



US00D804563S

(12) **United States Design Patent** (10) **Patent No.:** **US D804,563 S**
Ono (45) **Date of Patent:** **** Dec. 5, 2017**

(54) **APERTURE ADJUSTING DEVICE**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **FUJIFILM Corporation**, Tokyo (JP)

JP D1473430 * 5/2013

(72) Inventor: **Shuji Ono**, Tokyo (JP)

OTHER PUBLICATIONS

(73) Assignee: **FUJIFILM Corporation**, Tokyo (JP)

Miolta Aperture Blade Assembly, announced May 18, 2014 [online], [site visited Jul. 6, 2017] Available from Internet URL: <https://www.youtube.com/watch?v=3StKZn_psWc> at approximately 5:35.*

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

(21) Appl. No.: **29/554,990**

(Continued)

(22) Filed: **Feb. 17, 2016**

(30) **Foreign Application Priority Data**

Aug. 21, 2015 (JP) 2015-018432

(51) **LOC (10) Cl.** **16-05**

(52) **U.S. Cl.**
USPC **D16/219**

(58) **Field of Classification Search**

USPC ... D14/307, 218, 130, 144, 140.2, 132, 341, D14/345, 358, 242, 231, 317, 203.8, D14/209.1, 212, 421-423; D16/200-220, D16/229, 230, 242, 244, 245, 238; D20/21, 38; D23/283, 305; D25/20, 58; D10/21, 25, 29, 53, 10, 49, 50; D26/93; D9/430; D6/338
CPC H04N 7/181; H04N 7/183; H04N 7/18; H04N 3/08; H04N 5/23248; H04N 5/23287; H04N 5/23258; H04N 5/2251; H04N 5/2252; H04N 2007/145; H04N 7/00; G01C 11/025; G03B 15/00; G03B 15/03; G03B

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,214,250 A * 1/1917 Wollensak G03B 9/22
396/476
3,136,236 A * 6/1964 Hartl G03B 9/08
396/510

(Continued)

