



US00D899584S

(12) **United States Design Patent** (10) **Patent No.:** **US D899,584 S**  
**Carrubba et al.** (45) **Date of Patent:** **\*\* Oct. 20, 2020**

(54) **RESERVOIR PIEZO DISK ASSEMBLY FOR A NEBULIZER**

(71) Applicant: **Convexity Scientific Inc.**, Fairfield, CT (US)

(72) Inventors: **Vincent F. Carrubba**, Baldwin, NY (US); **Ralph Finger**, Westport, CT (US)

(73) Assignee: **Convexity Scientific Inc.**, Fairfield, CT (US)

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

(21) Appl. No.: **29/701,643**

(22) Filed: **Aug. 13, 2019**

(51) **LOC (12) Cl.** ..... **29-02**

(52) **U.S. Cl.**  
USPC ..... **D24/110**

(58) **Field of Classification Search**  
USPC ..... D24/107-108, 110, 110.5, 127, 164  
CPC ..... A61M 11/005; A61M 15/0085; A61M 11/00; A61M 16/14; A61M 11/02; A61M 15/00; A61M 15/0001; A61M 15/001; A61M 11/08; A61M 15/0021; A61M 15/0023; A61M 11/001; A61M 11/002; A61M 2205/50; A61M 2016/0021; A61M 11/003

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,070,870 A \* 12/1991 Pearce ..... A61M 15/0028  
128/203.12  
D350,602 S \* 9/1994 Hobbs ..... D24/110  
D363,775 S \* 10/1995 Hobbs ..... D24/110  
9,050,424 B2 \* 6/2015 Van Der Mark ..... B05B 17/06  
D814,019 S \* 3/2018 Crosby ..... D24/110  
10,092,924 B2 \* 10/2018 Hogan ..... A61M 15/0085  
D856,508 S \* 8/2019 O'Brien ..... D24/110

10,493,217 B2 \* 12/2019 McPherson Allnutt .....  
A61M 15/0085  
2008/0006264 A1 \* 1/2008 Gallem ..... A61M 15/0021  
128/200.14  
2008/0308096 A1 \* 12/2008 Borgschulte ..... A61M 11/005  
128/200.14

(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 304433122 \* 12/2017

**OTHER PUBLICATIONS**

Flyp Nebulizer—Product Features Video. Posted by Flyp Nebulizer. YouTube. Date uploaded: Jul. 26, 2018. Retrieved from Internet: [https://www.youtube.com/watch?v=tGT4Gqlpgbc&feature=emb\\_logo](https://www.youtube.com/watch?v=tGT4Gqlpgbc&feature=emb_logo) (Year: 2018).\*

(Continued)

*Primary Examiner* — Lilyana Bekic

(74) *Attorney, Agent, or Firm* — Schwegman Lundberg & Woessner, P.A.

