



US00D837976S

(12) **United States Design Patent** (10) **Patent No.:** **US D837,976 S**  
**Kaye et al.** (45) **Date of Patent:** **\*\* Jan. 8, 2019**

(54) **POLYP TRAP ASSEMBLY**  
(71) Applicant: **United States Endoscopy Group, Inc.**,  
Mentor, OH (US)  
(72) Inventors: **Christopher J. Kaye**, Concord, OH  
(US); **Gary E. Mann**, Mentor, OH  
(US); **Kenneth E. Wolcott**, Centerport,  
NY (US)  
(73) Assignee: **UNITED STATES ENDOSCOPY**  
**GROUP, INC.**, Mentor, OH (US)

(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/581,009**

(22) Filed: **Oct. 14, 2016**  
(51) **LOC (11) Cl.** ..... **24-04**  
(52) **U.S. Cl.**  
USPC ..... **D24/121**  
(58) **Field of Classification Search**  
USPC ..... D24/108, 111, 112, 113, 114, 121, 127,  
D24/128, 129, 130, 133, 141, 146, 147,  
D24/152, 186, 214, 215  
CPC ..... A61M 1/0056; A61B 1/0031; A61B  
10/0045; A61B 10/0096  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,780,738 A \* 12/1973 Deaton ..... A61M 1/0001  
604/319  
4,643,197 A \* 2/1987 Greene ..... A61M 1/0056  
600/575  
4,736,859 A \* 4/1988 Mayes ..... A61B 10/007  
215/330  
4,852,560 A \* 8/1989 Hermann, Jr. .... A61B 10/007  
4/144.1  
5,624,418 A \* 4/1997 Shepard ..... A61M 1/0056  
210/232  
D641,866 S \* 7/2011 Burgess ..... D24/121  
D690,826 S \* 10/2013 Kuroda ..... D24/224  
8,887,770 B1 \* 11/2014 Shippert ..... A61M 1/0001  
141/234

D731,672 S \* 6/2015 Kuroda ..... D24/224  
9,220,485 B2 \* 12/2015 Parks ..... A61B 10/0045  
D748,776 S \* 2/2016 Brannon ..... D24/121  
D771,832 S \* 11/2016 Yeager ..... D24/224  
D773,683 S \* 12/2016 Kuroda ..... D24/224  
D796,687 S \* 9/2017 Kuroda ..... D24/224  
9,788,818 B2 \* 10/2017 Parks ..... A61B 10/02  
D805,634 S \* 12/2017 Mangiafico ..... D24/121  
2004/0230135 A1 \* 11/2004 Merkle ..... A61B 10/0045  
600/575  
2006/0189950 A1 \* 8/2006 Rogers ..... A61B 10/0045  
604/319  
2011/0250106 A1 \* 10/2011 Lafond ..... A61B 10/0096  
422/551  
2012/0053484 A1 \* 3/2012 Parks ..... A61B 10/0096  
600/562  
2014/0155847 A1 \* 6/2014 Neatrou ..... A61M 1/0001  
604/319  
2016/0206293 A1 \* 7/2016 Schiestle ..... A61B 10/0038

OTHER PUBLICATIONS

Diversatek Healthcare, Capture Poly Trap, copyright 2017, online product publication, retrieved Feb. 14, 2018 from <URL:http://www.diversatekhealthcare.com/wp-content/uploads/2017/03/DiversatekHealthcare\_Capture\_Polyp\_Trap.pdf> (Year: 2017).\*

\* cited by examiner

*Primary Examiner* — Sheryl Lane

*Assistant Examiner* — Calvin E Vansant

(74) *Attorney, Agent, or Firm* — Calfee, Halter & Griswold LLP; Joshua Friedman; Yizhou Liu

(57) **CLAIM**

We claim the ornamental design for a polyp trap assembly, as shown and described.

**DESCRIPTION**

FIG. 1 is a right and top perspective view of a first embodiment of a polyp trap assembly showing my new design; FIG. 2 is a right and bottom perspective view of the first embodiment; FIG. 3 is a top view of the first embodiment; FIG. 4 is a bottom view of the first embodiment; FIG. 5 is a front view of the first embodiment;

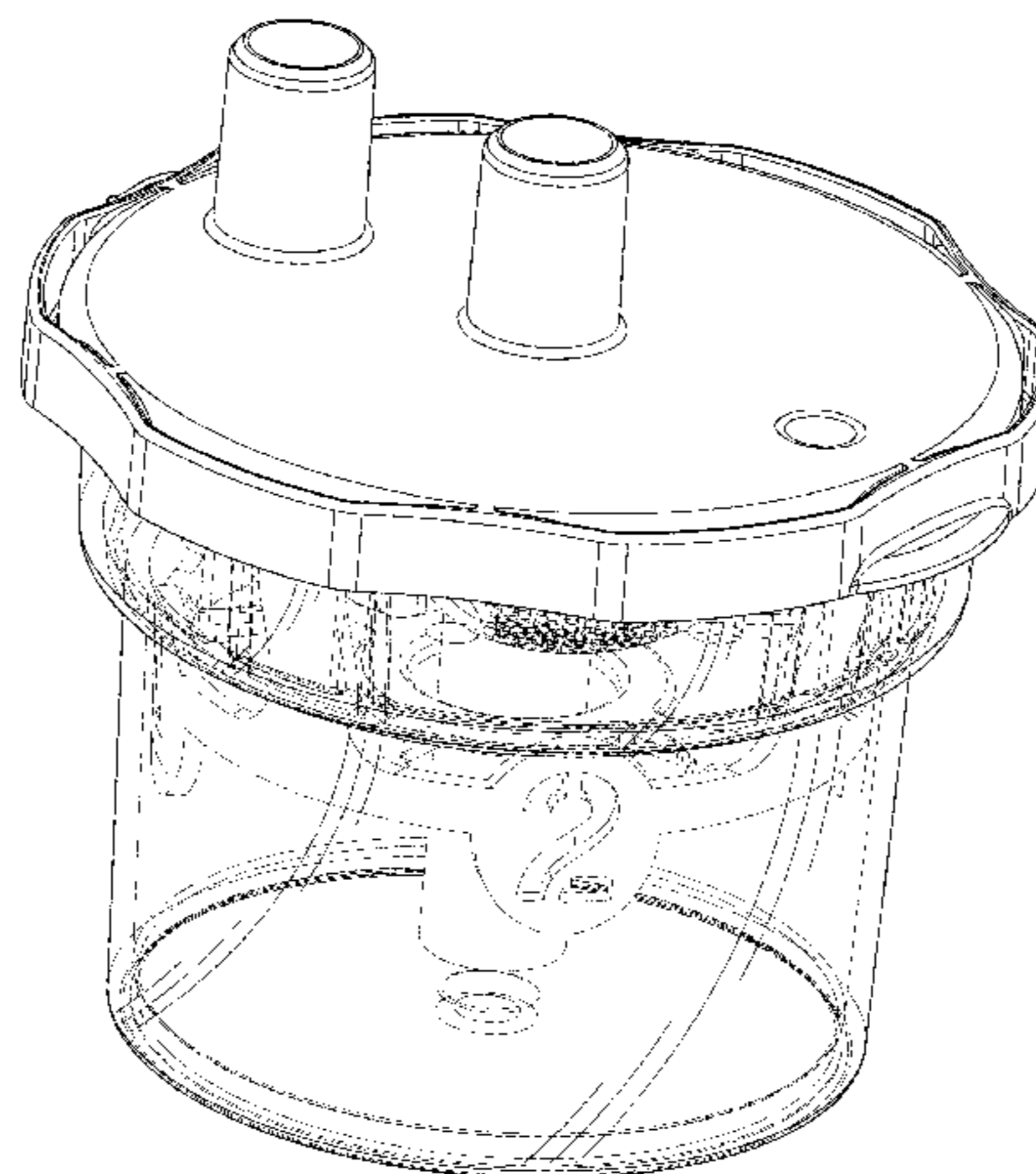




FIG. 6 is a right view of the first embodiment;  
FIG. 7 is a rear view of the first embodiment;  
FIG. 8 is a left view of the first embodiment;  
FIG. 9 is a front and top perspective view of a cap component of the first embodiment;  
FIG. 10 is a front and bottom perspective view of the cap component of the first embodiment;  
FIG. 11 is a top view of the cap component of the first embodiment;  
FIG. 12 is a bottom view of the cap component of the first embodiment;  
FIG. 13 is a front view of the cap component of the first embodiment;  
FIG. 14 is a rear view of the cap component of the first embodiment;  
FIG. 15 is a right view of the cap component of the first embodiment;  
FIG. 16 is a left view of the cap component of the first embodiment;  
FIG. 17 is a top and side perspective view of a vial component of the first embodiment;  
FIG. 18 is a bottom and side perspective view of the vial component of the first embodiment;  
FIG. 19 is a top view of the vial component of the first embodiment;  
FIG. 20 is a bottom view of the vial component of the first embodiment;  
FIG. 21 is a side view of the vial component of the first embodiment, the opposing side being a mirror image thereof;  
FIG. 22 is a bottom and side perspective view of a filter component of the first embodiment;  
FIG. 23 is a top and side perspective view of the filter component of the first embodiment;  
FIG. 24 is a top view of the filter component of the first embodiment;  
FIG. 25 is a bottom view of the filter component of the first embodiment;  
FIG. 26 is a side view of the filter component of the first embodiment, the opposing side being a mirror image thereof;  
FIG. 27 is a top and right perspective view of a marker component of the first embodiment;  
FIG. 28 is a bottom and front perspective view of the marker component of the first embodiment;  
FIG. 29 is a top view of the marker component of the first embodiment;  
FIG. 30 is a bottom view of the marker component of the first embodiment;  
FIG. 31 is a front view of the marker component of the first embodiment;  
FIG. 32 is a right view of the marker component of the first embodiment;  
FIG. 33 is a rear view of the marker component of the first embodiment;  
FIG. 34 is a left view of the marker component of the first embodiment;  
FIG. 35 is a right and top perspective view of a second embodiment of a polyp trap assembly showing my new design;  
FIG. 36 is a left and bottom perspective view of the second embodiment;  
FIG. 37 is a top view of the second embodiment;  
FIG. 38 is a bottom view of the second embodiment;

FIG. 39 is a front view of the second embodiment;  
FIG. 40 is a right view of the second embodiment;  
FIG. 41 is a rear view of the second embodiment;  
FIG. 42 is a left view of the second embodiment;  
FIG. 43 is a front and top perspective view of a cap component of the second embodiment;  
FIG. 44 is a front and bottom perspective view of the cap component of the second embodiment;  
FIG. 45 is a top view of the cap component of the second embodiment;  
FIG. 46 is a bottom view of the cap component of the second embodiment;  
FIG. 47 is a front view of the cap component of the second embodiment;  
FIG. 48 is a rear view of the cap component of the second embodiment;  
FIG. 49 is a right view of the cap component of the second embodiment;  
FIG. 50 is a left view of the cap component of the second embodiment;  
FIG. 51 is a top and side perspective view of a vial component of the second embodiment;  
FIG. 52 is a bottom and side perspective view of the vial component of the second embodiment;  
FIG. 53 is a top view of the vial component of the second embodiment;  
FIG. 54 is a bottom view of the vial component of the second embodiment;  
FIG. 55 is a side view of the vial component of the second embodiment, the opposing side being a mirror image thereof;  
FIG. 56 is a bottom and side perspective view of a filter component of the second embodiment;  
FIG. 57 is a top and side perspective view of the filter component of the second embodiment;  
FIG. 58 is a top view of the filter component of the second embodiment;  
FIG. 59 is a bottom view of the filter component of the second embodiment;  
FIG. 60 is a side view of the filter component of the second embodiment, the opposing side being a mirror image thereof;  
FIG. 61 is a top and right perspective view of a marker component of the second embodiment;  
FIG. 62 is a bottom and left perspective view of the marker component of the second embodiment;  
FIG. 63 is a top view of the marker component of the second embodiment;  
FIG. 64 is a bottom view of the marker component of the second embodiment;  
FIG. 65 is a front view of the marker component of the second embodiment;  
FIG. 66 is a right view of the marker component of the second embodiment;  
FIG. 67 is a rear view of the marker component of the second embodiment; and,  
FIG. 68 is a left view of the marker component of the second embodiment.  
Additional embodiments are contemplated, including embodiments that do not include alpha-numeric characters or that include different alpha-numeric characters on the marker components.

