



US00D922984S

(12) **United States Design Patent**
Li et al.

(10) **Patent No.:** **US D922,984 S**
(45) **Date of Patent:** **** Jun. 22, 2021**

- (54) **EARBUD**
- (71) Applicant: **Bose Corporation**, Framingham, MA (US)
- (72) Inventors: **Yutian Li**, Newton, MA (US); **Robert A. Warden**, Southborough, MA (US)
- (73) Assignee: **Bose Corporation**, Framingham, MA (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/710,809**
- (22) Filed: **Oct. 25, 2019**
- (51) **LOC (13) Cl.** **14-01**
- (52) **U.S. Cl.**
USPC **D14/223**
- (58) **Field of Classification Search**
USPC D14/223; D24/174; 128/864, 865, 866; 381/380, 381, 328, 322; 455/90.3, 575.1, 455/569.1
CPC H04R 1/10; H04R 25/00; H04R 25/02; H04R 1/1066; H04R 1/1016; H04R 5/033; H04R 5/0335; H04R 1/105; H04R 1/1083; H04R 1/1091
See application file for complete search history.

- D481,709 S * 11/2003 Solderits D14/223
- 6,799,018 B1 9/2004 Lam
- D505,411 S * 5/2005 Sakai D14/192
- 7,092,543 B1 * 8/2006 Mahoney H04R 25/65 381/328
- 7,113,611 B2 * 9/2006 Leedom H04R 25/65 381/322

(Continued)

FOREIGN PATENT DOCUMENTS

- JP D1671026 * 10/2019
- JP D1672166 * 10/2020
- JP D1676304 * 12/2020

OTHER PUBLICATIONS

Japanese Office Action dated Jun. 7, 2017 for Japanese Design Application No. 2017-001769.

Primary Examiner — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — Bose Corporation

(57) **CLAIM**

The ornamental design for an earbud, substantially as shown and described.

DESCRIPTION

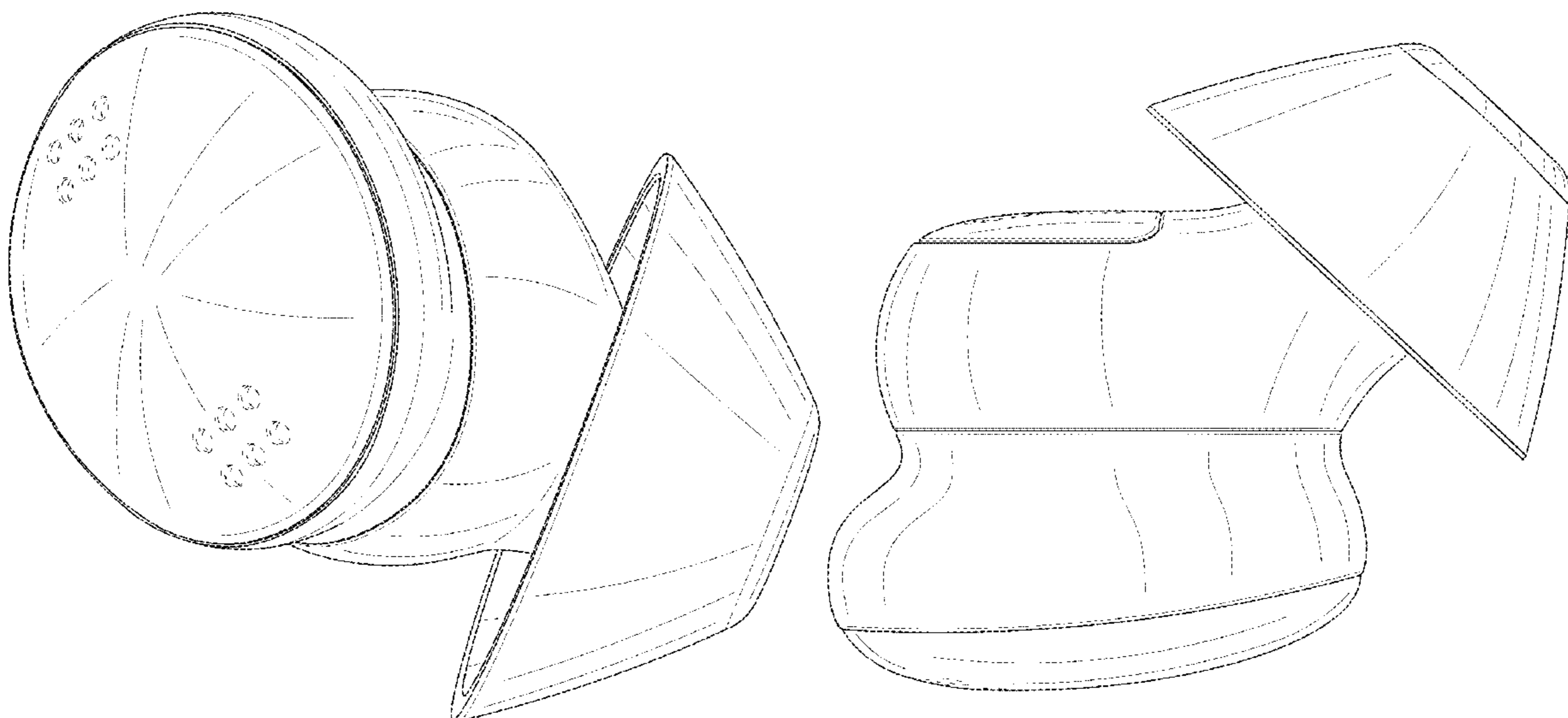
FIG. 1 is a perspective view of an earbud as seen from the left side and front, “left” being the observer’s point of view, and “front” being towards the observer, showing the new design; the opposite earbud is a mirror image;
 FIG. 2 is front view thereof;
 FIG. 3 is a right side view thereof;
 FIG. 4 is a back view thereof;
 FIG. 5 is a left side view thereof;
 FIG. 6 is a top end view thereof; and,
 FIG. 7 is a bottom end view thereof.
 The dotted line portions of the drawings represent environmental structure only and do not form part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 2,719,523 A * 10/1955 Von Gierke A61F 11/10 128/864
- 4,550,227 A * 10/1985 Topholm H04R 25/60 381/324
- D287,280 S * 12/1986 Topholm D24/174
- D287,764 S * 1/1987 Topholm D24/174
- D287,765 S * 1/1987 Topholm D24/174
- 5,654,530 A * 8/1997 Sauer H04R 25/652 181/130
- 6,010,216 A 1/2000 Jesiek
- 6,233,345 B1 5/2001 Urwyler

