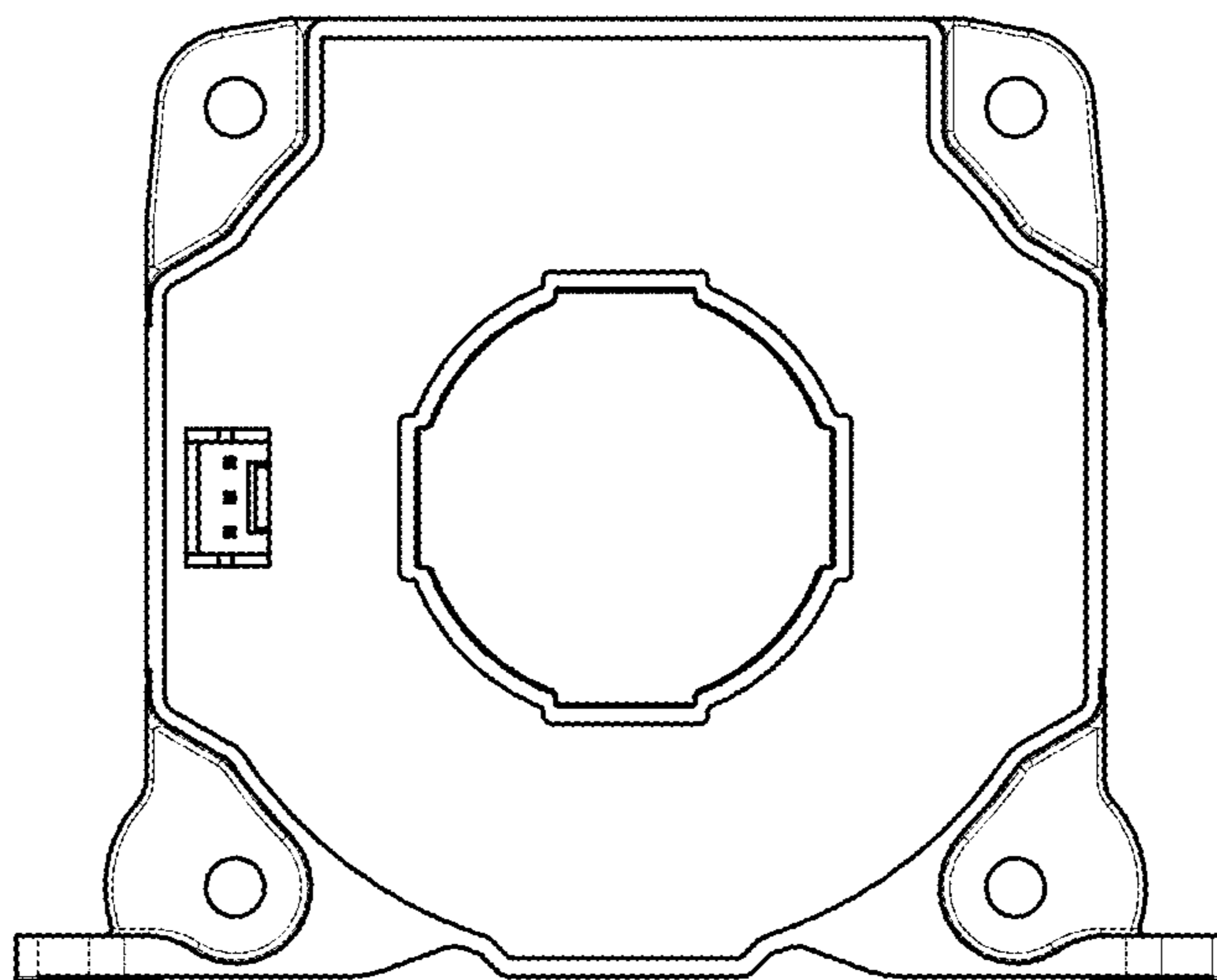
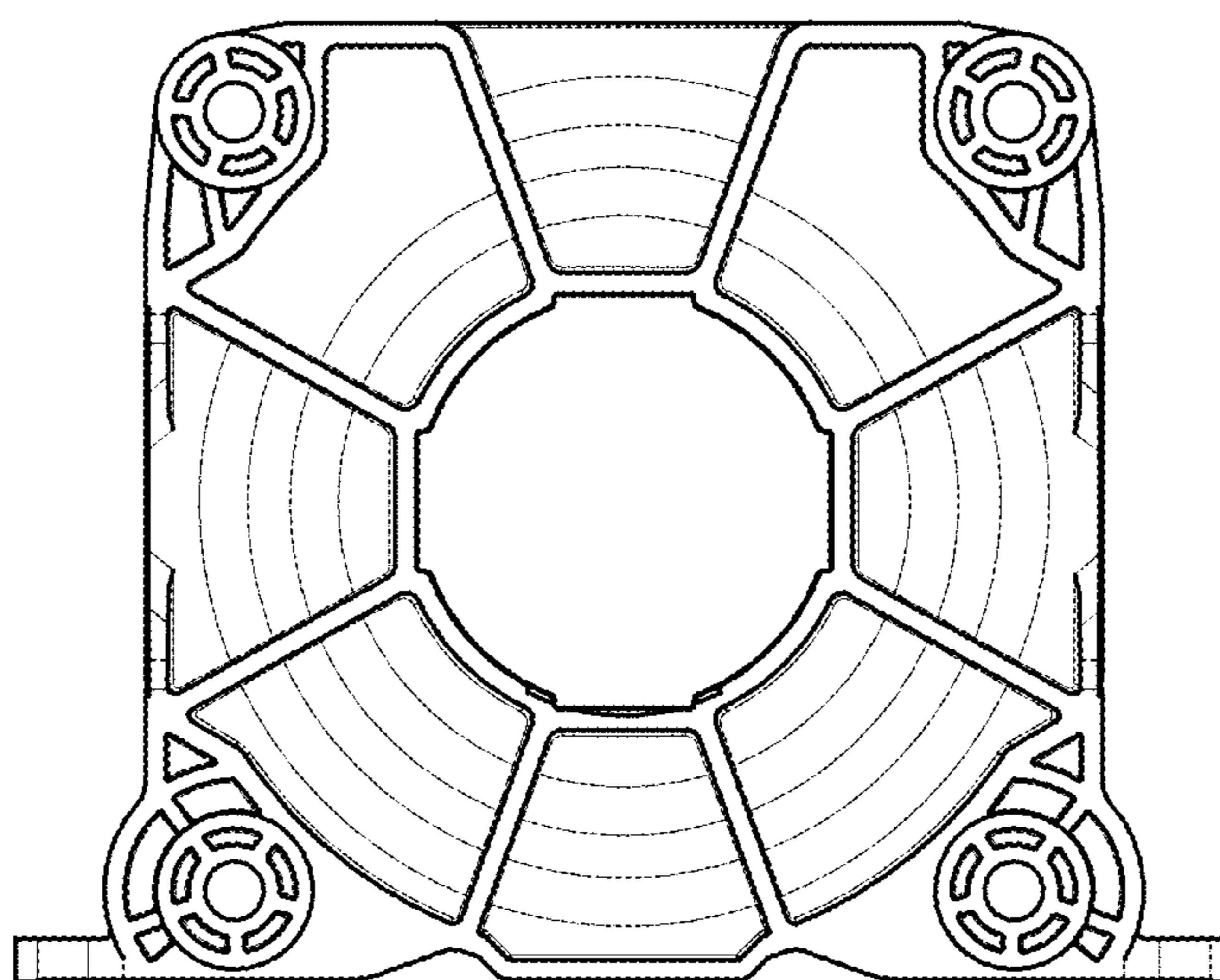


