

US00D727725S

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

(10) **Patent No.:** **US D727,725 S**
(45) **Date of Patent:** **** Apr. 28, 2015**

- (54) **VENTED CONTAINER END CLOSURE**
- (71) Applicant: **Ball Corporation**, Broomfield, CO (US)
- (72) Inventors: **Mark A. Jacobson**, Arvada, CO (US);
Howard C. Chasteen, Westminster, CO (US)
- (73) Assignee: **Ball Corporation**, Broomfield, CO (US)
- (**) Term: **14 Years**

3,326,406 A 6/1967 Brown
 D208,591 S 9/1967 Bozek
 3,362,569 A 1/1968 Geiger

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2280461 2/2001
 CA 2657391 1/2008

(Continued)

OTHER PUBLICATIONS

Notice of Allowance for Australia Patent Application No. 2011286291, dated Apr. 3, 2014 2 pages.
 Notice of Allowance (no English translation available) for Russian Patent Application No. 2013501911 dated Feb. 27, 2014, 2 pages.
 Official Action for Australia Patent Application No. 2011286291, dated Dec. 12, 2013 3 pages.

(Continued)

Primary Examiner — Robert M Spear
 (74) *Attorney, Agent, or Firm* — Sheridan Ross P.C.

- (21) Appl. No.: **29/464,785**
- (22) Filed: **Aug. 21, 2013**

Related U.S. Application Data

- (62) Division of application No. 29/404,996, filed on Oct. 27, 2011, now Pat. No. Des. 691,039.
- (51) **LOC (10) CL.** **09-07**
- (52) **U.S. CL.**
USPC **D9/438**
- (58) **Field of Classification Search**
CPC B65D 51/16
USPC D9/780, 772, 767, 763, 454, 438, 434,
D9/428, 432; D7/396.2, 392.1, 627, 605,
D7/553.2, 541; 220/713, 711, 273, 270,
220/256.1, 254.1, 906, 367.1, 366.1, 276,
220/272, 271, 265; 229/406, 123.2
See application file for complete search history.

- (57) **CLAIM**
The ornamental design for a vented container end closure, as shown and described.

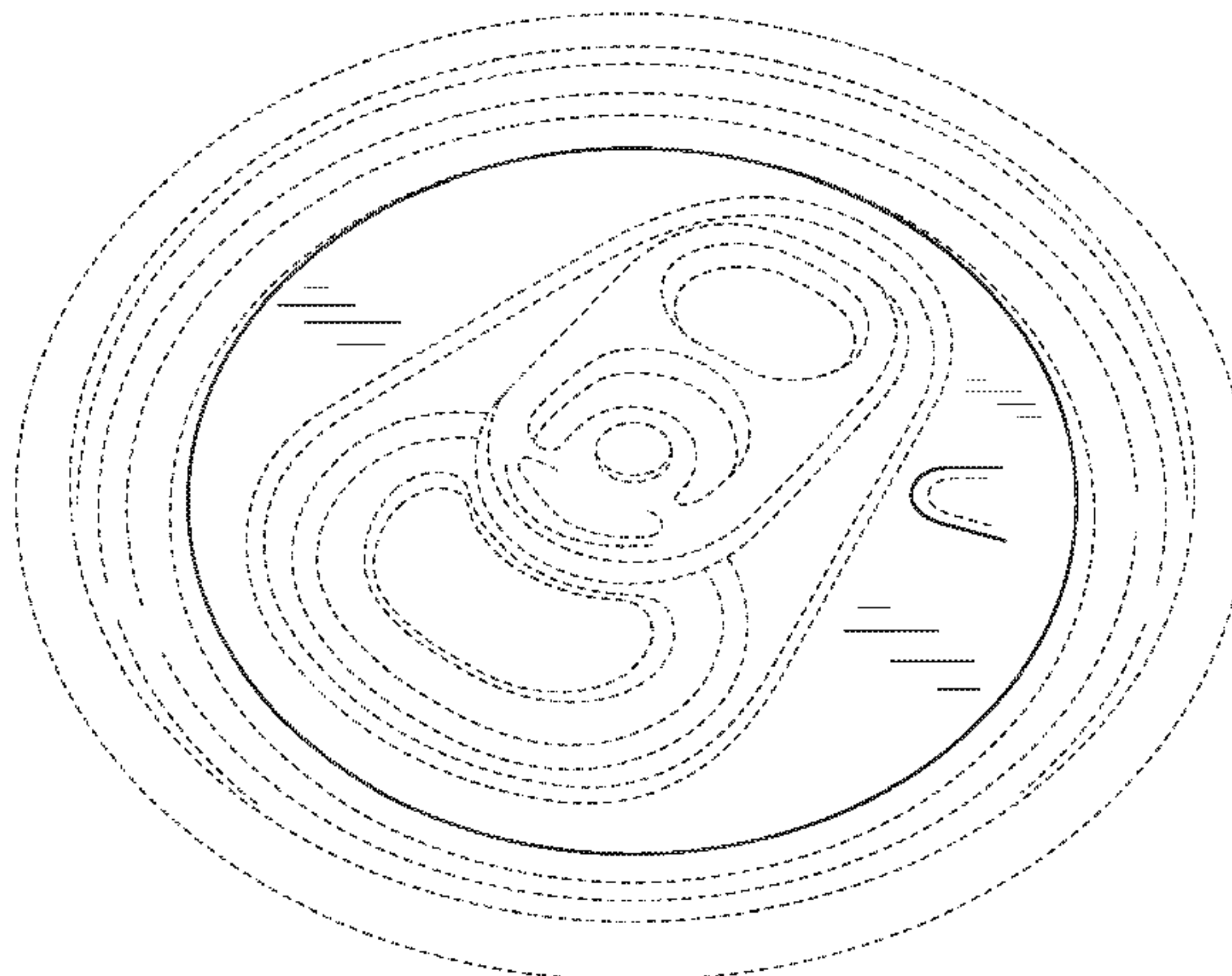
DESCRIPTION

FIG. 1 is a front perspective view of the vented container end closure;
 FIG. 2 is a top plan view thereof;
 FIG. 3 is a bottom plan view thereof;
 FIG. 4 is a front perspective view of a vented container end closure according to an alternative embodiment;
 FIG. 5 is a top plan view of the embodiment of FIG. 4; and,
 FIG. 6 is a bottom plan view of the embodiment of FIG. 4.
 The broken line showing of a vented container end closure is included for the purpose of illustrating environment and forms no part of the claimed design.

