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(12) **United States Design Patent** (10) **Patent No.:** **US D810,943 S**  
**Ballsieper** (45) **Date of Patent:** **\*\* Feb. 20, 2018**

(54) **X-RAY SHIELD** 6,703,632 B1 3/2004 MacKlis  
6,779,767 B2 \* 8/2004 Kuhn ..... F16M 11/08  
248/276.1  
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D556,324 S 11/2007 Oddsdottir et al.  
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(\*\*) Term: **15 Years**

(21) Appl. No.: **29/561,676**

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(51) **LOC (11) Cl.** ..... **24-01**

(52) **U.S. Cl.**  
USPC ..... **D24/158**

(58) **Field of Classification Search**  
USPC ..... D24/107, 158-161, 185, 186, 187, 231;  
D29/100, 104-107  
CPC .. A61B 6/107; G21F 3/00; G21F 3/02; G21Y  
2002/501; A61N 2005/1094  
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 1,636,419 A 7/1927 Hollander
- 2,105,028 A \* 1/1938 Dickhoff ..... A42B 3/22  
2/421
- 2,239,223 A 4/1941 Gilman
- 2,794,128 A 5/1957 Shasky
- D238,615 S 1/1976 Maier
- D241,378 S 9/1976 Burger
- D249,278 S 9/1978 Milligan
- 4,196,355 A 4/1980 Maine
- 4,254,341 A 3/1981 Herr et al.
- D259,139 S 5/1981 Johnson
- 4,386,277 A \* 5/1983 Forshee ..... G21F 3/02  
2/9
- D300,945 S 5/1989 Fleming et al.
- 4,923,162 A 5/1990 Fleming
- D310,905 S 10/1990 Marchione
- D349,577 S 8/1994 Sayles
- D424,198 S 5/2000 Shepherd et al.

FOREIGN PATENT DOCUMENTS

- CN 201375521 Y 1/2010
- JP 2000-166916 A 6/2000
- KR 10-2012-0084574 7/2012

OTHER PUBLICATIONS

Radiation Protection Shields & Drapes of the company Radpad, USA (www.radpad.com), 3 pages.  
(Continued)

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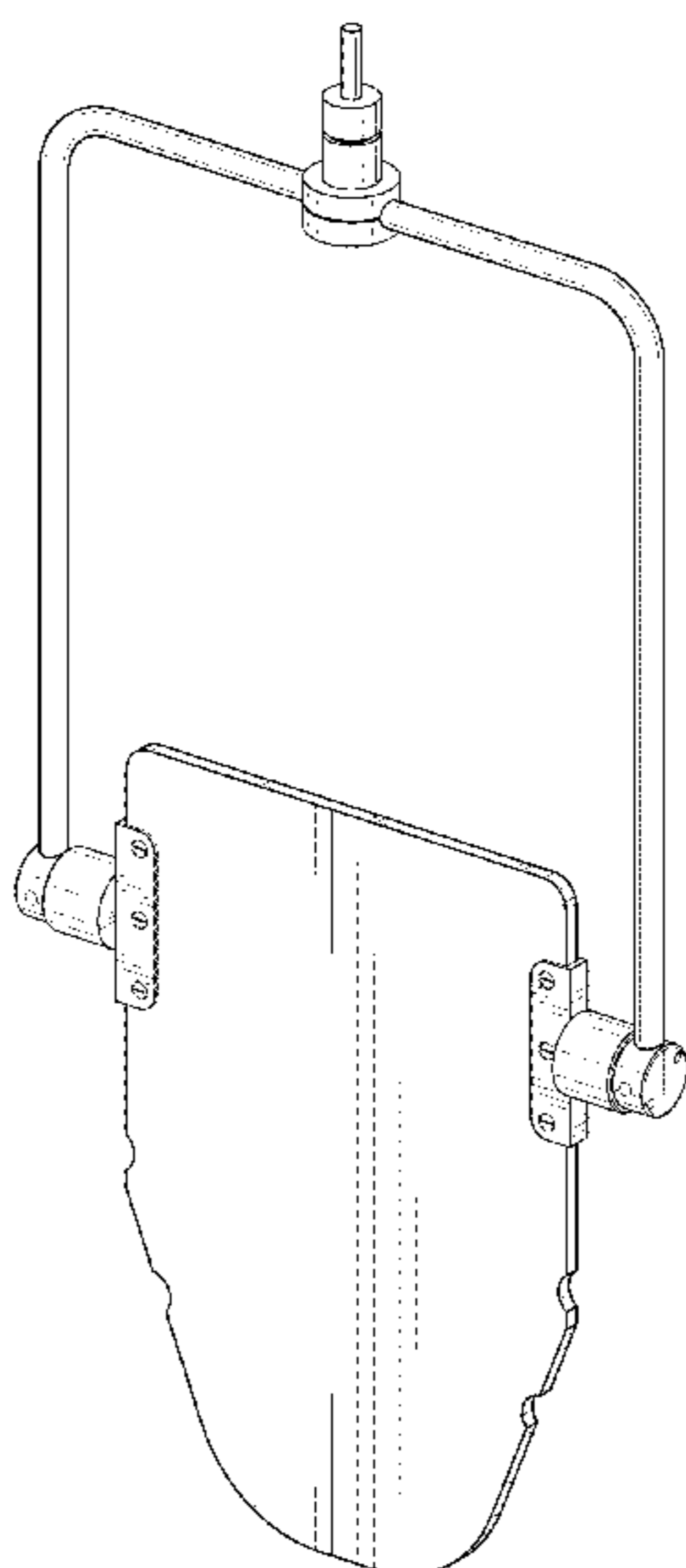
(57) **CLAIM**

