



US00D823457S

(12) **United States Design Patent** (10) **Patent No.:** **US D823,457 S**
Shaw et al. (45) **Date of Patent:** **** Jul. 17, 2018**

(54) **BLOOD COLLECTION TUBE HOLDER WITH OFFSET NEEDLE RETRACTION CHAMBER AND FRONTAL ATTACHMENT**

FOREIGN PATENT DOCUMENTS

CN	1155846	7/1995
EP	0479303	8/1992
EP	1161962	12/2001

(71) Applicants: **Retractable Technologies, Inc.**, Little Elm, TX (US); **Thomas J. Shaw**, Frisco, TX (US)

Primary Examiner — David Muller
(74) *Attorney, Agent, or Firm* — Ross Barnes LLP; Monty L Ross

(72) Inventors: **Thomas J. Shaw**, Frisco, TX (US); **Mark Small**, Heavener, OK (US); **Ni Zhu**, Plano, TX (US)

(57) **CLAIM**

We claim the ornamental design for a blood collection tube holder with offset needle retraction chamber and frontal attachment, as shown and described.

(73) Assignee: **Retractable Technologies, Inc.**, Little Elm, TX (US)

DESCRIPTION

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

FIG. 1 is a front perspective view of a blood collection tube holder with offset needle retraction chamber and frontal attachment when the frontal attachment is disposed in a first position, with a forwardly projecting needle shown in phantom outline;

(21) Appl. No.: **29/570,119**

FIG. 2 is a front elevation view thereof;

(22) Filed: **Jul. 5, 2016**

FIG. 3 is a rear elevation view thereof;

Related U.S. Application Data

(63) Continuation-in-part of application No. 14/020,465, filed on Sep. 6, 2013, which is a continuation-in-part (Continued)

FIG. 4 is a top plan view thereof;

(51) **LOC (11) Cl.** **24-02**

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

FIG. 5 is a bottom plan view thereof;

(58) **Field of Classification Search**
USPC D24/112–114, 108, 133, 130, 127, 186; 606/181, 185; 604/264, 272, 187, 181, 604/184, 227

FIG. 6 is a right side elevation view thereof;

FIG. 7 is a left side elevation view thereof;

FIG. 8 is a front perspective view of the blood collection tube holder with offset needle retraction chamber and frontal attachment of FIG. 1 when the frontal attachment is disposed in a second position and the needle previously shown in phantom outline is not visible;

FIG. 9 is a front elevation view of the blood collection tube holder with offset needle retraction chamber and frontal attachment of FIG. 1 when positioned as in FIG. 8;

FIG. 10 is a rear elevation view of the blood collection tube holder with offset needle retraction chamber and frontal attachment of FIG. 1 when positioned as in FIG. 8;

FIG. 11 is a top plan view of the blood collection tube holder with offset needle retraction chamber and frontal attachment of FIG. 1 when positioned as in FIG. 8;

FIG. 12 is a bottom plan view of the blood collection tube holder with offset needle retraction chamber and frontal attachment of FIG. 1 when positioned as in FIG. 8;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,466,446 A 8/1984 Baidwan et al.
4,747,831 A 5/1988 Kulli

(Continued)

(Continued)

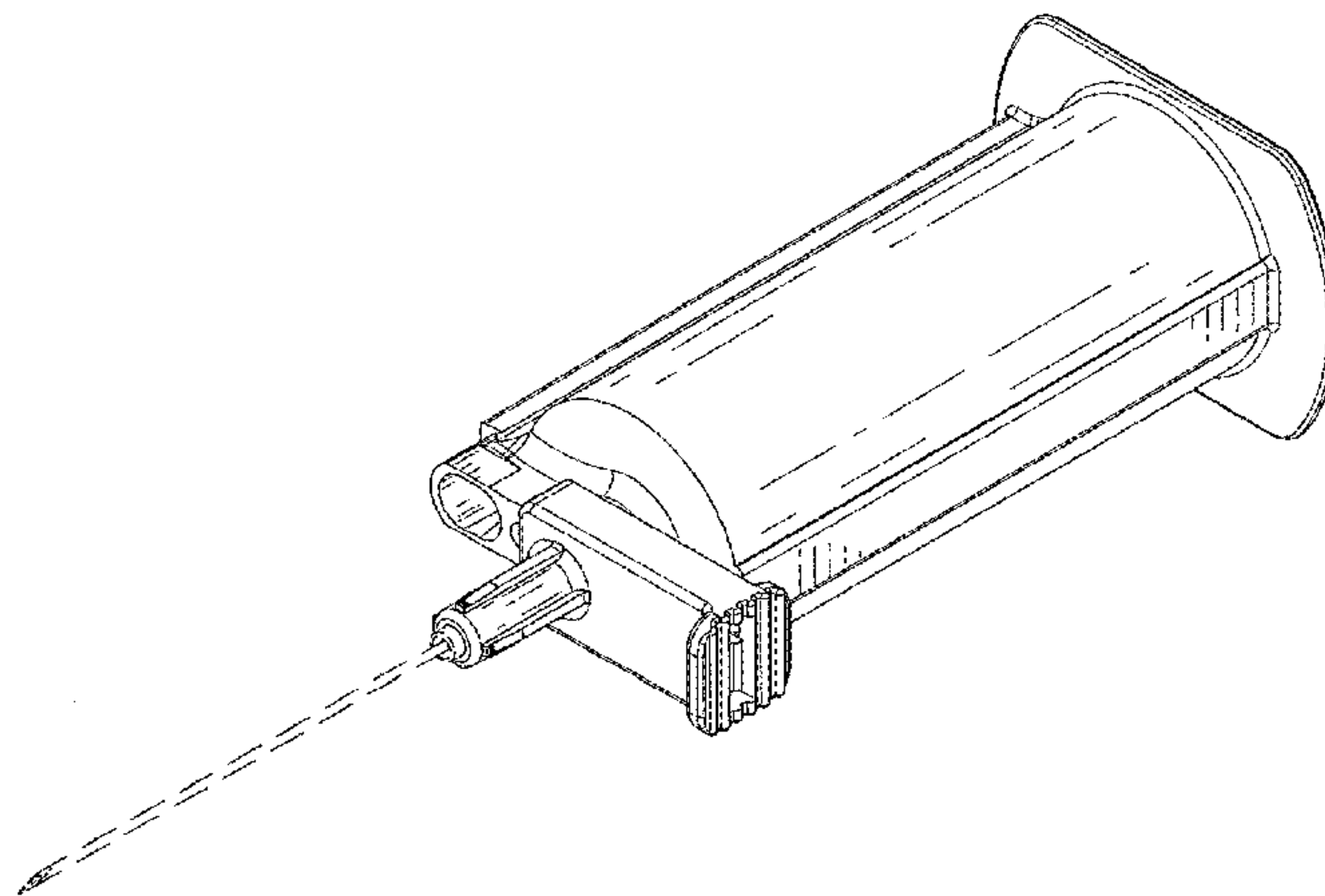


FIG. 13 is right side elevation view of the blood collection tube holder with offset needle retraction chamber and frontal attachment of FIG. 1 when positioned as in FIG. 8; and, FIG. 14 is left side elevation view of the blood collection tube holder with offset needle retraction chamber and frontal attachment of FIG. 1 when positioned as in FIG. 8. The broken line showing of parts of the drawings is included for the purpose of illustrating use and environment and forms no part of the claimed design.