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

| | | | | | | | | |
|----------------|---------|------------------|-------|------------------------|-------------------|---------|------------------|-------------------------------|
| D554,756 S * | 11/2007 | Sjursen | ..... | D24/174 | D758,339 S | 6/2016 | Lee et al. | |
| 7,356,362 B2 * | 4/2008 | Chang | ..... | H04R 1/1033 379/430 | D758,355 S | 6/2016 | Lee et al. | |
| D584,284 S | 1/2009 | Carr et al. | | | D758,594 S | 6/2016 | Winters | |
| D587,681 S * | 3/2009 | Yanai | ..... | D14/205 | D763,224 S | 8/2016 | Silvestri et al. | |
| D588,111 S | 3/2009 | Komiyama | | | D763,227 S | 8/2016 | Lee et al. | |
| D593,067 S | 5/2009 | Millora et al. | | | D763,822 S | 8/2016 | Lee et al. | |
| D593,538 S | 6/2009 | Chon et al. | | | D764,436 S | 8/2016 | Dryden et al. | |
| D594,442 S | 6/2009 | Chon et al. | | | D766,210 S | 9/2016 | Graylin et al. | |
| D603,380 S * | 11/2009 | Hutchieson | ..... | D14/223 | D766,869 S | 9/2016 | Lee et al. | |
| 7,920,902 B2 | 4/2011 | Carroll | | | 9,445,181 B1 | 9/2016 | Atwater | |
| D637,999 S * | 5/2011 | Brunner | ..... | D14/205 | D768,600 S | 10/2016 | Chen | |
| D641,737 S | 7/2011 | Krauss et al. | | | D771,011 S | 11/2016 | Ott et al. | |
| D642,163 S * | 7/2011 | Lee | ..... | D14/223 | D771,013 S | 11/2016 | Yang | |
| 8,009,853 B2 | 8/2011 | Ito et al. | | | D771,587 S | 11/2016 | Iwane et al. | |
| D645,458 S | 9/2011 | Silvestri et al. | | | D772,194 S | 11/2016 | Choe et al. | |
| 8,073,181 B2 | 12/2011 | Bakalos et al. | | | D772,195 S | 11/2016 | Lee et al. | |
| D652,817 S * | 1/2012 | Lee | ..... | D14/205 | D772,196 S | 11/2016 | Choi et al. | |
| D663,714 S | 7/2012 | Kang et al. | | | D772,843 S | 11/2016 | Lee et al. | |
| D666,581 S * | 9/2012 | Perez | ..... | D14/223 | D772,845 S | 11/2016 | Lim et al. | |
| 8,311,253 B2 | 11/2012 | Silvestri et al. | | | D773,439 S * | 12/2016 | Walker | D14/223 |
| D678,858 S | 3/2013 | Feng et al. | | | D774,017 S | 12/2016 | Ahn et al. | |
| 8,406,448 B2 * | 3/2013 | Lin | ..... | H04R 1/1091 381/380 | D777,710 S * | 1/2017 | Palmborg | D14/223 |
| D686,191 S | 7/2013 | Schaal et al. | | | D780,157 S | 2/2017 | Uggla | |
| D695,265 S | 12/2013 | Schaal et al. | | | D781,269 S * | 3/2017 | Choe | D14/223 |
| D695,266 S | 12/2013 | Schaal et al. | | | D786,216 S | 5/2017 | Silva et al. | |
| D695,267 S | 12/2013 | Schaal et al. | | | D796,473 S | 9/2017 | Kim et al. | |
| D699,226 S * | 2/2014 | Yoon | ..... | D14/223 | D800,097 S * | 10/2017 | Chen | D14/223 |
| D699,703 S | 2/2014 | Schaal et al. | | | D806,879 S * | 1/2018 | Horbinski | D24/174 |
| D703,634 S | 4/2014 | Han | | | D813,205 S * | 3/2018 | Palmborg | D14/223 |
| 8,737,669 B2 | 5/2014 | Monahan et al. | | | D818,989 S | 5/2018 | Silva et al. | |
| D715,253 S | 10/2014 | Lee et al. | | | D822,646 S | 7/2018 | Dang et al. | |
| D716,759 S | 11/2014 | Ha et al. | | | D841,627 S * | 2/2019 | Wen | D14/223 |
| D721,678 S * | 1/2015 | Thomas | ..... | D14/223 | D845,932 S * | 4/2019 | Lu | D14/223 |
| 8,983,108 B2 * | 3/2015 | Ho | ..... | H04R 1/1016 381/380 | D855,589 S * | 8/2019 | Madsen | D14/223 |
| D727,873 S | 4/2015 | Schaal et al. | | | D875,714 S * | 2/2020 | Kim | D14/205 |
| D728,107 S * | 4/2015 | Torres Martin | ..... | D24/174 | D905,664 S * | 12/2020 | He | D14/223 |
| D730,867 S | 6/2015 | Park et al. | | | D909,995 S * | 2/2021 | Cai | D14/223 |
| D731,999 S | 6/2015 | Cepress et al. | | | 2007/0104333 A1 | 5/2007 | Kuo | |
| 9,148,714 B2 * | 9/2015 | Zhao | ..... | H04R 1/021 | 2009/0041284 A1 | 2/2009 | Tanaka et al. | |
| D756,958 S | 5/2016 | Lee et al. | | | 2009/0274335 A1 | 11/2009 | Cheung et al. | |
| D756,959 S | 5/2016 | Lee et al. | | | 2011/0170702 A1 | 7/2011 | Bays | |
| | | | | | 2012/0163617 A1 | 6/2012 | Silvestri et al. | |
| | | | | | 2014/0176699 A1 * | 6/2014 | Wang | H04N 5/23238 348/118 |
| | | | | | 2014/0185837 A1 | 7/2014 | Kunimoto et al. | |
| | | | | | 2016/0037248 A1 | 2/2016 | Cheng | |
| | | | | | 2016/0073186 A1 | 3/2016 | Searl et al. | |