The ornamental design for an x-ray shield, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of an x-ray shield showing a first embodiment of my new design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a top view thereof;  
FIG. 4 is a bottom view thereof;  
FIG. 5 is a side view thereof;  
FIG. 6 is a front perspective view of an x-ray shield showing a second embodiment of my new design;  
FIG. 7 is a front view thereof;  
FIG. 8 is a top view thereof;  
FIG. 9 is a bottom view thereof; and,  
FIG. 10 is a side view thereof.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

7,294,845	B2	11/2007	Ballsieper	
D569,044	S	5/2008	Crye	
D569,046	S *	5/2008	Crye .....	D29/100
7,608,847	B2	10/2009	Rees	
7,744,278	B2	6/2010	Barkow et al.	
D629,109	S	12/2010	Phillips	
D629,110	S	12/2010	Brettle et al.	
D639,076	S *	6/2011	Fukui .....	D16/235
D716,449	S	10/2014	Ballsieper	
D751,710	S	3/2016	Ballsieper	
D772,415	S *	11/2016	Ballsieper .....	D24/158
D775,340	S *	12/2016	Ballsieper .....	D24/158
2009/0323892	A1	12/2009	Hitzke	
2012/0186590	A1	7/2012	Byers	
2013/0270462	A1	10/2013	Beck	
2013/0299723	A1	11/2013	Murase	
2015/0041686	A1	2/2015	Pizarro	
2017/0004895	A1 *	1/2017	Holman .....	A61B 6/107

OTHER PUBLICATIONS

Radiation Protection Covers, Kenex, Great Britain, [www.kenex.co.uk](http://www.kenex.co.uk).

Radiation Protection Covers, Aadco, U.S.A., [www.aadcomed.com](http://www.aadcomed.com).

Radiation Protection Covers, Beijing Huaren, China, [bjuaren.com](http://bjuaren.com).

Radiation Protection Covers, Mavig, USA.

U.S. Appl. No. 29/466,485, filed Sep. 9, 2013, Ballsieper.

U.S. Appl. No. 29/502,311, filed Sep. 15, 2014, Ballsieper.

U.S. Appl. No. 29/503,390, filed Sep. 25, 2014, Ballsieper.

U.S. Appl. No. 29/553,475, filed Feb. 2, 2016, Ballsieper.

U.S. Appl. No. 29/556,915, filed Mar. 4, 2016, Ballsieper et al.

