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(12) **United States Design Patent** (10) **Patent No.:** **US D848,082 S**
Ward (45) **Date of Patent:** **** May 7, 2019**

(54) **AUTOMATIC BALL LAUNCHER**

OTHER PUBLICATIONS

(71) Applicant: **Radio Systems Corporation,**
Knoxville, TN (US)

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(72) Inventor: **Eric A. Ward,** Knoxville, TN (US)

(Continued)

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

Primary Examiner — Leanne Was-Englehart

(21) Appl. No.: **29/561,099**

(74) *Attorney, Agent, or Firm* — Baker, Donelson, Bearman, Caldwell & Berkowitz PC

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Related U.S. Application Data

(57) **CLAIM**

(63) Continuation-in-part of application No. 14/562,671, filed on Dec. 6, 2014, now Pat. No. 9,339,716.

The ornamental design for an automatic ball launcher, as shown and described.

(51) **LOC (11) Cl.** **30-99**

(52) **U.S. Cl.**
USPC **D30/160**

(58) **Field of Classification Search**
USPC D21/567, 720, 722; D30/160
CPC F41B 7/00; A63B 69/40; A63B 69/406;
A63B 69/407; A63B 65/10; A63B 65/12;
A63B 2208/14; A63B 7/00; A01K 15/00;
A01K 15/02; A01K 15/025; A01K 1/10;
A63H 27/00; B68B 1/00

DESCRIPTION

See application file for complete search history.

FIG. 1 is a first perspective view showing our new design for an automatic ball launcher, taken from an upper right front angle.

FIG. 2 is a second perspective view of the automatic ball launcher of FIG. 1, taken from an upper right rear angle.

FIG. 3 is a front elevational view thereof.

FIG. 4 is a back elevational view thereof.

FIG. 5 is a right side elevational view thereof.

FIG. 6 is a left side elevational view thereof.

FIG. 7 is a top view thereof; and,

FIG. 8 is a bottom view thereof.

The structural features shown in broken lines have been shown for the purpose of illustrating portions of the automatic ball launcher that form no part of the claimed design. The ball in FIGS. 1 and 3 is shown in broken lines to illustrate function of the automatic ball launcher. No claim is made herein to a method of operating the automatic ball launcher.

The broken lines for the trademark "PetSafe" are included for the purpose of illustrating environment and form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | |
|-----------|---|---------|--------------|
| 1,534,964 | A | 4/1925 | Kahnweiler |
| 3,400,703 | A | 9/1968 | Rhodes |
| 3,511,225 | A | 5/1970 | Gunpei |
| 3,611,996 | A | 10/1971 | Wegner |
| 3,640,263 | A | 2/1972 | Rhodes |
| 3,665,892 | A | 5/1972 | Kusisto |
| 3,913,552 | A | 10/1975 | Yarur et al. |

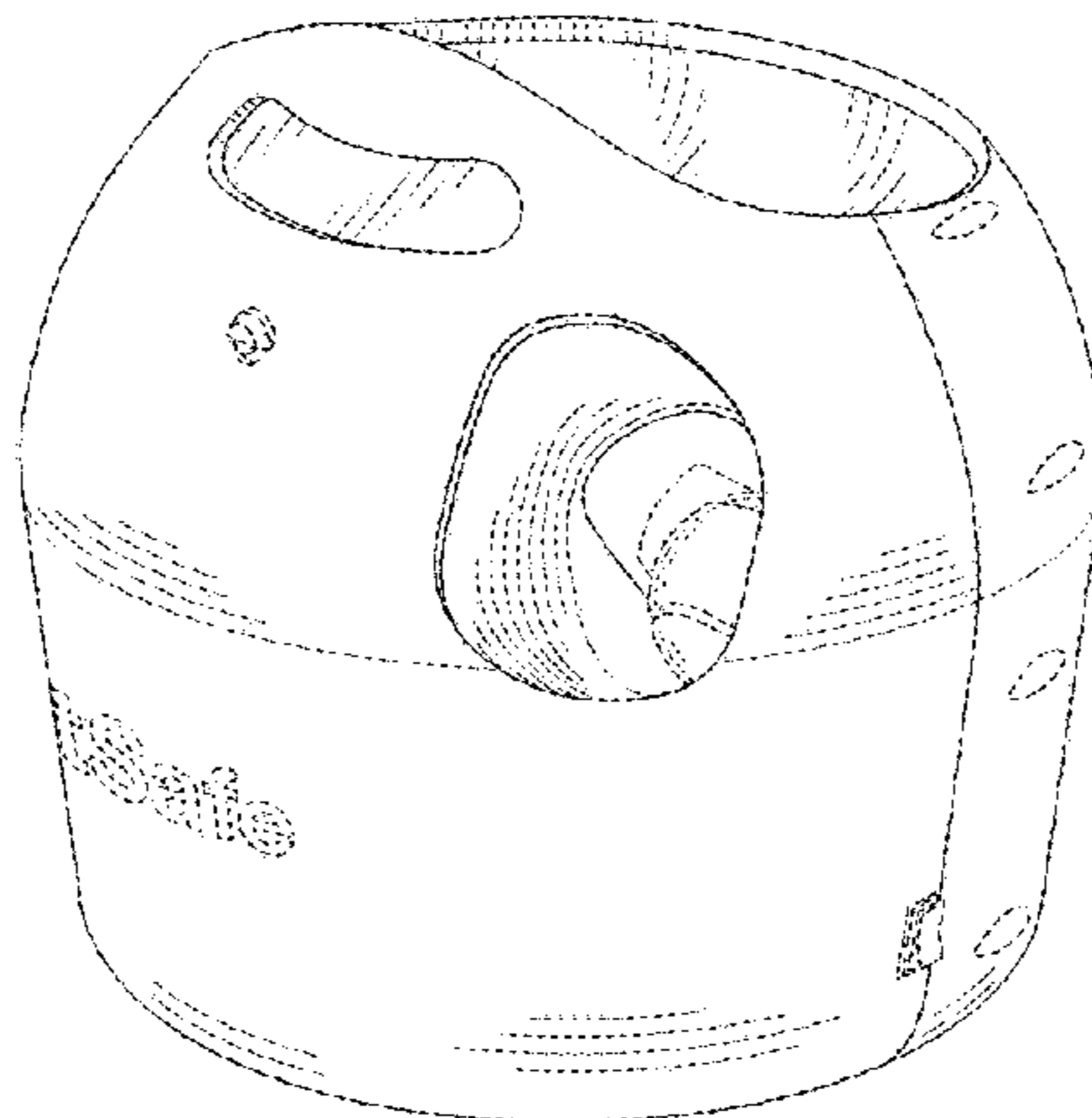
(Continued)