FIG. 12



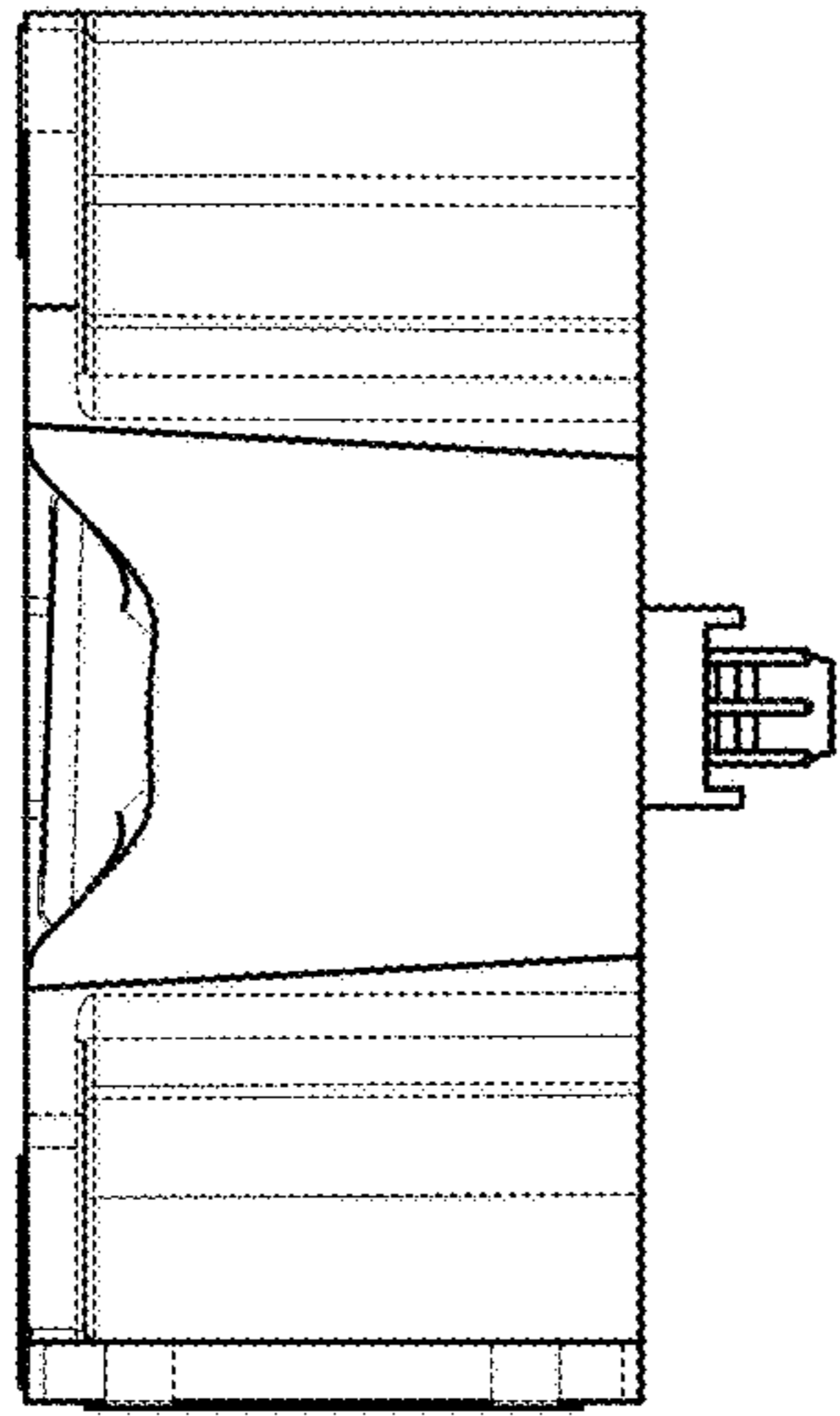


FIG. 13

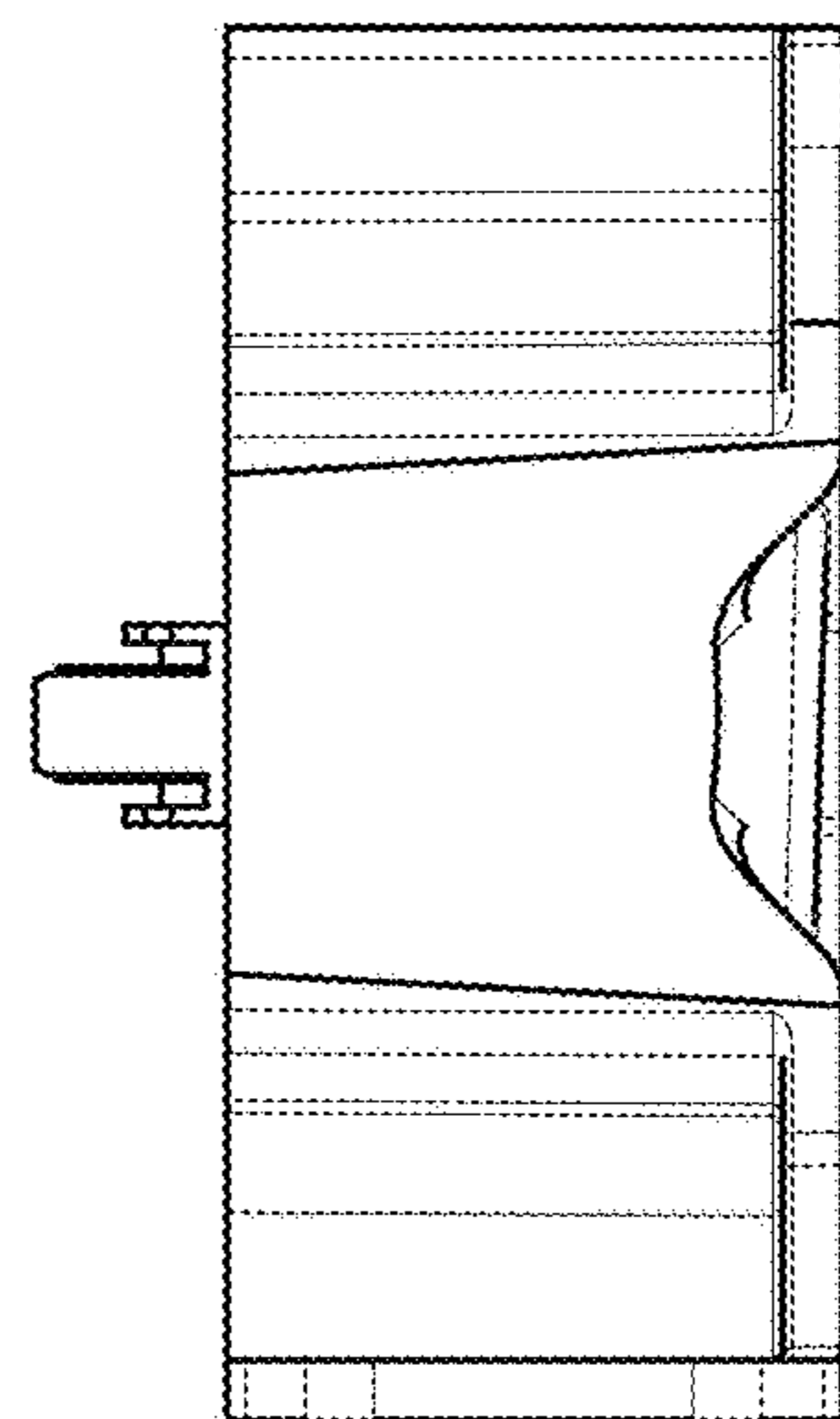


FIG. 14

FIG. 15

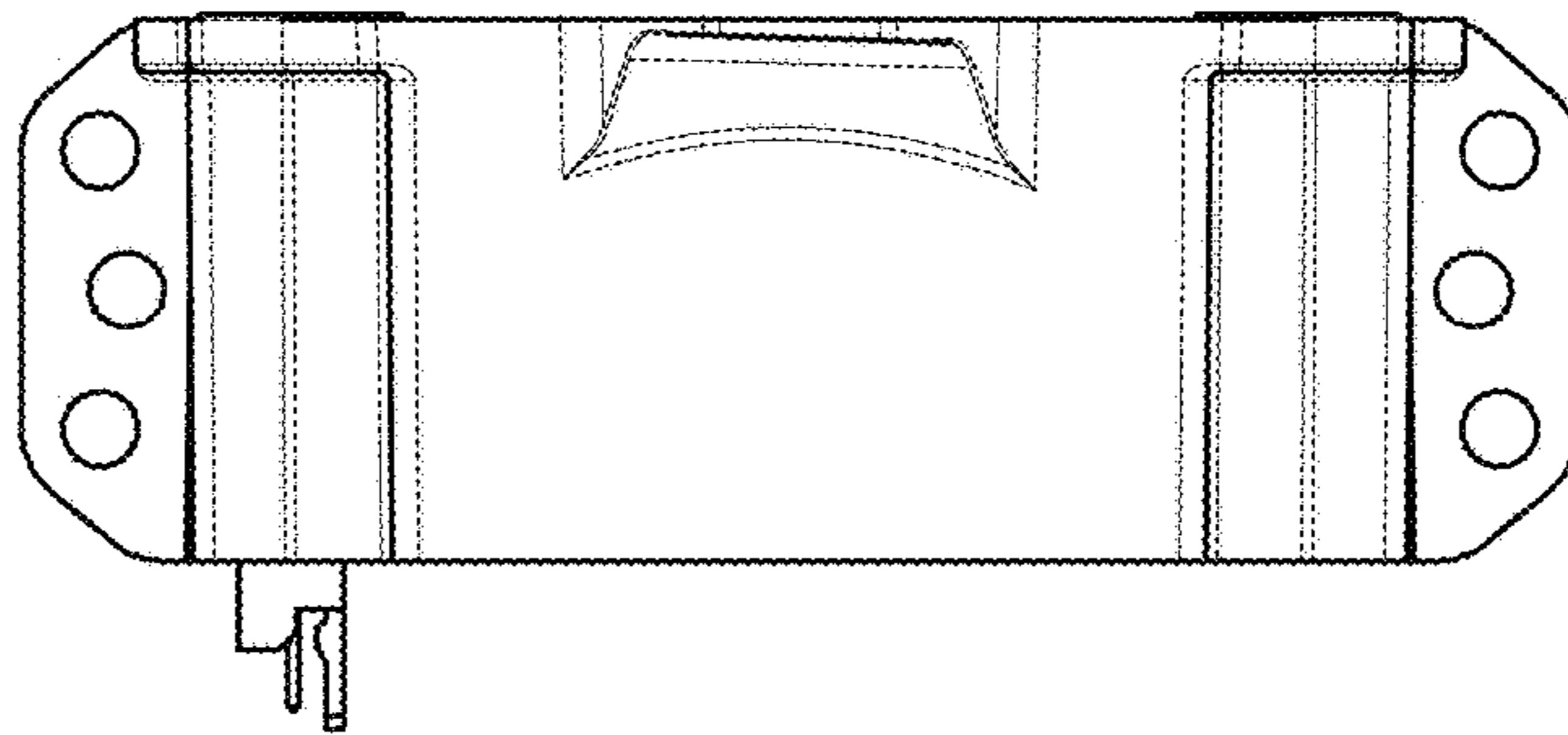


FIG. 16

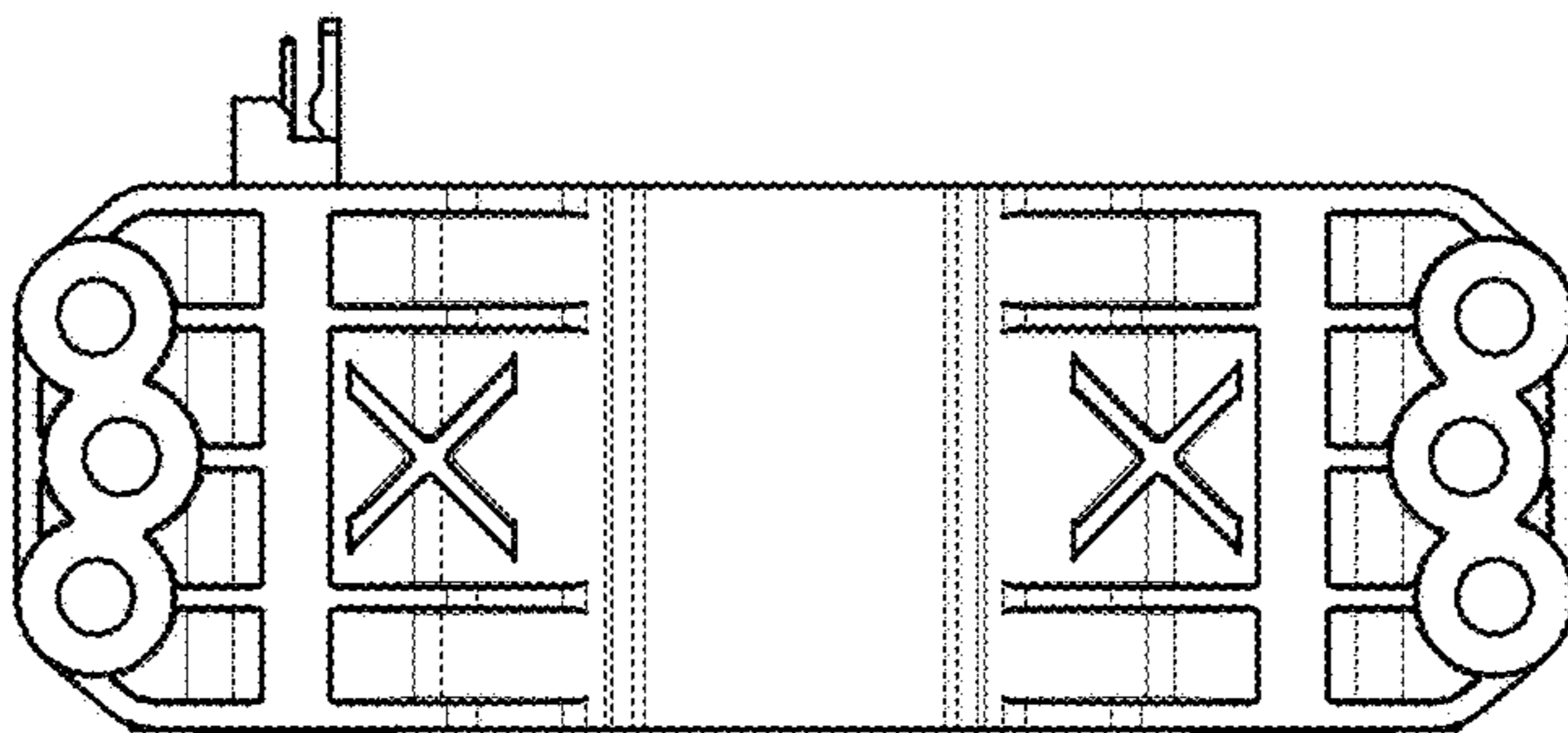


FIG. 17

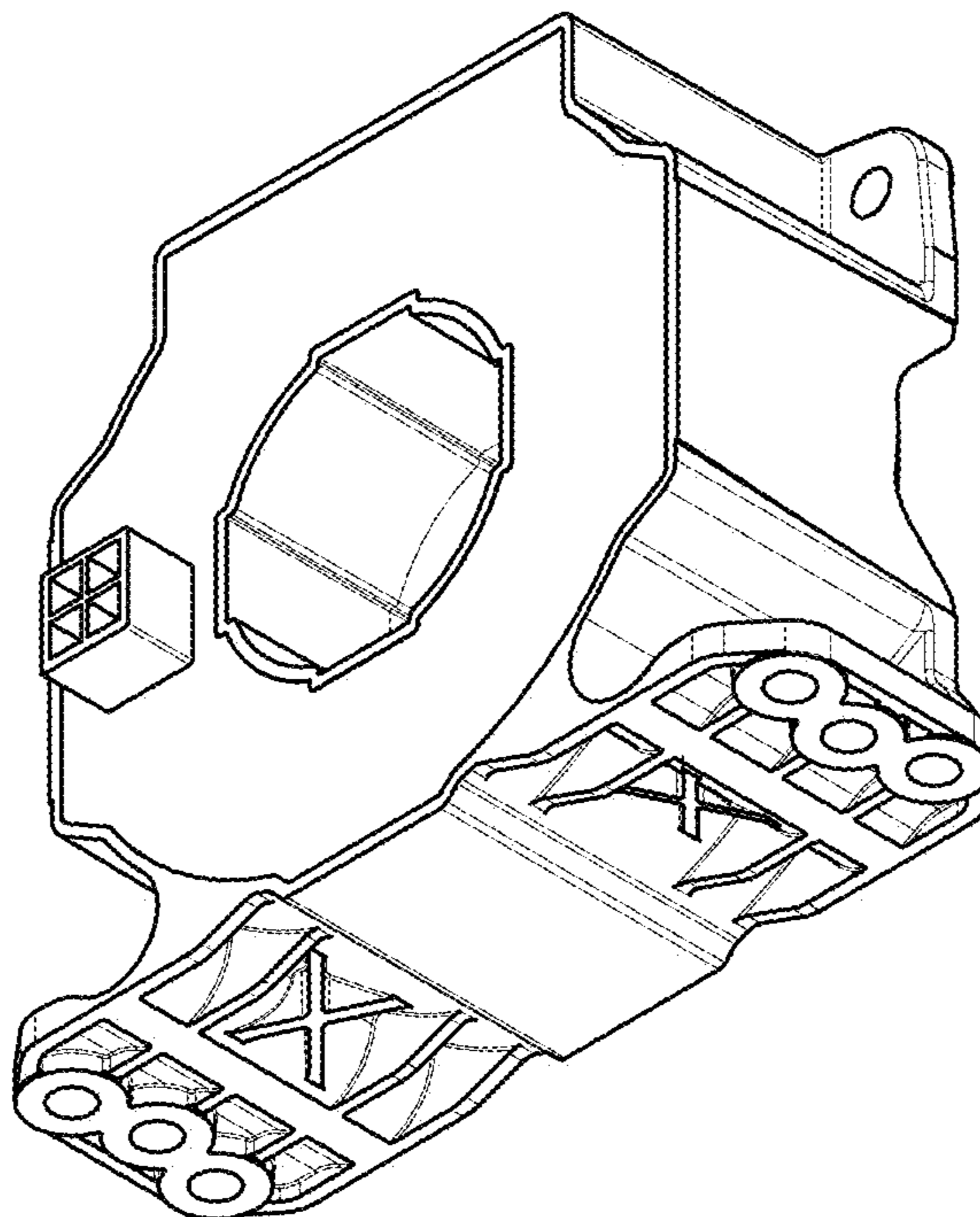


FIG. 18

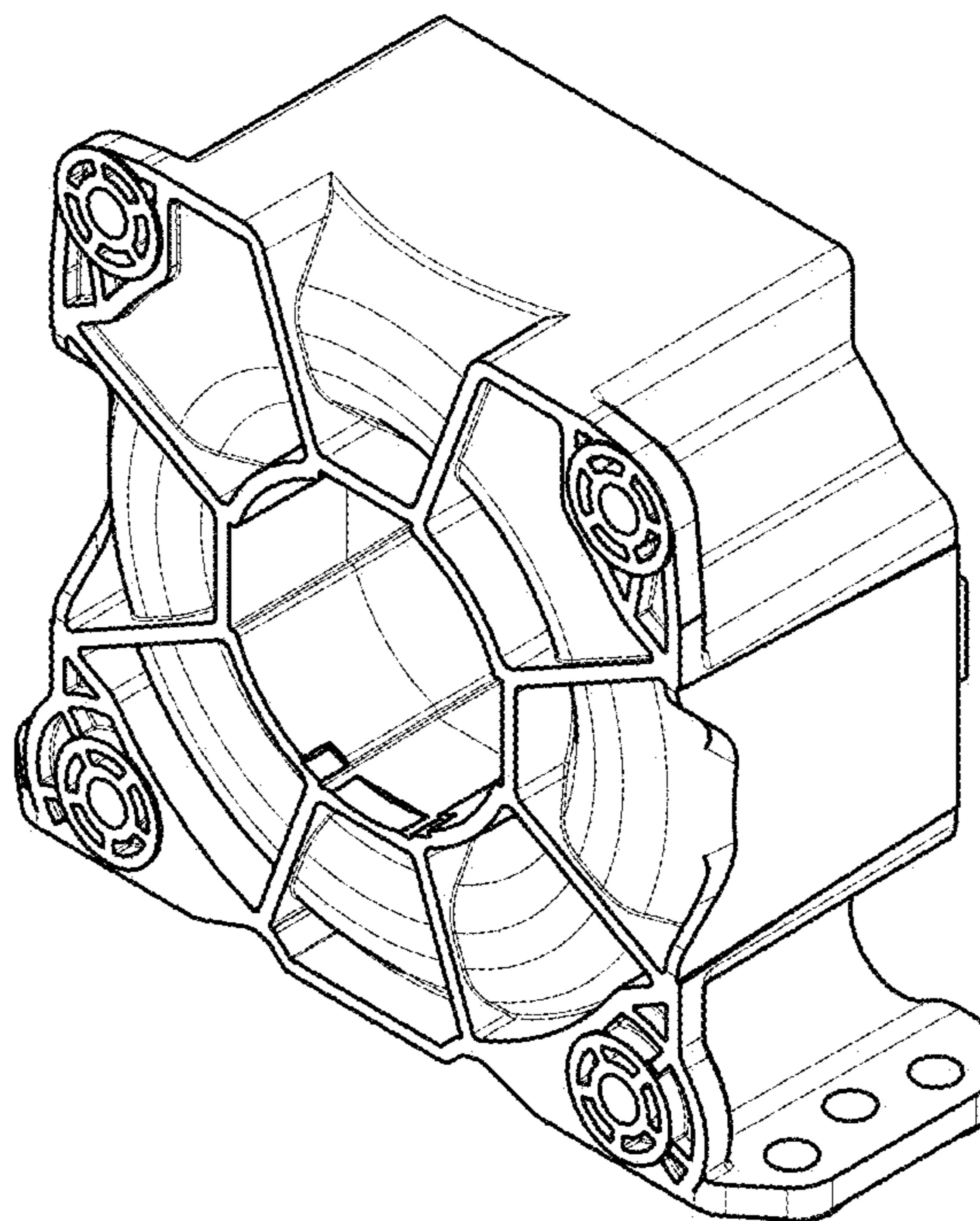


FIG. 19

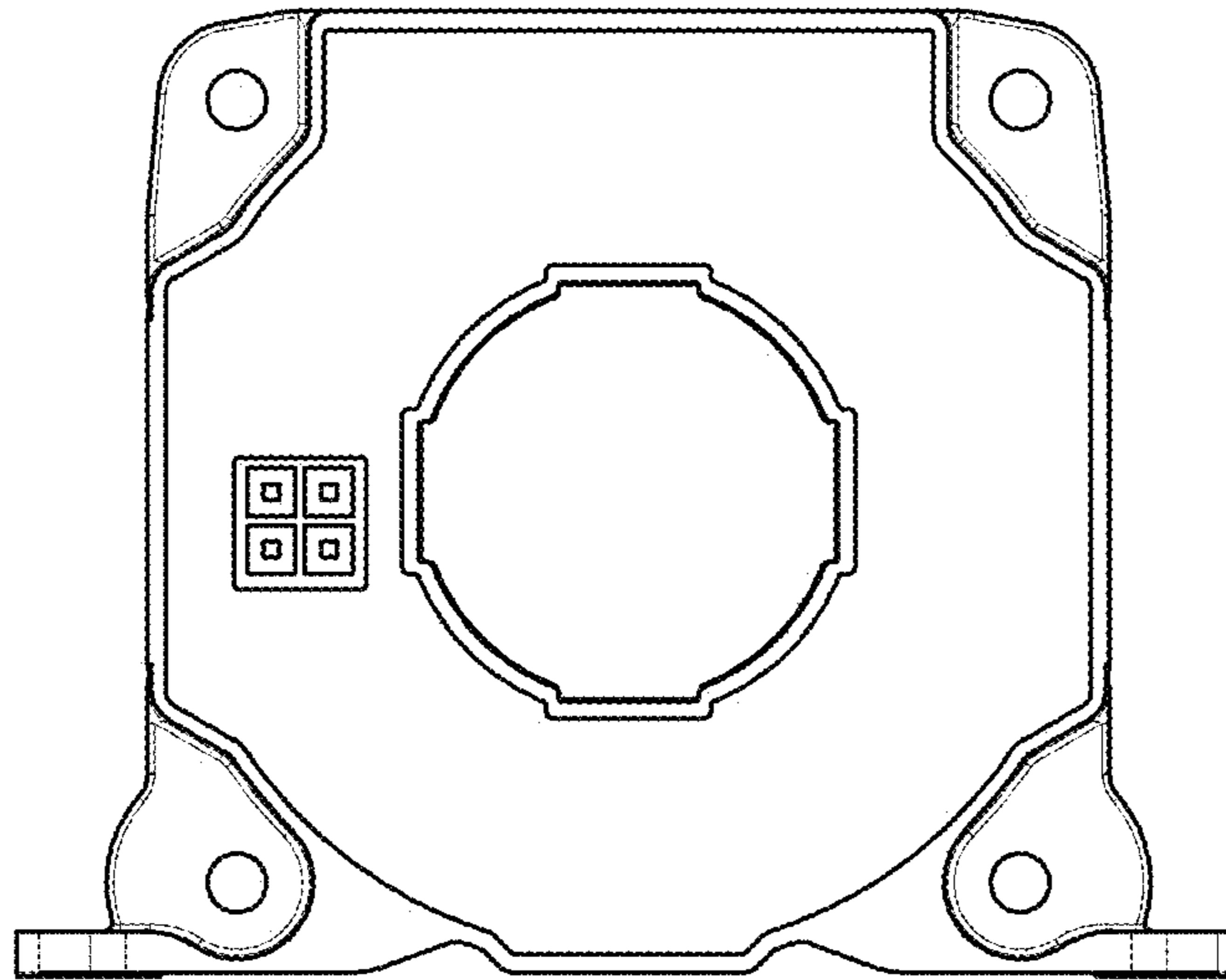
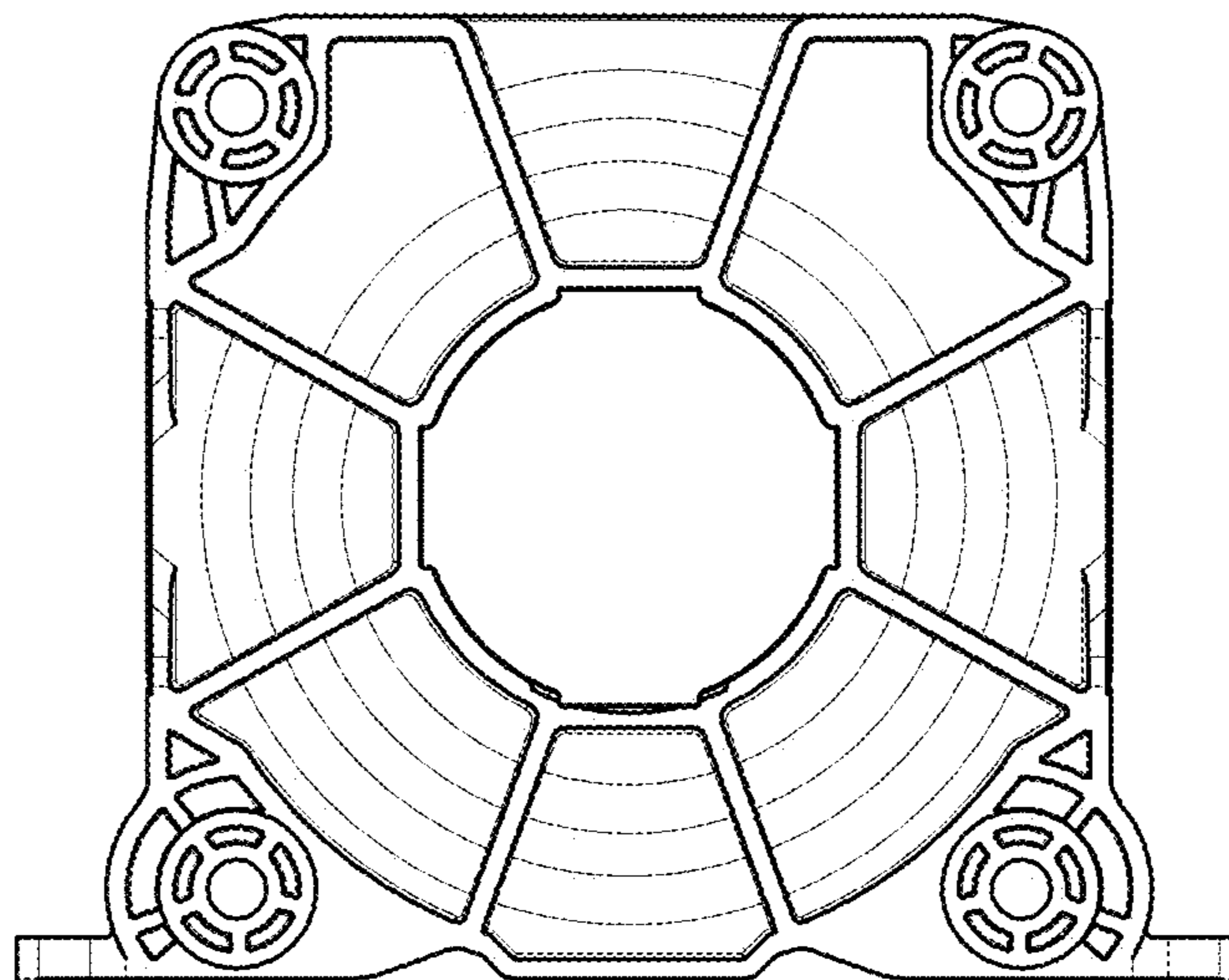