\* cited by examiner

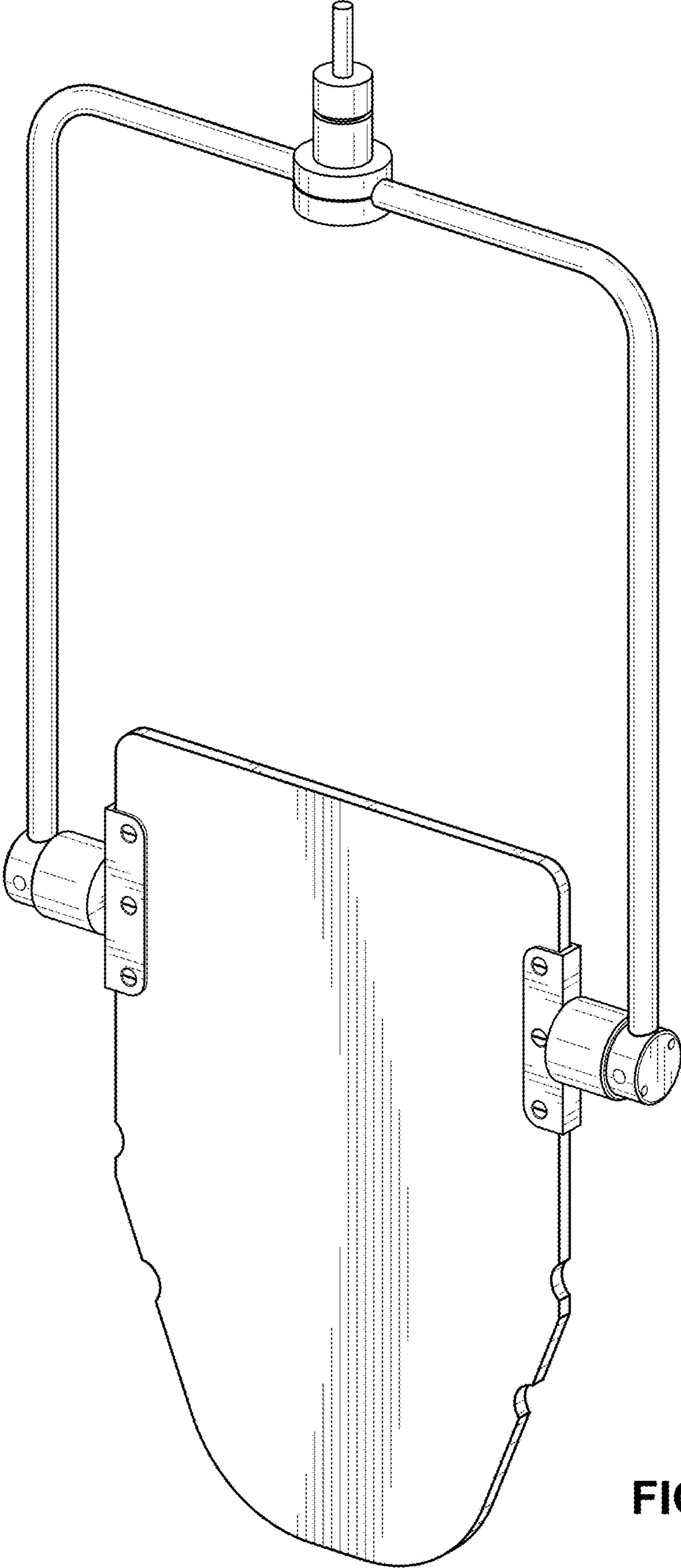


FIG. 1

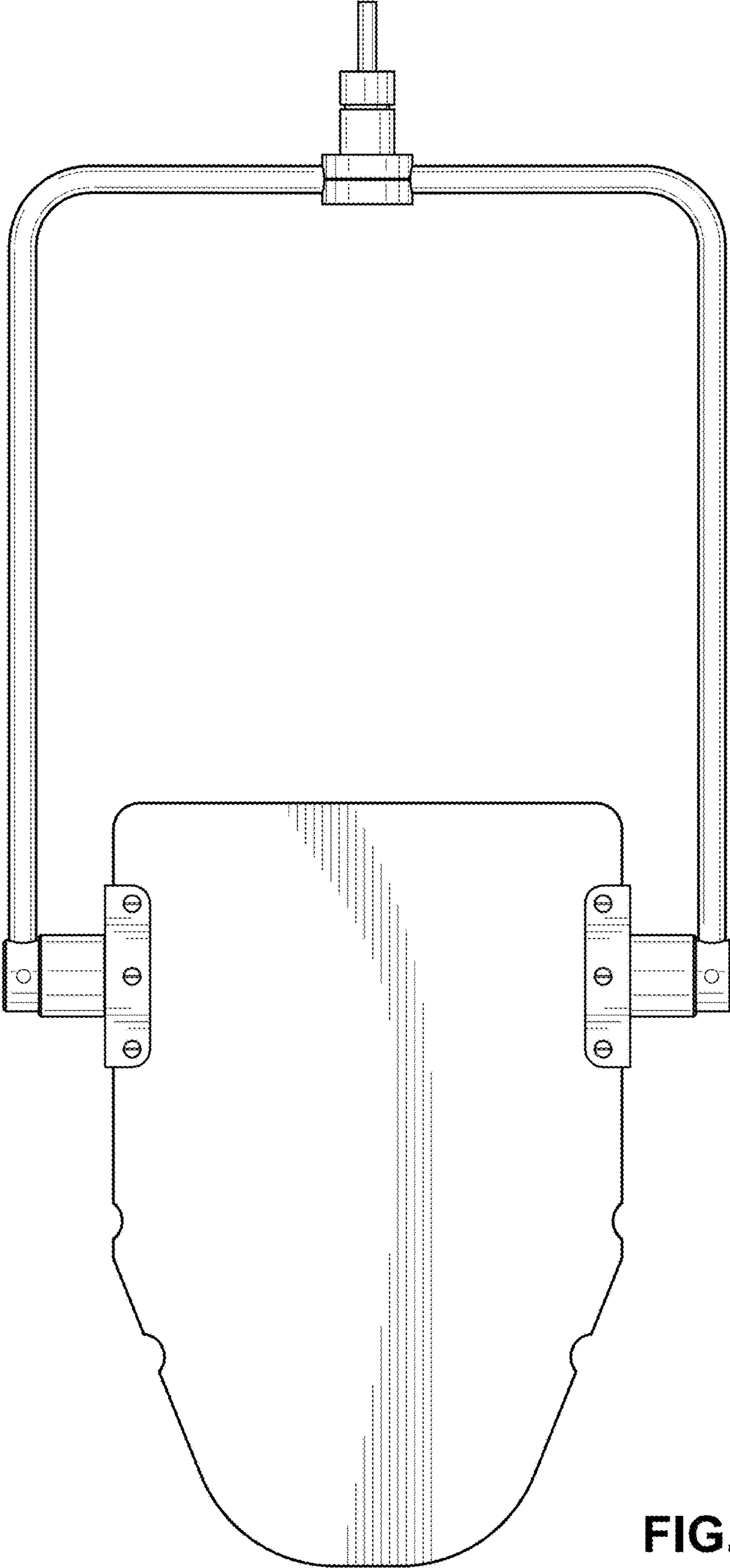