FOREIGN PATENT DOCUMENTS

| | | | |
|----|-----------|---|--------|
| CN | 201234507 | Y | 5/2009 |
| CN | 303650345 | * | 4/2016 |

(Continued)

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

| | | | | | |
|--------------|---------|--------------------|-----------------|---------|------------------------|
| 4,094,294 A | 6/1978 | Speer | 6,875,136 B2 | 4/2005 | Leal et al. |
| 4,168,695 A | 9/1979 | Haller et al. | 6,880,542 B1 | 4/2005 | Johndreau et al. |
| 4,185,608 A | 1/1980 | Young et al. | 6,892,675 B1 | 5/2005 | Comerford |
| 4,209,003 A | 6/1980 | Sainsbury | 7,044,084 B2 | 5/2006 | Ritchey |
| 4,237,851 A | 12/1980 | Haller | 7,066,780 B2 | 6/2006 | Jamison et al. |
| 4,267,799 A | 5/1981 | Bacon | 7,111,620 B2 | 9/2006 | Johndreau et al. |
| 4,323,047 A | 4/1982 | McIntosh et al. | 7,114,465 B1 | 10/2006 | Winter |
| 4,368,885 A | 1/1983 | Katada et al. | 7,237,546 B2 | 7/2007 | Nozato |
| 4,409,953 A | 10/1983 | Kennedy et al. | 7,263,953 B2 | 9/2007 | Sundararajan |
| 4,534,316 A | 8/1985 | Bowlsby | 7,278,934 B2 | 10/2007 | McBride et al. |
| 4,579,100 A | 4/1986 | Whitaker | 7,328,671 B2 | 2/2008 | Kates |
| 4,579,340 A | 4/1986 | Jenkins et al. | 7,334,541 B2 | 2/2008 | Reiter |
| 4,583,514 A | 4/1986 | Nozato | 7,350,515 B2 | 4/2008 | Yao et al. |
| 4,721,091 A | 1/1988 | Ridley et al. | 7,445,003 B2 | 11/2008 | Smith |
| 4,722,299 A | 2/1988 | Mohr | 7,520,818 B2 | 4/2009 | Winchester |
| 4,803,953 A | 2/1989 | Graves | 7,631,617 B1 | 12/2009 | Tsengas |
| 4,834,060 A | 5/1989 | Greene | 7,691,012 B2 | 4/2010 | Cucjen et al. |
| 4,907,540 A | 3/1990 | Reynolds | 7,712,909 B2 | 5/2010 | Nobayashi |
| 4,926,796 A | 5/1990 | Leopold | 7,762,213 B2 | 7/2010 | Cook et al. |
| 4,930,448 A | 6/1990 | Robinson | 7,766,770 B2 | 8/2010 | Cucjen et al. |
| 4,940,018 A | 7/1990 | Edling | 7,806,087 B2 | 10/2010 | Plante |
| 4,995,374 A | 2/1991 | Black | 7,823,571 B2 | 11/2010 | Williamson et al. |
| 5,103,770 A | 4/1992 | Berkovich | 7,823,574 B2 | 11/2010 | Chu |
| 5,111,771 A | 5/1992 | Mathews | 7,977,230 B2 | 7/2011 | Appel |
| D335,553 S | 5/1993 | Conner | 7,997,230 B2 | 8/2011 | Cook et al. |
| D336,033 S | 6/1993 | Welsh | 8,011,326 B2 | 9/2011 | Del Pinal et al. |
| 5,265,583 A | 11/1993 | Otto | D646,443 S | 10/2011 | Cook et al. |
| 5,269,261 A | 12/1993 | McCance | 8,028,659 B2 | 10/2011 | Cook et al. |
| D345,633 S | 3/1994 | McCance | 8,074,633 B2 | 12/2011 | Grant et al. |
| 5,390,629 A | 2/1995 | Simone | 8,104,458 B2 | 1/2012 | Hoffman |
| 5,413,085 A | 5/1995 | Kraeft | 8,109,239 B1 | 2/2012 | Smestad et al. |
| 5,443,036 A | 8/1995 | Amiss et al. | D656,282 S | 3/2012 | Dixon et al. |
| 5,517,948 A | 5/1996 | Udelle et al. | 8,161,908 B2 | 4/2012 | Cook et al. |
| 5,529,017 A | 6/1996 | Udelle et al. | D659,305 S | 5/2012 | Song et al. |
| 5,572,955 A | 11/1996 | Boshears | D659,915 S | 5/2012 | Letchford |
| 5,575,482 A | 11/1996 | Butler, Jr. | 8,166,918 B2 | 5/2012 | Cook et al. |
| 5,579,725 A | 12/1996 | Boshears | 8,166,919 B2 | 5/2012 | Cook et al. |
| 5,592,901 A | 1/1997 | Birmingham | 8,166,920 B2 | 5/2012 | Cook et al. |
| 5,619,953 A | 4/1997 | Griffin | 8,225,750 B2 | 7/2012 | Newman |
| 5,634,435 A | 6/1997 | Udelle et al. | 8,287,404 B2 | 10/2012 | Cucjen et al. |
| 5,657,721 A | 8/1997 | Mayfield et al. | 8,328,368 B2 | 12/2012 | Luciano |
| 5,749,797 A | 5/1998 | Sunseri et al. | 8,347,823 B1 | 1/2013 | Thomas et al. |
