



US00D975070S

(12) **United States Design Patent** (10) **Patent No.:** **US D975,070 S**  
**Zhang et al.** (45) **Date of Patent:** **\*\* Jan. 10, 2023**

(54) **LASER RADAR (LR-16F)**  
(71) Applicant: **HANGZHOU OLE-SYSTEMS CO., LTD.**, Zhejiang (CN)  
(72) Inventors: **Ou Zhang**, Hangzhou (CN); **Cheng Chen**, Hangzhou (CN)  
(73) Assignee: **HANGZHOU OLE-SYSTEMS CO., LTD.**, Zhejiang (CN)

10,036,803 B2 \* 7/2018 Pacala ..... G01S 17/42  
D826,746 S \* 8/2018 Qiu ..... D10/70  
D849,573 S \* 5/2019 Haban ..... D10/70  
D882,430 S \* 4/2020 Haban ..... D10/70  
D893,592 S \* 8/2020 Ishida ..... D18/19  
(Continued)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/718,613**

(22) Filed: **Dec. 26, 2019**

(30) **Foreign Application Priority Data**

Jul. 2, 2019 (CN) ..... 201930346478.3

(51) **LOC (14) Cl.** ..... **14-03**

(52) **U.S. Cl.**  
USPC ..... **D14/230**

(58) **Field of Classification Search**  
USPC ..... D14/231, 232, 230, 238; D15/14;  
D12/231, 345; D24/186, 158; D8/349,  
D8/382; D10/70, 102  
CPC ..... H01Q 1/36; G01S 7/4817; G01S 7/4813;  
G01S 17/931  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D442,947 S \* 5/2001 Warner ..... D14/230  
D502,758 S \* 3/2005 Gomez ..... D23/213  
D660,084 S \* 5/2012 Gilbert ..... D7/538  
D752,998 S \* 4/2016 Robinson ..... D10/65  
RE46,672 E \* 1/2018 Hall ..... G01S 7/4817  
D809,310 S \* 2/2018 Mathur ..... D6/352  
D818,320 S \* 5/2018 Campbell ..... D7/591

**FOREIGN PATENT DOCUMENTS**

CN 304308860 \* 10/2017  
CN 306512412 \* 5/2021  
(Continued)

**OTHER PUBLICATIONS**

Faselase TOF 10m . . . , available at ebay.com, first date online Sep. 1, 2020 , [site visited: Jan. 24, 2022], Available from the internet URL: <https://www.ebay.com/itm/124320240863?chn=ps&mkevt=1&mkcid=28> (Year: 2020).\*  
(Continued)

*Primary Examiner* — Daniel J Domino  
*Assistant Examiner* — Samina Vieth  
(74) *Attorney, Agent, or Firm* — Dentons US LLP