FIG. 20



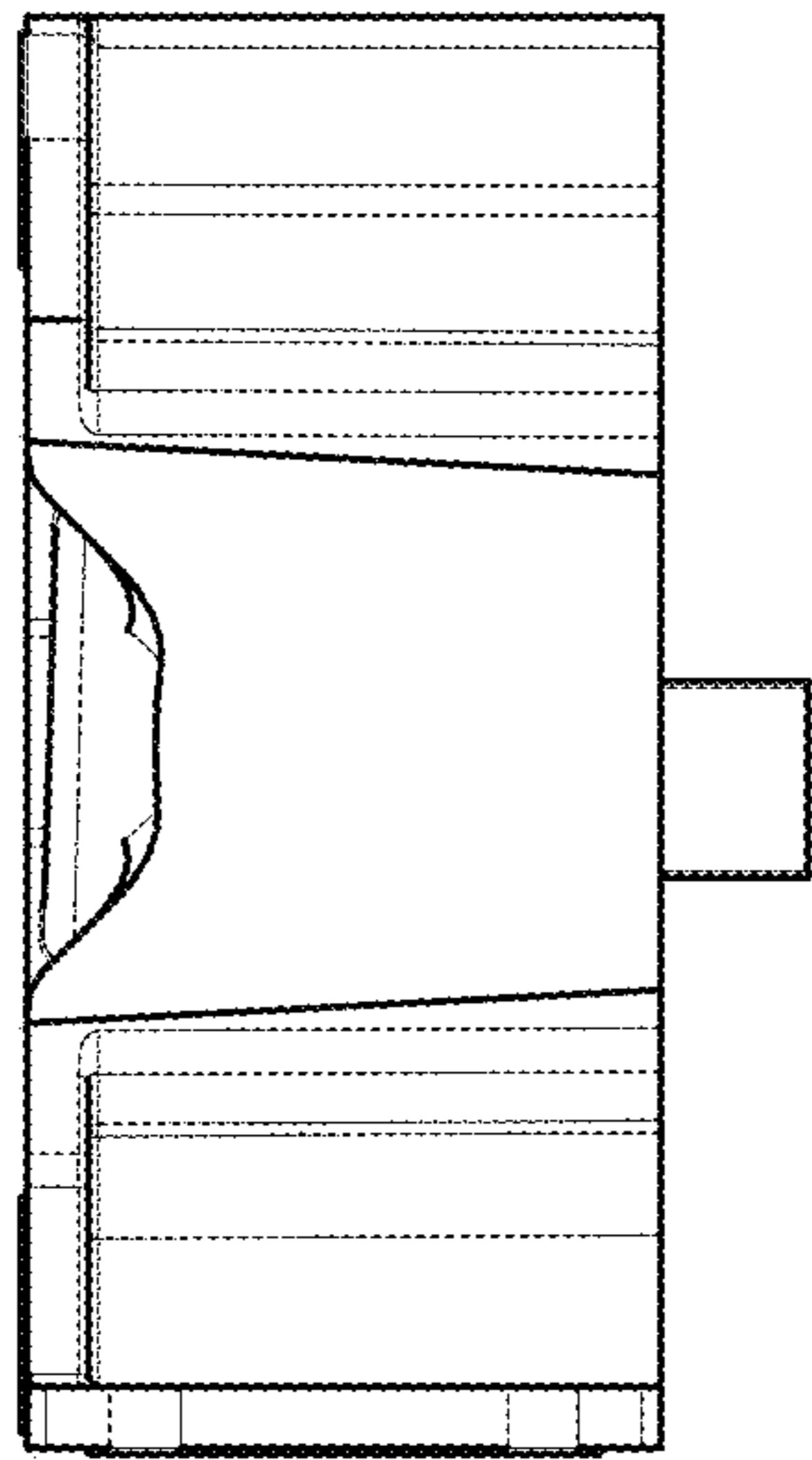


FIG. 21

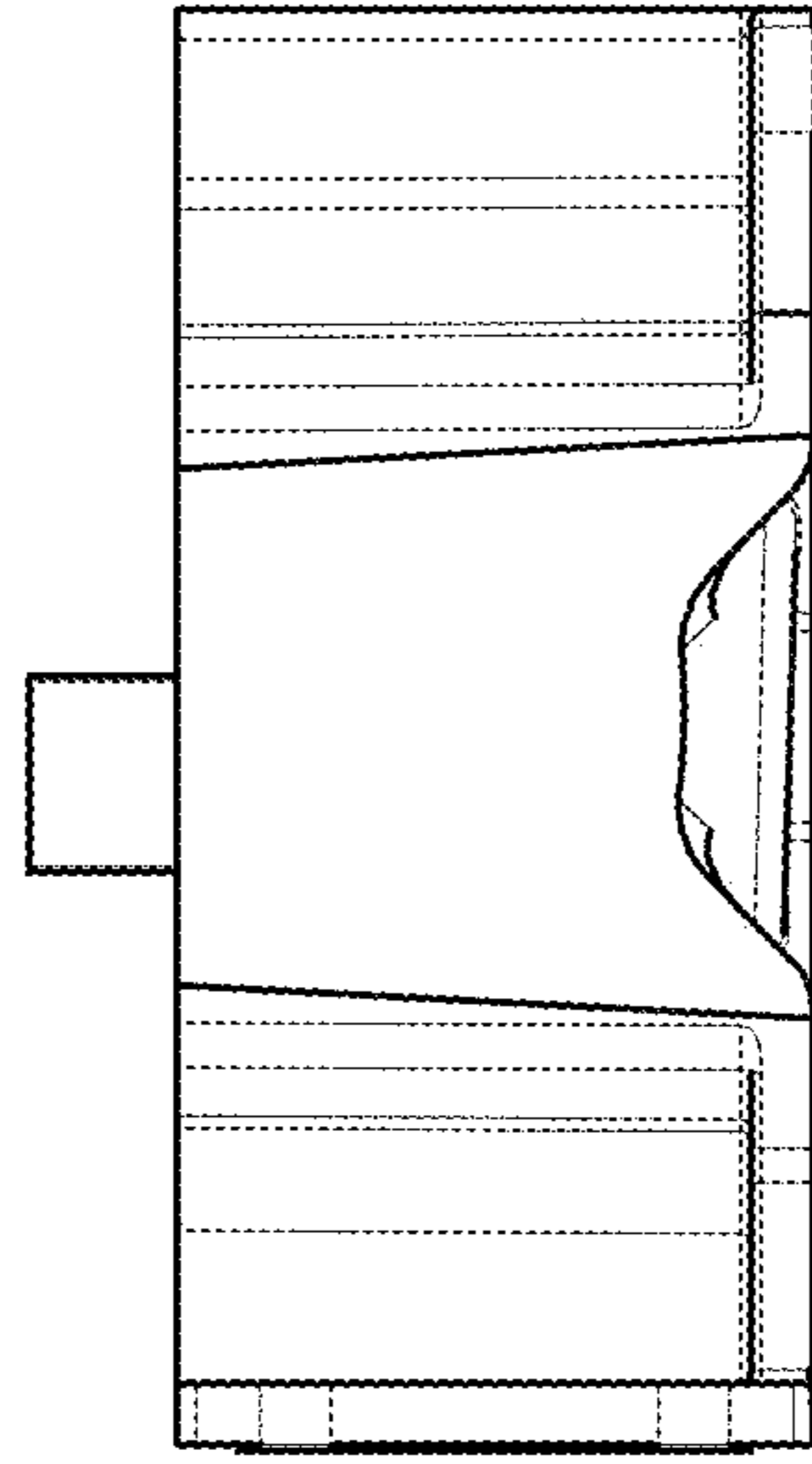


FIG. 22

FIG. 23

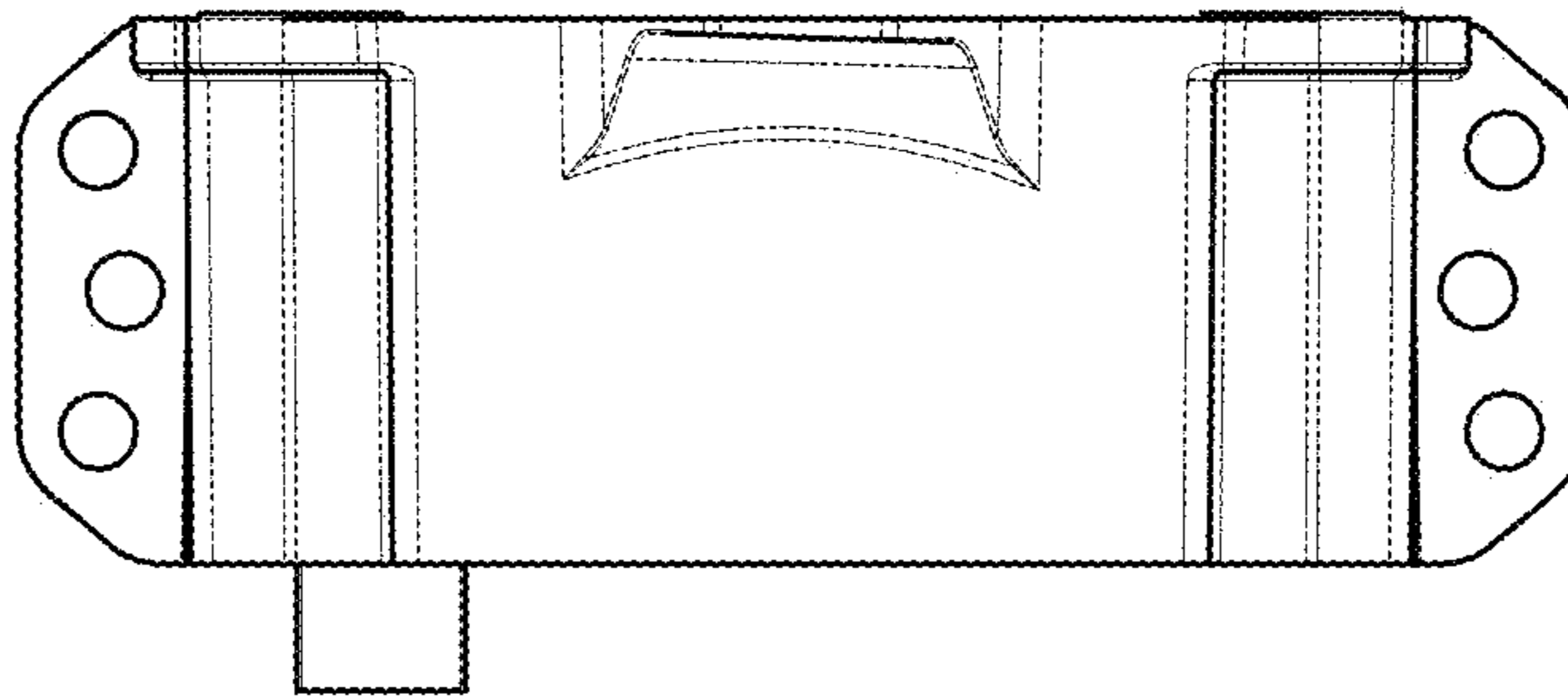


FIG. 24

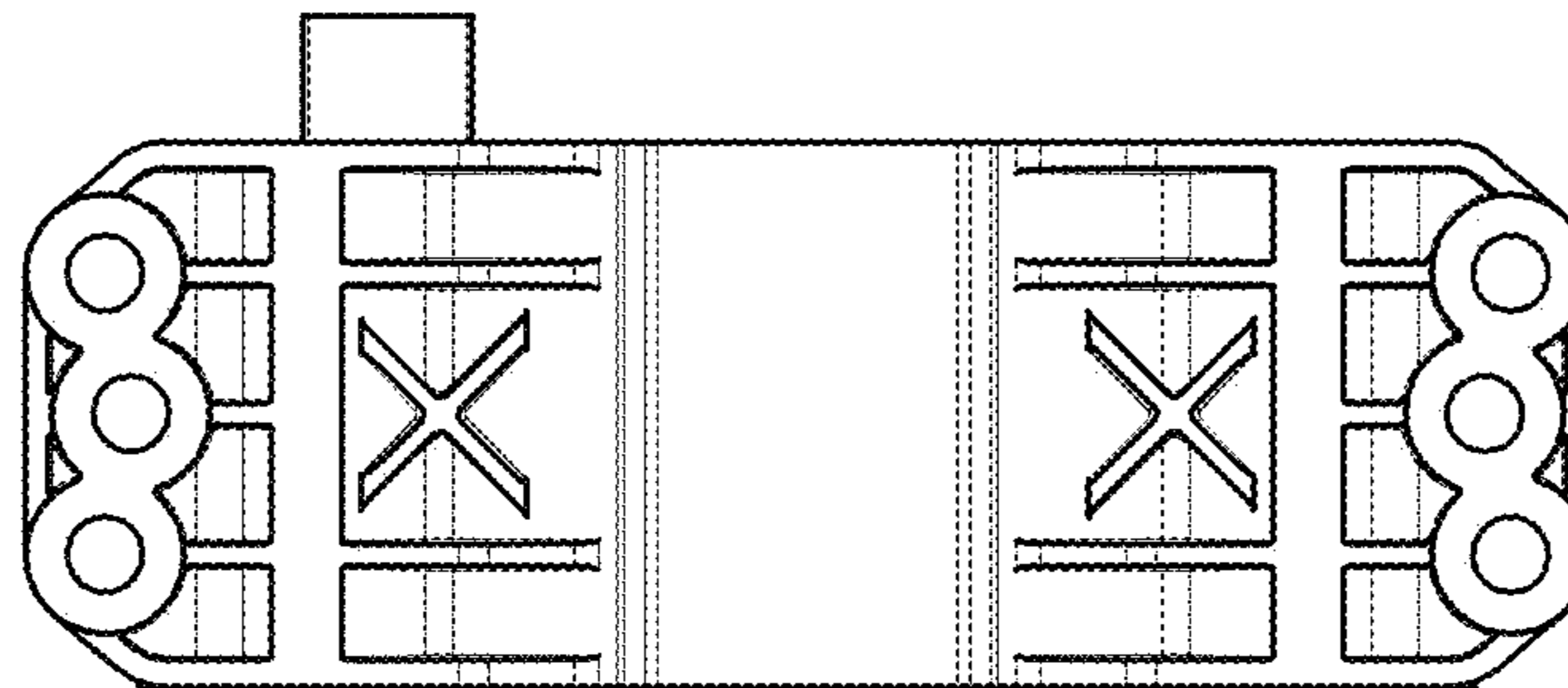


FIG. 25

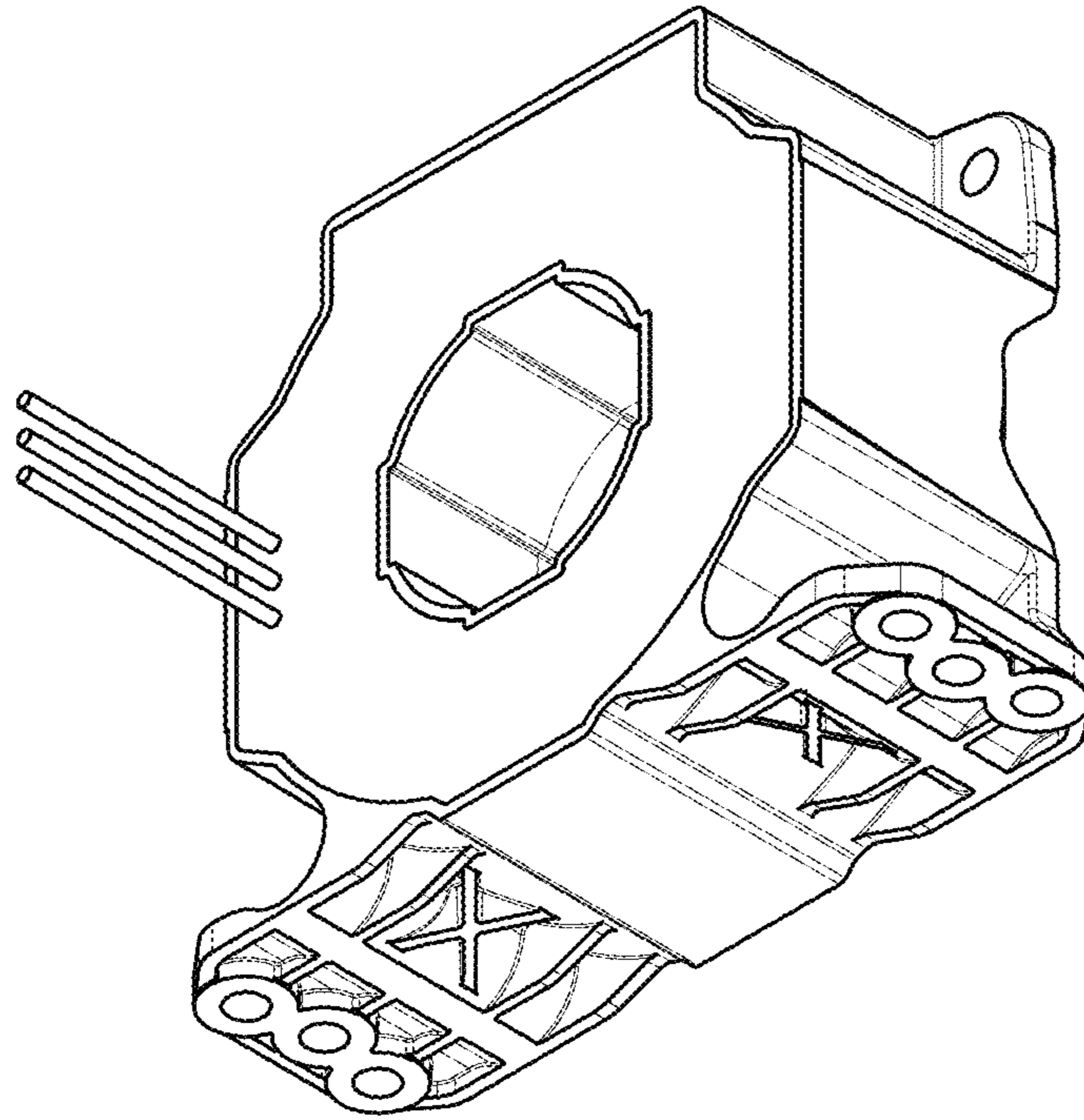


FIG. 26

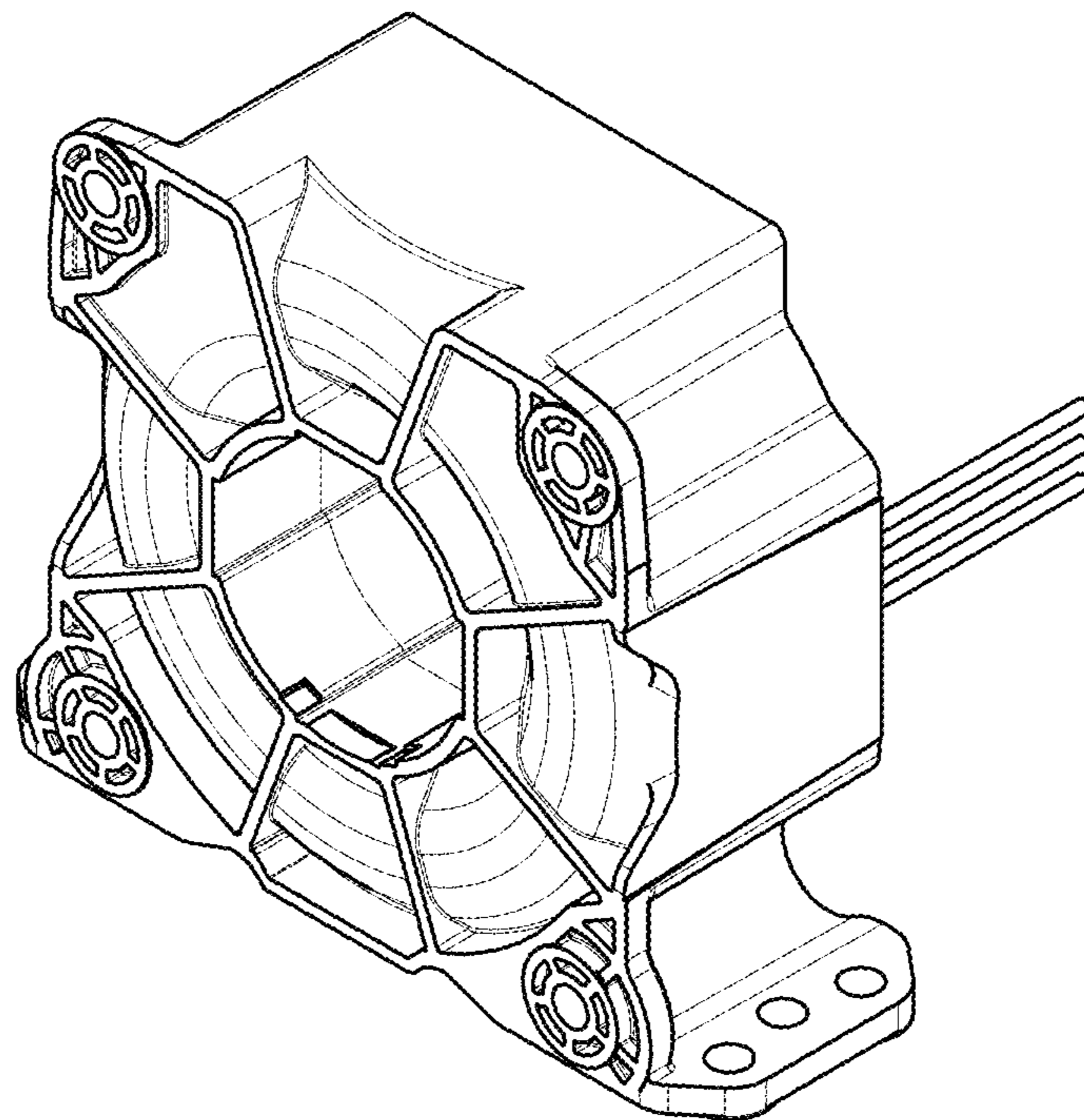


FIG. 27

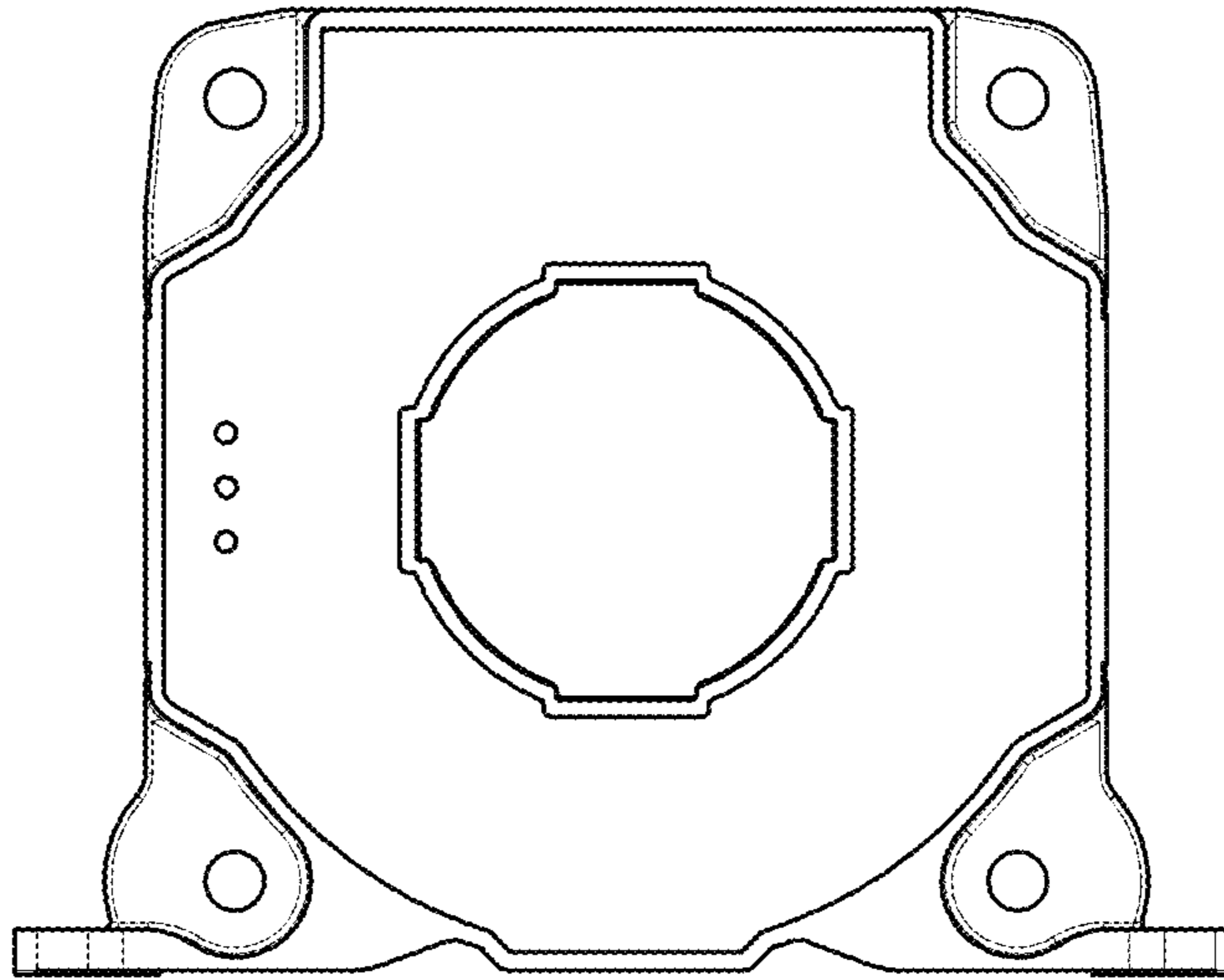
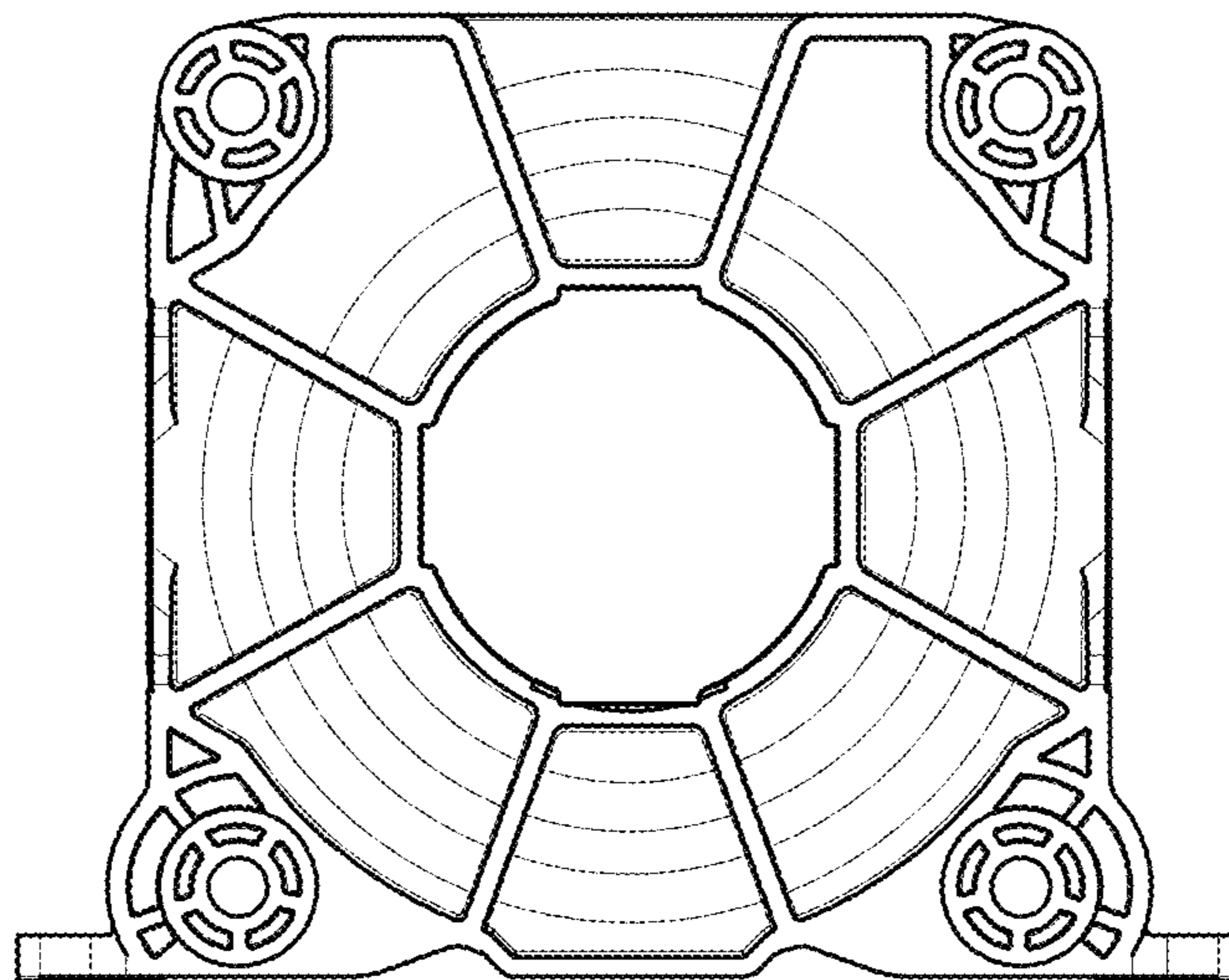