| 5,775,263 A | 7/1998 | Richards | 8,371,249 B1 | 2/2013 | Little |
| 5,806,465 A | 9/1998 | Baiera et al. | 8,393,299 B1 | 3/2013 | Bernat |
| 5,857,451 A | 1/1999 | Ciluffo et al. | 8,393,300 B2 | 3/2013 | Markham et al. |
| D405,563 S | 2/1999 | Baiera | 8,414,350 B2 | 4/2013 | Rehkemper et al. |
| 5,875,736 A | 3/1999 | Udelle et al. | 8,418,681 B2 | 4/2013 | Levin et al. |
| 5,881,679 A | 3/1999 | Hann | 8,517,003 B2 | 8/2013 | Fisher |
| 5,934,223 A | 8/1999 | Ellery-Guy | 8,522,725 B1 | 9/2013 | Moore |
| D414,903 S | 10/1999 | Baiera | 8,550,063 B2 | 10/2013 | Alger |
| 6,058,887 A | 5/2000 | Silverman | 8,640,653 B2 | 2/2014 | Cook et al. |
| D427,260 S | 6/2000 | Burr | 8,789,986 B2 | 7/2014 | Li |
| 6,159,112 A | 12/2000 | Ciluffo et al. | 8,807,089 B2 | 8/2014 | Brown et al. |
| 6,174,216 B1 | 1/2001 | Chianese | 8,893,698 B2 | 11/2014 | Boehner |
| 6,176,230 B1 | 1/2001 | Thompson | 8,926,137 B2 | 1/2015 | Li |
| 6,190,271 B1 | 2/2001 | Rappaport et al. | 8,932,156 B2 | 1/2015 | Boehner |
| 6,343,569 B1 | 2/2002 | Buendiger | 8,944,006 B2 | 2/2015 | Anderson et al. |
| 6,353,168 B1 | 3/2002 | Sosoka, Jr. et al. | 8,944,011 B2 | 2/2015 | Kirschbaum |
| 6,360,694 B1 | 3/2002 | Noto | D725,795 S | 3/2015 | Riccobene et al. |
| 6,505,576 B2 | 1/2003 | Nathanson et al. | 9,022,016 B1 | 5/2015 | Hafer et al. |
| 6,510,817 B2 | 1/2003 | Horvath | D748,349 S * | 1/2016 | Hussey D30/160 |
| 6,550,426 B2 | 4/2003 | Tsengas | 9,320,960 B1 * | 4/2016 | Ward A63B 69/407 |
| 6,557,495 B2 | 5/2003 | Lorenz | 9,371,973 B2 | 6/2016 | Li |
| 6,568,353 B2 | 5/2003 | Van Sluis | D794,878 S * | 8/2017 | Hussey D30/160 |
| 6,571,742 B1 | 6/2003 | Tsengas | D797,385 S * | 9/2017 | Hamill D30/160 |
| 6,571,743 B1 | 6/2003 | Curry | 2001/0003942 A1 | 6/2001 | Yabushita et al. |
| 6,591,785 B1 | 7/2003 | Boshears | 2001/0037773 A1 | 11/2001 | Nathanson et al. |
| 6,640,750 B2 | 11/2003 | Rowe et al. | 2002/0002955 A1 | 1/2002 | Lorenz |
| 6,651,591 B1 | 11/2003 | Chelen | 2003/0150398 A1 | 8/2003 | Nathanson et al. |
| 6,679,239 B1 | 1/2004 | Shultz et al. | 2005/0056033 A1 | 3/2005 | Gingras |
| 6,701,872 B1 | 3/2004 | Allen | 2005/0224003 A1 | 10/2005 | Yin et al. |
| 6,732,724 B1 | 5/2004 | Paulson et al. | 2005/0213453 A1 | 9/2006 | Conrady |
| 6,772,745 B2 | 8/2004 | McEachen et al. | 2006/0219187 A1 | 10/2006 | Krishnamurthy et al. |
| 6,817,351 B2 | 11/2004 | Keller et al. | 2007/0289550 A1 | 12/2007 | Huang |
| 6,843,241 B1 | 1/2005 | Newcomer | 2008/0011243 A1 | 1/2008 | Moulton |
| | | | 2010/0079999 A1 | 4/2010 | Schnuckle |
| | | | 2011/0265728 A1 | 11/2011 | Cook et al. |
| | | | 2011/0303208 A1 | 12/2011 | Taylor |
| | | | 2012/0097114 A1 | 4/2012 | Scott |

(56)

References Cited

U.S. PATENT DOCUMENTS

2012/0134157 A1 5/2012 Li
 2012/0234258 A1 9/2012 Cook et al.
 2012/0298049 A1 11/2012 Cook et al.
 2013/0081577 A1 4/2013 Morris
 2013/0228138 A1* 9/2013 Hamill A01K 15/025
 119/707
 2015/0036348 A1 2/2015 Dong et al.
 2015/0321059 A1* 11/2015 Hussey A63B 69/40
 119/707

FOREIGN PATENT DOCUMENTS

EM 002594101 * 1/2015
 JP 2002176873 A 6/2002
 KR 20130027393 A 3/2013
 KR 20140092530 A 7/2014

OTHER PUBLICATIONS

<http://www.petsafe.net/> Available Mar. 22, 2016 (Year: 2016).
 iFetch Shop website accessed Feb. 29, 2016 shop.goifetch.com/product-p/ifetch-too.htm.
 GoDogGo website accessed Feb. 29, 2016 www.godoggoinc.com/products/godoggofetchmachine.html.
 Fetch N Treat website accessed Feb. 29, 2016 tug-e-nuff.co.uk/fetch-n-treat.html.