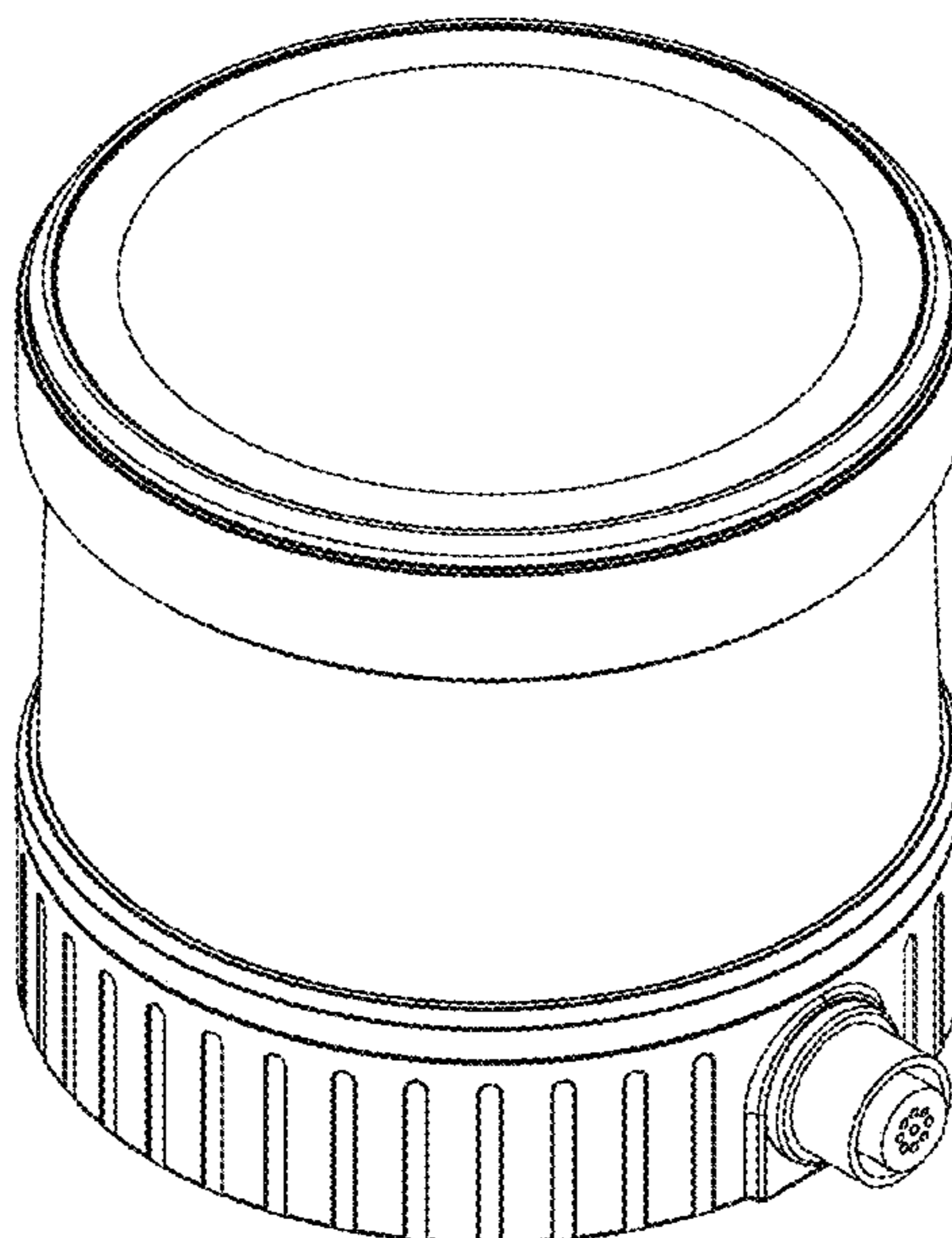
(57) **CLAIM**

We claim the ornamental design for a laser radar (LR-16F), as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a laser radar (LR-16F) showing our 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; and,  
FIG. 7 is a bottom plan view thereof.  
The dashed broken lines shown in FIG. 7 illustrate environmental structures that form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D906,143 S \* 12/2020 Amamiya ..... D10/81  
D922,221 S \* 6/2021 Matsumoto ..... D10/50  
D935,915 S \* 11/2021 Ding ..... D10/70  
D938,839 S \* 12/2021 Li ..... D10/70  
D939,366 S \* 12/2021 Tian ..... D10/70  
2014/0211194 A1 \* 7/2014 Pacala ..... G01S 17/06  
356/5.01  
2017/0299700 A1 \* 10/2017 Pacala ..... G01S 17/89  
2018/0081063 A1 \* 3/2018 Justice ..... G01S 7/4814  
2021/0048515 A1 \* 2/2021 Zhou ..... G01S 7/487

FOREIGN PATENT DOCUMENTS

EM 007434121-0001 \* 3/2020  
KR 3010563210003 \* 4/2020

OTHER PUBLICATIONS

OS0 Lidar Sensor, available at ouster.com, date available Dec. 18, 2021, [site visited: Jan. 24, 2022], Available from the internet URL: <https://data.ouster.io/downloads/datasheets/datasheet-rev06-v2p2-os0.pdf> (Year: 2021).\*