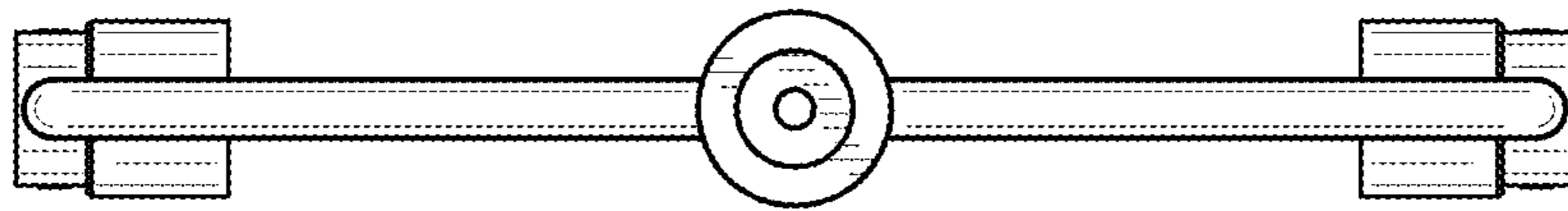
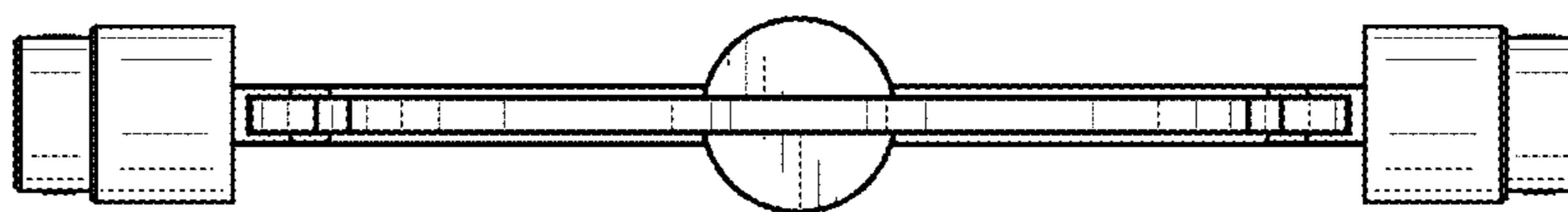