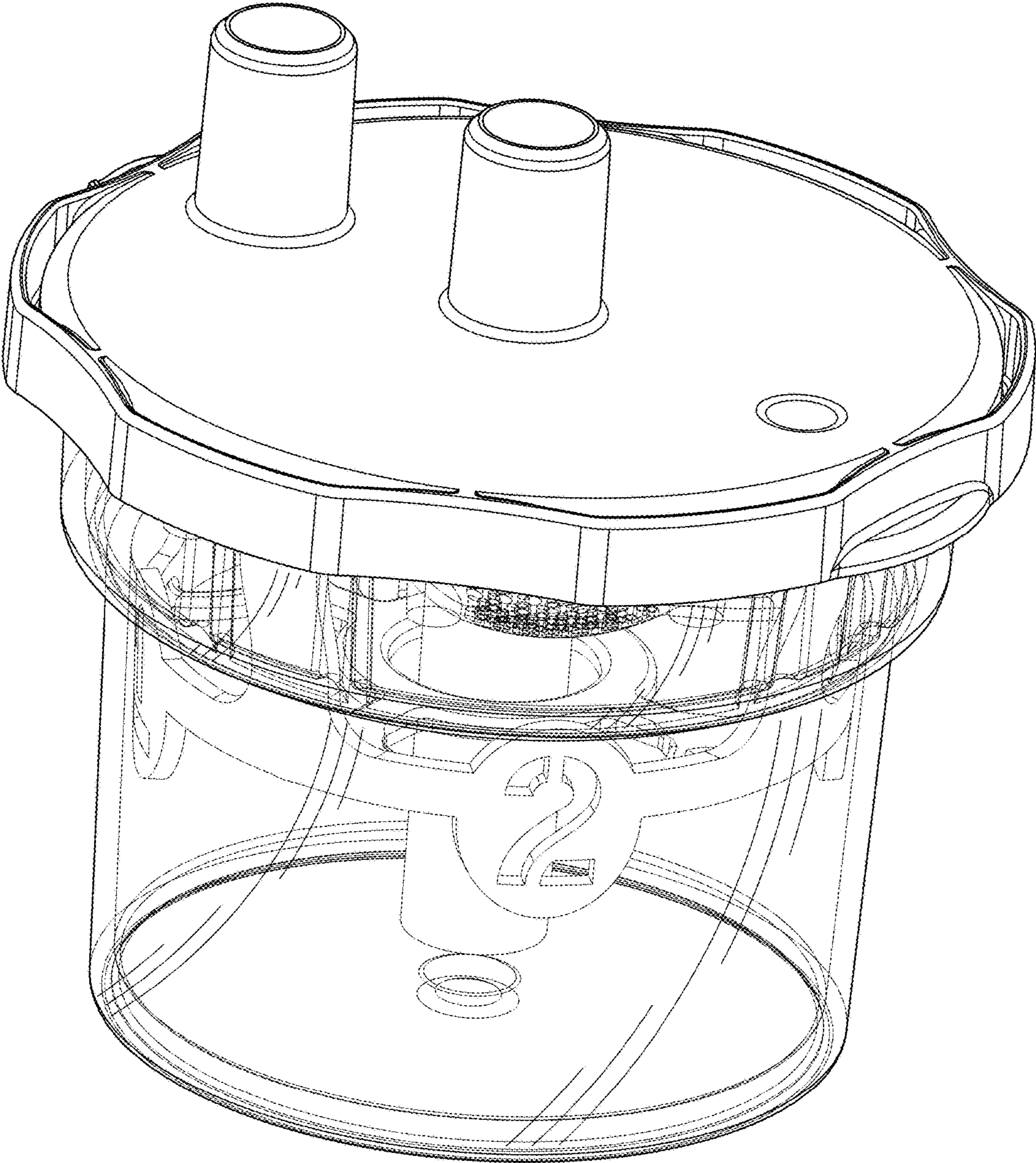


FIG. 1



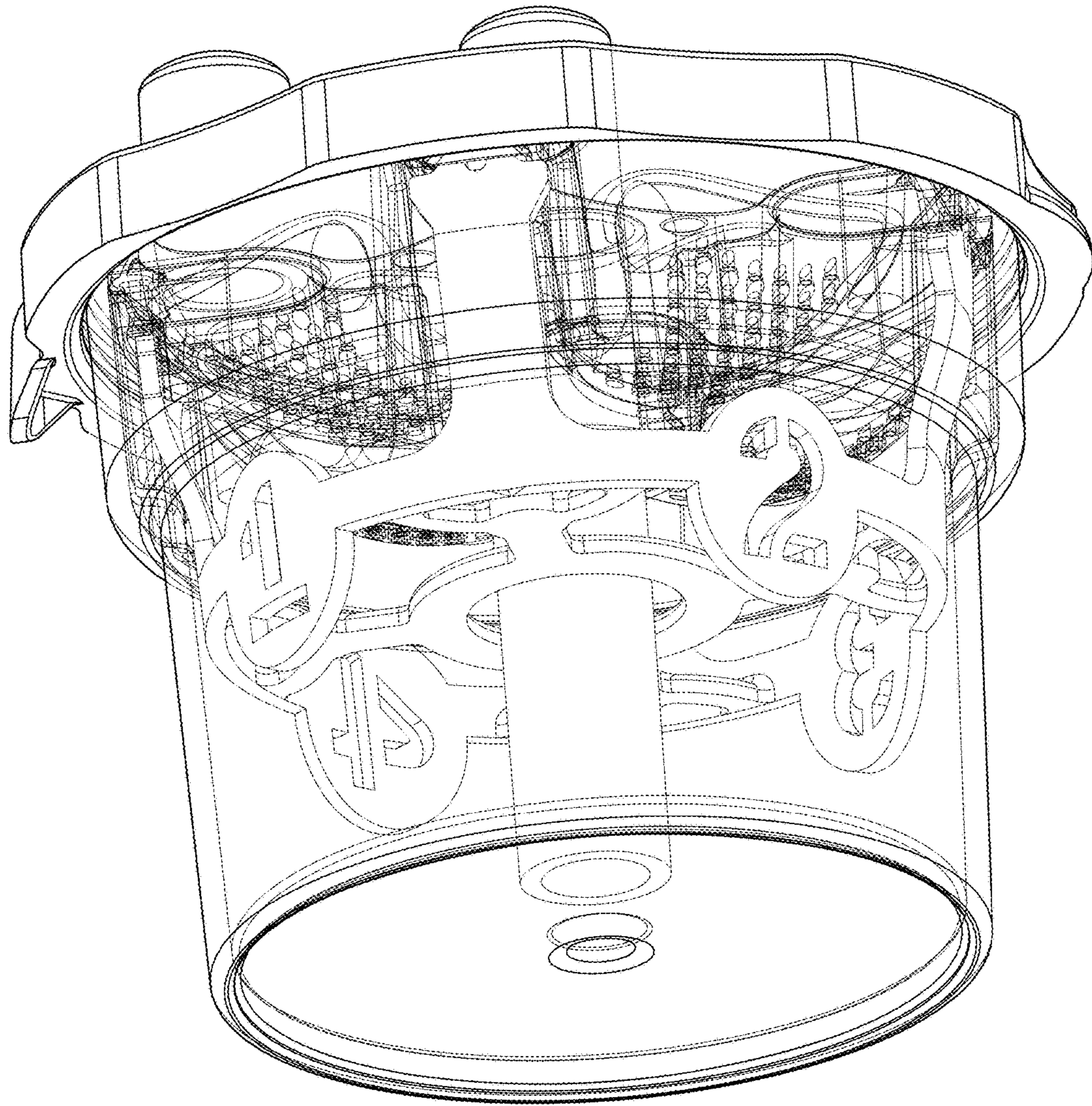


FIG. 2

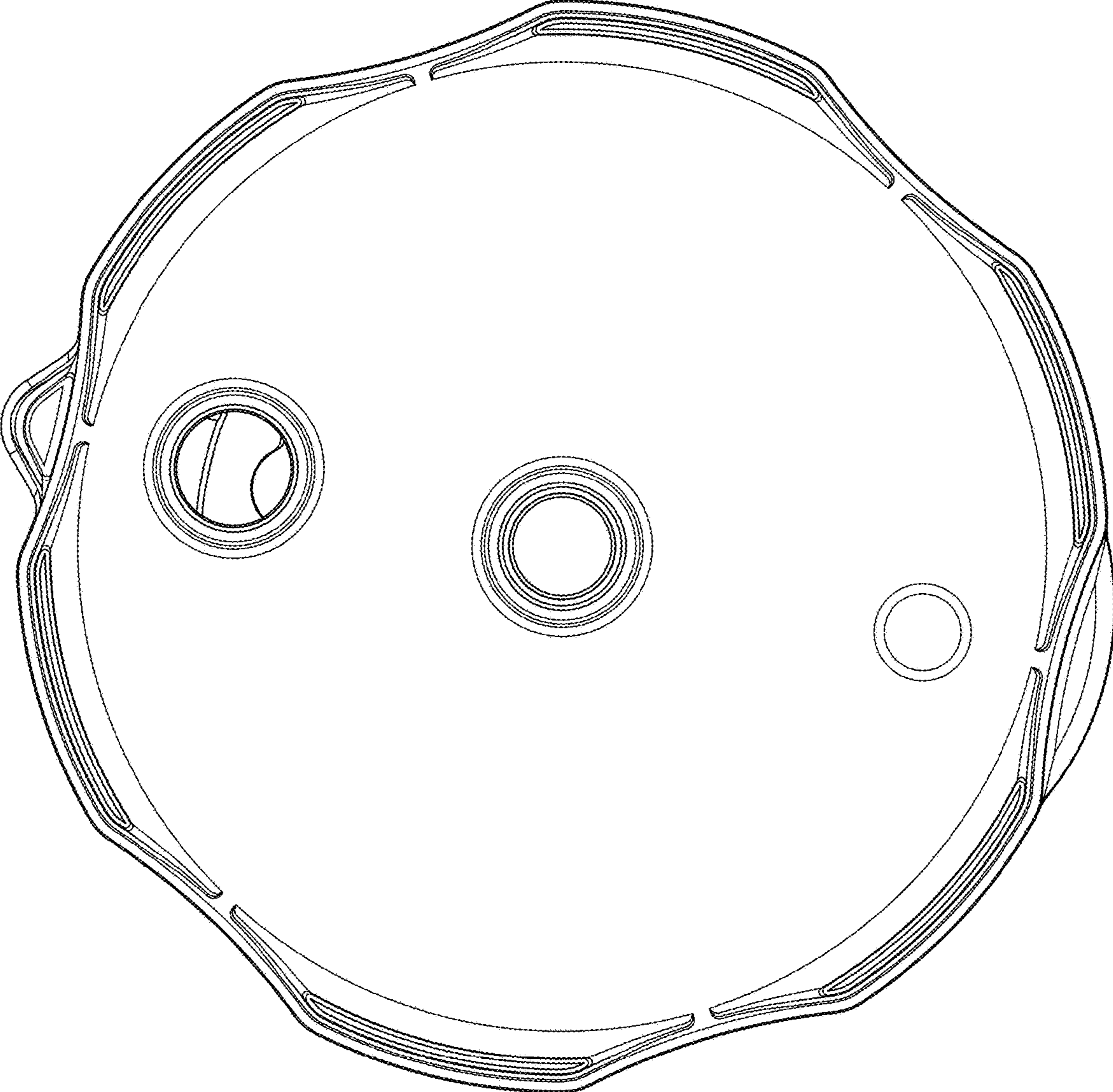


FIG. 3



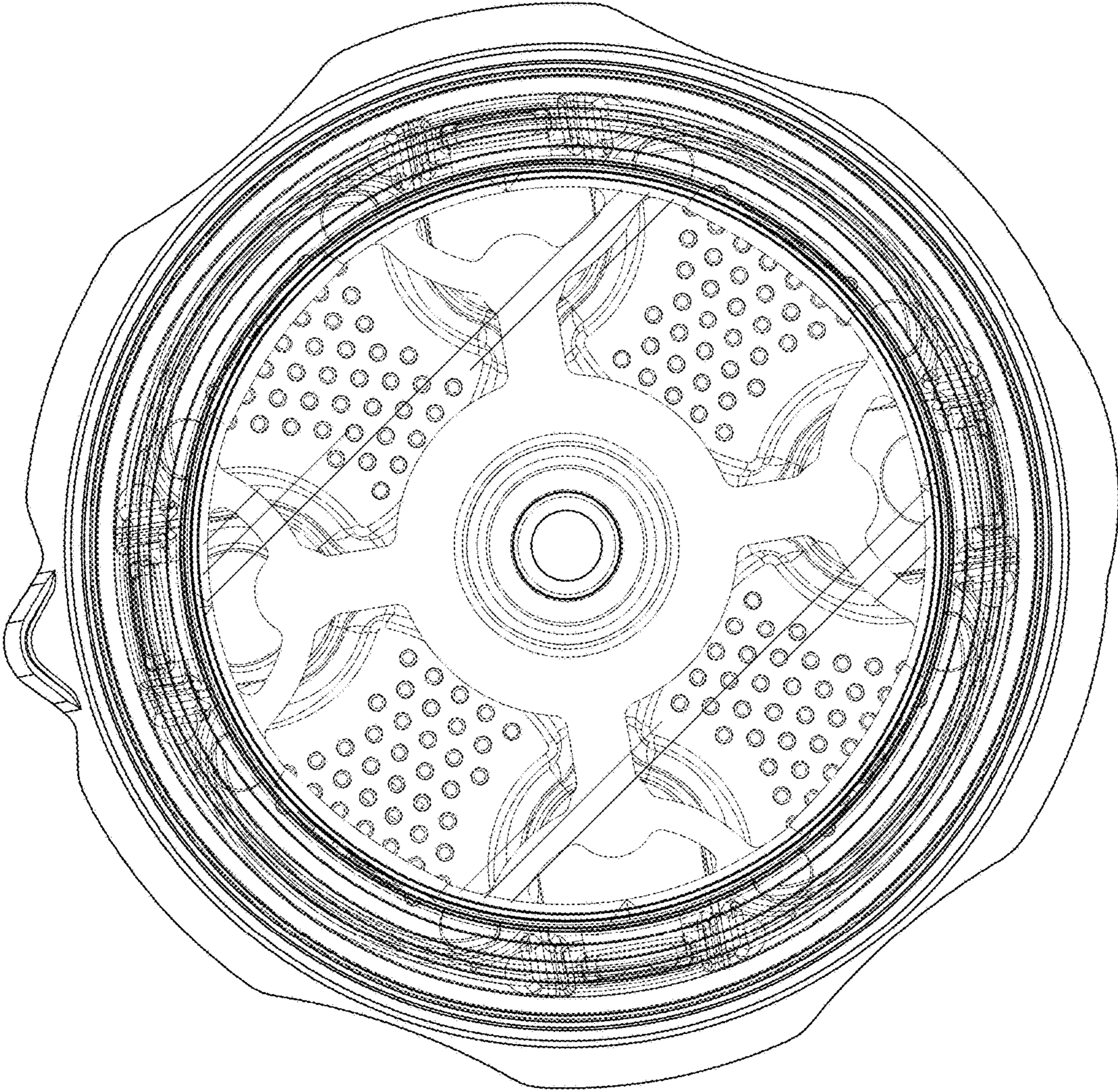


FIG. 4

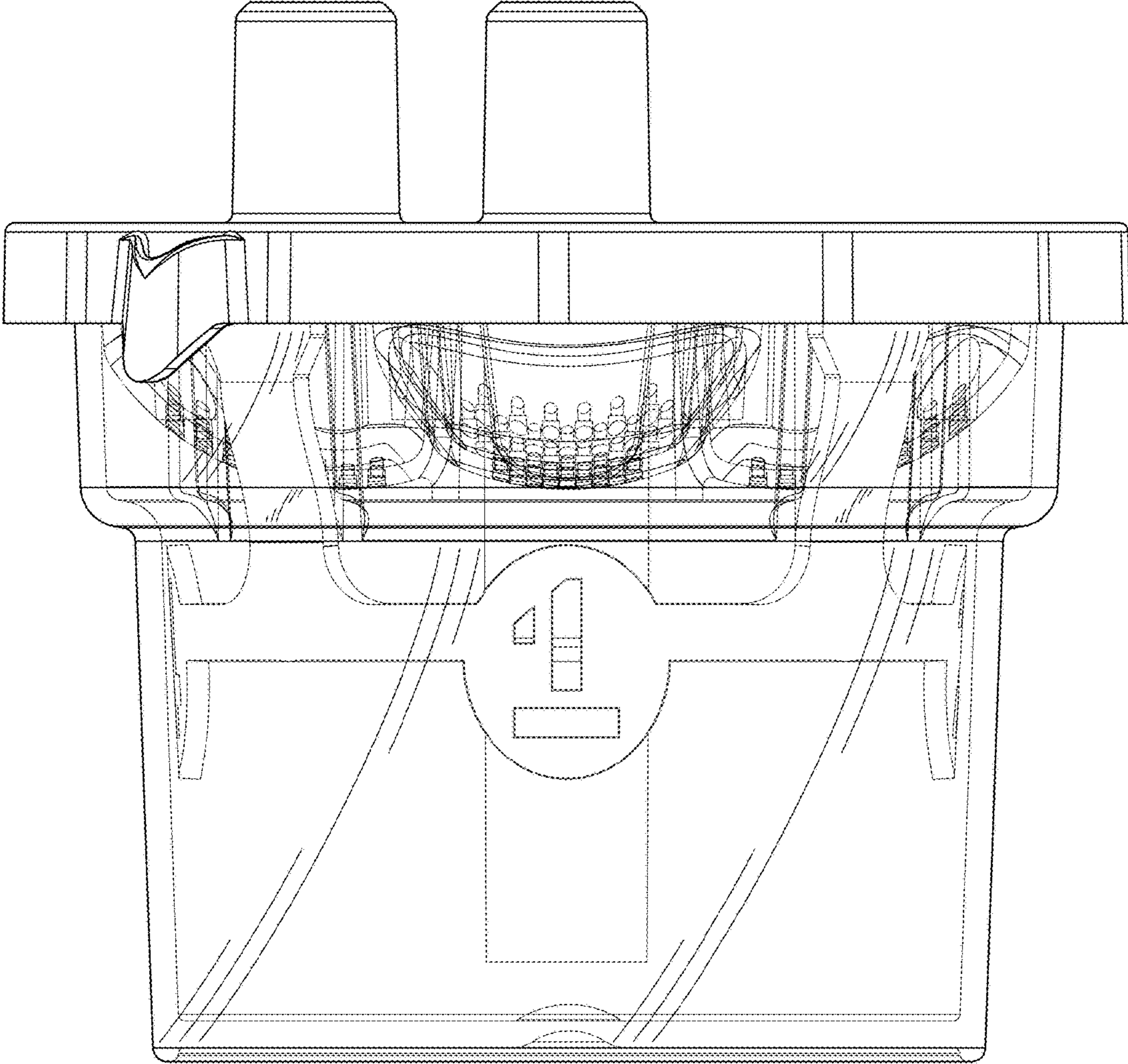


FIG. 5



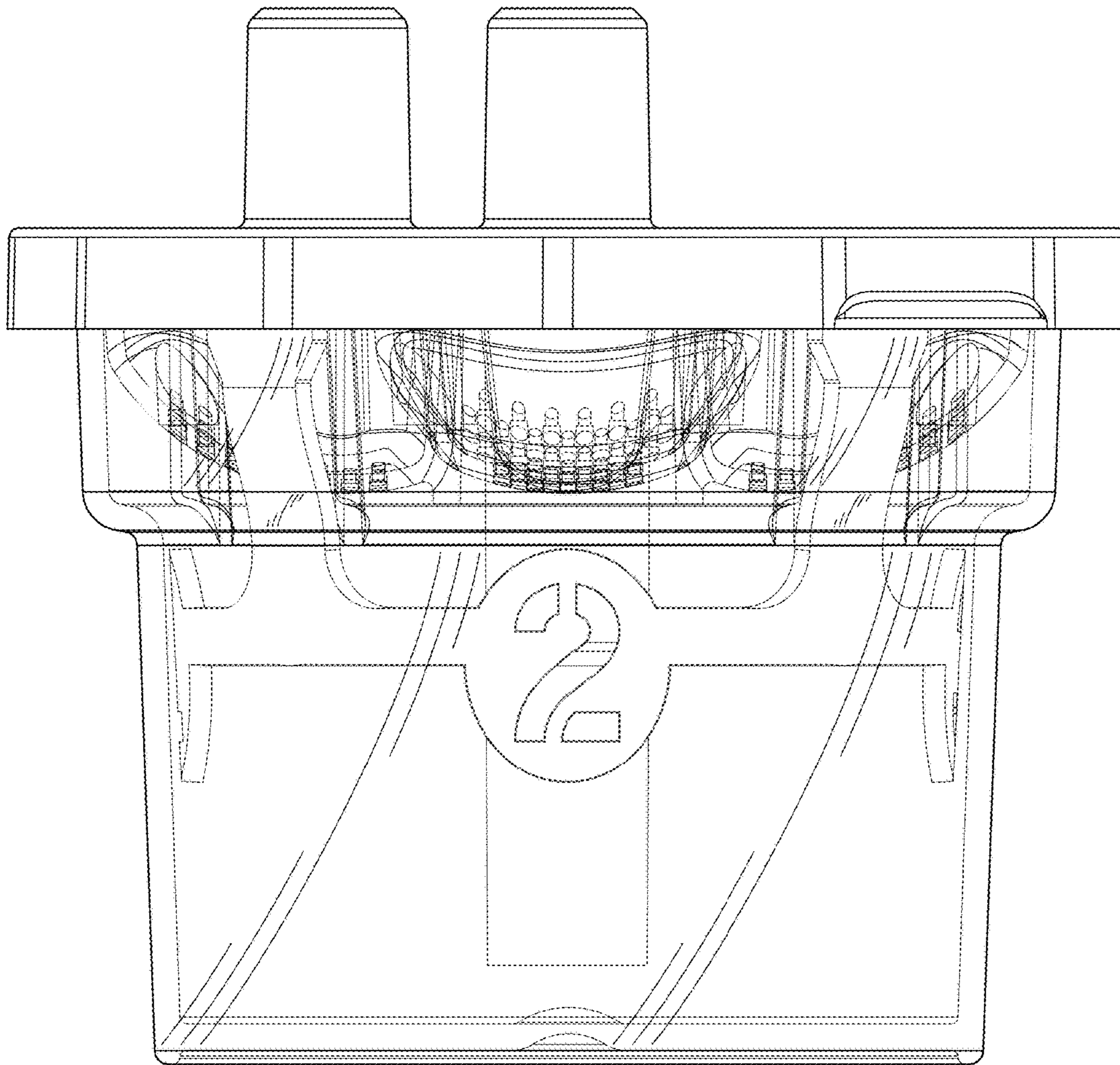


FIG. 6



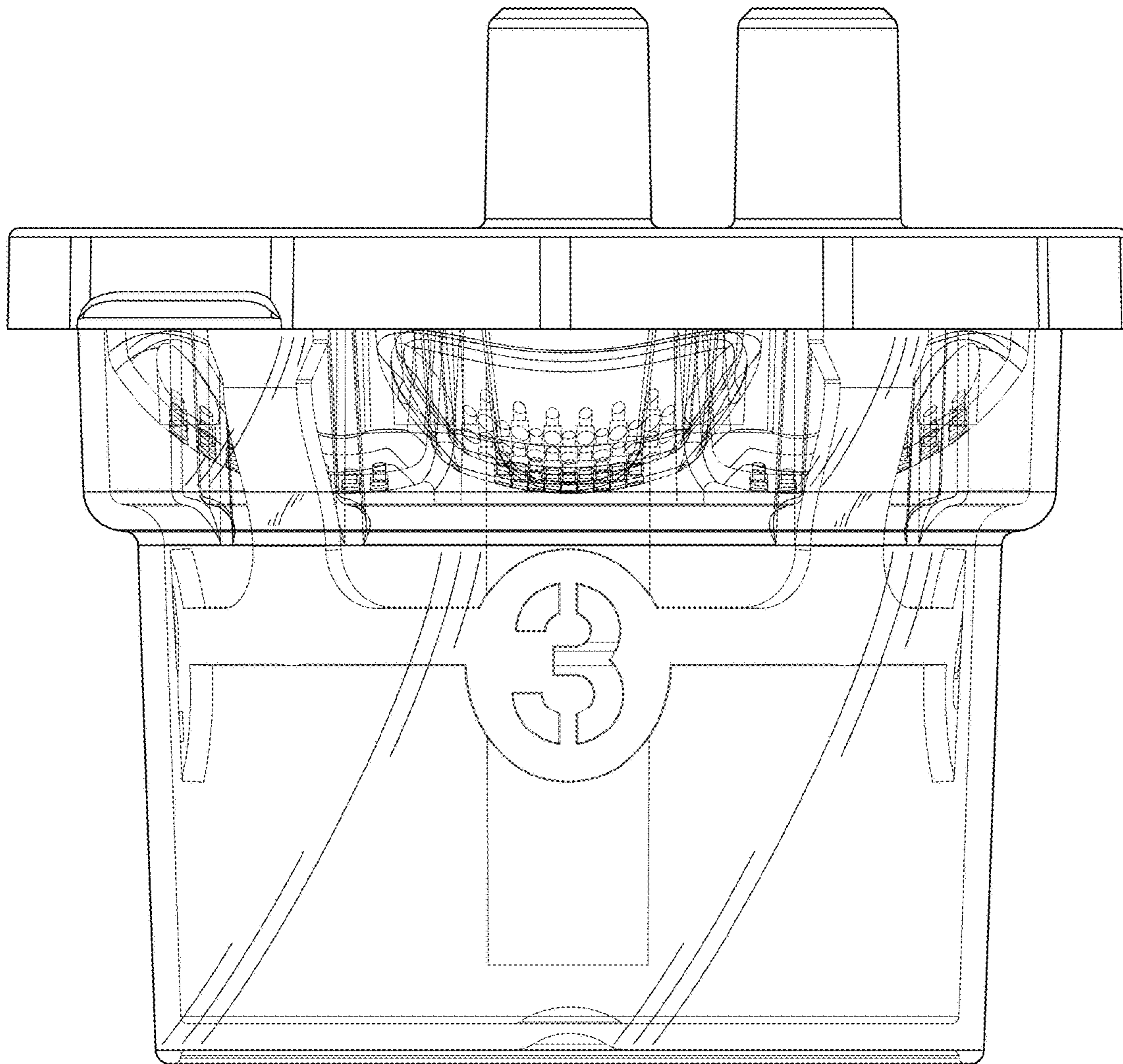


FIG. 7

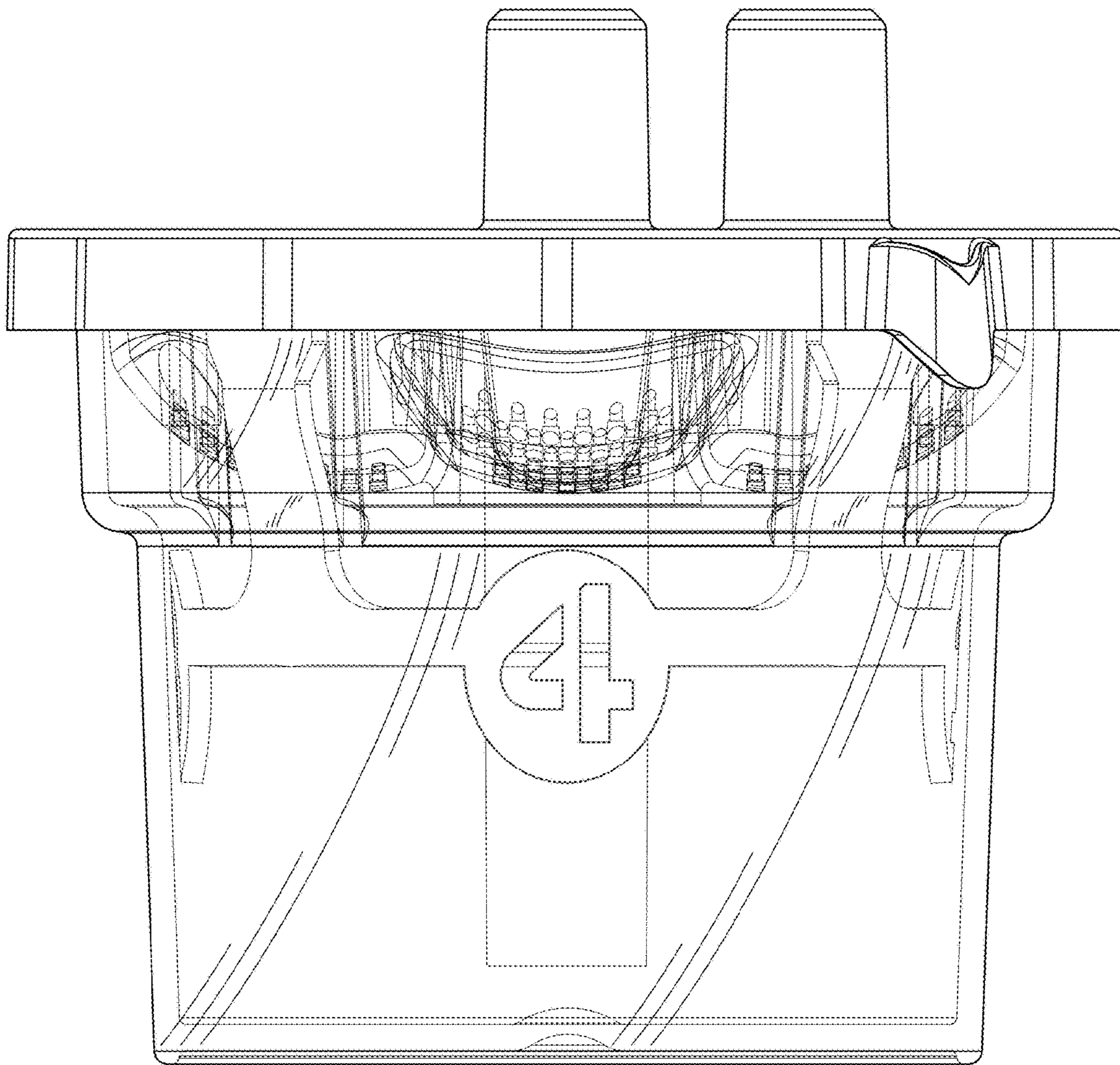


FIG. 8



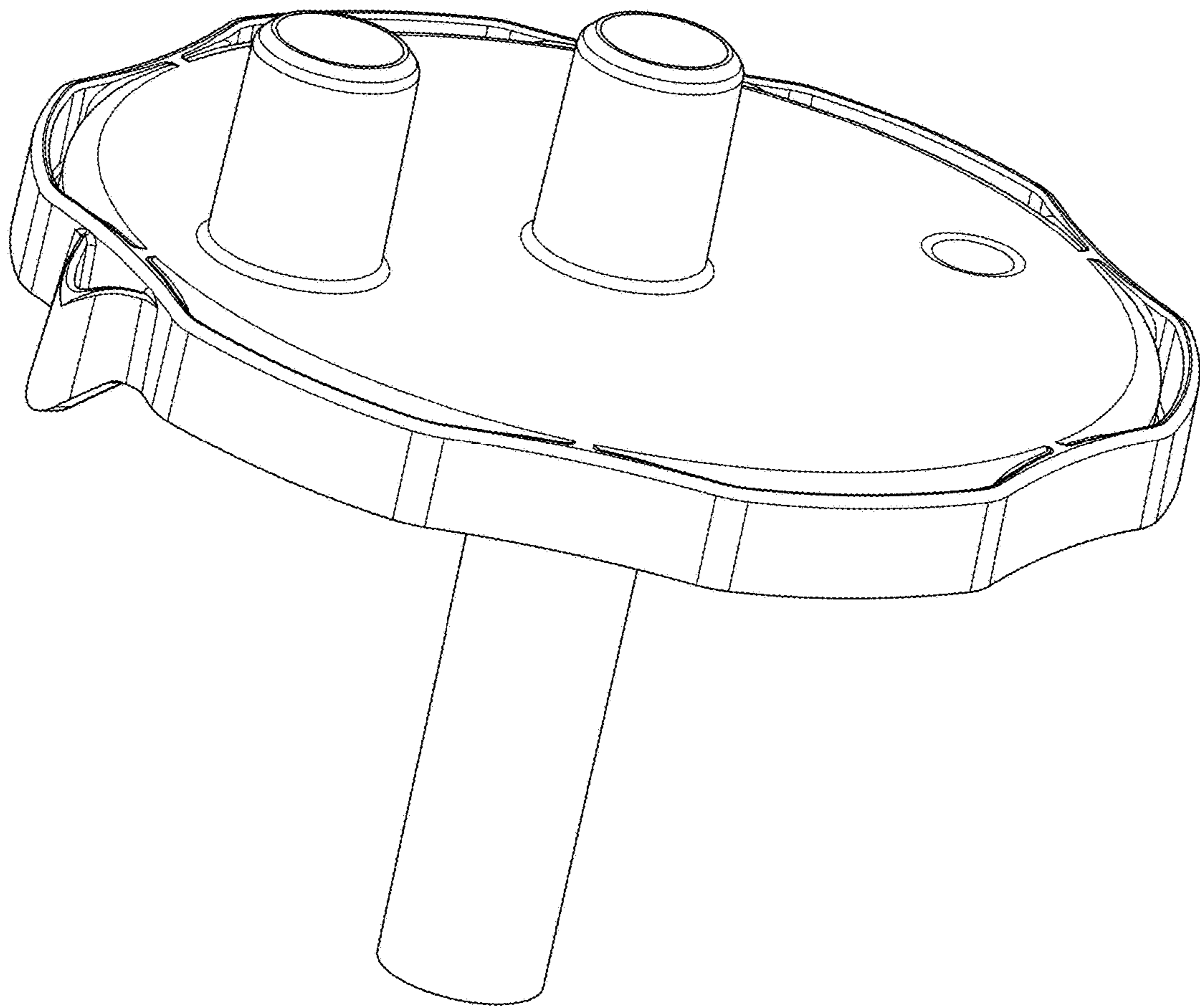


FIG. 9

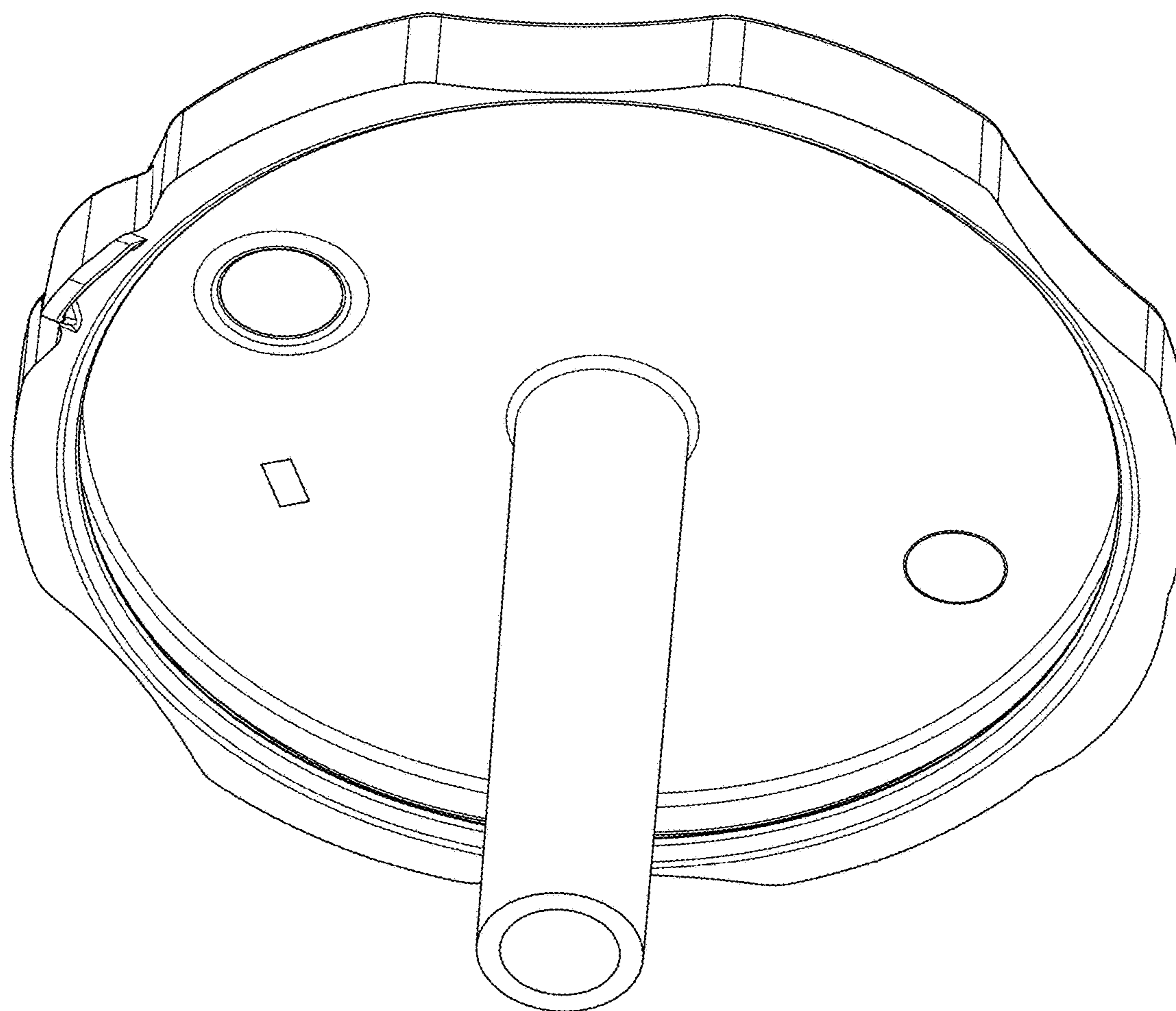