\* cited by examiner

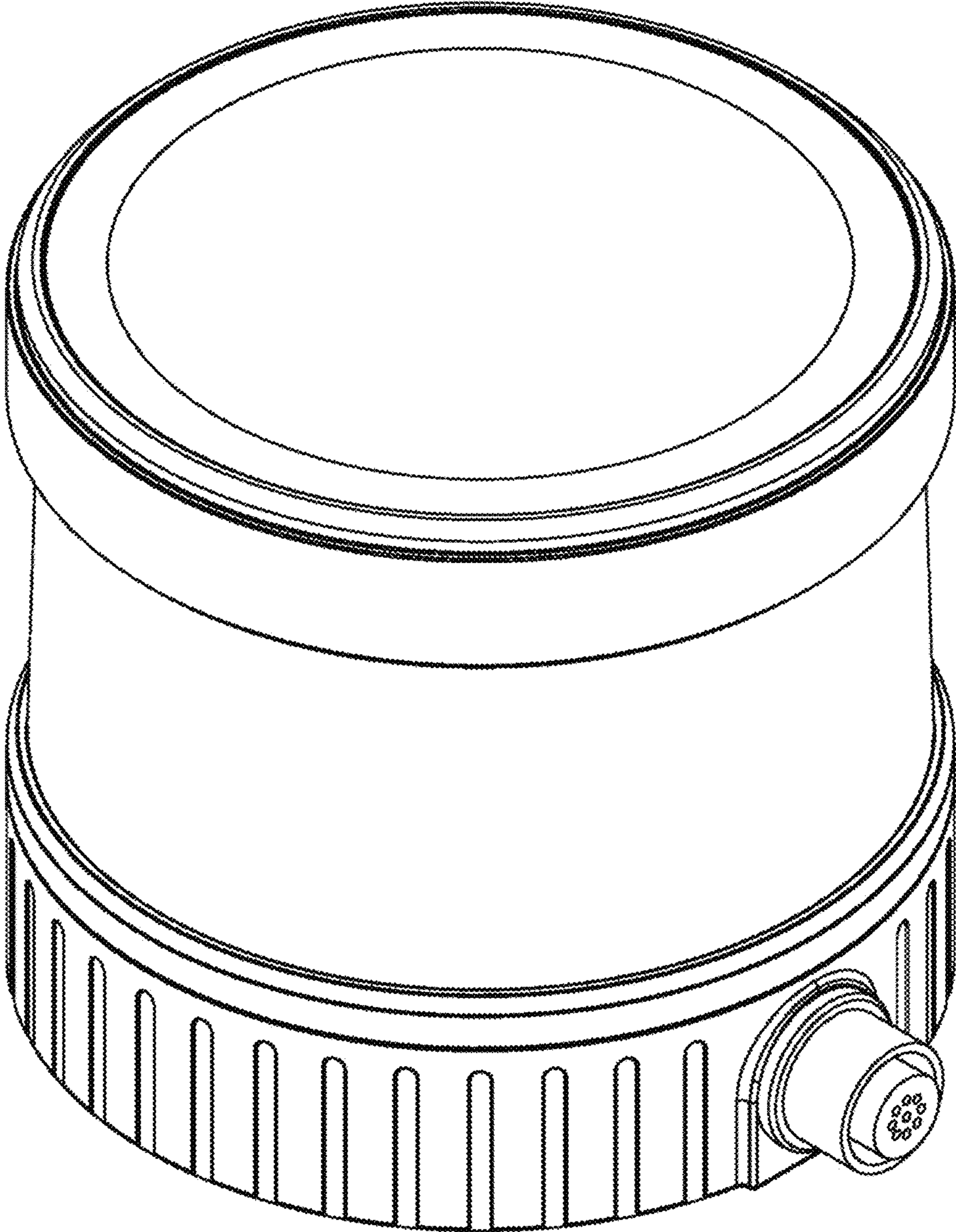


