



US00D877344S

(12) **United States Design Patent**
Munger

(10) **Patent No.:** **US D877,344 S**

(45) **Date of Patent:** **** Mar. 3, 2020**

- (54) **MATERNAL BAND PROCESSING UNIT**
- (71) Applicant: **OWLET BABY CARE, INC.**, Lehi, UT (US)
- (72) Inventor: **Seth Ter Munger**, Springville, UT (US)
- (73) Assignee: **Owlet Baby Care, Inc.**, Lehi, UT (US)
- (**) Term: **15 Years**

- 9,579,055 B1 2/2017 Rood et al.
- 9,585,614 B2 3/2017 Dugan
- D796,355 S * 9/2017 Cho D10/70
- 9,763,583 B2 9/2017 Oz et al.
- 9,763,616 B2 9/2017 Dugan
- D806,254 S * 12/2017 Im D24/186
- D824,034 S * 7/2018 Pushpala D24/186
- D830,555 S * 10/2018 Lin D24/167
- D830,856 S * 10/2018 Golnik D10/30
- D842,854 S * 3/2019 Lee D14/344

(Continued)

- (21) Appl. No.: **29/644,523**
- (22) Filed: **Apr. 18, 2018**
- (51) **LOC (12) Cl.** **24-01**
- (52) **U.S. Cl.**
USPC **D24/186**
- (58) **Field of Classification Search**
USPC D24/107, 167, 186, 187; D10/30, 31, 32,
D10/38, 70, 75, 98, 97; D14/344
CPC A61B 5/6801; A61B 5/681; A61B 5/6819;
A61B 5/6823; A61B 5/6824; A61B
5/02405; A61B 5/02427; A61B 5/02438;
A61B 2560/0412; A61B 2560/0418;
A61B 2562/162; A61B 2562/164; A61B
2562/0295; A61B 2562/18; A61B 5/0402;
A61B 5/0404; A61B 5/0011; A61B
5/02411; A61B 5/0444; A61B 5/4362;
A61B 2560/0462
See application file for complete search history.

FOREIGN PATENT DOCUMENTS

- CN 103260528 8/2013
- CN 104382585 3/2015

(Continued)

Primary Examiner — Anhdao Doan

(74) *Attorney, Agent, or Firm* — Workman Nydegger

(57) **CLAIM**

The ornamental design for a maternal band processing unit, as shown and described.