FIG. 10



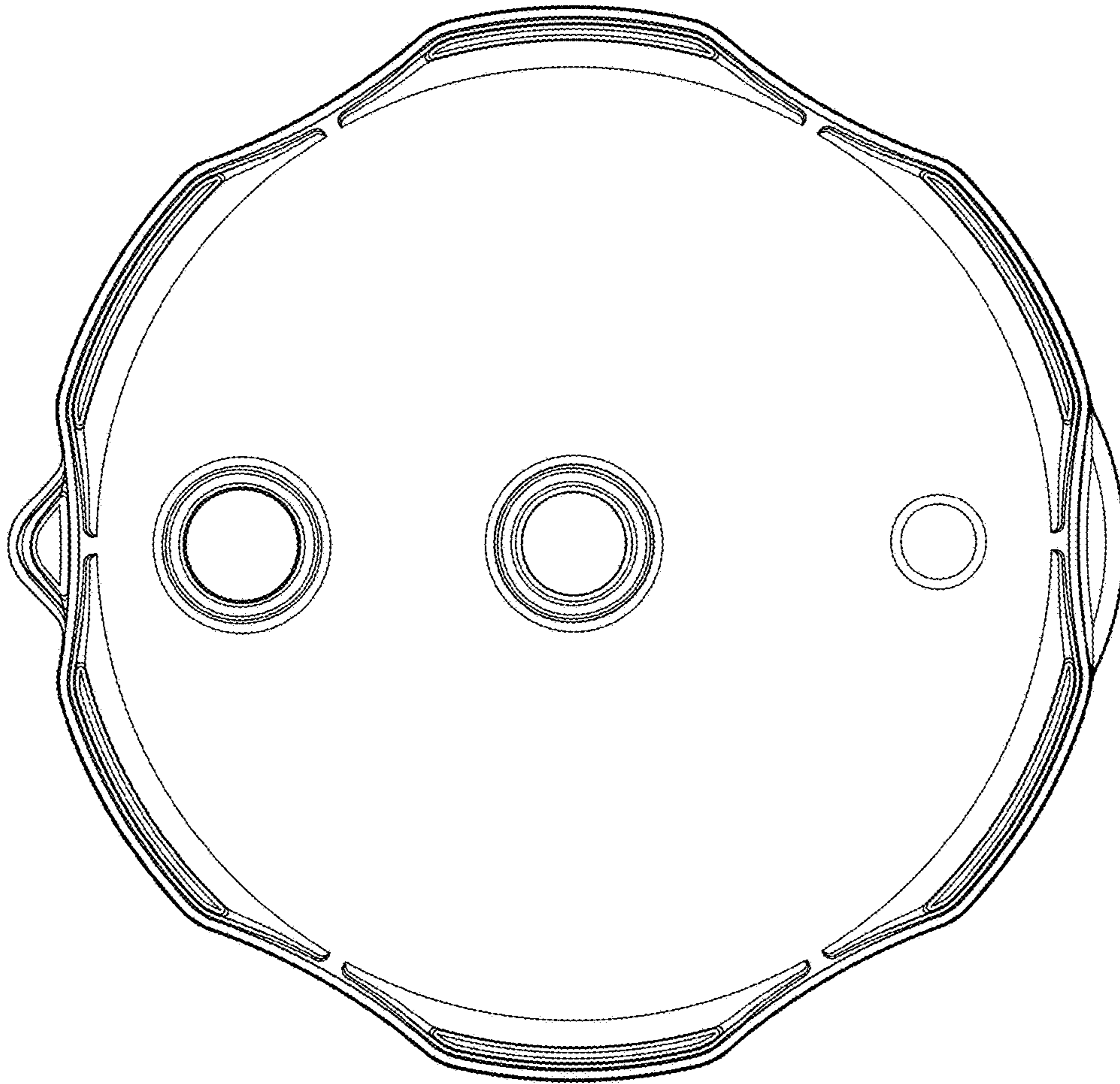


FIG. 11

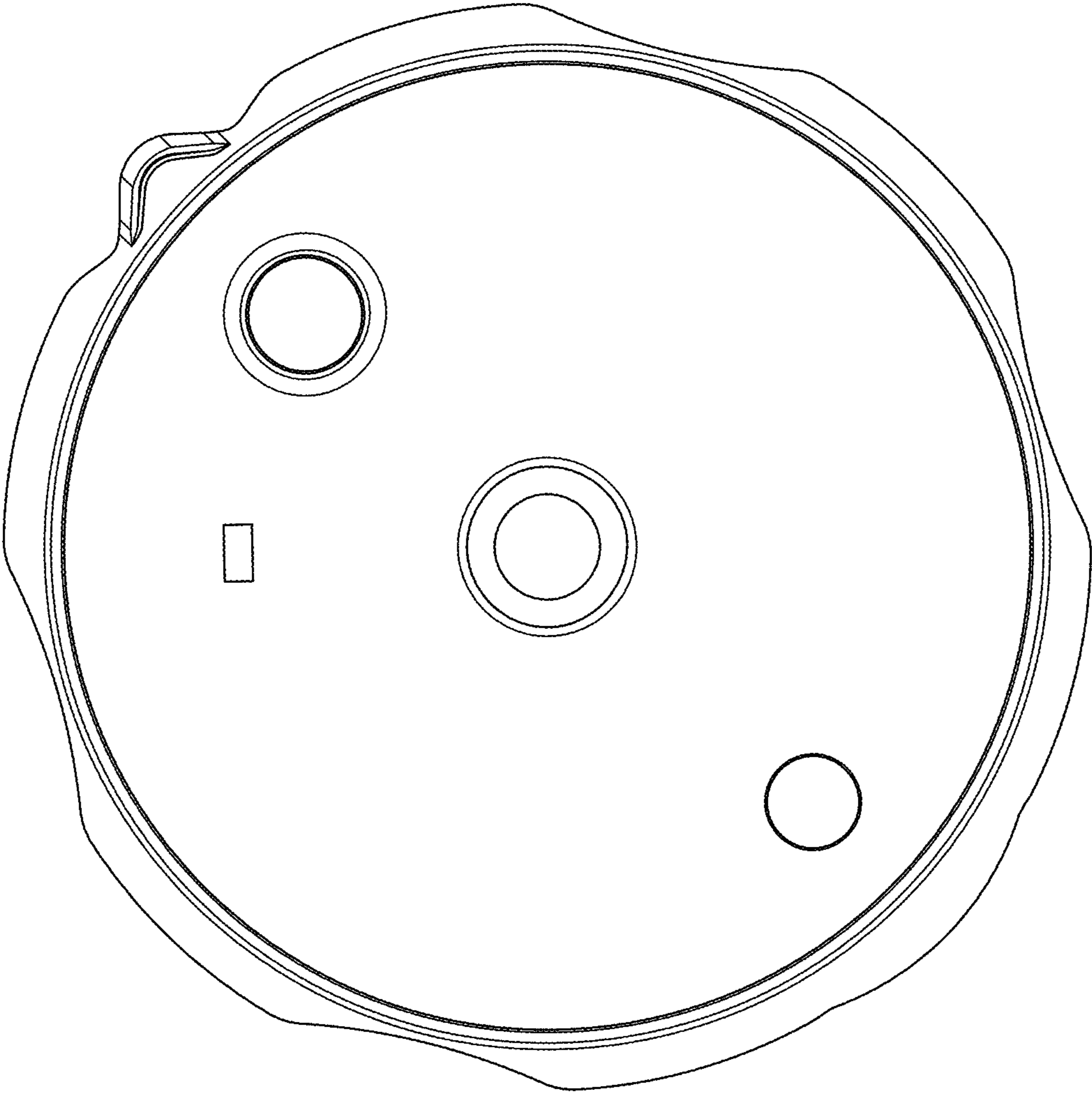


FIG. 12



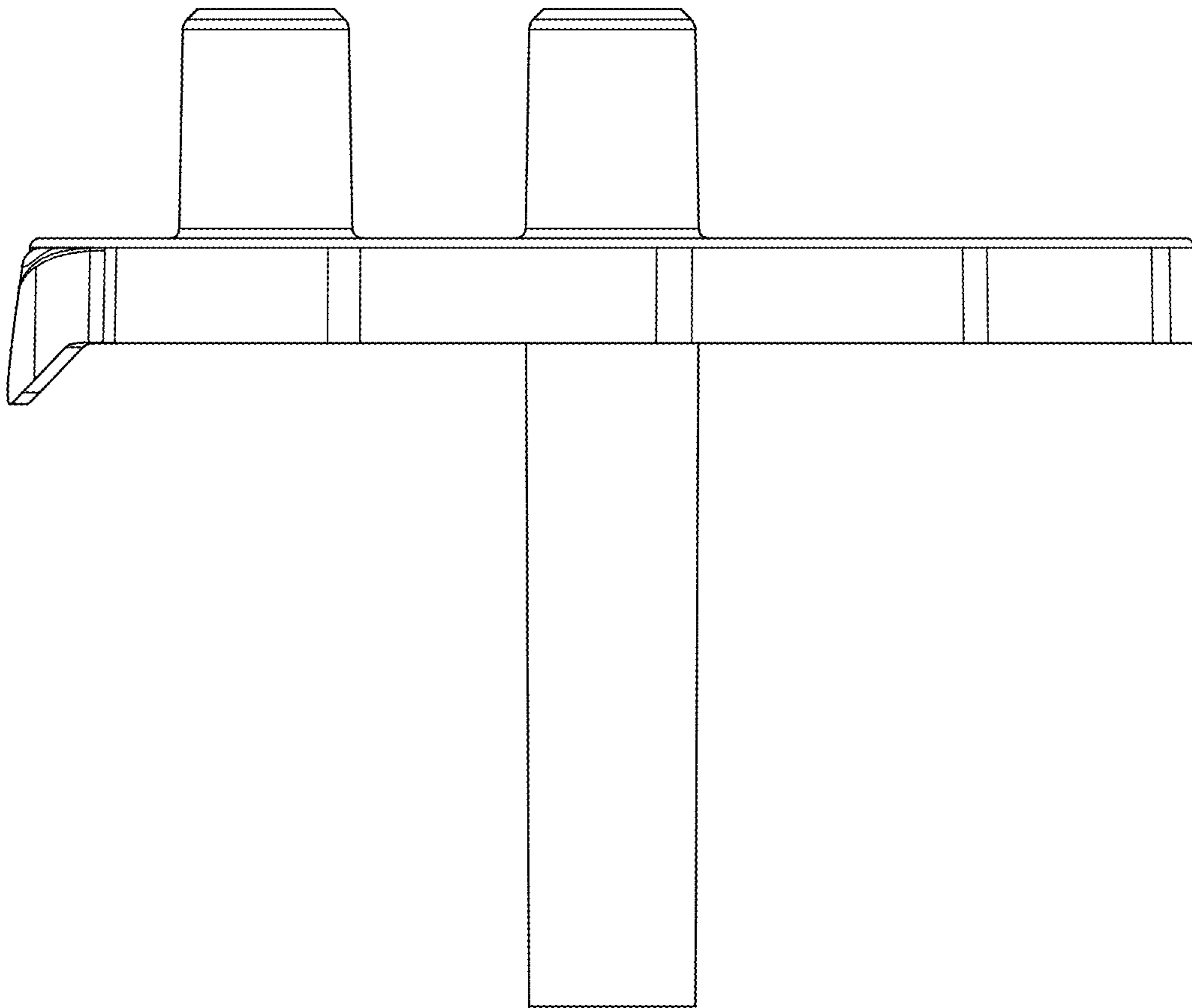


FIG. 13

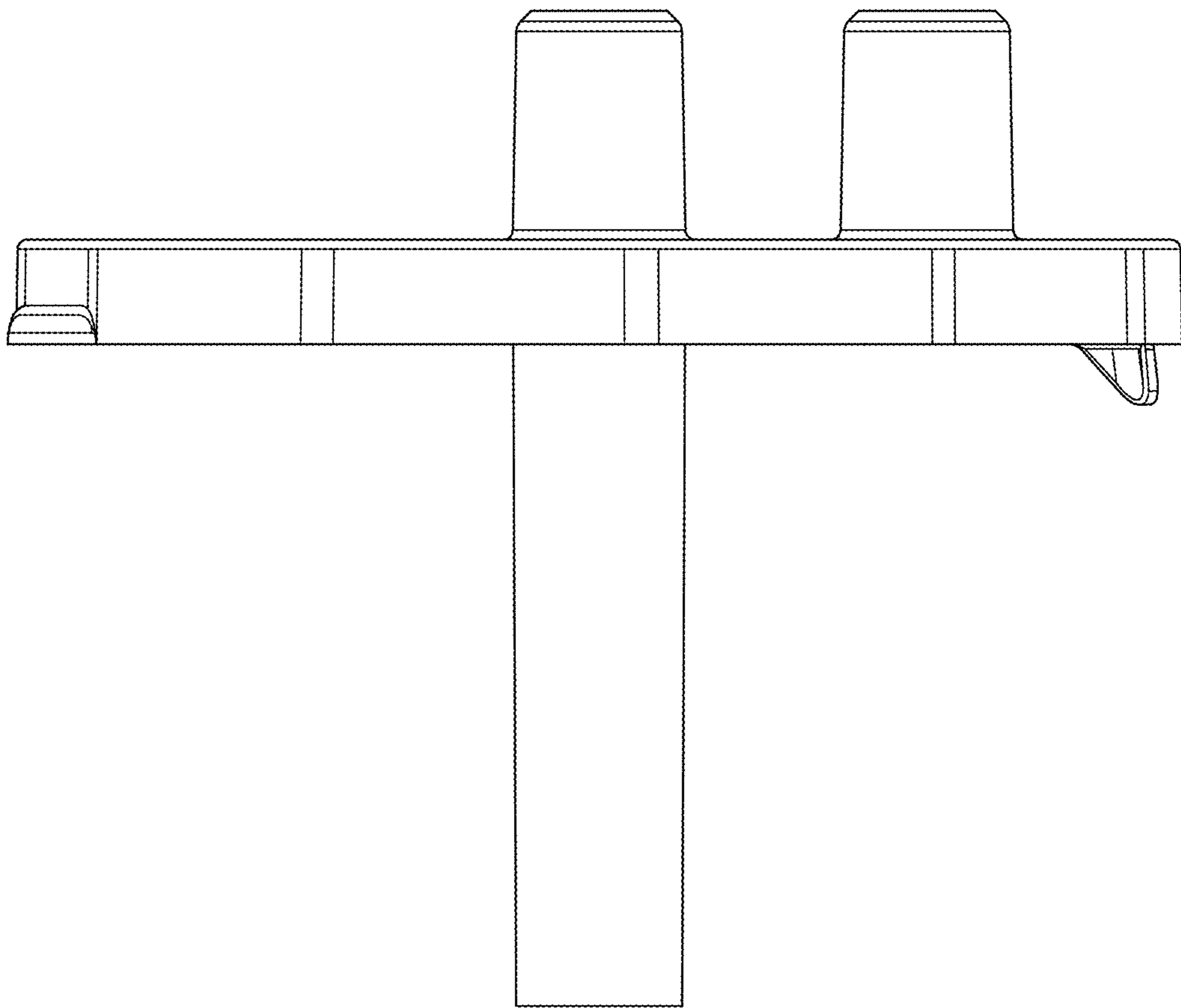


FIG. 14

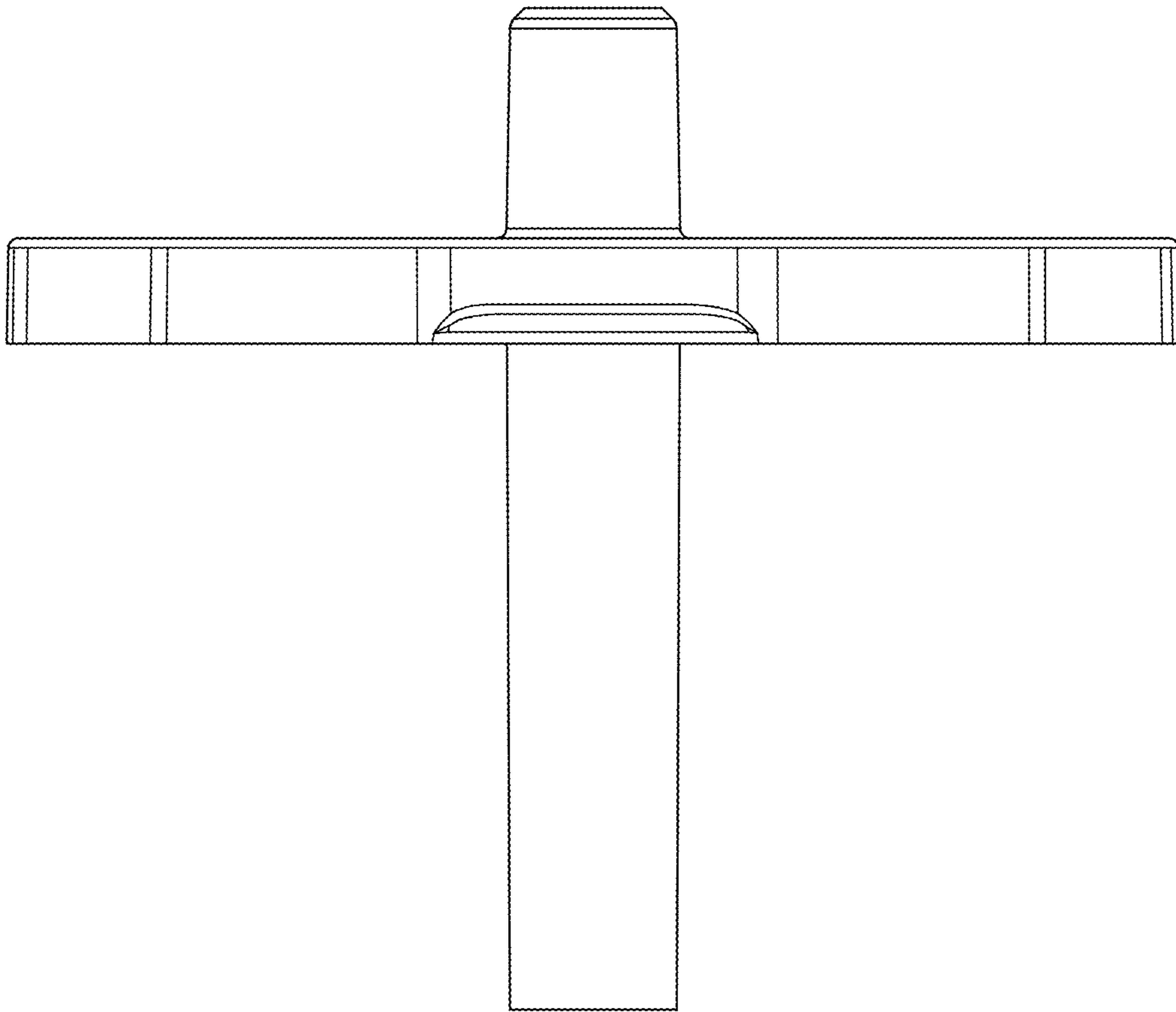


FIG. 15



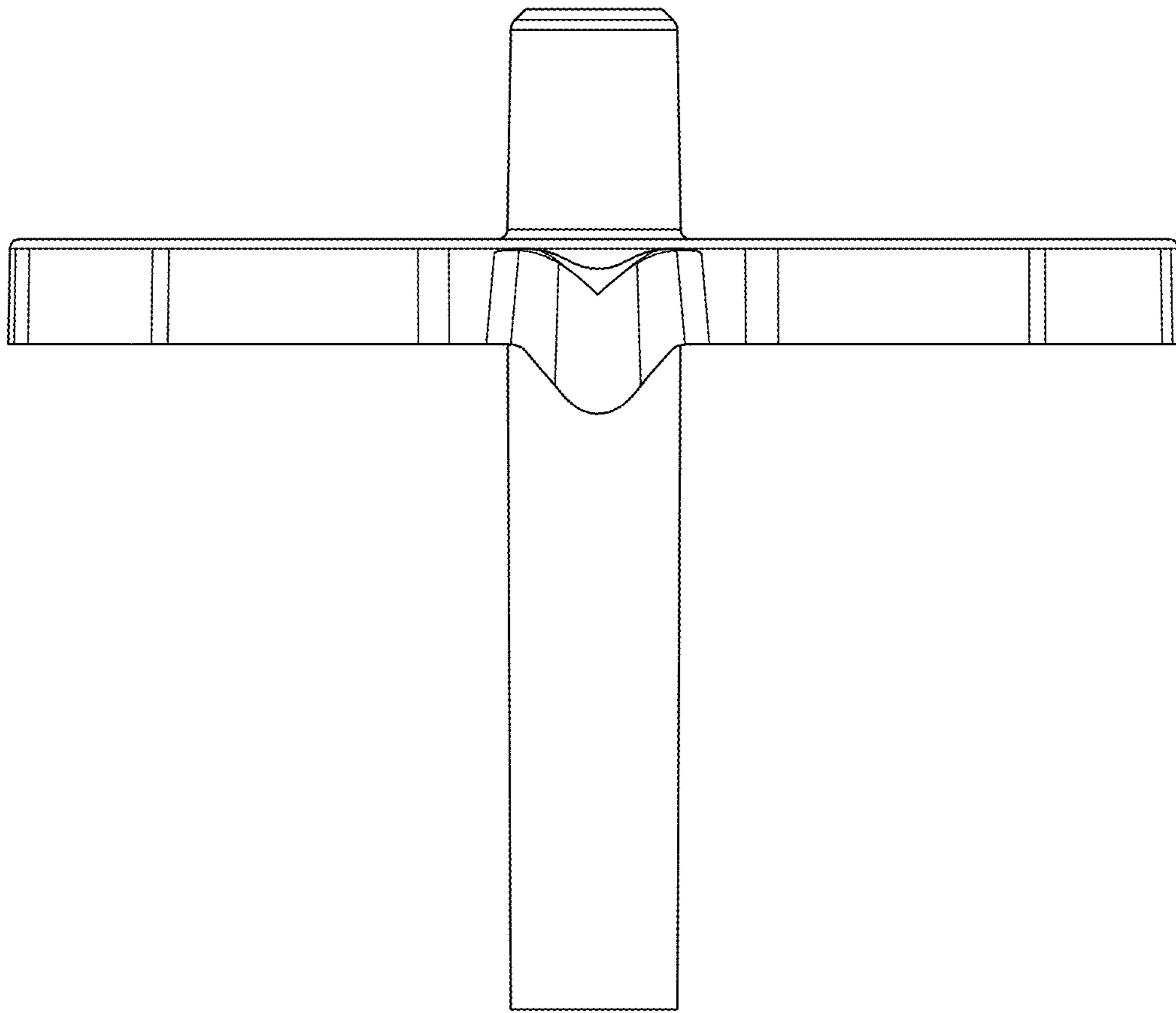


FIG. 16

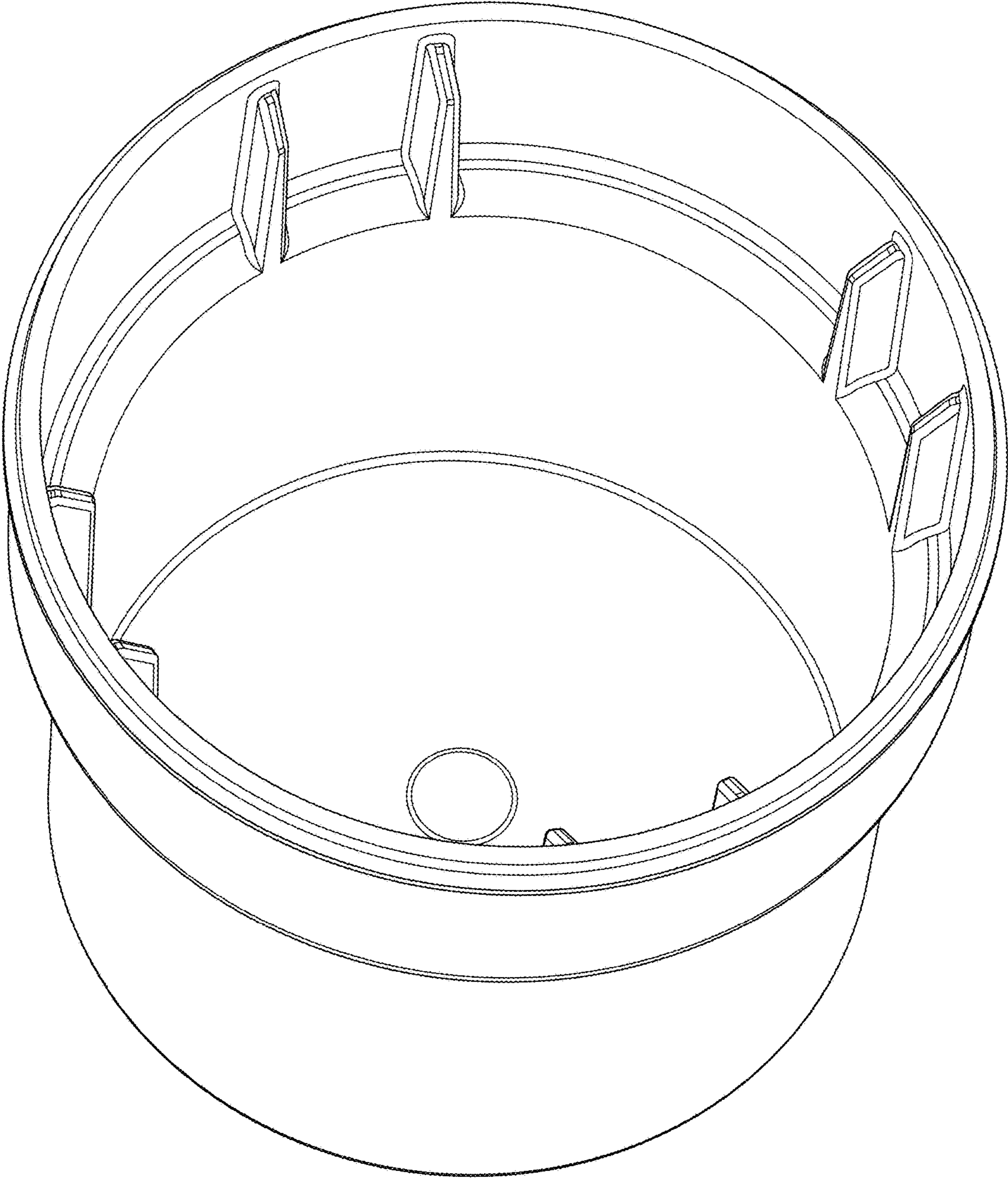


FIG. 17

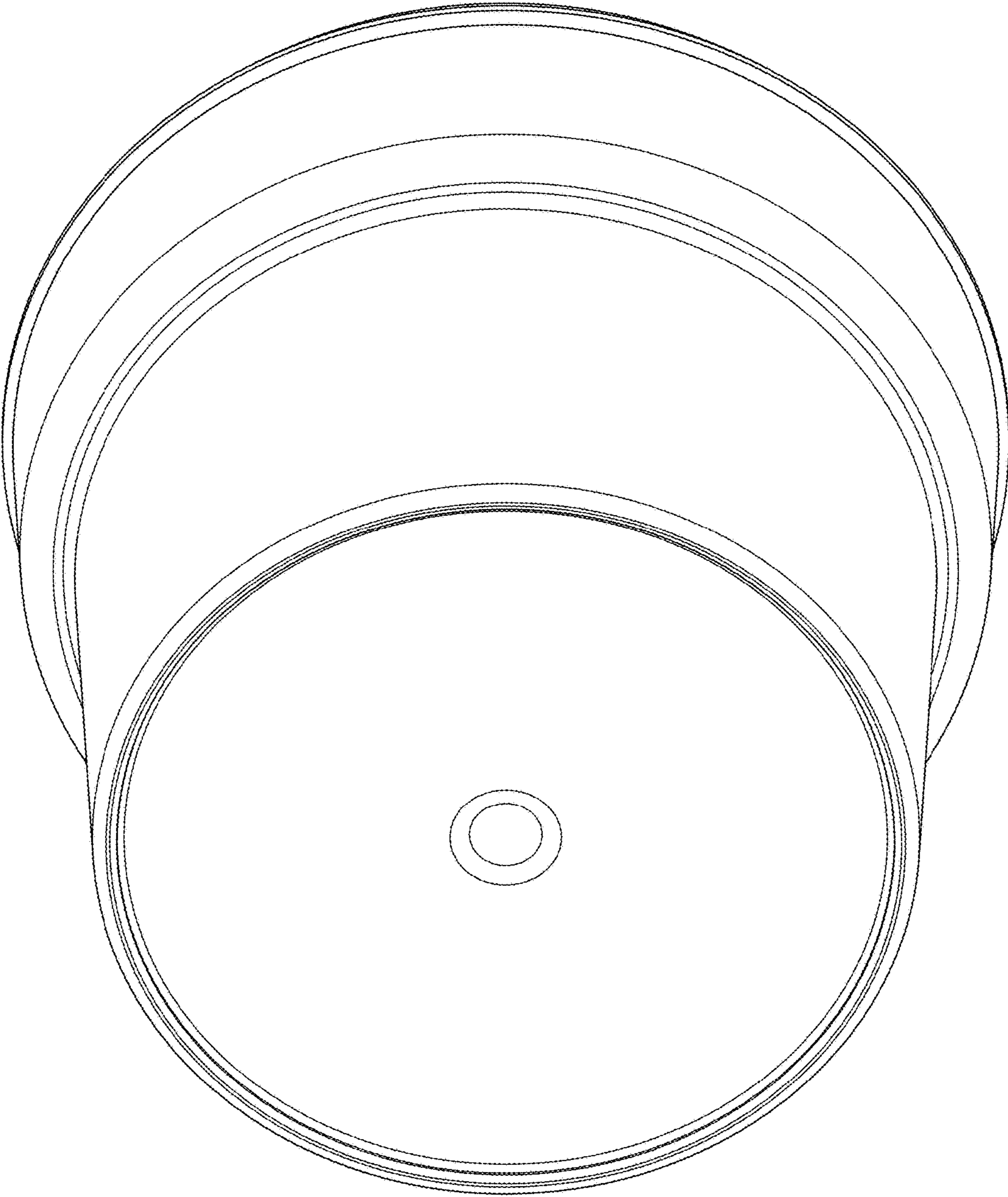


FIG. 18



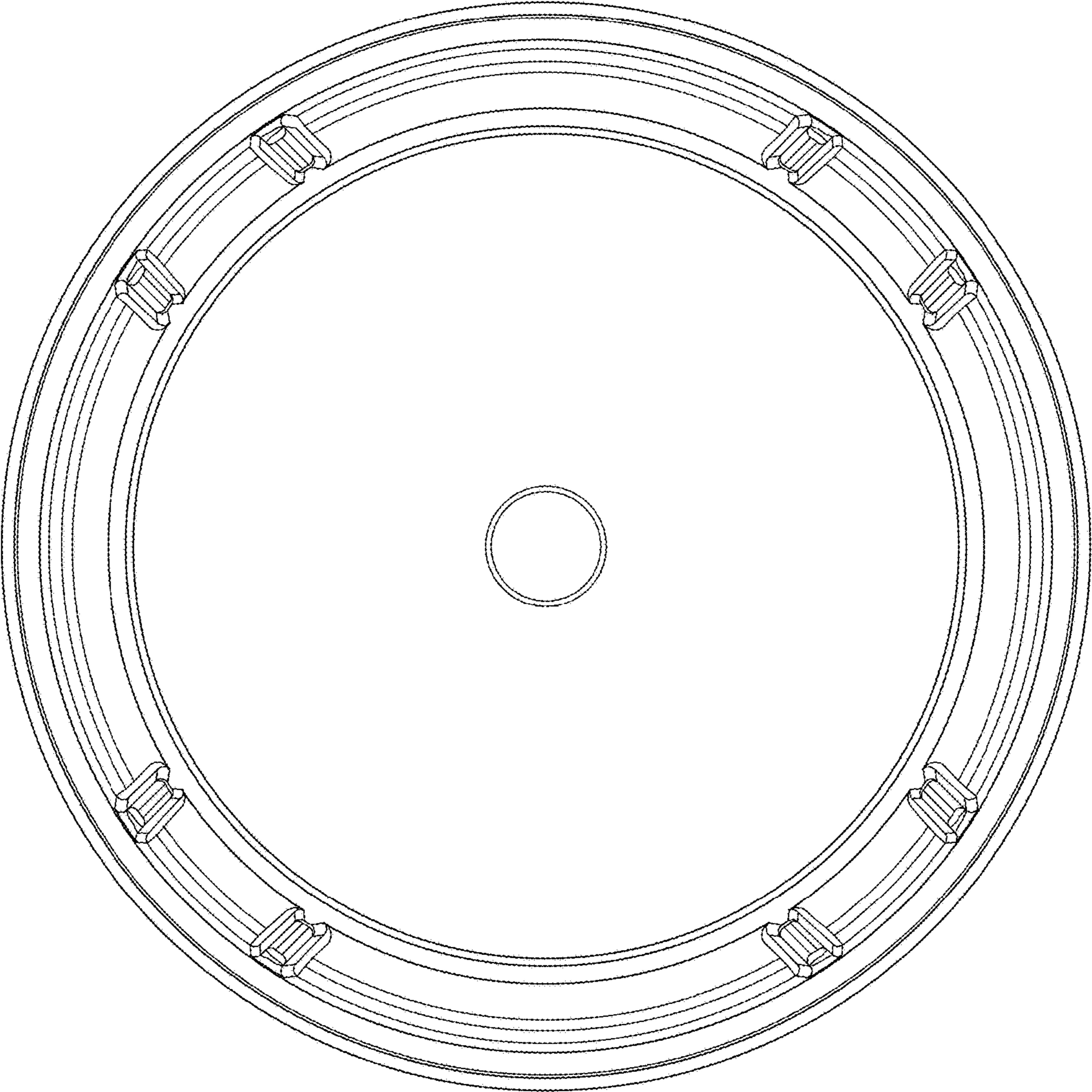


FIG. 19

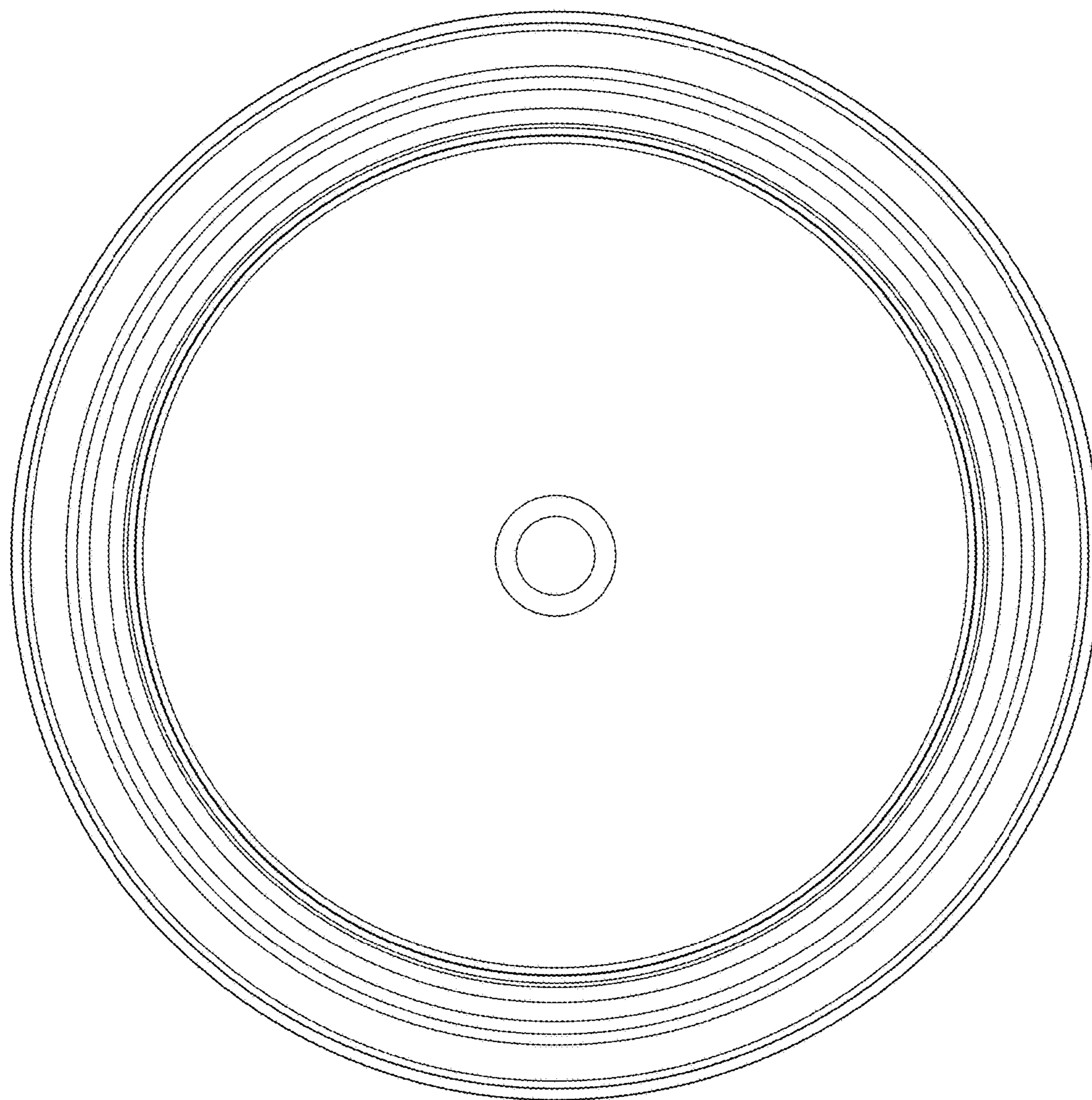