Australian Patent Examiner's First Report on Patent Application No. 2009305576 dated Jul. 26, 2013, 3 pages.
 Co-pending Design U.S. Appl. No. 29/523,407, filed Apr. 19, 2015, 20 pages.
 English Translation for Japanese office action Application No. JP2011532303, transmission dated Feb. 4, 2014, 5 pages.
 Extended European Search Report for Application No. EP15866103 dated May 11, 2018, 8 pages.
 International Preliminary Report on Patentability for Application No. PCT/US2015/061296 dated Jun. 6, 2017, 8 pages.
 International Search Report and Written Opinion for Application No. PCT/US2015/061296 dated Feb. 29, 2016, 10 pages.
 On-line Product available from www.amazon.com called Ethical Pet Mouse Chase Electronic Cat Toy, printed Jun. 15, 2014, 5 pages.
 Pounce Cat Toy, petsafe.net, accessed on Aug. 28, 2015, 1 page.
 Web page from www.frolicat.com for "Bolt" toy printed May 13, 2013, 3 pages.
 Web page from www.frolicat.com for "Dart" toy printed May 13, 2013, 3 pages.
 Web page from www.frolicat.com for "Twitch" toy printed May 13, 2013, 3 pages.
 Web page from www.frolicat.com for "Sway" toy printed May 13, 2013, 3 pages.
 Website for <http://goifetch.com>, printed Oct. 13, 2014, published Jan. 1, 2013, 1 page.
 Website for www.godoggoinc.com, printed Oct. 13, 2014, published Jan. 1, 2008, 3 pages.