FIG. 28



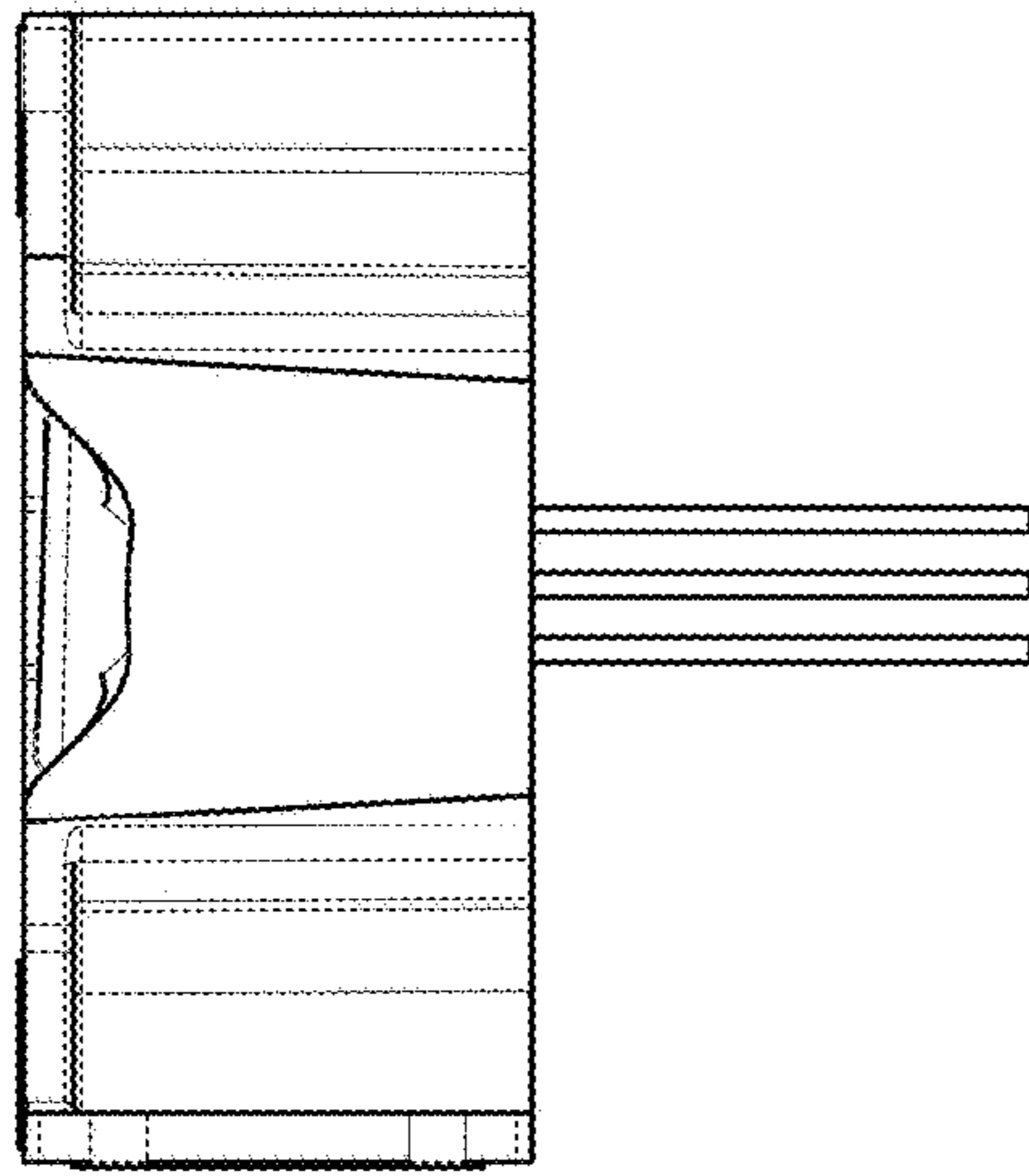


FIG. 29

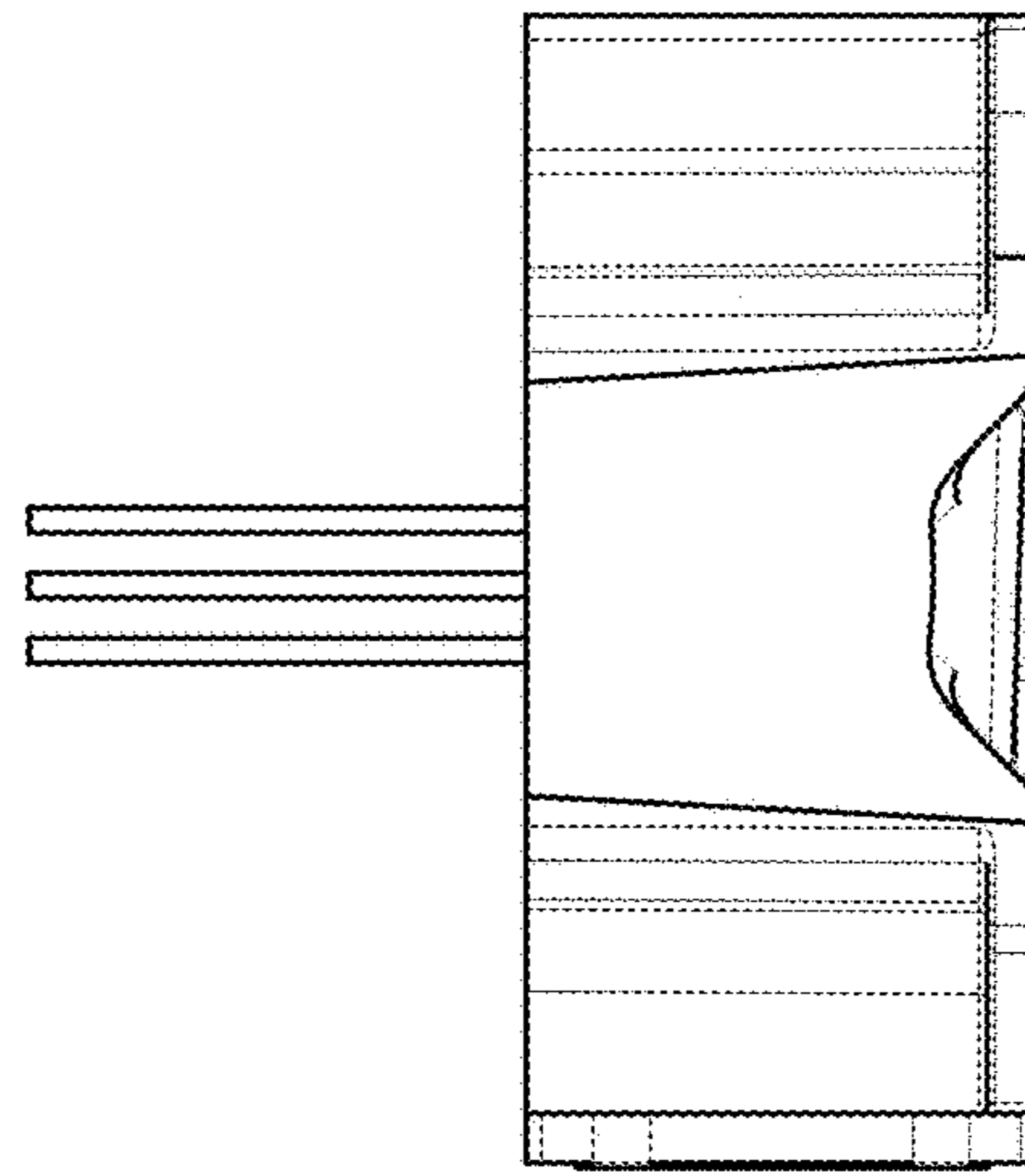


FIG. 30

FIG. 31

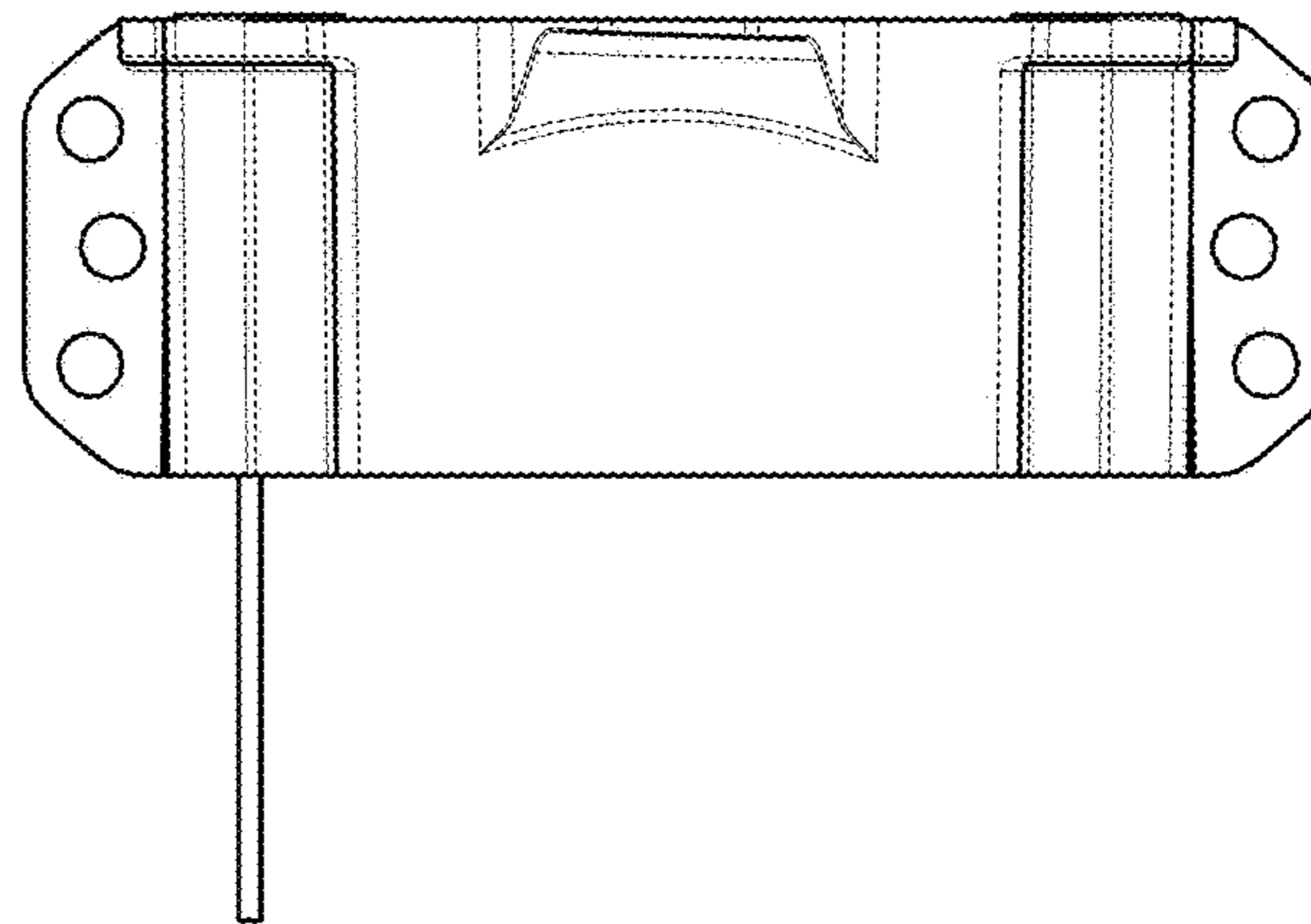


FIG. 32

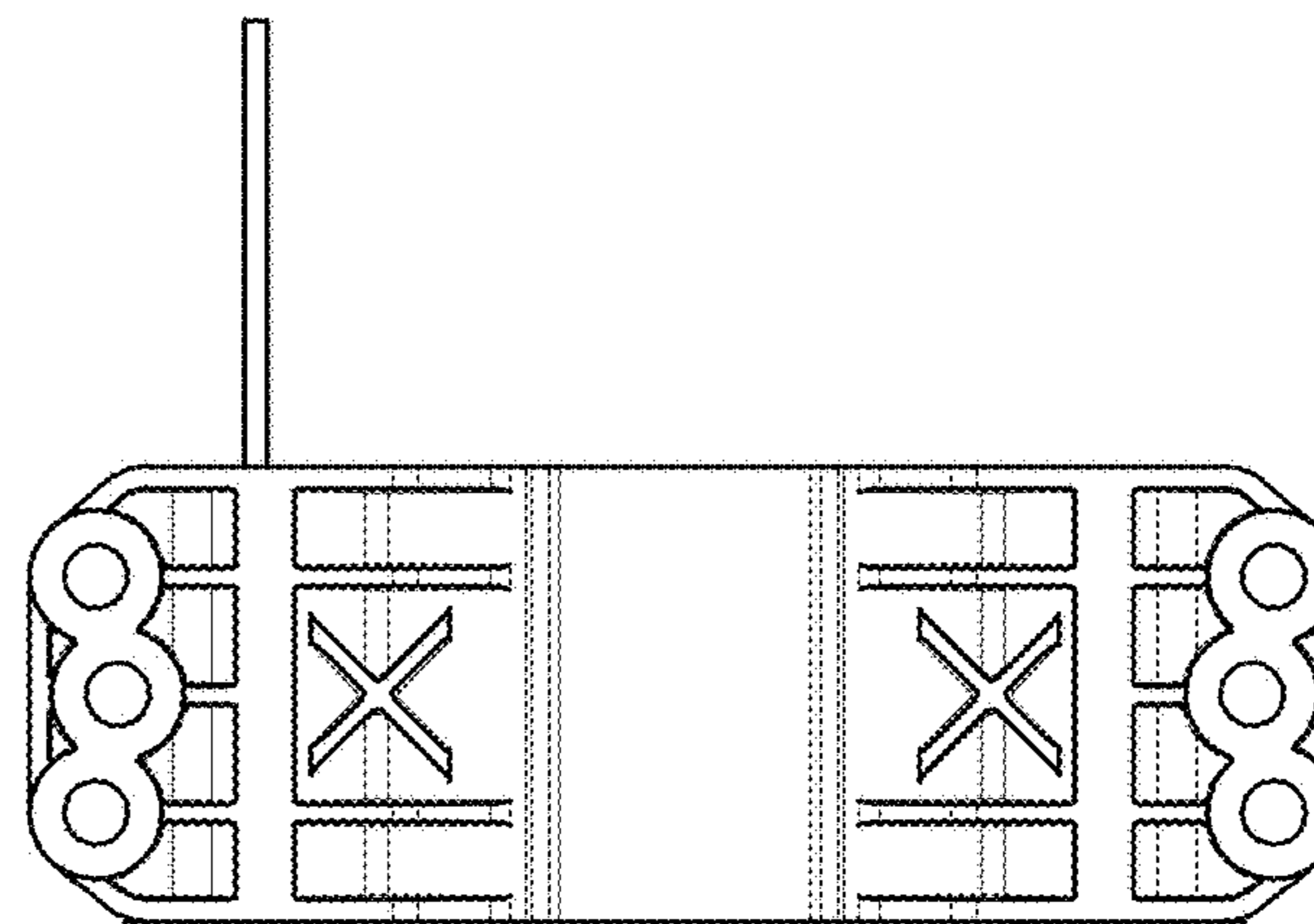