Primary Examiner — Barbara Fox

(74) *Attorney, Agent, or Firm* — Birch, Stewart, Kolasch & Birch, LLP

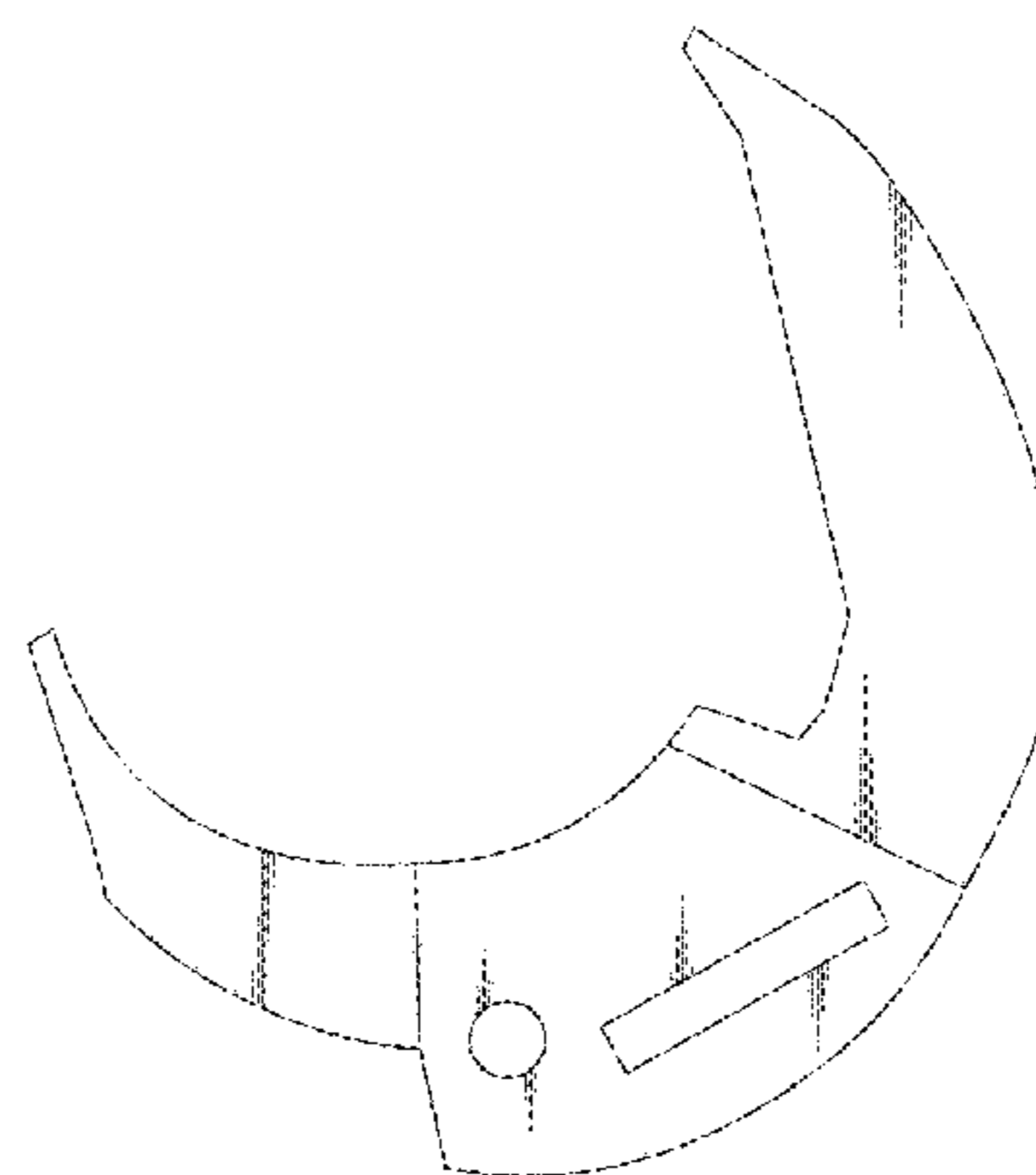
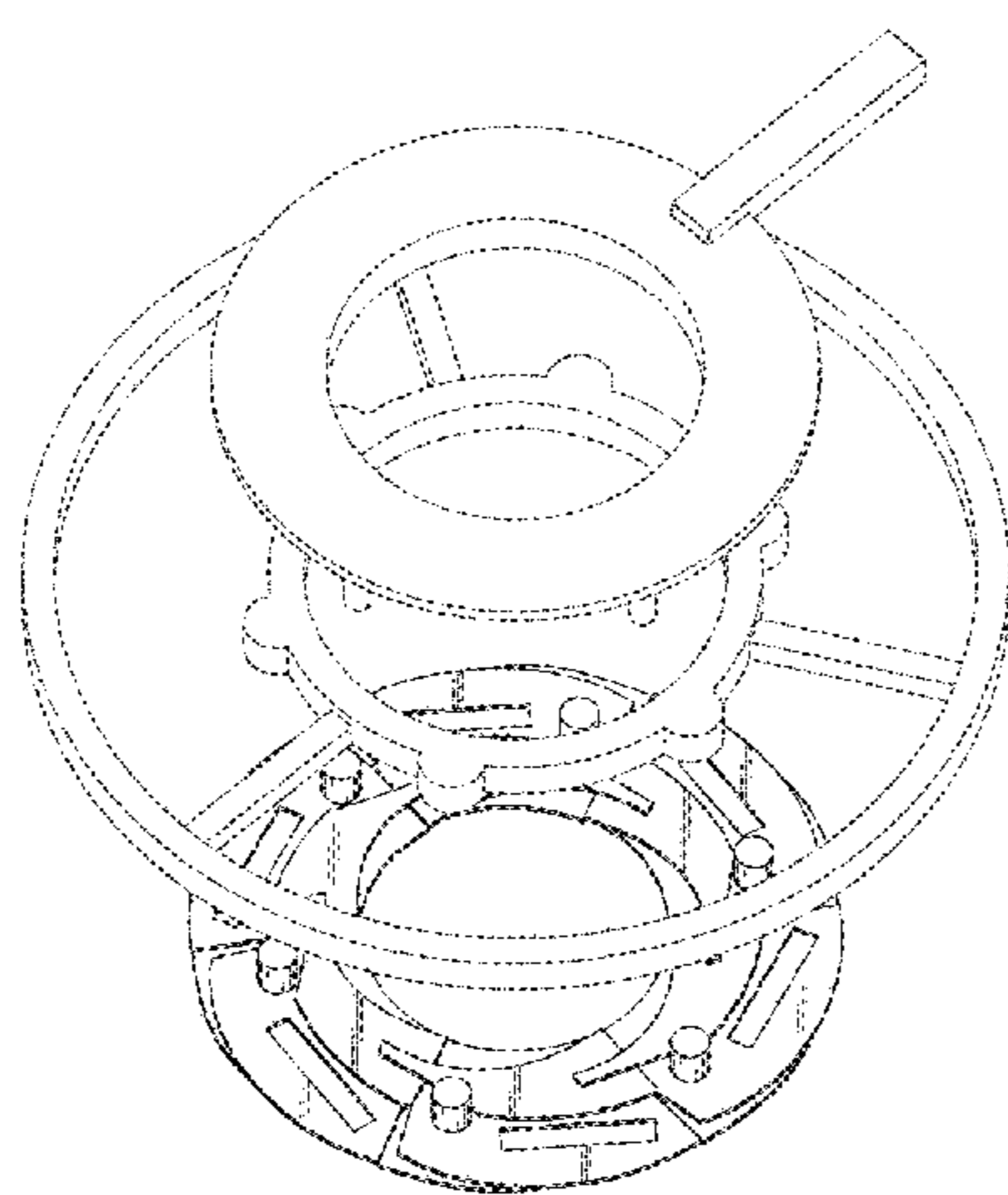
(57) **CLAIM**

The ornamental design for an aperture adjusting device, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an aperture adjusting device showing the new design; FIG. 2 is an exploded view thereof; FIG. 3 is a front view thereof; FIG. 4 is a rear view thereof; FIG. 5 is a top plan view thereof; FIG. 6 is a bottom plan view thereof; FIG. 7 is a right side view thereof; FIG. 8 is a left side view thereof; FIG. 9 is a front perspective view thereof showing condition in which shield area is largest; FIG. 10 is a front view thereof; FIG. 11 is an end view of the section taken along line 11-11 on FIG. 3; and, FIG. 12 is an enlarged front view of an aperture wing shown separately for ease of illustration. The broken lines shown in the drawings depict portions of the aperture adjusting device that form no part of the claimed design.