DESCRIPTION

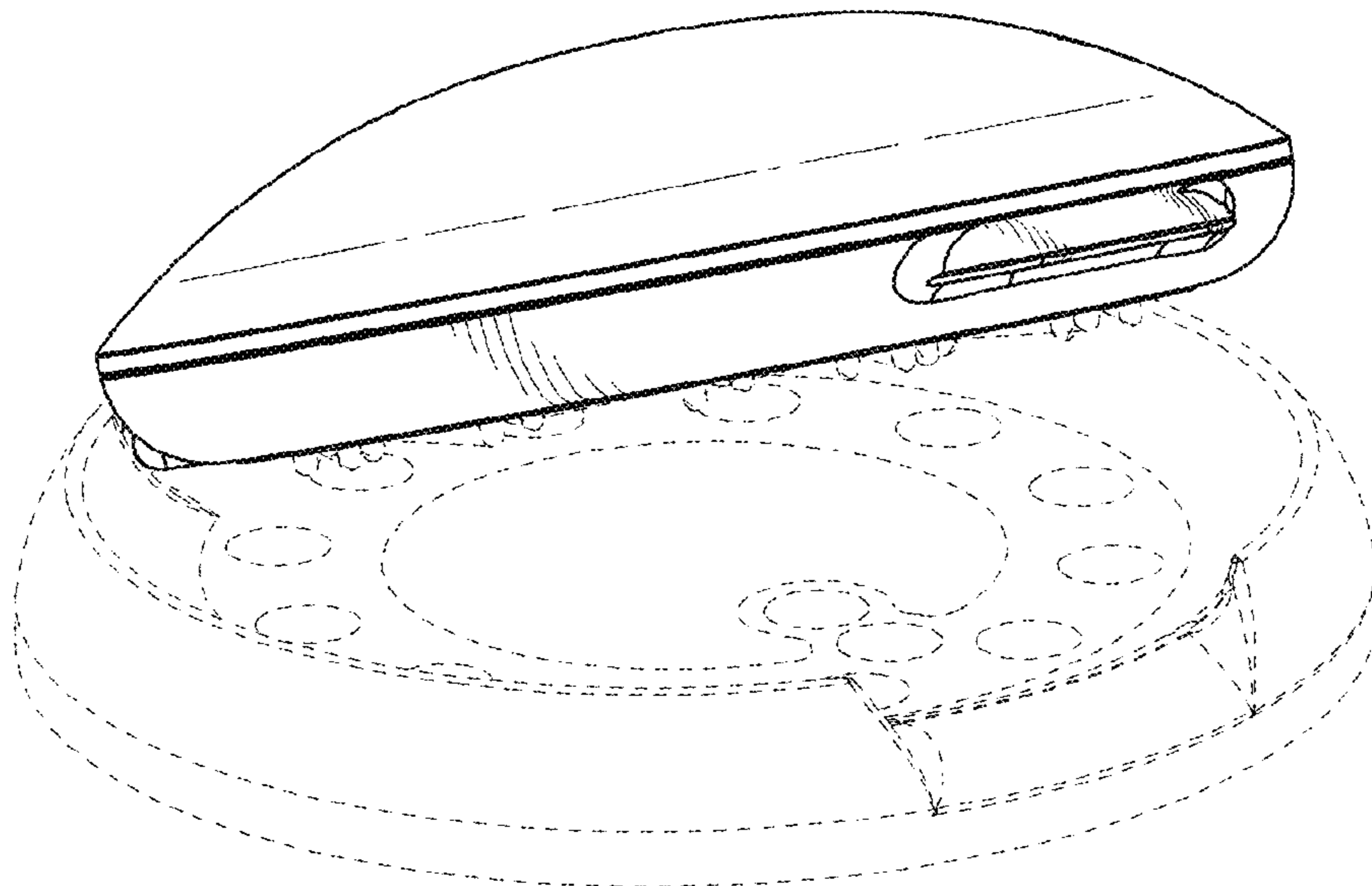
FIG. 1 is a perspective view of the maternal band processing unit showing our new ornamental design.
 FIG. 2 is another perspective view thereof.
 FIG. 3 is a front elevation view thereof.
 FIG. 4 is a back elevation view thereof.
 FIG. 5 is a top plan view thereof.
 FIG. 6 is a bottom plan view thereof.
 FIG. 7 is a left elevational view thereof; and,
 FIG. 8 is a right elevational view thereof.
 The broken lines showing on the base in FIGS. 1 and 2 represent an environment and all other broken lines illustrate portions of the maternal band processing unit that form no part of the claimed design. The broken lines form no part of the claimed design.

1 Claim, 3 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,781,200 A 11/1988 Baker
- D599,909 S * 9/2009 Rinott D24/186
- 7,949,389 B2 5/2011 Wolfberg et al.
- 8,075,500 B2 * 12/2011 Berger A61B 5/02411
600/588
- D739,776 S * 9/2015 Vu D10/103
- D770,625 S * 11/2016 Aytakin D24/167
- D779,457 S * 2/2017 Donovan D14/216



(56)

References Cited

U.S. PATENT DOCUMENTS

| | | | |
|-------------------|---------|------------------|--------------|
| D846,748 S * | 4/2019 | Benedikter | D24/186 |
| 2007/0260155 A1 * | 11/2007 | Rapoport | A61B 5/0444 |
| | | | 600/528 |
| 2010/0191154 A1 * | 7/2010 | Berger | A61B 5/02411 |
| | | | 600/595 |
| 2013/0102856 A1 | 4/2013 | Wolfberg | |
| 2013/0197362 A1 | 8/2013 | Mittal et al. | |
| 2016/0183873 A1 | 6/2016 | Lin et al. | |
| 2016/0317091 A1 | 11/2016 | Olukoya et al. | |
| 2017/0127995 A1 | 5/2017 | Hyde et al. | |
| 2017/0127996 A1 | 5/2017 | Hyde et al. | |
| 2017/0127997 A1 | 5/2017 | Hyde et al. | |
| 2017/0265799 A1 | 9/2017 | Du et al. | |

FOREIGN PATENT DOCUMENTS

| | | | |
|----|--------------|---|---------|
| CN | 105997059 | | 10/2016 |
| CN | 106999100 | | 8/2017 |
| CN | 201730353108 | * | 8/2017 |
| CN | 107260177 | | 10/2017 |
| WO | 2009146181 | | 12/2009 |
| WO | 2012052904 | | 4/2012 |
| WO | 2013059267 | | 4/2013 |
| WO | 2014002823 | | 1/2014 |
| WO | 2016067276 | | 5/2016 |
| WO | 2017093251 | | 6/2017 |
| WO | 2017102566 | | 6/2017 |
| WO | 2017142277 | | 8/2017 |

