



US00D731887S

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

(10) **Patent No.:** **US D731,887 S**
(45) **Date of Patent:** **** Jun. 16, 2015**

- (54) **VENTED BEVERAGE CAN END**
- (71) Applicant: **Crown Packaging Technology, Inc.**,
Alsip, IL (US)
- (72) Inventors: **Brendan Keane**, Deerfield, IL (US);
Brian Fields, Lemont, IL (US); **Vivek**
Doshi, Chicago, IL (US)
- (73) Assignee: **Crown Packaging Technology, Inc.**,
Alsip, IL (US)
- (**) Term: **14 Years**

3,964,632 A	6/1976	Bozek
3,967,754 A	7/1976	Ostrem
4,014,455 A	3/1977	LaCroce
4,134,517 A	1/1979	Rhoades
4,136,797 A	1/1979	Potts
4,367,996 A	1/1983	Saunders
5,011,037 A	4/1991	Moen et al.
5,131,555 A	7/1992	DeMars et al.
5,224,618 A	7/1993	Garbiso
5,285,919 A	2/1994	Recchia
5,375,729 A	12/1994	Schubert
5,397,014 A	3/1995	Aydt
5,555,992 A	9/1996	Sedgeley
5,692,636 A	12/1997	Schubert
5,695,085 A	12/1997	Hadener

(Continued)

(21) Appl. No.: **29/449,126**

(22) Filed: **Mar. 14, 2013**

(51) **LOC (10) Cl.** **09-07**

(52) **U.S. Cl.**
USPC **D9/438**

(58) **Field of Classification Search**
USPC D7/392.1, 396.2, 541, 553.2, 605;
D9/416, 425, 432, 434, 435, 438, 443,
D9/447, 454, 518, 538, 763, 767, 772,
D9/780; 53/306, 308, 452, 486, 492;
72/422; 141/6; 215/305; 220/220, 253,
220/254.4, 258.5, 365, 369-273, 276, 288,
220/377, 604, 619, 623, 703, 711, 713, 730,
220/793; 222/153.07; 224/148.7;
229/123.2, 406; 413/4, 8, 12, 14-17,
413/56

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,441,169 A	4/1969	Dunn et al.
3,741,432 A	6/1973	Werth et al.
3,782,586 A	1/1974	Brown
3,795,340 A	3/1974	Hougen et al.
3,838,788 A	10/1974	Stargell
3,869,063 A	3/1975	Himstedt

FOREIGN PATENT DOCUMENTS

CA	2280461	2/2001
CN	302188734	* 4/2012

(Continued)

Primary Examiner — Susan Bennett Hattan

Assistant Examiner — Leanne Was

(74) *Attorney, Agent, or Firm* — Baker & Hostetler LLP

(57) **CLAIM**

We claim the ornamental design for a vented beverage can end, as shown and described.

DESCRIPTION

FIG. 1 is a top view of a vented beverage can end;

FIG. 2 is a bottom view thereof;

FIG. 3 is a top view thereof;

FIG. 4 is a bottom view thereof;

FIG. 5 is a top perspective view thereof;

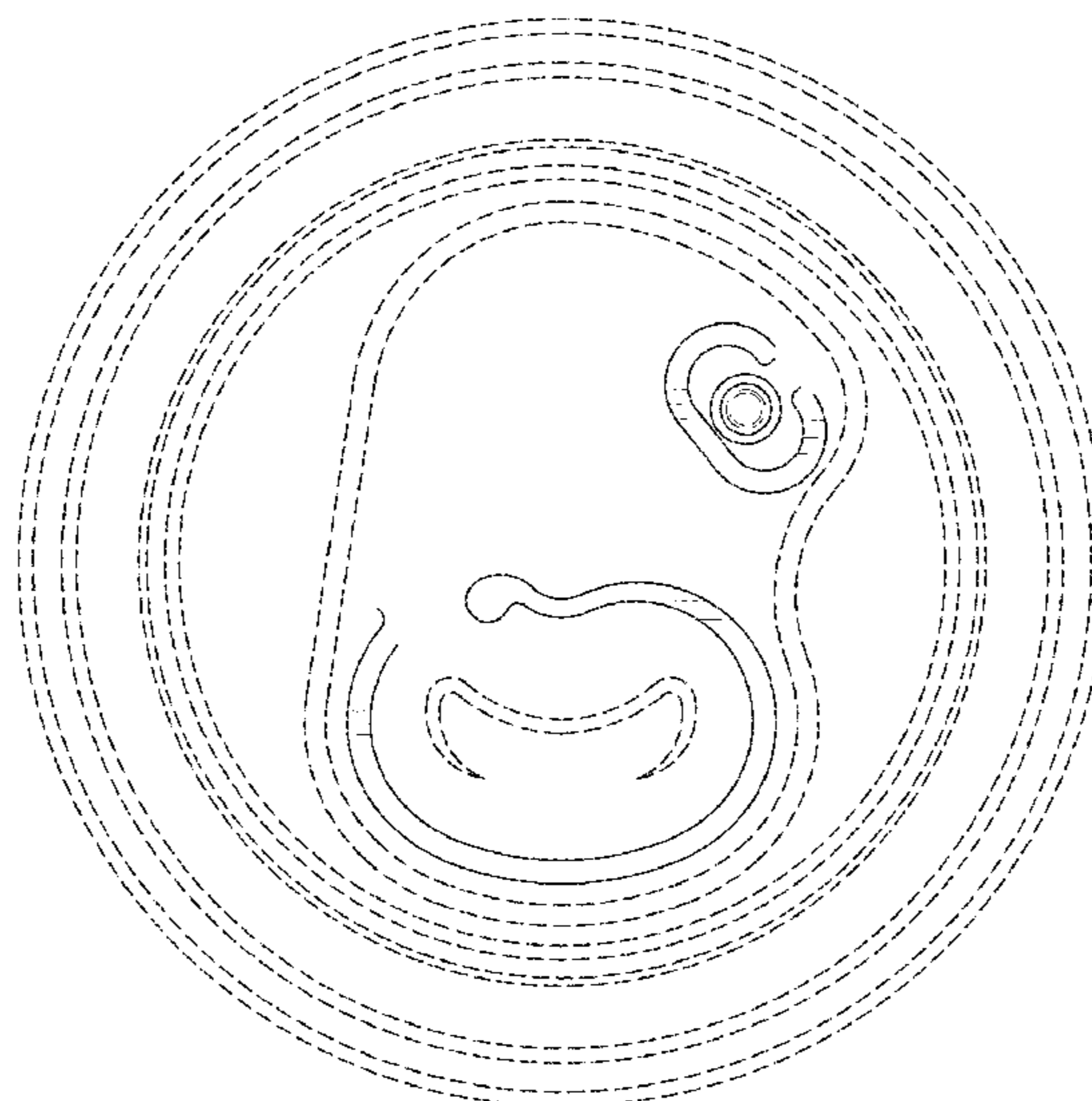
FIG. 6 is a bottom perspective view thereof;