FIG. 1

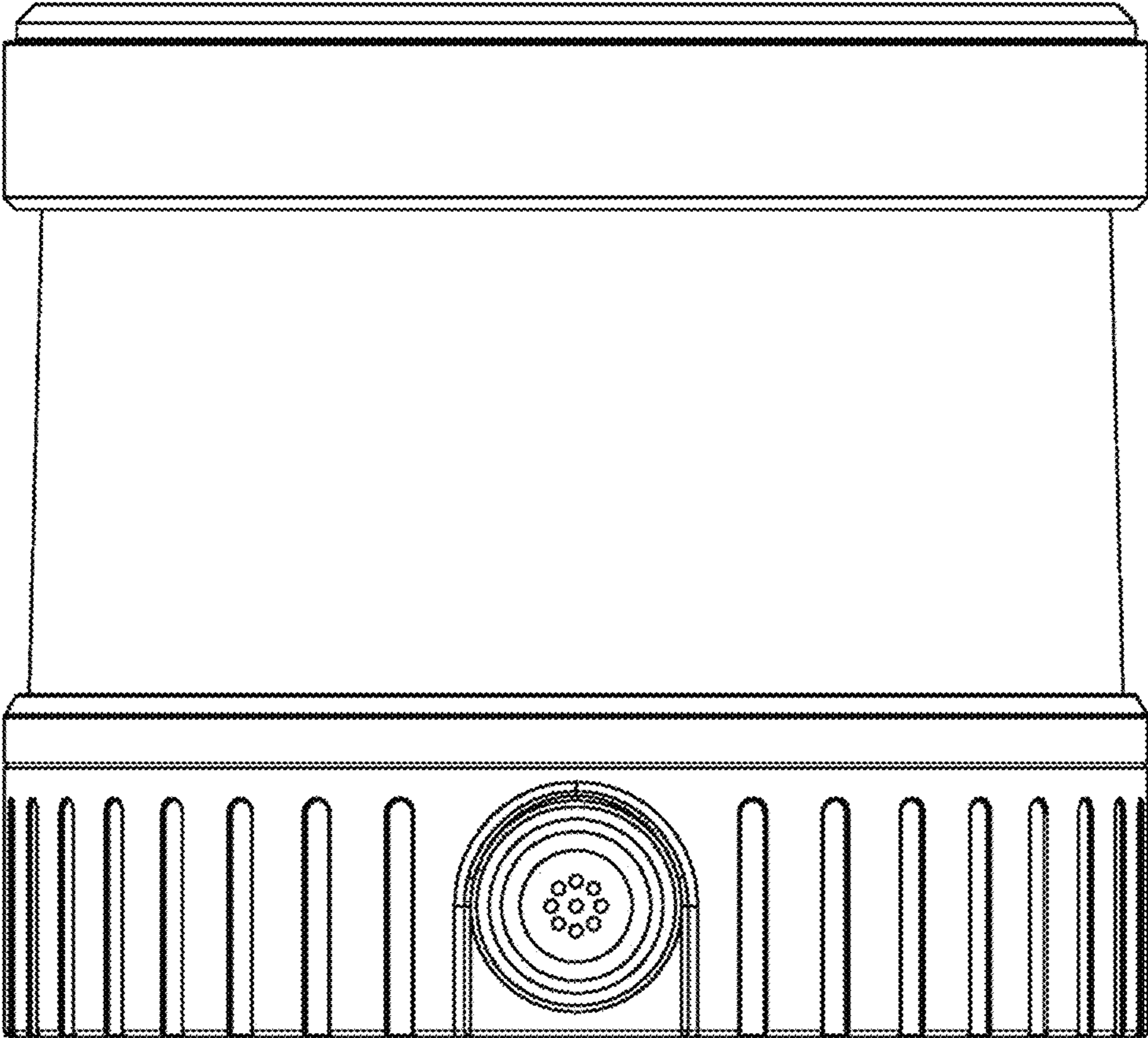


FIG. 2