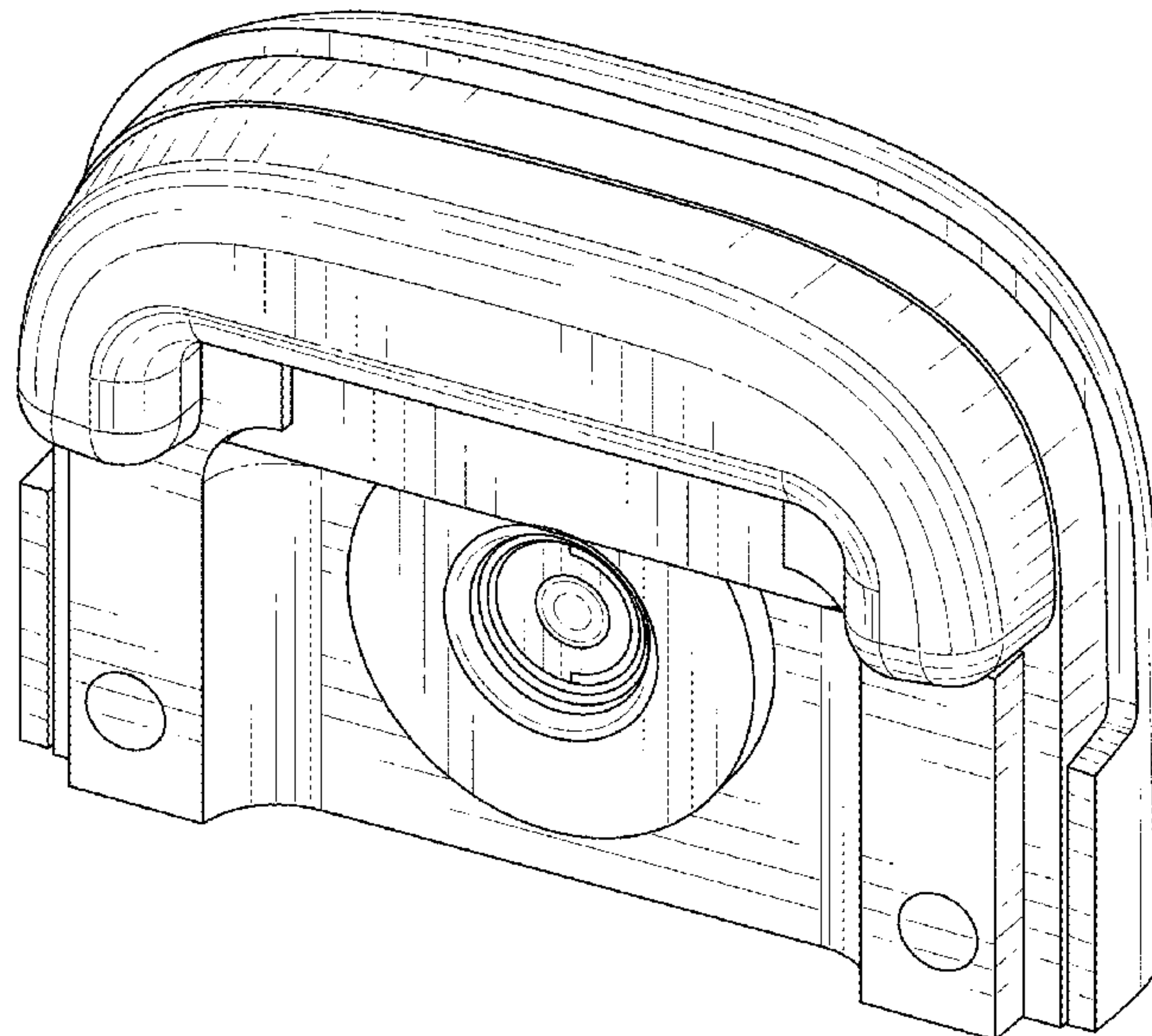
(57) **CLAIM**

The ornamental design for a reservoir piezo disk assembly for a nebulizer, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a reservoir piezo disk assembly for a nebulizer showing our new design; FIG. 2 is a back view thereof; FIG. 3 is a front view thereof; FIG. 4 is a left view thereof; FIG. 5 is a right view thereof; FIG. 6 is a bottom view thereof; and, FIG. 7 is a top view thereof. Broken lines in the drawings depict portions of the reservoir piezo disk assembly for a nebulizer that form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2010/0213274 A1\* 8/2010 Yu ..... B05B 17/0646  
239/102.2  
2010/0326431 A1\* 12/2010 Yu ..... B05B 17/0646  
128/200.14  
2016/0199594 A1\* 7/2016 Finger ..... A61M 15/0023  
128/200.16  
2016/0271343 A1\* 9/2016 Abate ..... A61M 11/001  
2018/0028441 A1\* 2/2018 Cashman ..... A61M 15/0085  
2019/0001366 A1\* 1/2019 Von Hollen ..... B05B 15/14  
2019/0231991 A1\* 8/2019 Tsai ..... A61M 15/0085  
2019/0298945 A1\* 10/2019 Akouka ..... A61M 15/0051  
2019/0299261 A1\* 10/2019 Cheng ..... A61M 15/0021  
2020/0120989 A1\* 4/2020 Danek ..... A24F 47/002

OTHER PUBLICATIONS

FLYP Nebulizer. Flypnebulizer.com. Earliest date reviewed: May 18, 2018. Retrieved from Internet: <https://flypnebulizer.com/products/flyp-nebulizer#shopify-product-reviews> (Year: 2018).\*