- (56) **References Cited**
U.S. PATENT DOCUMENTS

1,847,794 A	3/1932	Takeda	
2,160,429 A	5/1939	Bukolt	
2,272,111 A	2/1942	Dove	
3,169,678 A	2/1965	Wilkinson	
3,215,305 A	11/1965	Frankenberg	
3,227,304 A *	1/1966	Ashury	220/268
3,246,791 A	4/1966	Asbury	
3,262,611 A	7/1966	Palmer	
3,307,737 A	3/1967	Harvey et al.	

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,370,169 A	2/1968	Bozek	5,131,555 A	7/1992	DeMars et al.
3,441,169 A	4/1969	Dunn et al.	5,219,257 A	6/1993	Koch
3,446,389 A	5/1969	Brown	5,224,618 A *	7/1993	Garbiso 220/269
3,618,815 A	11/1971	Heffner	5,248,053 A *	9/1993	Lundgren 220/269
3,731,836 A	5/1973	Silver	5,285,919 A	2/1994	Recchia
3,741,432 A	6/1973	Werth et al.	5,307,947 A	5/1994	Moen et al.
3,744,667 A	7/1973	Fraze et al.	D353,769 S	12/1994	Miller
3,762,597 A	10/1973	Kaminski et al.	5,375,729 A	12/1994	Schubert
3,765,208 A	10/1973	Cozert	5,397,014 A	3/1995	Aydt
3,779,417 A	12/1973	Klein	5,405,039 A	4/1995	Komura
3,794,206 A	2/1974	De Line et al.	5,456,378 A	10/1995	DeMars
3,826,401 A	7/1974	Zundel	D365,274 S	12/1995	Cook
3,833,144 A	9/1974	Bollmann et al.	5,494,184 A	2/1996	Noguchi et al.
3,836,038 A	9/1974	Cudzik	5,555,992 A	9/1996	Sedgeley
3,856,184 A	12/1974	Luviano	5,655,678 A	8/1997	Kobayashi
3,877,604 A	4/1975	Brown	D385,192 S	10/1997	Hurst et al.
3,881,630 A	5/1975	Lovell et al.	5,683,006 A	11/1997	Cook, III
3,908,856 A	9/1975	Perry	5,692,636 A	12/1997	Schubert
D238,150 S	12/1975	Cudzik	5,695,085 A	12/1997	Hadener
D238,659 S	2/1976	Wallace	5,711,448 A	1/1998	Clarke, III
D239,255 S	3/1976	Brincks et al.	5,713,481 A	2/1998	Jordan
D239,256 S	3/1976	Brincks et al.	5,715,964 A	2/1998	Turner et al.
RE28,910 E	7/1976	Dalli et al.	5,819,973 A	10/1998	Traub, Sr. et al.
3,970,212 A	7/1976	Brown	D402,887 S	12/1998	Hurst
3,982,657 A	9/1976	Keller et al.	5,860,553 A	1/1999	Schubert
4,024,981 A	5/1977	Brown	5,911,331 A	6/1999	Boller
4,030,631 A	6/1977	Brown	D415,026 S	10/1999	Turner et al.
4,032,034 A	6/1977	Willis	5,964,366 A	10/1999	Hurst et al.
4,039,100 A	8/1977	Wells	5,975,327 A	11/1999	Funk
4,051,976 A	10/1977	Perry	5,979,697 A	11/1999	Kim
4,054,228 A	10/1977	Balocca et al.	6,024,239 A	2/2000	Turner et al.
4,061,243 A	12/1977	Khoury	D424,438 S	5/2000	Turner et al.
4,062,471 A	12/1977	Perry et al.	6,059,137 A	5/2000	Westwood et al.
4,073,403 A	2/1978	Orange	6,079,583 A	6/2000	Chasteen
4,084,721 A	4/1978	Perry	6,131,763 A	10/2000	Stanish et al.
4,105,133 A	8/1978	La Barge et al.	6,145,866 A	11/2000	Peter
4,128,186 A	12/1978	Gane	D434,983 S	12/2000	Hurst
4,146,149 A	3/1979	Beveridge	6,161,717 A	12/2000	Forrest et al.
4,148,410 A	4/1979	Brown	6,202,880 B1	3/2001	Strube et al.
4,184,607 A	1/1980	Potts	6,330,954 B1	12/2001	Turner et al.
4,196,823 A	4/1980	Madden et al.	6,354,453 B1	3/2002	Chasteen
D255,424 S	6/1980	Bathurst	6,375,029 B2	4/2002	Anthony et al.
D255,425 S	6/1980	Bathurst	6,499,329 B1	12/2002	Enoki et al.
4,205,760 A	6/1980	Hasegawa	6,715,629 B2	4/2004	Hartman et al.
RE30,349 E	7/1980	Silver	6,761,281 B2	7/2004	Hartman
4,210,257 A	7/1980	Radtke	6,837,093 B2	1/2005	Yamasaki
4,213,538 A	7/1980	Boardman	7,000,797 B2	2/2006	Forrest et al.
4,244,489 A	1/1981	Klein	7,096,759 B2	8/2006	Kirko
4,244,490 A	1/1981	Klein	7,100,789 B2	9/2006	Nguyen et al.
4,252,247 A	2/1981	Asbury	D535,561 S *	1/2007	Smith et al. D9/454
4,257,529 A	3/1981	Saunders	D559,680 S	1/2008	Jacober et al.
D259,403 S	6/1981	Frazier	7,506,779 B2	3/2009	Jentzsch et al.