FIG. 2



**FIG. 3**



**FIG. 4**

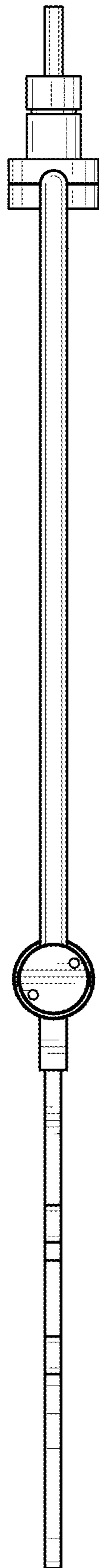


FIG. 5

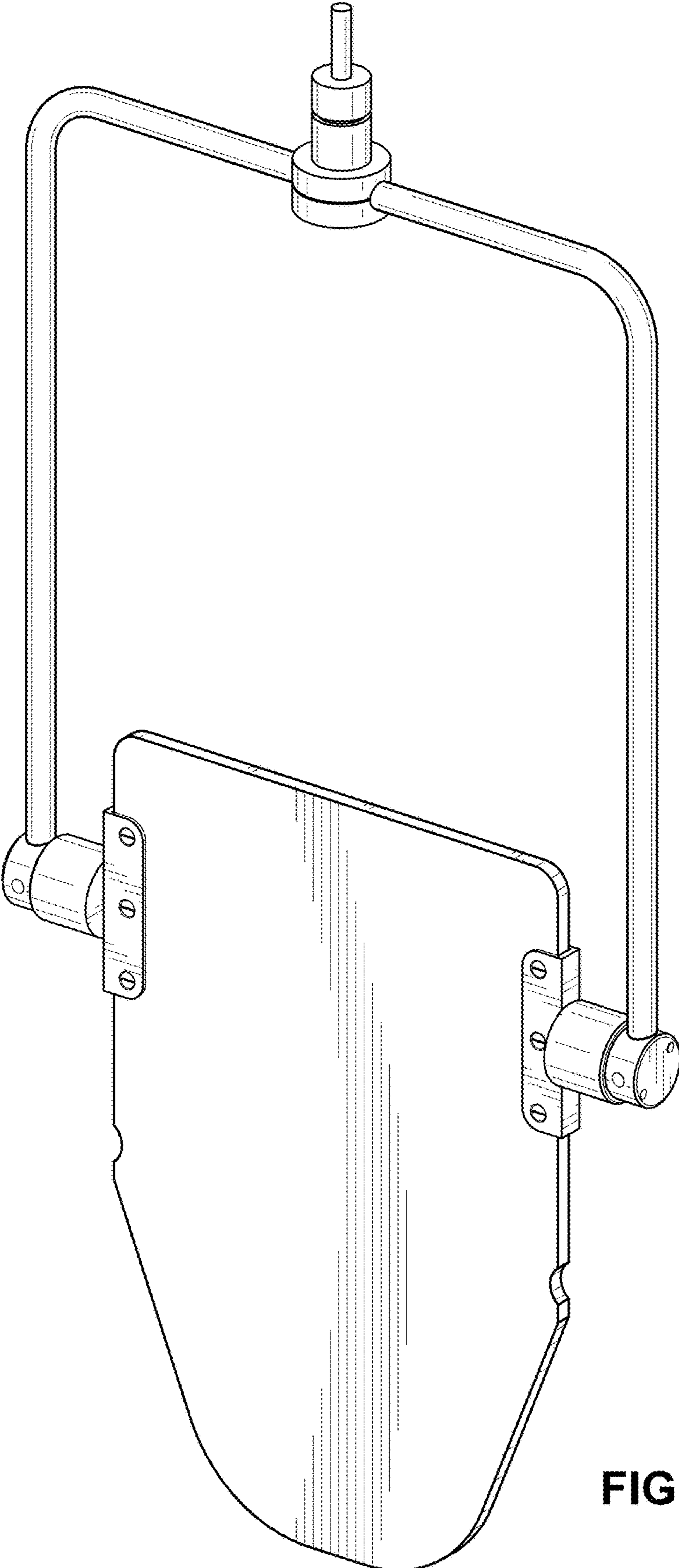