1 Claim, 11 Drawing Sheets



(58) **Field of Classification Search**
 CPC 17/56; G03B 17/02; G03B 17/30; G03B
 17/04; G03B 17/00; G03B 19/04; G03B
 3/00; G03B 9/08; G03B 9/06; G03B
 9/07; B60R 1/00; B60R 2300/105; G08B
 13/19619; G08B 13/1963; G08B
 13/19632; F16M 11/04; F16M 13/00;
 Y02E 60/12; G02B 5/00
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,897,682	A *	1/1990	Kuwana	G03B 9/06 359/227
5,365,298	A *	11/1994	Fox	G03B 9/24 396/453
5,394,212	A *	2/1995	Morizumi	G03B 9/06 396/505
5,765,060	A *	6/1998	Shimizu	G03B 7/099 396/268
5,926,663	A *	7/1999	Suzuki	G03B 9/06 396/449
6,239,923	B1 *	5/2001	Takezawa	G02B 5/005 359/738
6,867,932	B2 *	3/2005	Noguchi	G03B 9/10 359/739
8,308,380	B2 *	11/2012	Youn	G03B 11/043 359/828
9,007,671	B2 *	4/2015	Yoshizawa	G03B 9/06 359/230
D756,440	S *	5/2016	Yoshizawa	D16/219
9,658,515	B2 *	5/2017	Nakano	G03B 9/06
2006/0033974	A1 *	2/2006	Sato	G03B 9/06 359/227
2009/0116832	A1 *	5/2009	Azuma	G03B 9/06 396/510

2010/0014851	A1 *	1/2010	Furuyama	G02B 7/102 396/531
2013/0195436	A1 *	8/2013	Yamada	G03B 9/06 396/260
2013/0279897	A1 *	10/2013	Ichikawa	G03B 9/06 396/510
2013/0321697	A1 *	12/2013	Kang	G02B 5/005 348/373
2014/0111843	A1 *	4/2014	Kozu	G02B 5/005 359/230
2015/0043903	A1 *	2/2015	Shibasaki	G03B 9/06 396/510
2015/0086190	A1 *	3/2015	Kozu	G03B 9/06 396/462
2015/0160533	A1 *	6/2015	Yoshizawa	G03B 9/06 396/510
2016/0139491	A1 *	5/2016	Nakano	G03B 9/06 396/510
2016/0178989	A1 *	6/2016	Ochi	G03B 9/06 396/510

OTHER PUBLICATIONS

Nikon SLR Lens, announced Mar. 24, 2010 [online], [site visited Jul. 6, 2017] Available from Internet URL: <<https://www.dpreview.com/forums/post/34877812>>.*
 Crystal Camera Repair, announced 2009 [online], [site visited Jul. 6, 2017] Available from Internet URL: <<http://crystalcamera.com/slideshow.htm>>.*
 DSLR Camera Lens Aperture, announced May 9, 2011 [online], [site visited Jul. 6, 2017] Available from Internet URL: <<http://www.tested.com/tech/photography/2286-how-your-dslr-camera-lens-aperture-really-works/>>.*
 Fujinon Aperture Blade, announced Dec. 4, 2015 [online], [site visited Jul. 6, 2017] Available from Internet URL: <<https://www.youtube.com/watch?v=s-XX1q528xw>> at approximately 5:03.*