FIG. 20

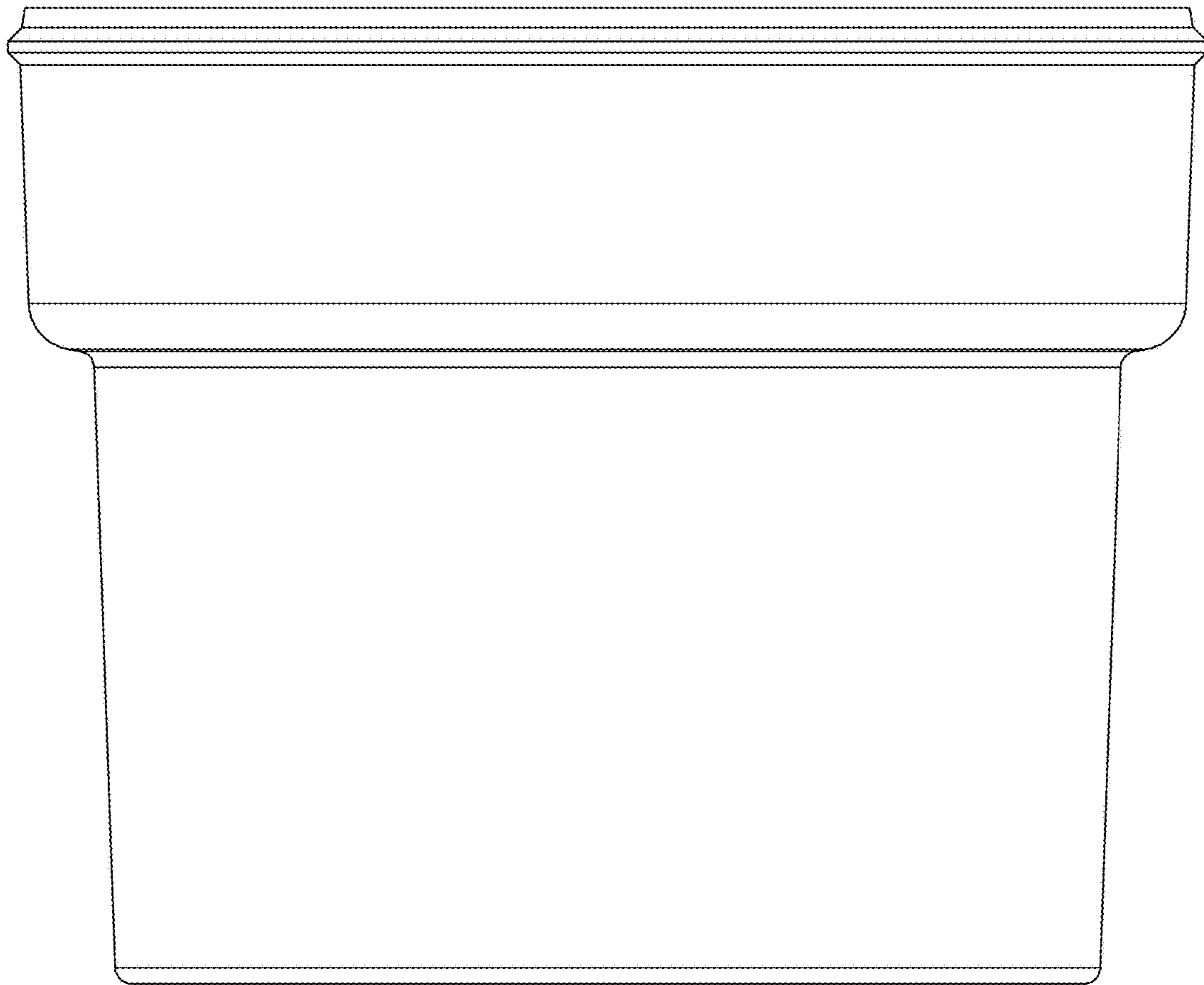


FIG. 21



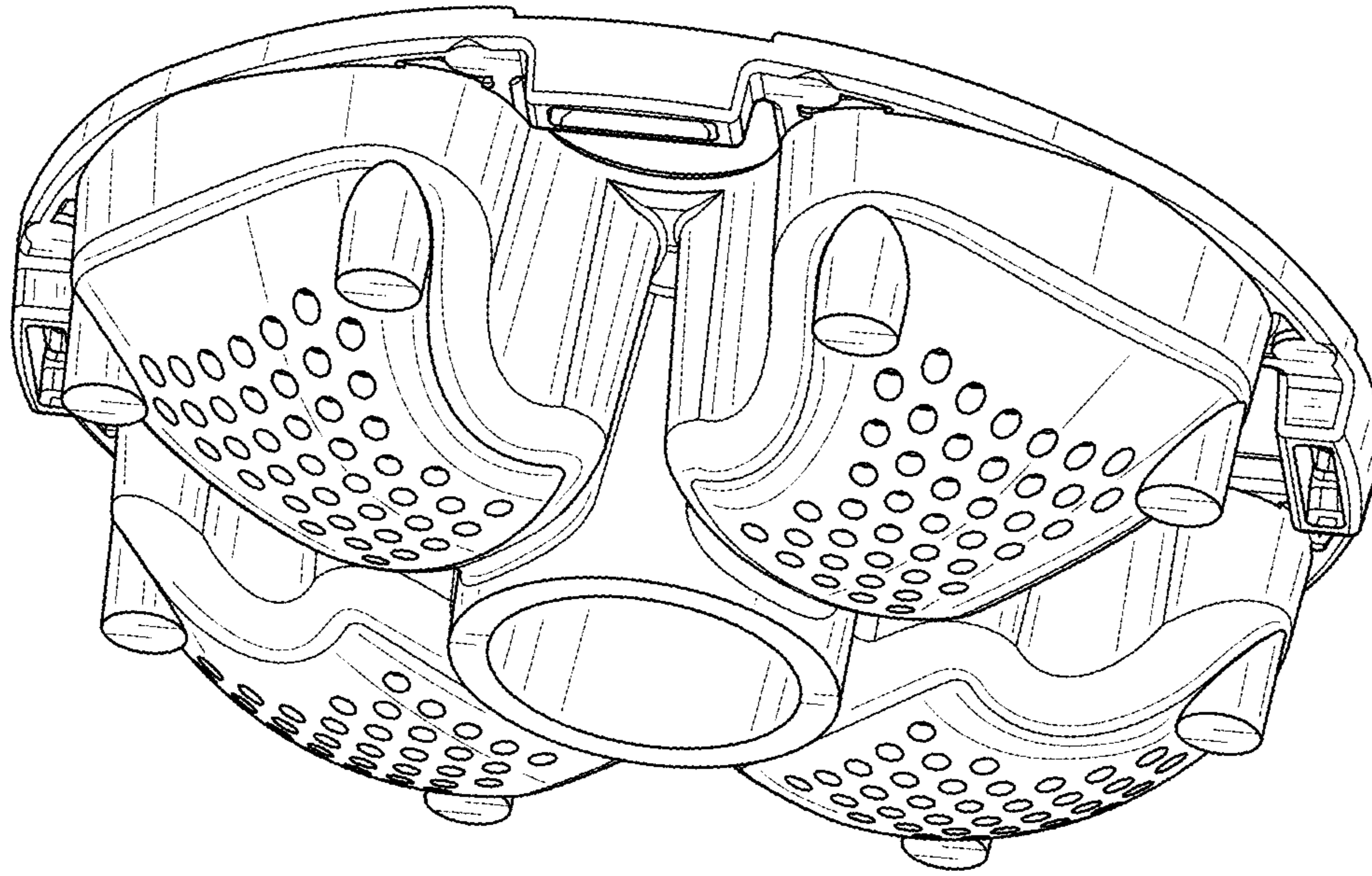


FIG. 22

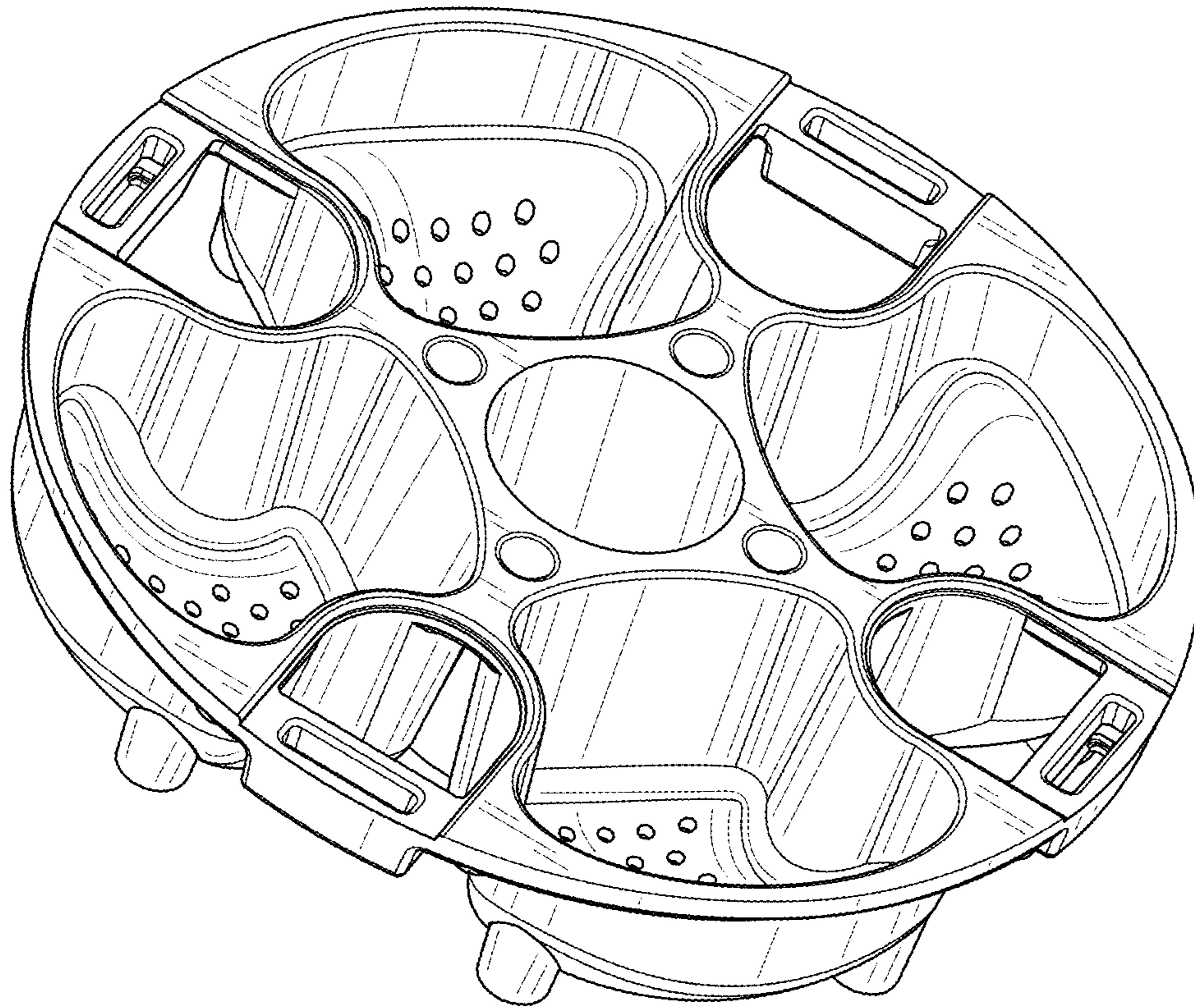


FIG. 23

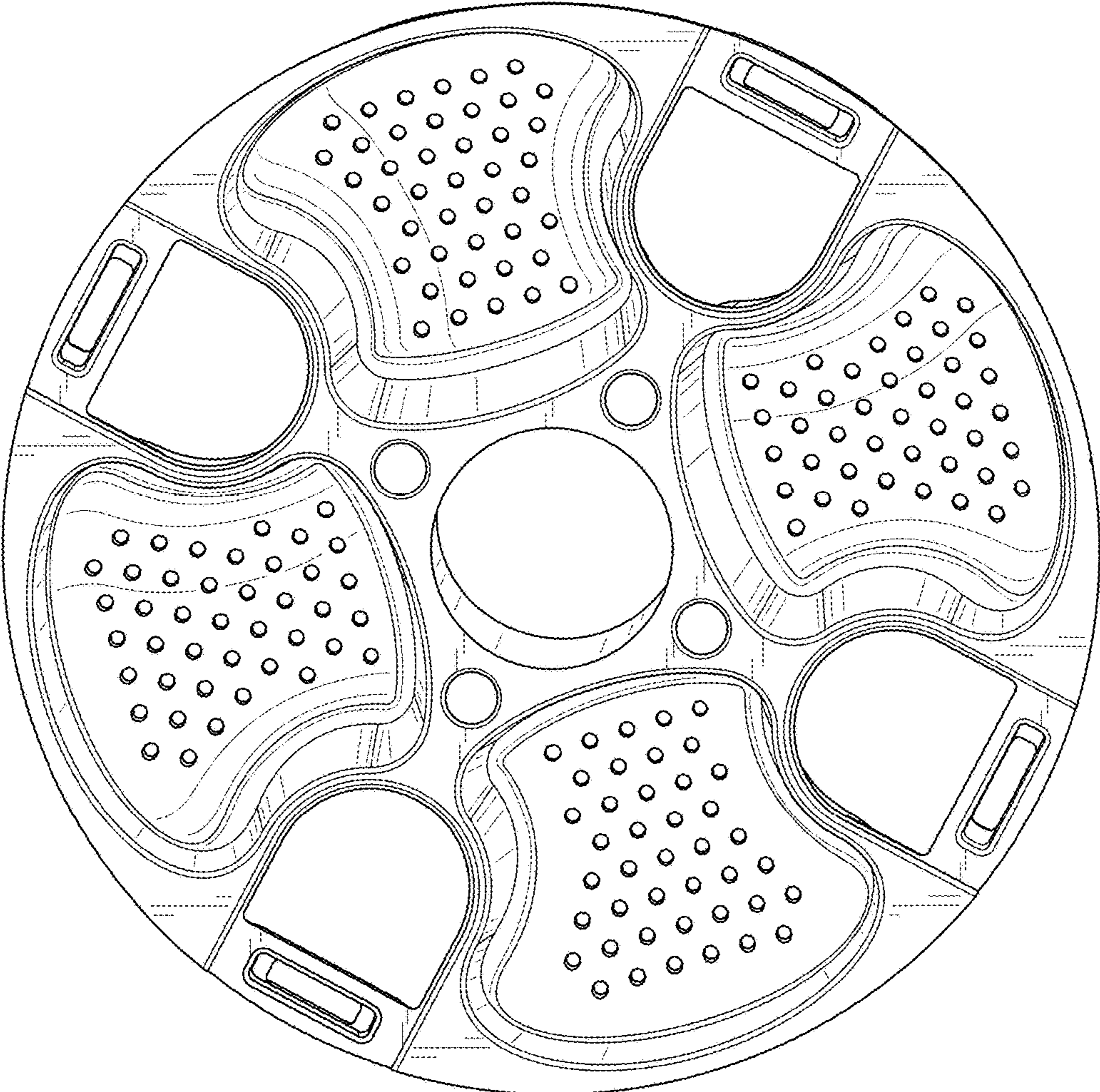


FIG. 24



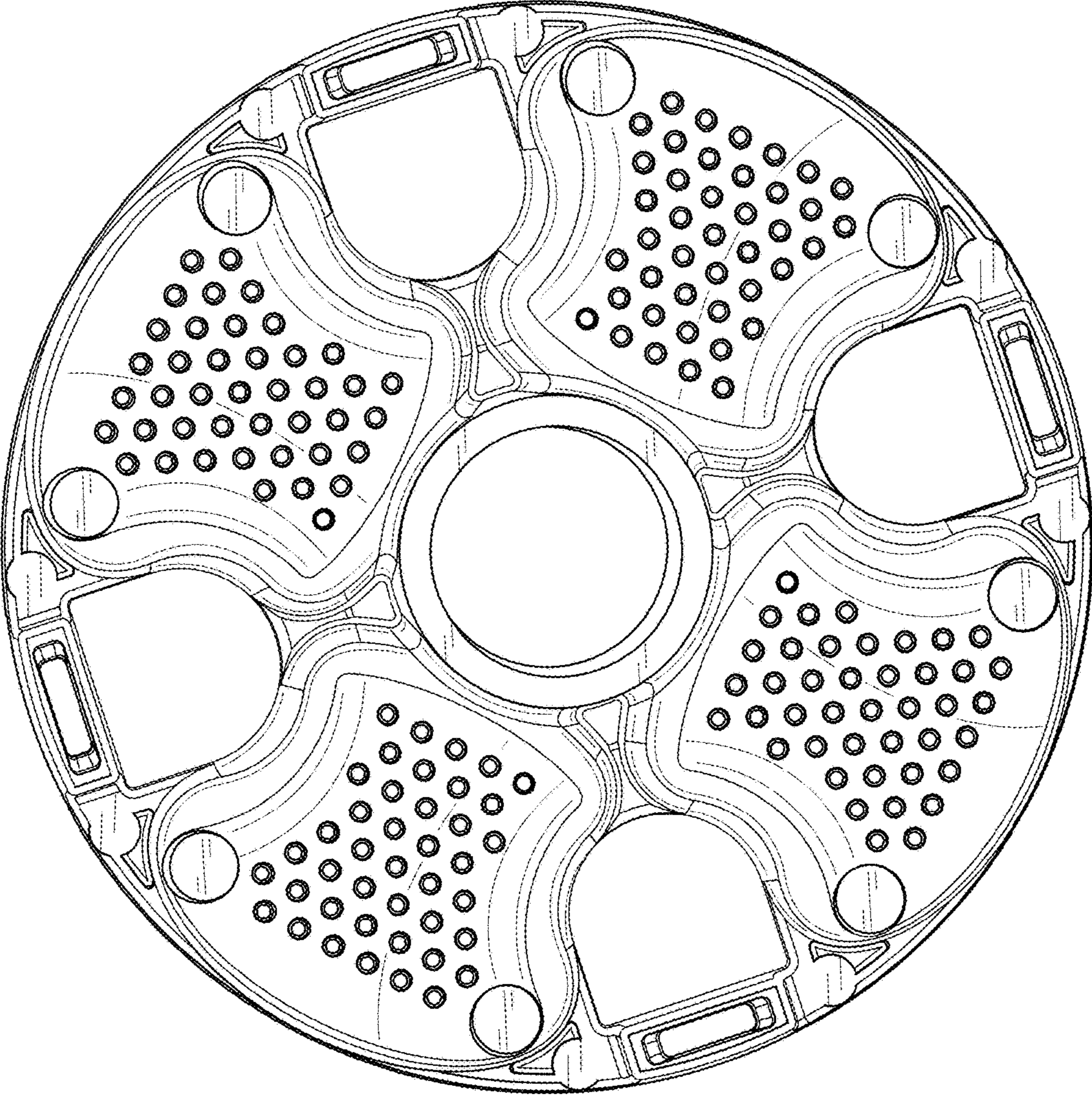


FIG. 25

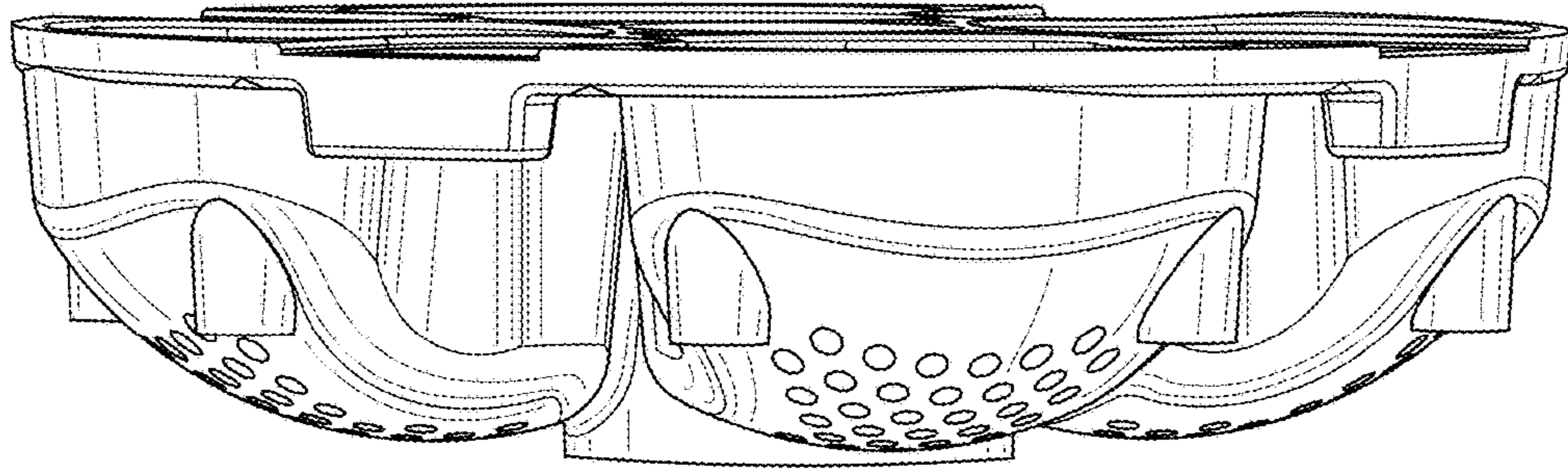


FIG. 26

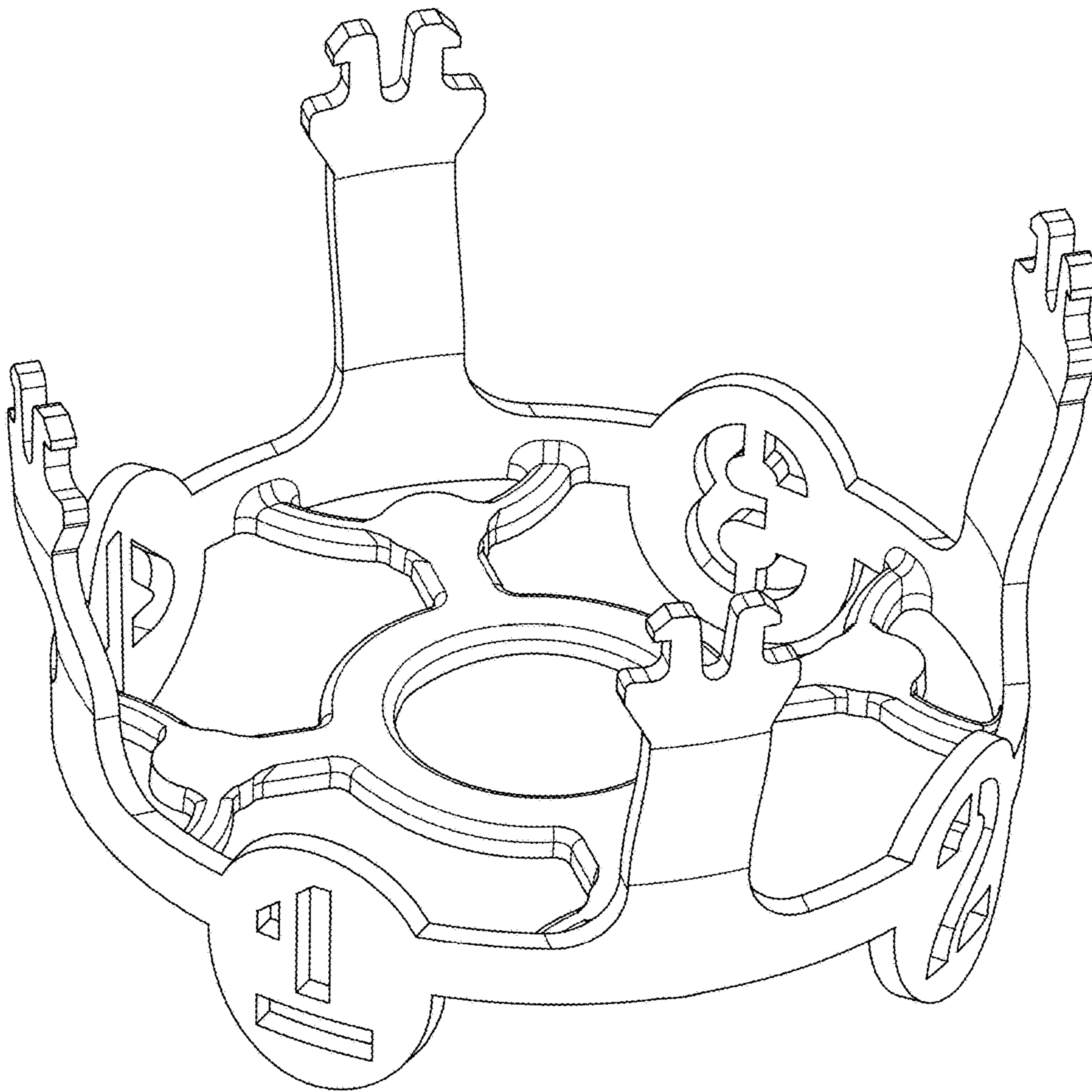


FIG. 27

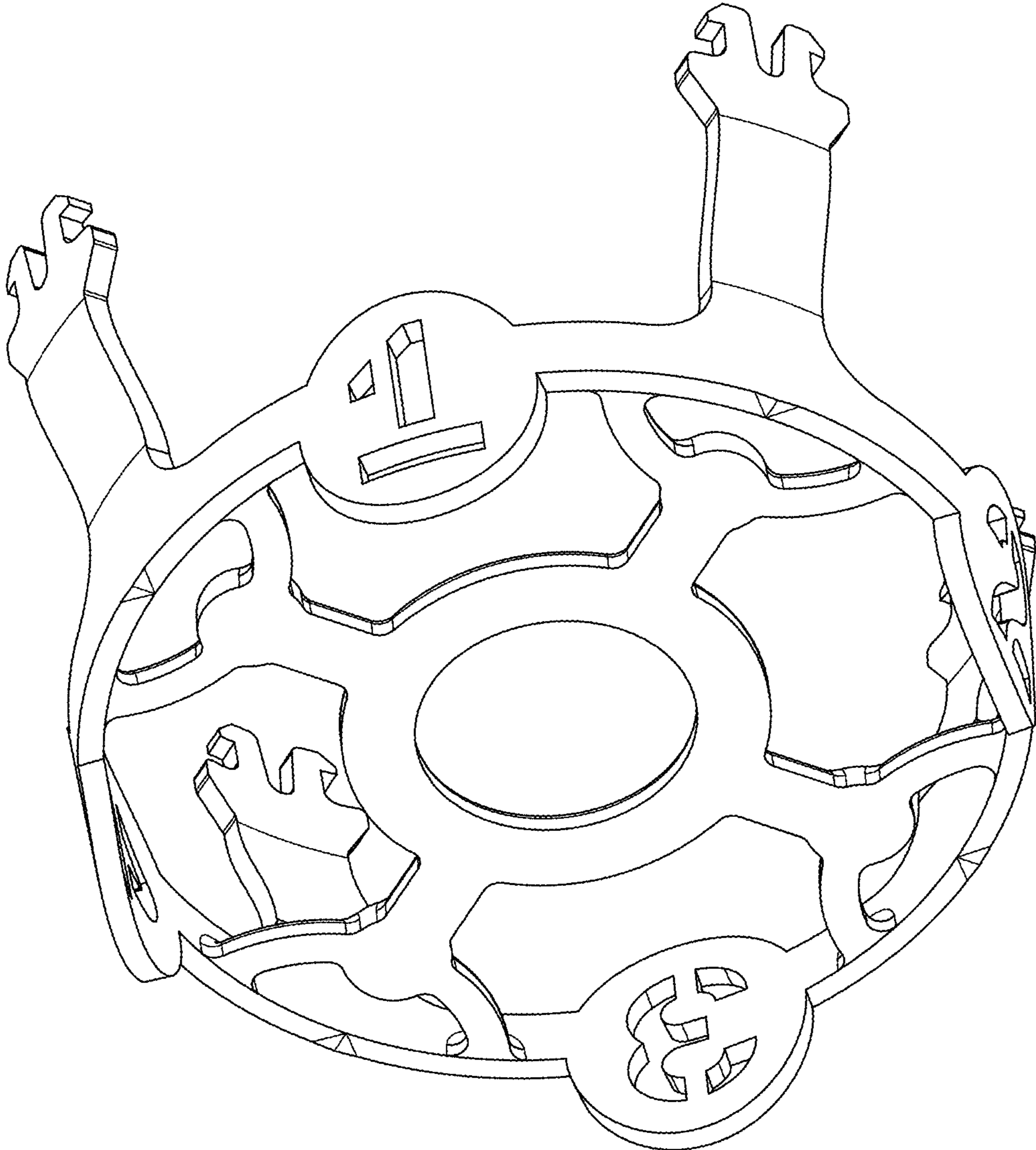


FIG. 28



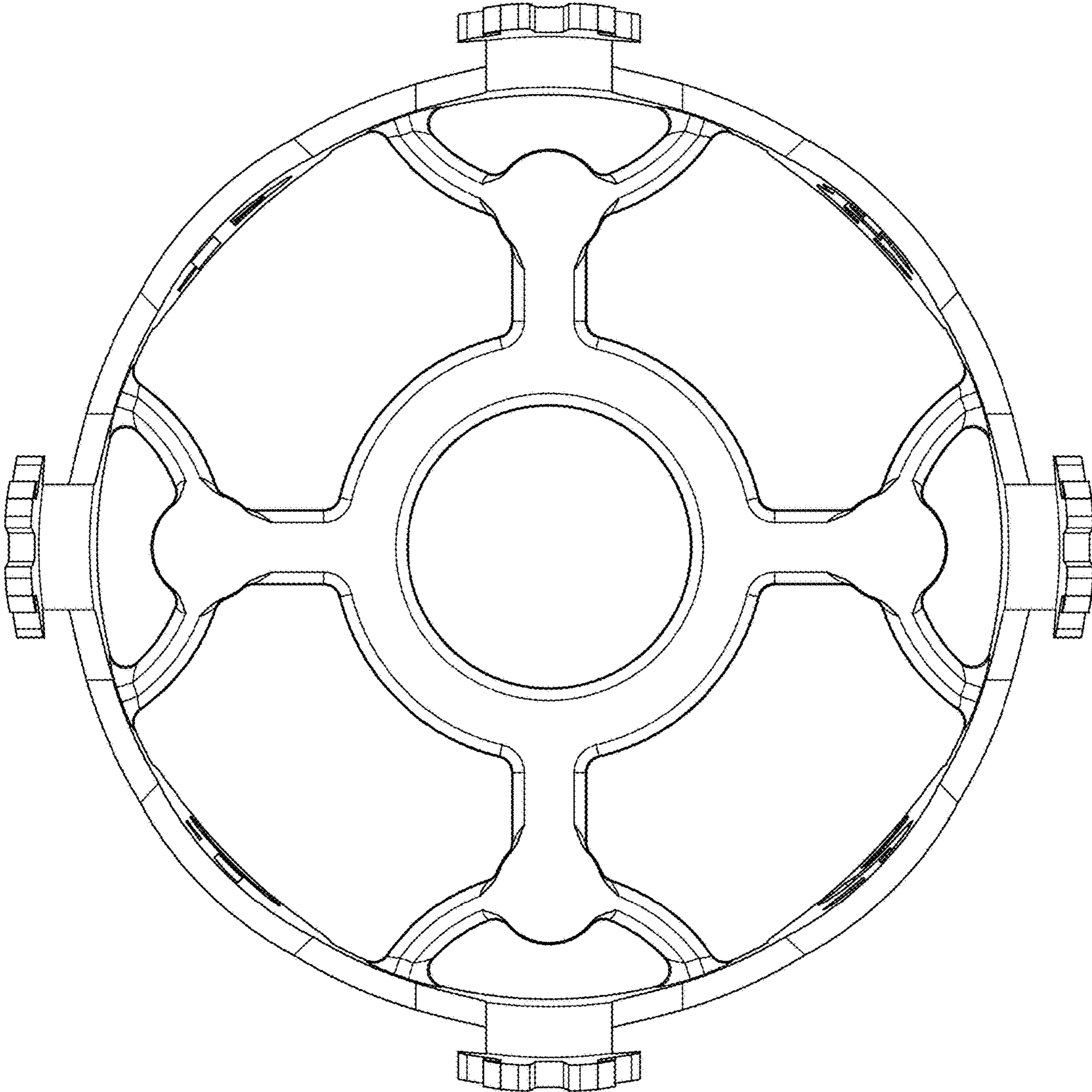


FIG. 29

