



US00D877325S

(12) **United States Design Patent** (10) **Patent No.:** **US D877,325 S**
Arrieta et al. (45) **Date of Patent:** **** Mar. 3, 2020**

(54) **INFLATABLE THERAPEUTIC TREATMENT BALLOON DEVICE**

(71) Applicant: **Dalent, LLC**, Coral Gables, FL (US)

(72) Inventors: **Agustin Arrieta**, Miami, FL (US);
Peter Flores, Miami, FL (US); **Shawn McCoy**, Little Rock, AR (US); **Michael Dollar**, Hot Springs Village, AR (US)

(73) Assignee: **Dalent, LLC**, Coral Gables, FL (US)

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

(21) Appl. No.: **29/694,043**

(22) Filed: **Jun. 6, 2019**

(51) **LOC (12) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/112**

(58) **Field of Classification Search**
USPC D24/127-131, 112-114, 133, 186;
606/181, 185; 604/264, 523-528, 272,
604/187, 158, 164.01-164.11, 181, 184,
604/227; 600/101, 139, 143;
128/200.24, 207.14, 207.15
CPC .. A61M 25/065; A61M 5/42; A61M 25/0612;
A61M 25/00; A61M 39/00; A61M 27/00;
A61M 25/0043; A61M 25/0067; A61M
25/0097; A61F 2/958
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

705,346 A	7/1902	Hamilton
1,735,519 A	11/1929	Vance
3,799,170 A	3/1974	Walsh et al.
3,903,893 A	9/1975	Scheer
4,311,146 A	1/1982	Wonder
4,312,353 A	1/1982	Shahbadian

4,341,218 A	7/1982	U
4,819,637 A	4/1989	Dormandy, Jr. et al.
5,021,043 A	6/1991	Becker et al.
5,035,686 A	7/1991	Crittenden et al.
5,098,379 A	3/1992	Conway et al.
5,169,386 A	12/1992	Becker et al.
5,176,638 A	1/1993	Don Michael
5,304,123 A	4/1994	Atala et al.
5,370,899 A	12/1994	Conway et al.
5,389,087 A *	2/1995	Miraki A61M 25/104 604/160
5,395,331 A	3/1995	O'Neill et al.
5,569,219 A	10/1996	Hakki et al.
5,681,344 A	10/1997	Kelly
5,788,681 A	8/1998	Weaver et al.

(Continued)