* cited by examiner

FIG. 1

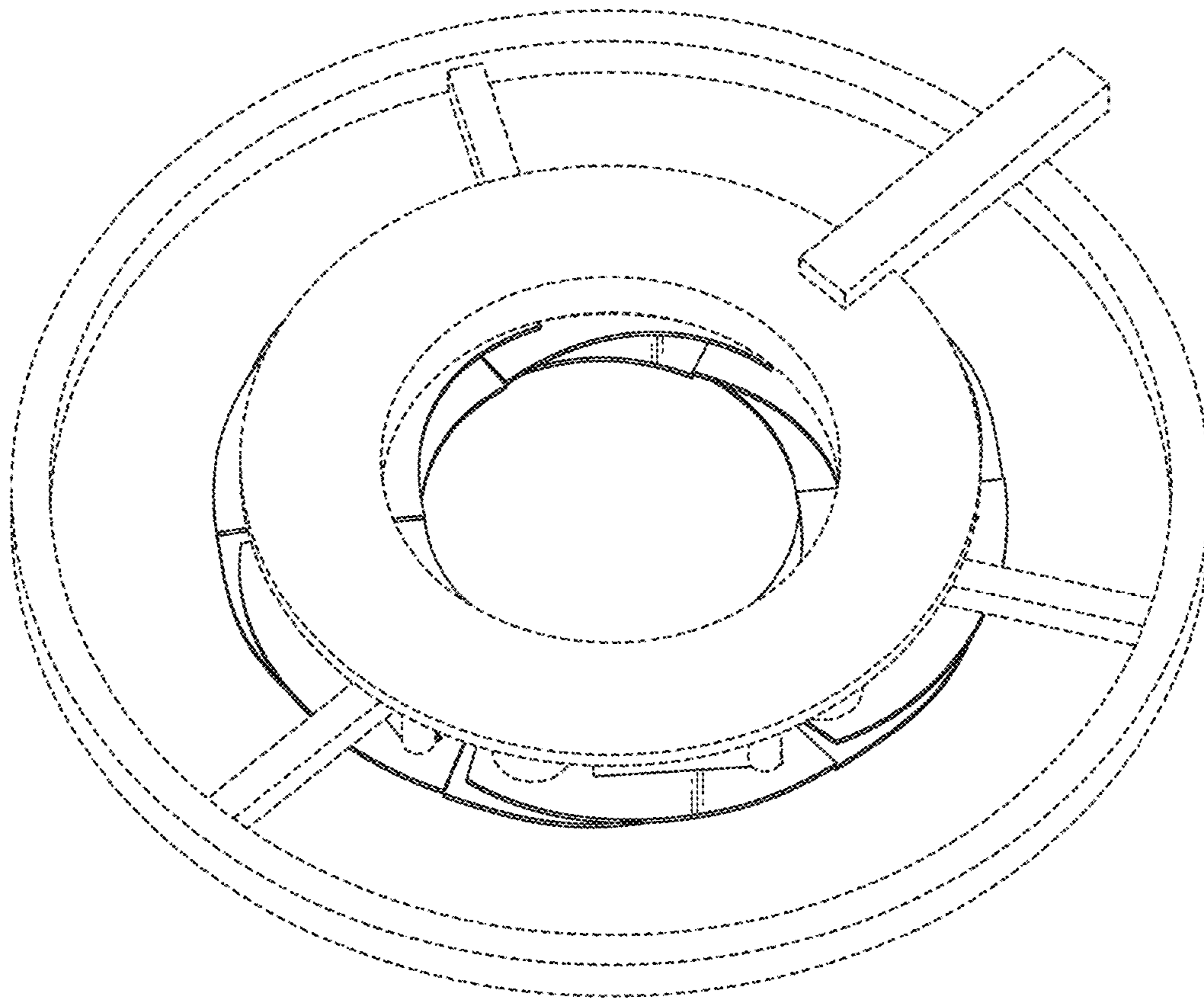


FIG. 2

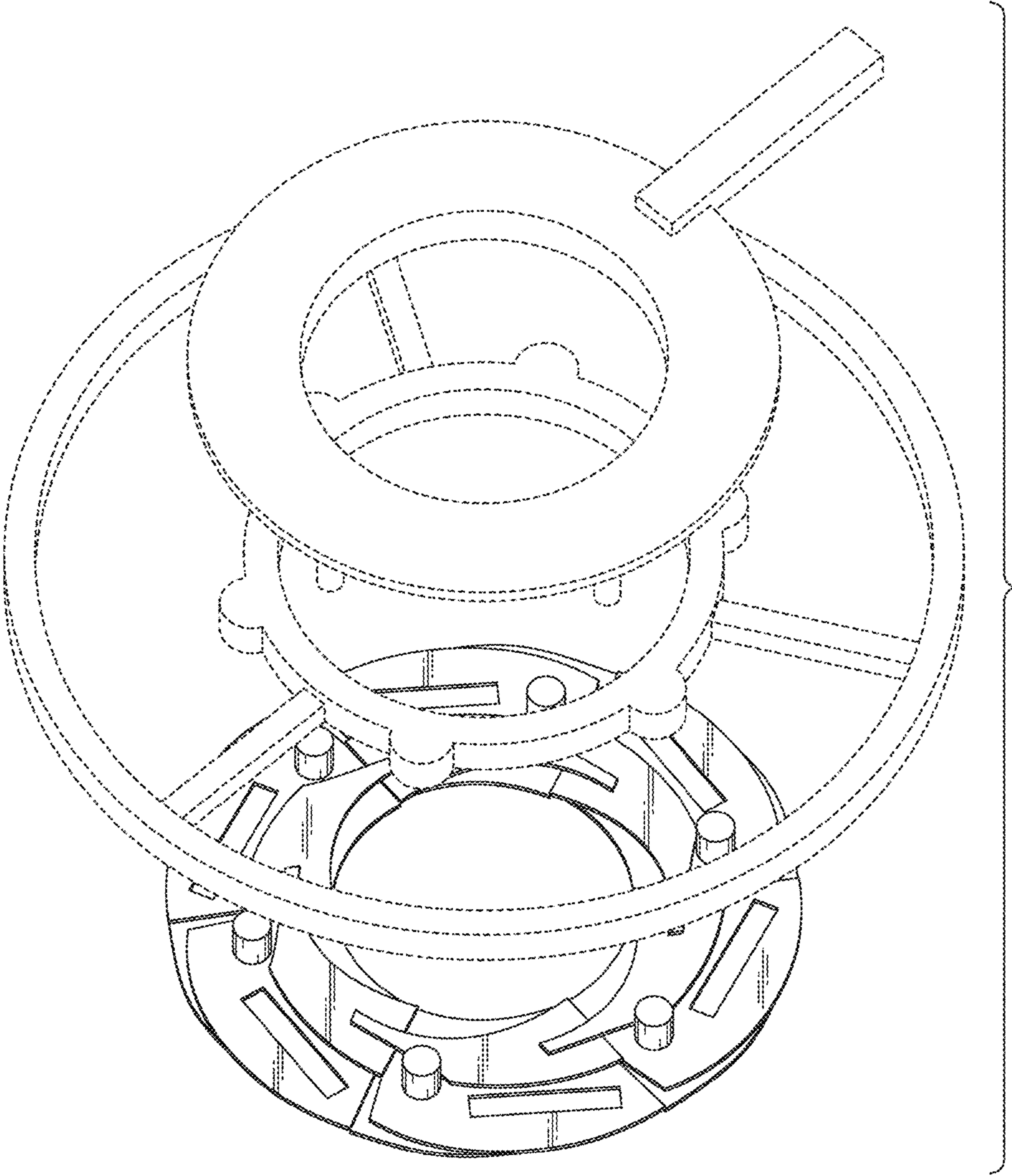