* cited by examiner

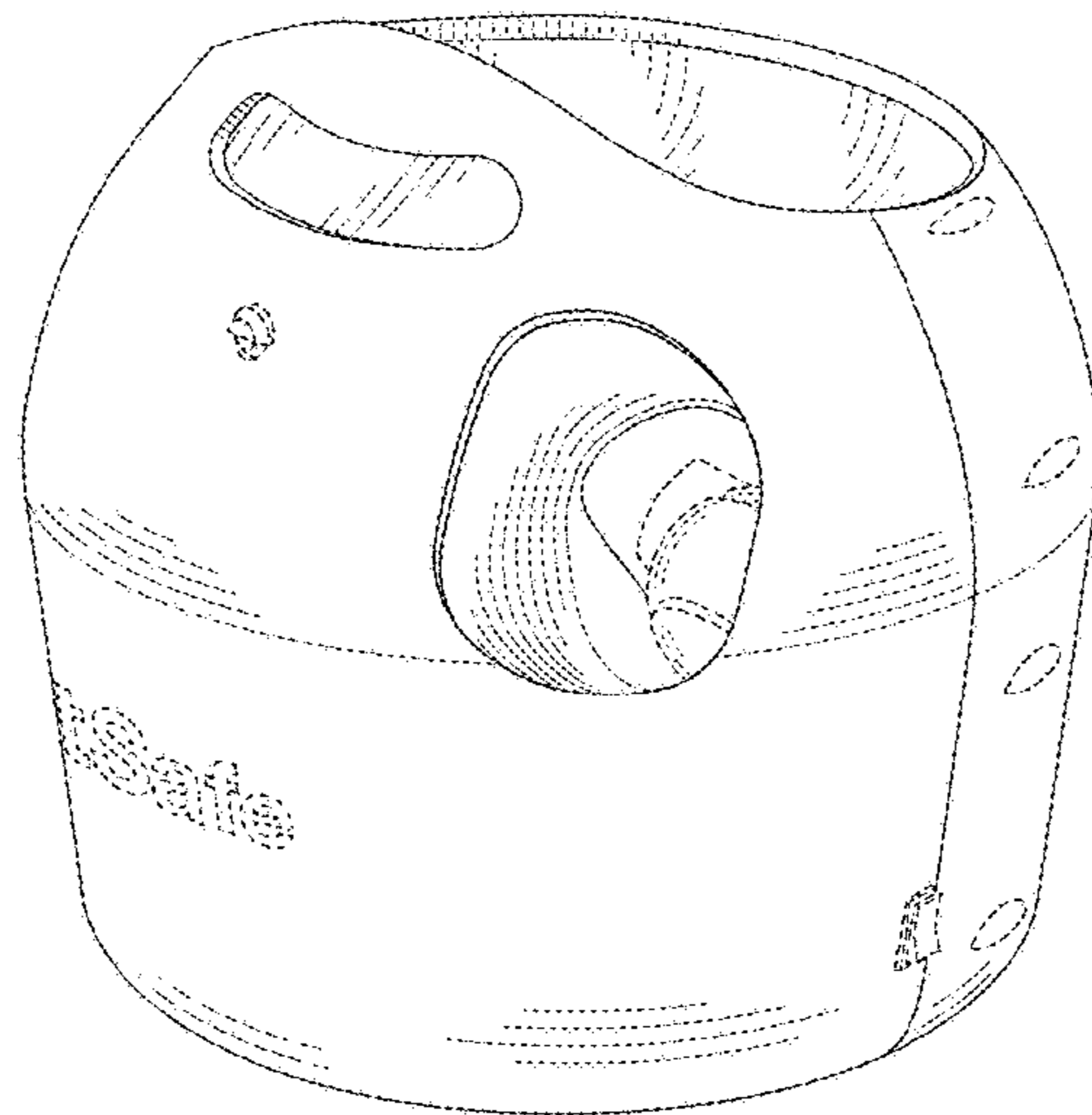


FIG. 1

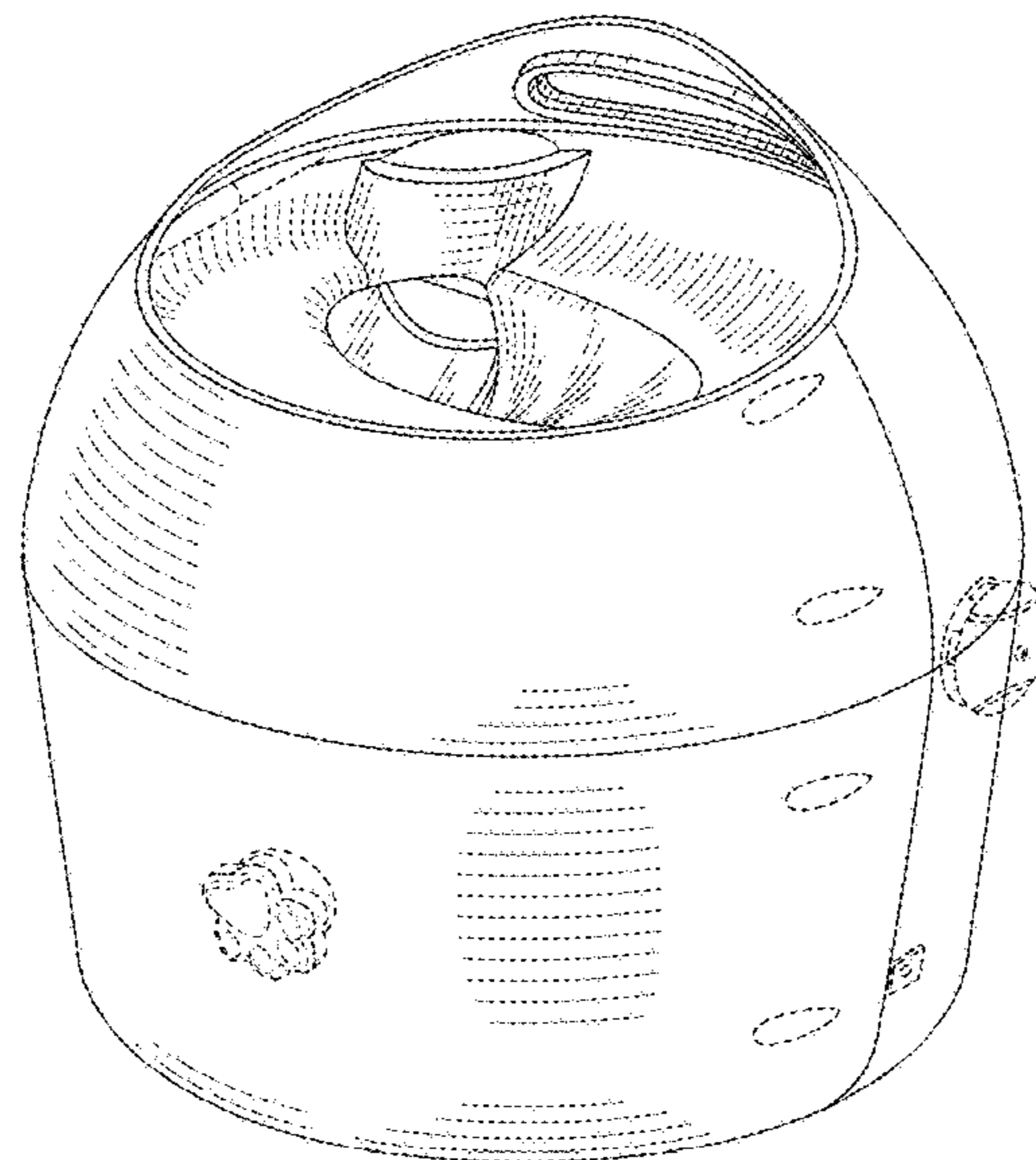