FIG. 7 is a top view thereof; and,

FIG. 8 is a top perspective view thereof.

The broken lines in the drawings depict environmental subject matter only and form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,860,553	A	1/1999	Schubert	
6,079,583	A	6/2000	Chasteen	
6,354,453	B1	3/2002	Chasteen	
6,951,293	B2	10/2005	Thibaut	
7,513,383	B2	4/2009	Hwang	
7,748,563	B2 *	7/2010	Turner et al.	220/623
7,942,285	B2	5/2011	Hasegawa et al.	
7,975,884	B2	7/2011	Mathabel et al.	
8,011,527	B2 *	9/2011	Forrest et al.	220/623
8,186,532	B2 *	5/2012	Shinguryo et al.	220/269
8,678,221	B2 *	3/2014	Thiemann et al.	220/271
2003/0075544	A1 *	4/2003	Turner et al.	220/269
2004/0056032	A1 *	3/2004	Vaughan	220/269
2004/0144787	A1	7/2004	Heck	
2004/0211786	A1 *	10/2004	Turner et al.	220/619
2006/0016815	A1	1/2006	Rieck et al.	
2007/0215621	A1 *	9/2007	Shinguryo et al.	220/269
2009/0001081	A1	1/2009	Schlattl et al.	
2009/0039090	A1 *	2/2009	Forrest et al.	220/623
2009/0039091	A1 *	2/2009	Forrest et al.	220/623
2009/0090716	A1	4/2009	Stengel, Jr.	

2009/0206083	A1	8/2009	Heigl	
2010/0018976	A1	1/2010	Christian et al.	
2010/0219187	A1	9/2010	Na	
2010/0294771	A1	11/2010	Holder et al.	
2011/0056946	A1	3/2011	Emmanuele, III et al.	
2011/0266281	A1	11/2011	Thiemann et al.	
2012/0199587	A1	8/2012	Norris	
2012/0205378	A1 *	8/2012	Forrest	220/269
2013/0037543	A1 *	2/2013	McClung et al.	220/269
2013/0075401	A1 *	3/2013	Forrest	220/270
2013/0270269	A1 *	10/2013	Lewis	220/270
2014/0054290	A1 *	2/2014	McClung et al.	220/271

FOREIGN PATENT DOCUMENTS

GB	2320008	6/1998
JP	60150922	10/1985
JP	5504318	7/1993
JP	H1035662	2/1998
JP	2001-018960	1/2001
JP	2003-285837	10/2003
JP	2006-160303	6/2006
WO	WO 2008/023983	2/2008