4,276,993 A	7/1981	Hasegawa	7,513,383 B2	4/2009	Hwang
4,280,427 A	7/1981	Potts	7,748,557 B2	7/2010	Robinson
4,289,251 A	9/1981	Maliszewski	7,918,359 B2	4/2011	Paris et al.
4,305,523 A	12/1981	Dalli et al.	7,975,884 B2	7/2011	Mathabel et al.
4,318,494 A	3/1982	Heyn	D653,944 S	2/2012	Seki et al.
4,320,850 A	3/1982	Drolen, Jr.	8,136,689 B2	3/2012	Ulstein et al.
4,361,251 A	11/1982	Langseder et al.	8,152,016 B2 *	4/2012	Berndt et al. 220/253
D267,633 S	1/1983	Christian	8,245,866 B2	8/2012	Gibson et al.
4,397,403 A	8/1983	Guimarin	8,336,726 B2	12/2012	Ramsey et al.
4,402,421 A	9/1983	Ruemer, Jr.	8,397,935 B2	3/2013	Emanuele, III et al.
4,416,389 A	11/1983	Wilkinson et al.	D691,039 S	10/2013	Jacober et al.
4,438,865 A	3/1984	Scattaregia	8,567,158 B2	10/2013	Chasteen et al.
4,448,325 A	5/1984	Edwards et al.	8,627,979 B2	1/2014	Thibaut et al.
4,465,204 A	8/1984	Kaminski et al.	8,646,643 B2	2/2014	Forrest et al.
4,576,306 A	3/1986	Kelsey et al.	2002/0005408 A1	1/2002	Yamasaki et al.
4,901,880 A	2/1990	Tatham et al.	2002/0113069 A1	8/2002	Forrest et al.
4,930,658 A	6/1990	McEldowney	2002/0139800 A1	10/2002	Hwang et al.
4,994,009 A	2/1991	McEldowney	2003/0038134 A1	2/2003	Chasteen et al.
5,007,554 A	4/1991	Hannon et al.	2003/0075544 A1	4/2003	Turner et al.
5,011,037 A	4/1991	Moen et al.	2003/0098306 A1	5/2003	Cho
5,064,087 A	11/1991	Koch	2003/0192889 A1	10/2003	Chasteen et al.
5,065,882 A	11/1991	Sugiyama	2004/0056032 A1	3/2004	Vaughan
5,129,541 A	7/1992	Voigt et al.	2004/0144787 A1	7/2004	Heck
			2004/0211786 A1	10/2004	Turner et al.
			2005/0077316 A1	4/2005	Roberts
			2006/0196875 A1	9/2006	Cherian
			2007/0045318 A1	3/2007	Gibson et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2007/0138178 A1 6/2007 Erickson
 2007/0175896 A1* 8/2007 Bursztein 220/231
 2007/0215621 A1 9/2007 Shinguryo et al.
 2007/0257035 A1* 11/2007 Berndt et al. 220/203.18
 2008/0011786 A1 1/2008 Mathabel et al.
 2008/0302793 A1 12/2008 Tirosh et al.
 2009/0039090 A1 2/2009 Forrest et al.
 2009/0039091 A1 2/2009 Forrest et al.
 2009/0057315 A1 3/2009 Stringfield et al.
 2009/0173740 A1* 7/2009 Ferguson 220/361
 2009/0194536 A1 8/2009 Ulstein et al.
 2009/0200305 A1 8/2009 Stude
 2009/0206083 A1 8/2009 Heigl
 2009/0266824 A1 10/2009 Turner et al.
 2009/0269169 A1 10/2009 Turner et al.
 2010/0000997 A1 1/2010 Southers
 2010/0018976 A1 1/2010 Christian et al.
 2010/0044383 A1 2/2010 Watson et al.
 2010/0224511 A1 9/2010 Boatner
 2010/0294771 A1 11/2010 Holder et al.
 2011/0056946 A1 3/2011 Emanuele, III et al.
 2011/0108552 A1 5/2011 Rios
 2011/0168714 A1* 7/2011 Renz 220/367.1
 2011/0253719 A1 10/2011 Cherian
 2011/0266281 A1 11/2011 Thiemann et al.
 2011/0297679 A1 12/2011 Gogola et al.
 2012/0012584 A1* 1/2012 Chameroy et al. 220/203.01
 2012/0048870 A1 3/2012 Ellerbe, III et al.
 2012/0199586 A1 8/2012 Shamalta
 2012/0199587 A1 8/2012 Norris
 2012/0205378 A1 8/2012 Forrest
 2012/0228296 A1 9/2012 Fields
 2012/0260613 A1 10/2012 Holder et al.
 2013/0037543 A1 2/2013 McClung et al.
 2013/0075401 A1 3/2013 Forrest
 2013/0118133 A1 5/2013 Jacober et al.
 2013/0126529 A1 5/2013 Nesling et al.
 2013/0264343 A1 10/2013 Neiner
 2013/0264344 A1 10/2013 Neiner et al.
 2013/0270269 A1 10/2013 Lewis
 2013/0292382 A1 11/2013 Bork
 2013/0299496 A1 11/2013 Forrest et al.
 2014/0054290 A1 2/2014 McClung et al.
 2014/0103044 A1* 4/2014 Ramsey et al. 220/367.1
 2014/0158685 A1 6/2014 Thiemann et al.