FIG. 6

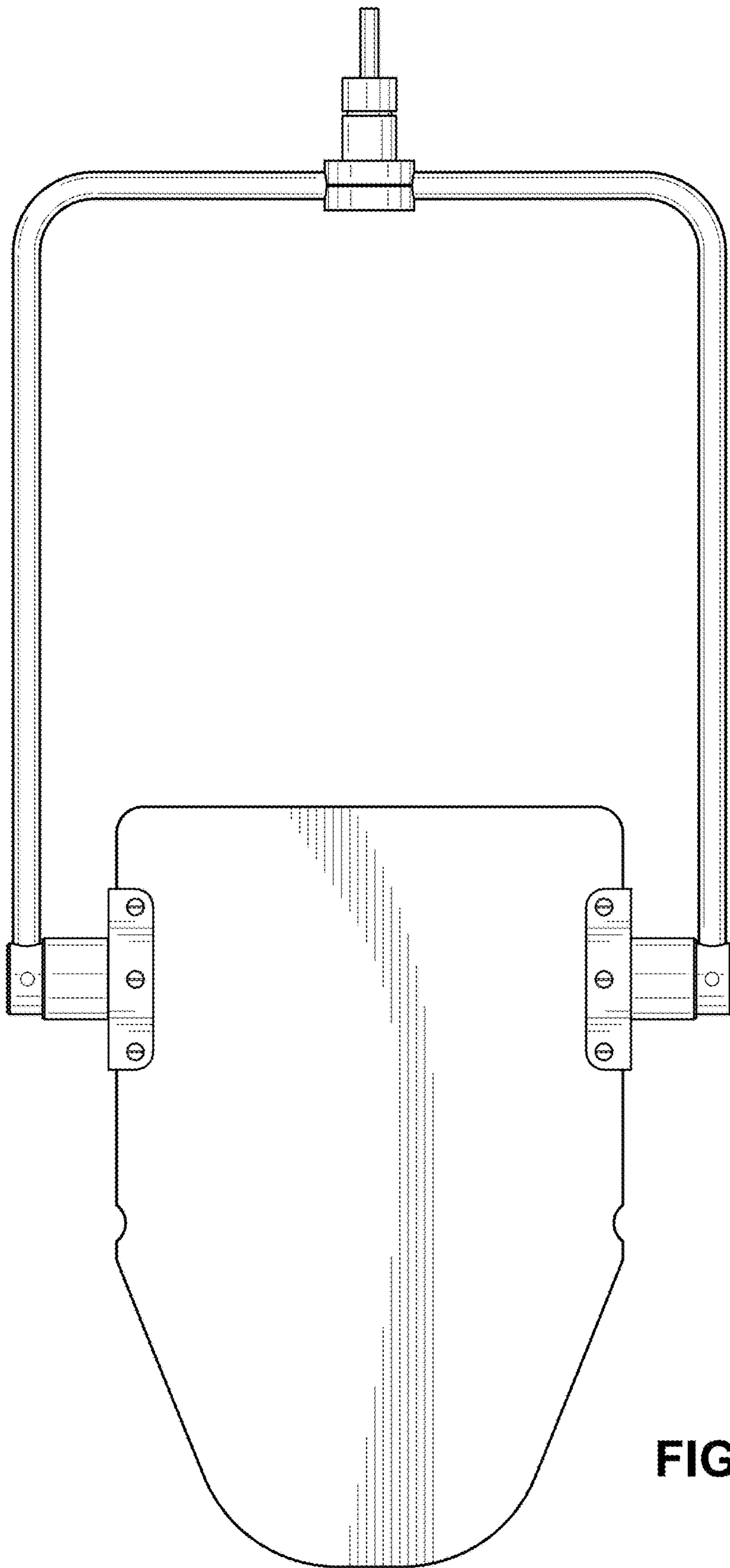
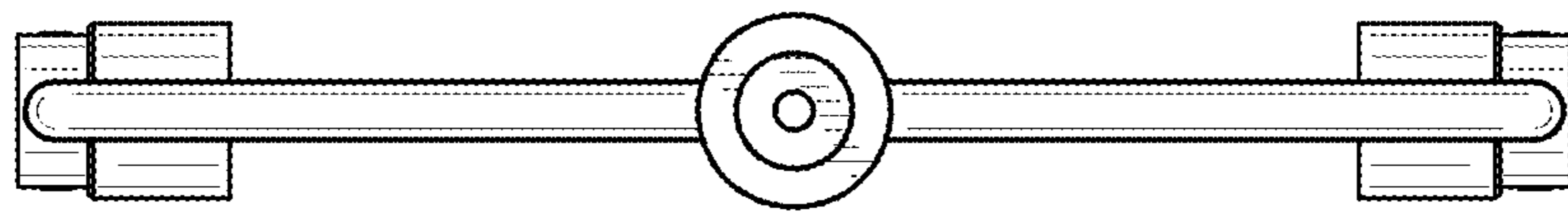