1 Claim, 8 Drawing Sheets

Related U.S. Application Data

of application No. 13/714,819, filed on Dec. 14, 2012, now Pat. No. 9,138,545.

(58) **Field of Classification Search**

CPC A61M 5/178; A61M 3/00; A61M 5/20; A61M 5/31; A61M 5/3146; A61M 5/3129; A61M 5/3148; A61M 5/315

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,813,426	A	3/1989	Haber et al.	
4,813,935	A	3/1989	Haber et al.	
4,941,883	A	7/1990	Venturini	
4,973,316	A	11/1990	Dysarz	
5,163,916	A	11/1992	Sunderland	
5,263,942	A	11/1993	Smedley et al.	
5,298,023	A	3/1994	Haber et al.	
5,370,628	A	12/1994	Allison	
5,395,337	A	3/1995	Clemens et al.	
5,423,758	A	6/1995	Shaw	
5,445,618	A	8/1995	Adobbati	
5,503,010	A	4/1996	Yamanaka	
5,573,510	A	12/1996	Isaacson	
5,685,863	A	11/1997	Botich et al.	
5,704,920	A	1/1998	Gyure	
5,728,073	A	3/1998	Whisson	
5,779,679	A	7/1998	Shaw	
5,795,339	A	8/1998	Erskine	
5,830,152	A *	11/1998	Tao 600/562	
5,957,887	A	9/1999	Osterlind et al.	
5,964,731	A	10/1999	Kovelman	
6,039,713	A	3/2000	Botich et al.	
6,063,040	A	5/2000	Owen et al.	
D439,975	S *	4/2001	Wilkinson D24/130	

6,210,371	B1	4/2001	Shaw	
6,277,102	B1	8/2001	Carilli	
6,468,250	B2	10/2002	Yang	
D484,976	S *	1/2004	Wilkinson D24/130	
6,794,423	B1	9/2004	Li	
6,808,512	B1	10/2004	Lin et al.	
D506,549	S *	6/2005	Woods D24/130	
7,351,224	B1	4/2008	Shaw	
RE40,755	E *	6/2009	McWethy D24/130	
D604,839	S *	11/2009	Crawford D24/130	
D613,398	S *	4/2010	Crawford D24/130	
D627,065	S *	11/2010	Ade D24/130	
D651,308	S *	12/2011	Crawford D24/130	
D660,420	S *	5/2012	Shaw D24/130	
8,292,852	B2	10/2012	Mulholland	
8,343,094	B2	1/2013	Shaw	
D715,428	S *	10/2014	Baid D24/130	
9,125,600	B2 *	9/2015	Steube	
D766,426	S *	9/2016	Hamann D24/114	
2001/0021827	A1	9/2001	Ferguson et al.	
2002/0068907	A1	6/2002	Dysarz	
2002/0082560	A1	6/2002	Yang	
2003/0078540	A1	4/2003	Saulenas et al.	
2003/0171695	A1	9/2003	Zurcher	
2003/0181871	A1	9/2003	Wilkinson et al.	
2003/0236504	A1	12/2003	Chen	
2004/0015135	A1	1/2004	Wilkinson	
2004/0019329	A1	1/2004	Erskine	
2004/0133172	A1	7/2004	Wilkinson	
2004/0204688	A1	10/2004	Lin et al.	
2005/0004524	A1	1/2005	Newby et al.	
2005/0288607	A1	12/2005	Konrad	
2006/0155244	A1	7/2006	Popov	
2006/0189934	A1	8/2006	Kuracina et al.	
2006/0235354	A1	10/2006	Kaal et al.	
2007/0260189	A1	11/2007	Shaw et al.	
2008/0132851	A1	6/2008	Shaw et al.	
2008/0132854	A1	6/2008	Sharp	
2008/0287881	A1	11/2008	Kiehne	
2008/0319345	A1	12/2008	Swenson	
2009/0198198	A1	8/2009	West et al.	
2009/0306601	A1	12/2009	Shaw et al.	
2010/0000040	A1	1/2010	Shaw et al.	
2010/0003067	A1	1/2010	Shaw et al.	
2010/0241029	A1	9/2010	Mahurkar	
2010/0286604	A1	11/2010	Shaw	
2010/0317999	A1	12/2010	Shaw et al.	
2011/0264037	A1	10/2011	Foshee et al.	
2012/0022464	A1	1/2012	Zivkovic et al.	
2012/0071790	A1	3/2012	Mahurkar	
2012/0071827	A1	3/2012	Zivkovic et al.	
2012/0078225	A1	3/2012	Zivkovic et al.	
2012/0226232	A1	9/2012	Shaw et al.	
2012/0259243	A1	10/2012	Shaw et al.	
2012/0316466	A1	12/2012	Crawford et al.	