Primary Examiner — David G Muller

(74) *Attorney, Agent, or Firm* — Knobbe Martens Olson & Bear LLP

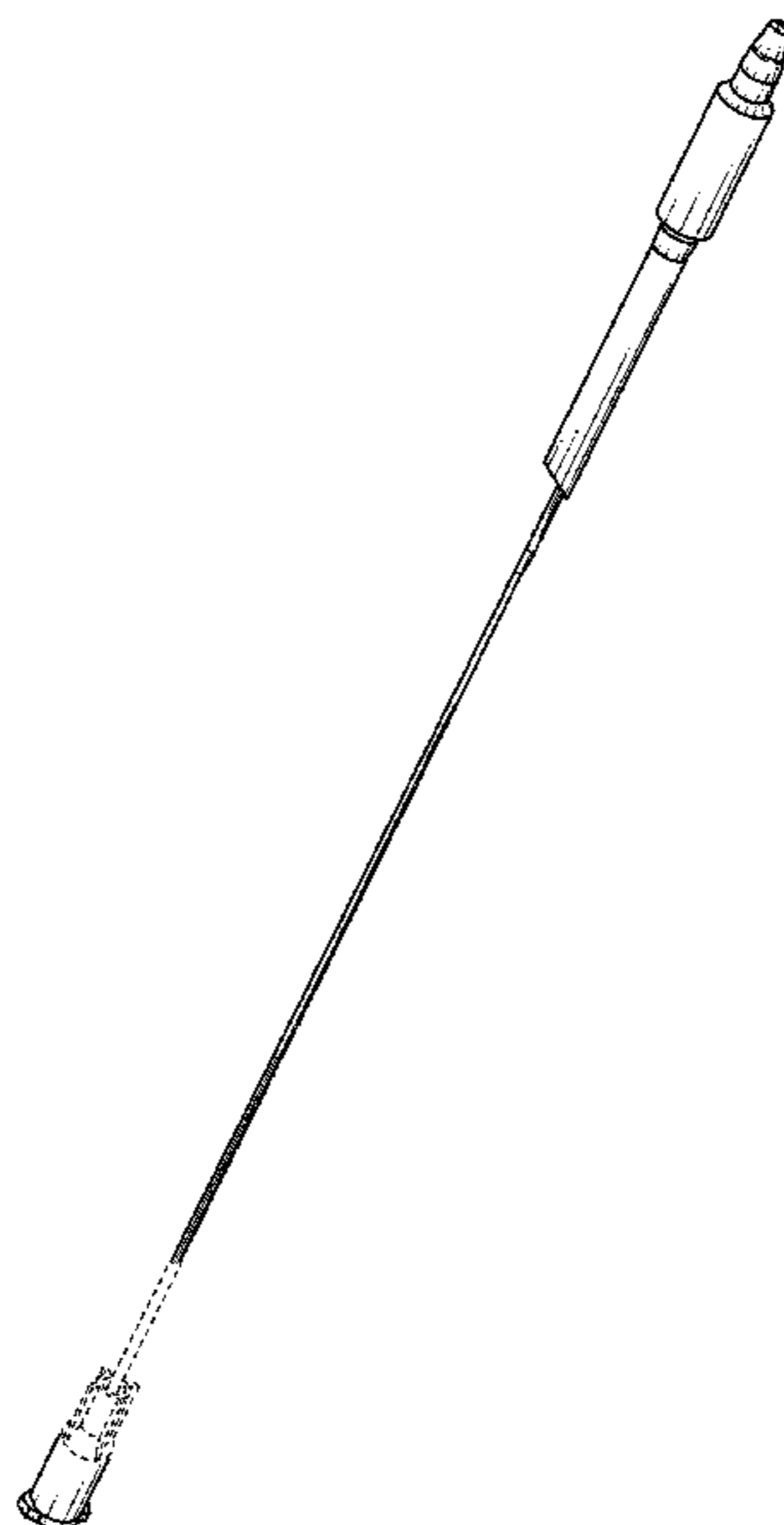
(57) **CLAIM**

The ornamental design for an inflatable therapeutic treatment balloon device, as shown and described.