FIG. 3

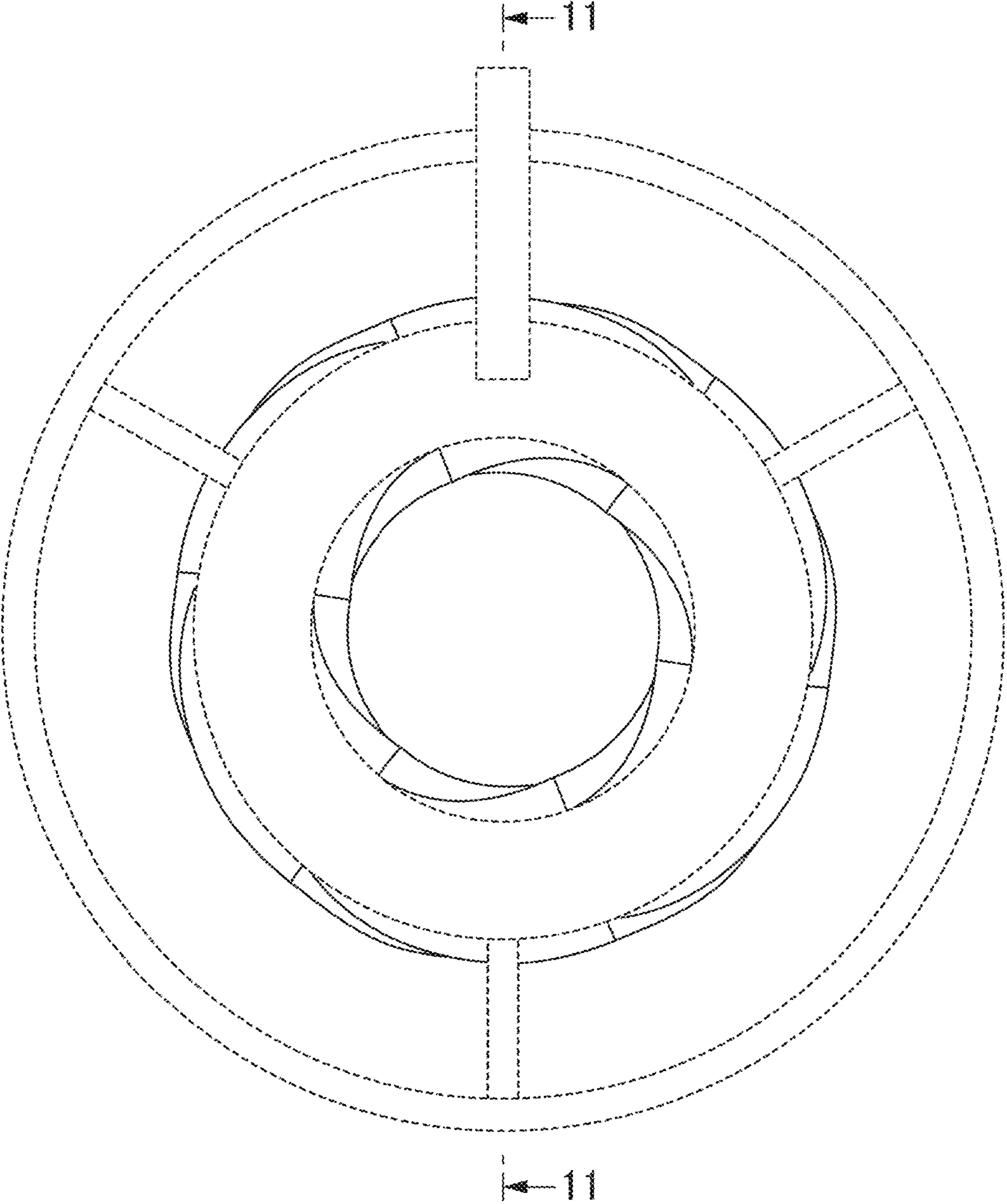


FIG. 4

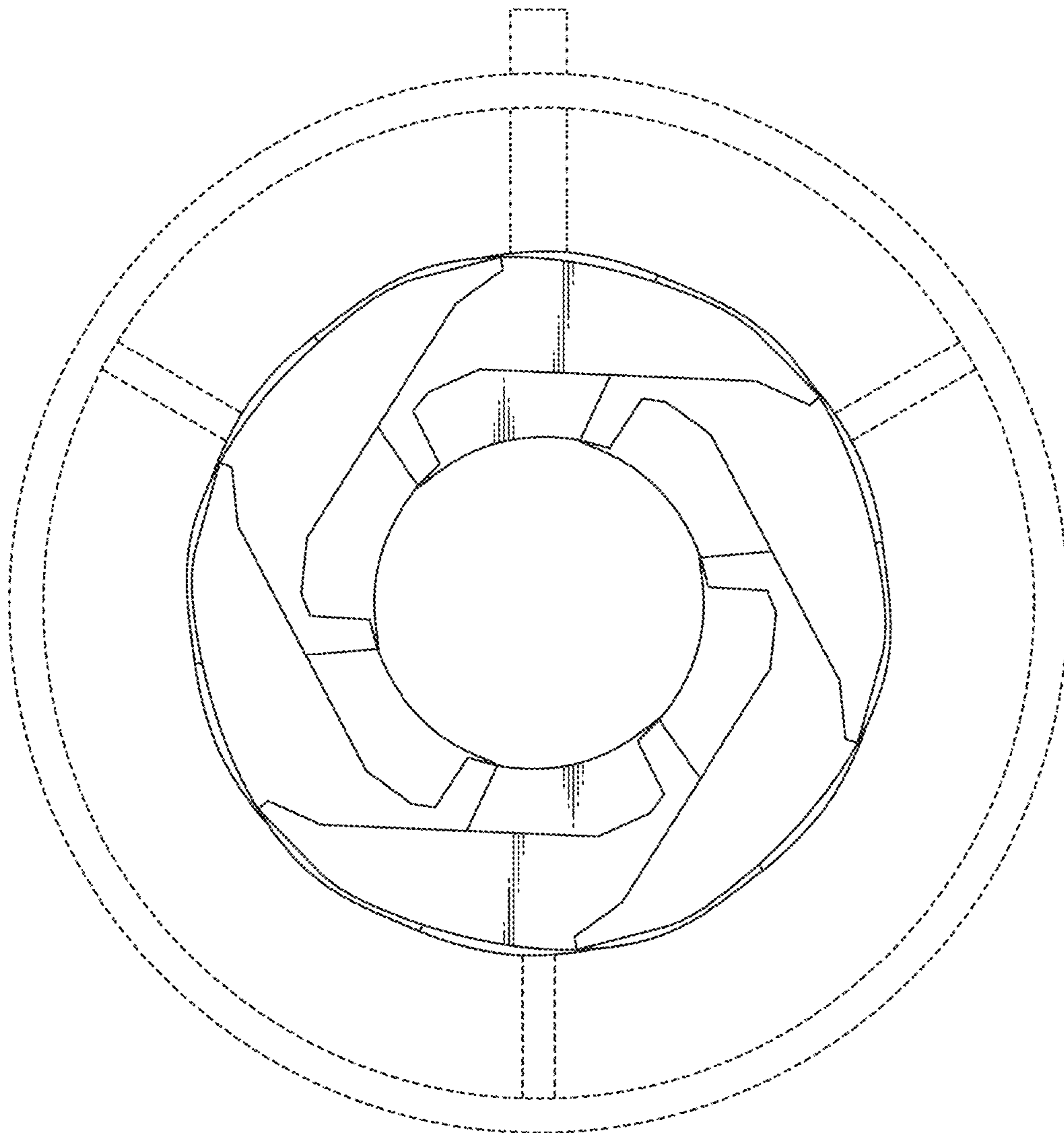