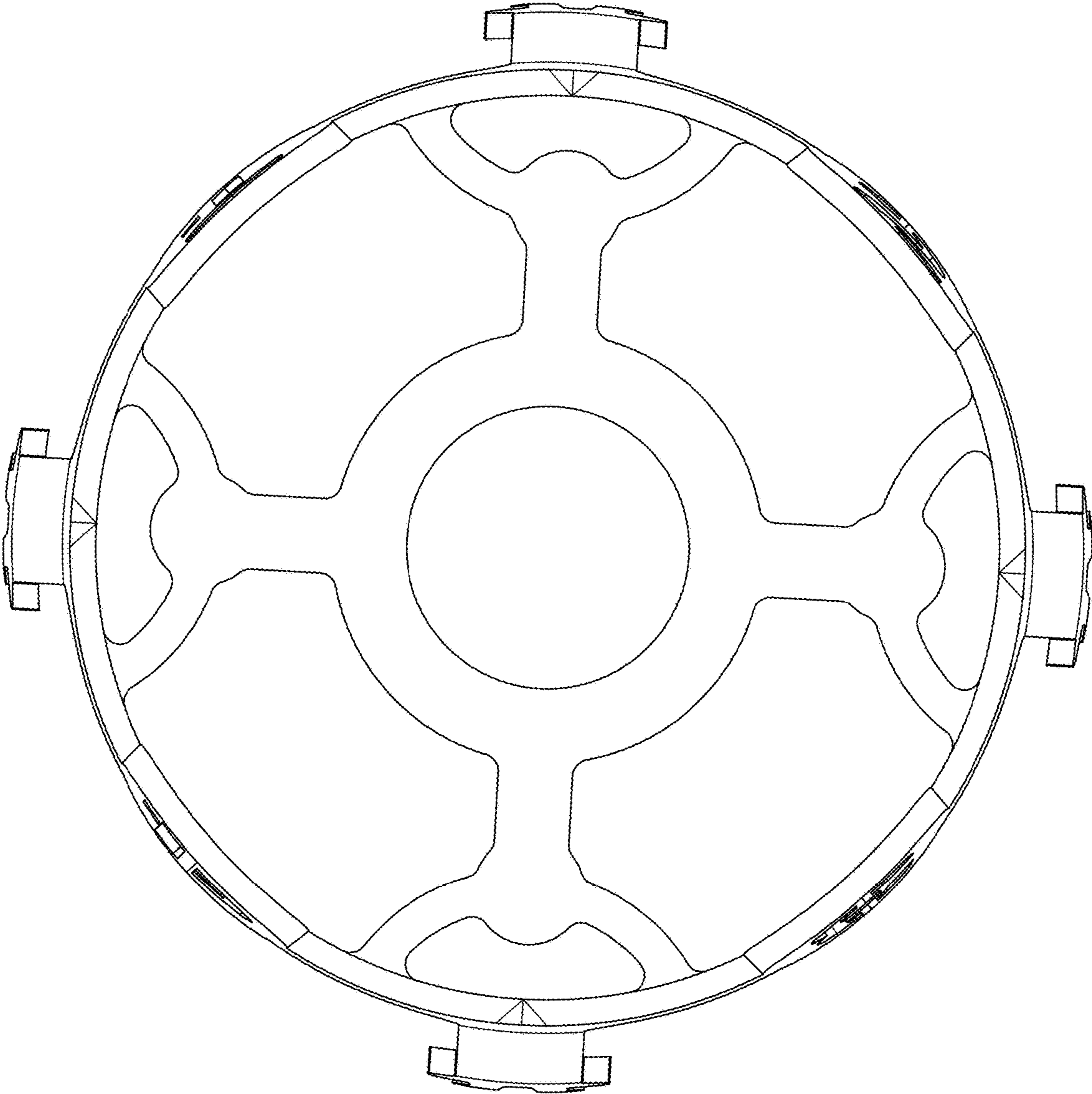


FIG. 30

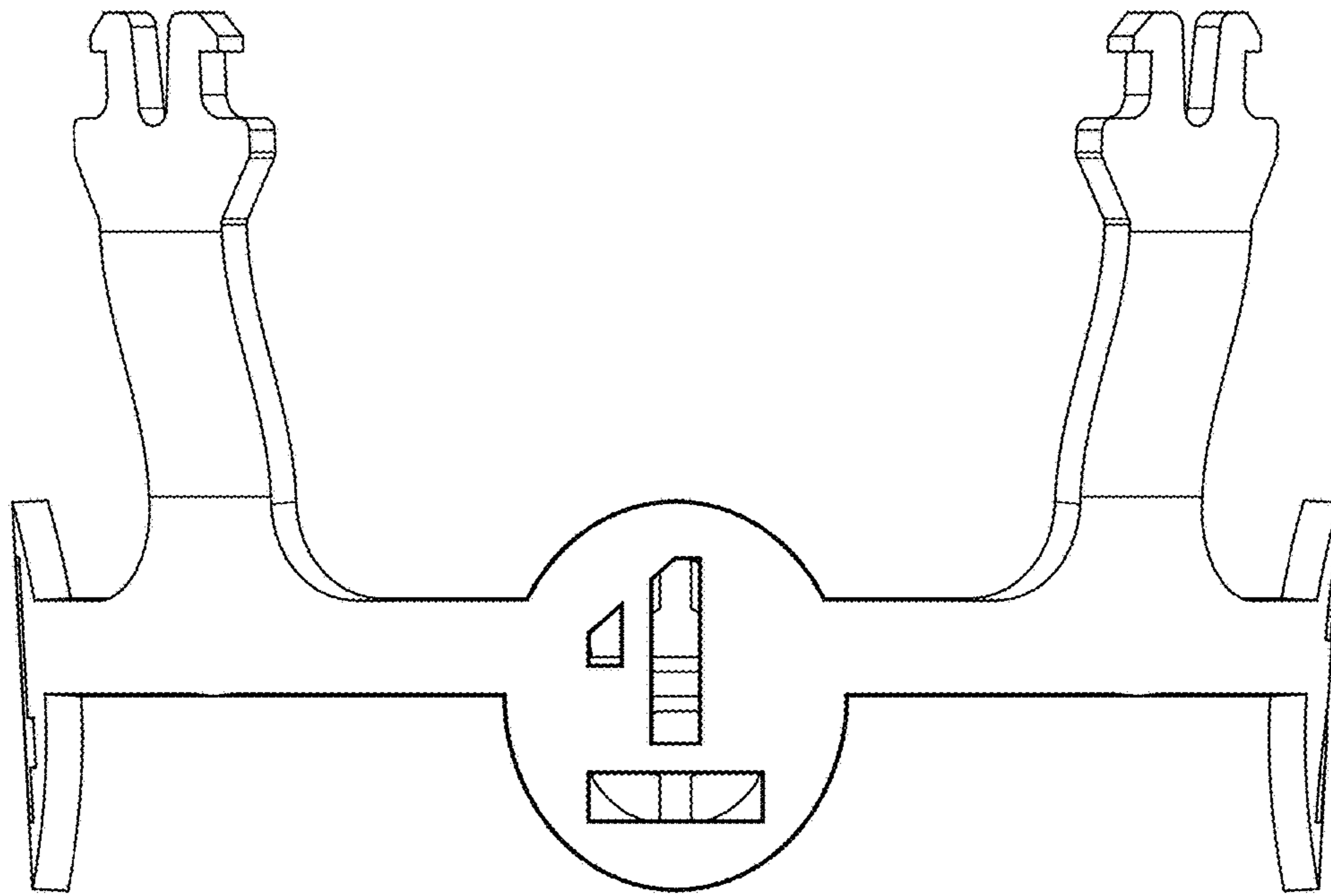


FIG. 31

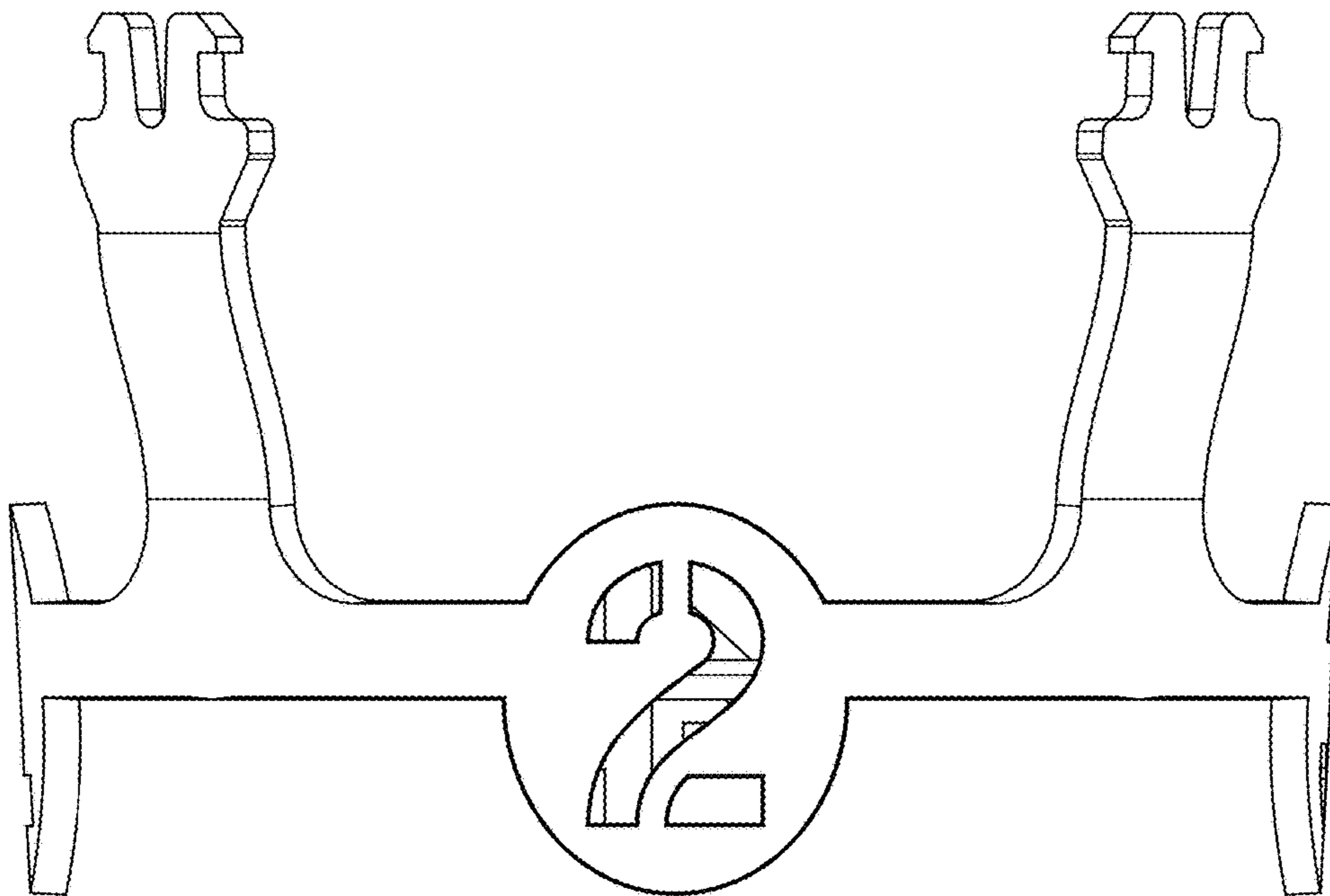


FIG. 32



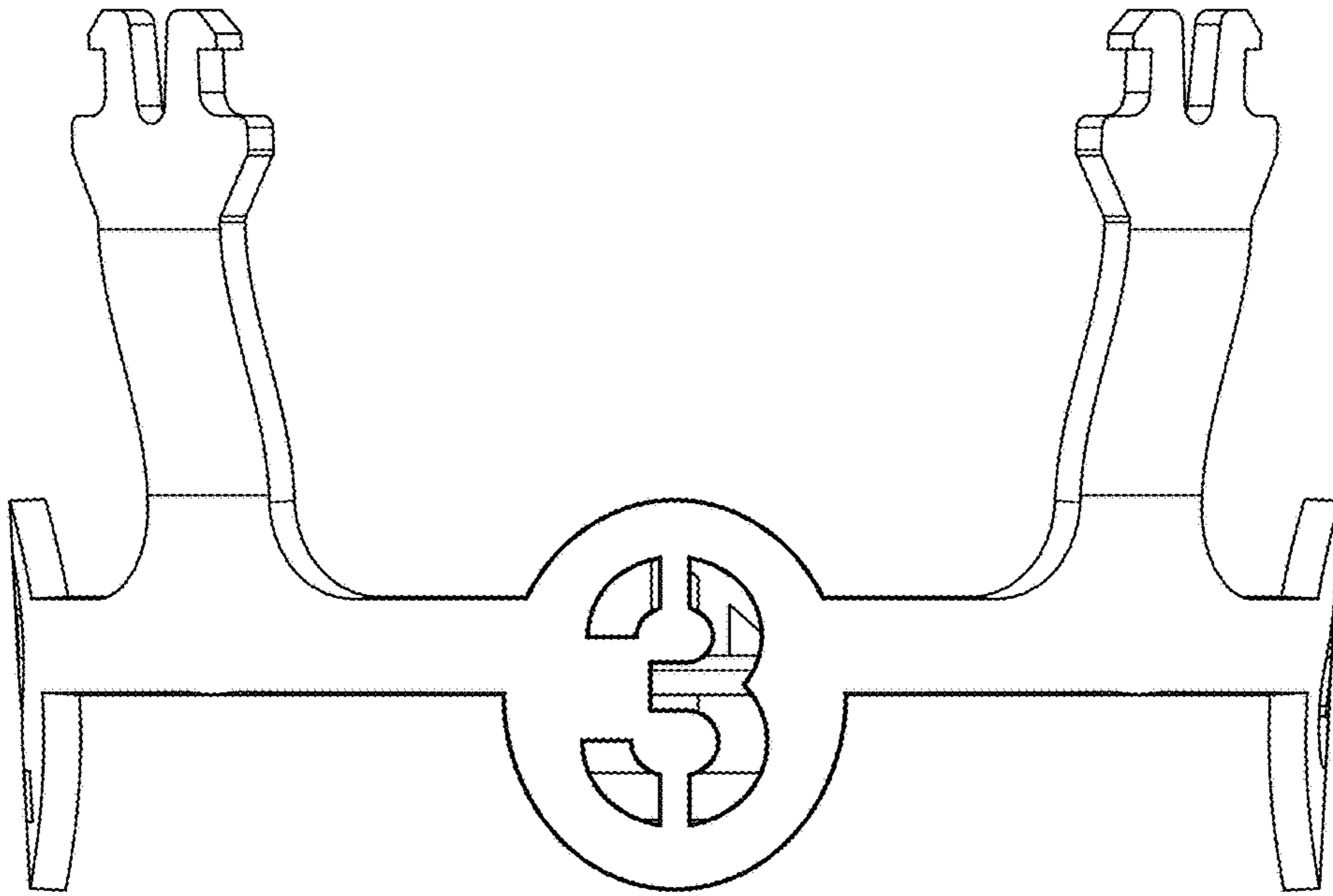


FIG. 33

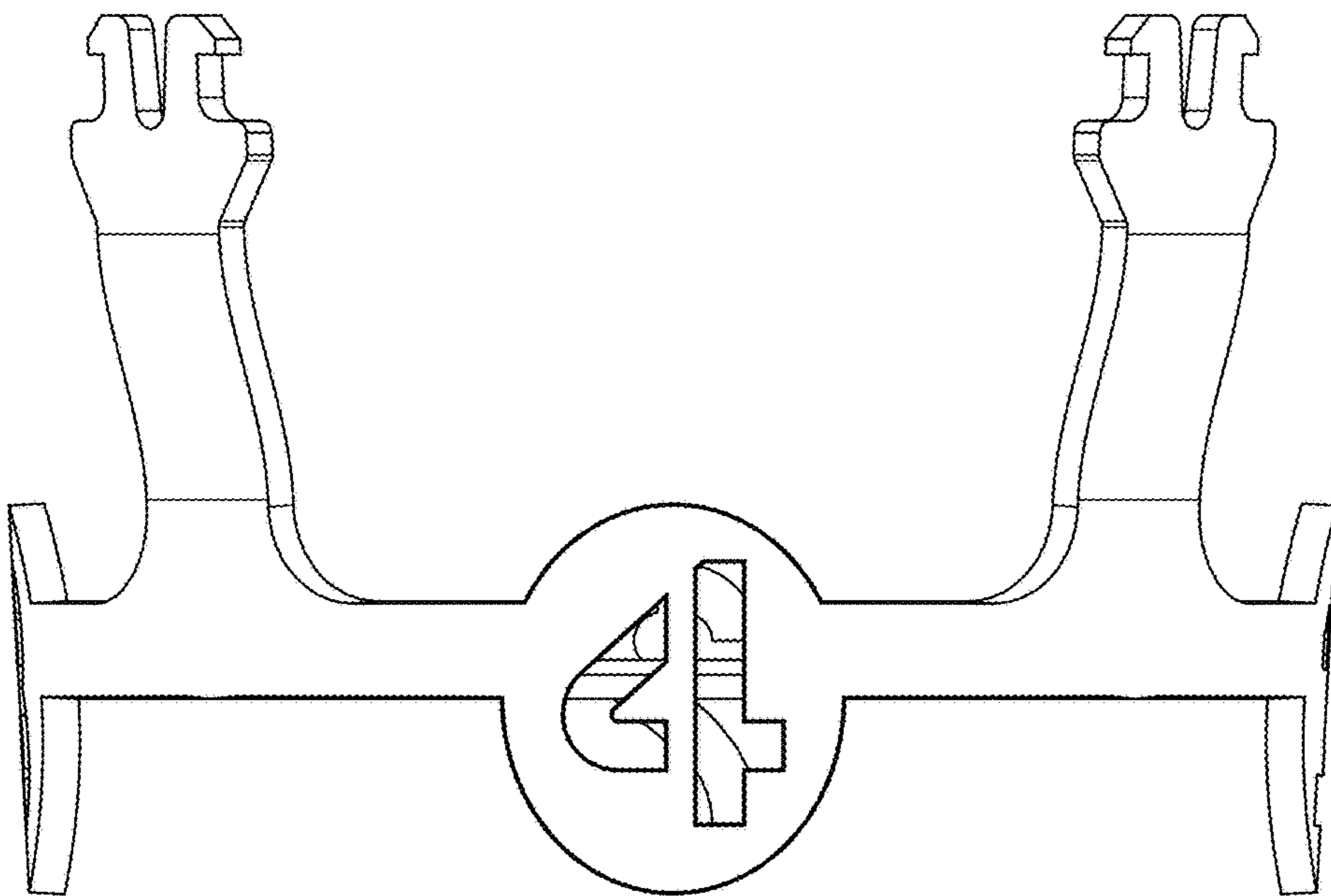


FIG. 34

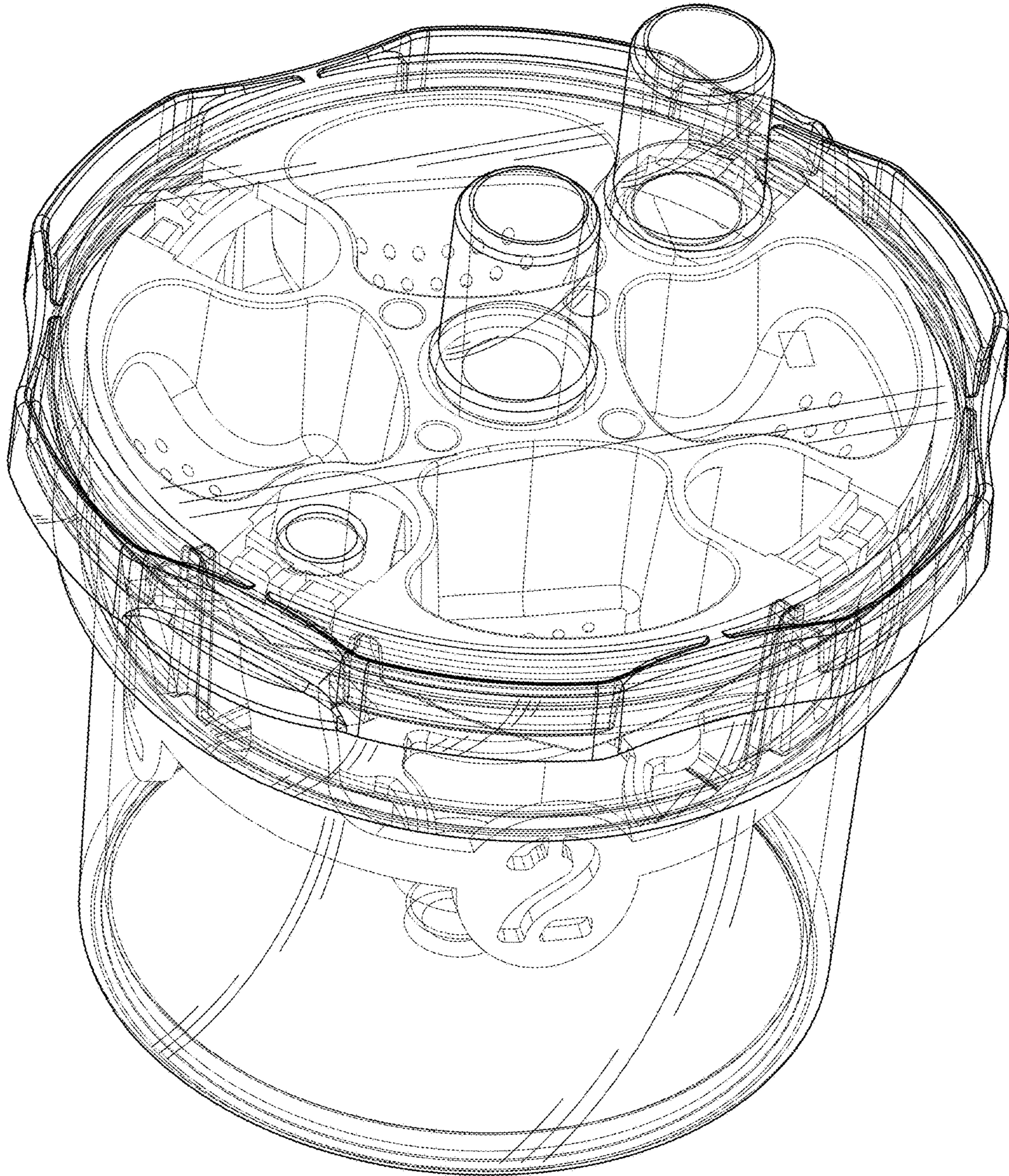


FIG. 35



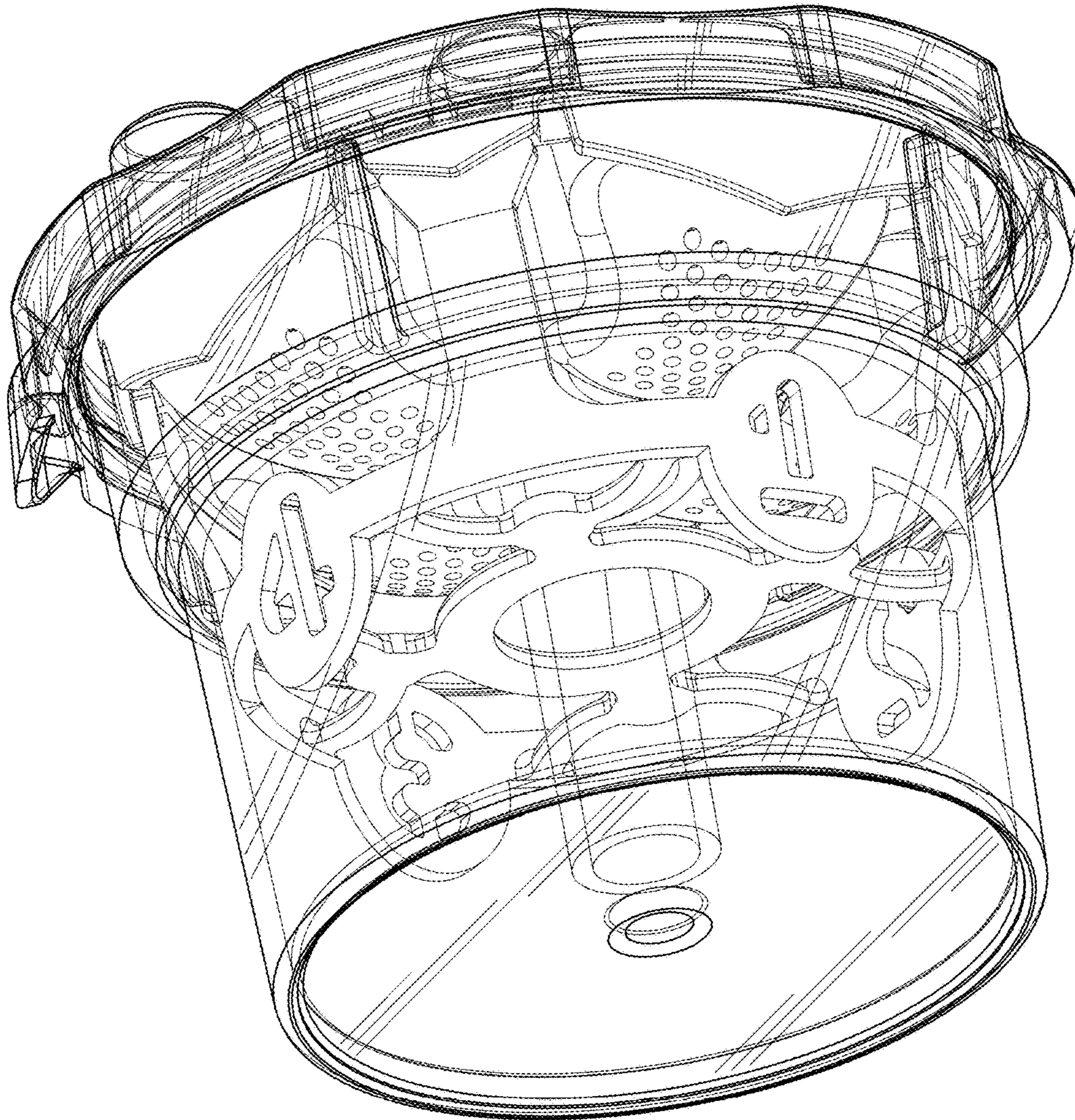


FIG. 36



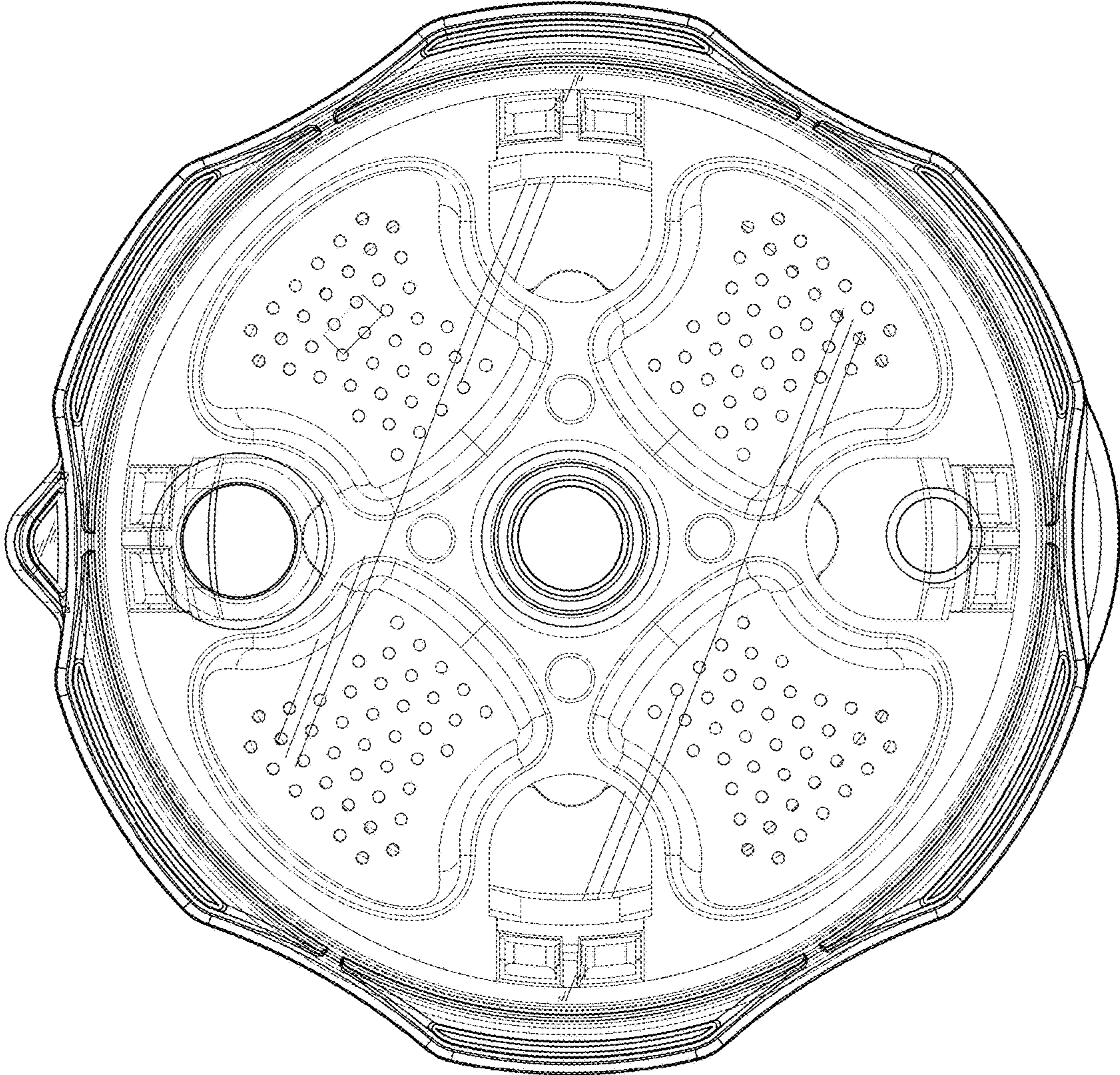


FIG. 37



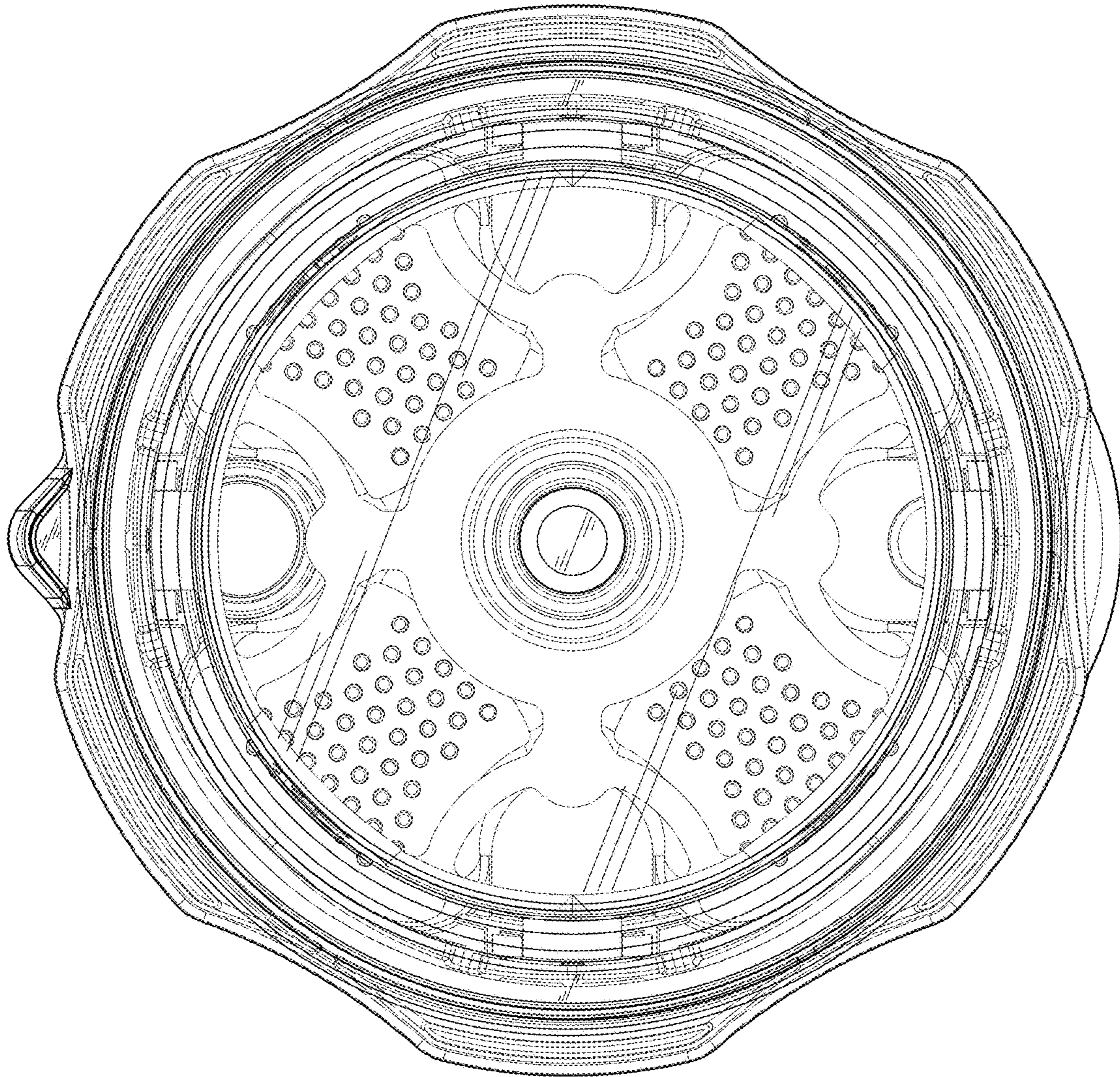


FIG. 38



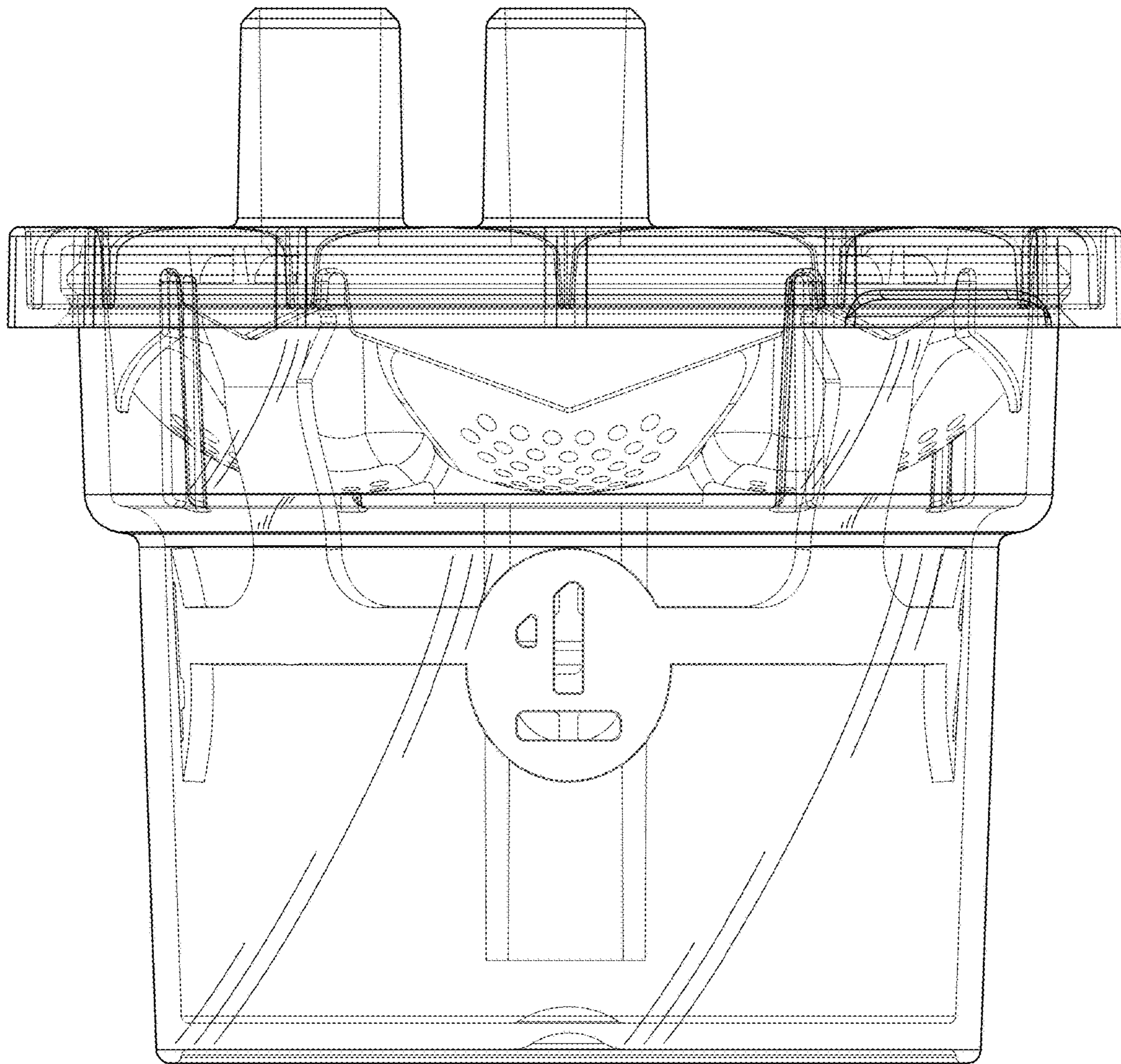