DESCRIPTION

FIG. 1 is a left front perspective view of an embodiment of an inflatable therapeutic treatment balloon device embodying the new design.
 FIG. 2 is a left rear perspective view thereof.
 FIG. 3 is a right view thereof.
 FIG. 4 is a top view.
 FIG. 5 is a left view.
 FIG. 6 is a bottom view.
 FIG. 7 is a front view.
 FIG. 8 is an enlarged scale front view of FIG. 7.
 FIG. 9 is a rear view; and,
 FIG. 10 is an enlarged scale rear view of FIG. 9.
 Broken lines are used to illustrate features of the inflatable therapeutic treatment balloon device which form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,325,777 B1	12/2001	Zadno-Azizi et al.	8,951,225 B2	2/2015	Evard et al.
6,447,540 B1	9/2002	Fontaine et al.	8,968,269 B2	3/2015	Becker
7,108,706 B2	9/2006	Hogle	9,011,412 B2	4/2015	Albritton, IV et al.
7,169,163 B2	1/2007	Becker	9,101,430 B2	8/2015	Müller et al.
7,462,175 B2	12/2008	Chang et al.	9,101,739 B2	8/2015	Lesch, Jr. et al.
7,497,853 B2 *	3/2009	Fischer A61M 25/0136 604/528	9,107,687 B2	8/2015	Kinoshita et al.
7,500,971 B2	3/2009	Chang et al.	9,167,961 B2	10/2015	Makower et al.
7,578,099 B2	8/2009	Schlegel	9,192,748 B2	11/2015	Ressemann et al.
7,591,832 B2	9/2009	Eversull et al.	9,204,893 B2	12/2015	Rizk et al.
7,604,627 B2	10/2009	Kojouri	9,220,879 B2	12/2015	Chang et al.
7,645,272 B2	1/2010	Chang et al.	9,226,800 B2	1/2016	Burg et al.
7,654,997 B2	2/2010	Makower et al.	D750,260 S *	2/2016	Sauer D24/186
7,670,284 B2	3/2010	Padget et al.	9,248,266 B2	2/2016	Chandler et al.
7,678,099 B2	3/2010	Ressemann et al.	D753,289 S *	4/2016	Shimon D24/112
7,695,490 B2	4/2010	Hogle	D759,235 S *	6/2016	Rizvi D24/127
7,717,933 B2	5/2010	Becker	9,370,649 B2	6/2016	Chang et al.
7,720,521 B2	5/2010	Chang et al.	9,457,175 B2	10/2016	Becker
7,740,642 B2	6/2010	Becker	9,463,307 B2	10/2016	Vaccaro et al.
7,744,620 B2	6/2010	Pedersen et al.	9,510,743 B2	12/2016	Chandler et al.
7,753,929 B2	7/2010	Becker	9,572,954 B2	2/2017	Pinchuk et al.
7,753,930 B2	7/2010	Becker	9,603,506 B2	3/2017	Goldfarb et al.
7,762,984 B2 *	7/2010	Kumoyama A61M 25/0023 604/103.04	9,610,428 B2	4/2017	Muni et al.
7,771,409 B2	8/2010	Chang et al.	9,649,477 B2	5/2017	Muni et al.
7,799,048 B2	9/2010	Hudson et al.	9,687,263 B2	6/2017	Schreck et al.
7,803,150 B2	9/2010	Chang et al.	9,694,163 B2	7/2017	Chandler et al.
7,854,744 B2	12/2010	Becker	9,700,326 B2	7/2017	Morriss et al.
7,879,061 B2	2/2011	Keith et al.	9,700,705 B2	7/2017	Lesch, Jr. et al.
7,918,871 B2	4/2011	Truitt et al.	9,700,706 B2	7/2017	Becker
D638,938 S *	5/2011	Doll D24/133	9,713,700 B2	7/2017	Chang et al.