* cited by examiner

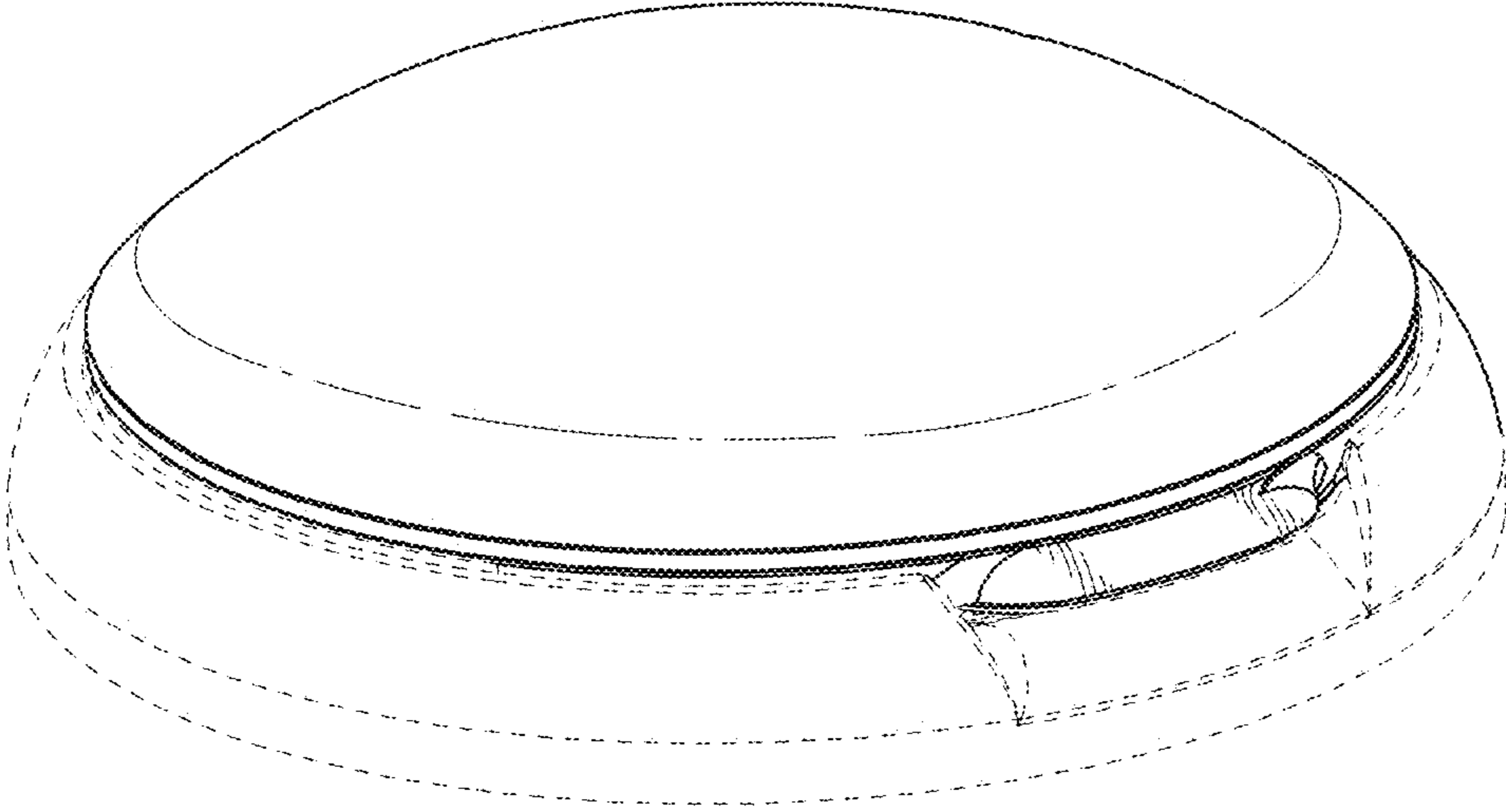


FIG. 1