\* cited by examiner

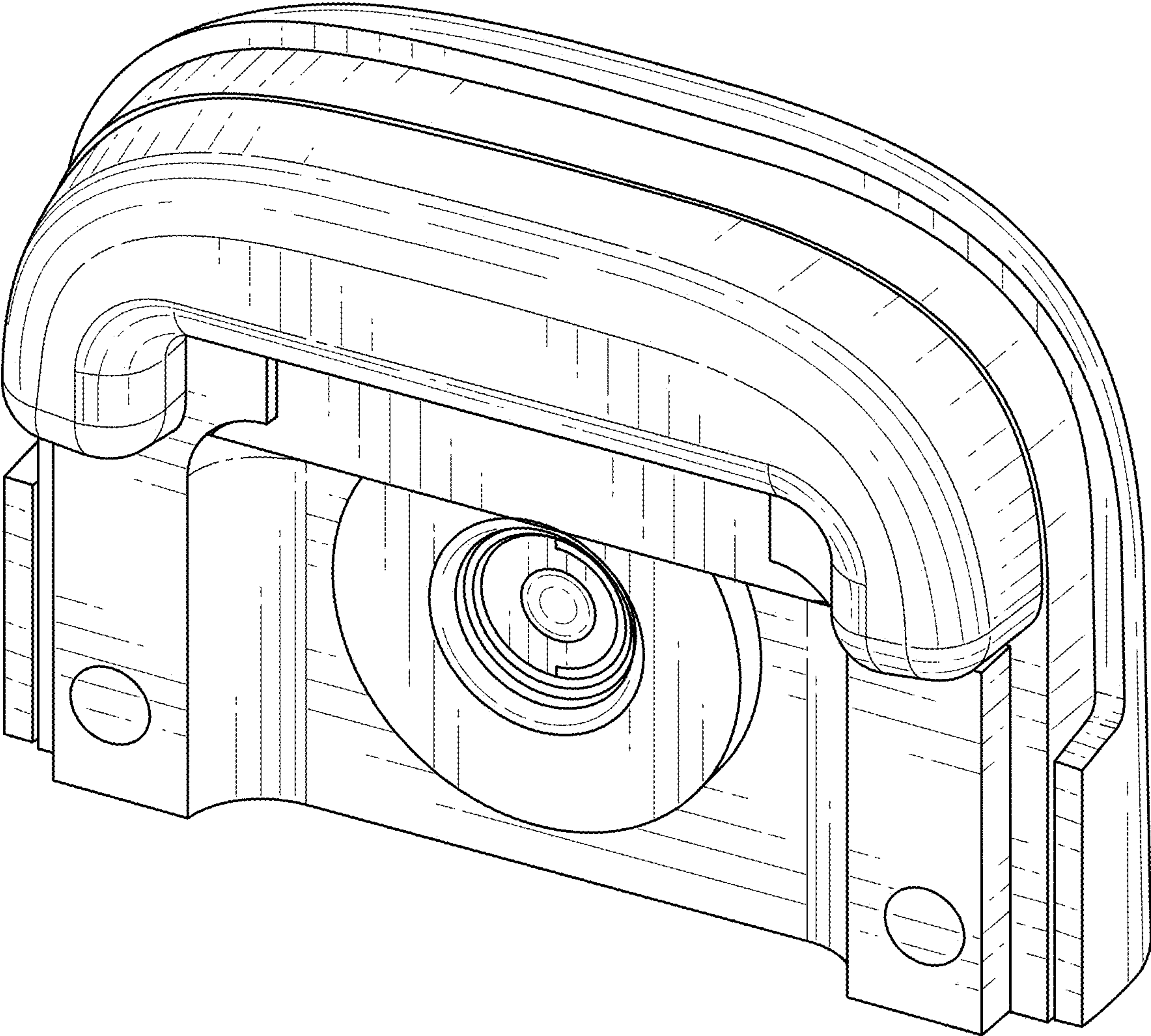