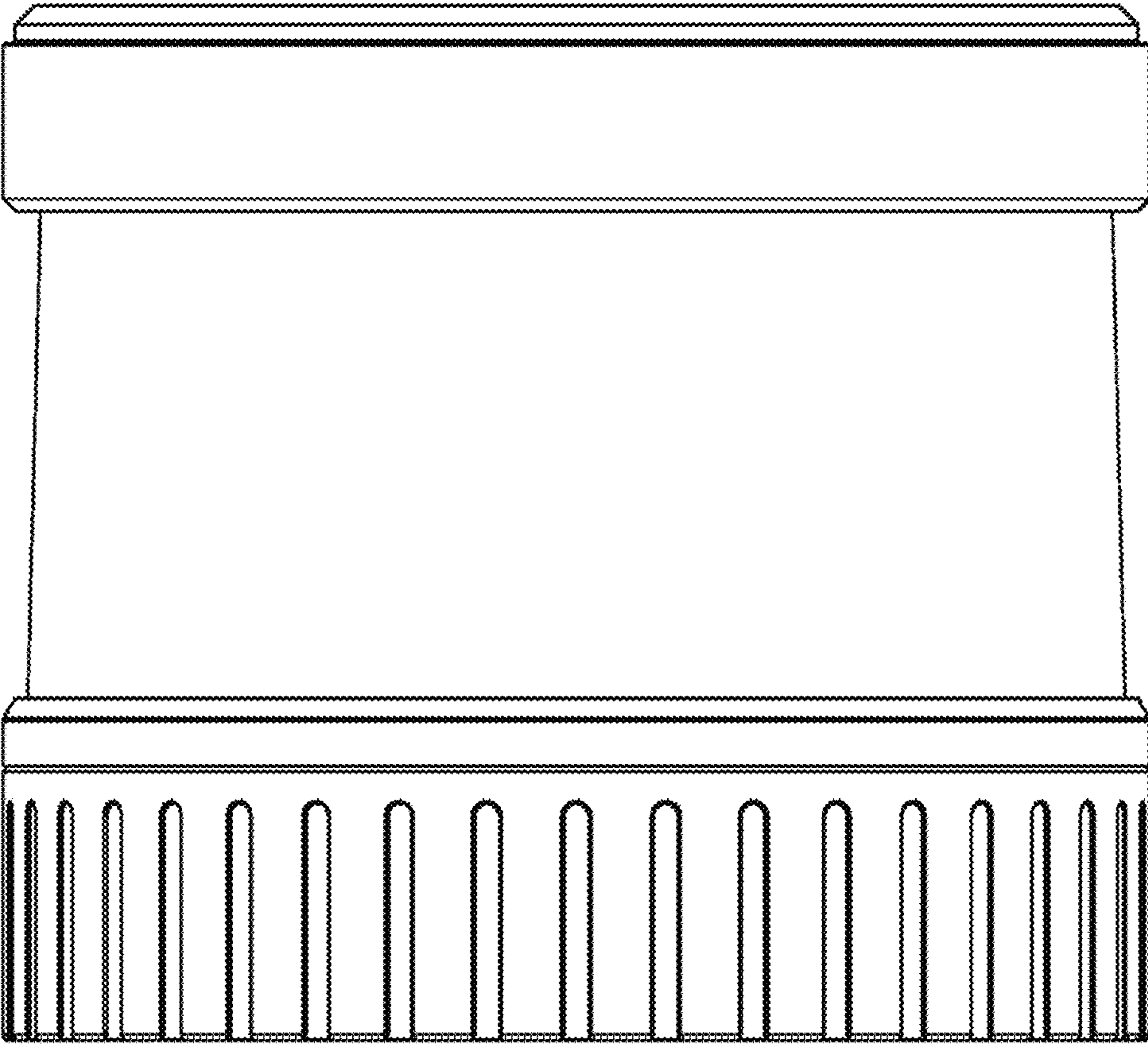


FIG. 3