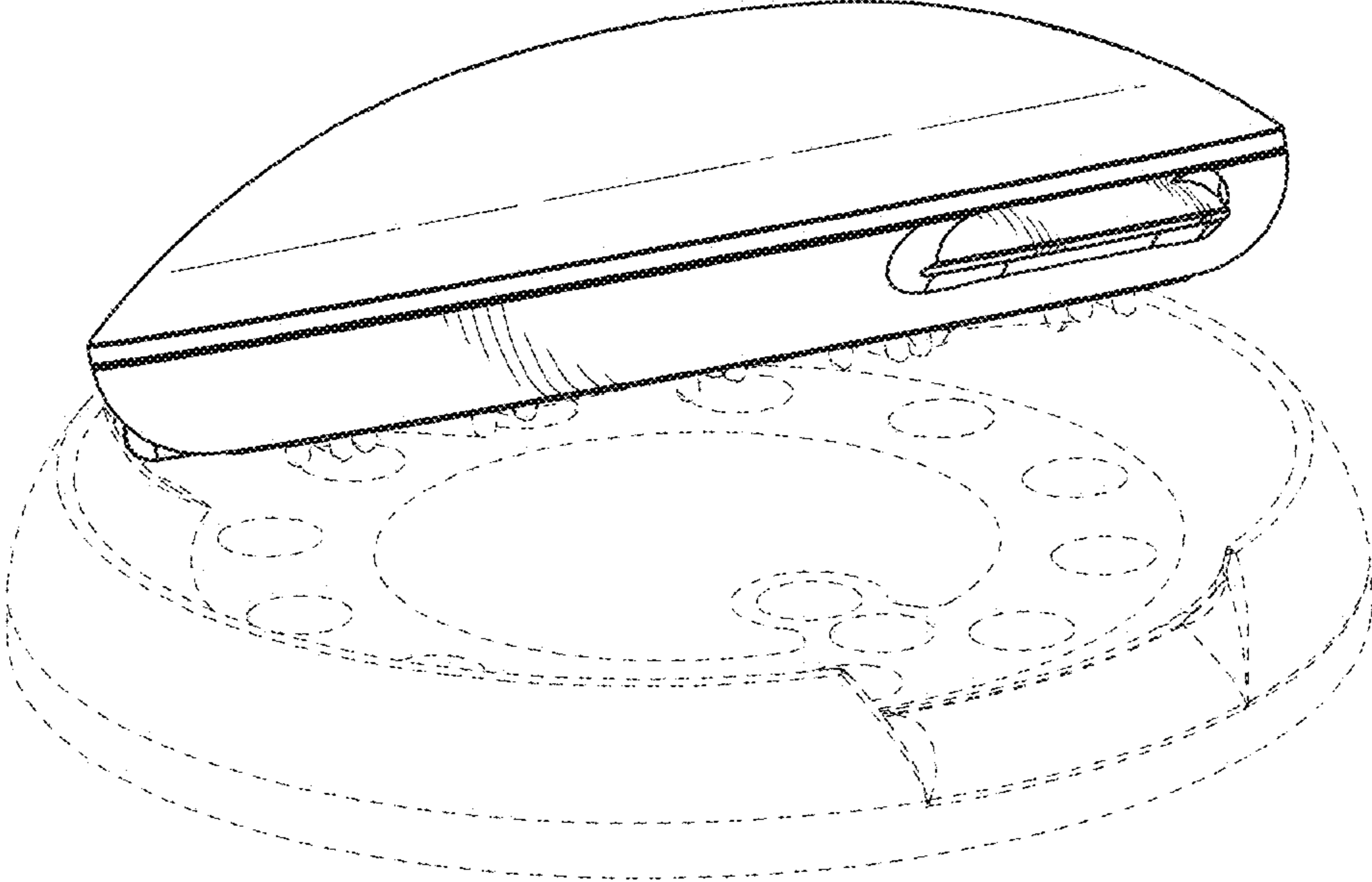


FIG. 2