* cited by examiner

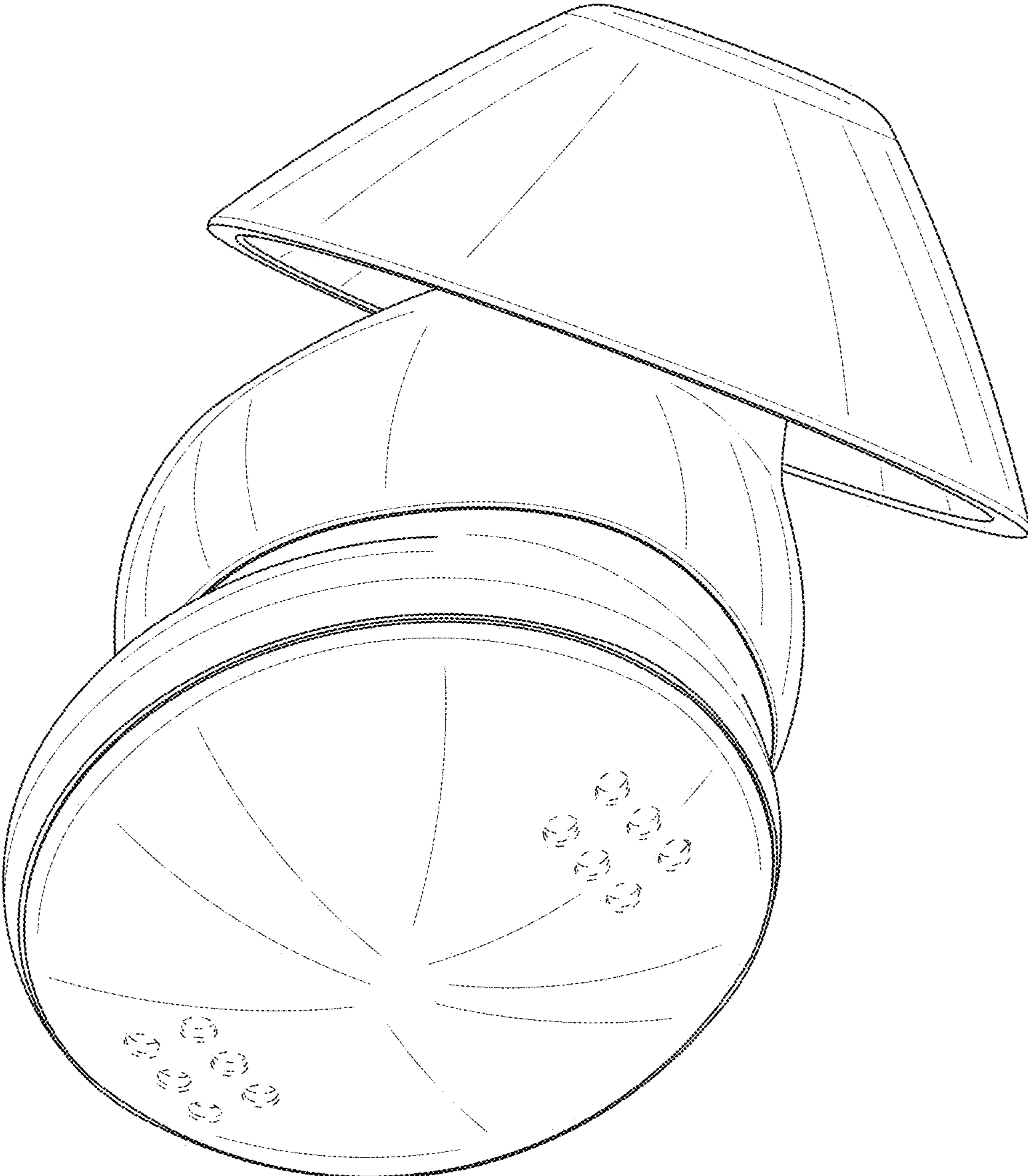