* cited by examiner

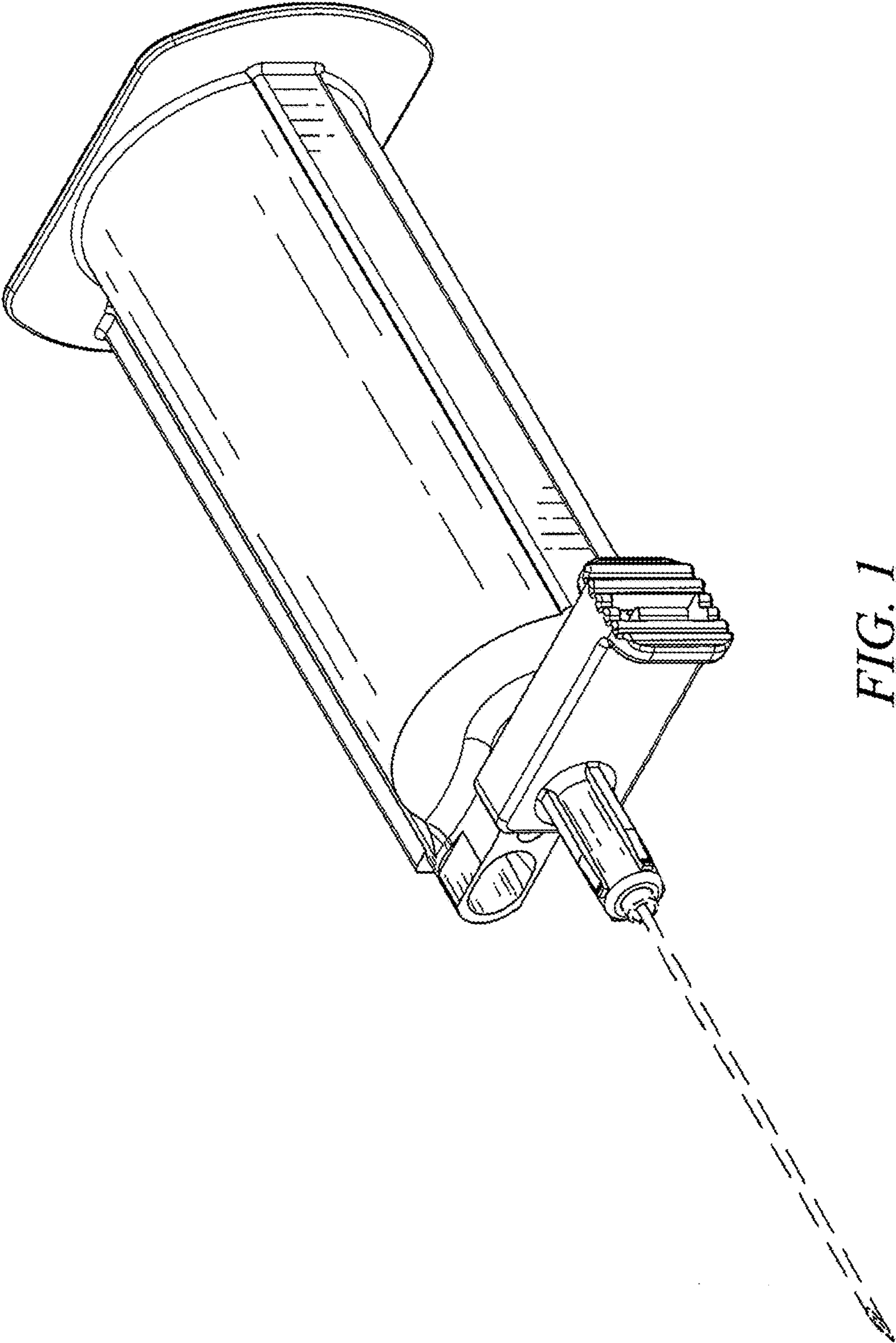


FIG. 1

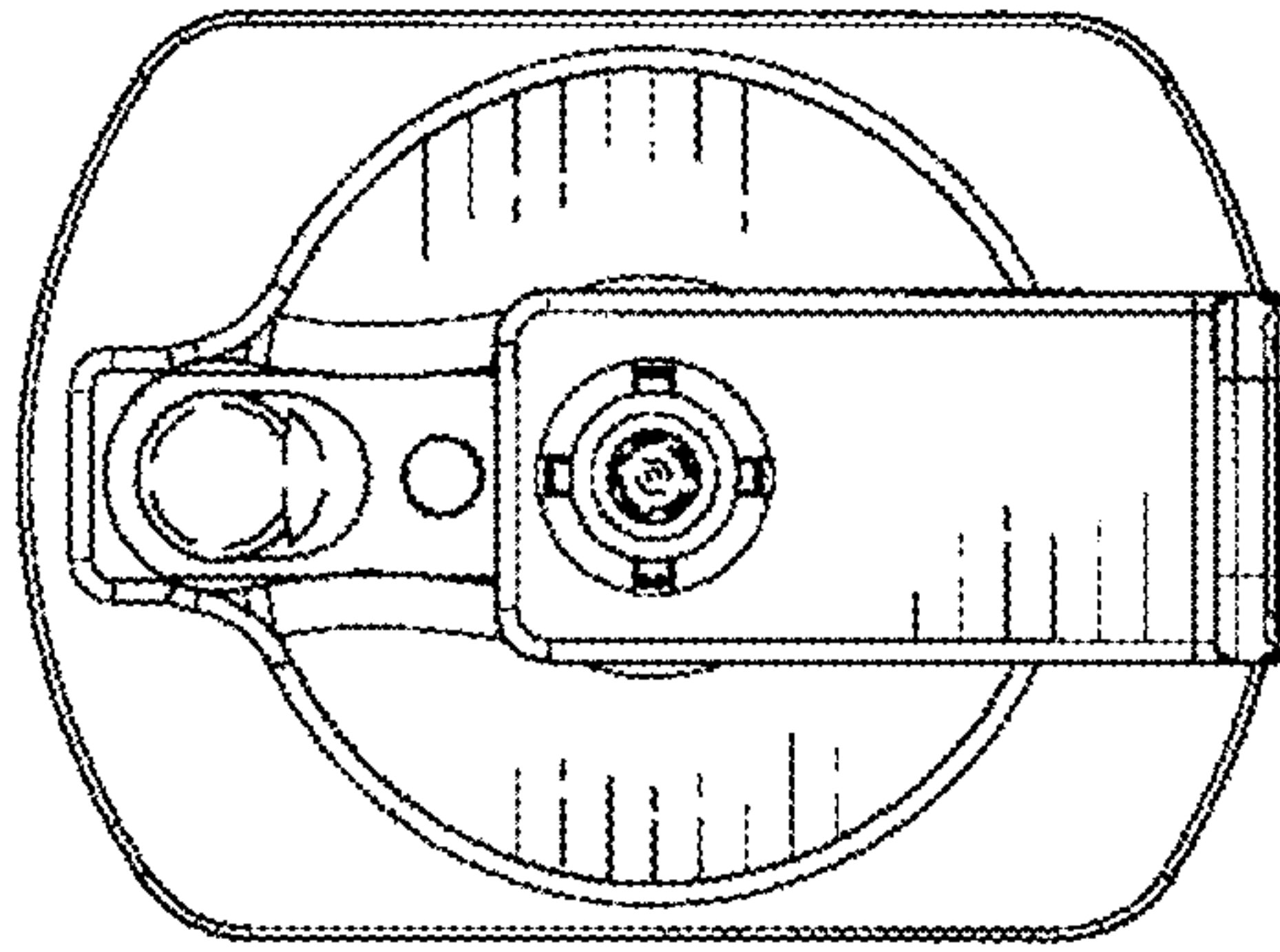


FIG. 2