FIG. 2

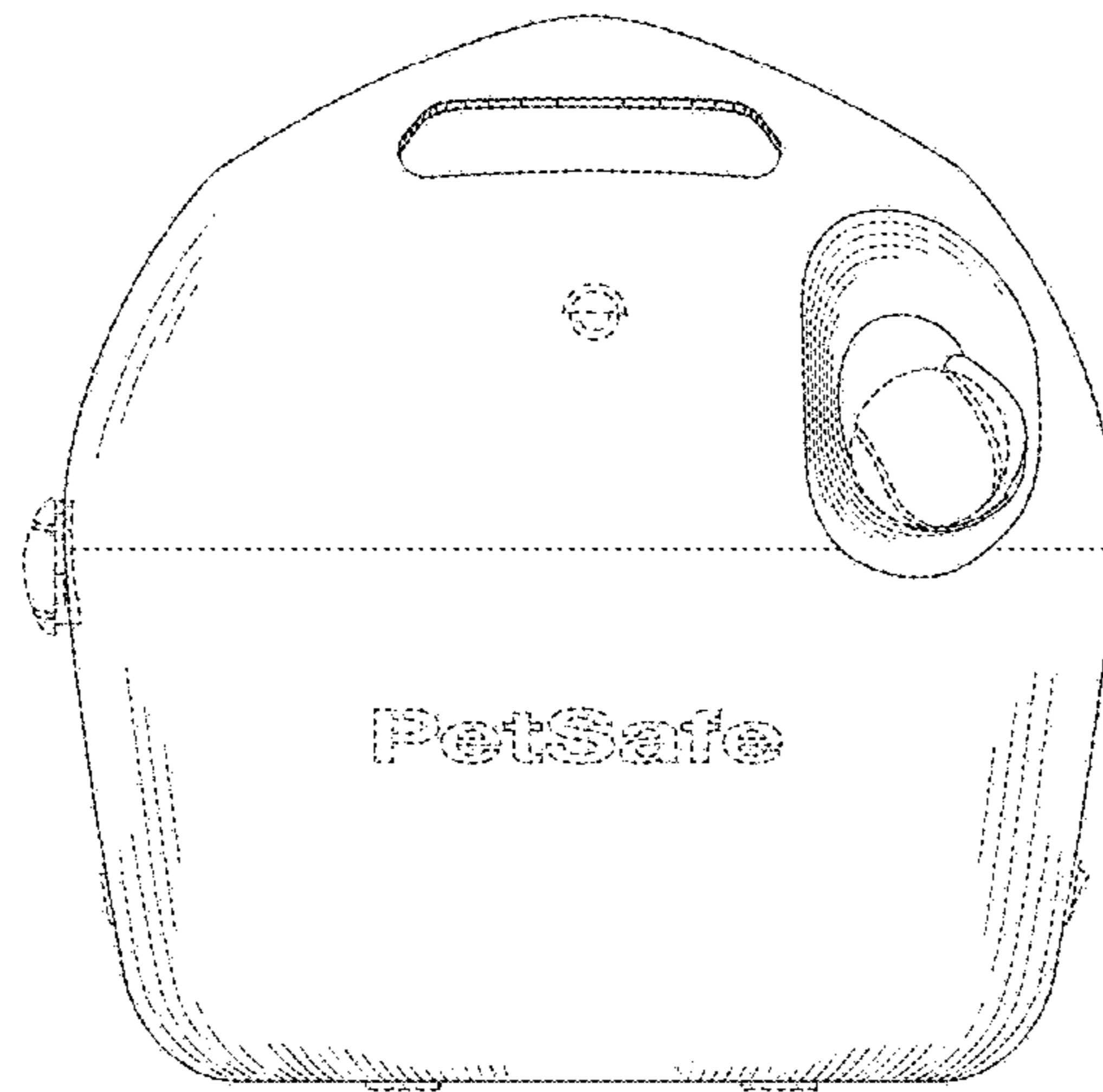


FIG. 3



FIG. 4