* cited by examiner

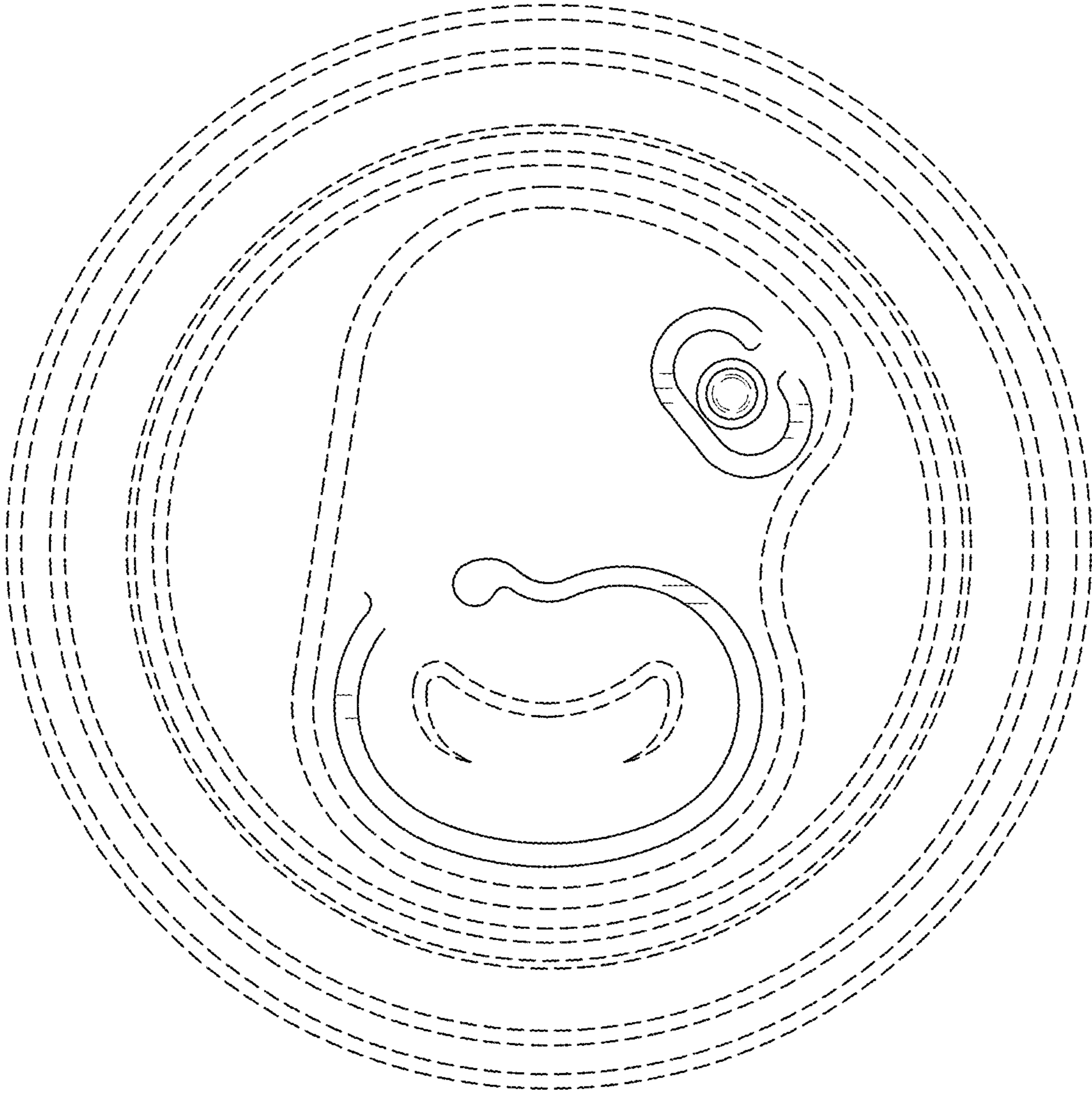


FIG. 1