D643,115 S	8/2011	Gonzales et al.	9,770,577 B2	9/2017	Li et al.
D643,531 S *	8/2011	van der Weiden D24/133	9,839,347 B2	12/2017	Chandler et al.
8,100,933 B2	1/2012	Becker	9,955,852 B2	5/2018	Kesten et al.
8,137,375 B2	3/2012	Hudson et al.	9,987,025 B2	6/2018	Becker
8,146,400 B2	4/2012	Goldbar et al.	10,004,863 B2	6/2018	Vazales et al.
8,172,828 B2	5/2012	Chang et al.	10,016,580 B2	7/2018	Chandler et al.
8,277,478 B2	10/2012	Drontle et al.	10,034,682 B2	7/2018	Muni et al.
8,282,667 B2	10/2012	Drontle et al.	10,065,028 B2	9/2018	Liberatore et al.
8,317,816 B2	11/2012	Becker	10,085,889 B2	10/2018	Chan et al.
8,394,400 B2	3/2013	Bourne et al.	10,124,154 B2	11/2018	Evard et al.
D679,803 S	4/2013	Carter	10,137,285 B2	11/2018	Jenkins et al.
8,425,457 B2	4/2013	John et al.	D835,777 S *	12/2018	Seaver D24/112
8,506,589 B2	8/2013	Maloney	10,143,591 B2	12/2018	Ha et al.
8,529,546 B2	9/2013	Alvarez	10,154,850 B2	12/2018	Janjua
8,568,438 B2	10/2013	Burbank et al.	10,166,369 B2	1/2019	Jenkins et al.
D695,891 S *	12/2013	Biel D24/112	10,350,097 B2 *	7/2019	Komatsu A61F 2/88
8,623,043 B1	1/2014	Keith et al.	D856,511 S *	8/2019	Kelly D24/112
8,657,846 B2	2/2014	Keith et al.	2006/0063973 A1	3/2006	Makower et al.
8,715,169 B2	5/2014	Chang et al.	2008/0091067 A1	4/2008	Dollar
8,721,591 B2	5/2014	Chang et al.	2008/0172038 A1	7/2008	Dollar et al.
8,740,844 B2	6/2014	Freyman et al.	2009/0076439 A1	3/2009	Dollar et al.
8,747,389 B2	6/2014	Goldfarb et al.	2009/0076446 A1	3/2009	Dubuclet, IV et al.
8,764,709 B2	7/2014	Chang et al.	2009/0088728 A1	4/2009	Dollar et al.
8,764,726 B2	7/2014	Chang et al.	2009/0198216 A1	8/2009	Muni et al.
8,764,729 B2	7/2014	Muni et al.	2010/0234724 A1	9/2010	Jacobsen et al.
8,764,786 B2	7/2014	Becker	2011/0112512 A1	5/2011	Muni et al.
8,777,926 B2	7/2014	Chang et al.	2011/0270081 A1	11/2011	Burg et al.
8,833,373 B2	9/2014	Barodka	2012/0053404 A1	3/2012	Schreck et al.
8,858,495 B2 *	10/2014	Tegg A61B 8/12 604/95.01	2013/0041463 A1	2/2013	Ressemann
8,858,586 B2	10/2014	Chang et al.	2013/0066358 A1	3/2013	Nalluri et al.
8,864,746 B2	10/2014	Becker	2013/0253632 A1	9/2013	Schreck
8,894,614 B2	11/2014	Muni et al.	2013/0261550 A1	10/2013	Edgren et al.
8,905,922 B2	12/2014	Makower et al.	2014/0031852 A1	1/2014	Edgren et al.
8,936,612 B2	1/2015	Suehara	2014/0107427 A1	4/2014	Chow et al.
			2014/0213968 A1	7/2014	Vaccaro et al.
			2014/0277058 A1	9/2014	Wu
			2016/0270863 A1	9/2016	Makower
			2016/0287059 A1	10/2016	Ha et al.
			2016/0310041 A1	10/2016	Jenkins et al.
			2018/0110407 A1	4/2018	Makower et al.