FIG. 1



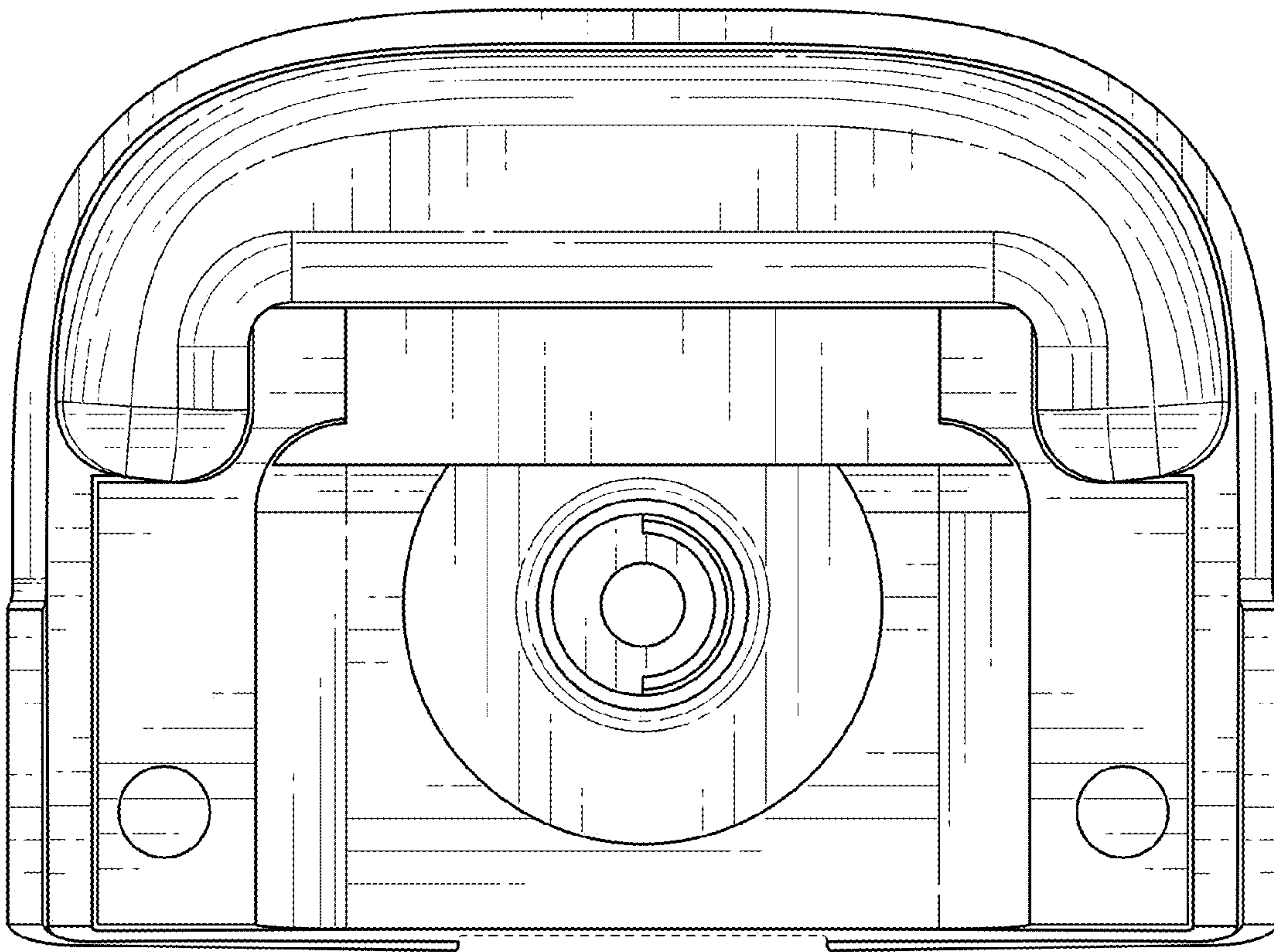


FIG. 2