FIG. 5



FIG. 6



FIG. 7

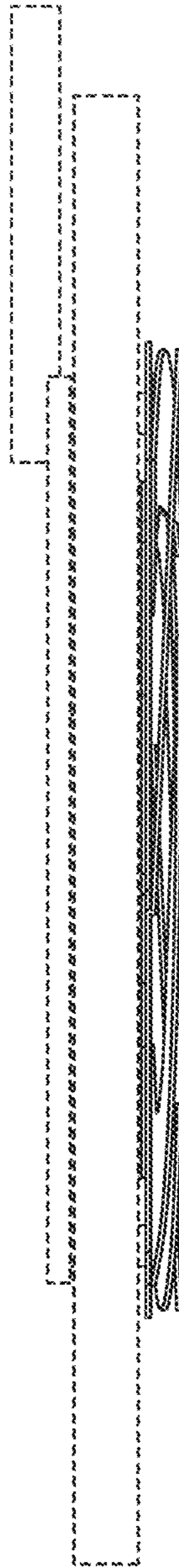


FIG. 8

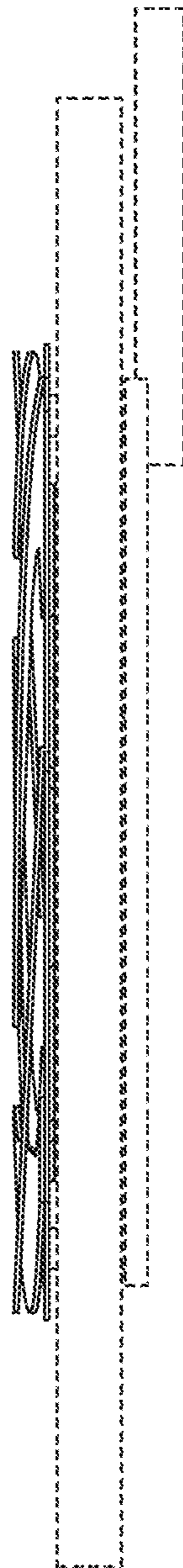