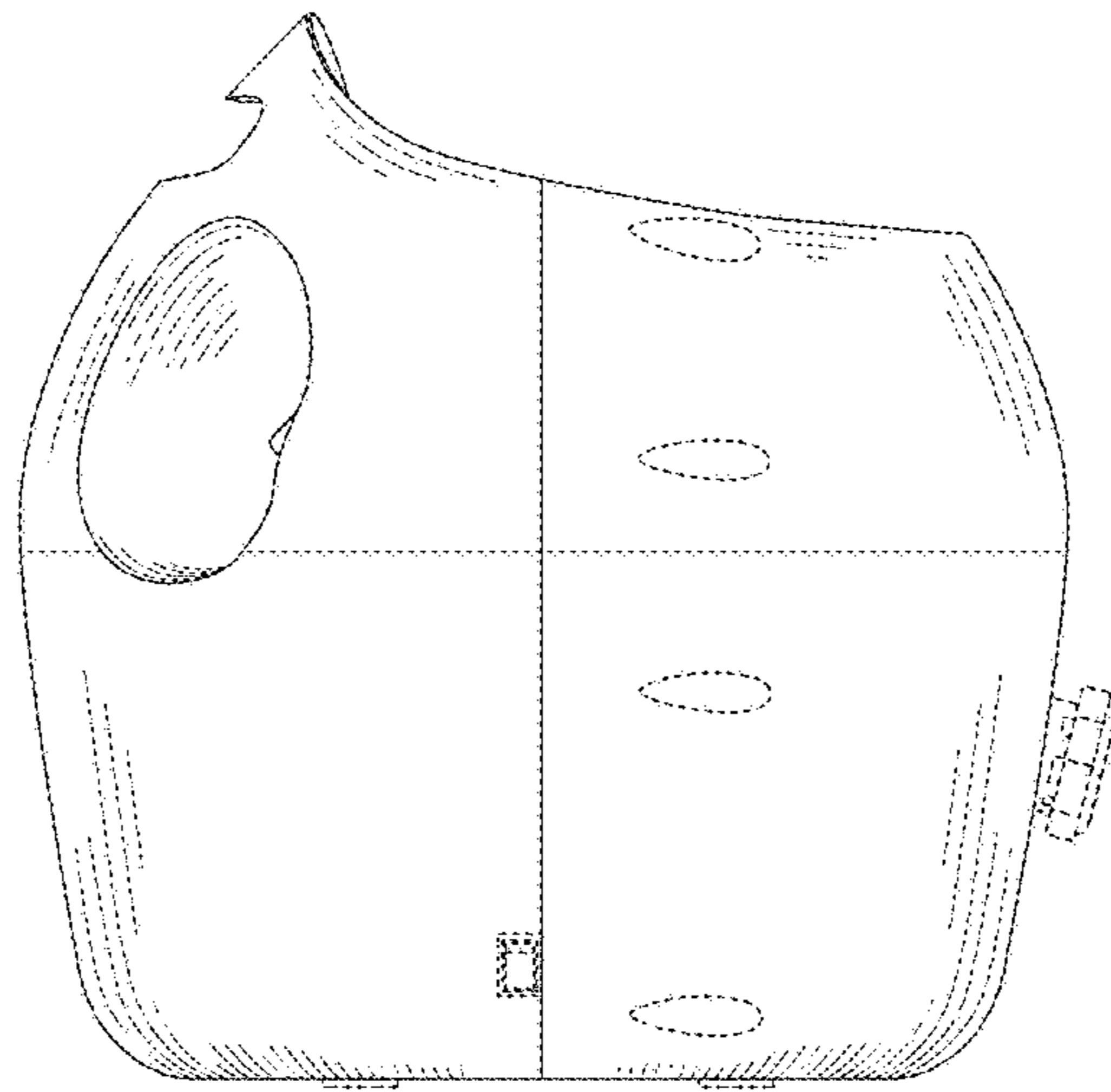


FIG. 5

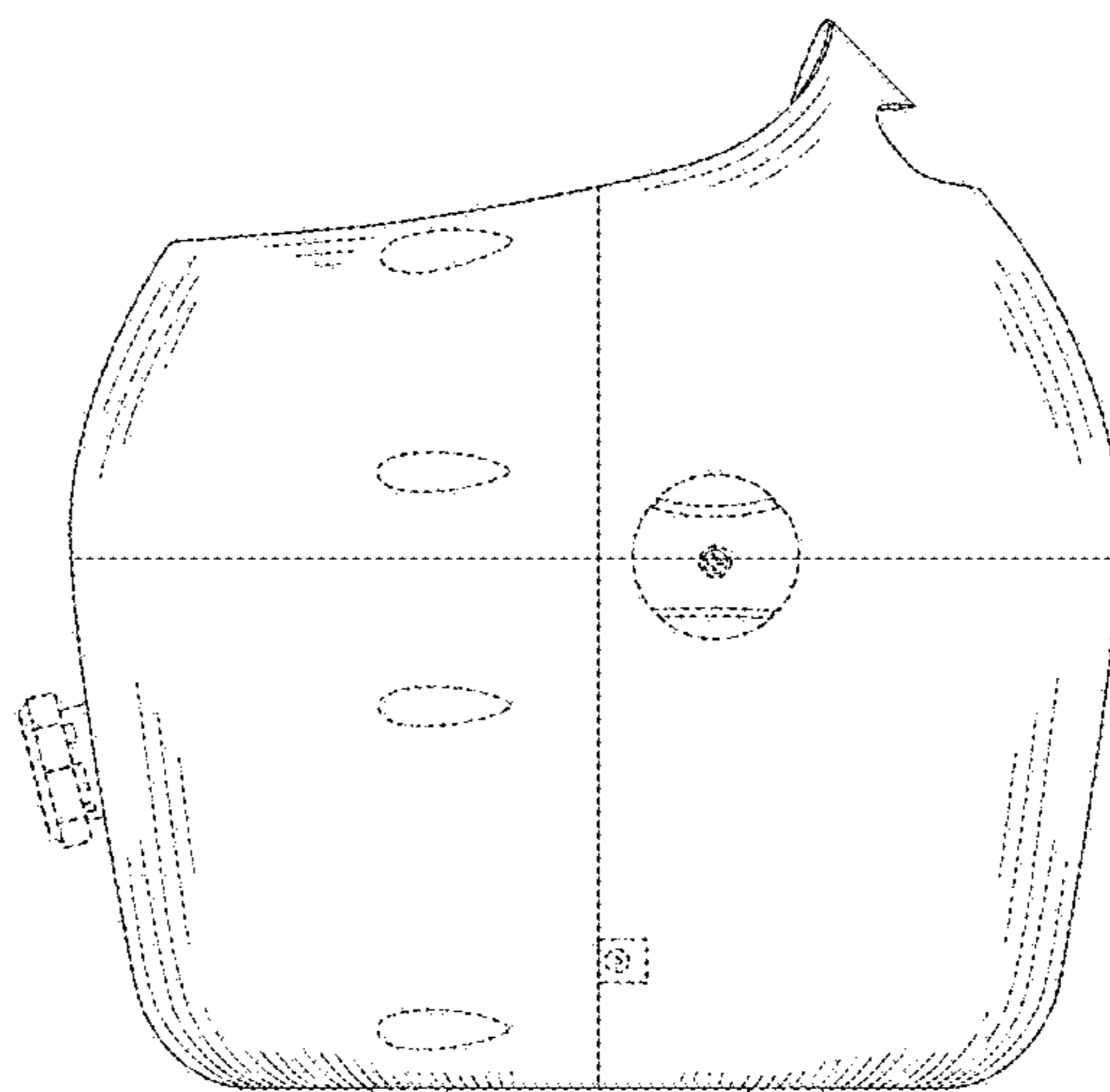


FIG. 6