FIG. 1

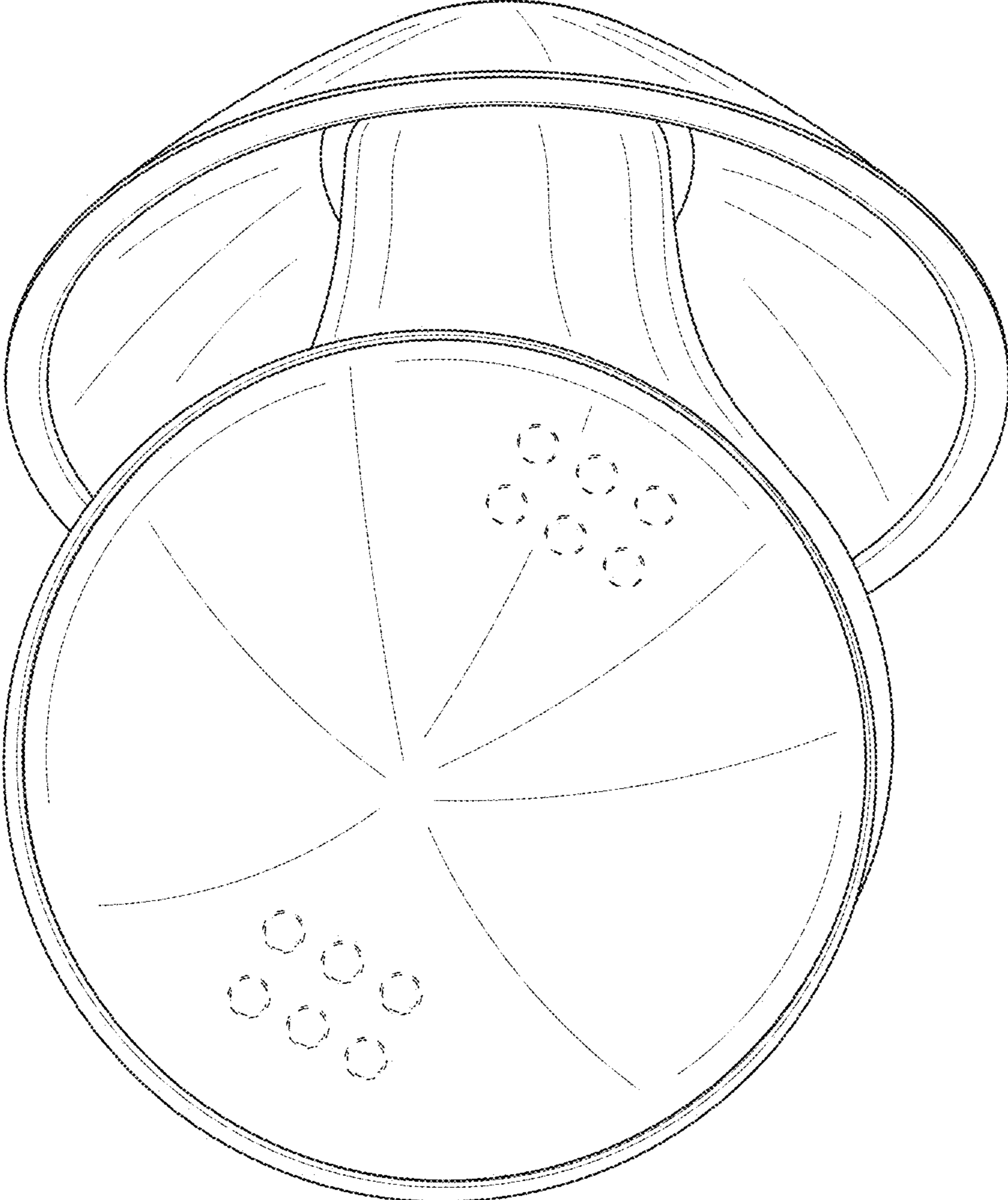


FIG. 2