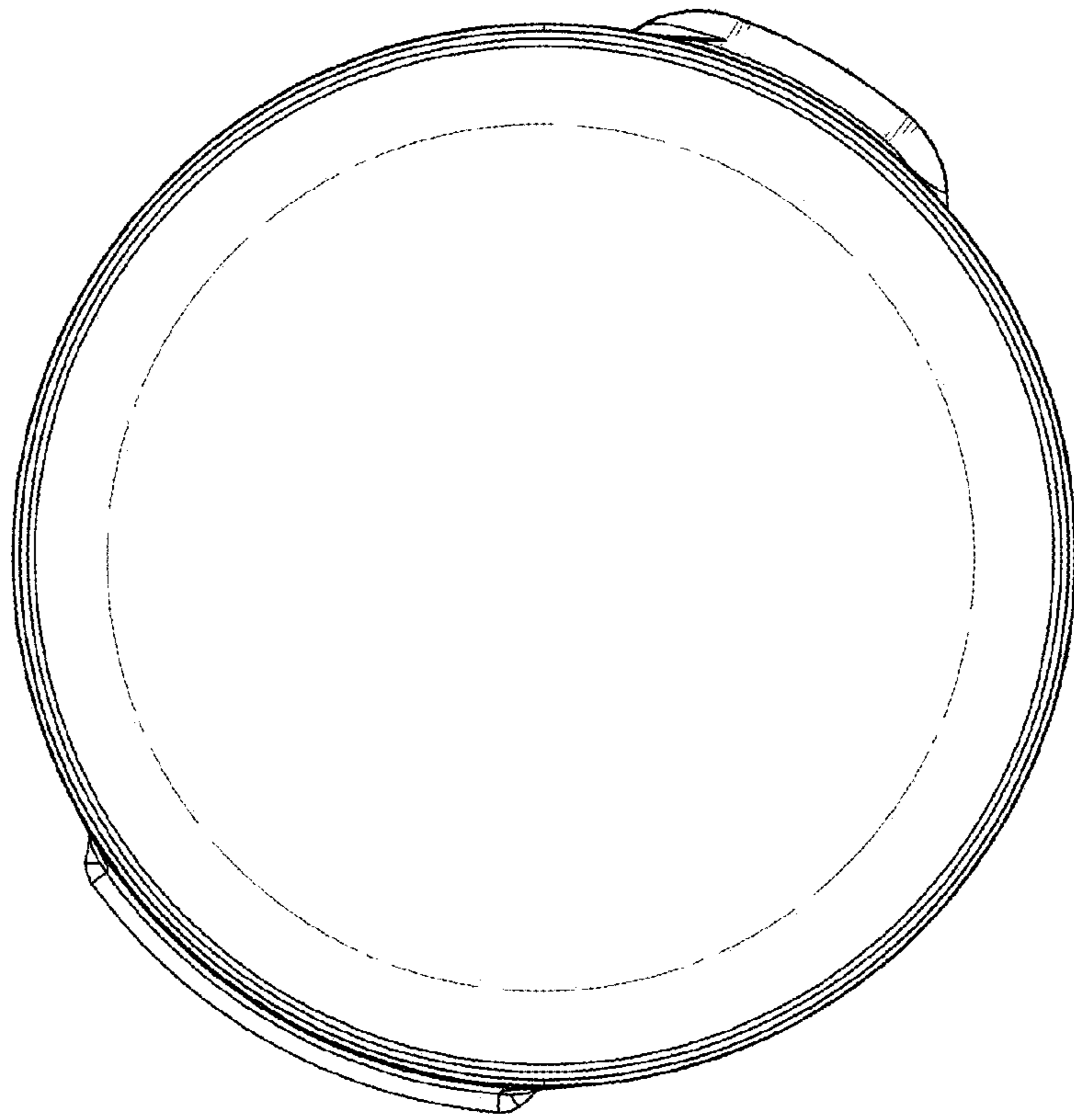


FIG. 3

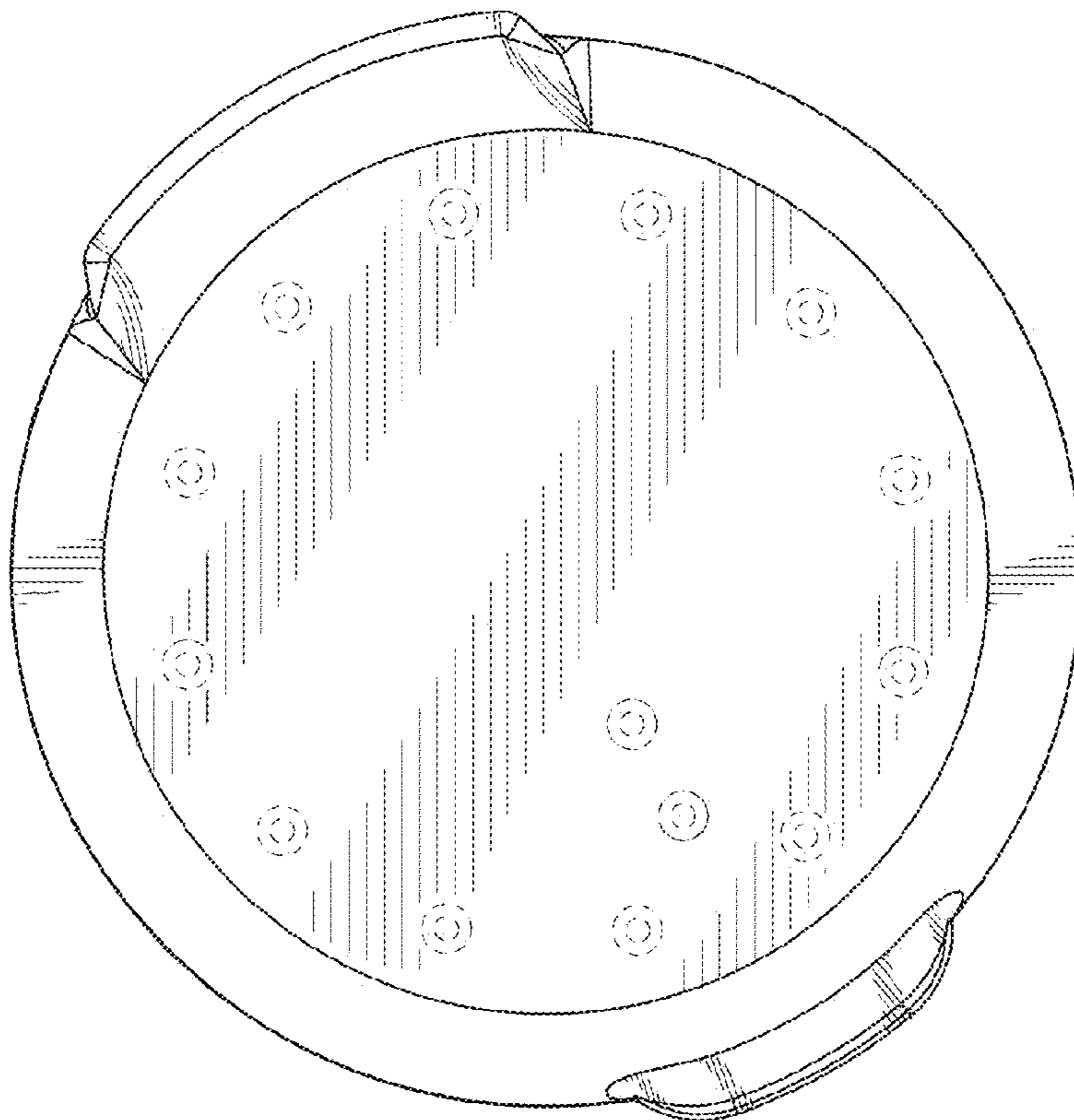