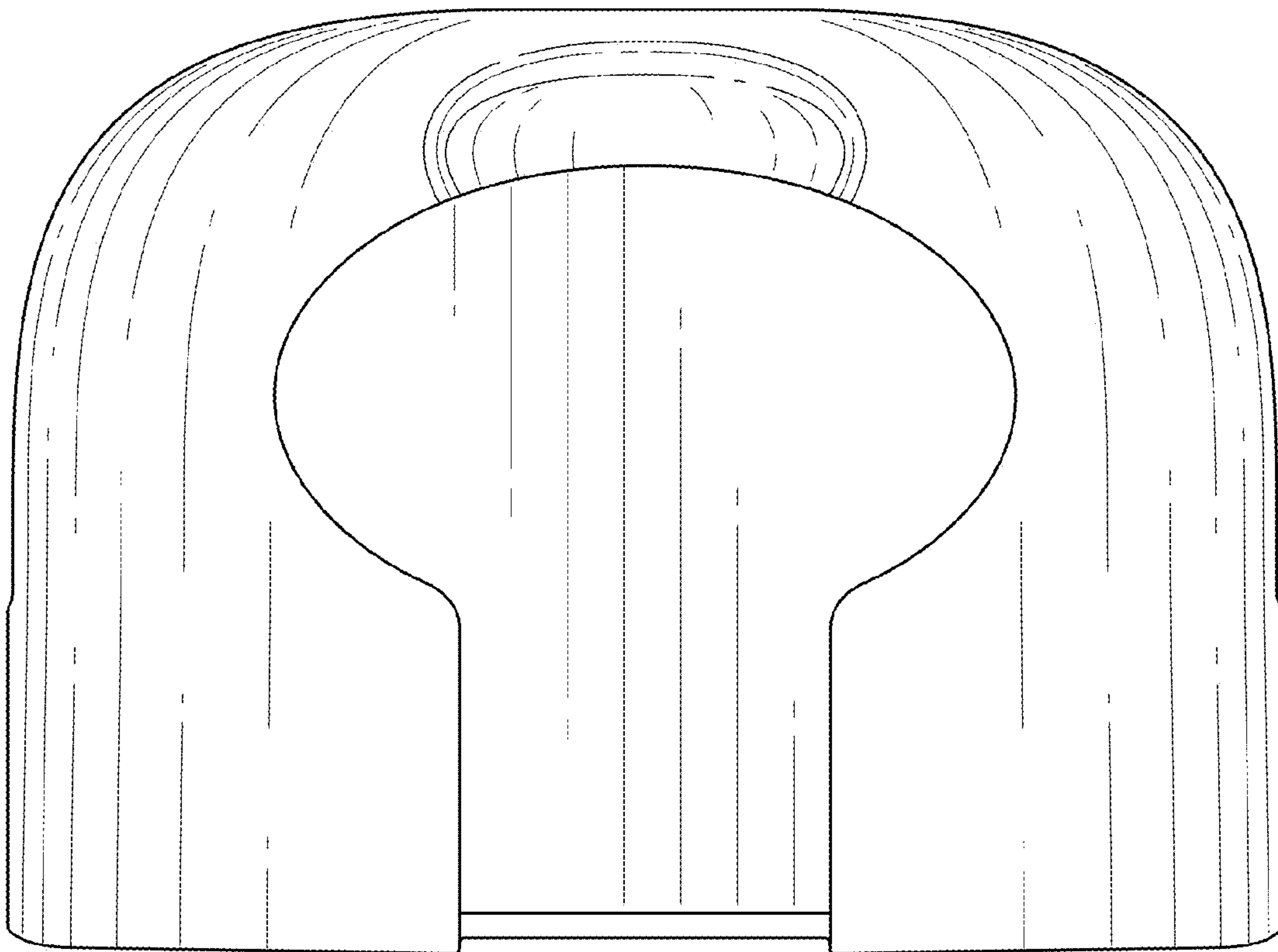


FIG. 3