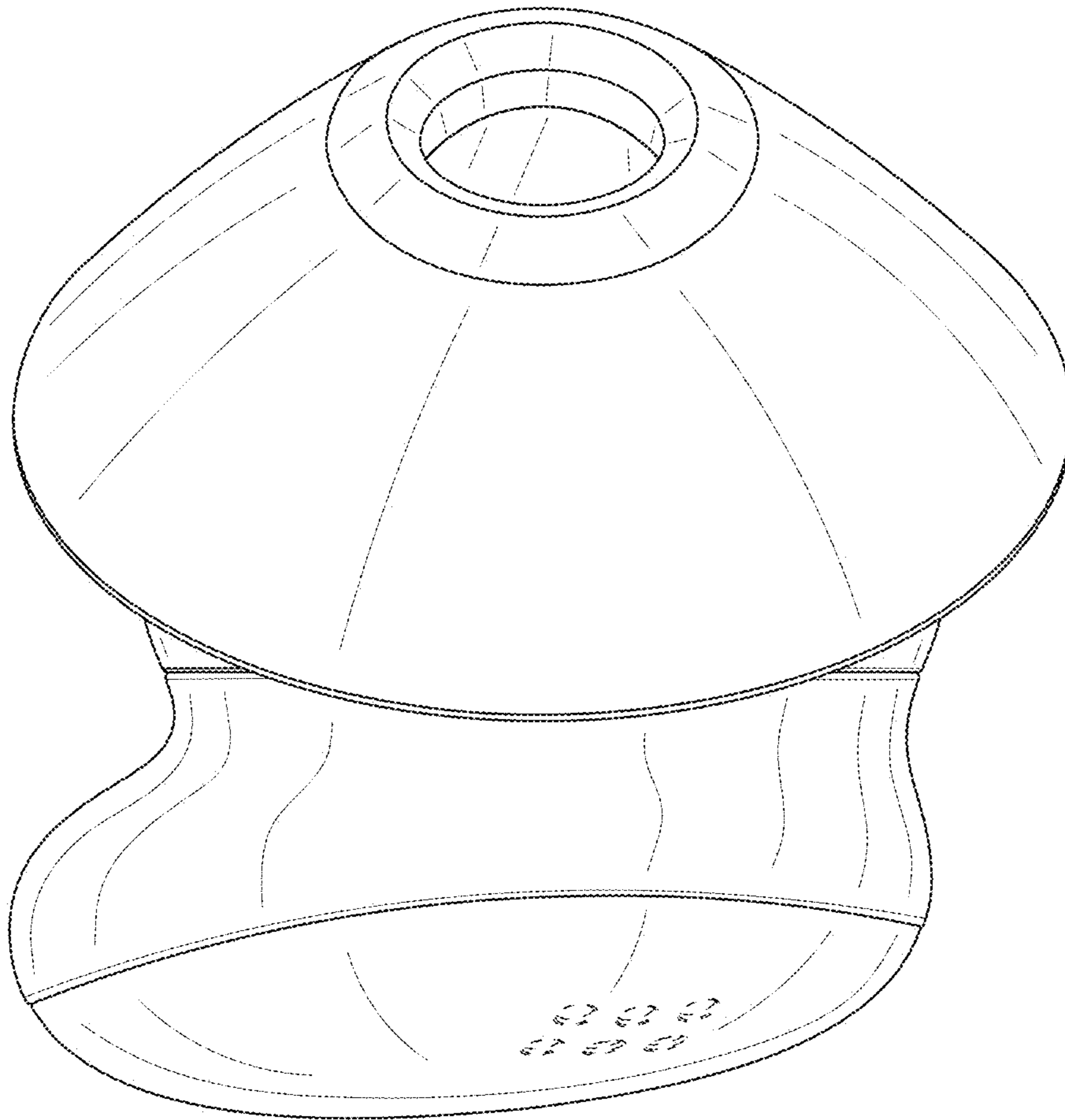


FIG. 3