FIG. 4

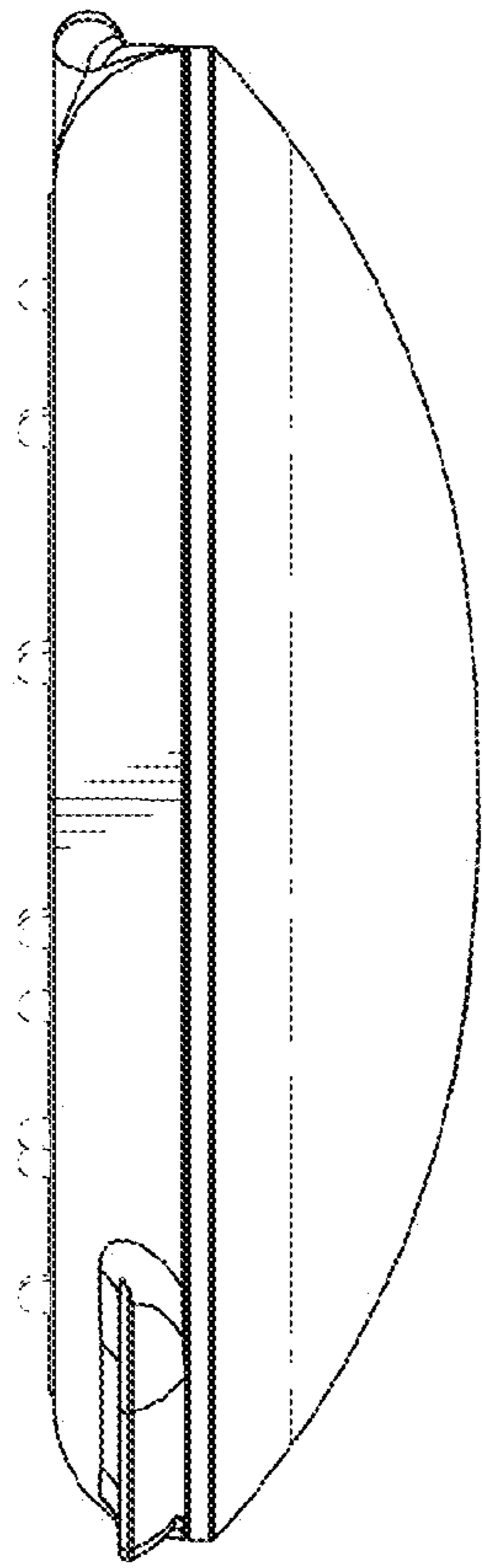


FIG. 5