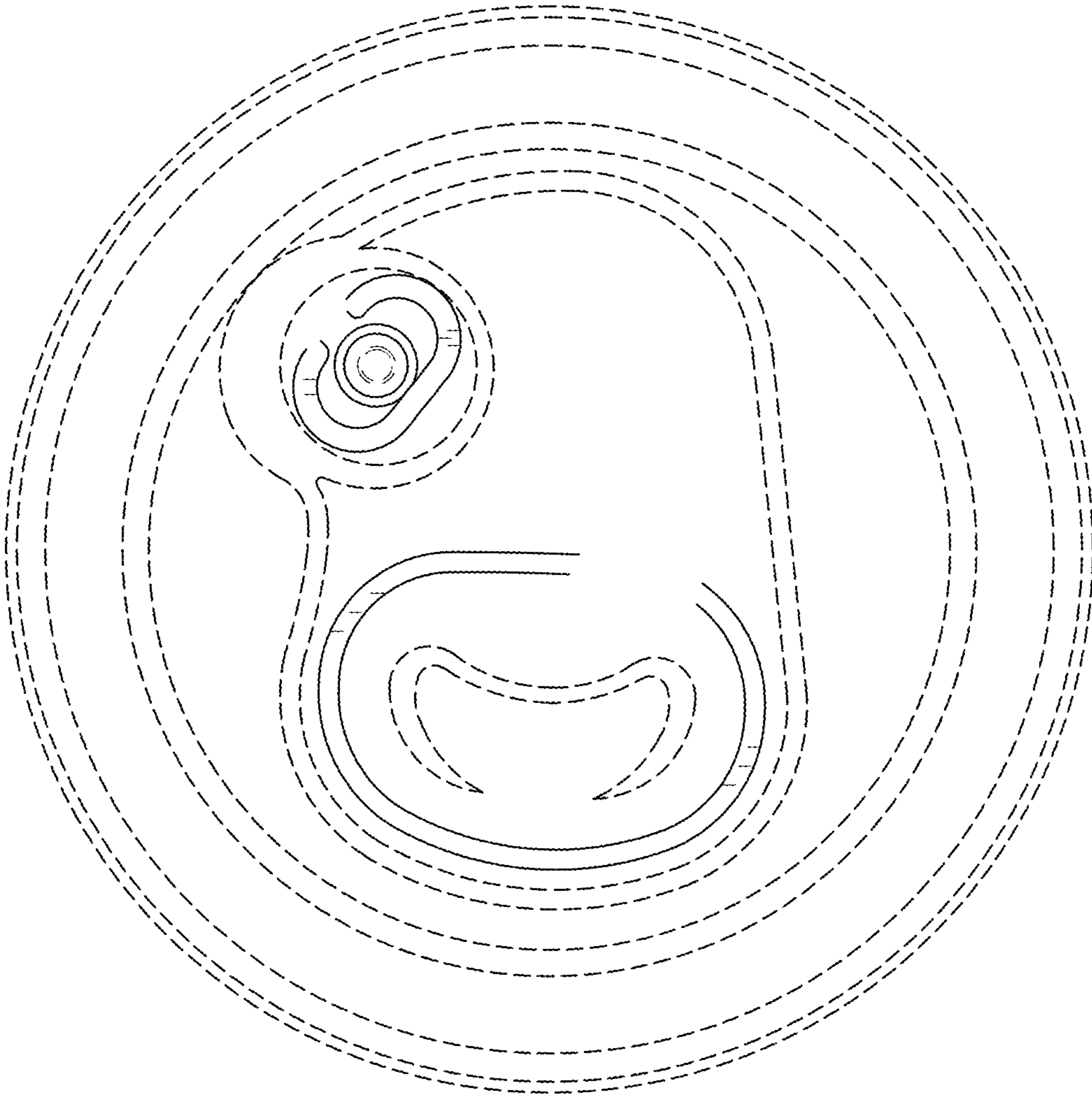


FIG. 2