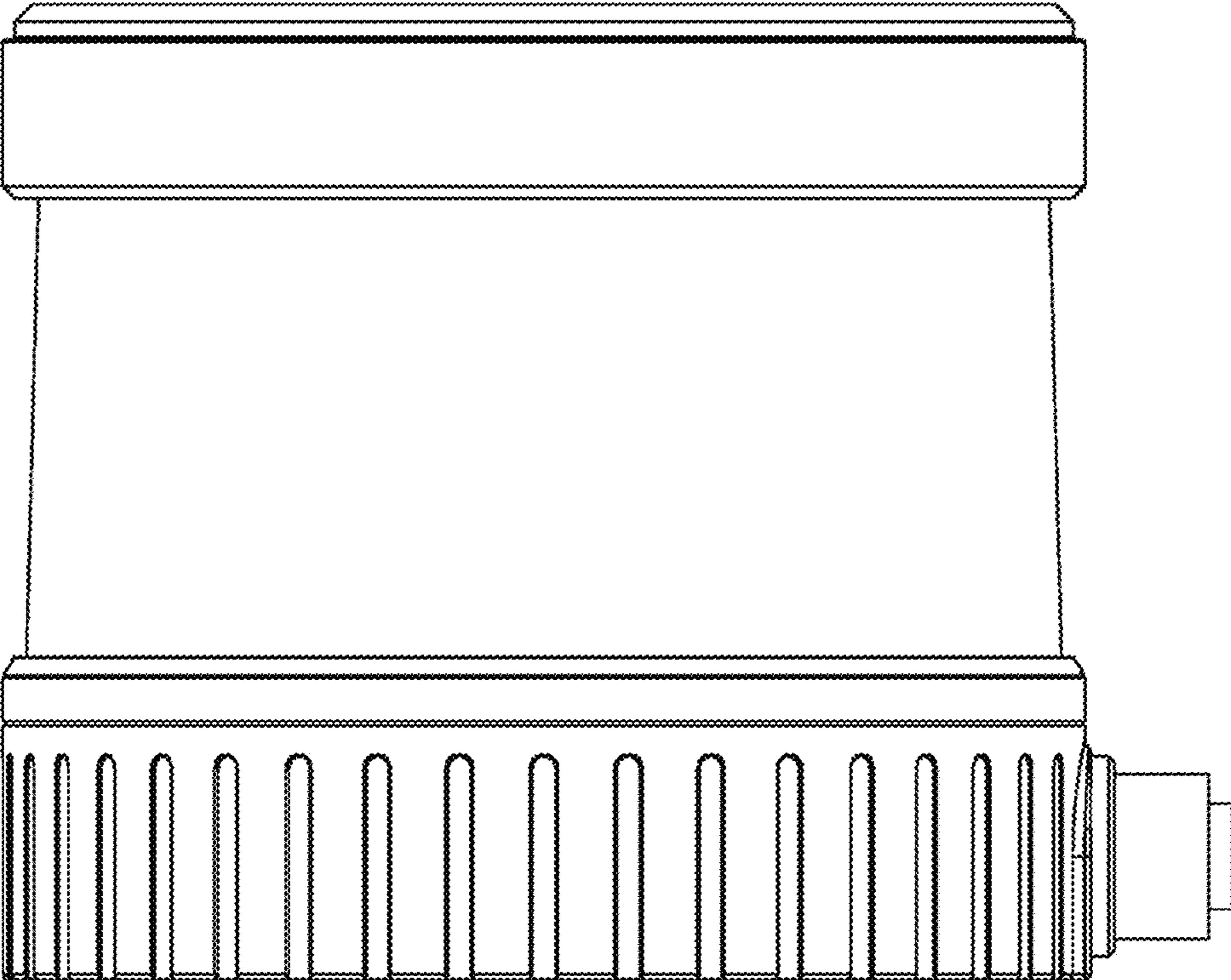


FIG. 4

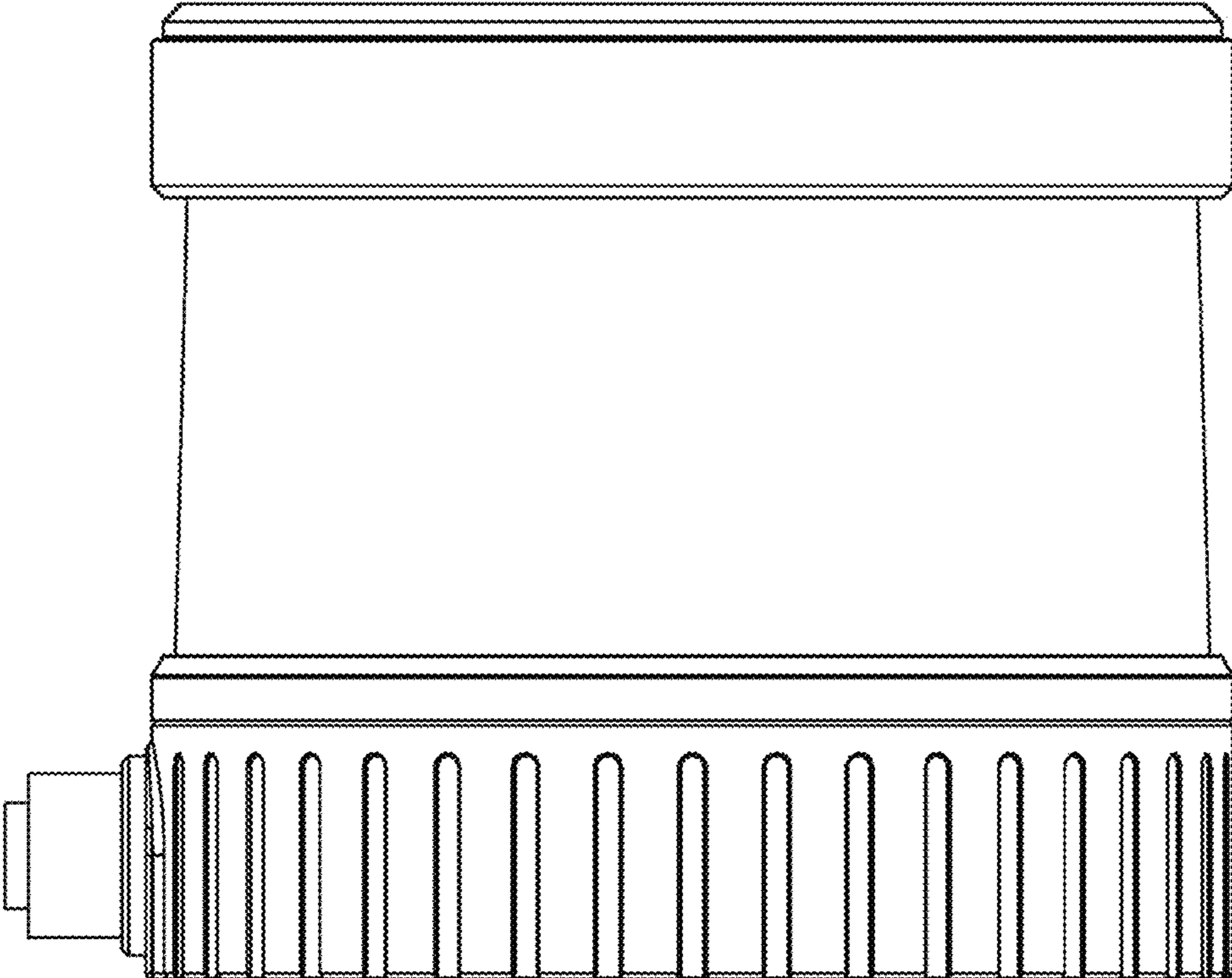