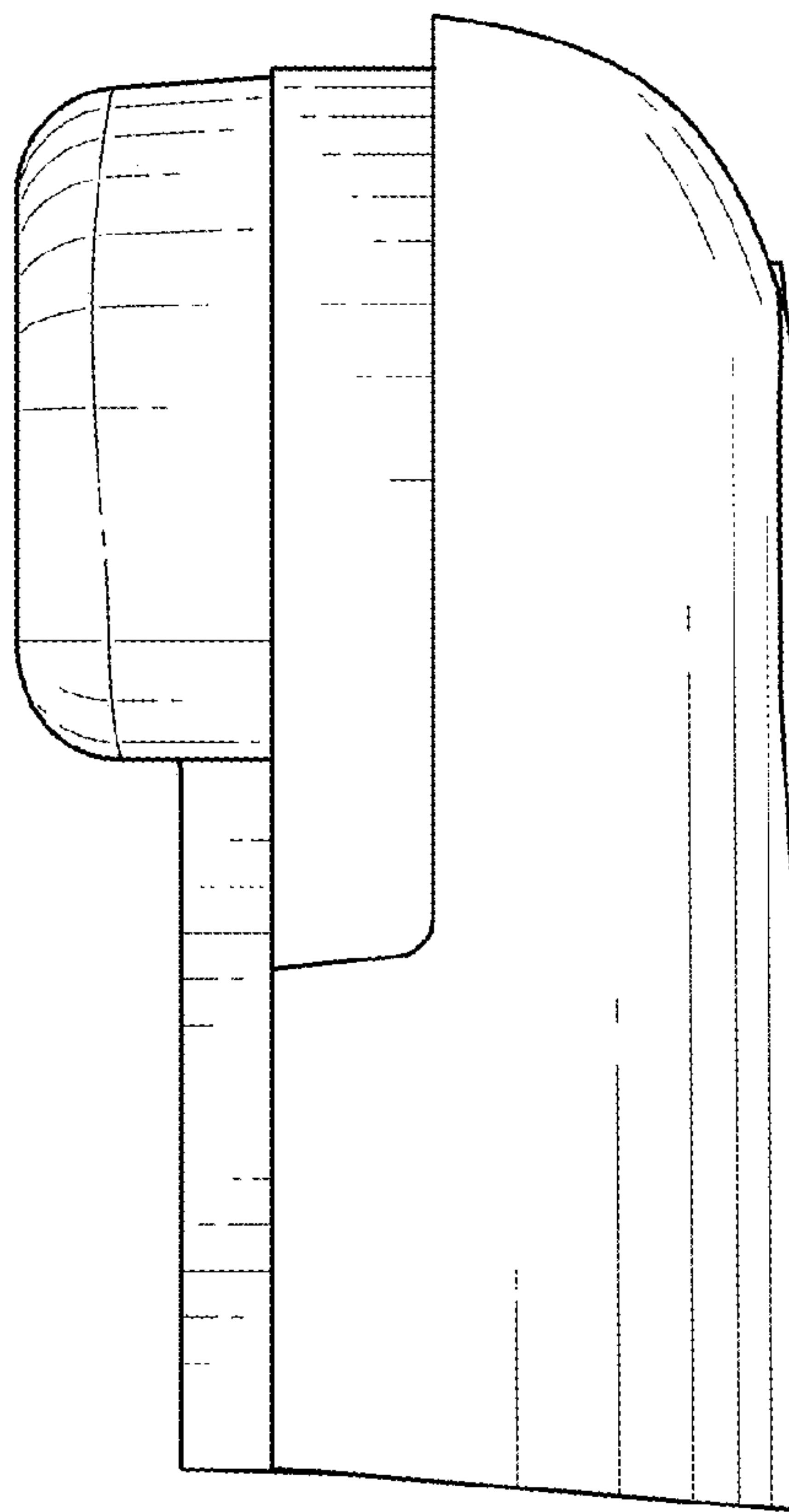


FIG. 4

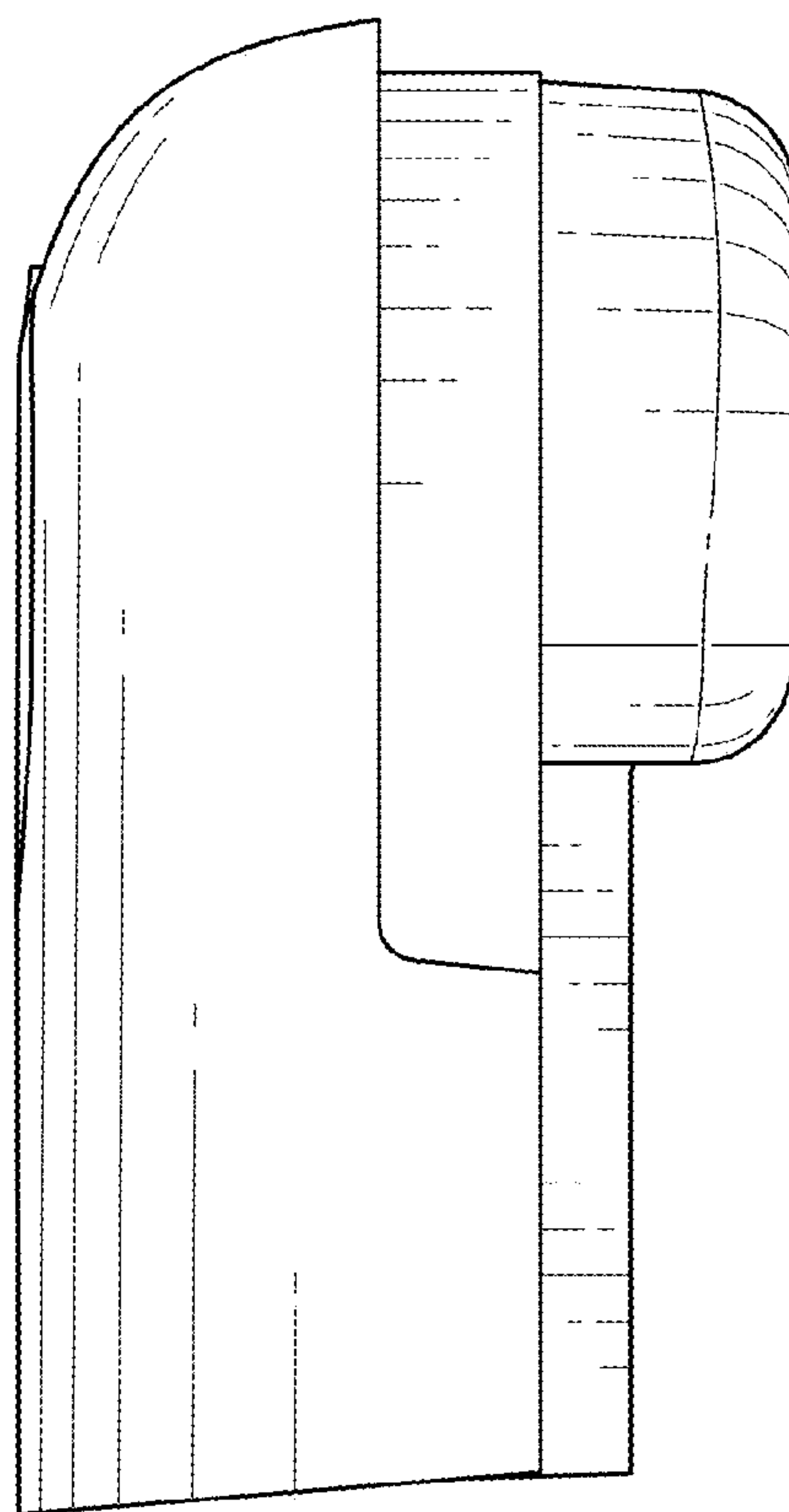