* cited by examiner

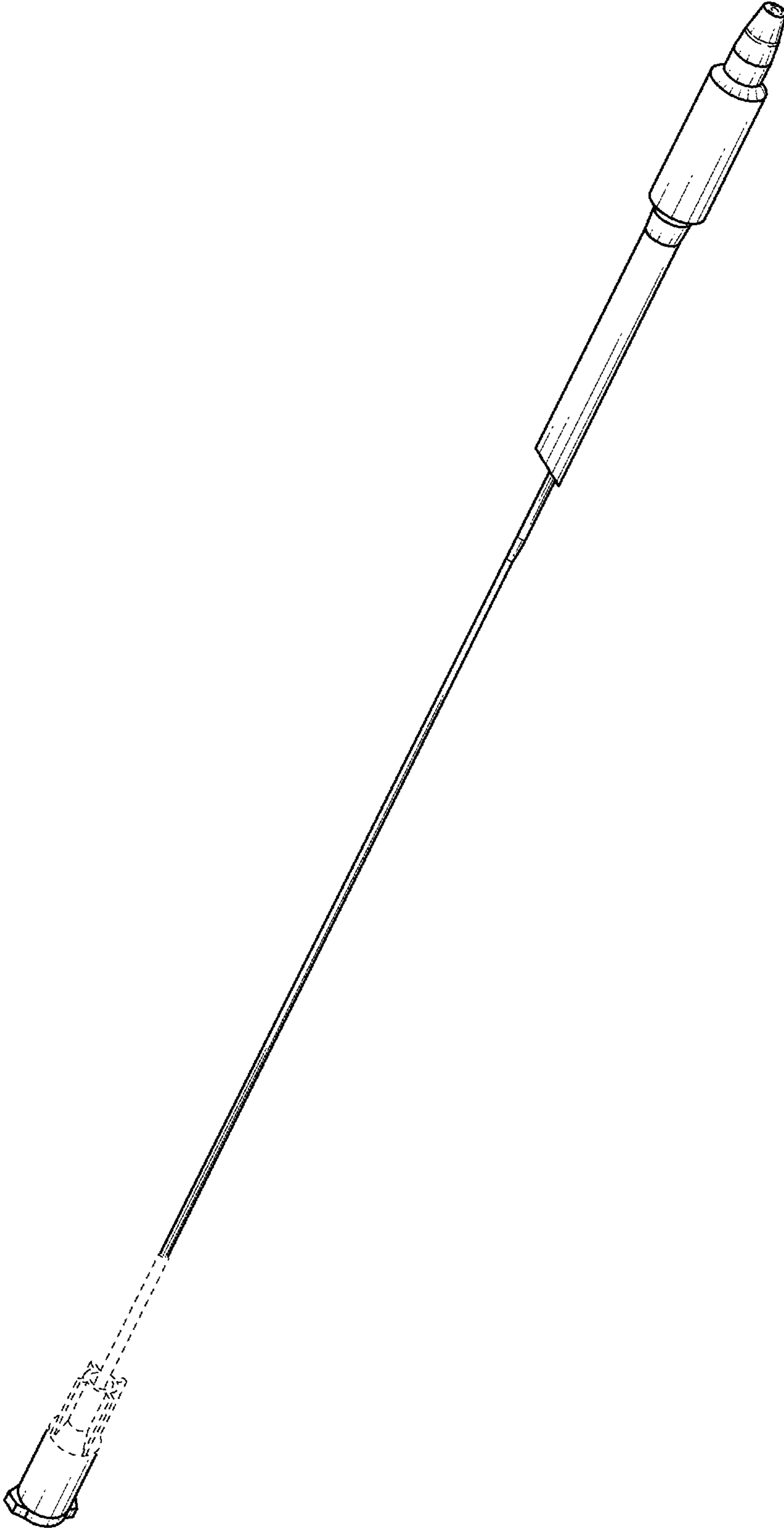


FIG. 1

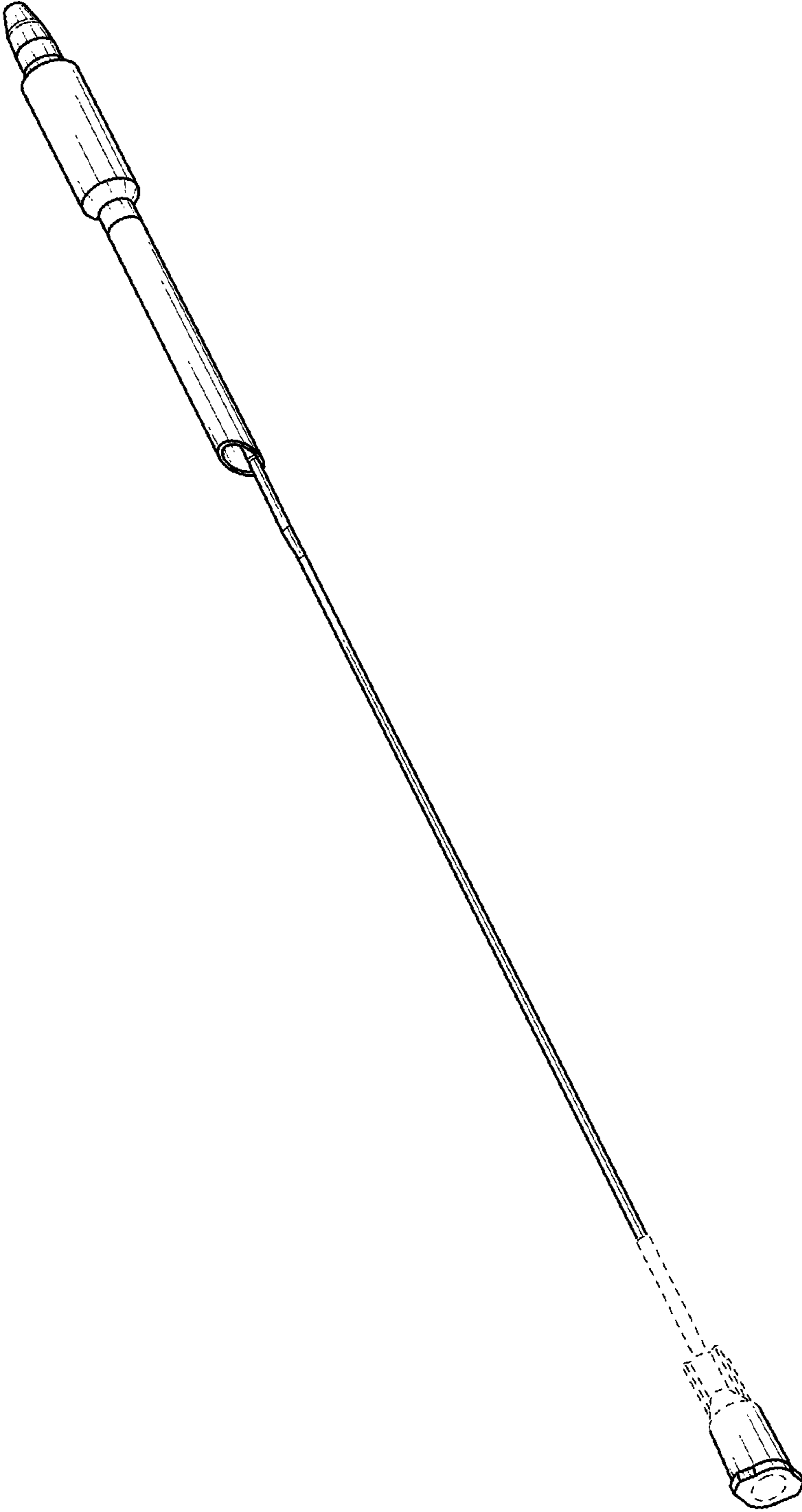