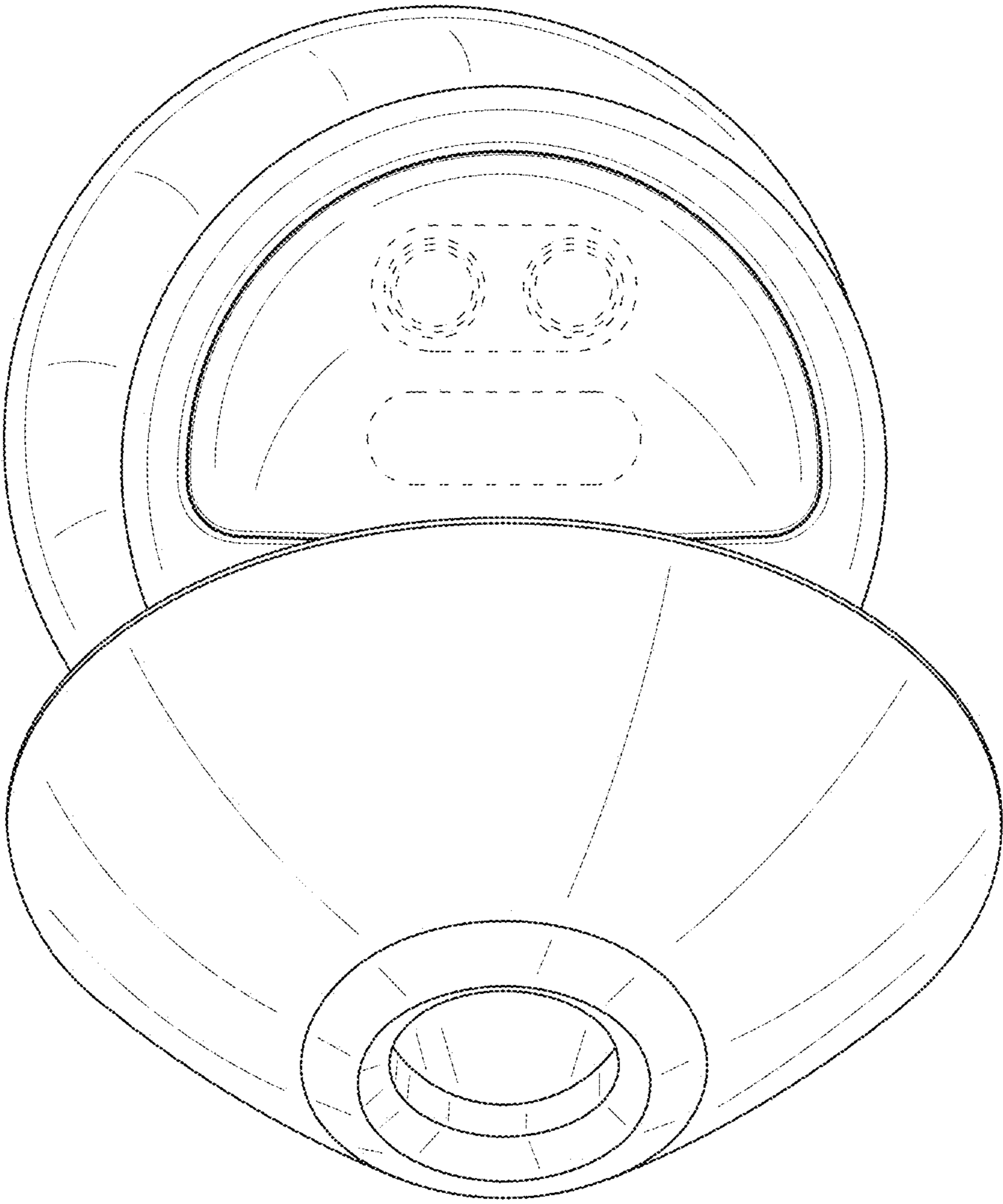


FIG. 4

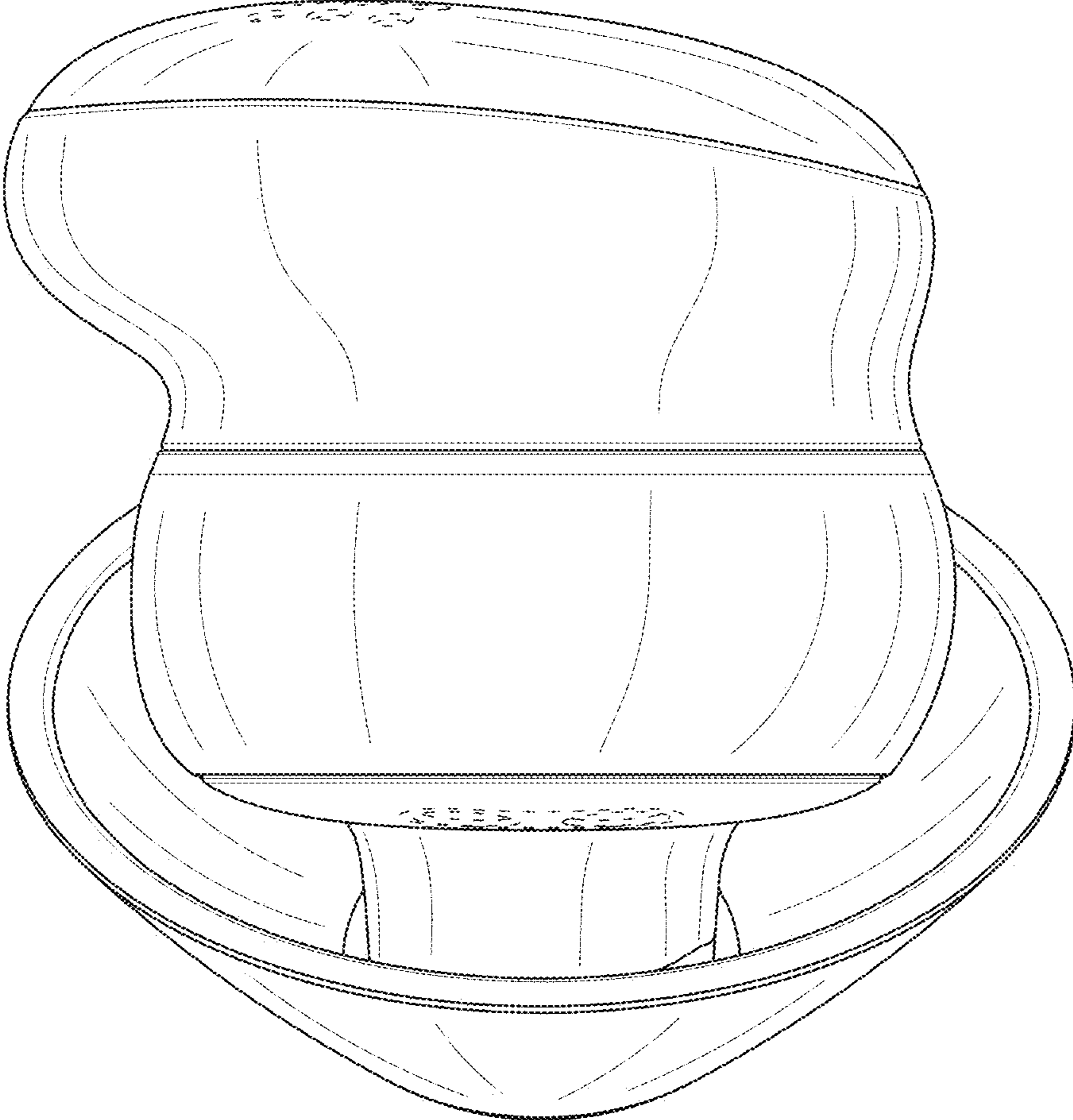