FIG. 33

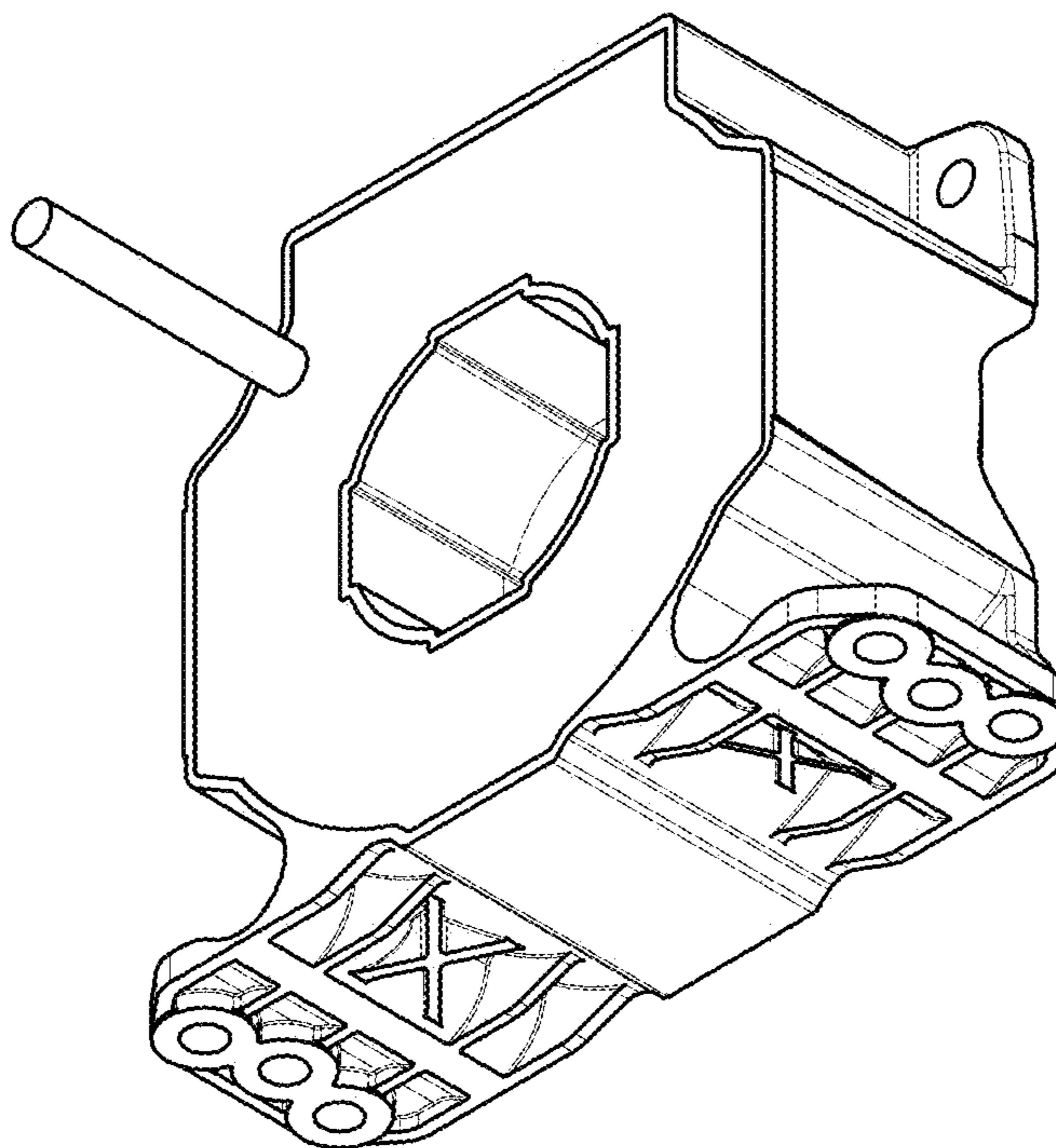


FIG. 34

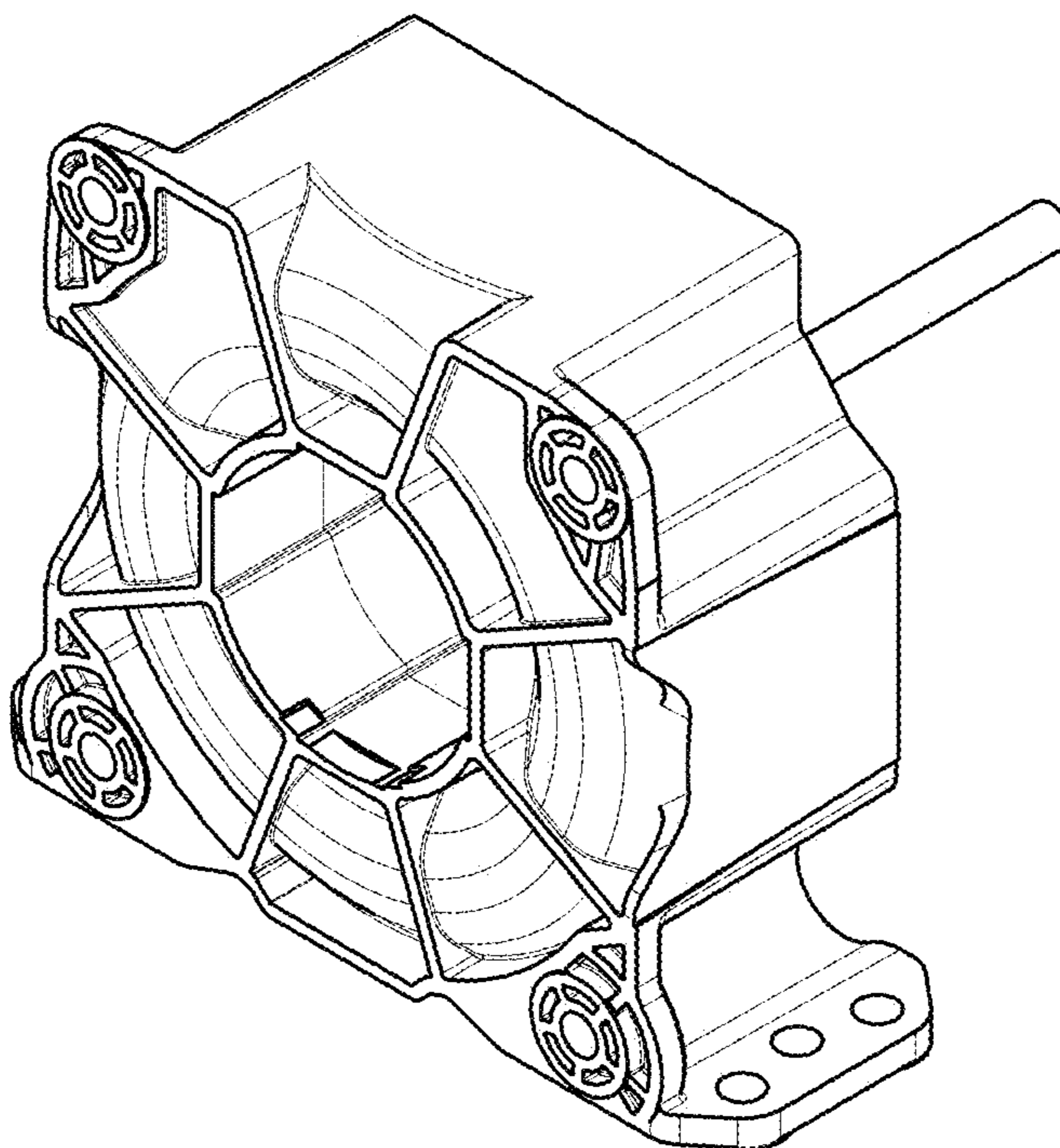


FIG. 35

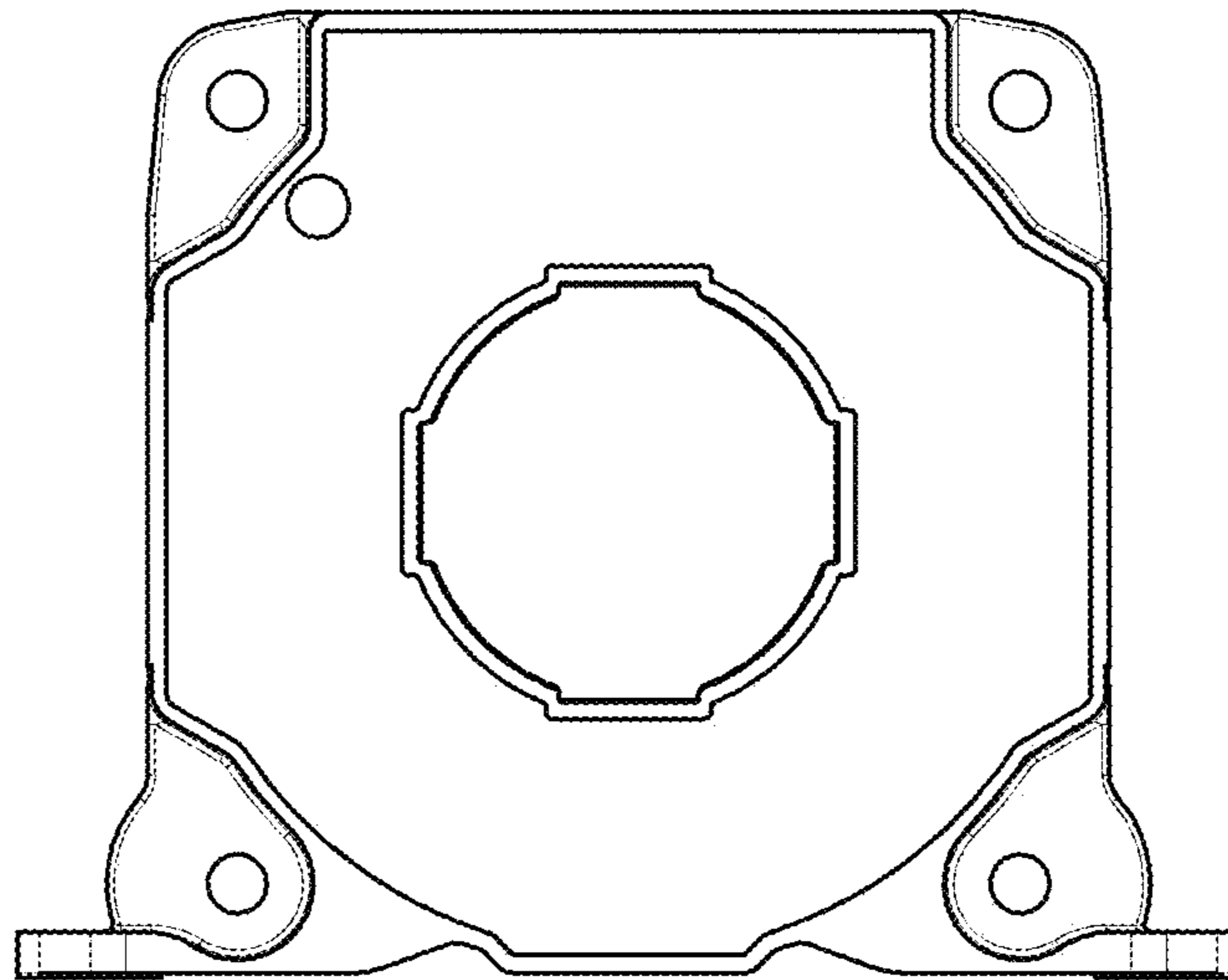
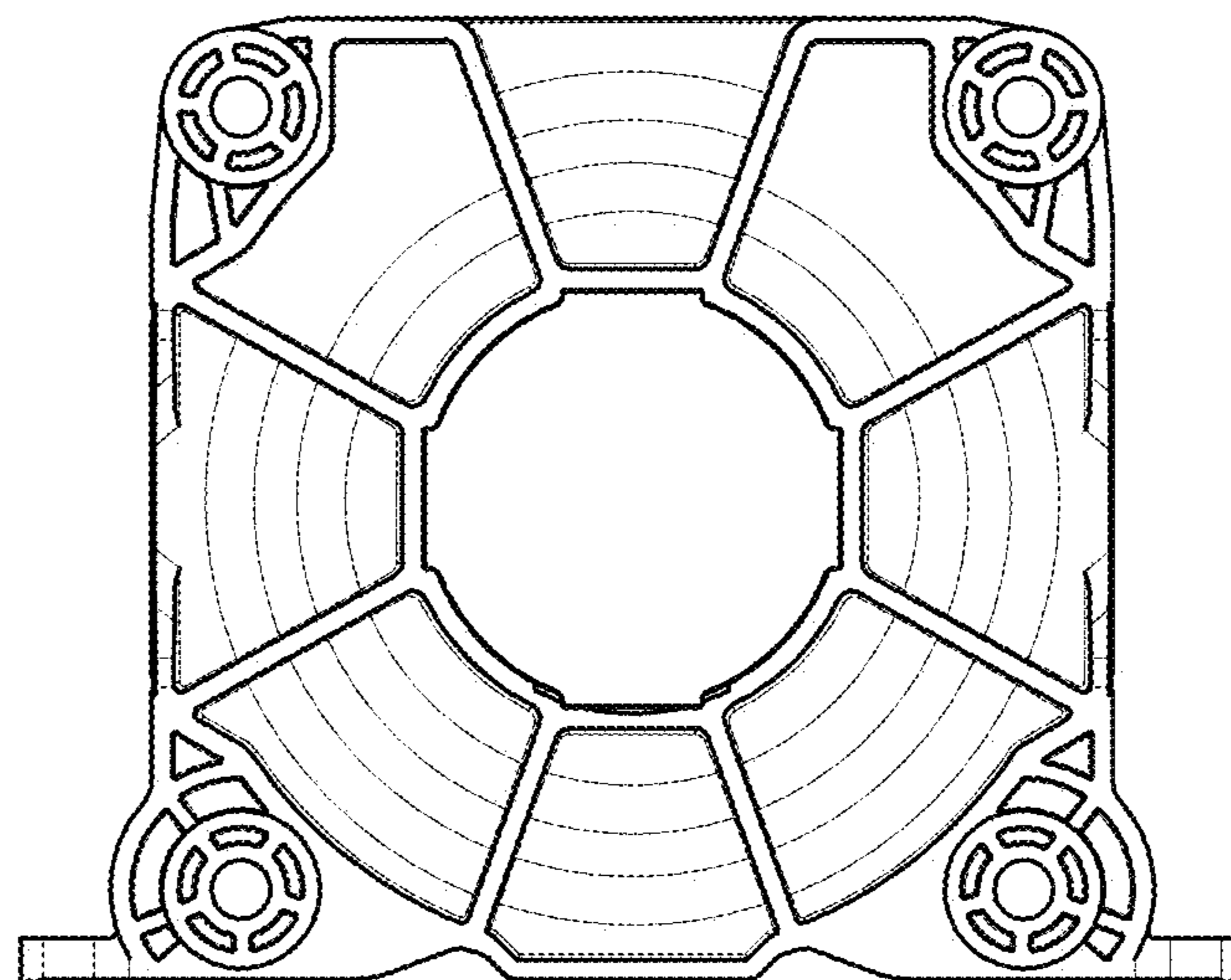