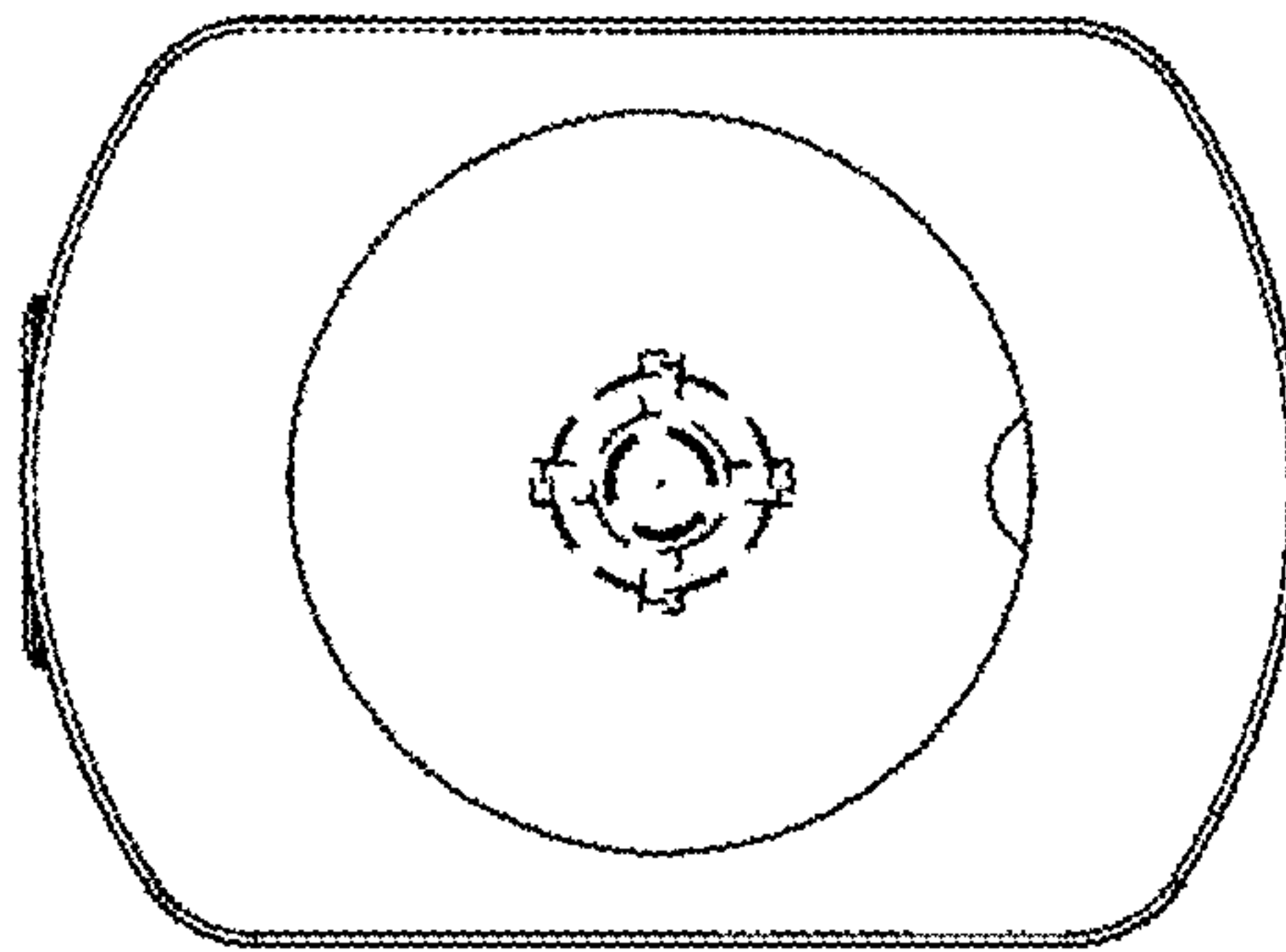


FIG. 3

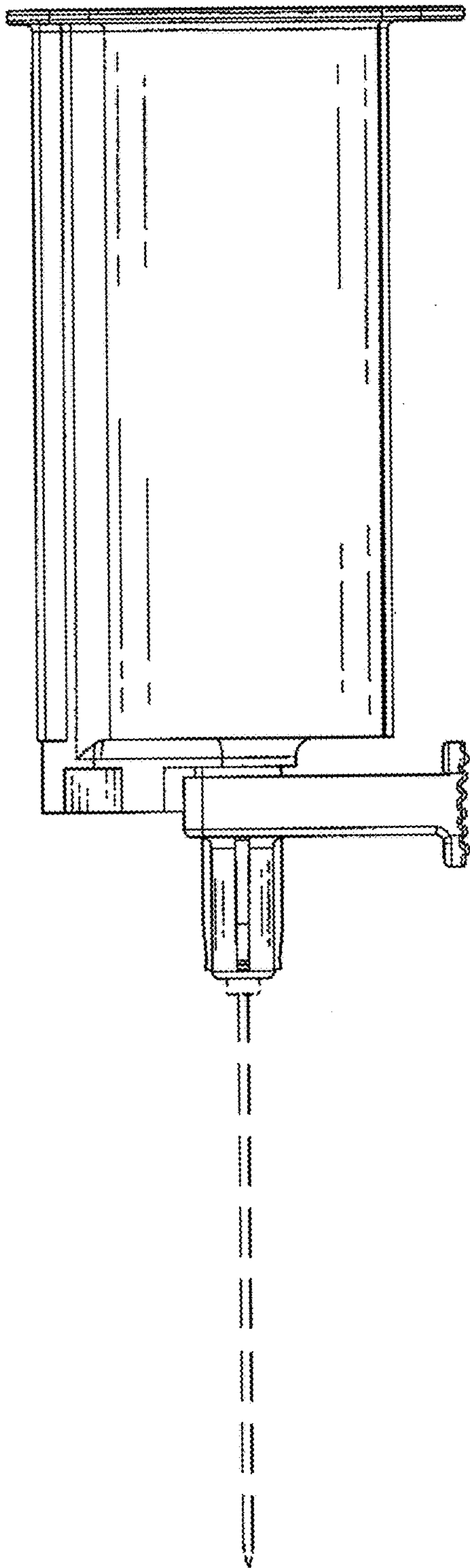


FIG. 4

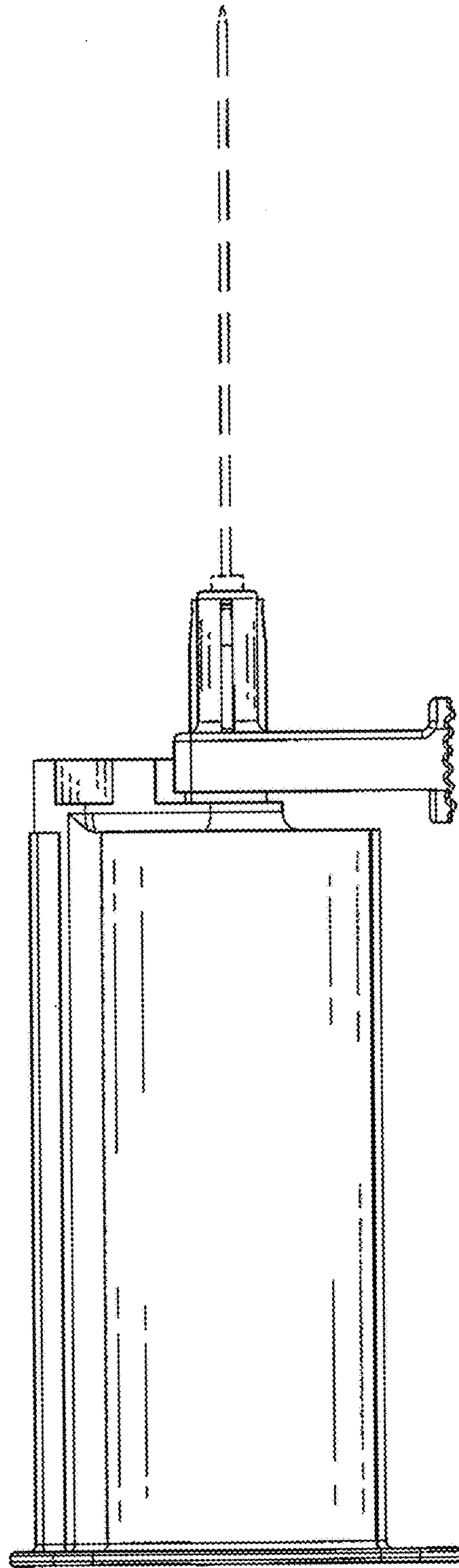