FIG. 5

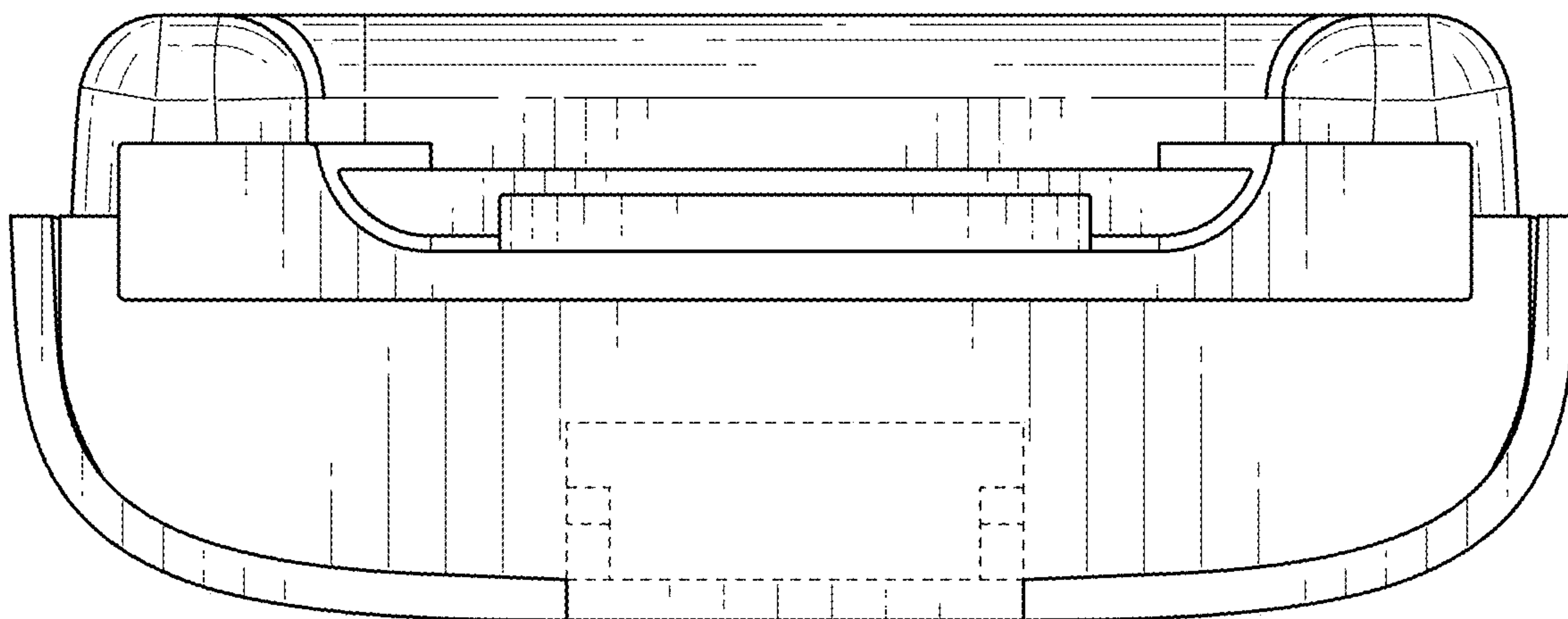