FOREIGN PATENT DOCUMENTS

EP 2038178 10/2010
 ES 2458098 4/2014
 GB 1436617 5/1976
 GB 1532081 11/1978
 GB 2280165 1/1995
 GB 2291030 1/1996
 GB 2320008 6/1998
 JP H08-151043 6/1996
 JP H09-58681 3/1997
 JP H09-301364 11/1997
 JP 10-035662 2/1998
 JP H10-245032 9/1998
 JP 2003285837 10/2003
 JP 2004359339 12/2004
 JP 2005088961 4/2005
 NL 1023297 11/2004
 WO WO 94/13544 6/1994
 WO WO 96/02432 2/1996
 WO WO 97/22531 6/1997
 WO WO 97/42088 11/1997
 WO WO 00/56613 9/2000
 WO WO 01/46025 6/2001
 WO WO 2008/008892 1/2008
 WO WO 2008/023983 2/2008

WO WO 2008/057207 5/2008
 WO WO 2011/053776 5/2011
 WO WO 2012/018549 2/2012
 WO WO 2012/143322 10/2012
 WO WO 2013/102595 7/2013

OTHER PUBLICATIONS

U.S. Appl. No. 29/437,073, filed Nov. 13, 2012, Scott.
 U.S. Appl. No. 29/438,299, Nov. 28, 2012, Jacober et al.
 International Search Report for International (PCT) Application No. PCT/US11/44940, mailed Dec. 22, 2011, 3 pages.
 Written Opinion for International (PCT) Application No. PCT/US11/44940, mailed Dec. 22, 2011, 5 pages.
 International Preliminary Report on Patentability for International (PCT) Application No. PCT/US11/44940, mailed Feb. 21, 2013, 7 pages.
 International Search Report and Written Opinion for International (PCT) Application No. PCT/US12/63384 mailed Feb. 1, 2013, 8 pages.
 Notice of Allowance with English Translation for China Patent Application No. 201330161204.X, dated Oct. 16, 2013 4 pages.
 Notice of Allowance with English Translation for China Patent Application No. 201330204259.4, dated Sep. 26, 2013 4 pages.
 Official Action for Canada Patent Application No. 144505, dated Jun. 13, 2012 2 pages.
 English translation of Notice of Allowance for China Patent Application No. 201230127943.2, dated Aug. 20, 2012 2 pages.
 Official Action for U.S. Appl. No. 12/851,979, mailed Sep. 28, 2012 10 pages.
 Final Action for U.S. Appl. No. 12/851,979, mailed Apr. 29, 2013, 11 pages.
 Notice of Allowance for U.S. Appl. No. 12/851,979, mailed Jul. 11, 2013, 8 pages.
 Official Action for U.S. Appl. No. 29/404,996 mailed Apr. 12, 2013, 5 pages.
 Notice of Allowance for U.S. Appl. No. 29/404,996 mailed May 30, 2013, 7 pages.
 News Releases: "The Can, ReinVented: Louisville is Pilot Market for New Bud Light Vented Can" Anheuser-Busch InBev, Jun. 5, 2013, 3 pages.
 Press Release: "Crown and Molson Coors Debut Cans with New Vented End in Canada," Crown Holdings, Inc., Jul. 11, 2013, 2 pages.
 U.S. Appl. No. 14/066,457, Chasteen et al.
 Official Action for Canadian Patent Application No. 2,806,879 dated Oct. 23, 2013, 2 pages.
 U.S. Appl. No. 29/482,125, Feb. 14, 2014, Dettlaff et al.
 Extended European Search Report for European Patent Application No. 11815019.2 dated Mar. 27, 2014, 7 pages.
 Official Action for Canadian Patent Application No. 150953 dated Feb. 26, 2014, 2 pages.
 Official Action for Canadian Patent Application No. 151227 dated Feb. 26, 2014, 2 pages.
 Official Action for U.S. Appl. No. 29/437,073 mailed Apr. 9, 2014, 6 pages.
 Official Action for U.S. Appl. No. 29/438,299 mailed Apr. 9, 2014, 7 pages.
 U.S. Appl. No. 14/198,174, filed Mar. 5, 2014, Scott.
 "How Ball Makes Beverage Ends," Ball, last modified Dec. 5, 2013, 1 page [retrieved from: http://www.ball.com/images/ball_com/product_options_files/How_Ball_Makes_Beverage_Ends.pdf].
 International Search Report and Written Opinion for International (PCT) Application No. PCT/US14/20821 mailed Jun. 24, 2014, 9 pages.
 Notice of Decision to Grant for Chinese Patent Application No. 201430028024.9 dated May 29, 2014, 4 pages.
 Notice of Allowance for U.S. Appl. No. 29/437,073 mailed Jun. 26, 2014, 10 pages.
 Notice of Allowance for U.S. Appl. No. 29/438,299 mailed Jun. 26, 2014, 8 pages.