FIG. 5

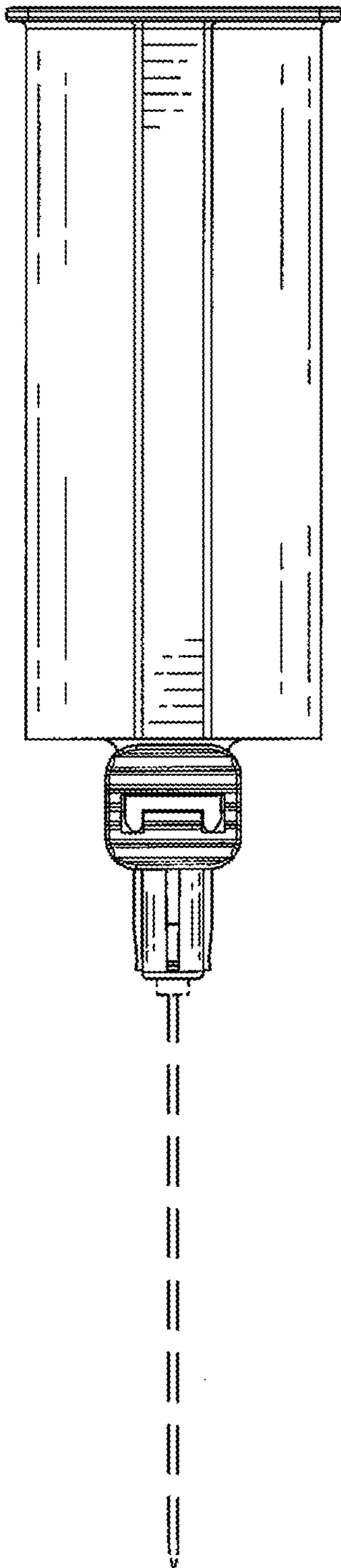


FIG. 6

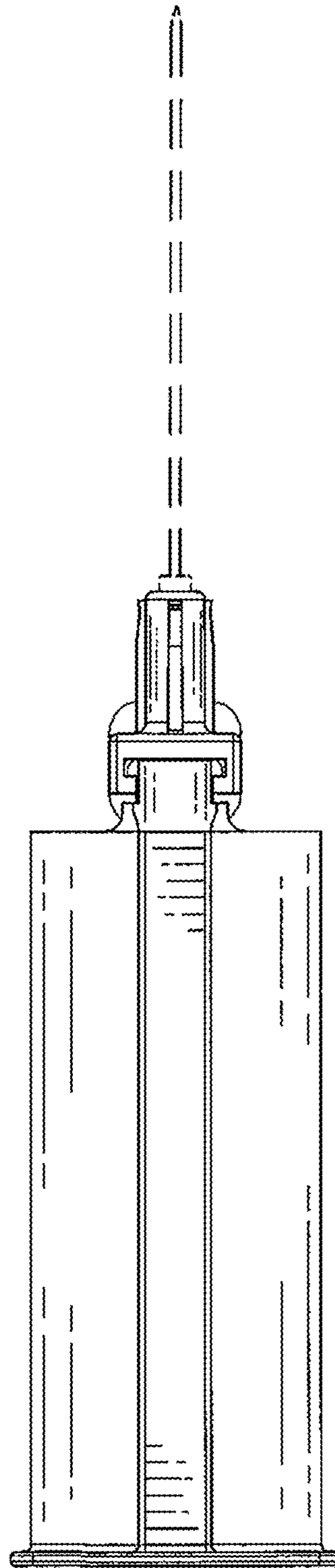