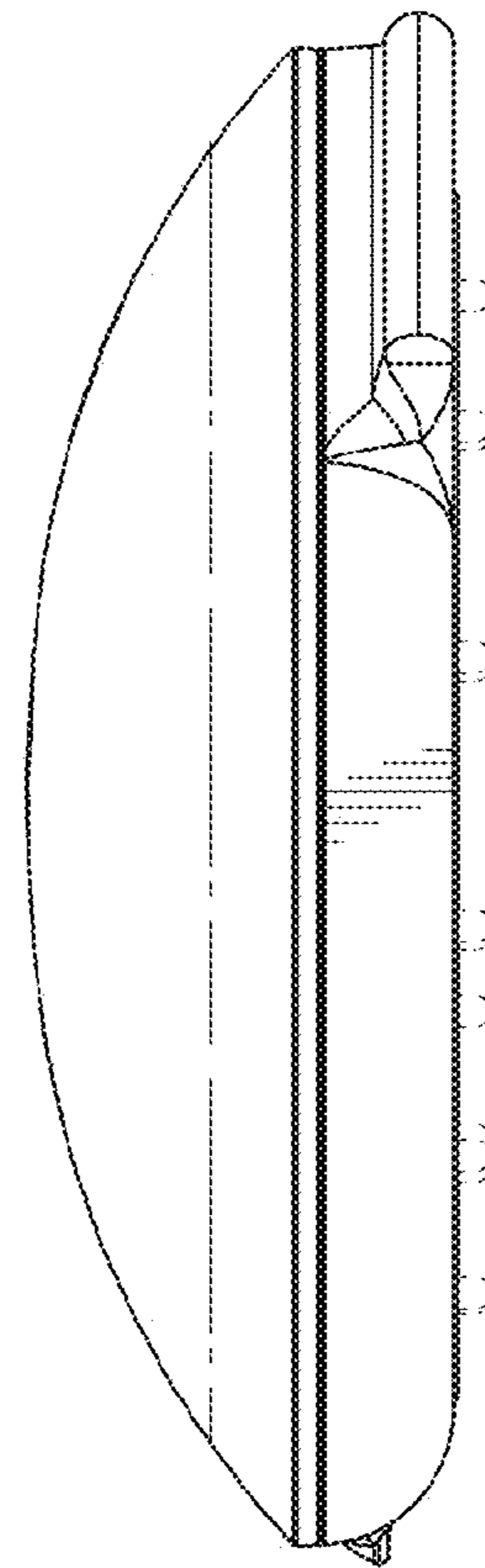


FIG. 6

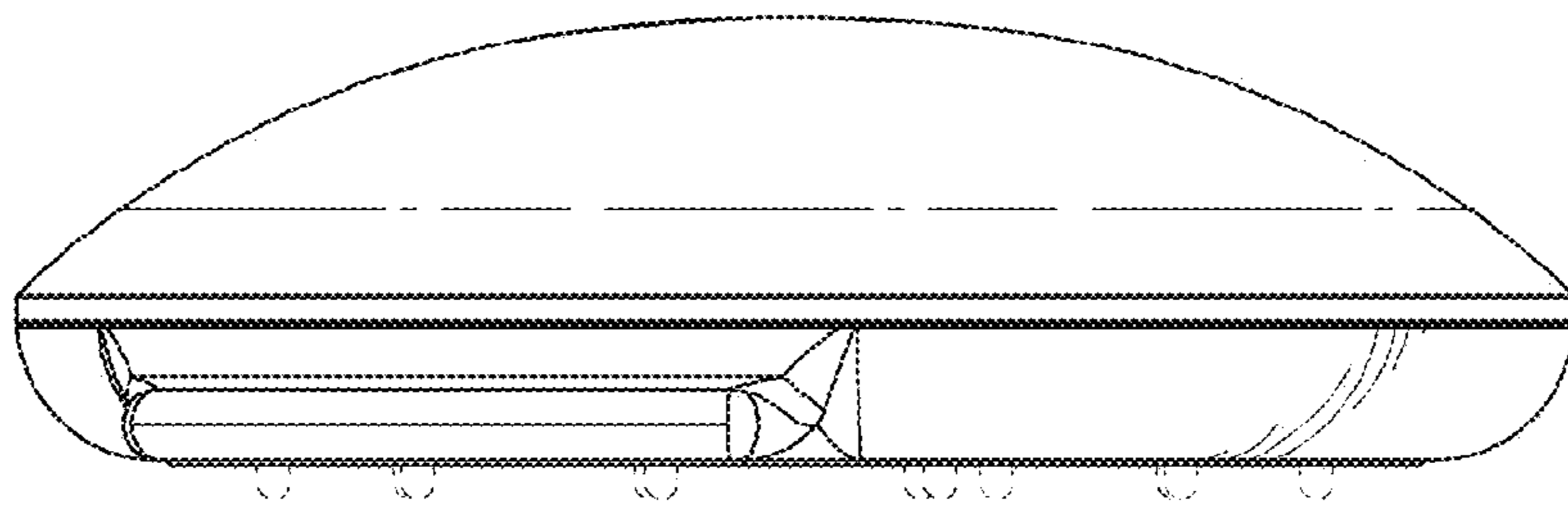