* cited by examiner

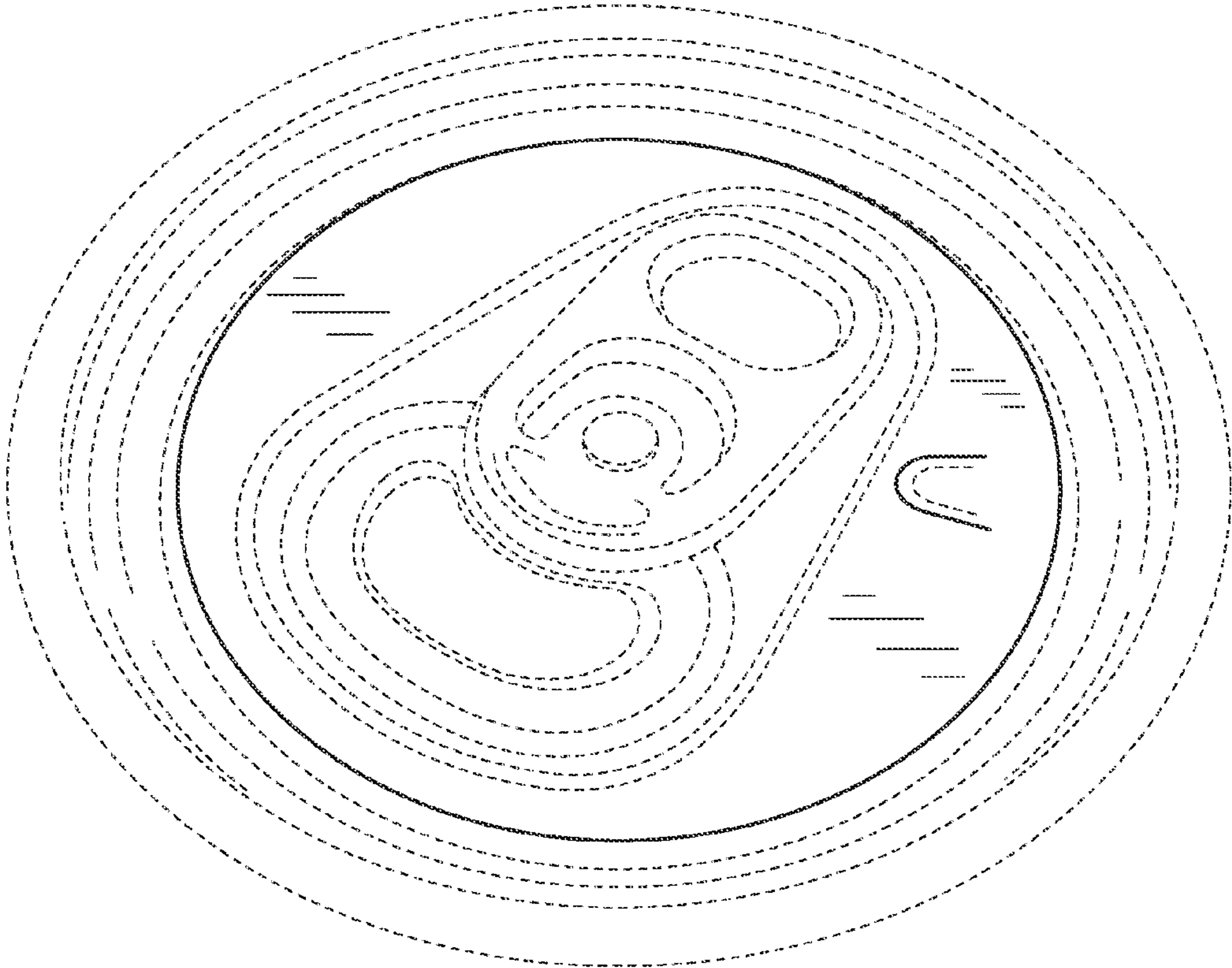


FIG. 1