FIG. 7

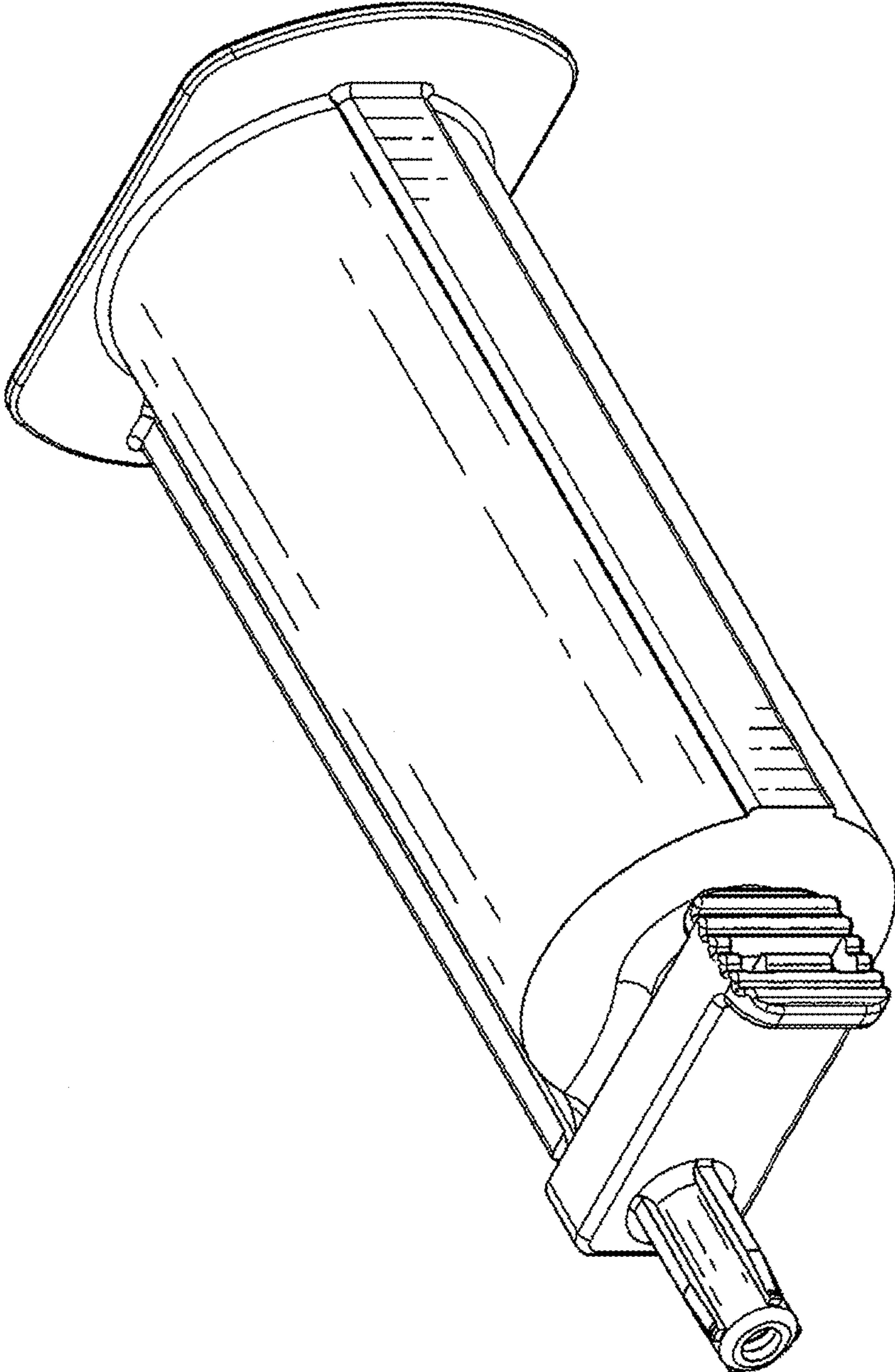


FIG. 8

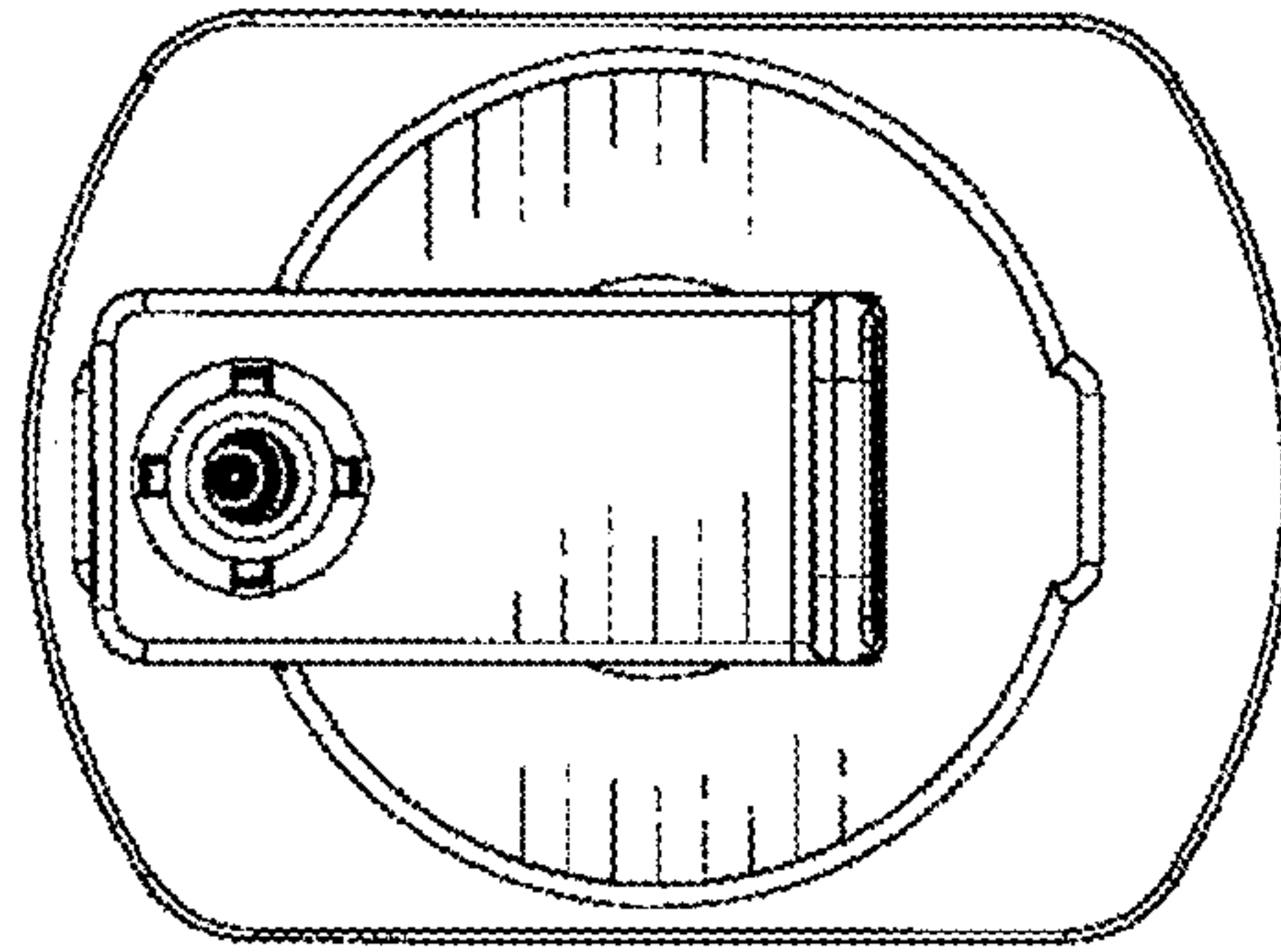


FIG. 9