FIG. 39



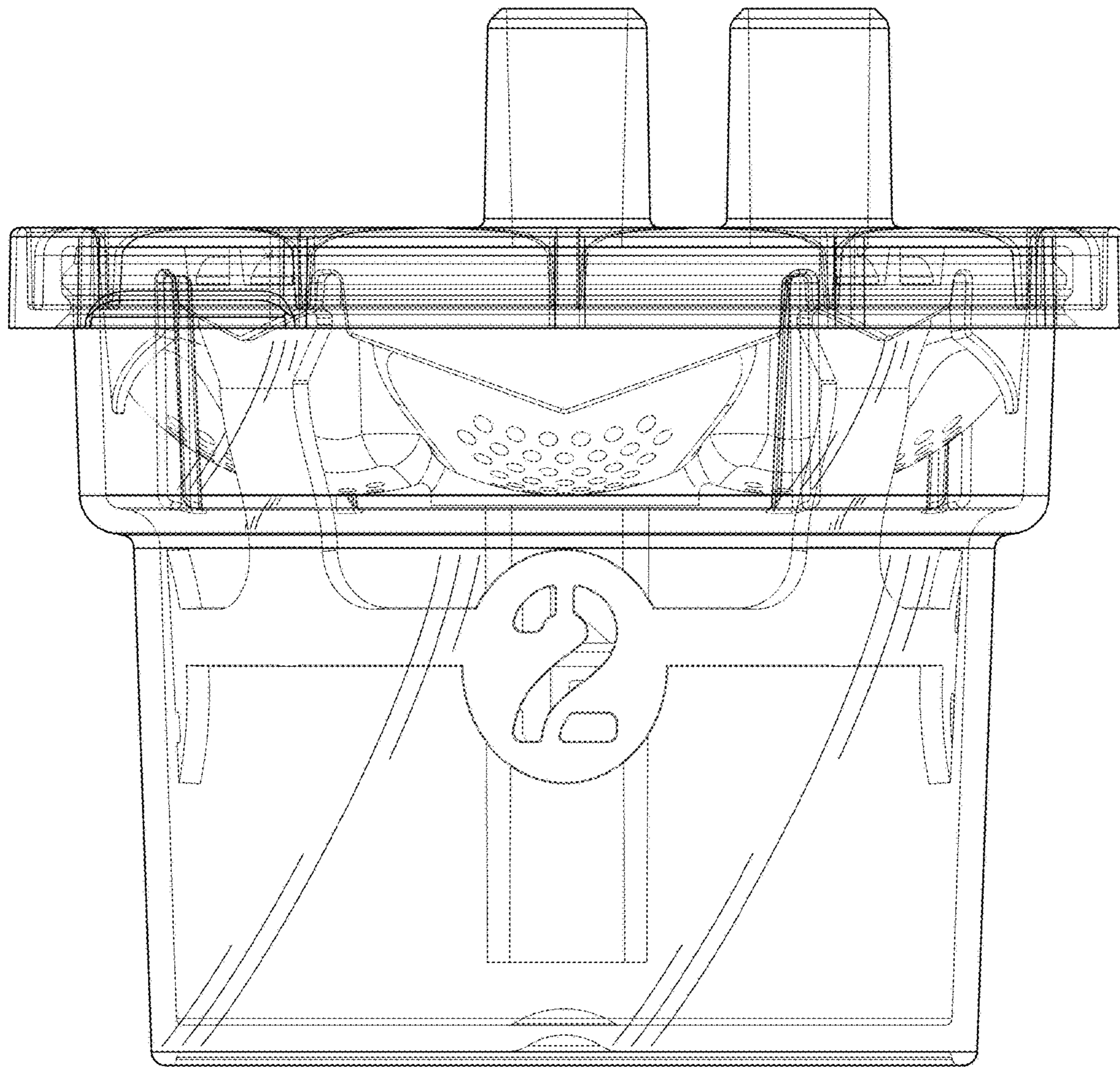


FIG. 40

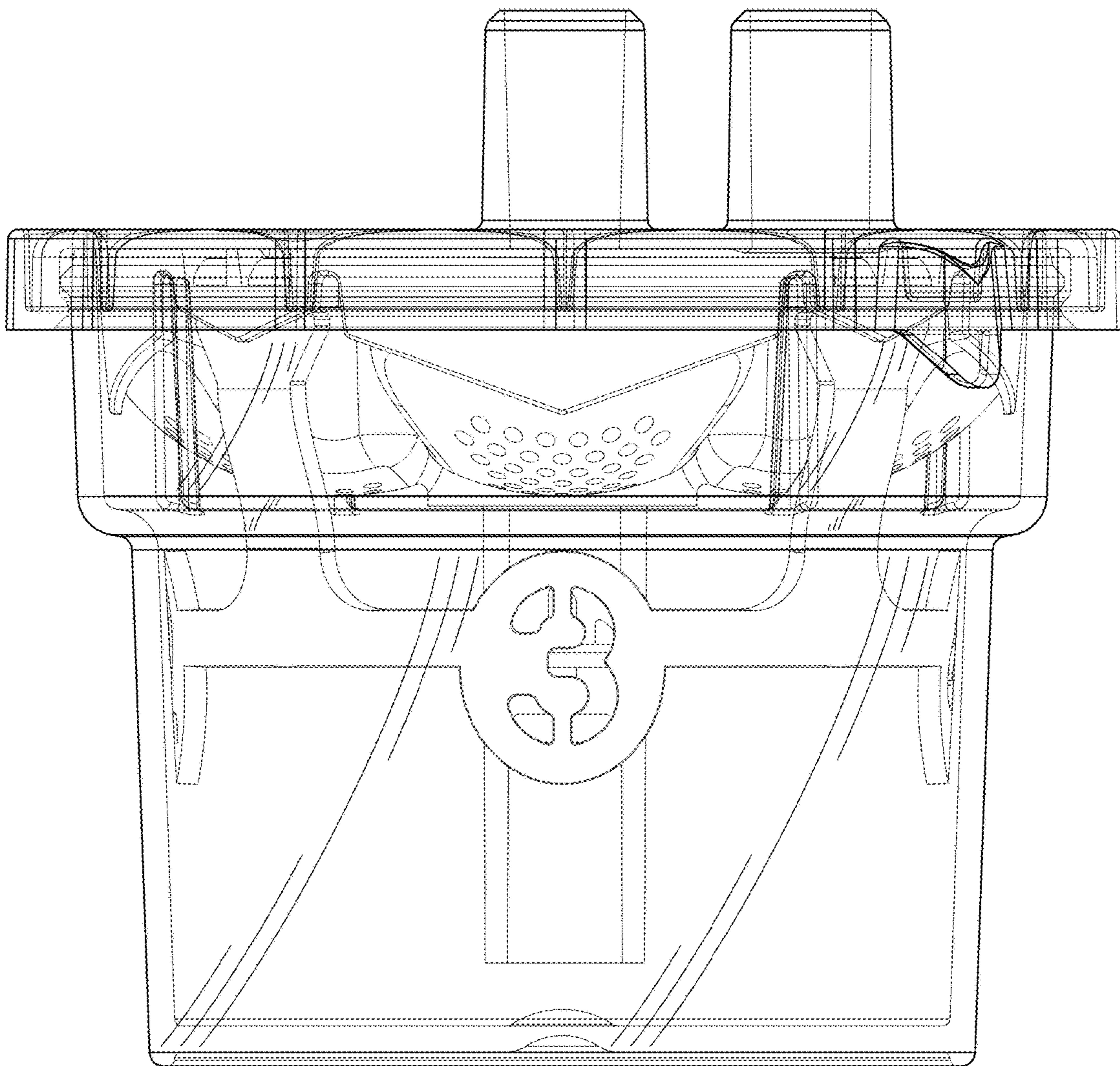


FIG. 41

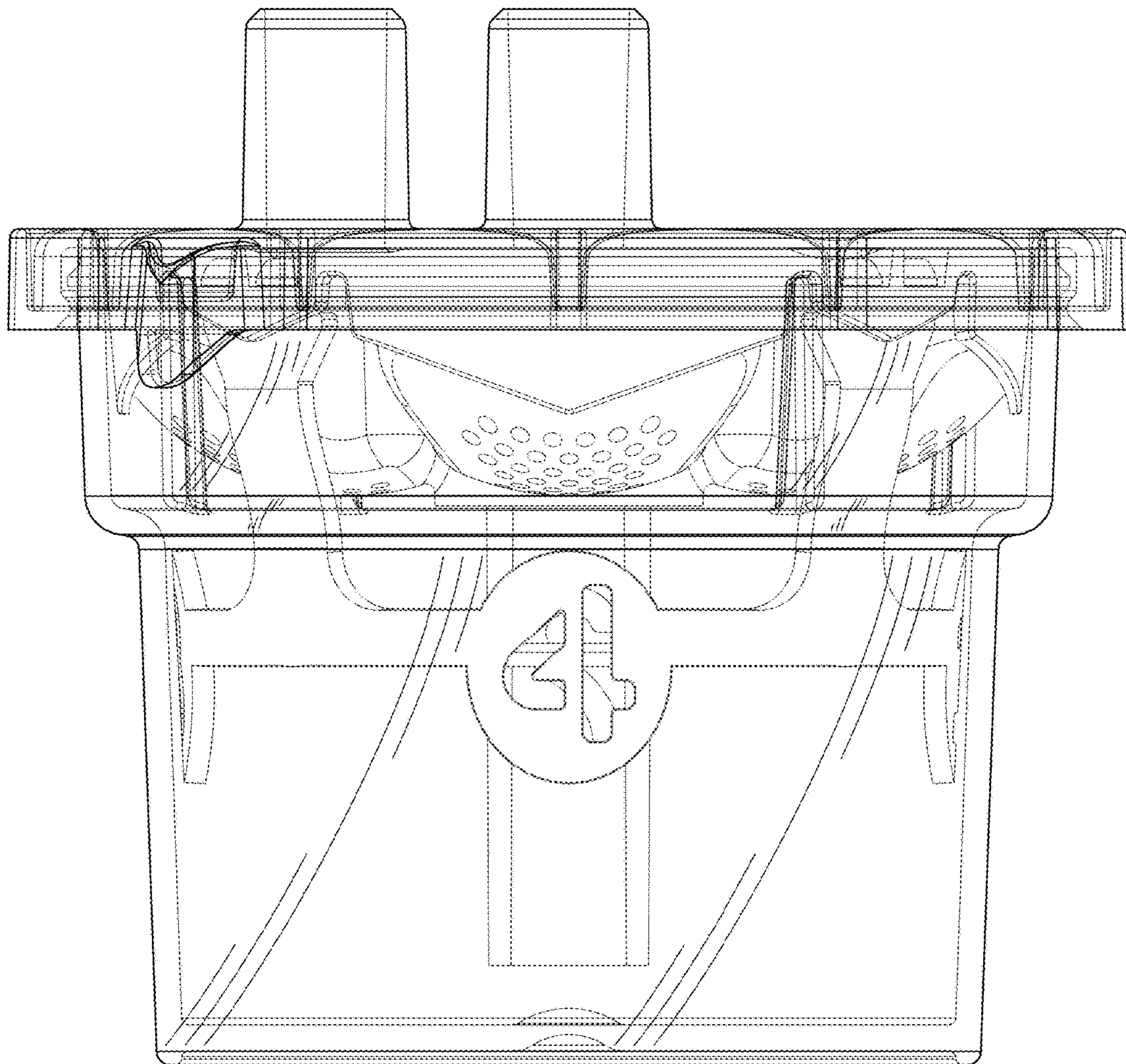


FIG. 42



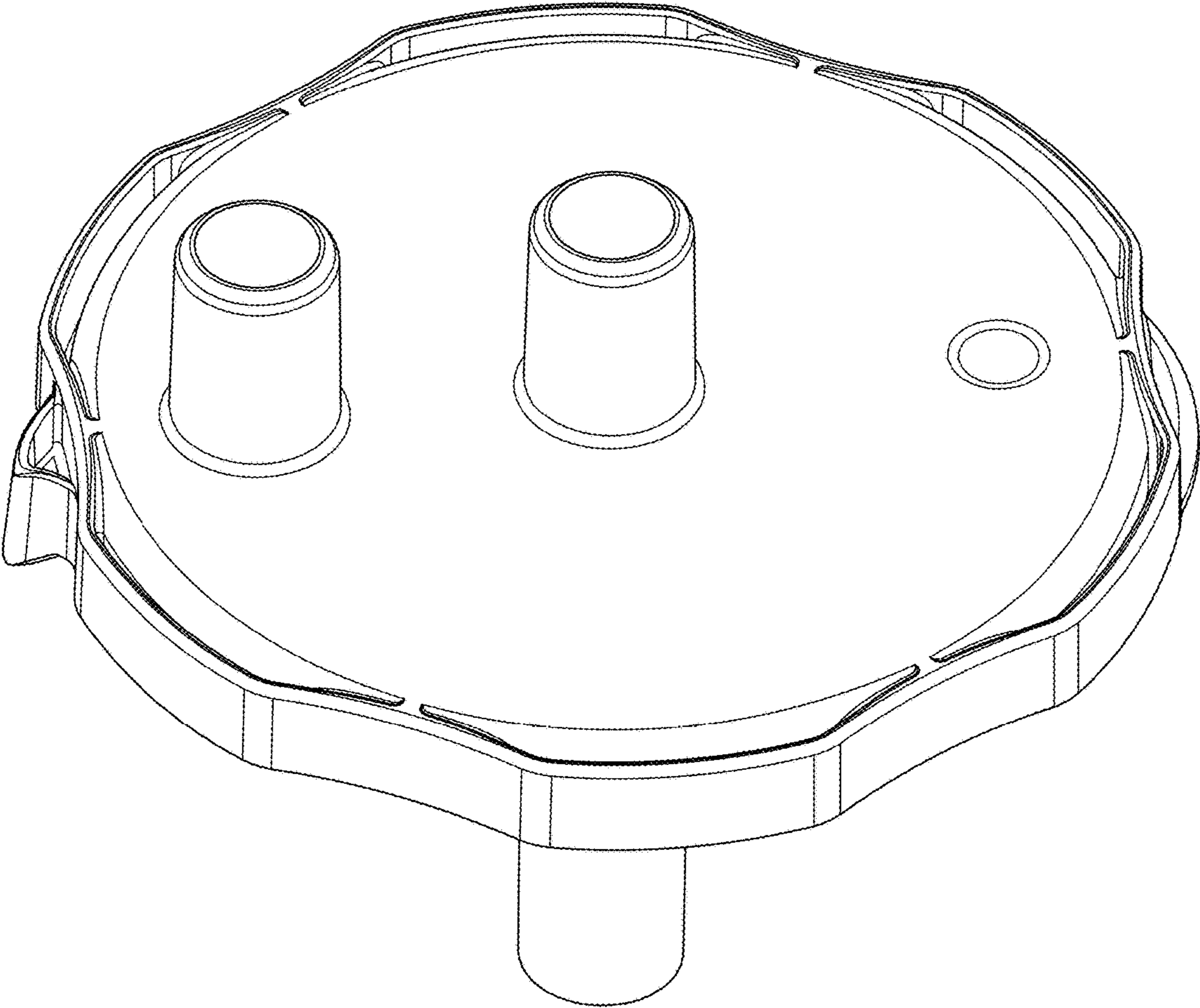


FIG. 43

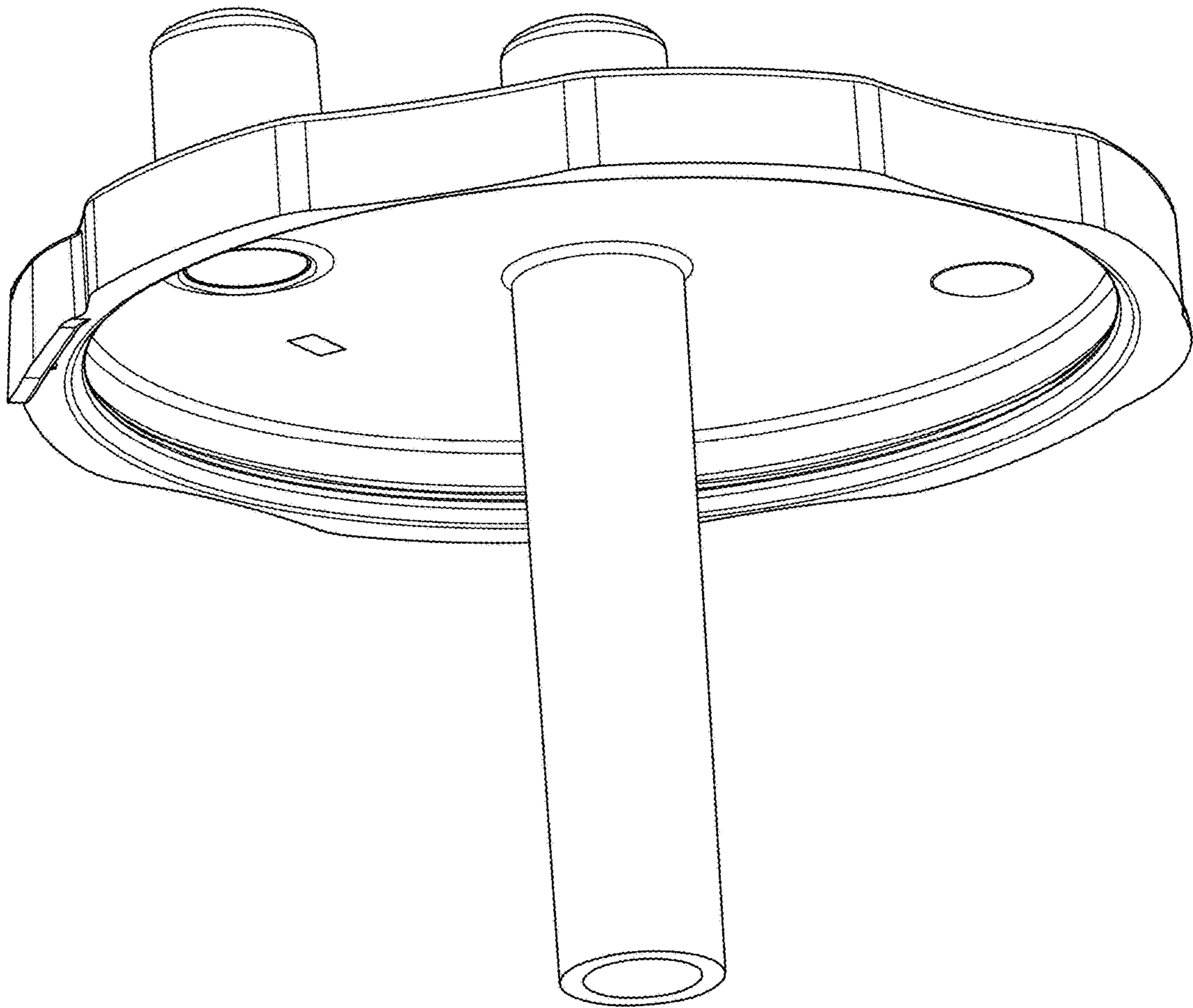


FIG. 44

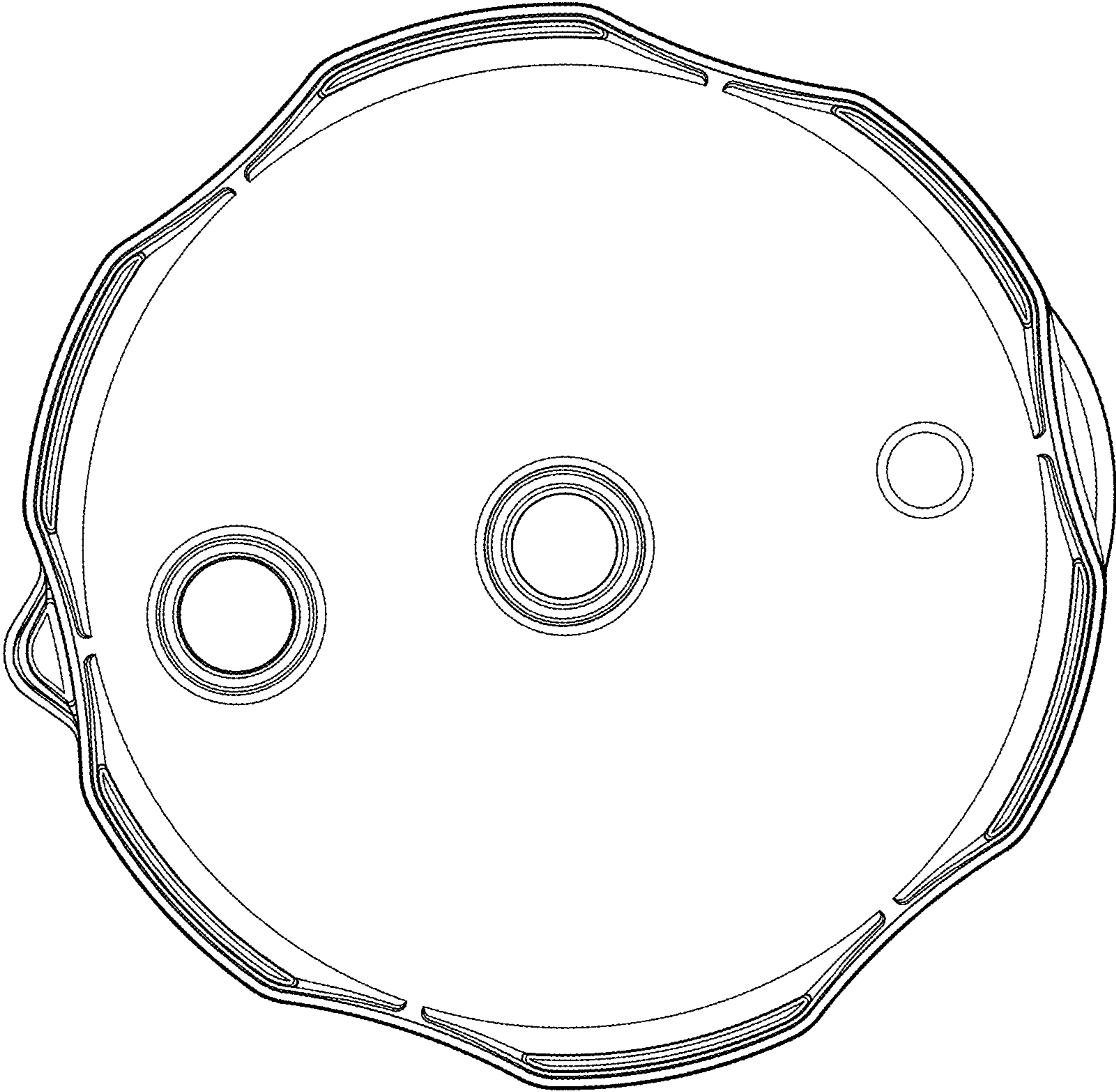


FIG. 45



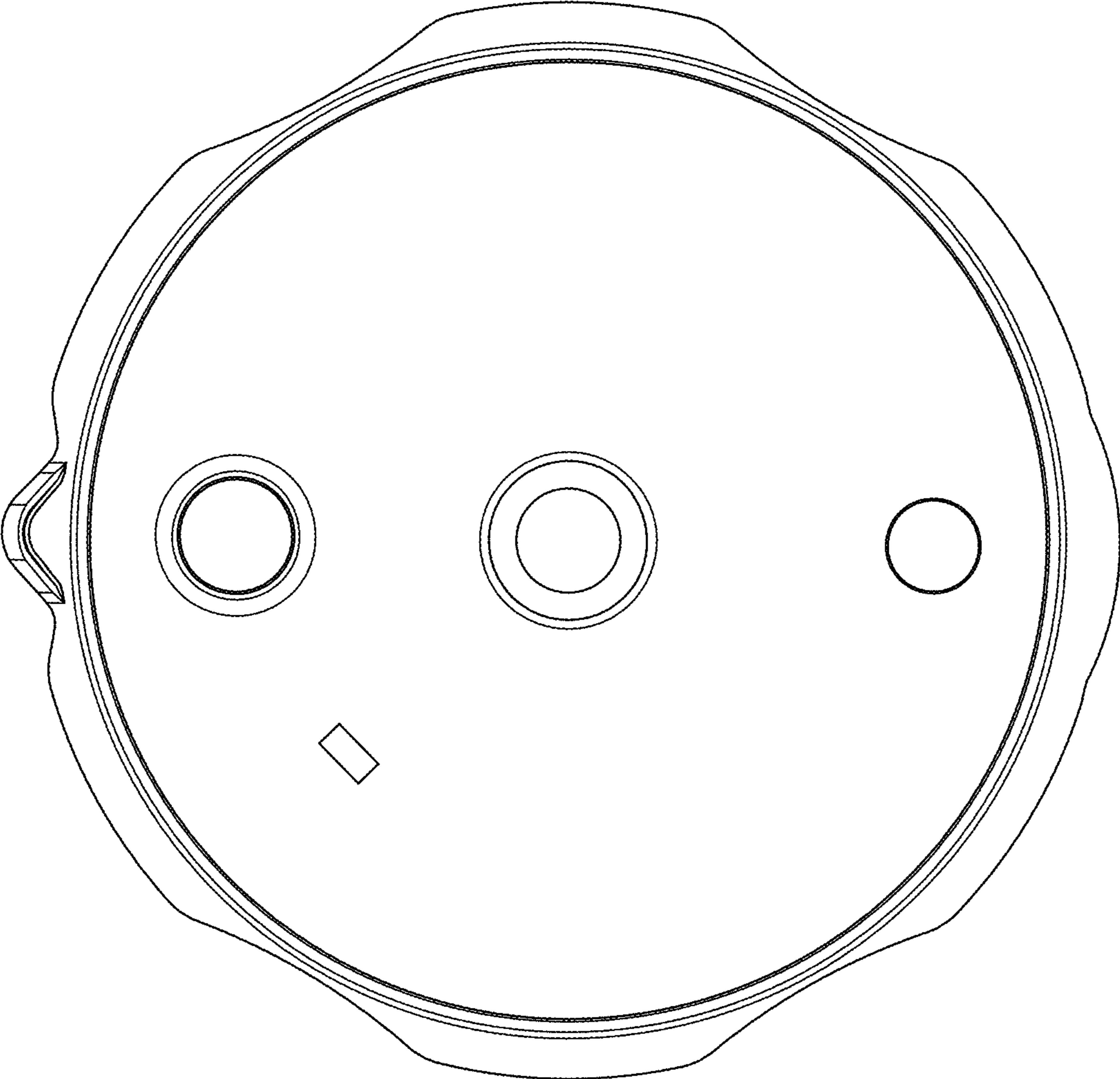


FIG. 46

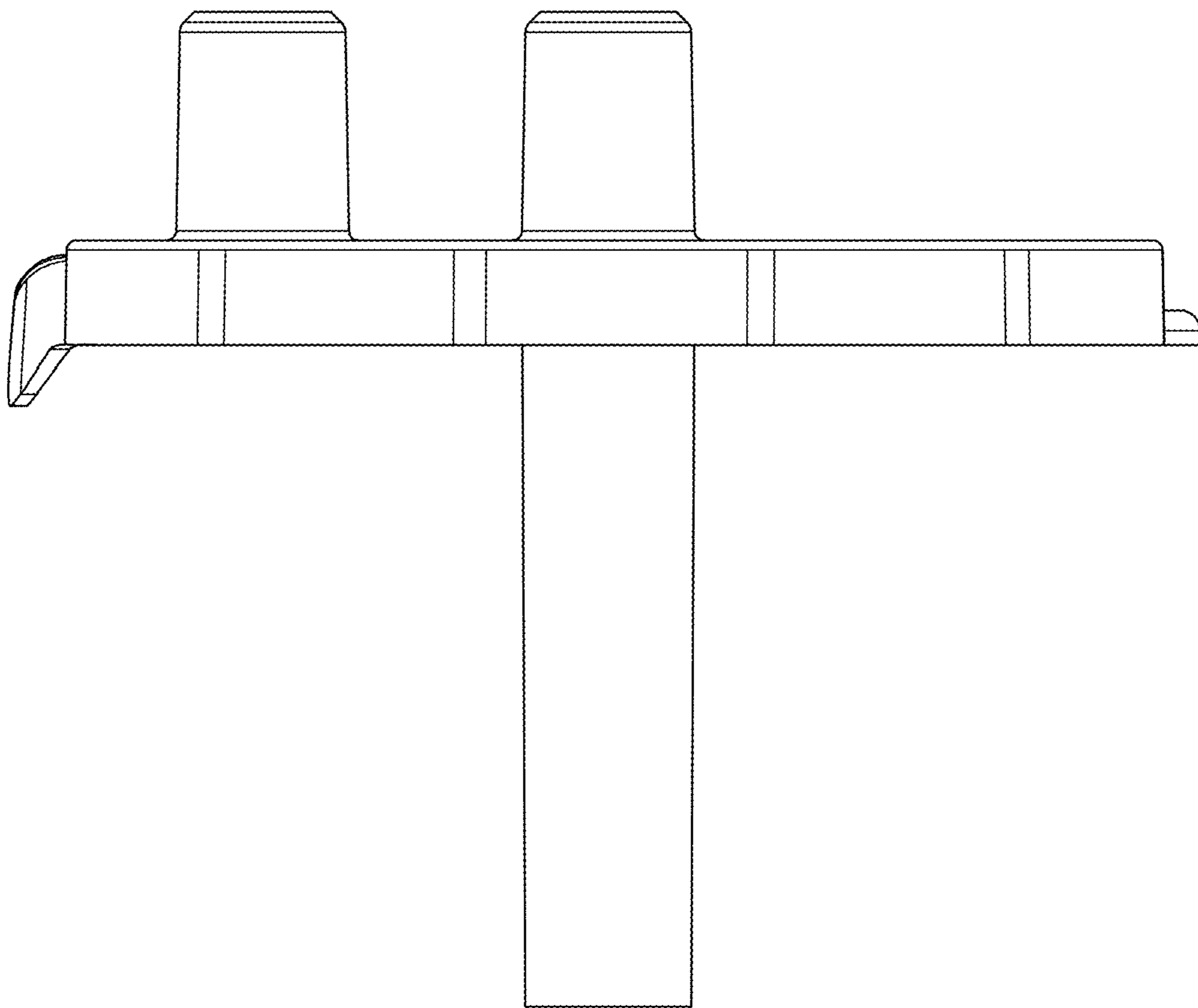


FIG. 47

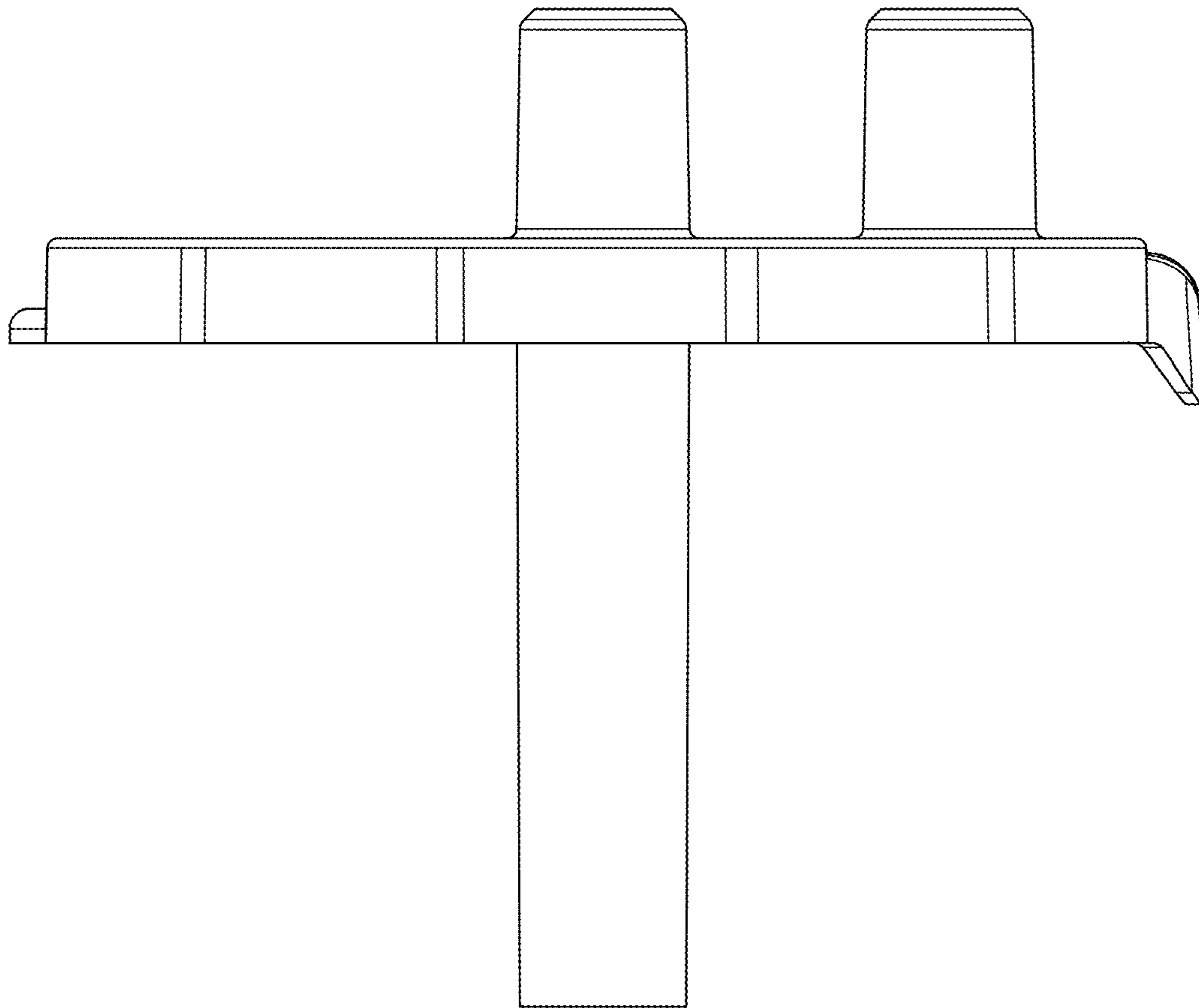


FIG. 48



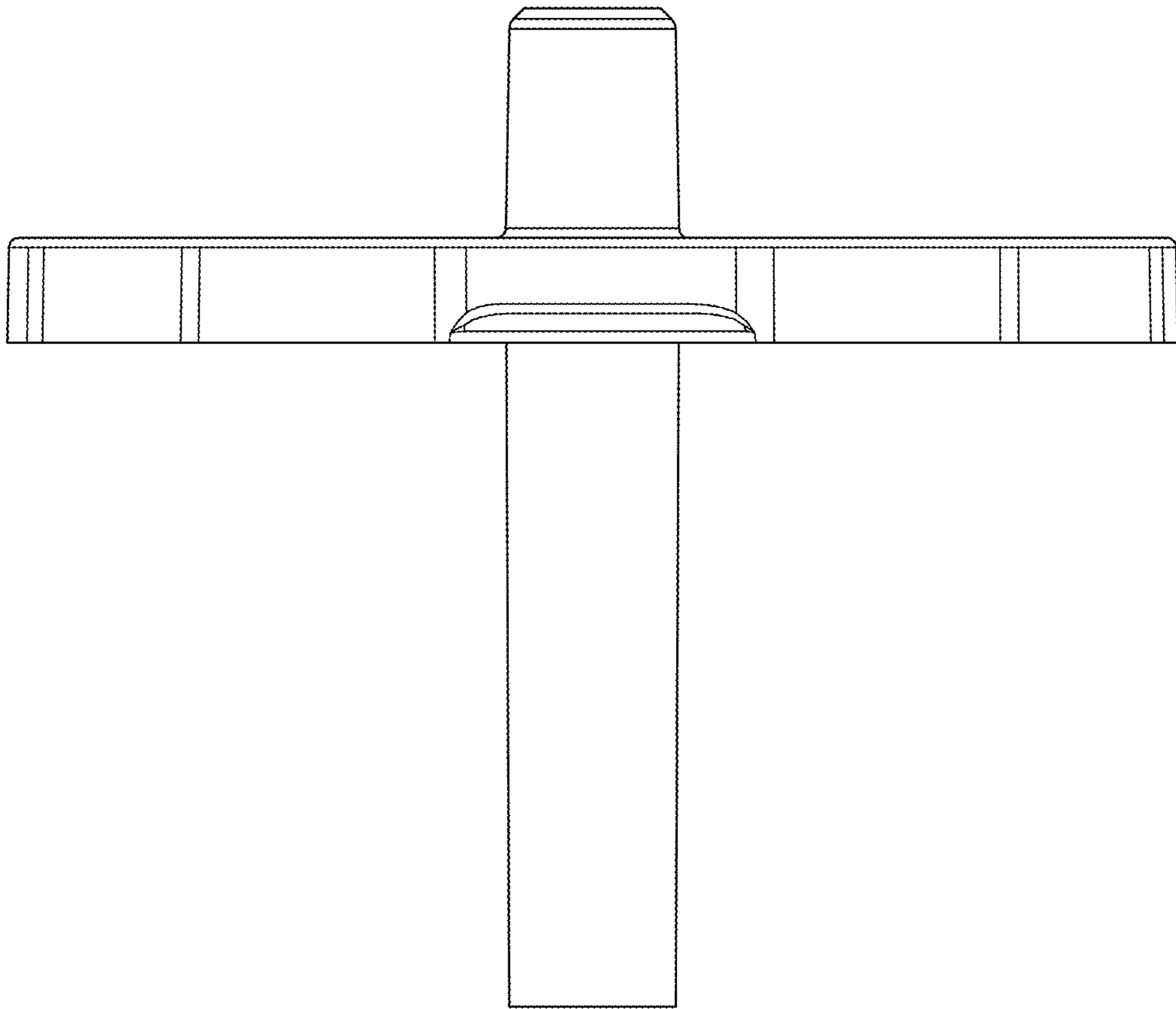