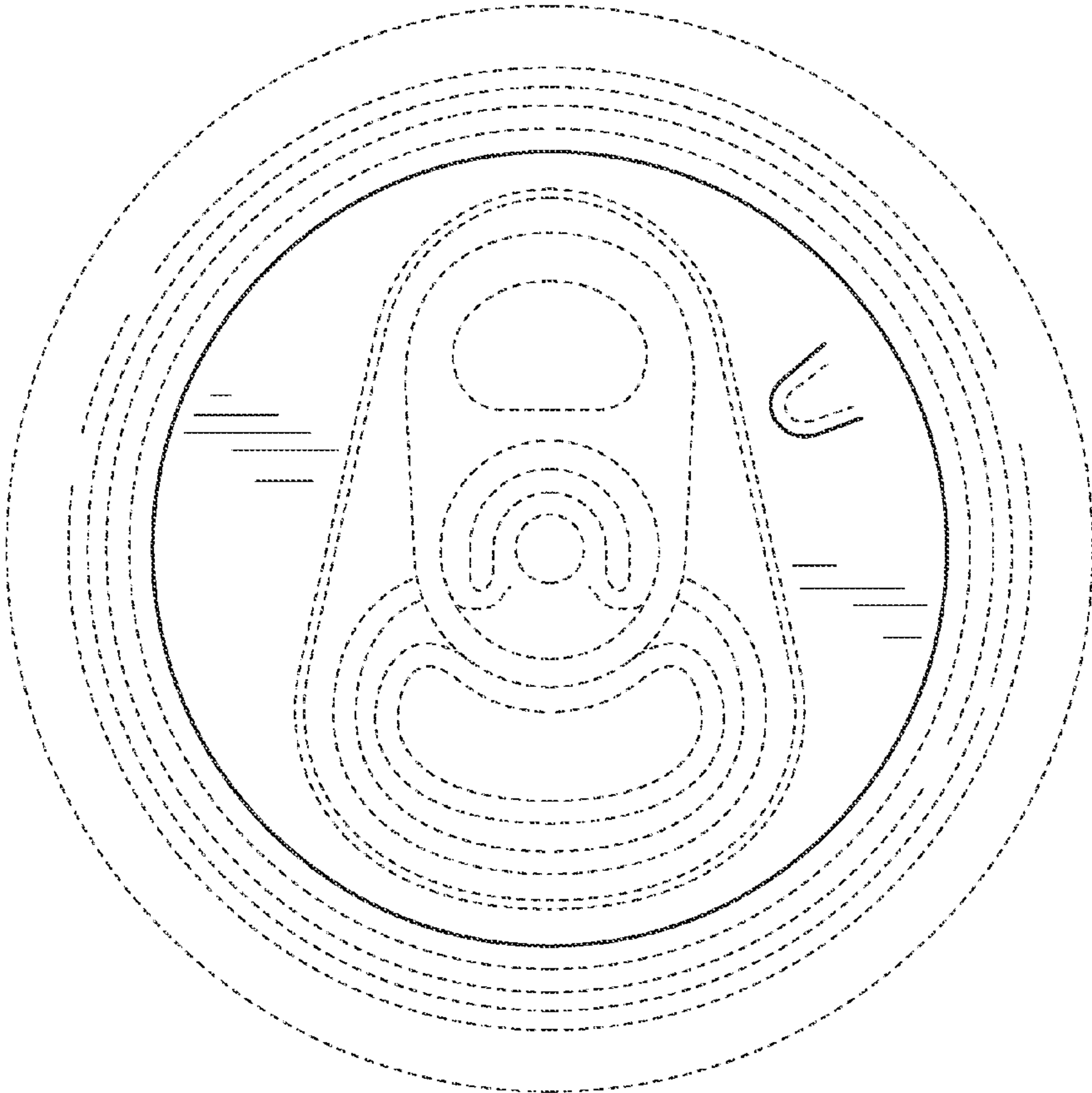


FIG.2

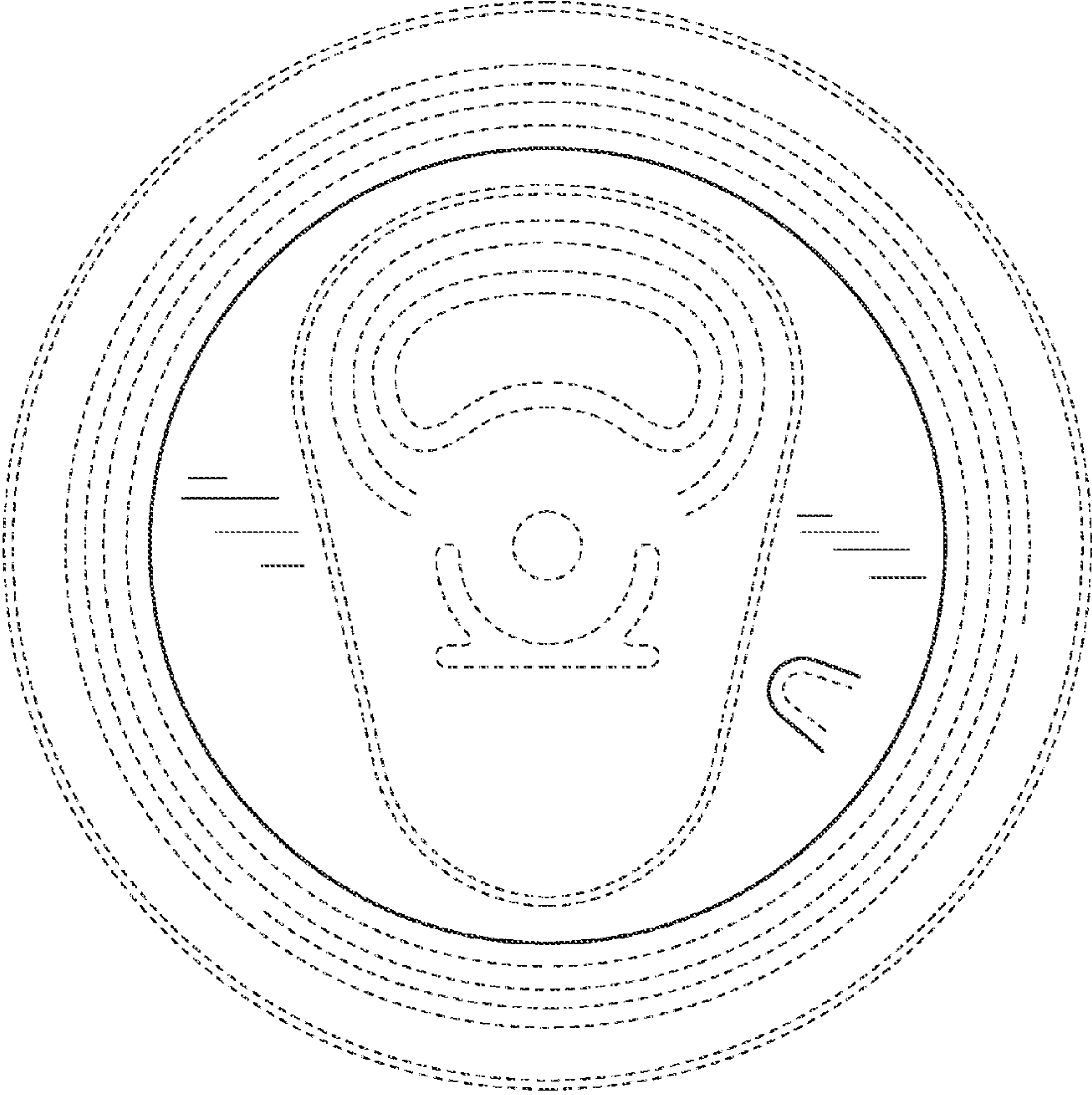