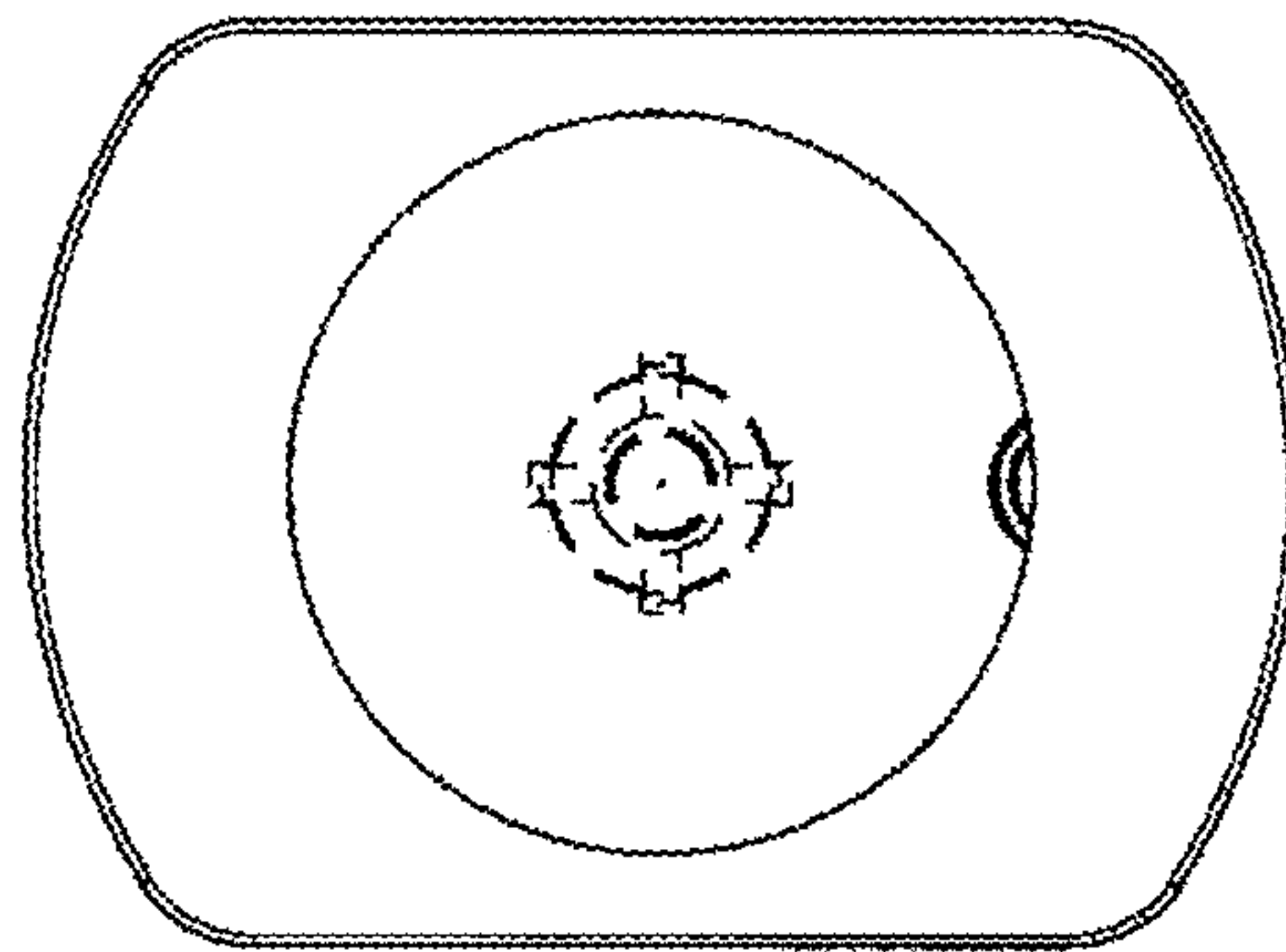


FIG. 10

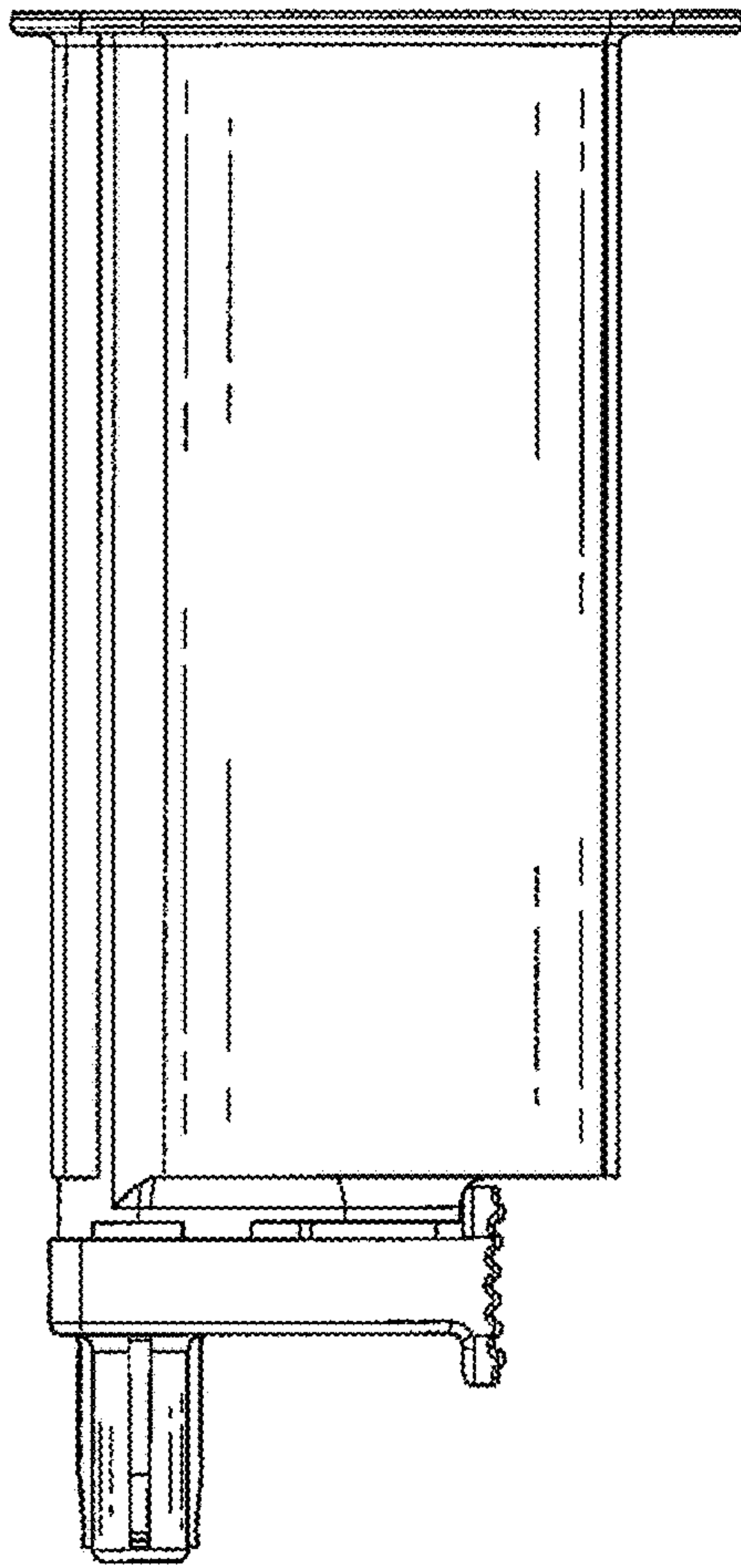


FIG. 11

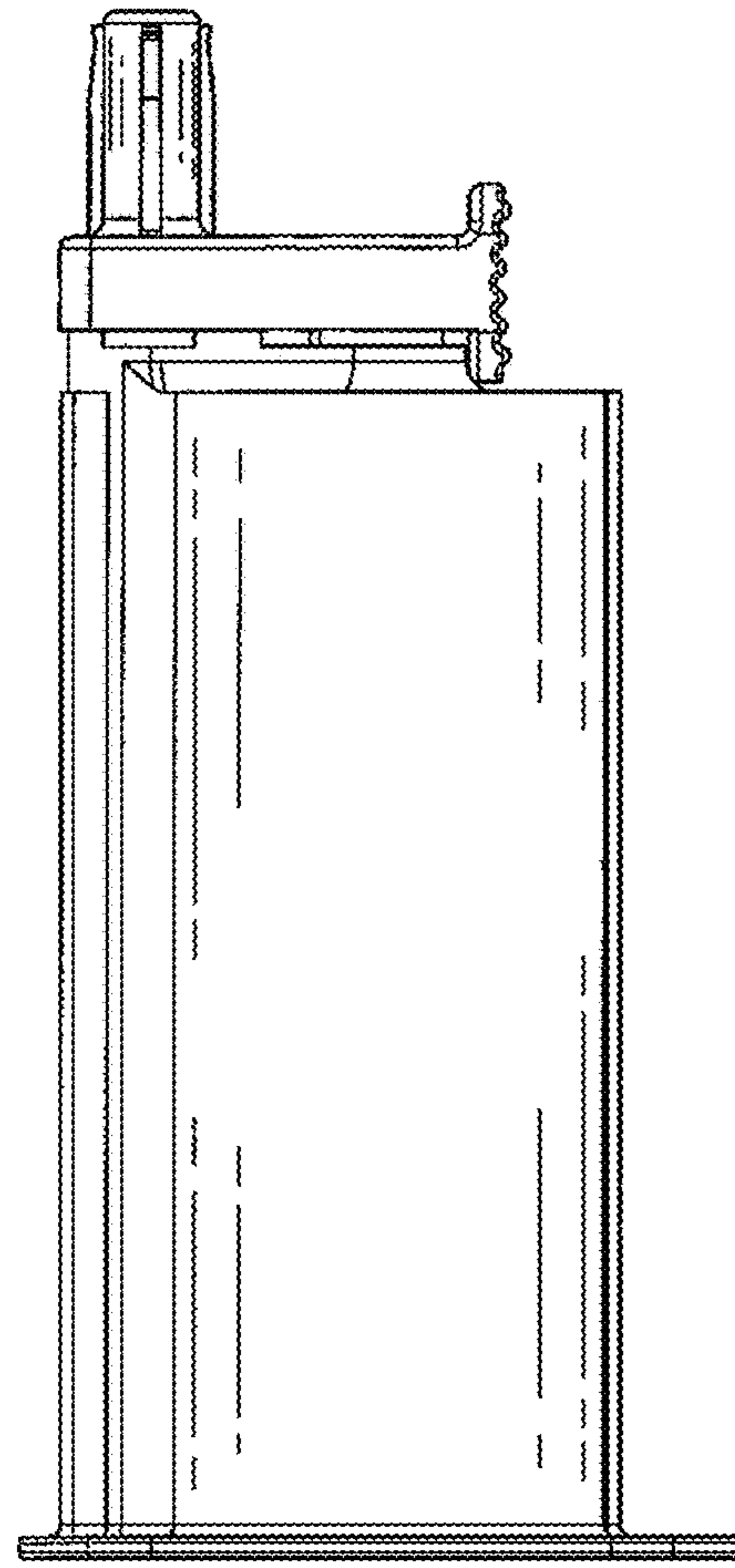