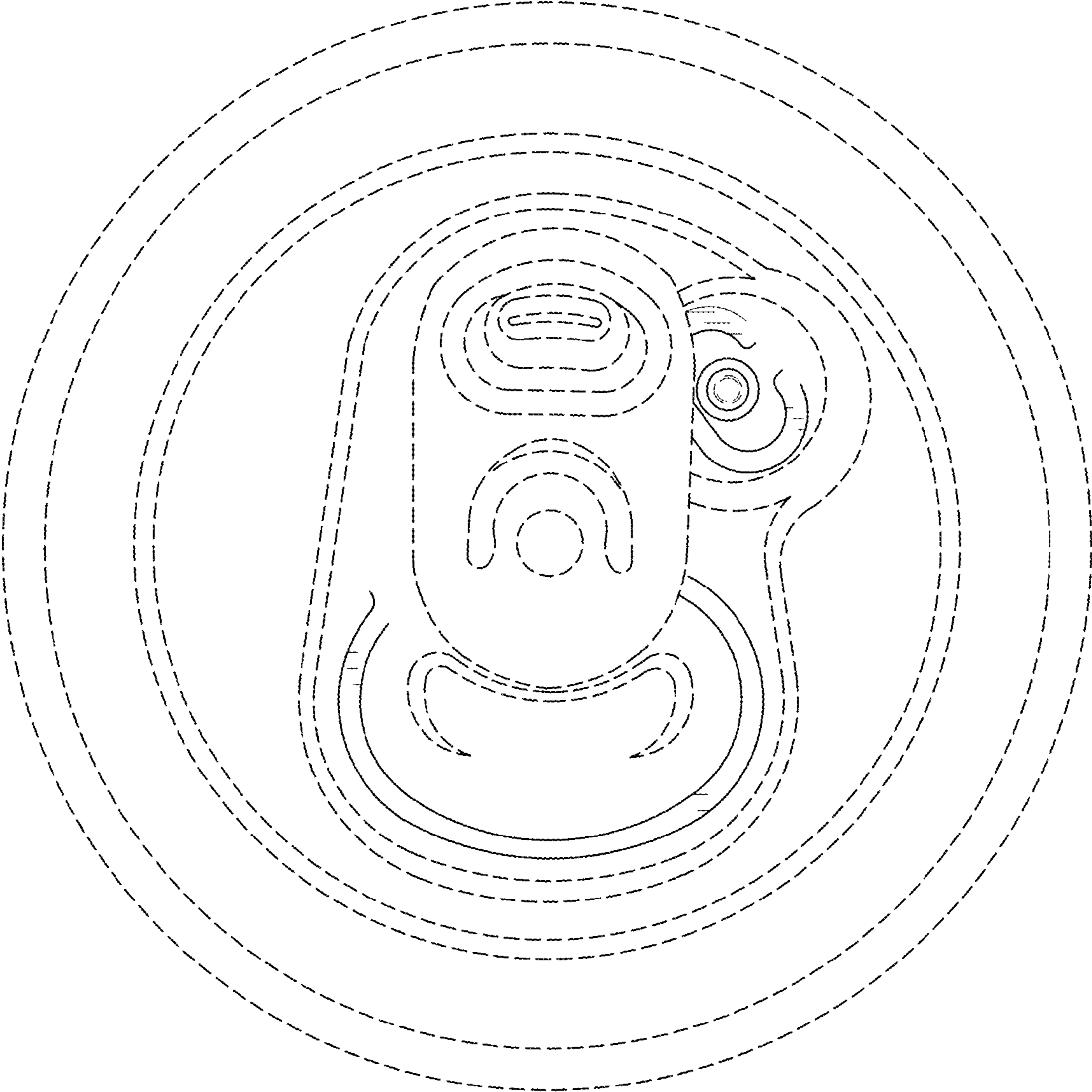


FIG. 3

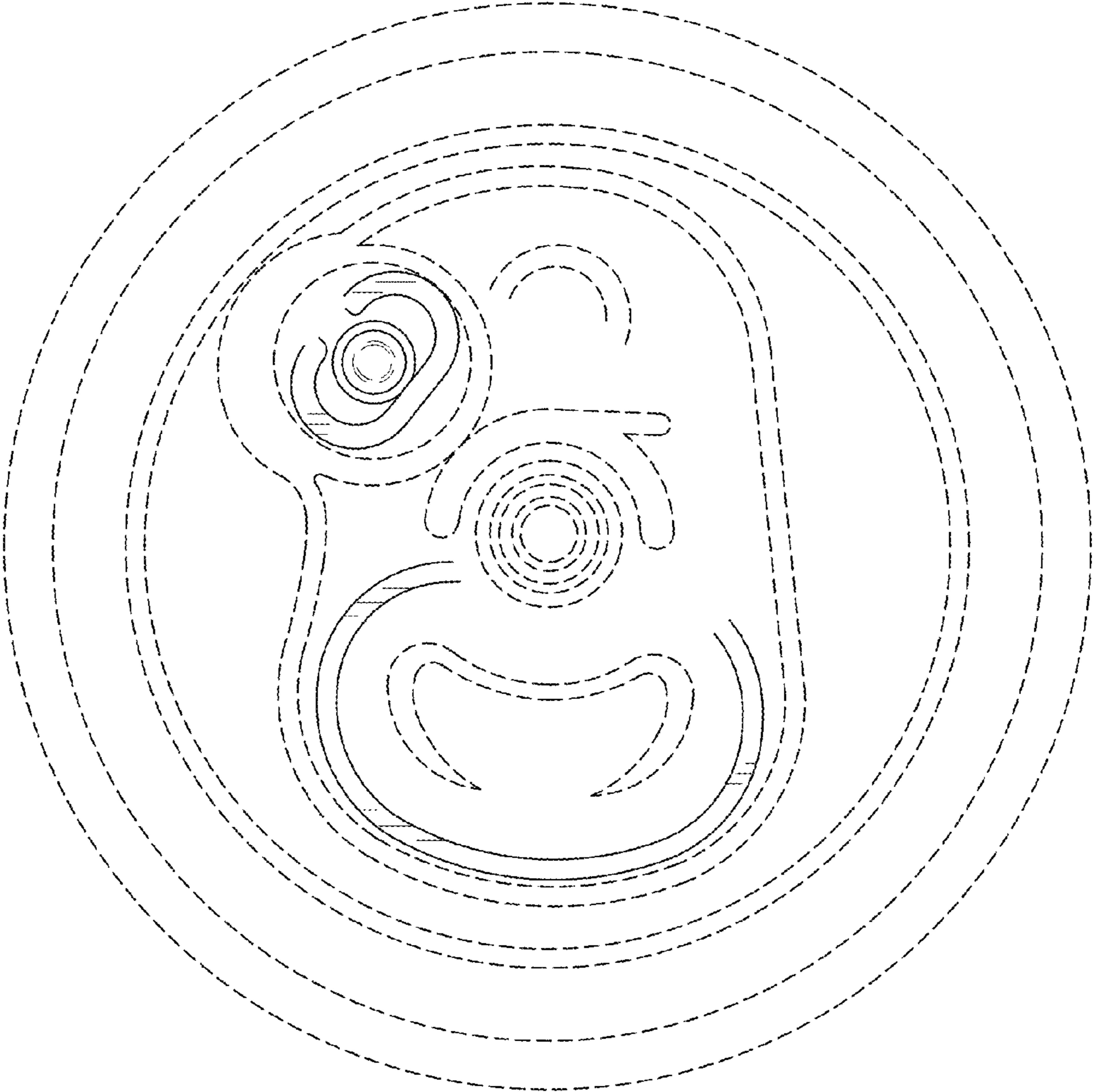