FIG. 36



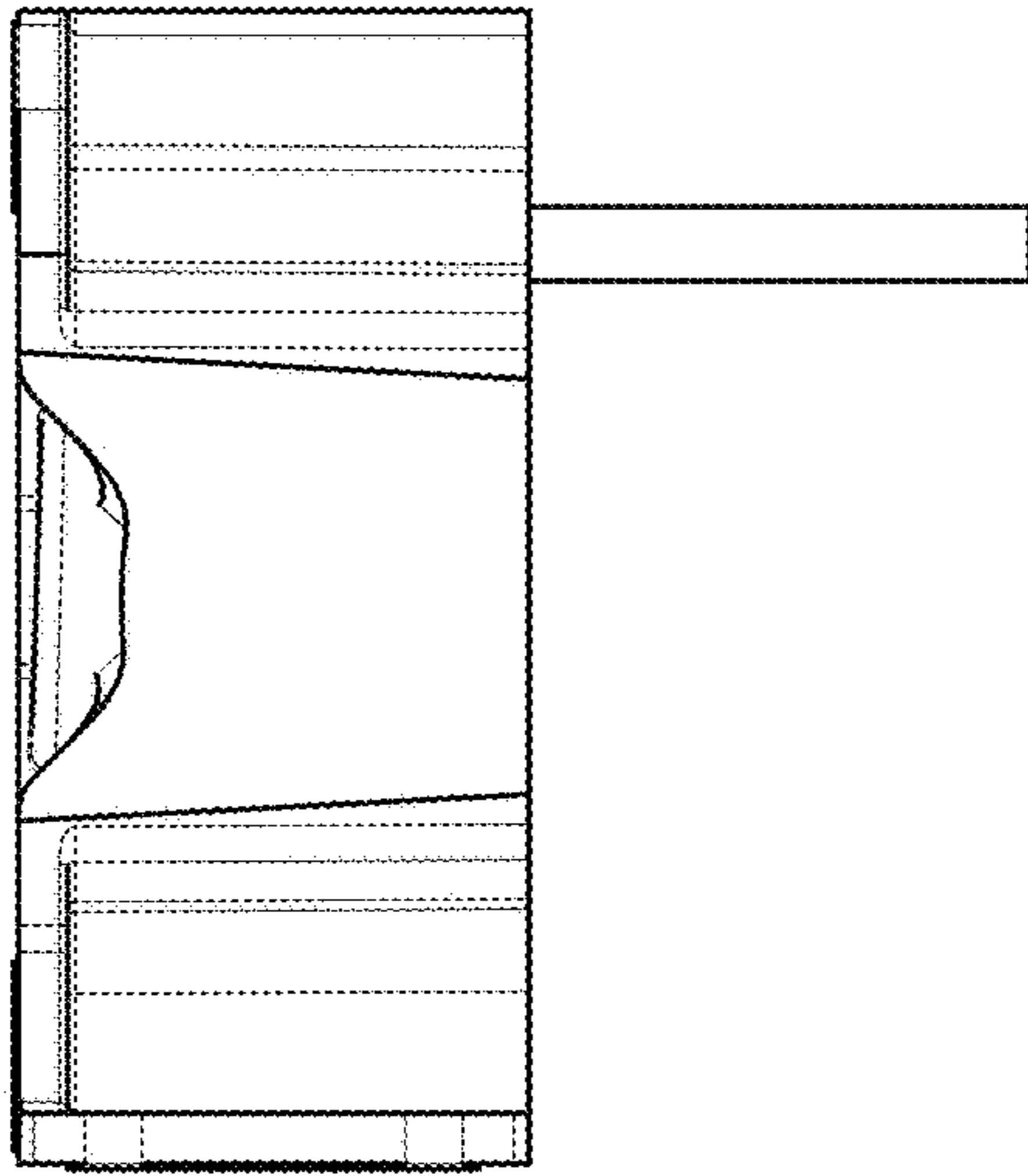


FIG. 37

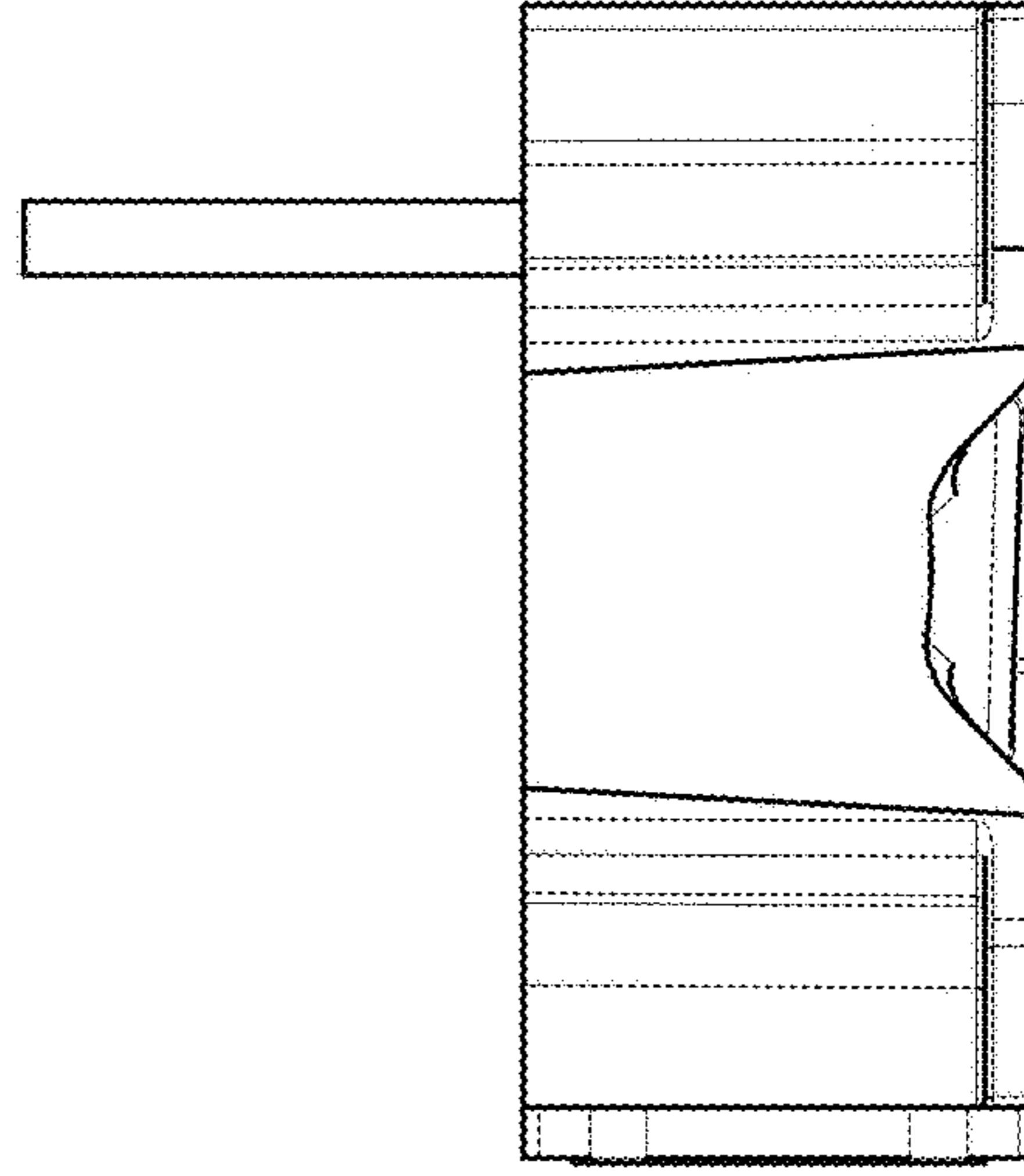


FIG. 38

FIG. 39

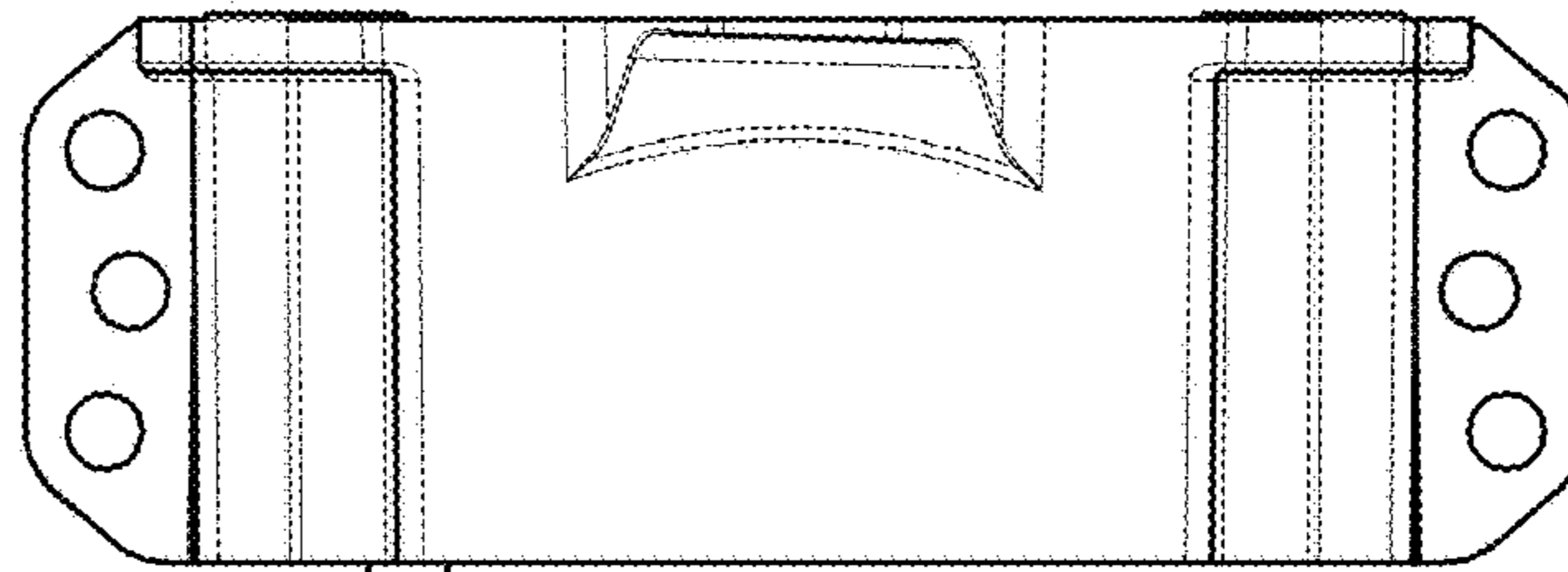


FIG. 40

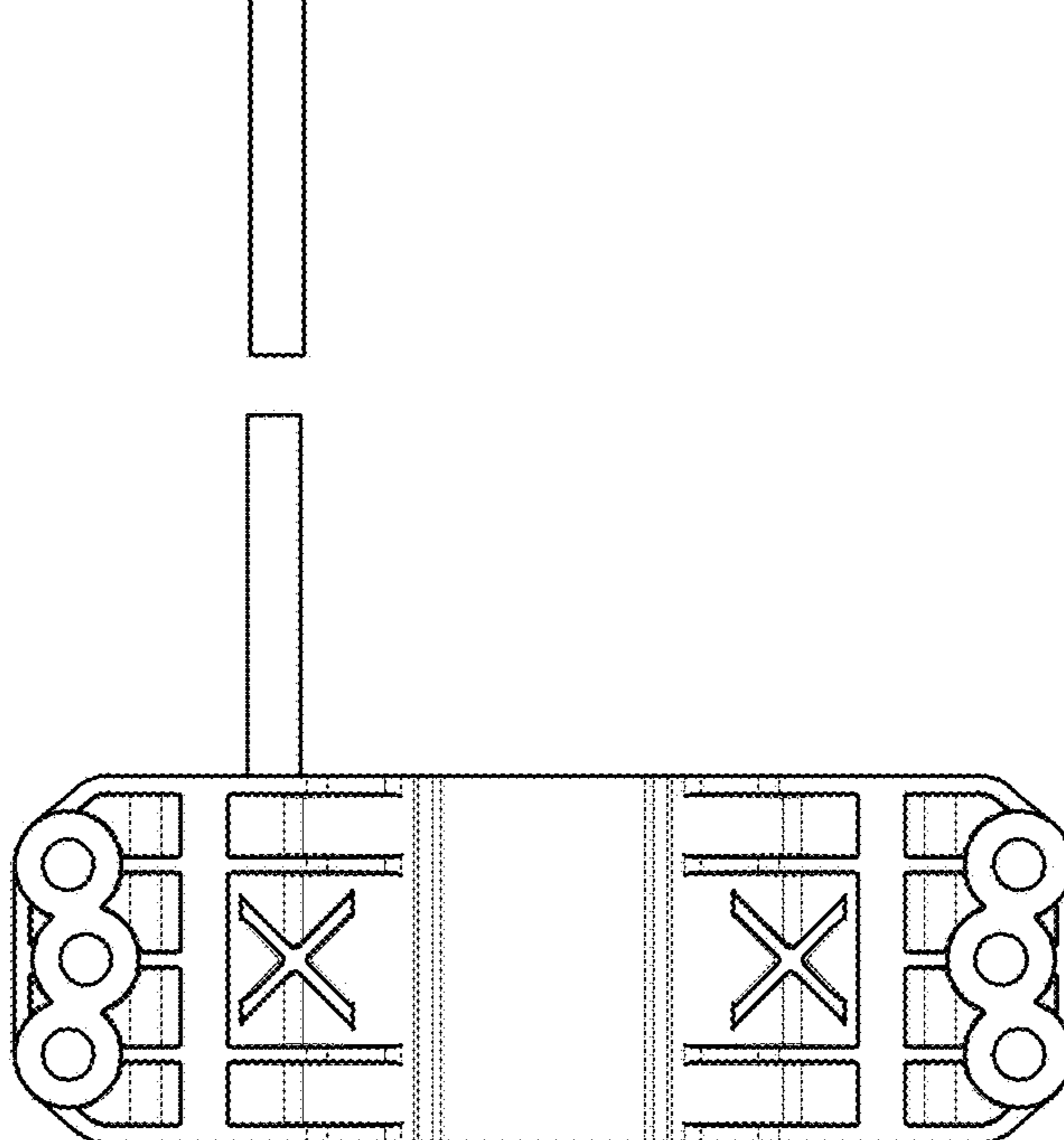


FIG. 41

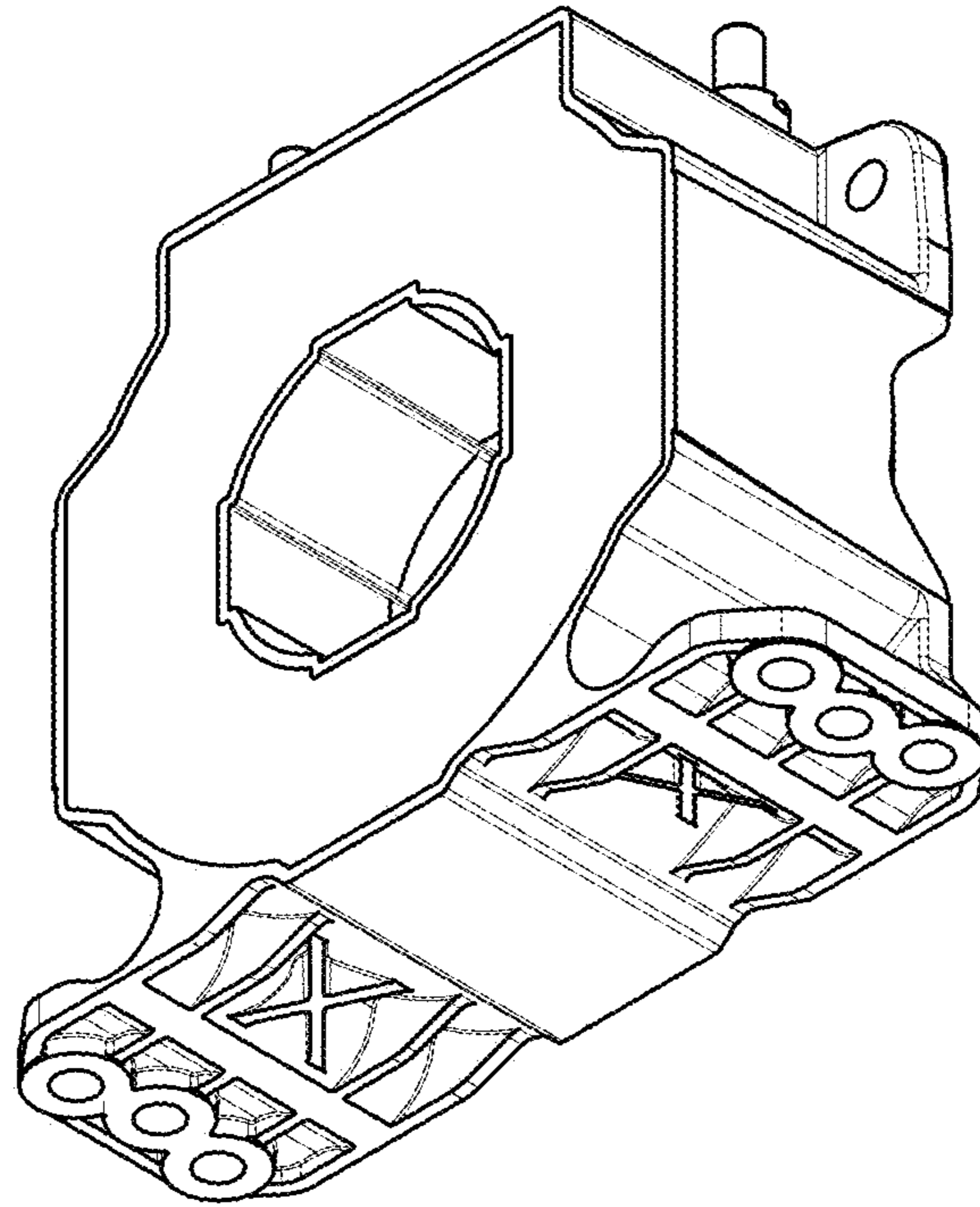


FIG. 42

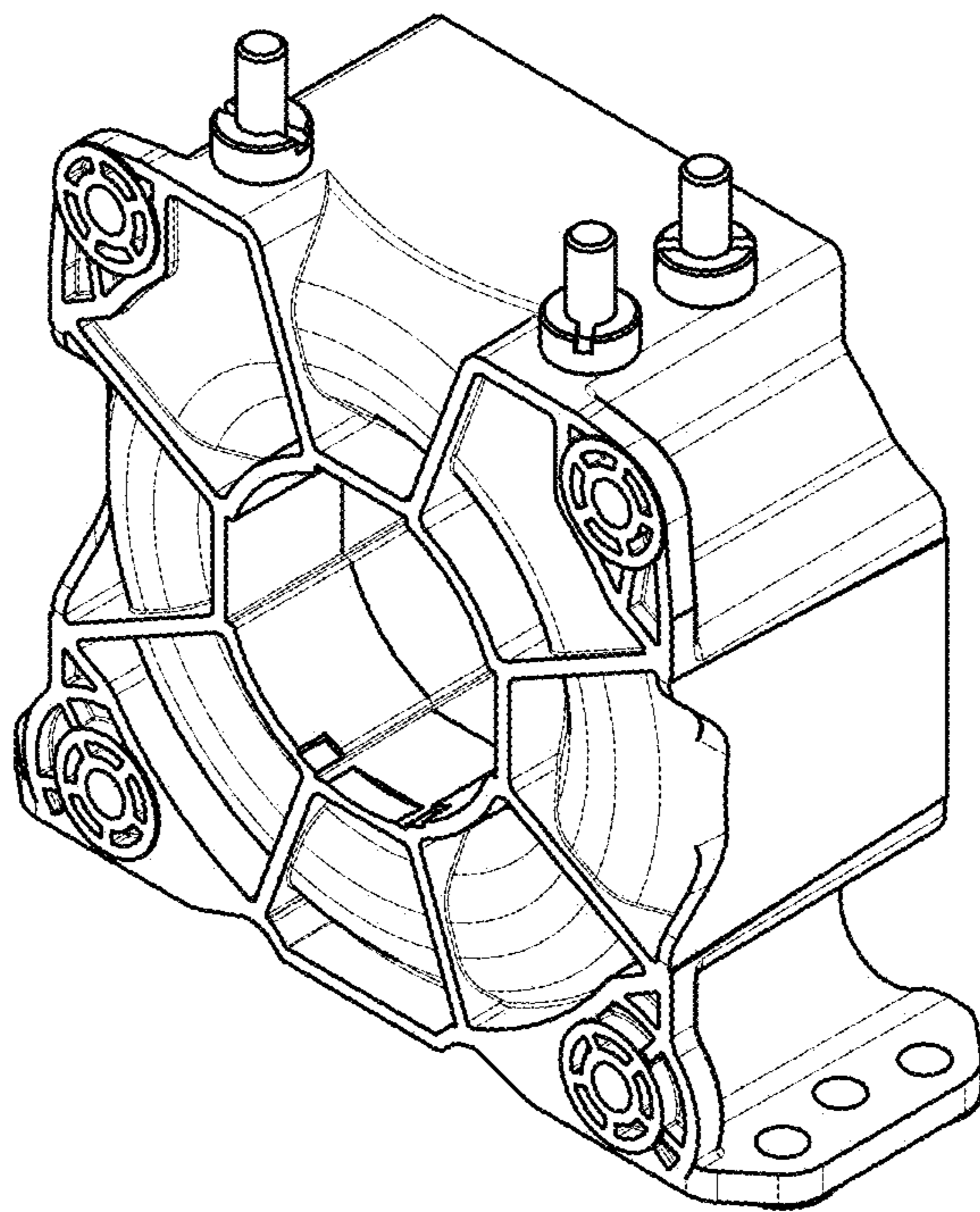


FIG. 43

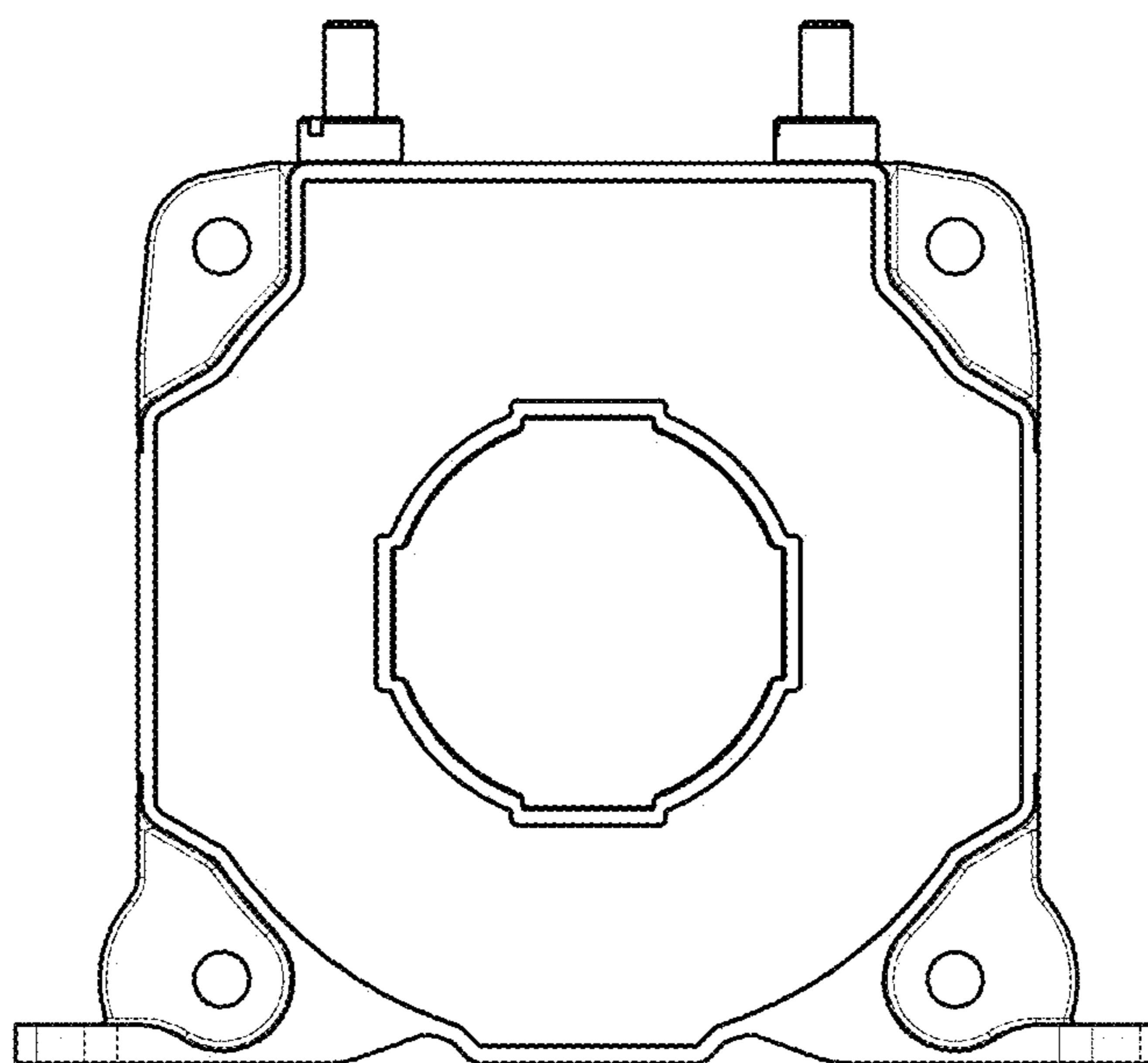
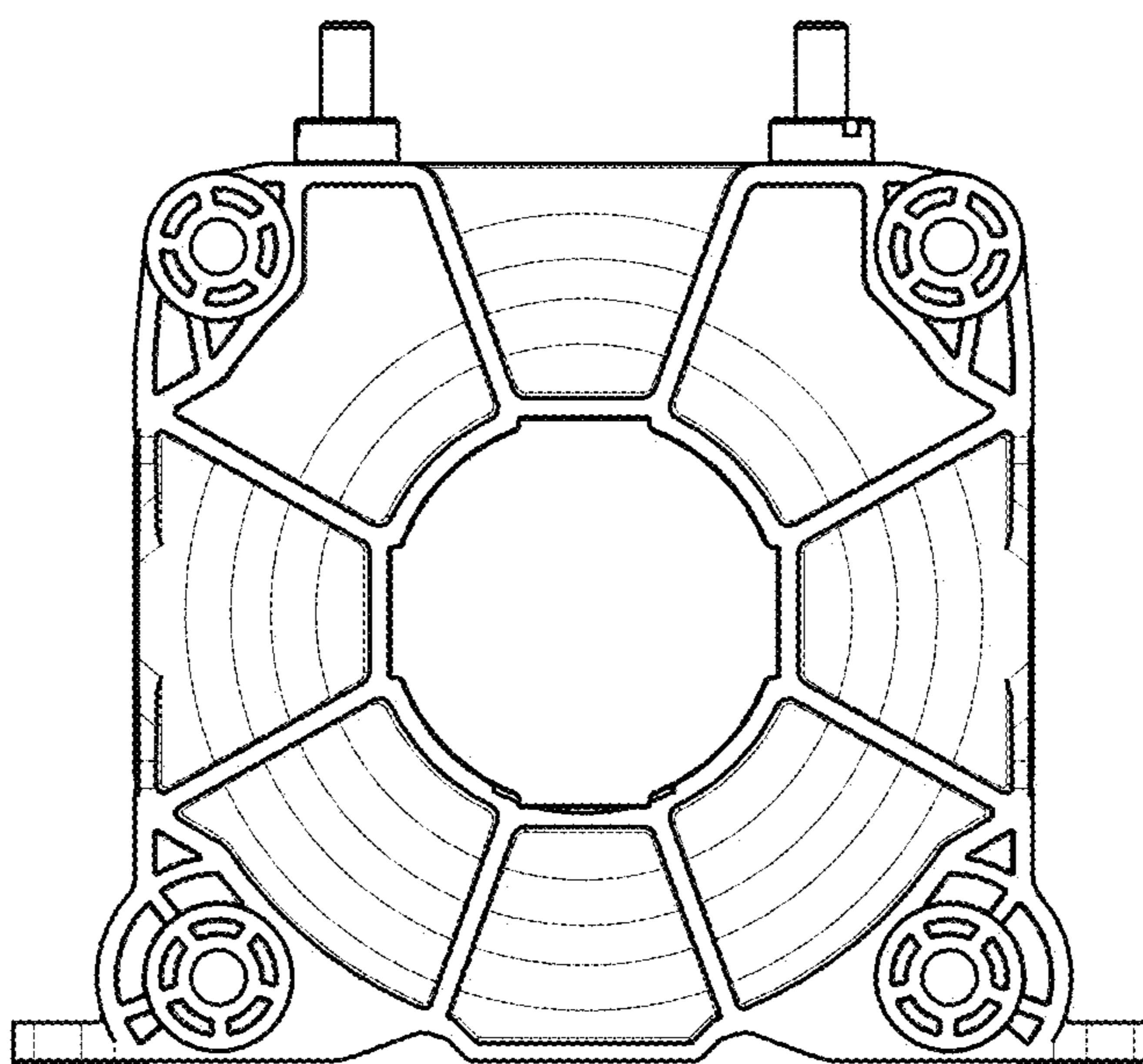