FIG.3

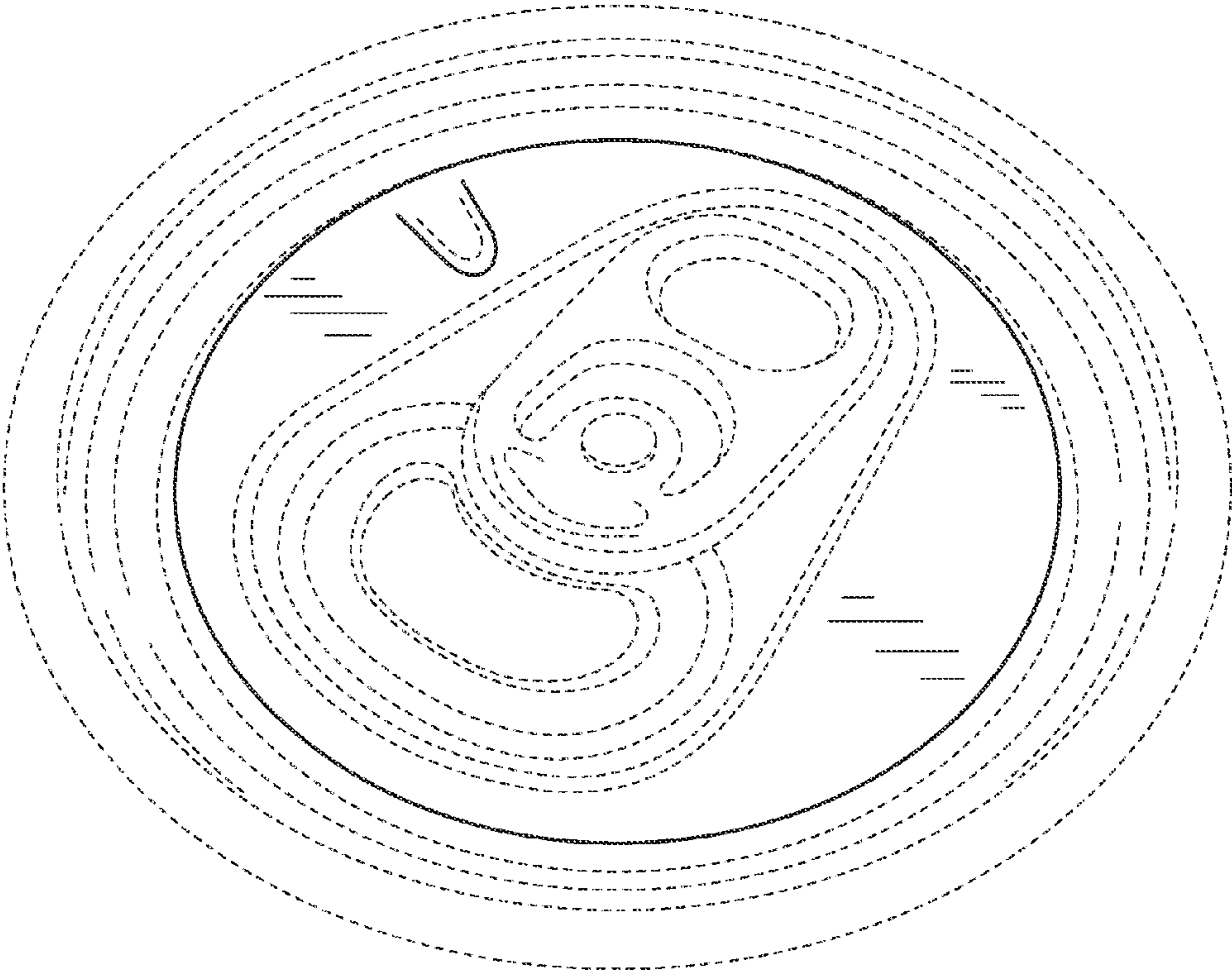


FIG.4