FIG. 9

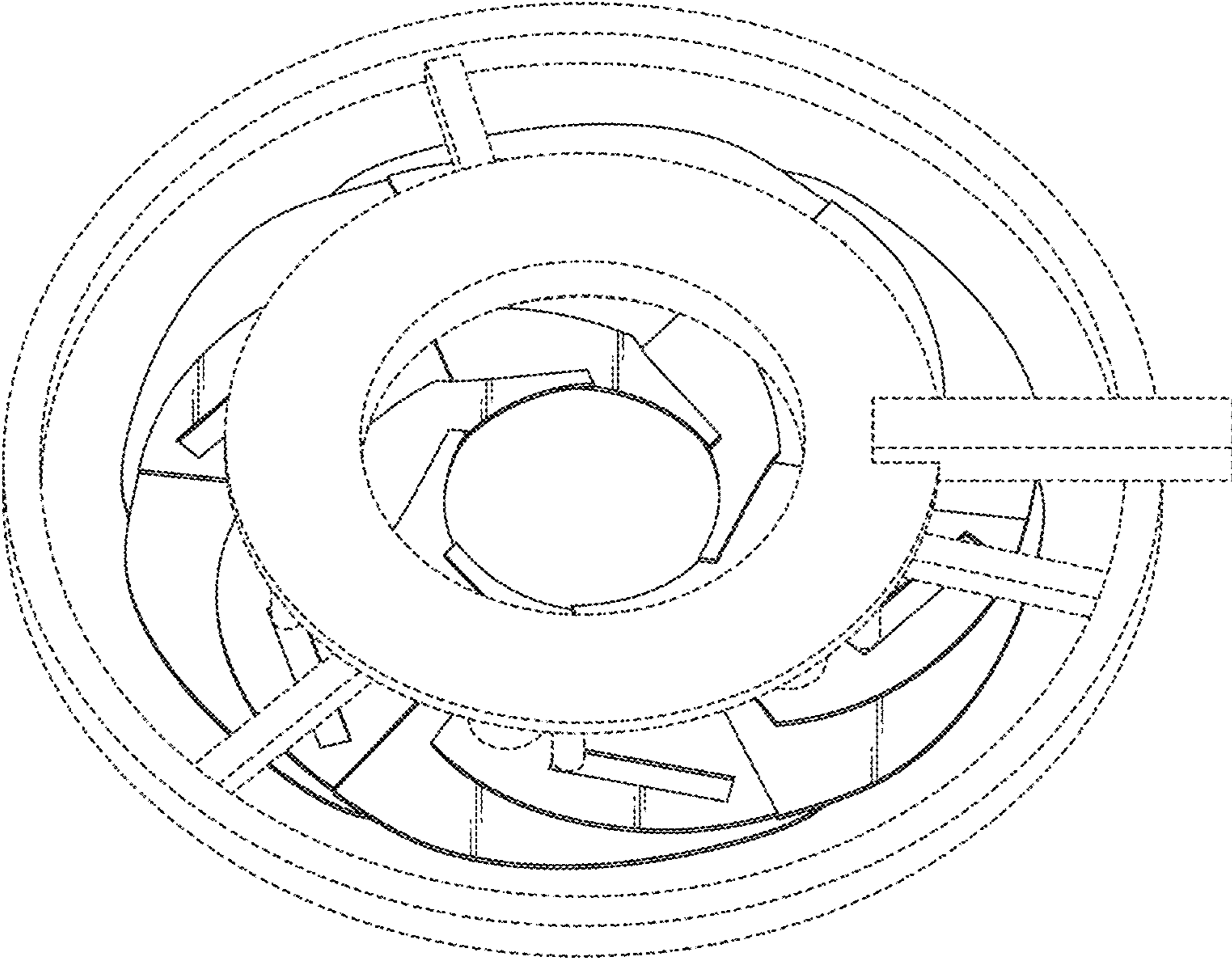


FIG. 10

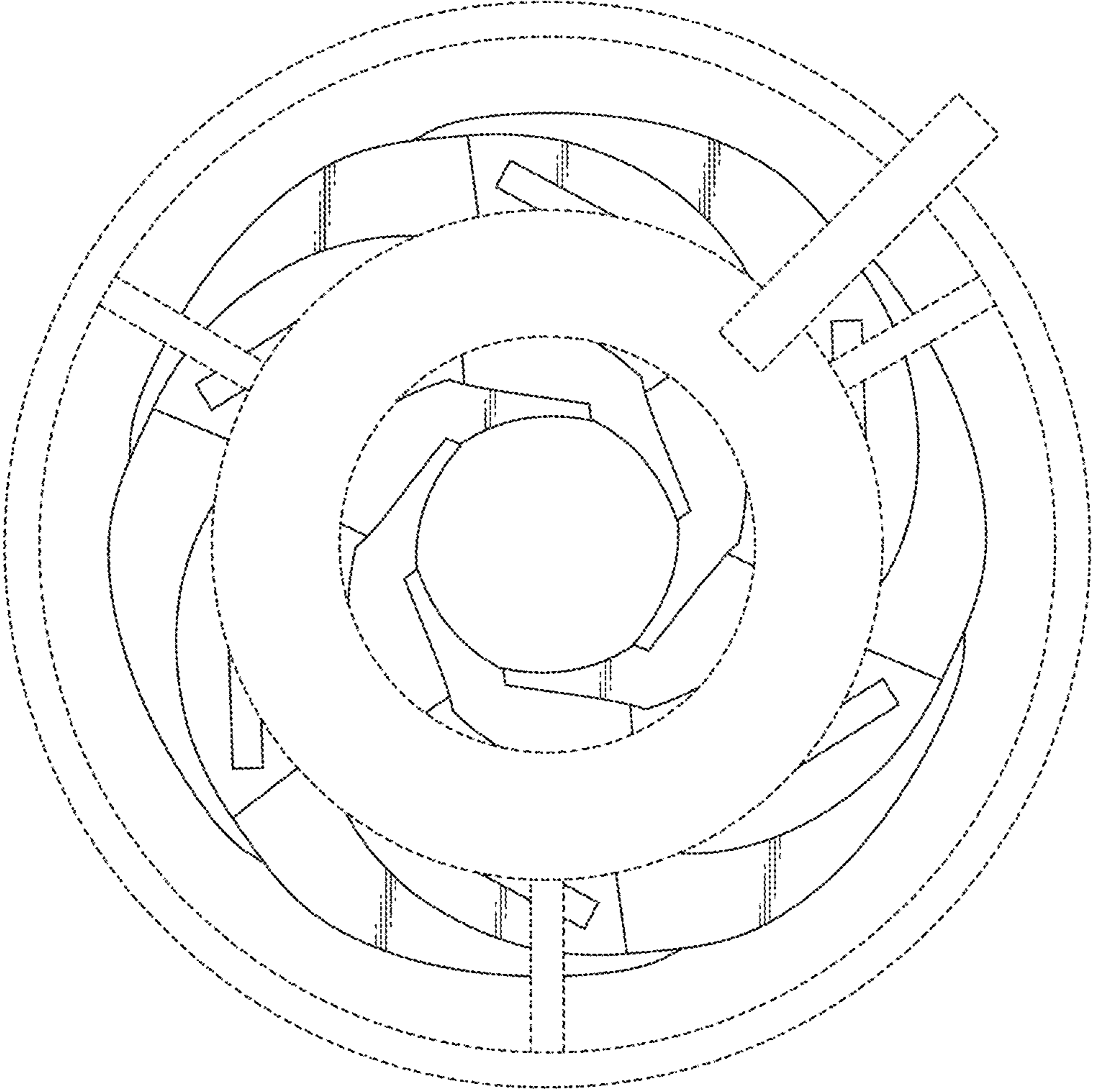