FIG. 5

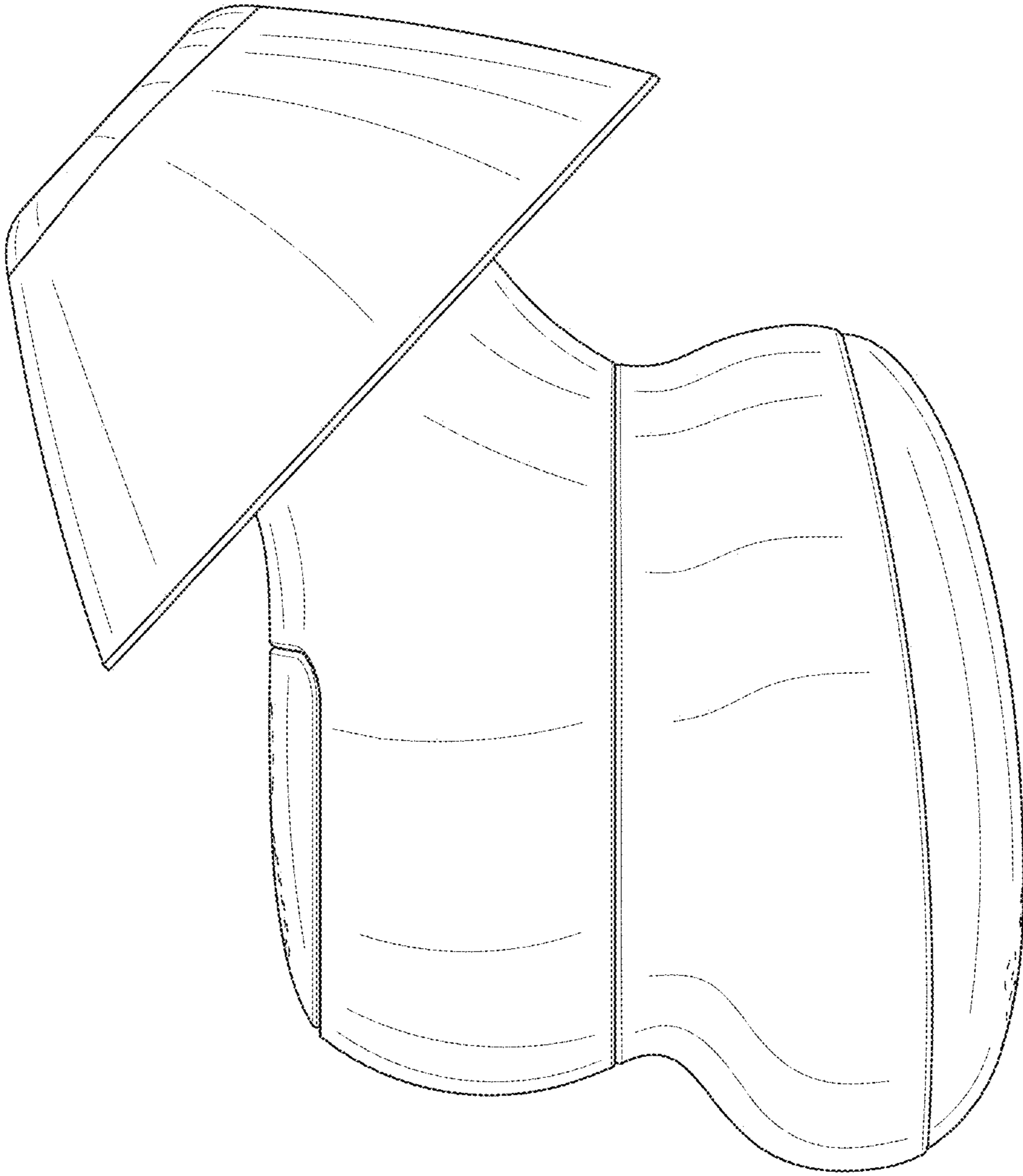