FIG. 44



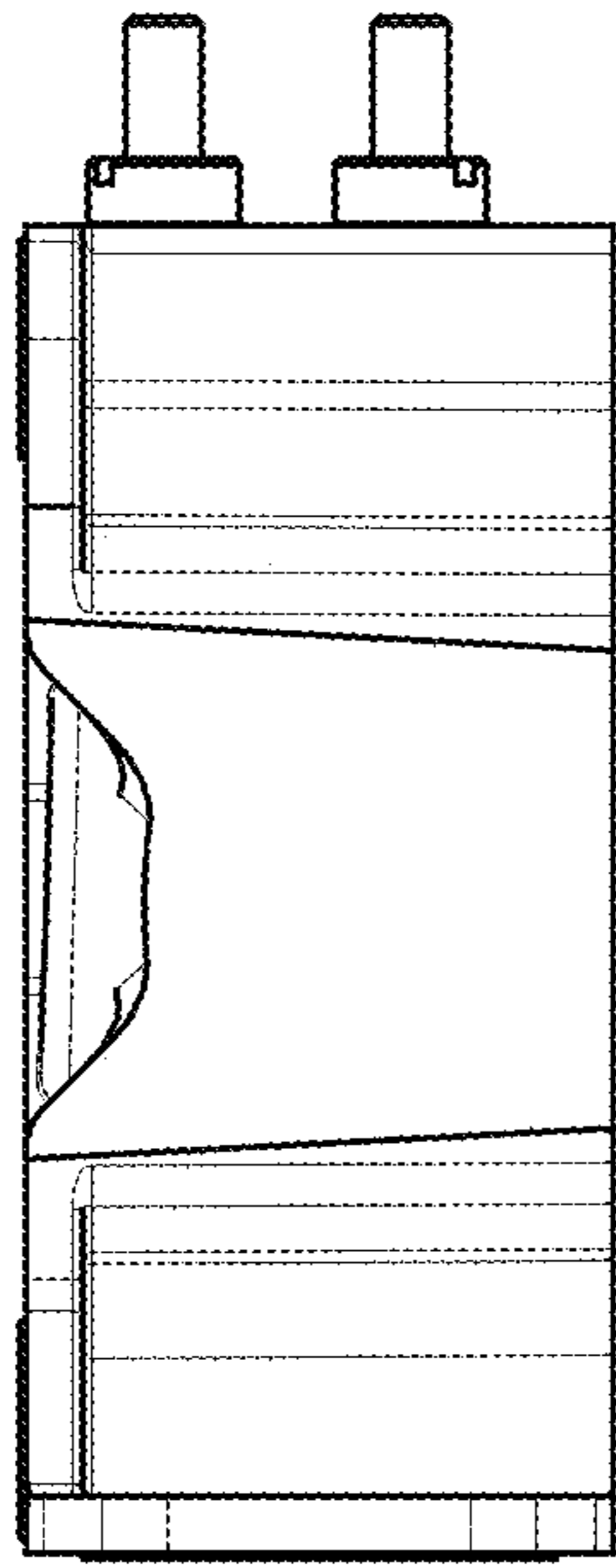


FIG. 45

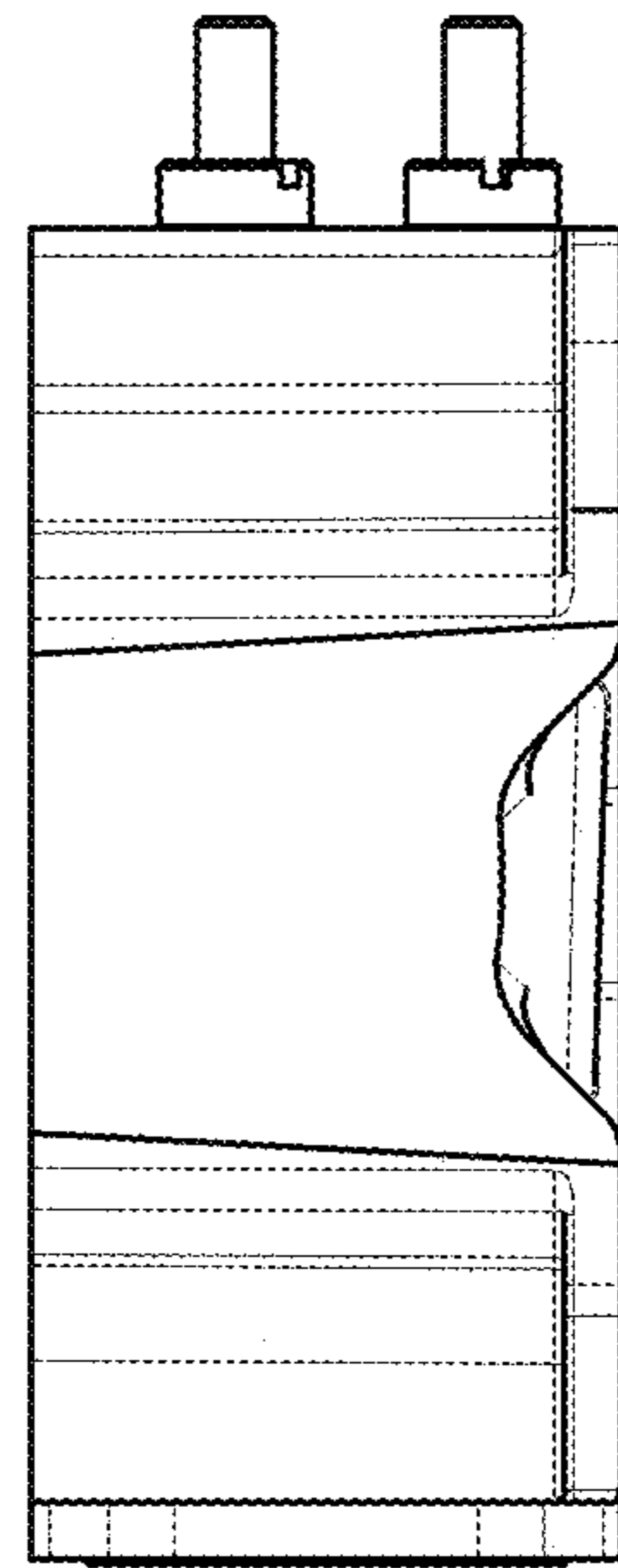


FIG. 46

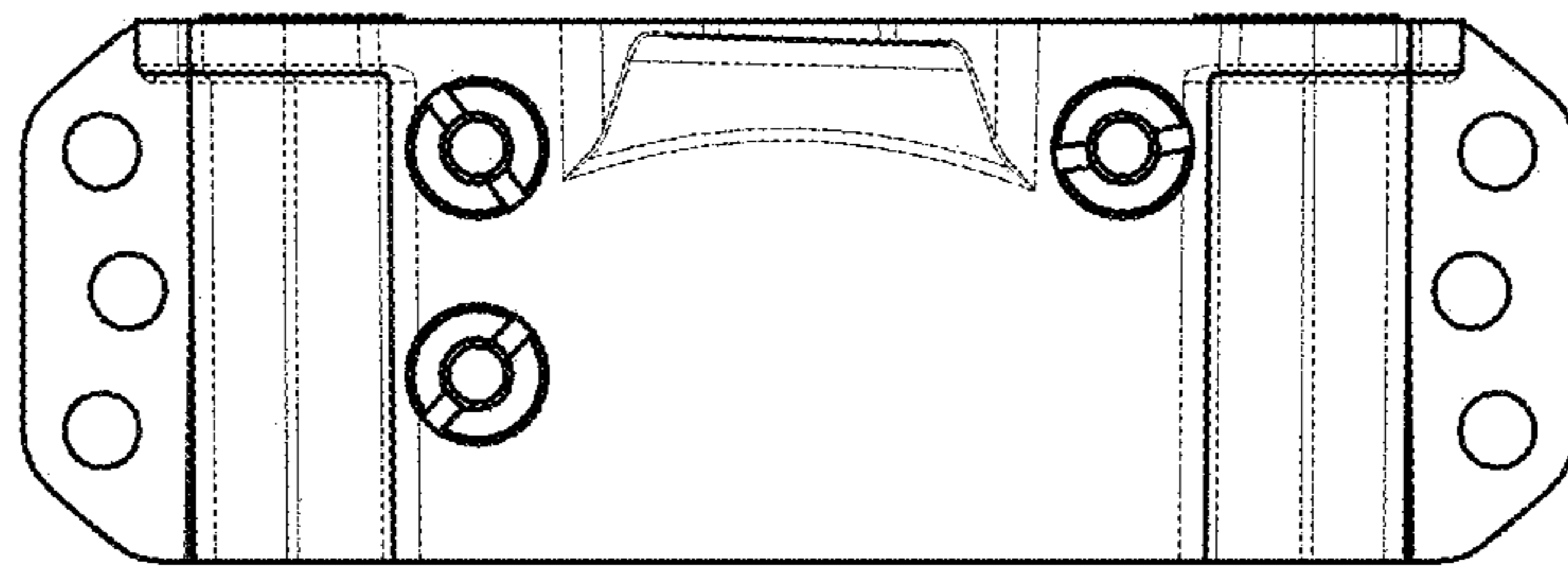


FIG. 47

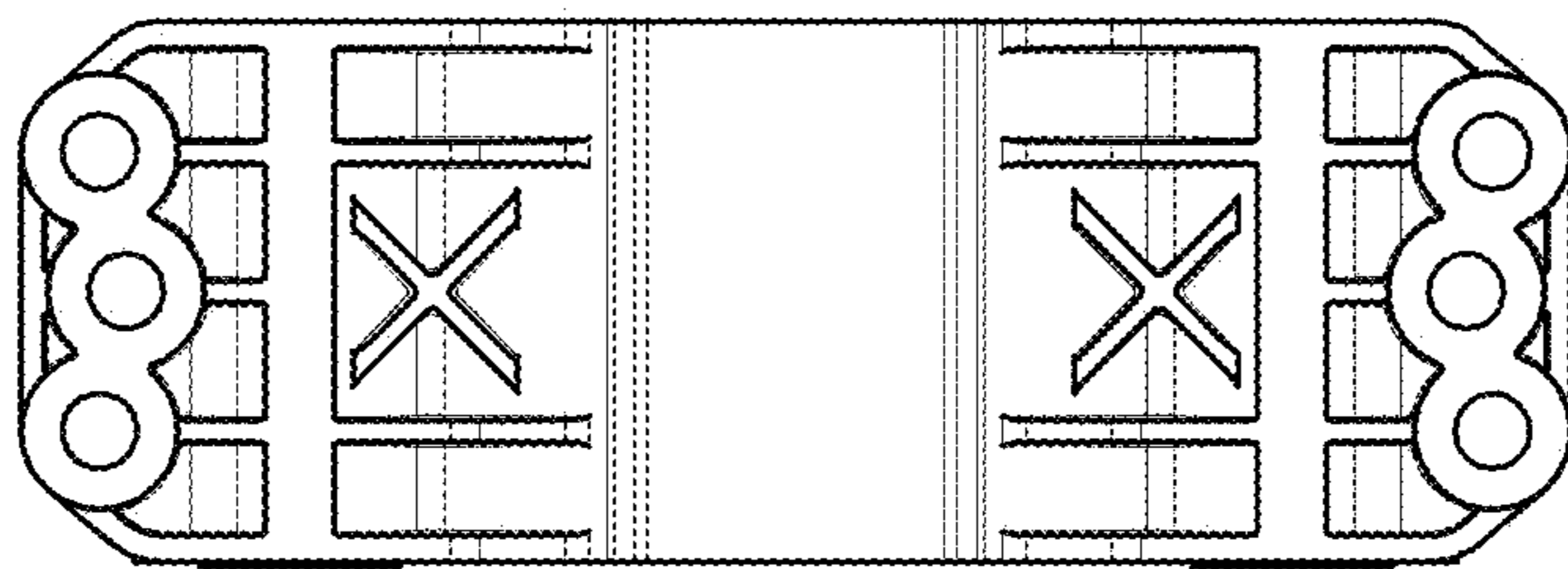


FIG. 48

FIG. 49

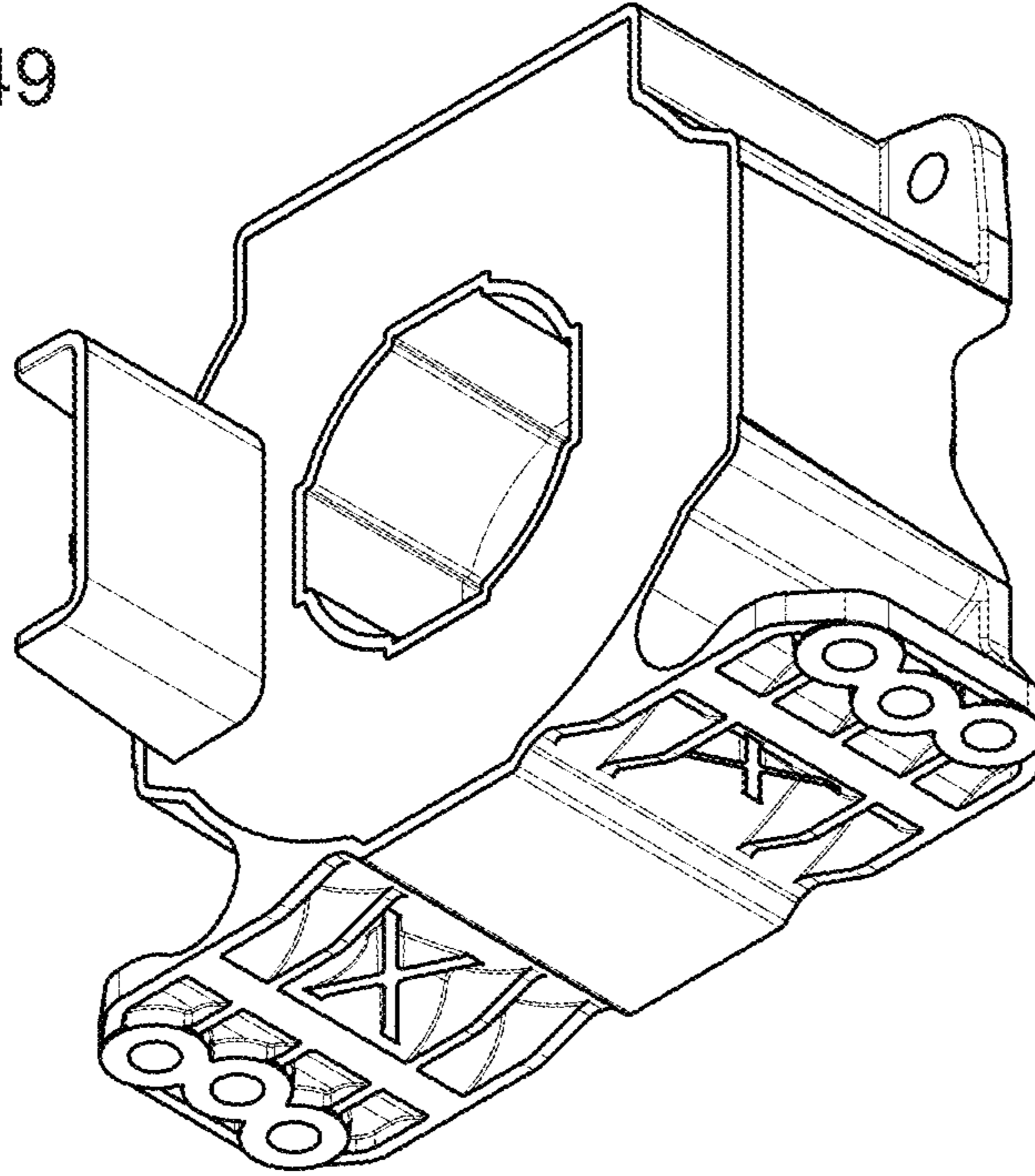


FIG. 50