FIG. 6

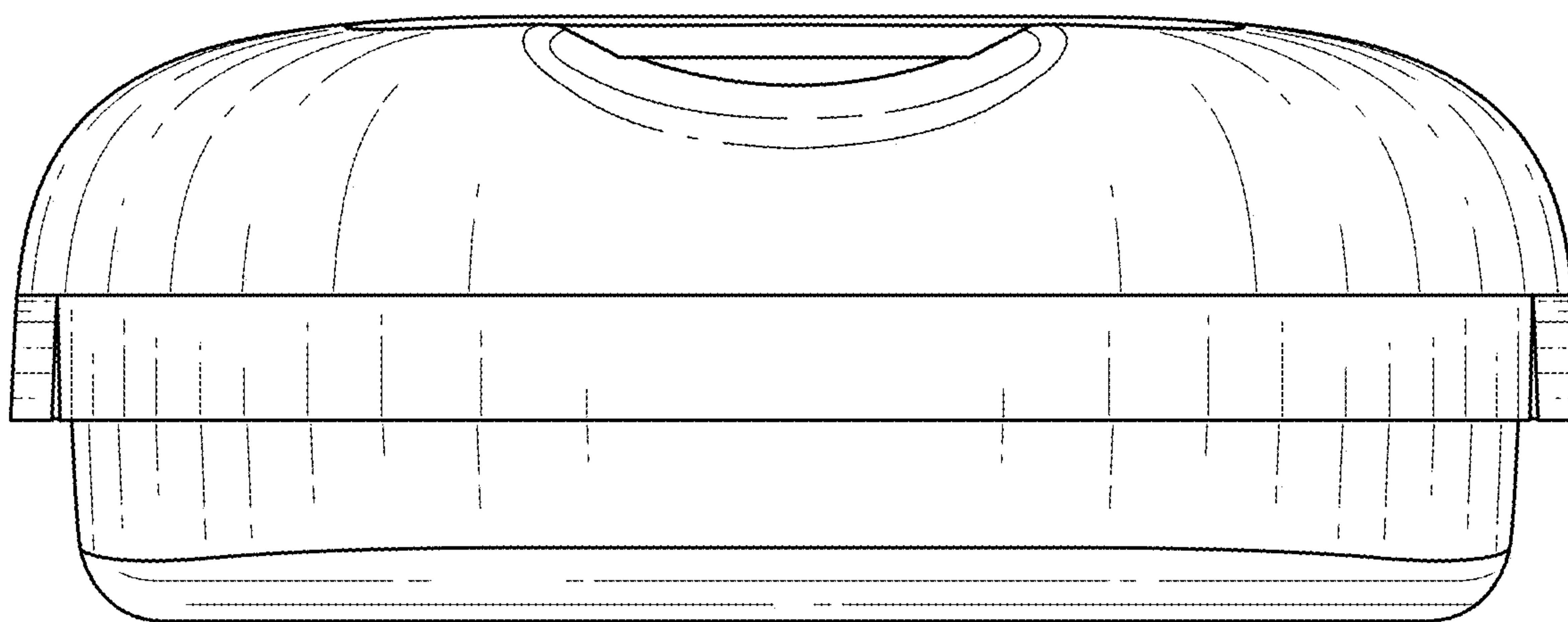


FIG. 7