FIG. 49

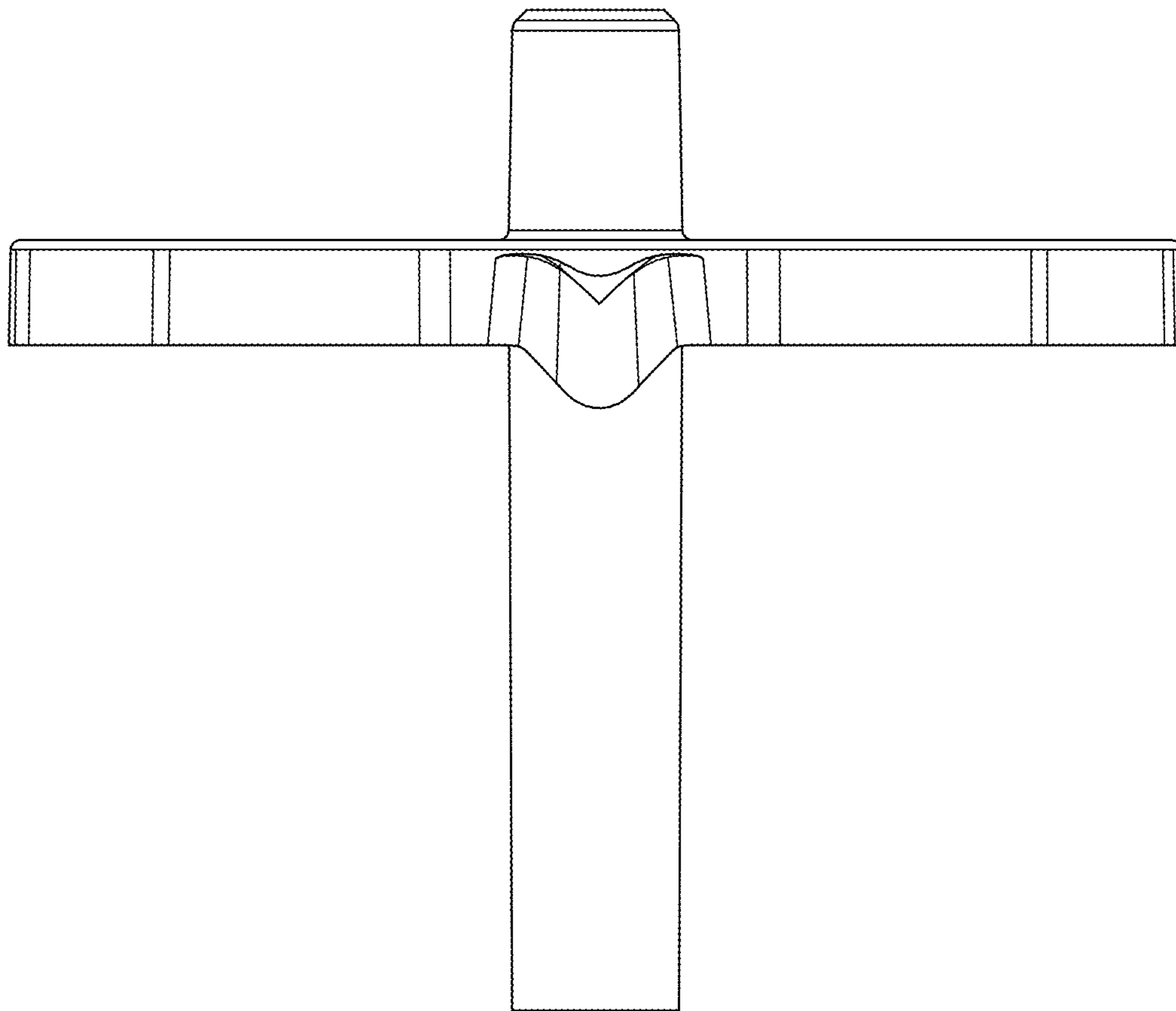


FIG. 50

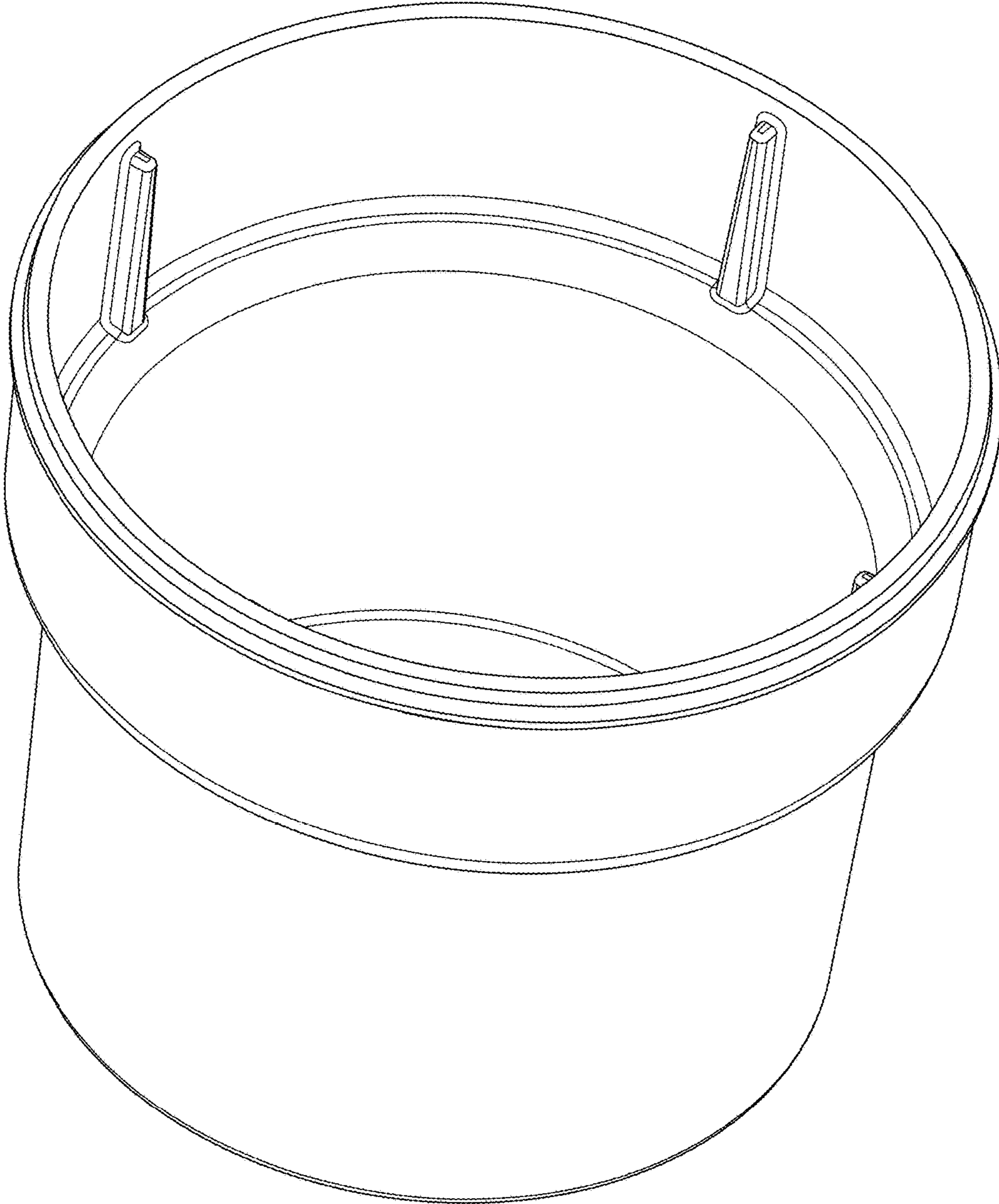


FIG. 51



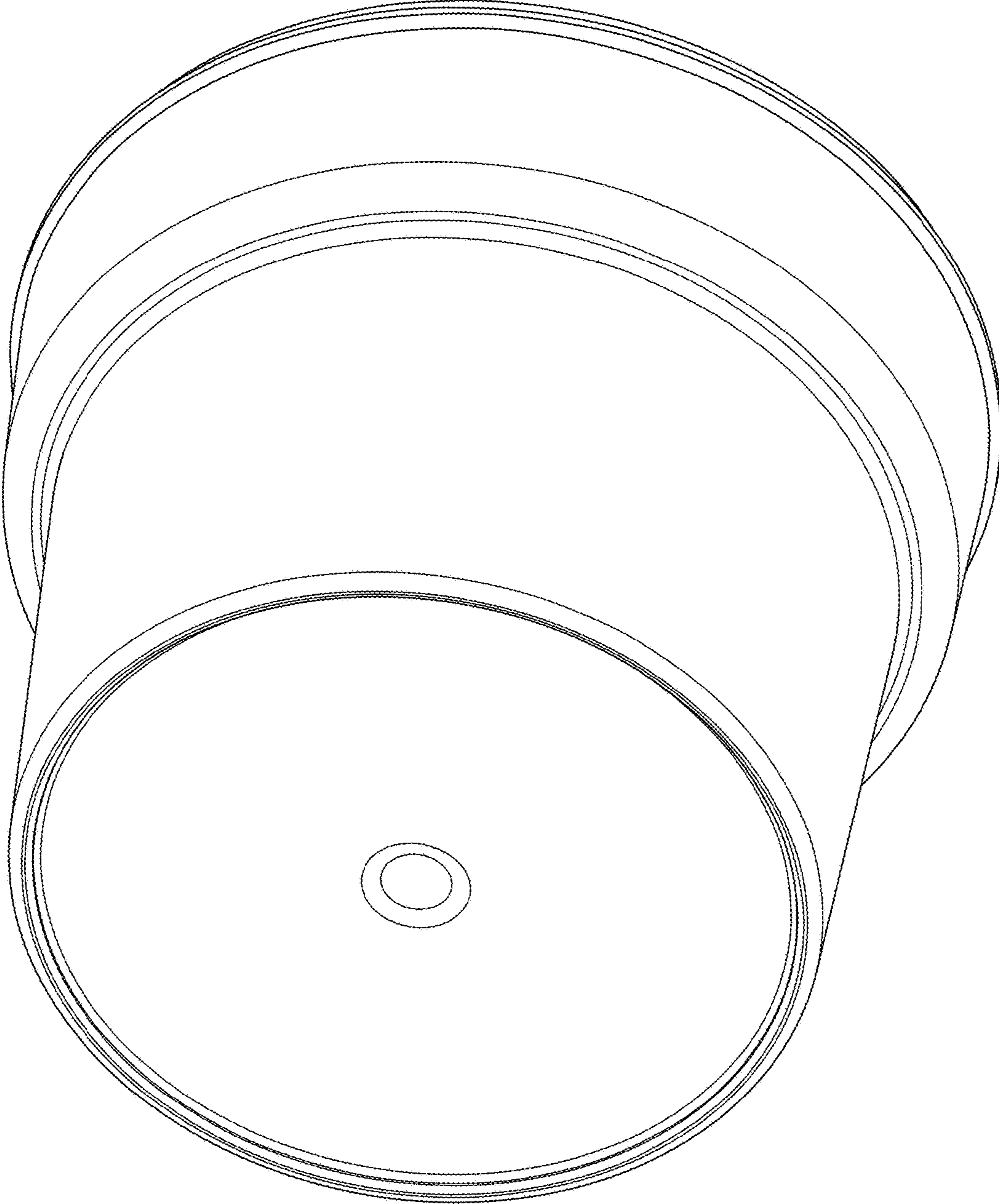


FIG. 52

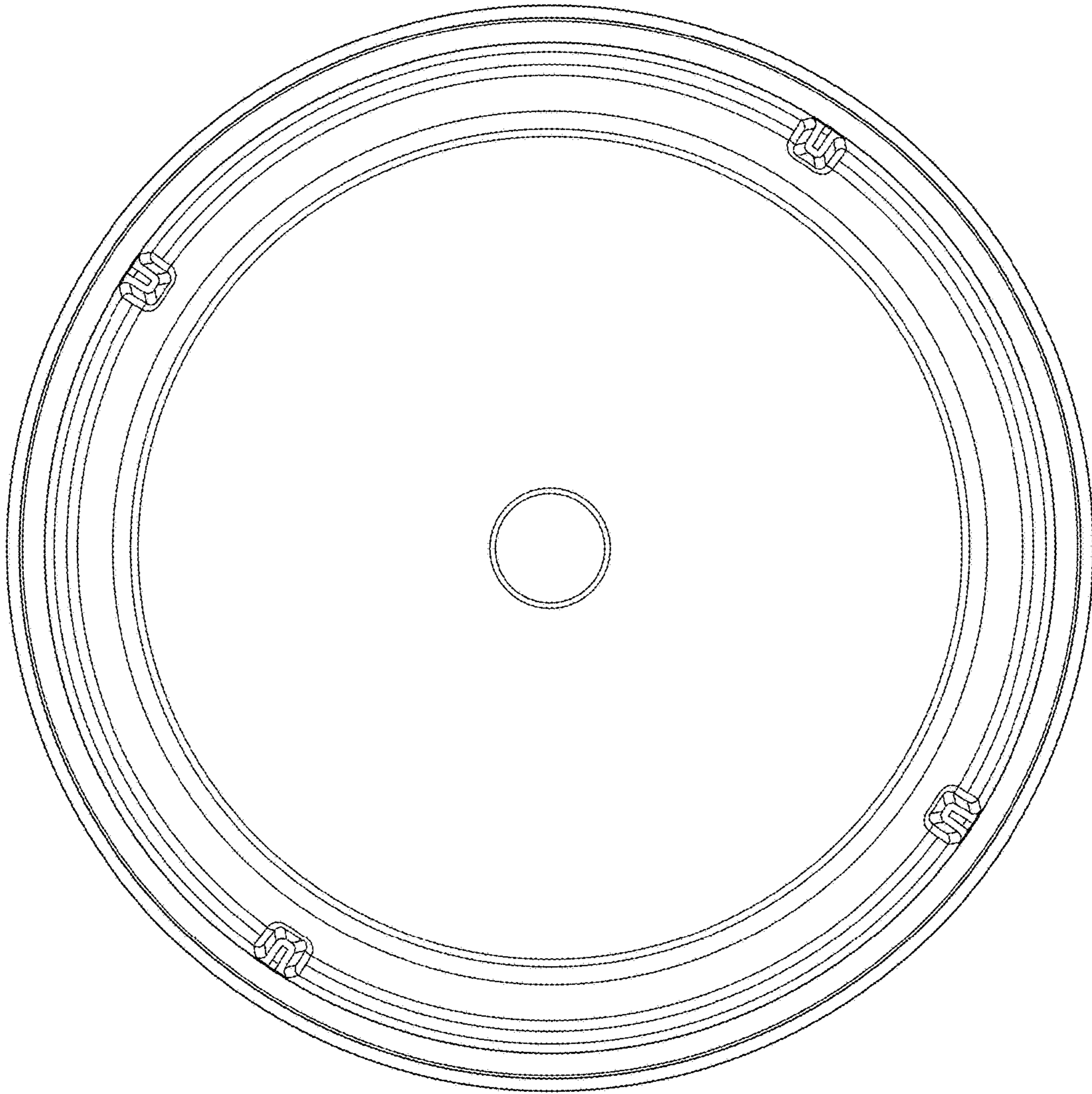


FIG. 53

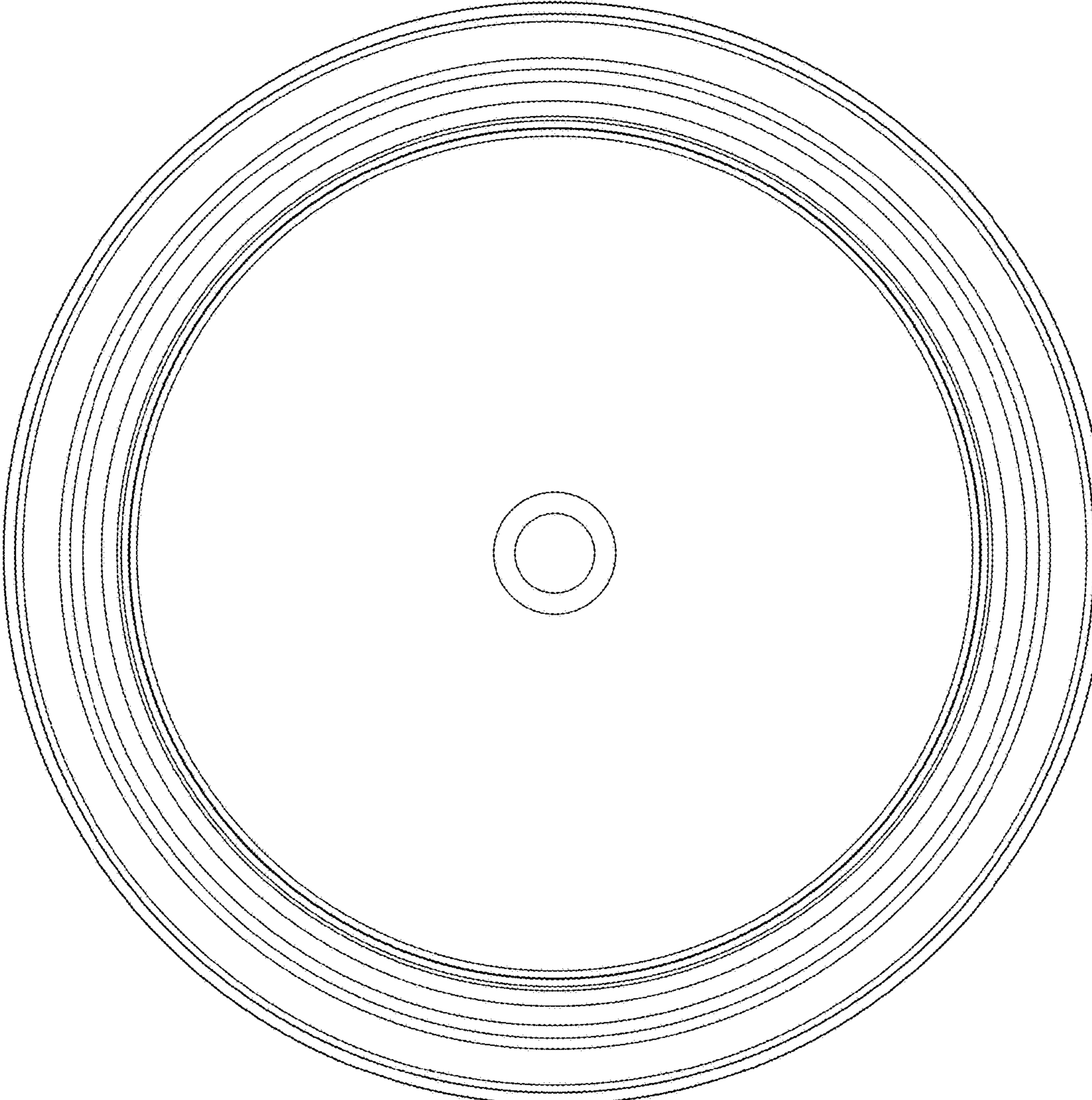


FIG. 54



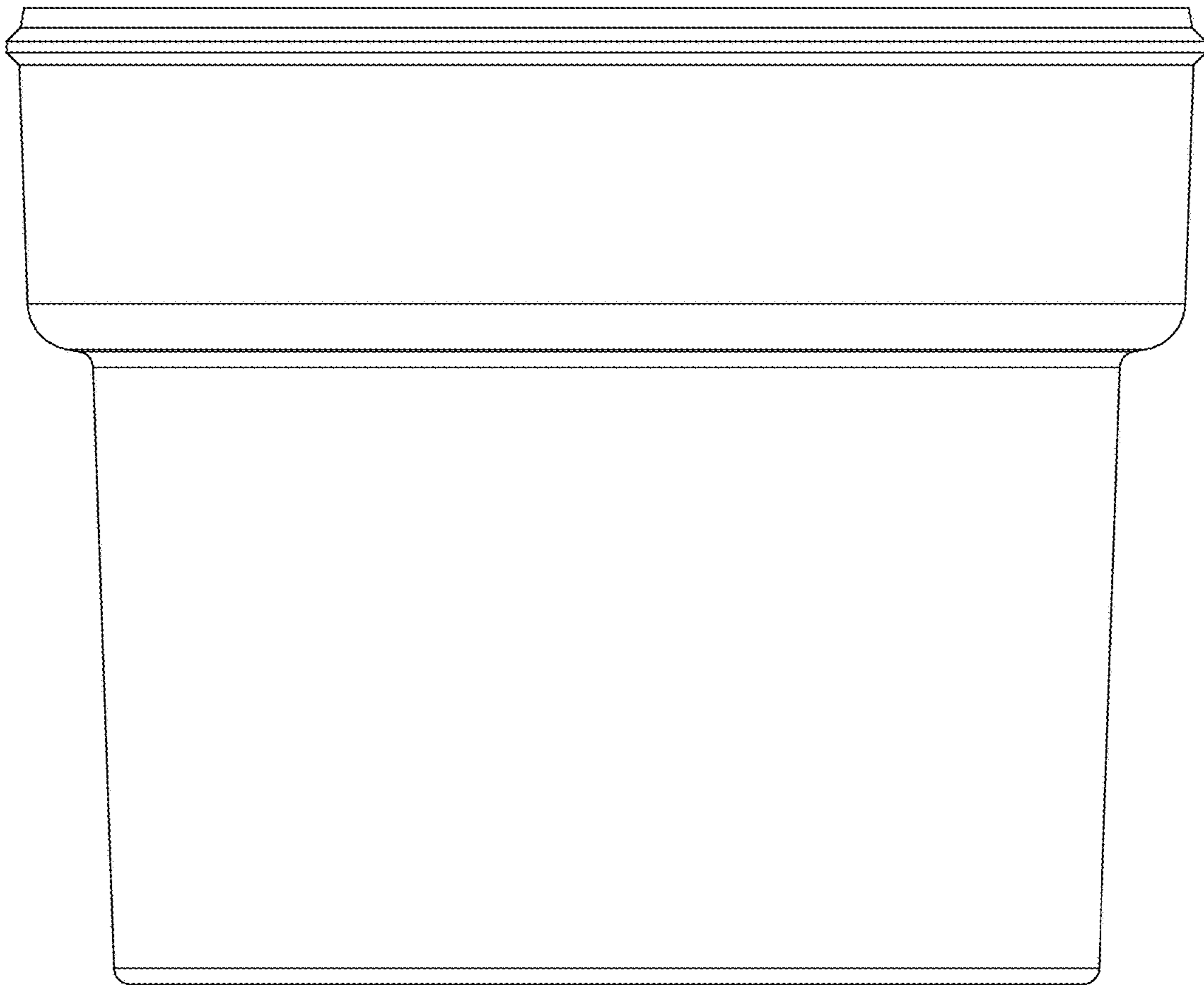


FIG. 55

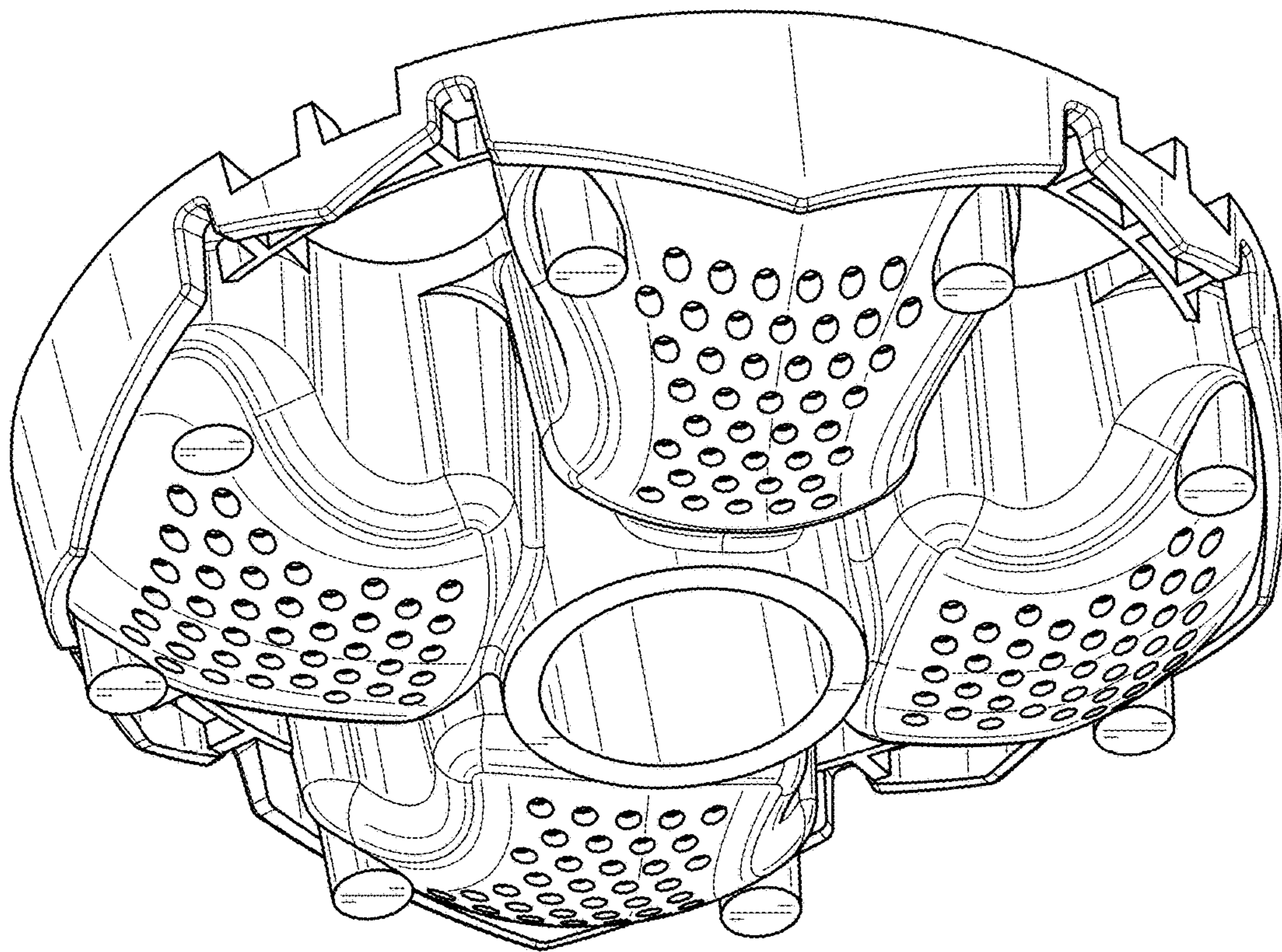


FIG. 56

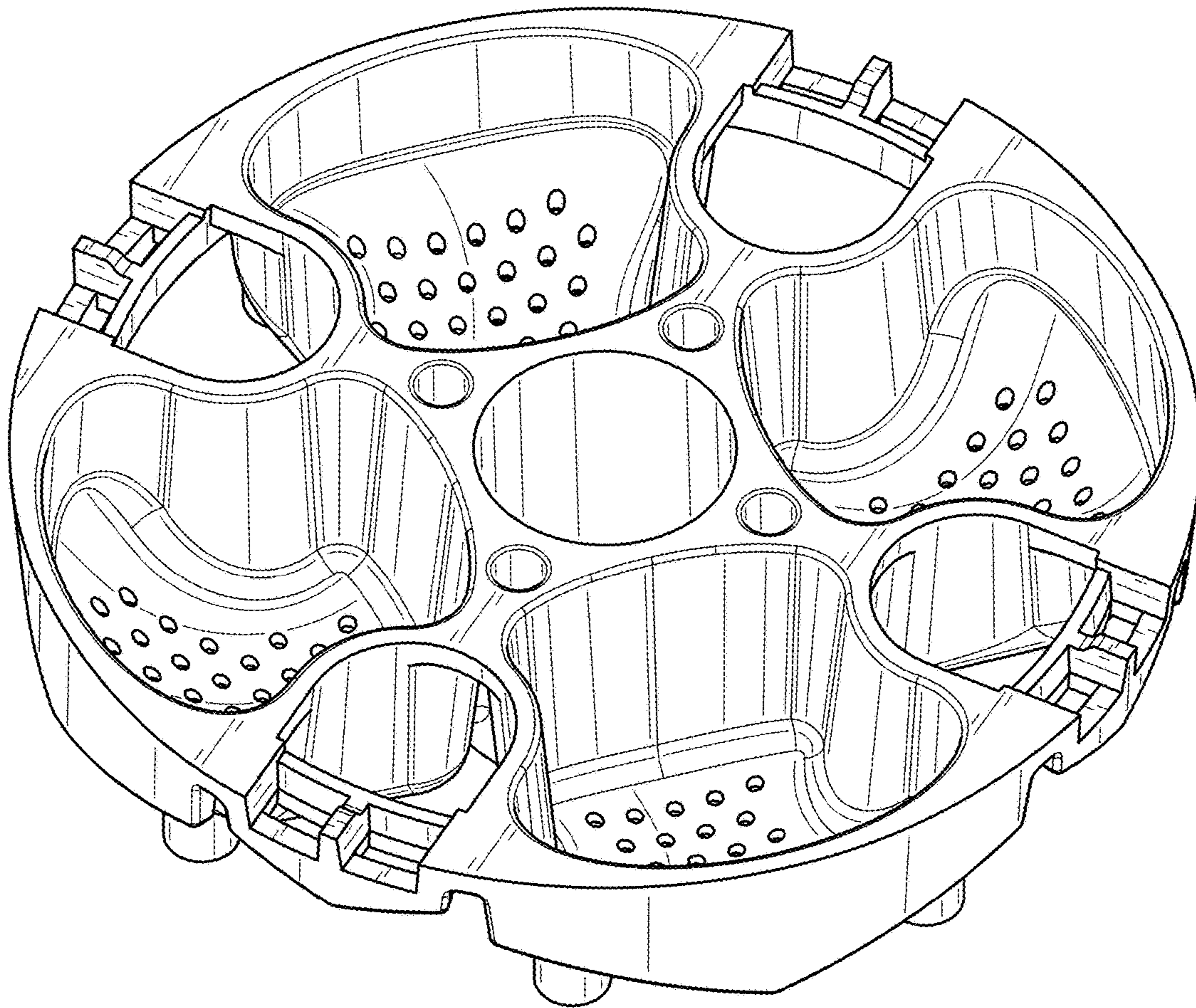


FIG. 57



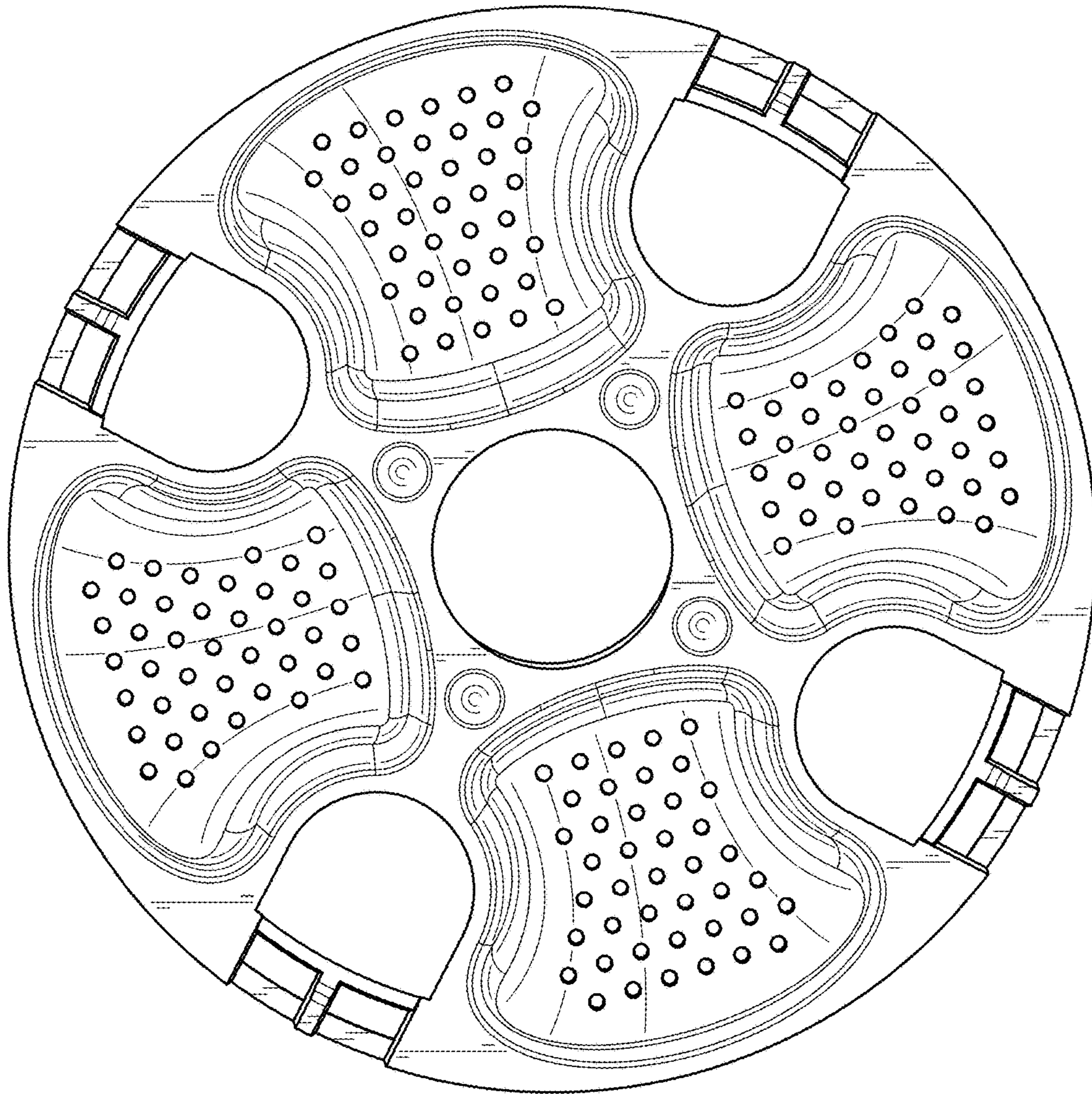


FIG. 58