FIG. 7

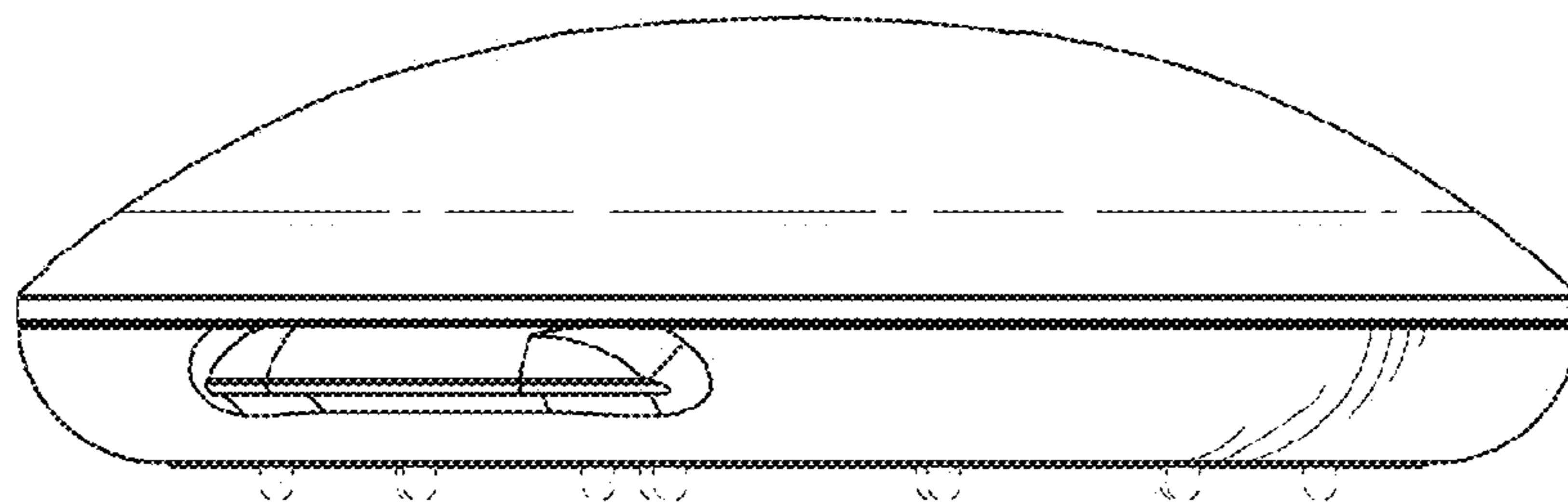


FIG. 8