FIG. 2

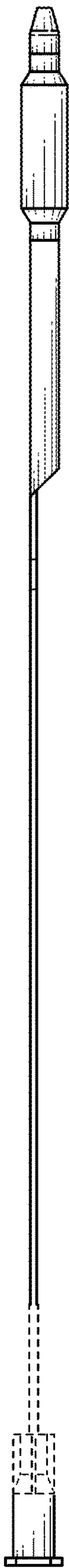


FIG. 3

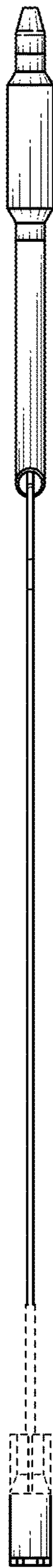


FIG. 4

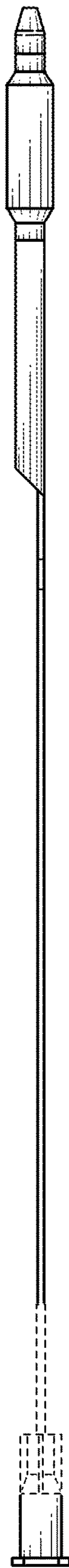


FIG. 5

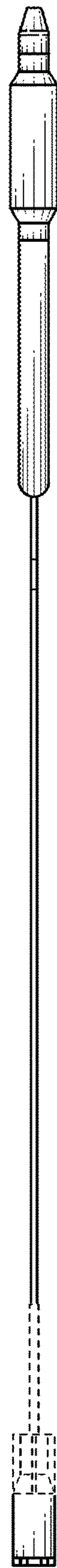


FIG. 6



FIG. 7