FIG. 5

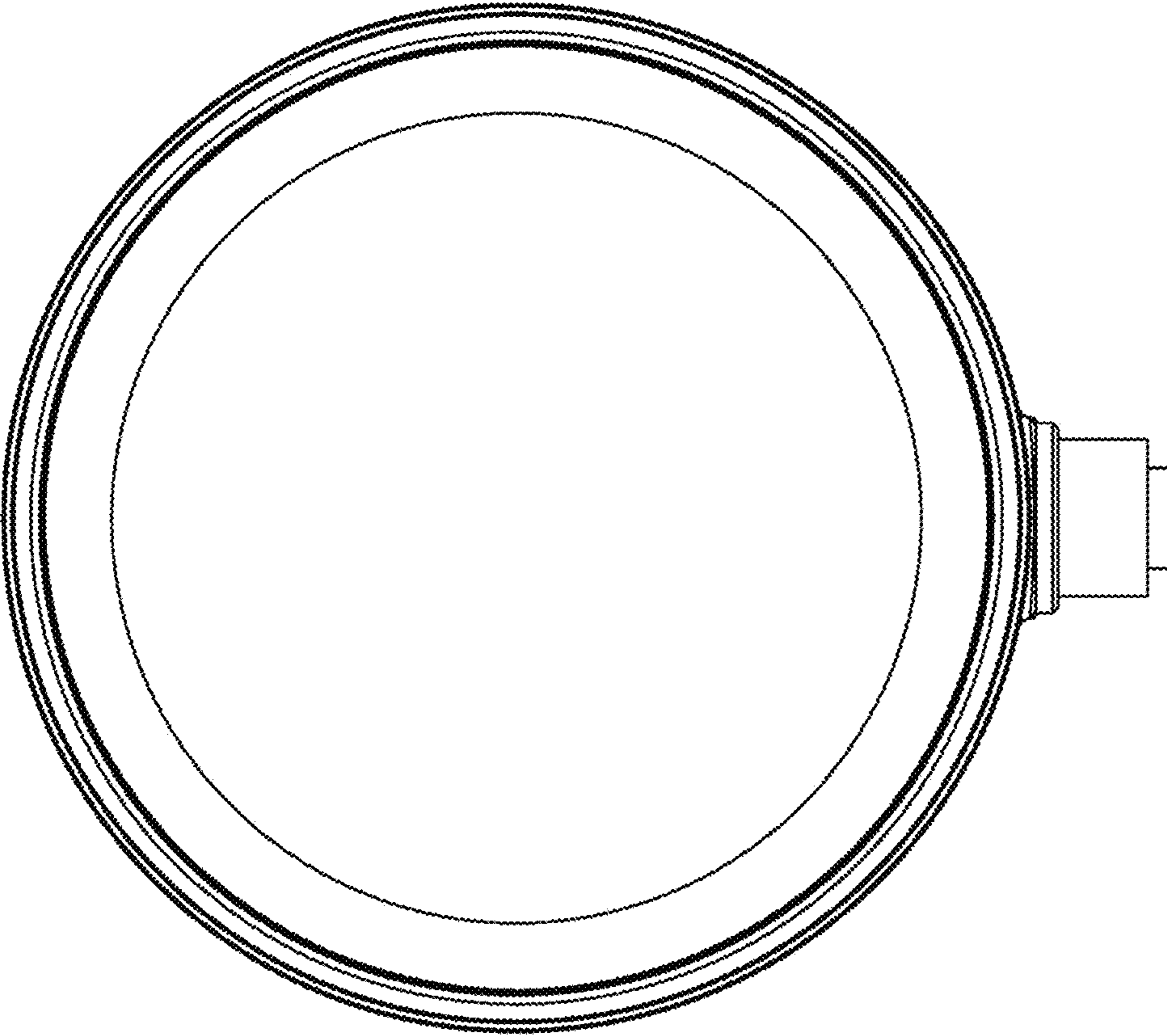