FIG. 6

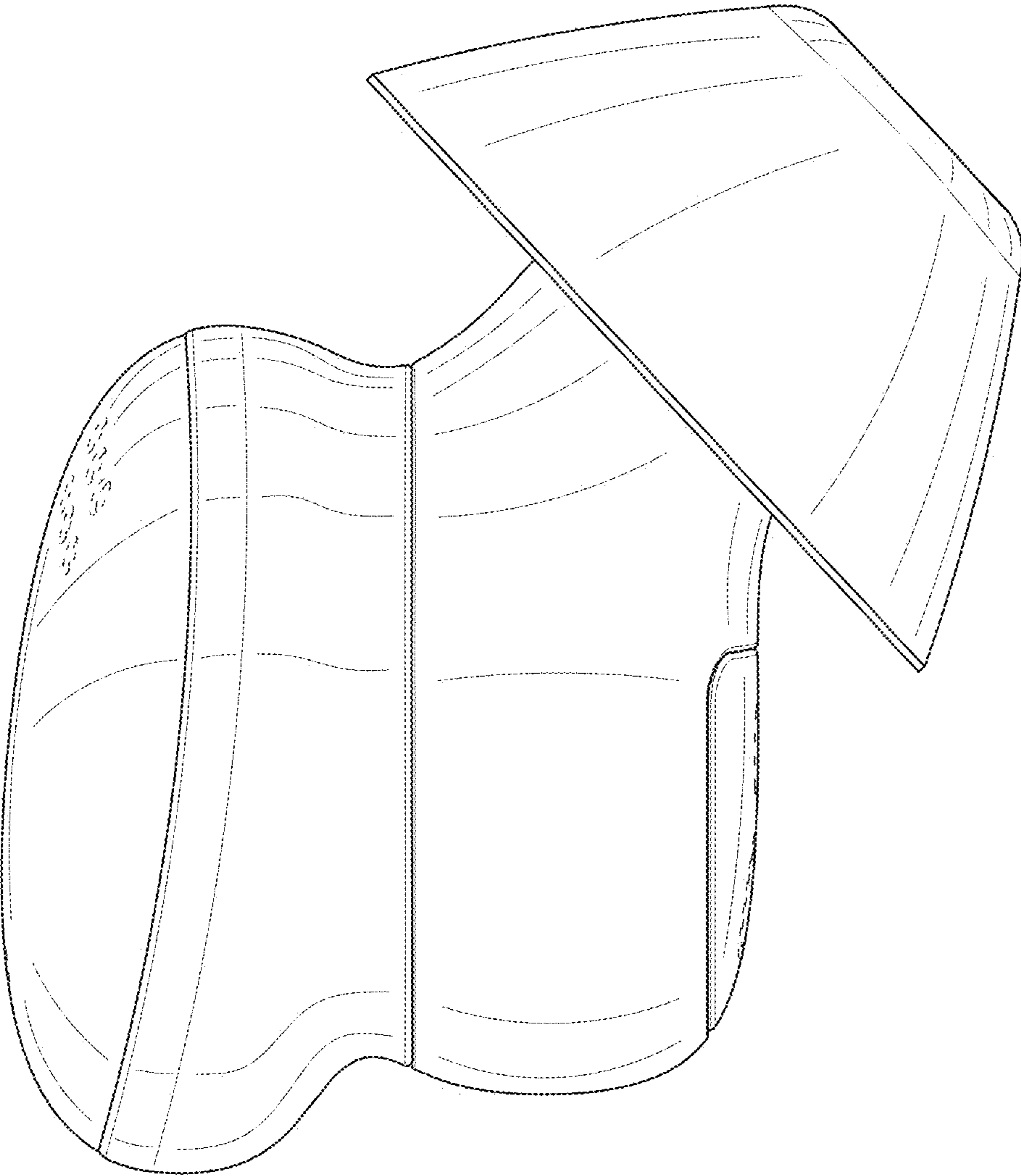


FIG. 7