FIG. 4

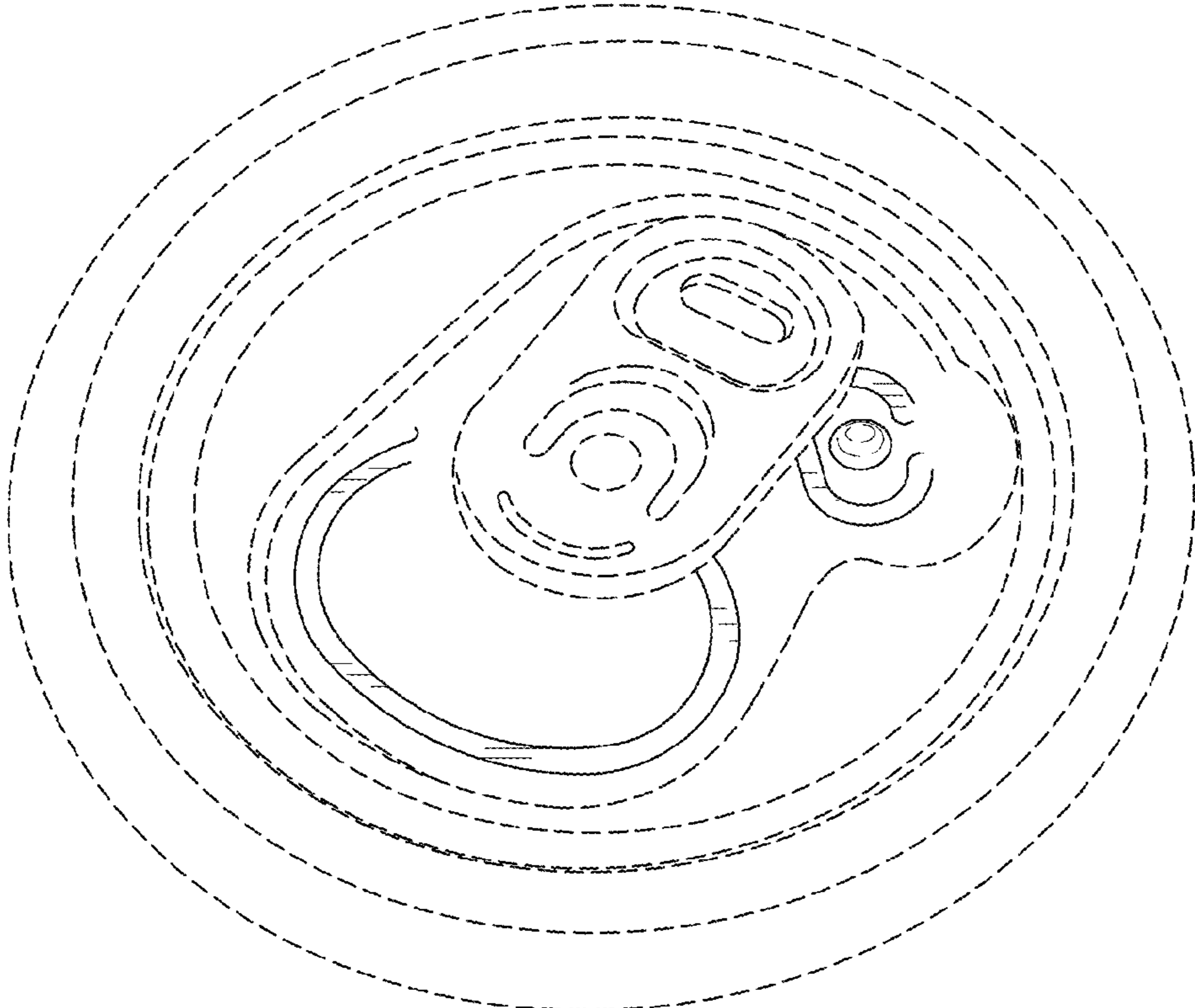


FIG. 5