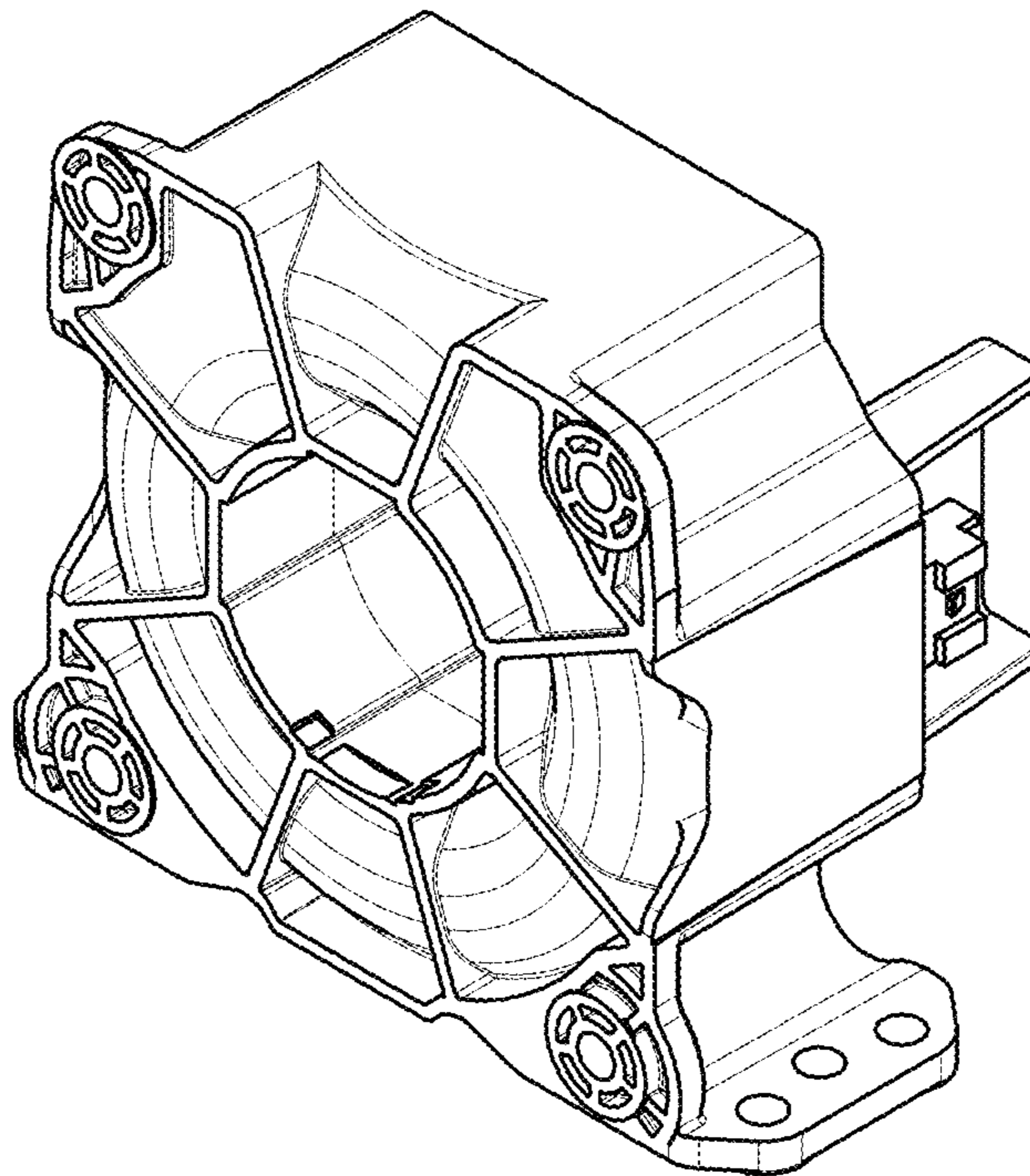


FIG. 51

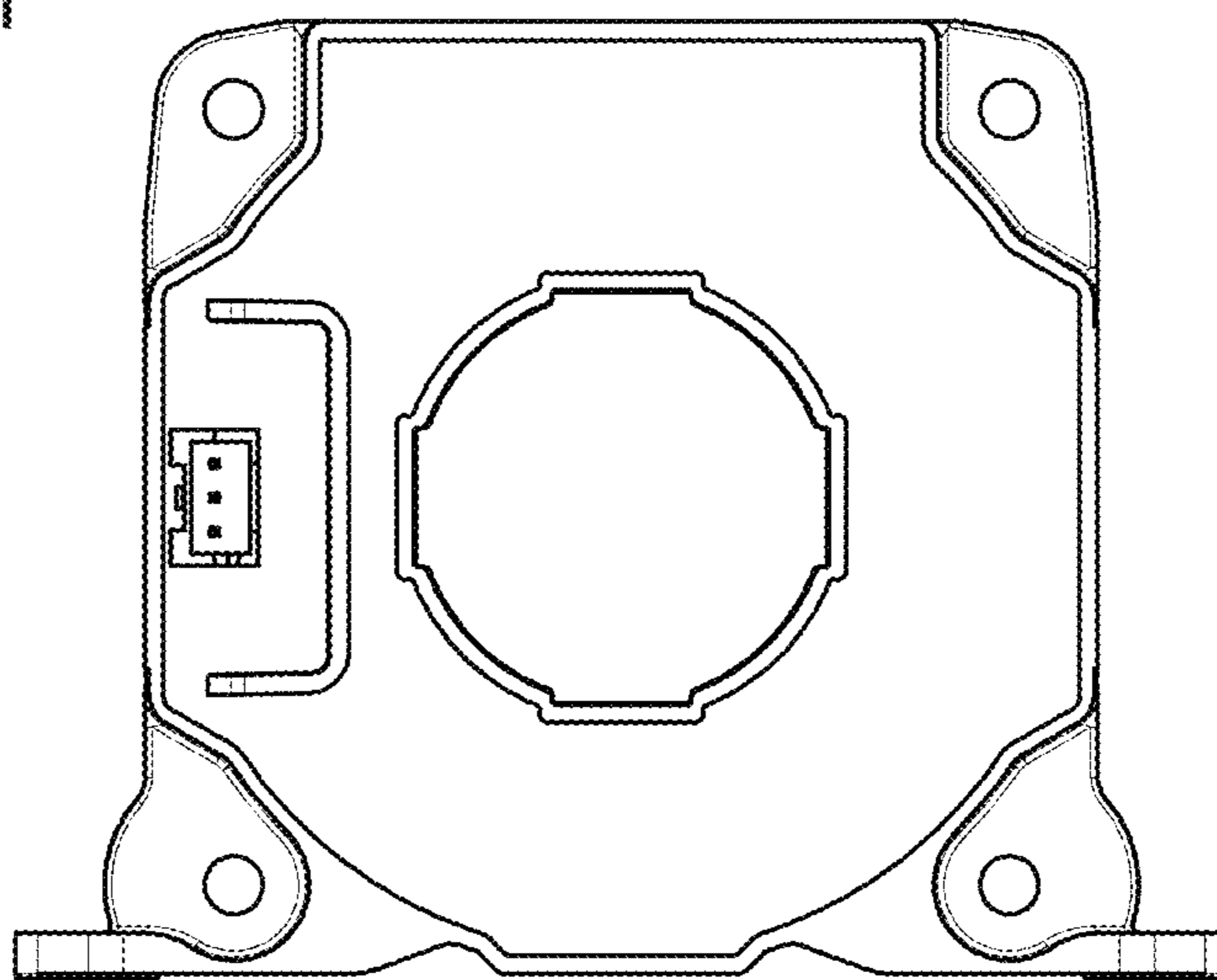
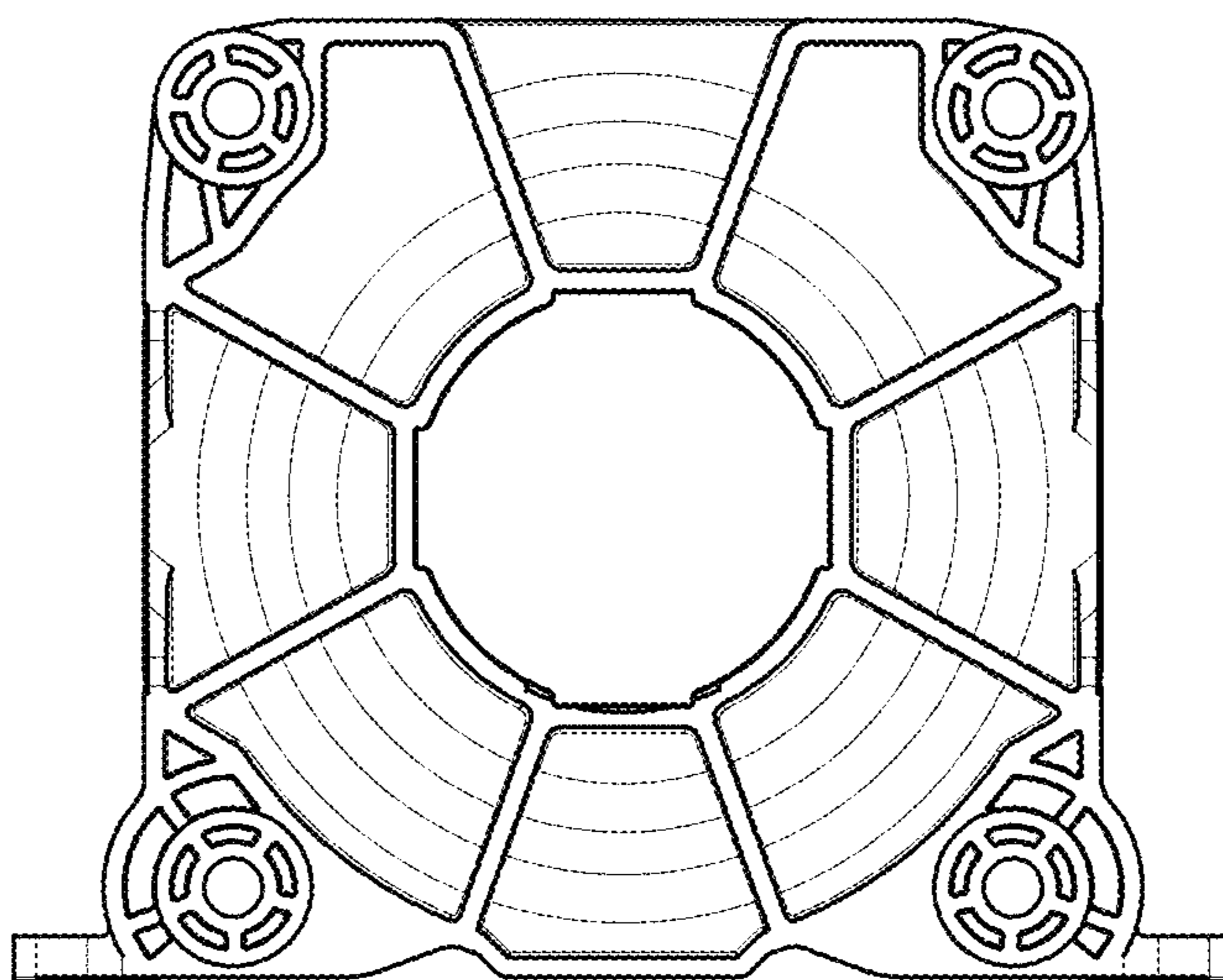


FIG. 52



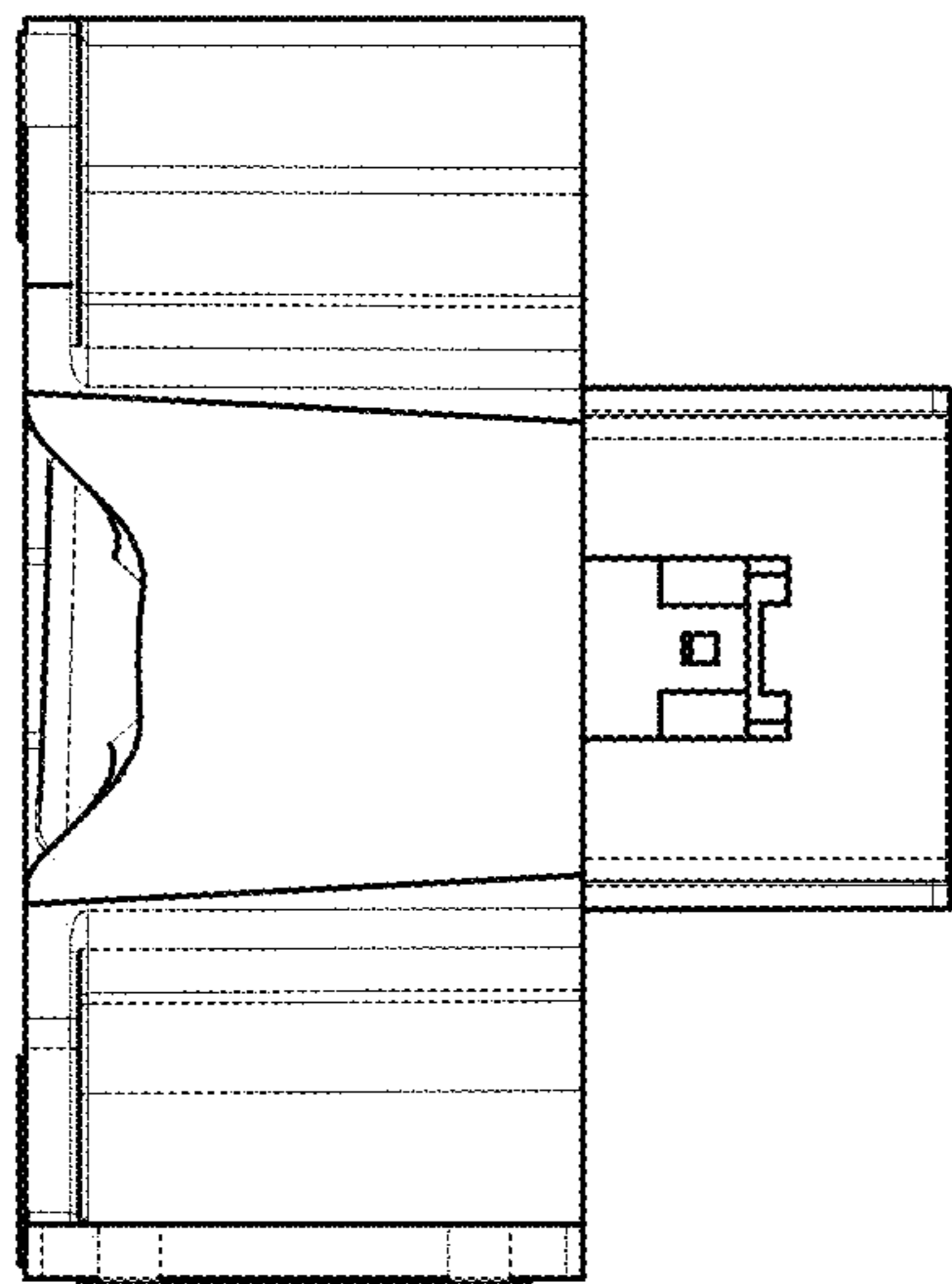


FIG. 53

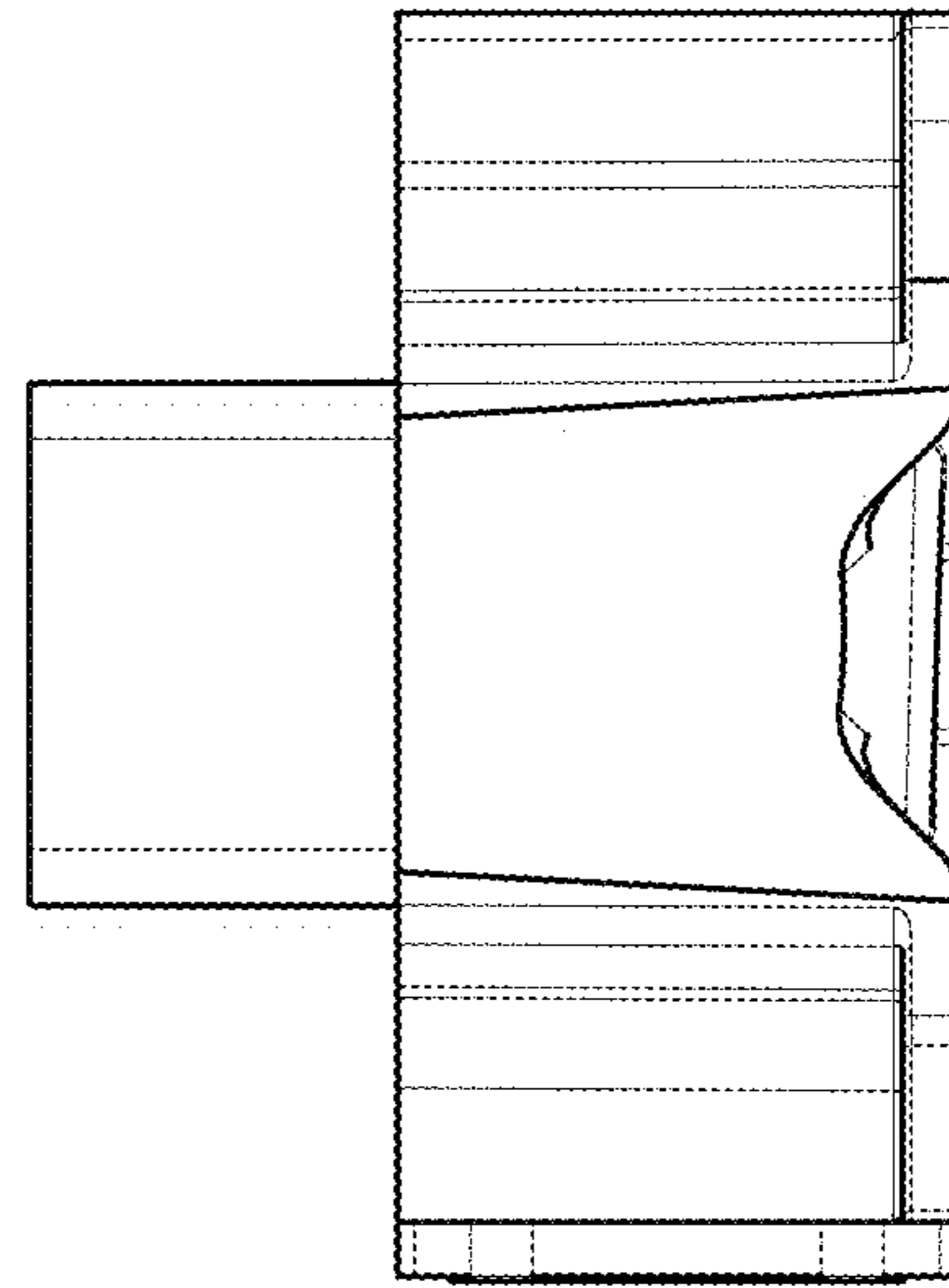


FIG. 54

FIG. 55

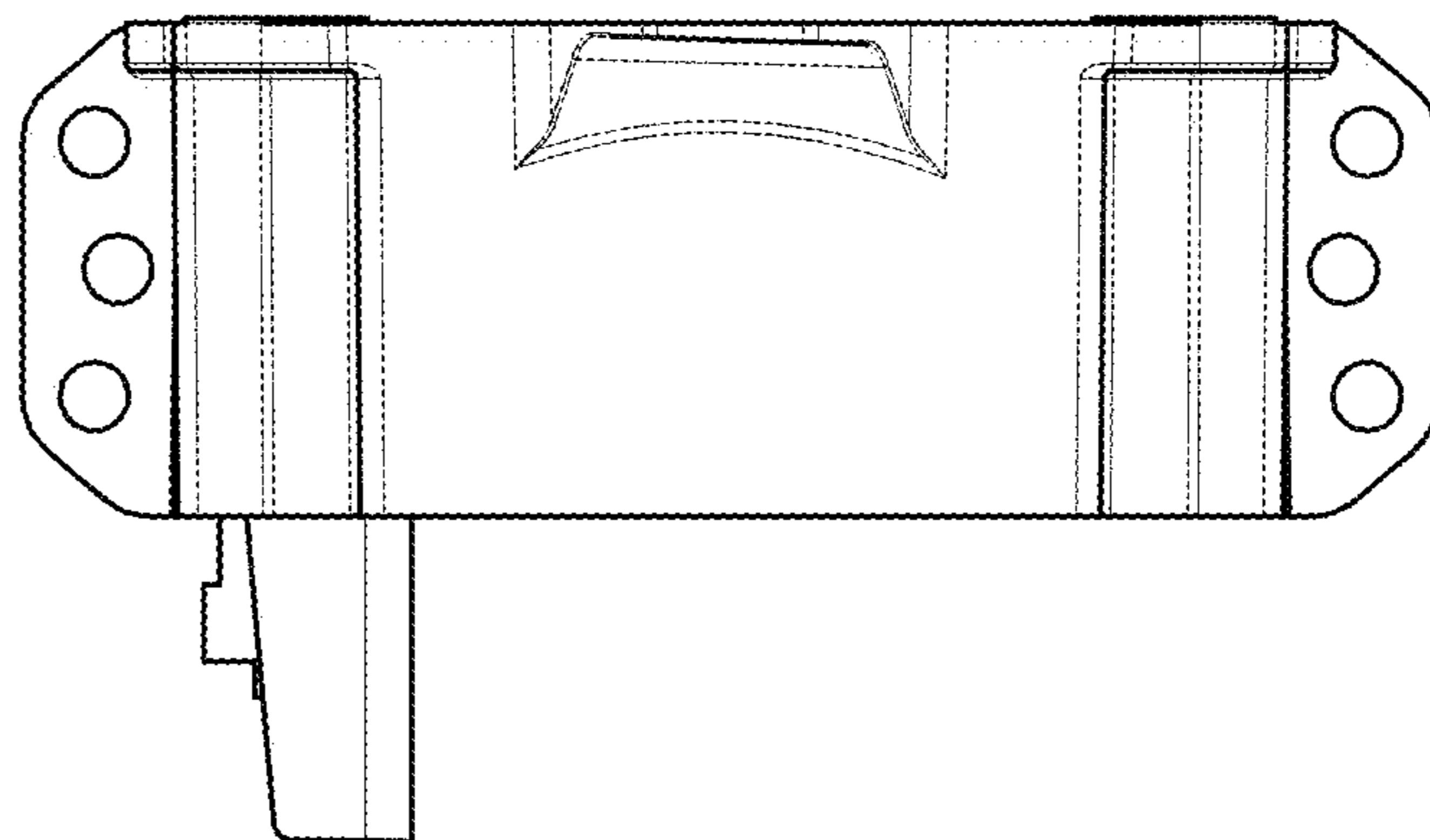


FIG. 56