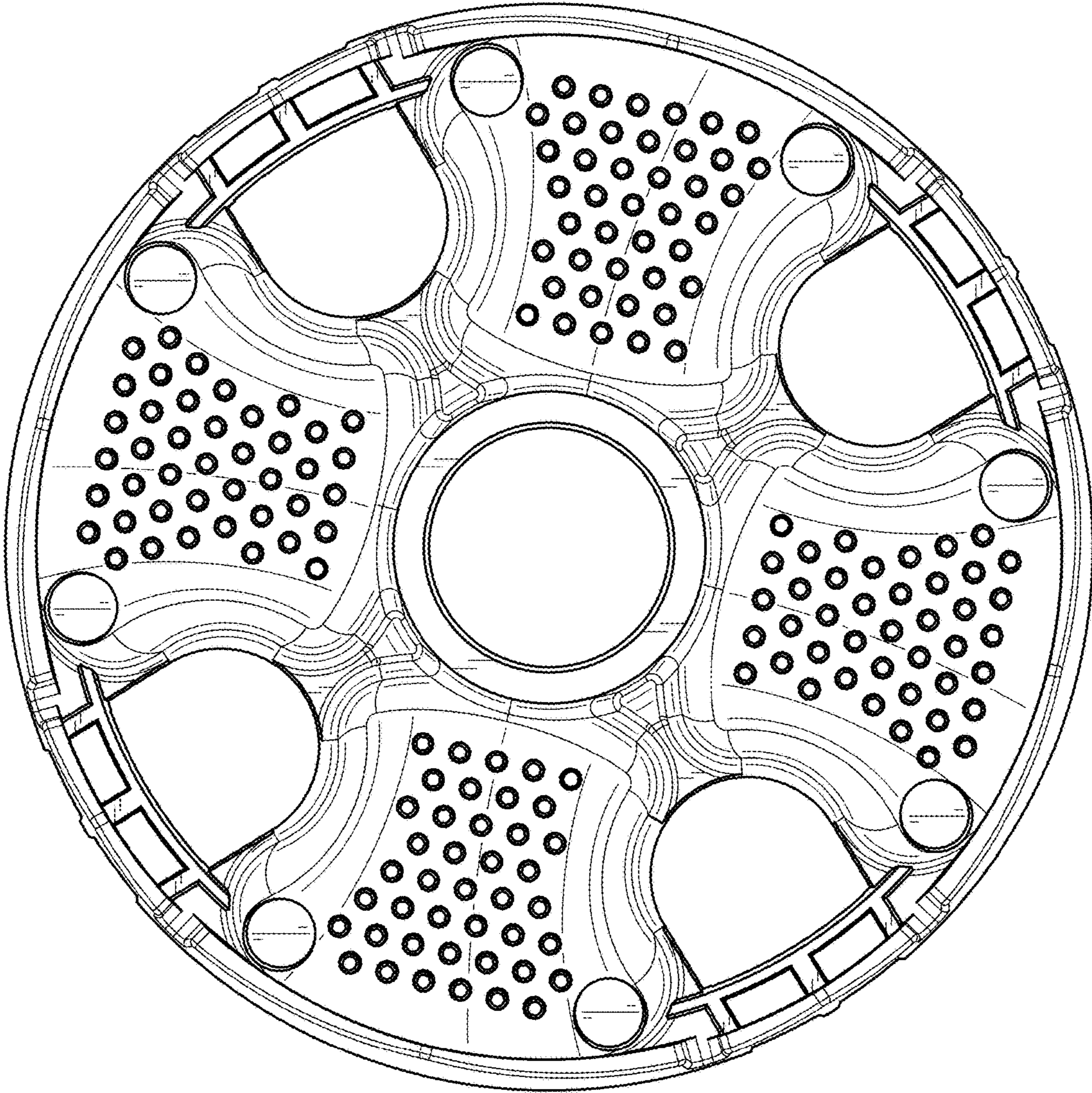


FIG. 59



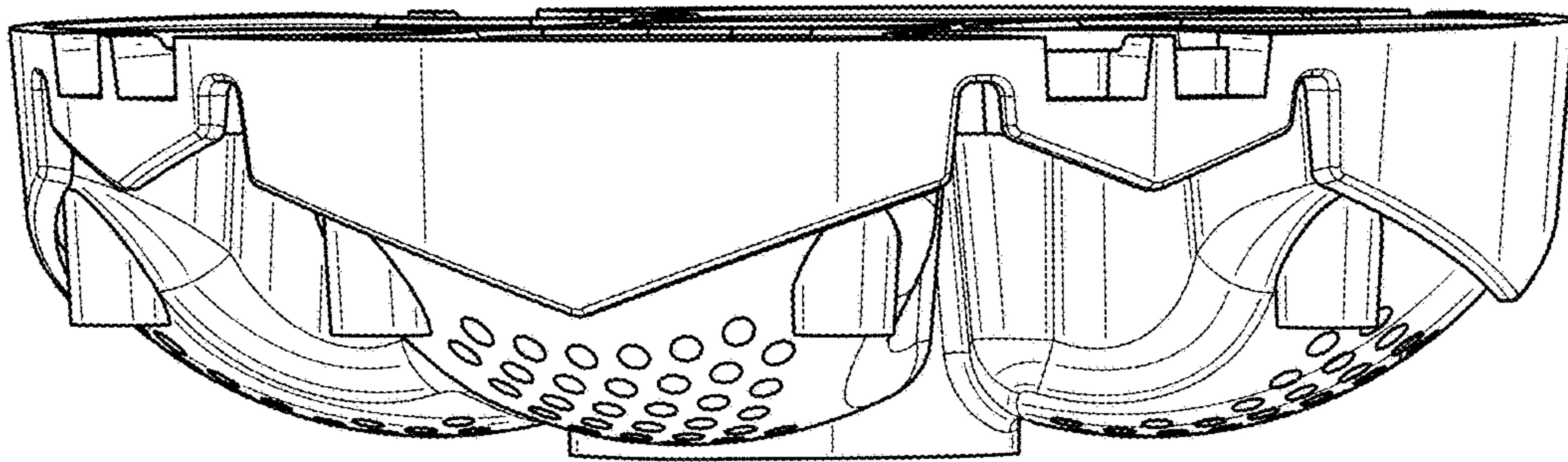


FIG. 60

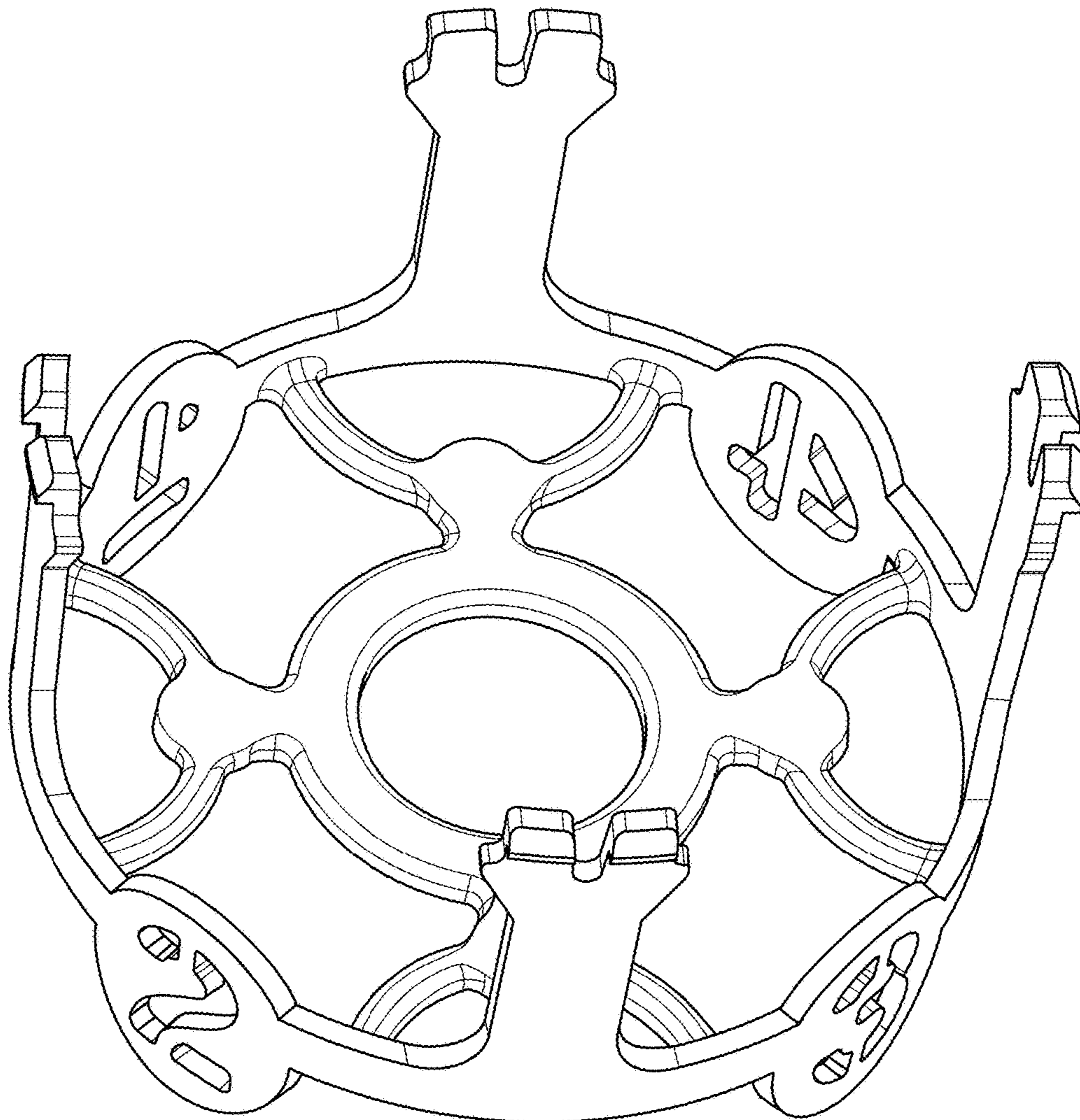


FIG. 61



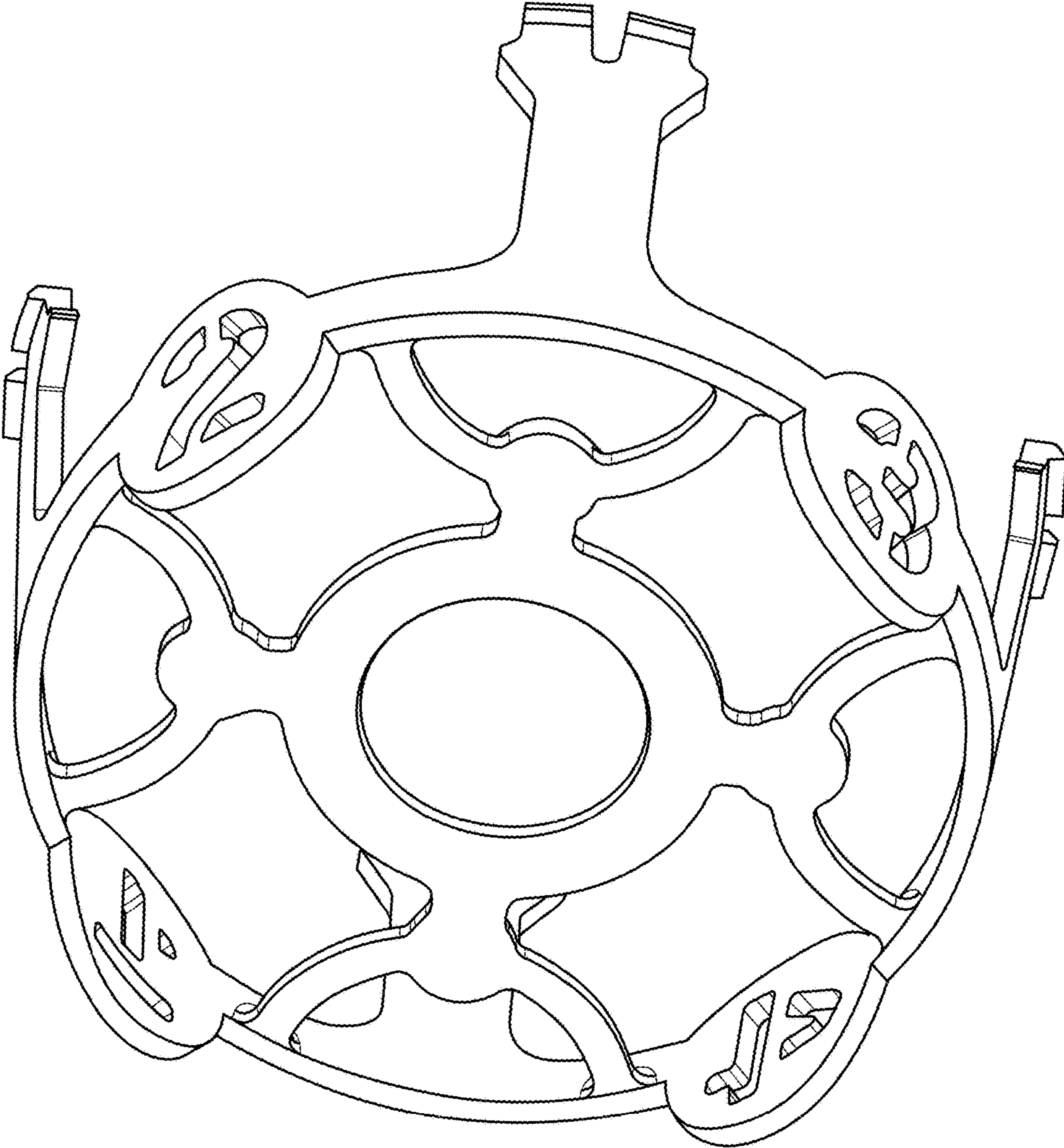


FIG. 62

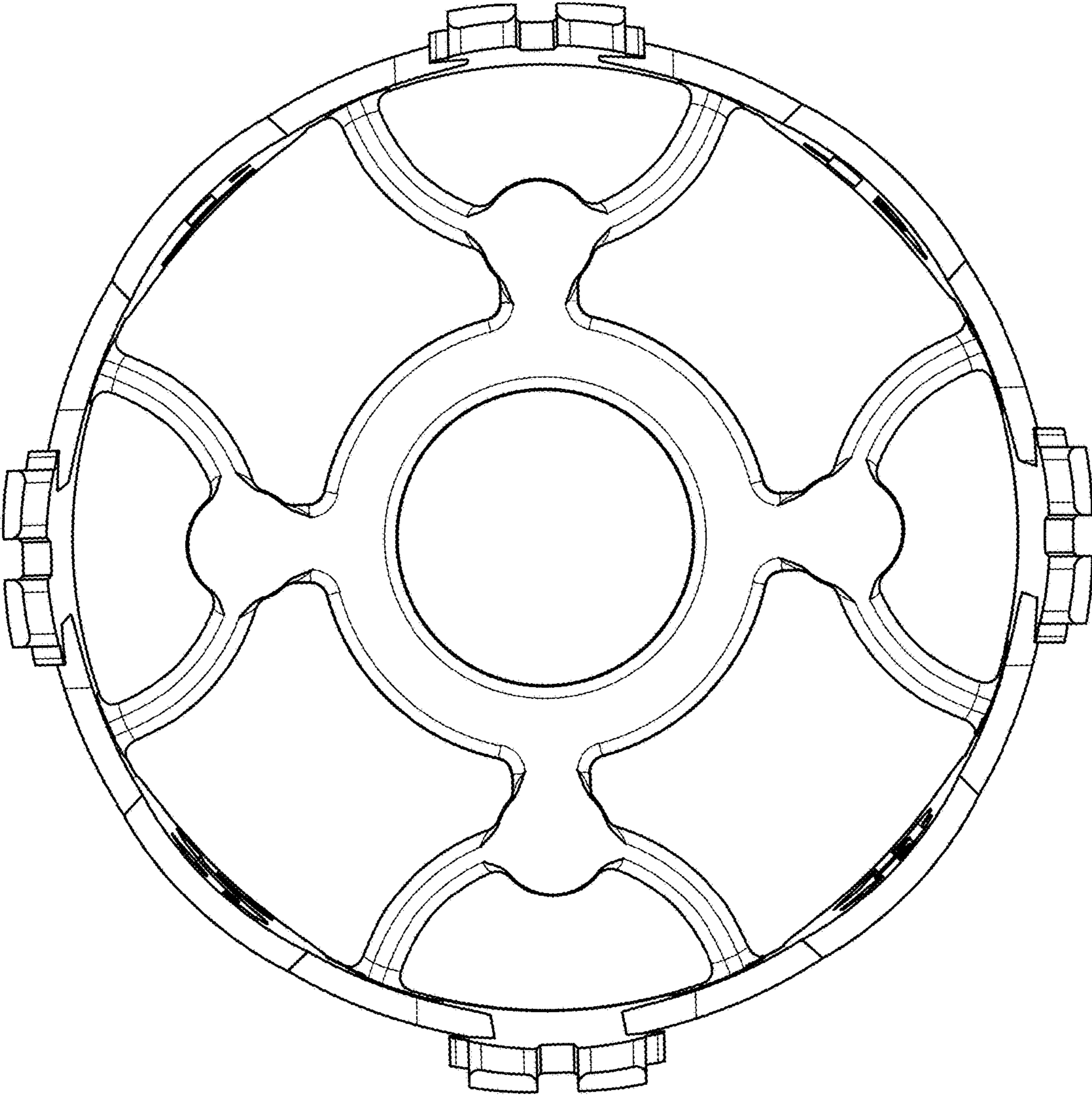


FIG. 63

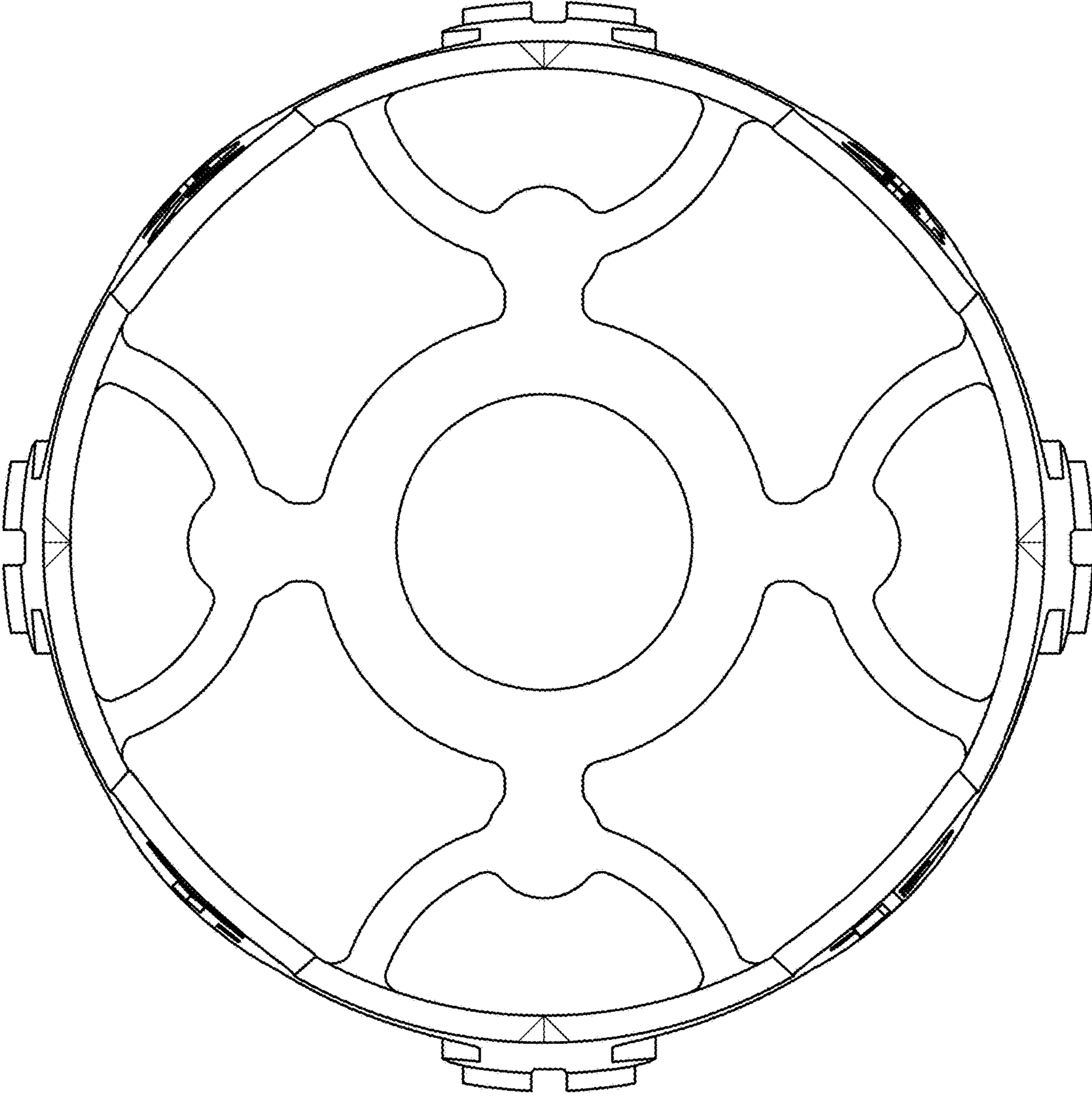


FIG. 64



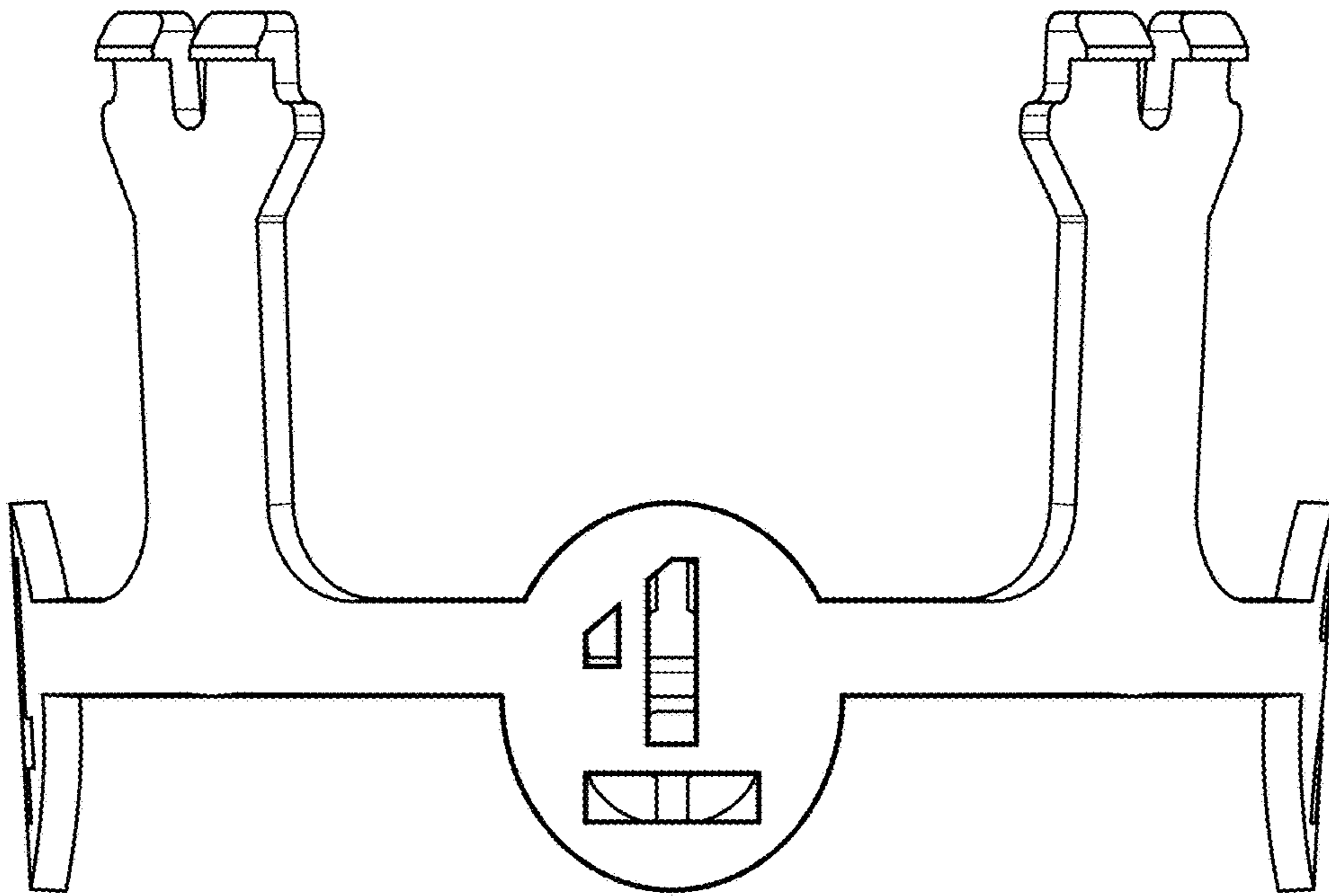


FIG. 65

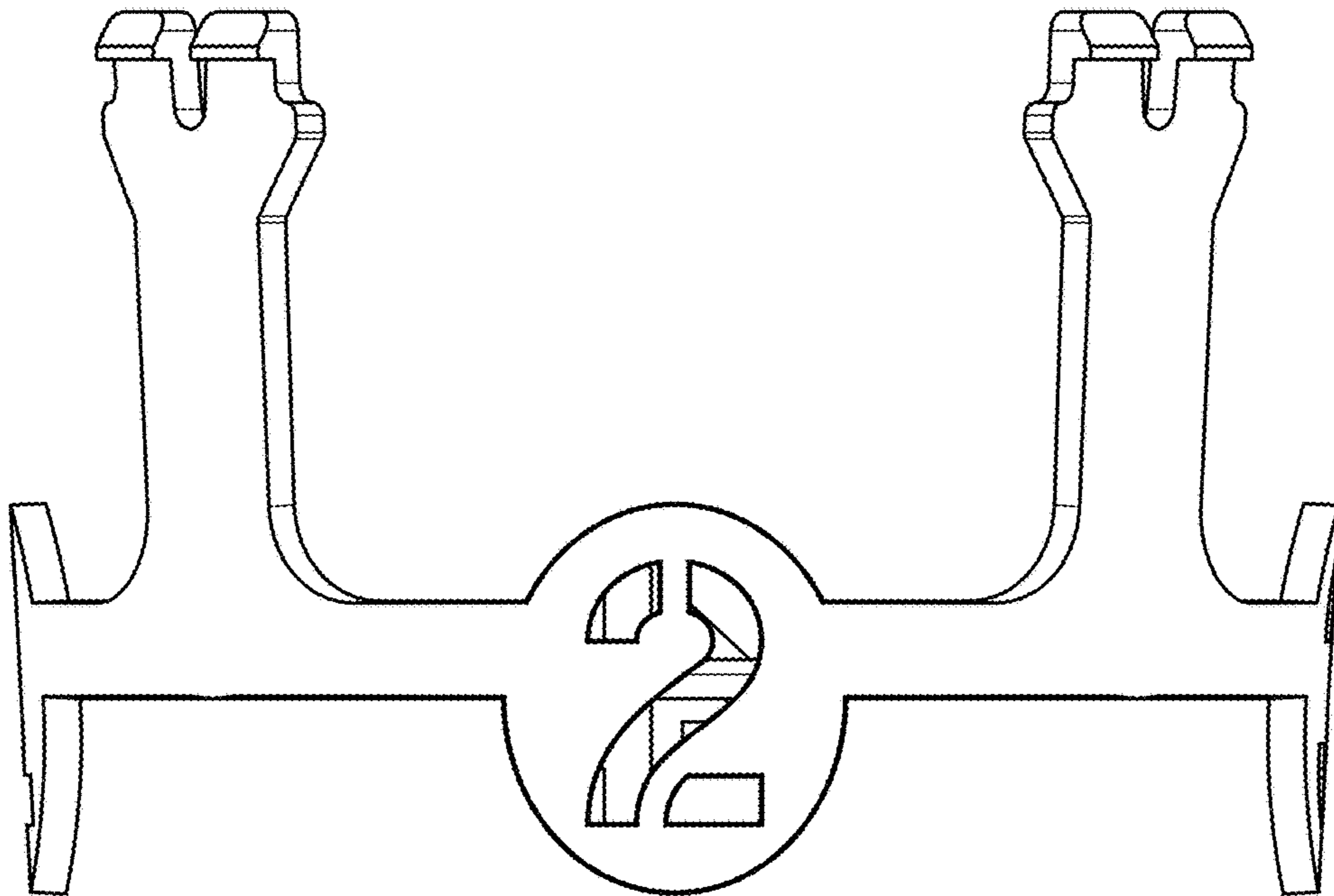


FIG. 66

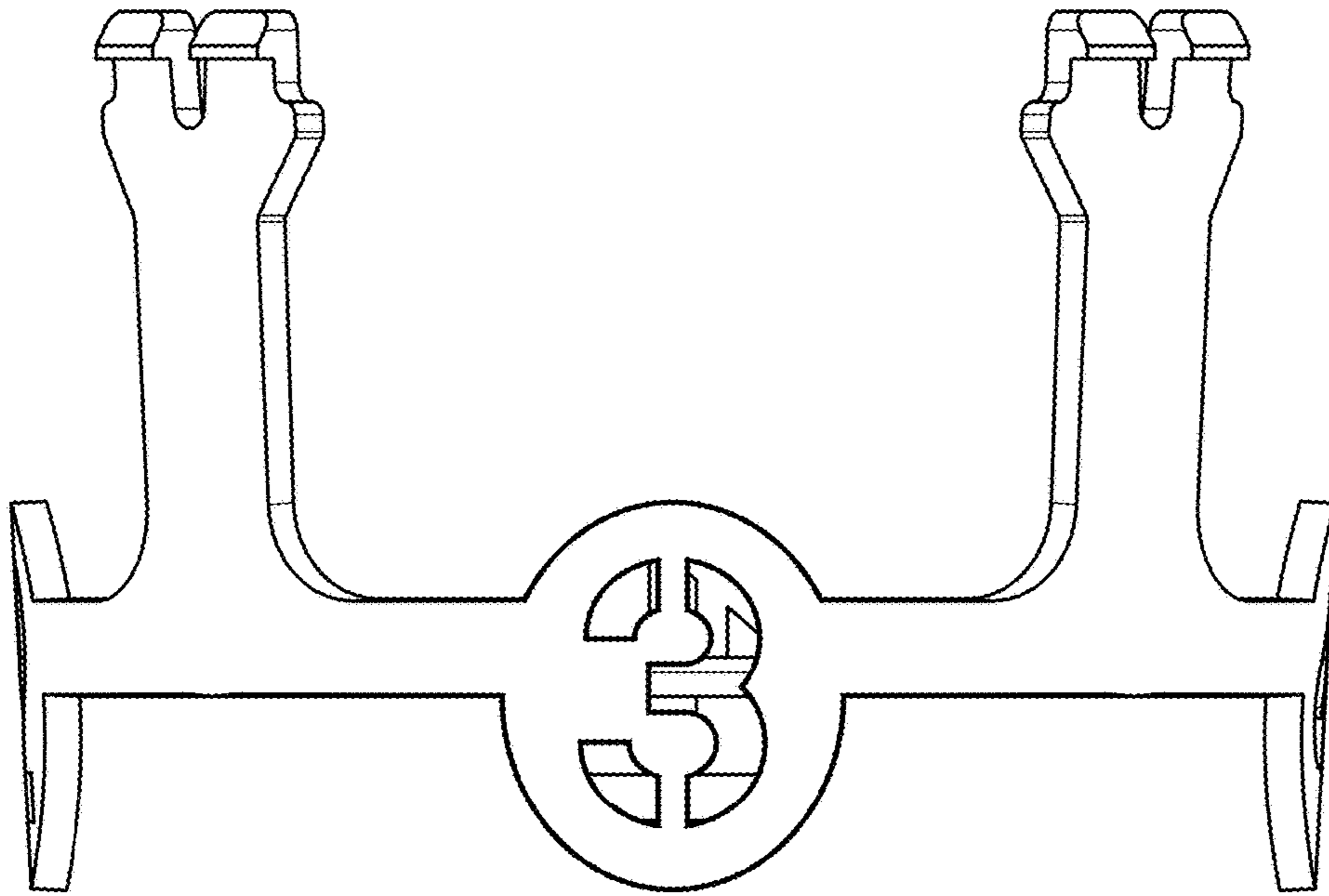


FIG. 67

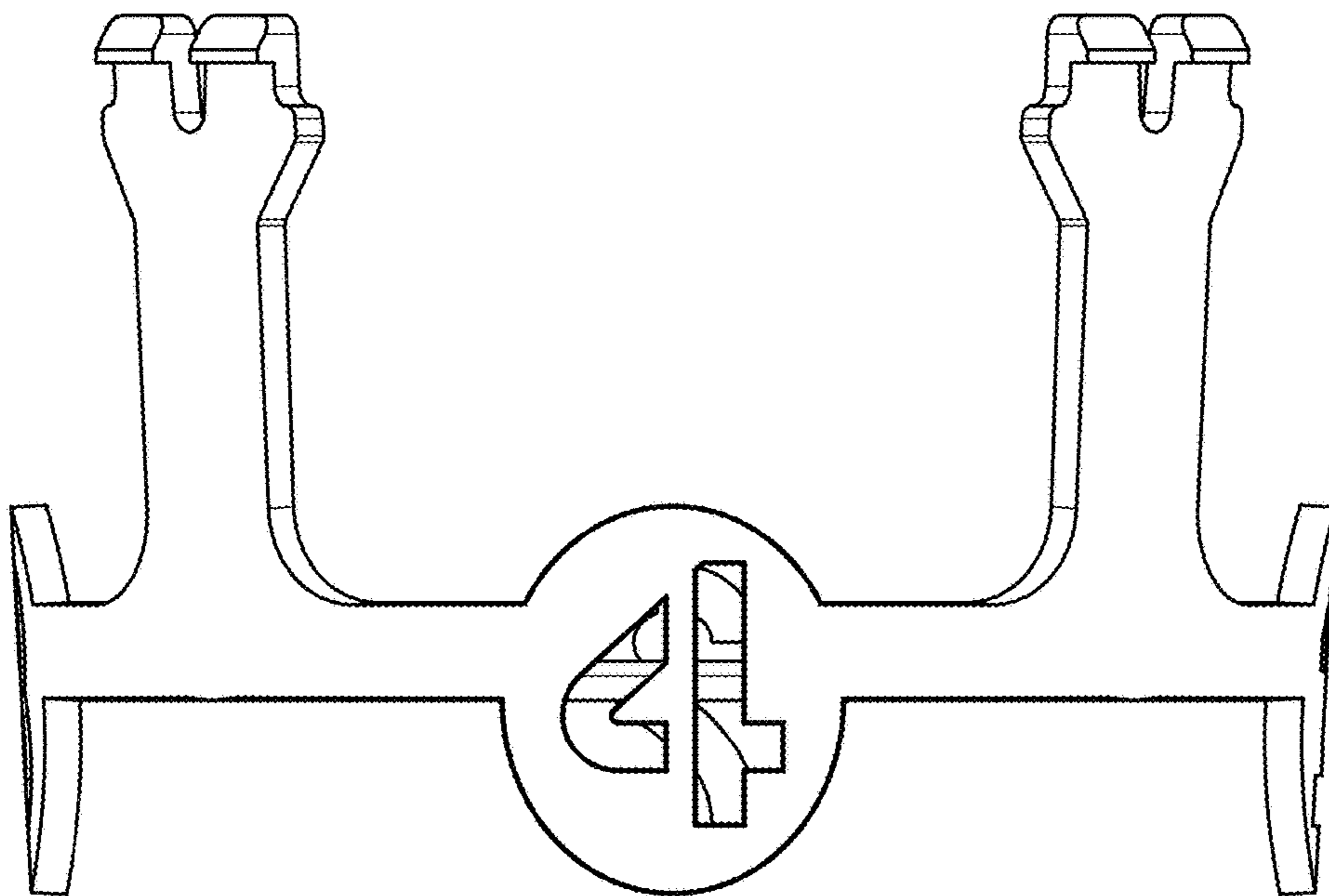


FIG. 68