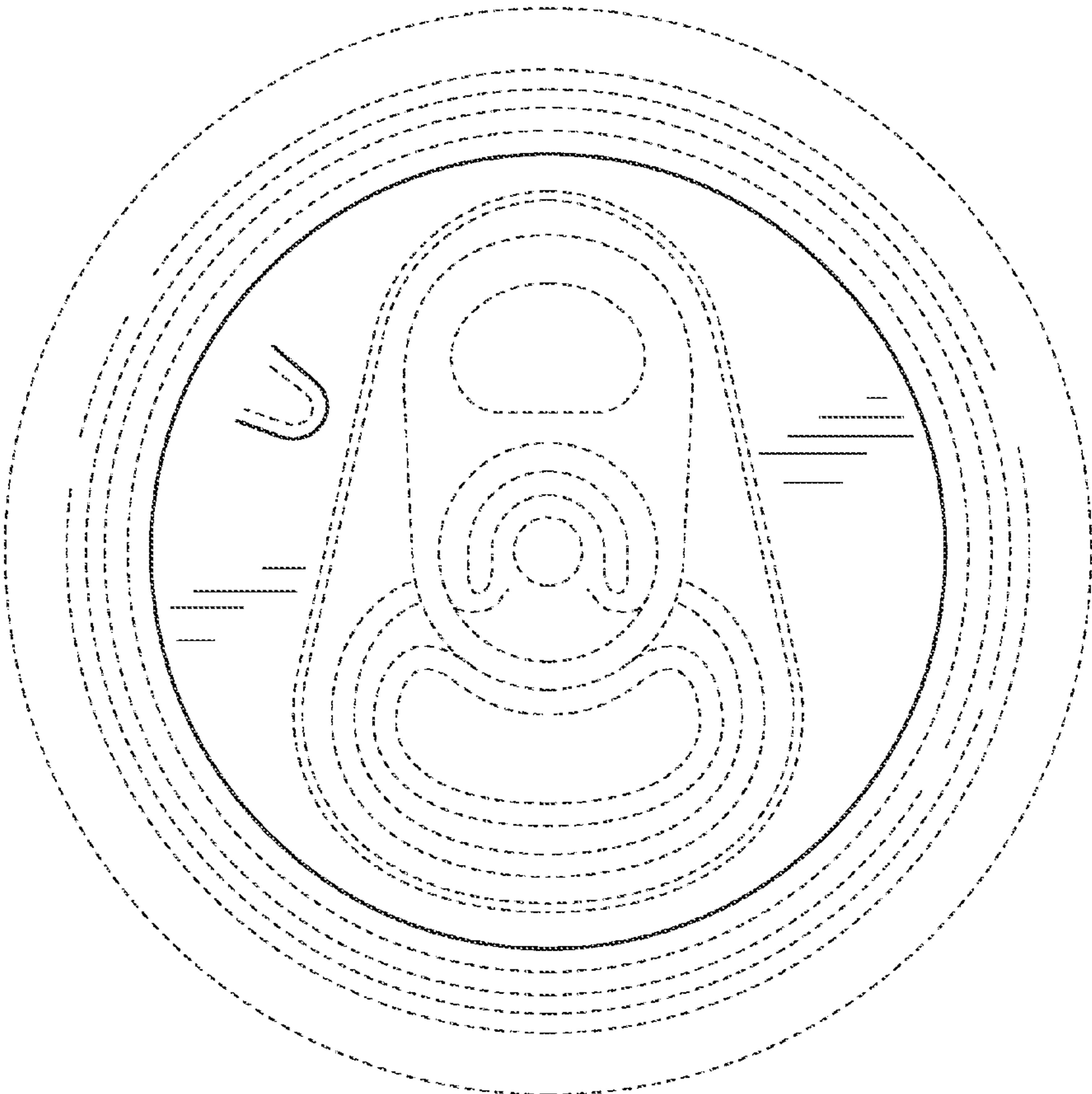


FIG.5

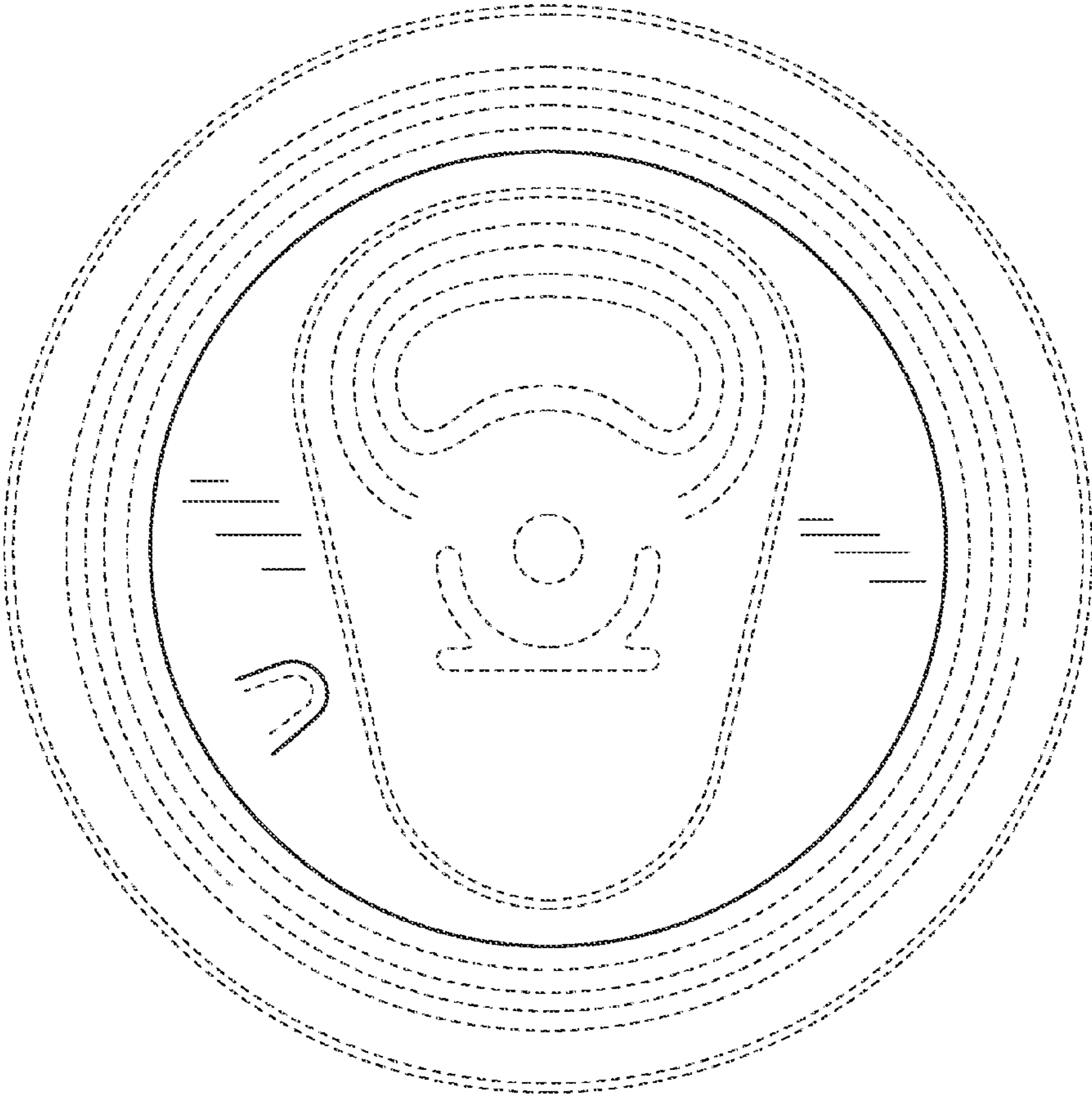


FIG.6