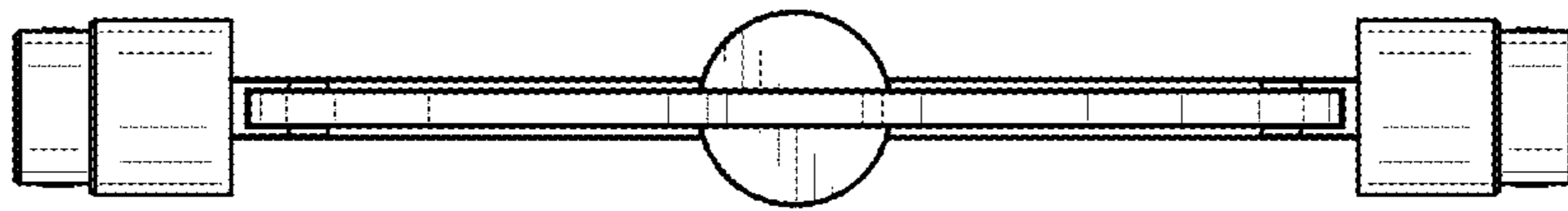


FIG. 7





**FIG. 8**



**FIG. 9**

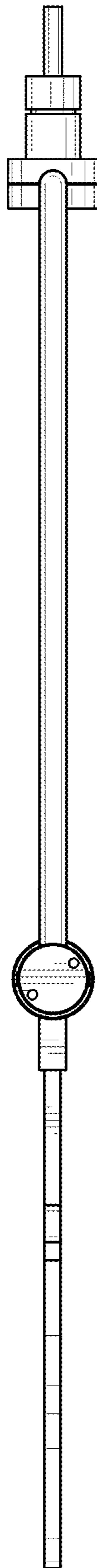


FIG. 10