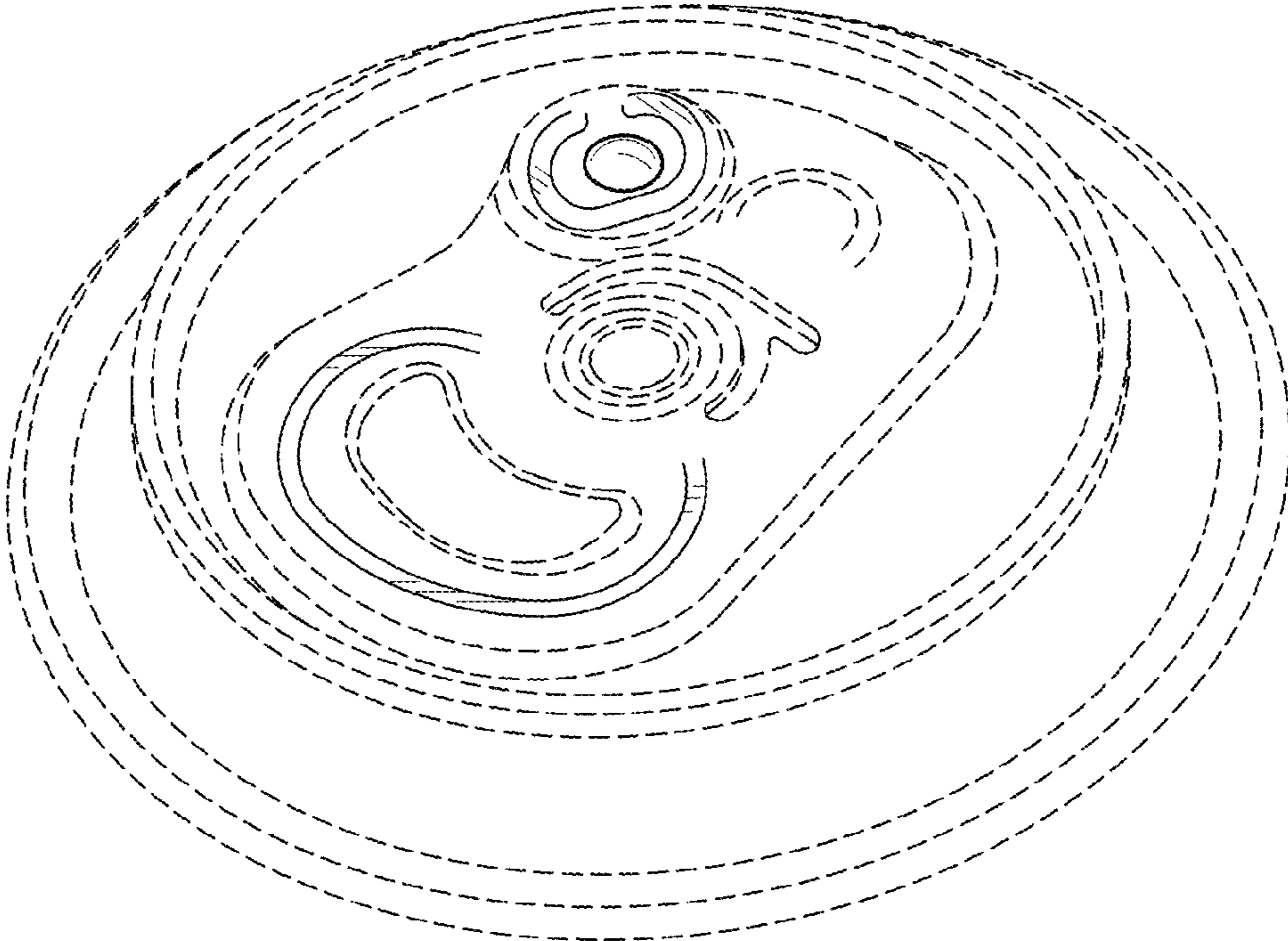


FIG. 6

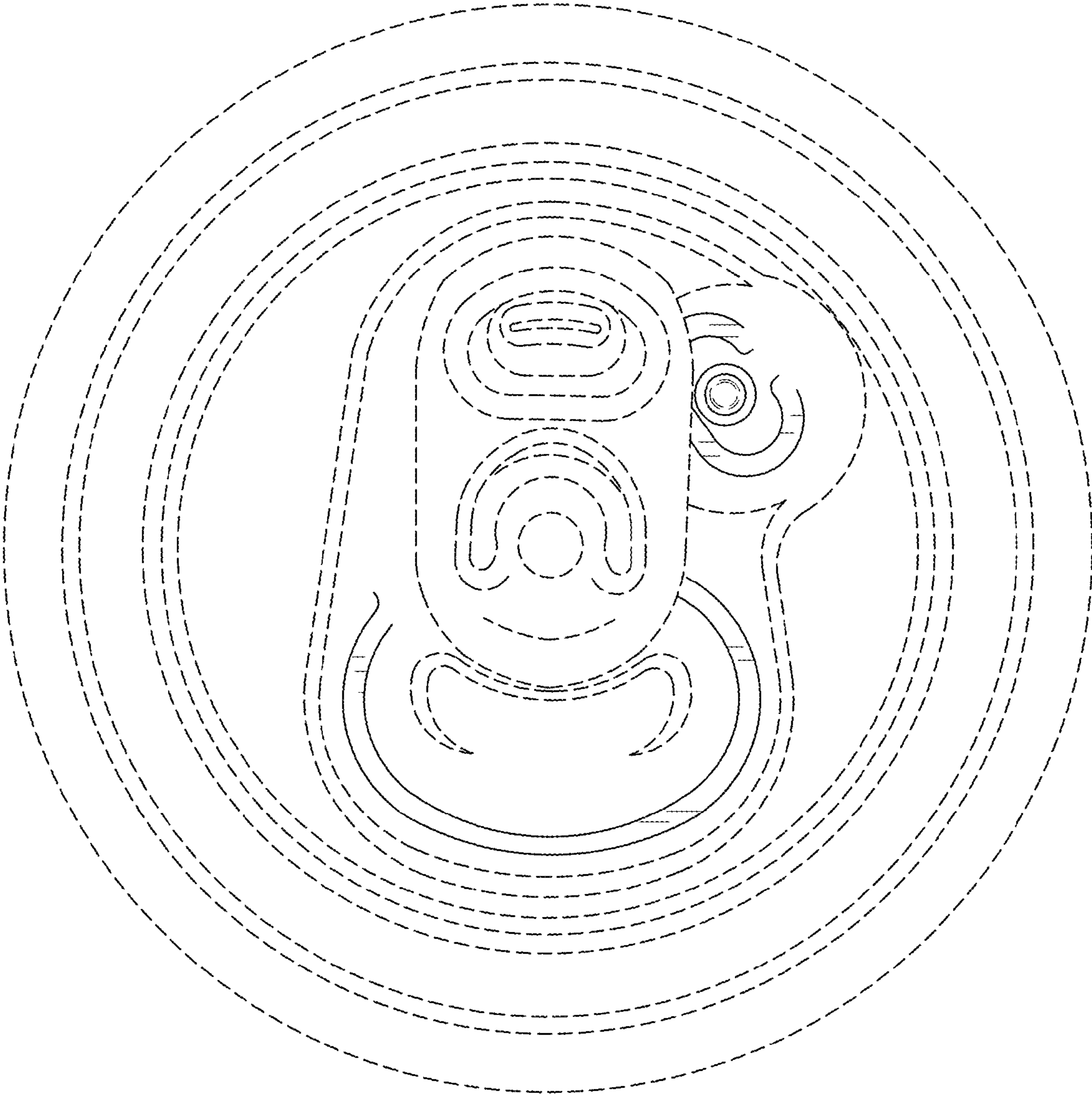