FIG. 12

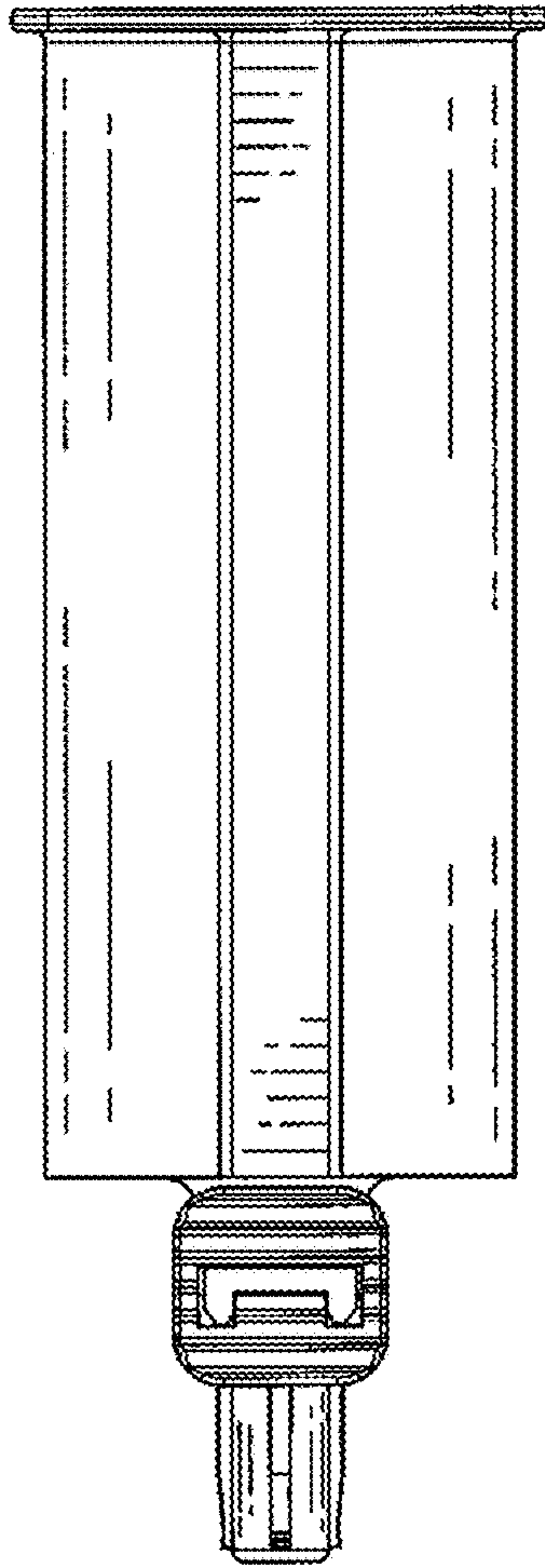


FIG. 13

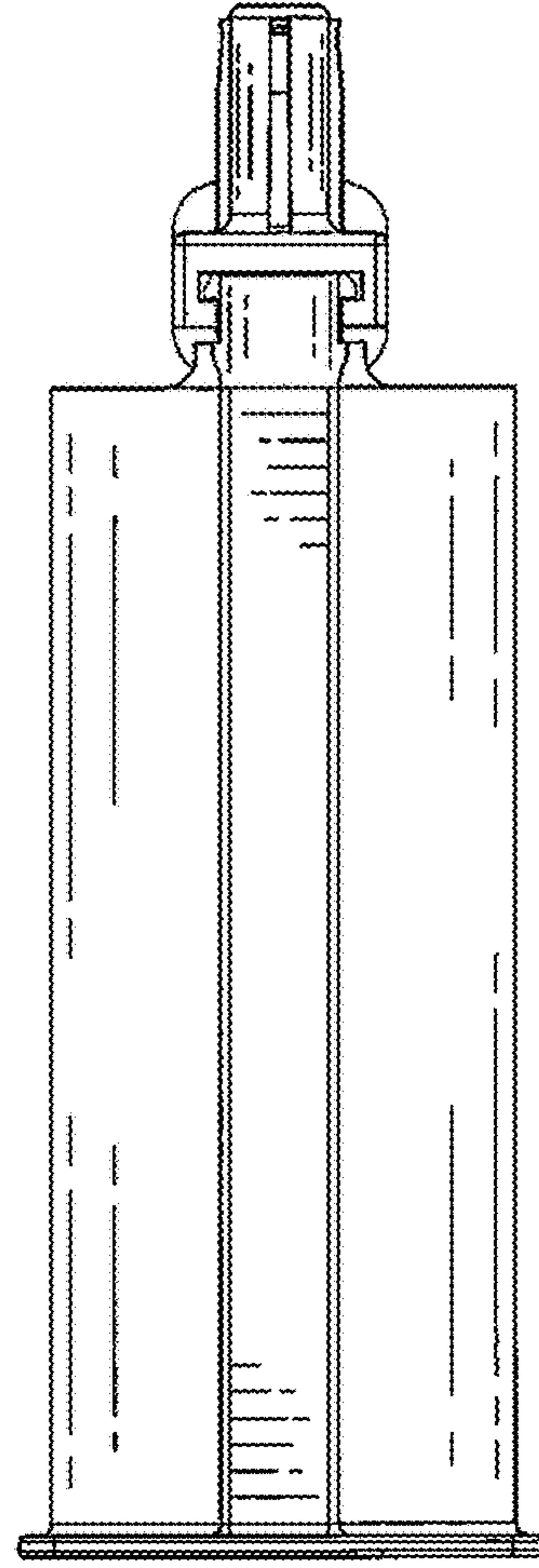


FIG. 14