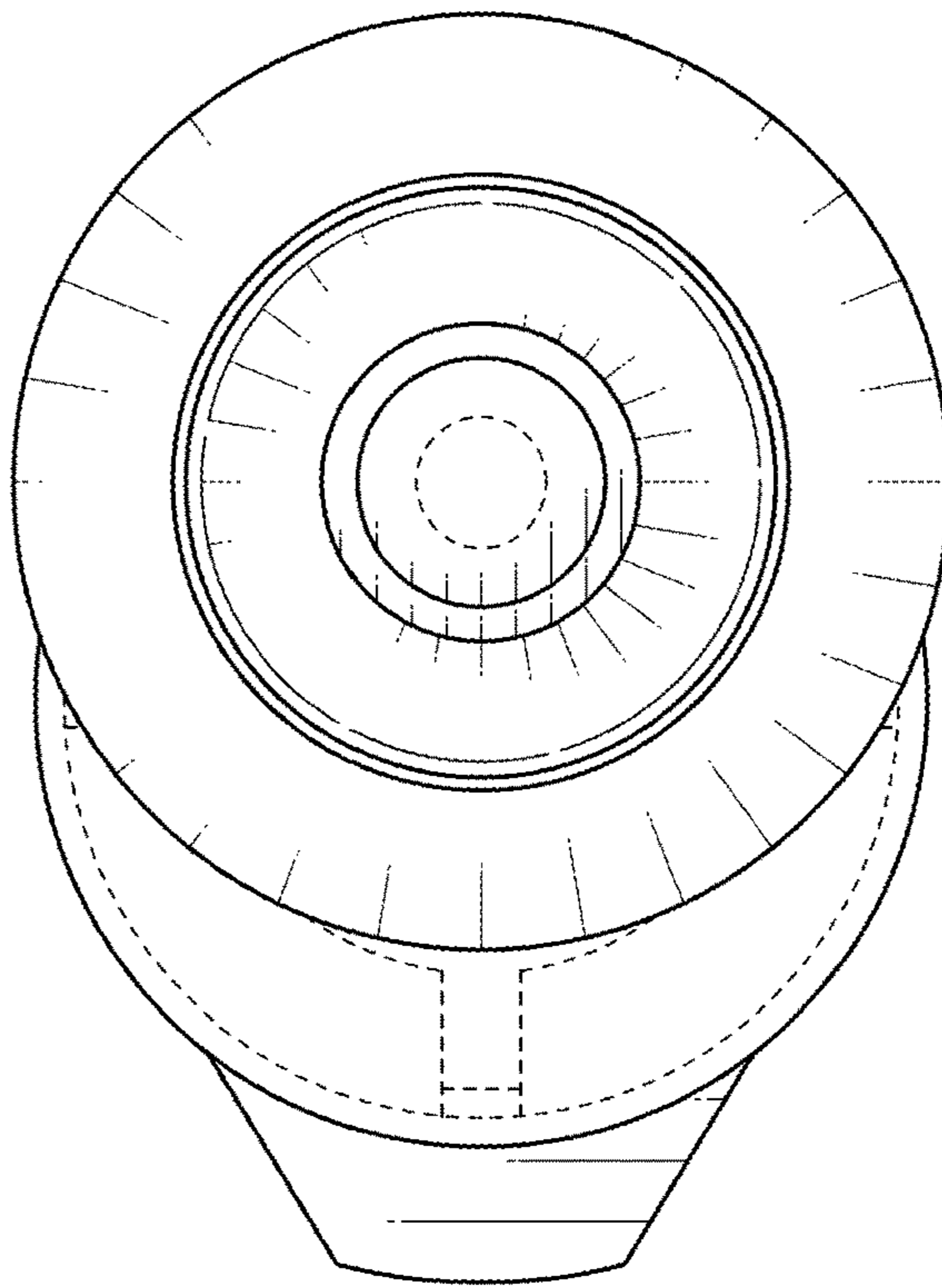


FIG. 8



FIG. 9

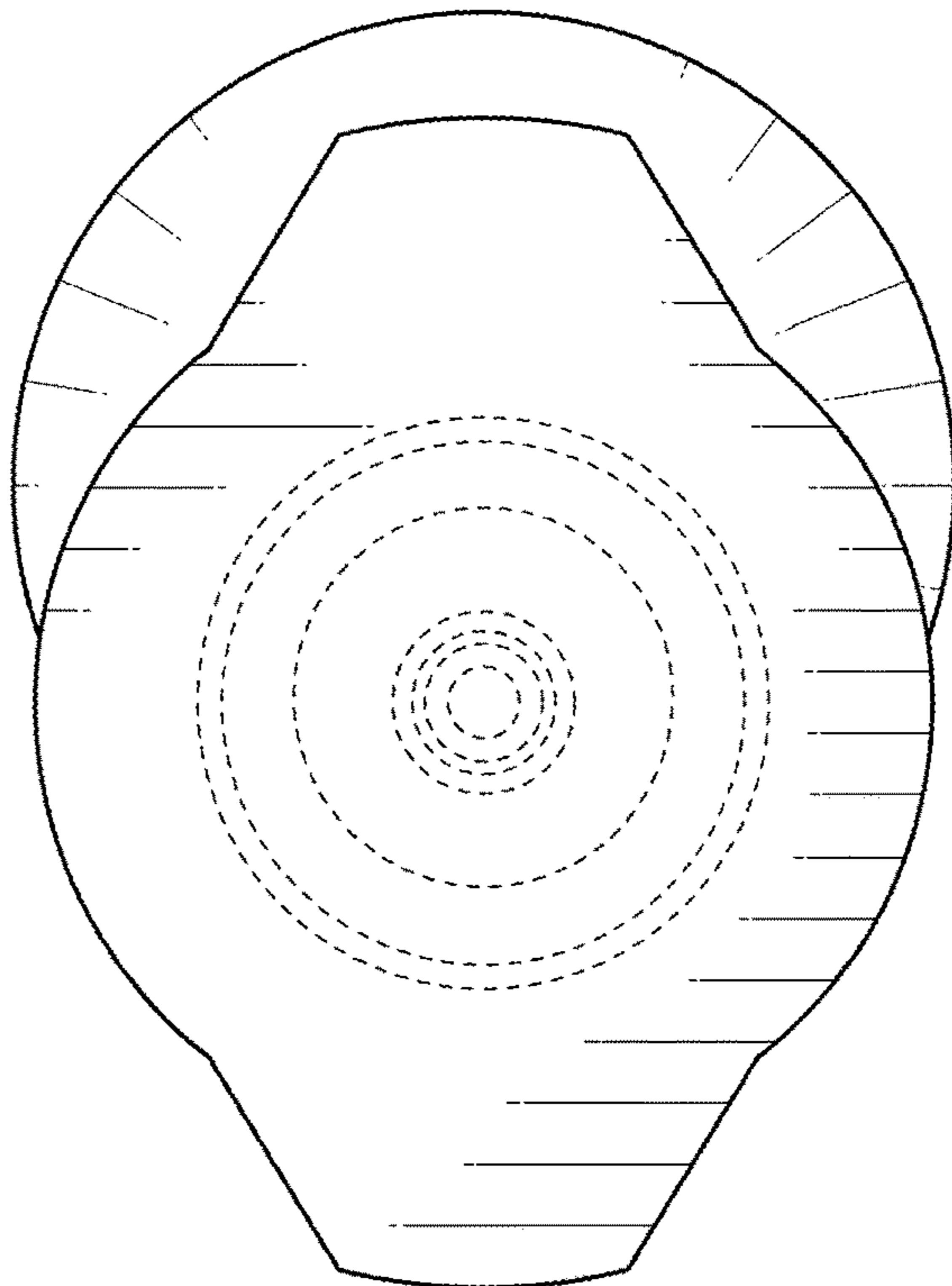


FIG. 10