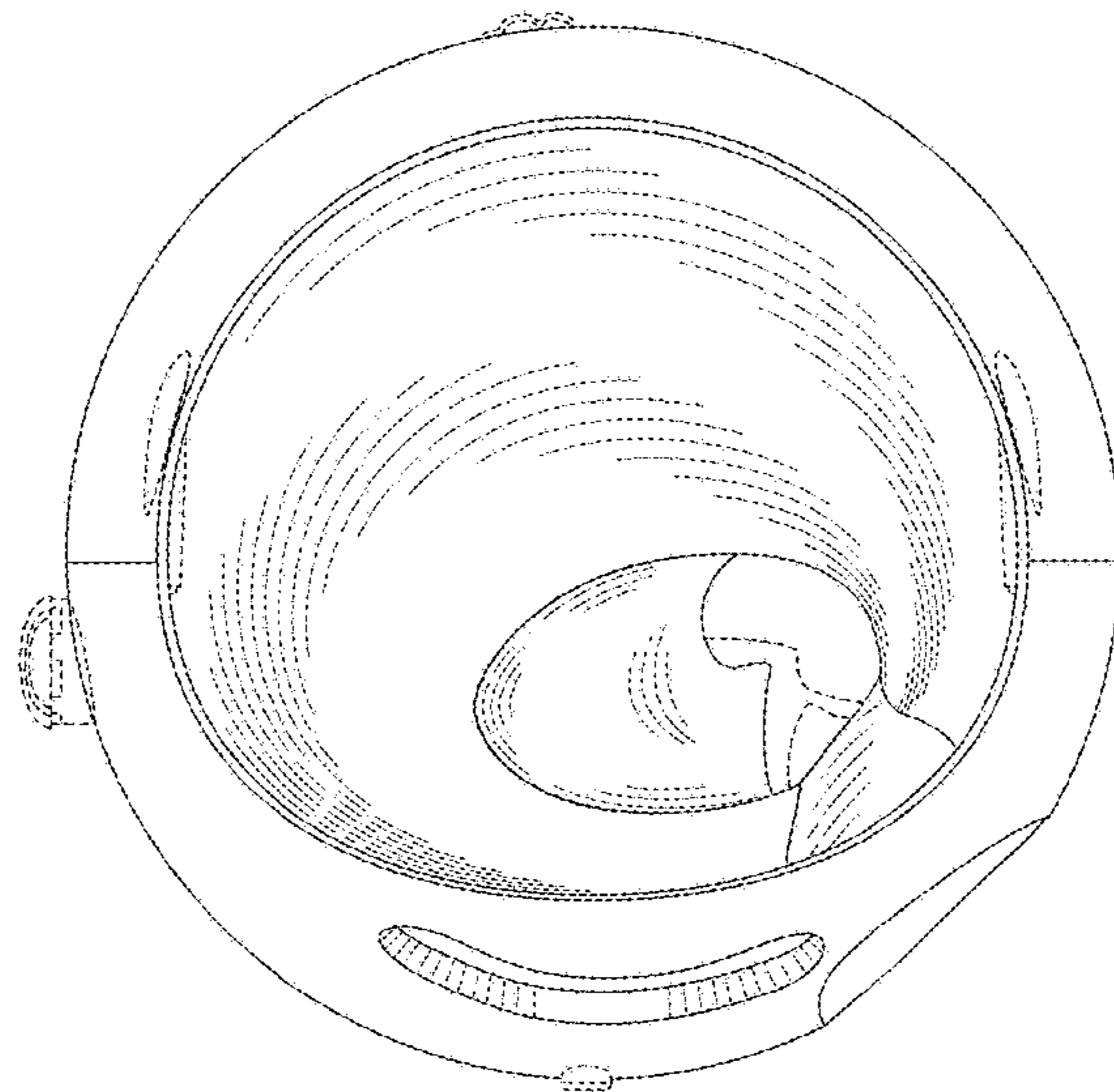


FIG. 7

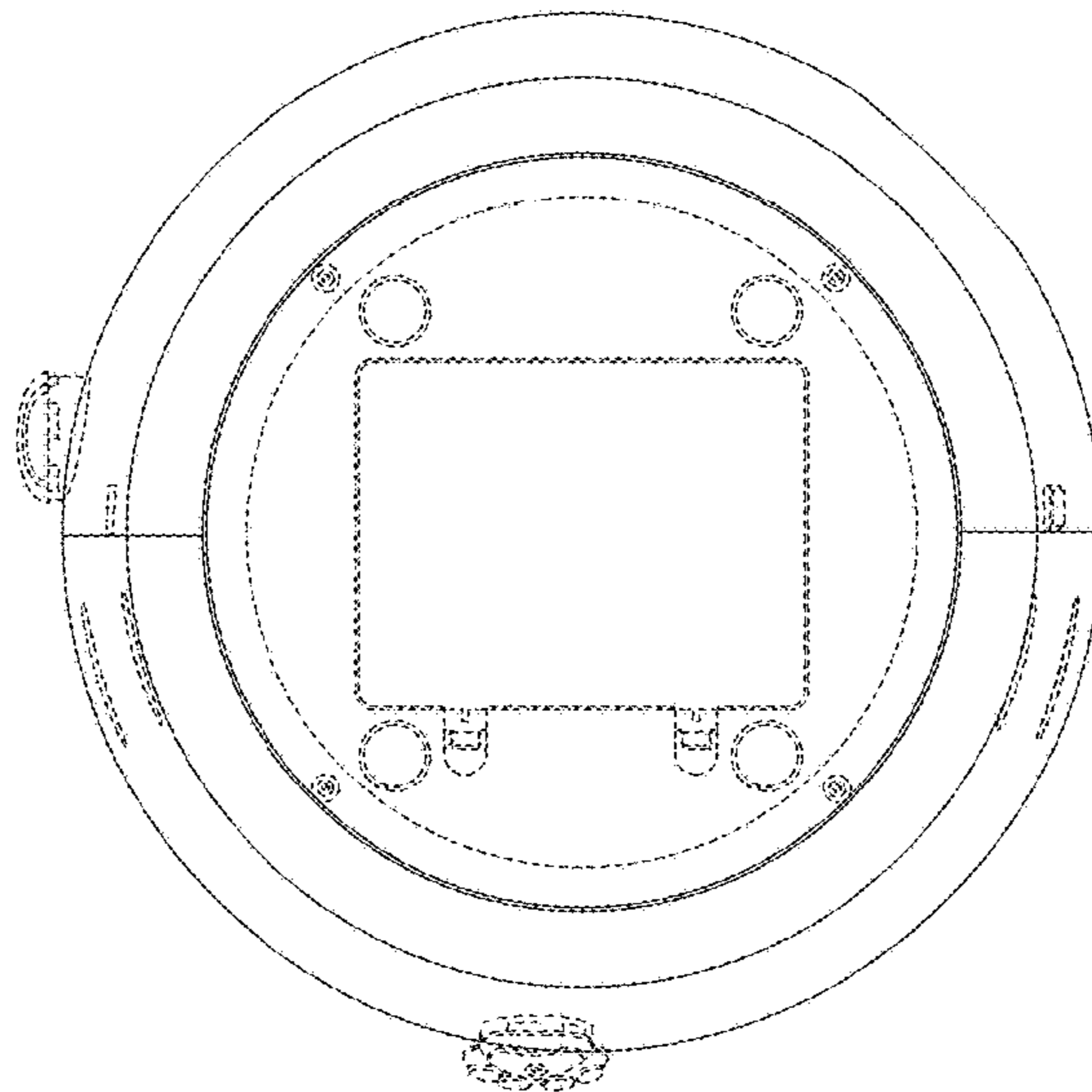


FIG. 8