FIG. 6



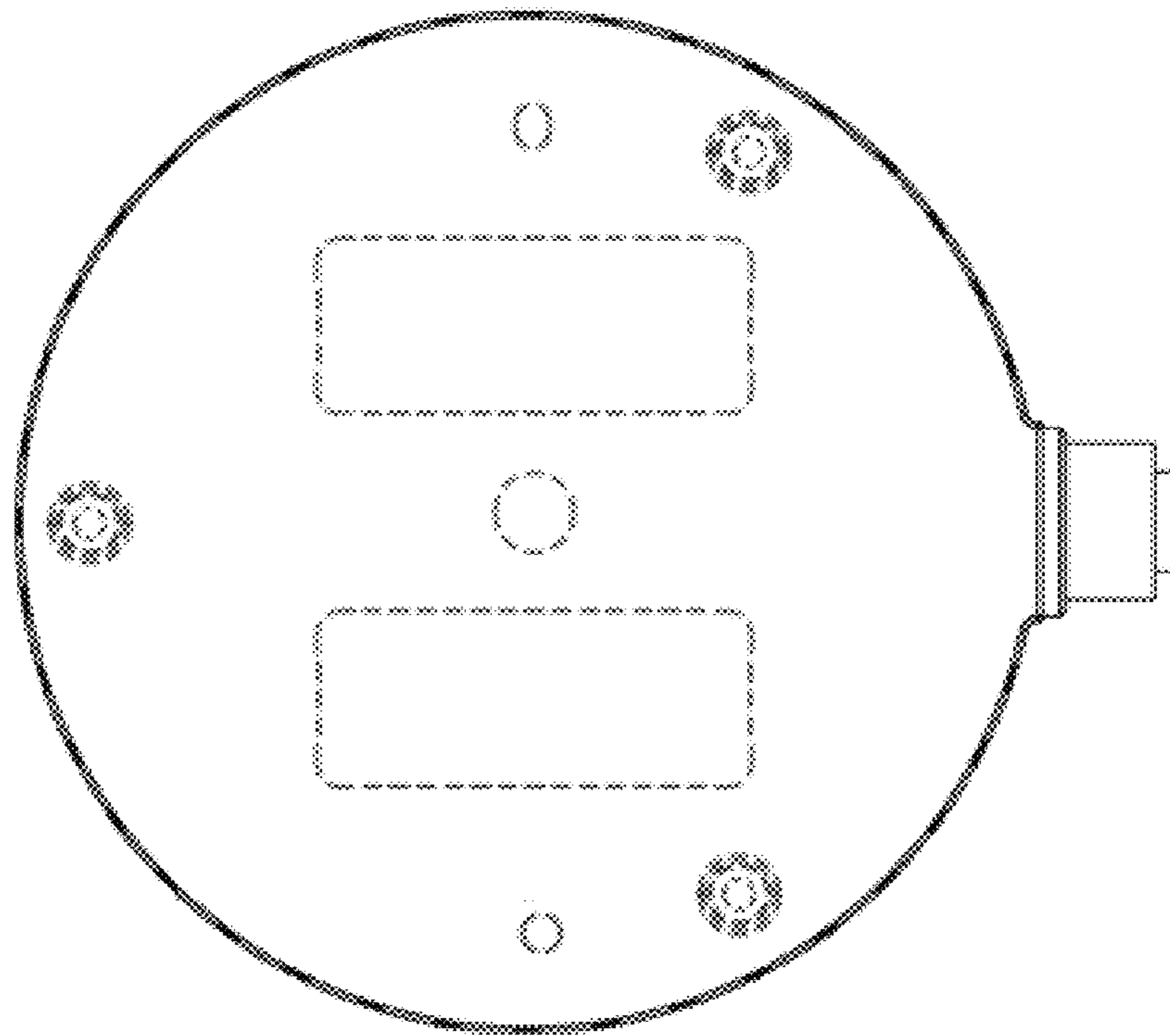


FIG. 7