FIG. 11

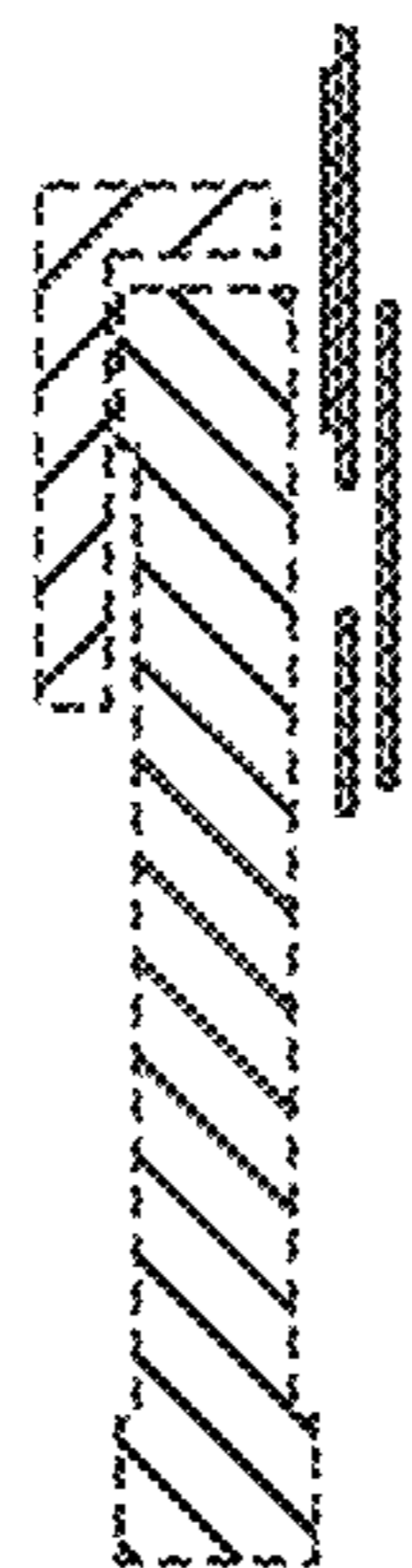
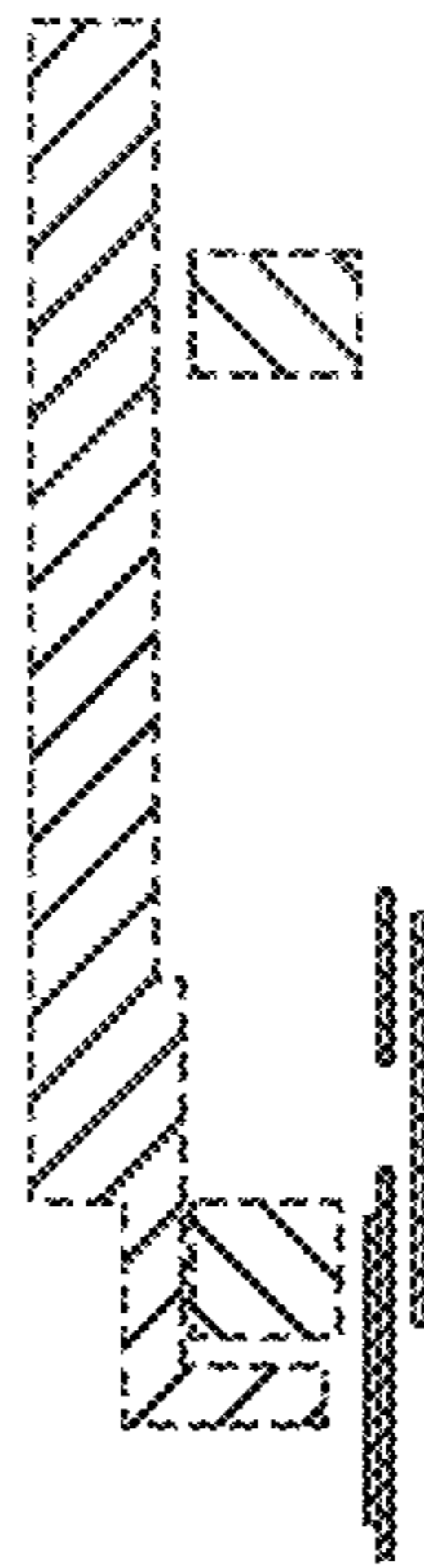


FIG. 12