FIG. 7

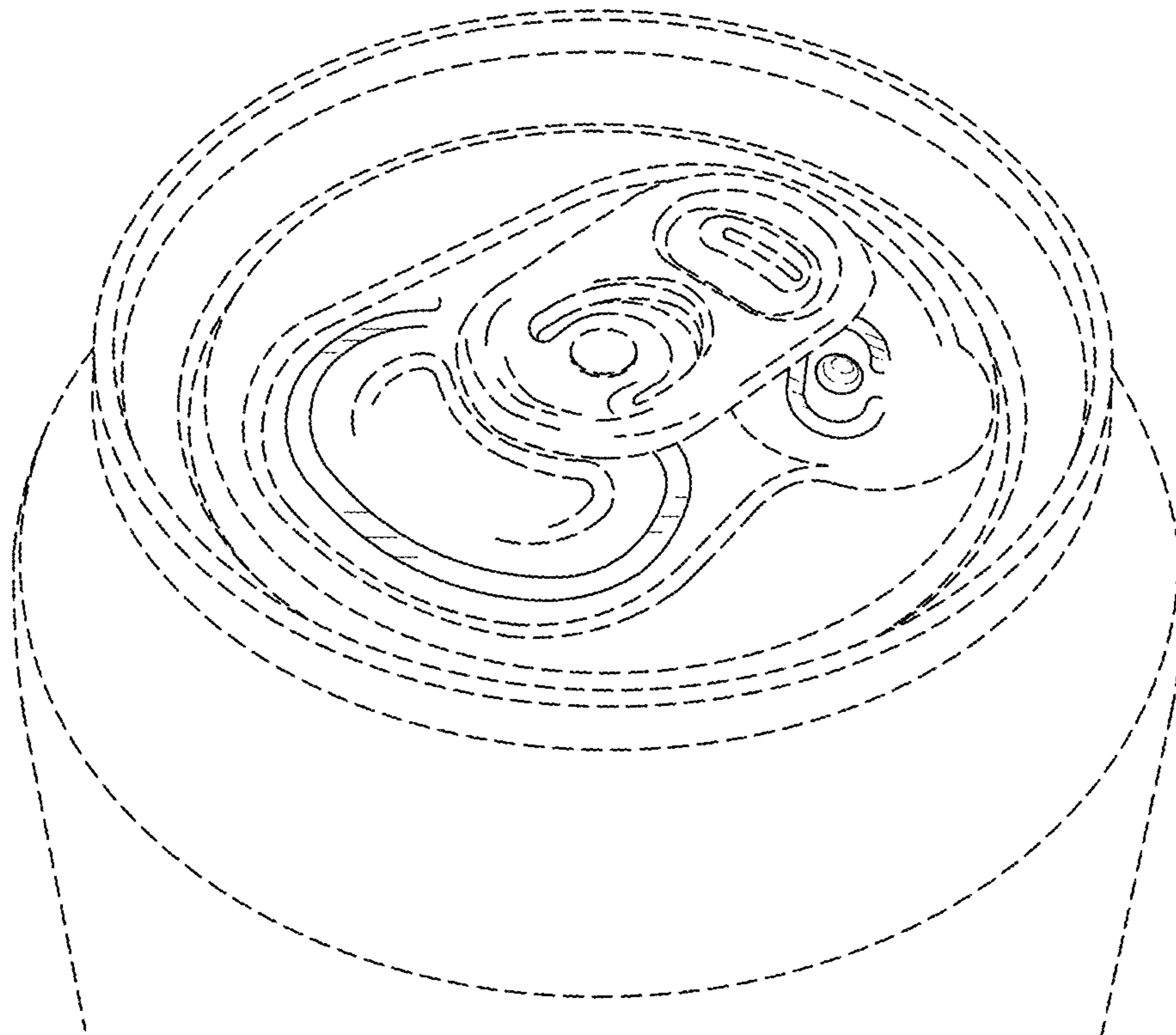


FIG. 8