



US00D640715S

(12) **United States Design Patent**
Tiner

(10) **Patent No.:** **US D640,715 S**
(45) **Date of Patent:** **** Jun. 28, 2011**

(54) **LIFT PIN ASSEMBLY**

(75) Inventor: **Robin L. Tiner**, Santa Cruz, CA (US)

(73) Assignee: **Applied Materials, Inc.**, Santa Clara, CA (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/328,012**

(22) Filed: **Nov. 17, 2008**

(51) **LOC (9) Cl.** **15-09**

(52) **U.S. Cl.** **D15/138**

(58) **Field of Classification Search** D8/387;
D15/122, 138, 140, 199; 118/500, 715, 728,
118/729; 156/345.51-345.55; 414/757
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,015,709	A *	1/1962	Bodenschatz	337/6
3,074,186	A *	1/1963	Gudermuth	36/34 A
3,832,764	A *	9/1974	Fletcher et al.	29/764
5,594,985	A *	1/1997	Varley	29/823
5,796,066	A	8/1998	Guyot	
5,848,670	A	12/1998	Salzman	
5,879,128	A	3/1999	Tietz et al.	
6,120,609	A	9/2000	Selyutin et al.	
6,202,368	B1 *	3/2001	Wallace, III	52/157
6,364,955	B2 *	4/2002	Schertler	118/719
6,481,723	B1 *	11/2002	Hao et al.	279/128
6,719,516	B2 *	4/2004	Kroeker	414/217
6,767,176	B2 *	7/2004	Yudovsky et al.	414/672
6,884,319	B2 *	4/2005	Kim	156/345.52
6,896,282	B1 *	5/2005	McKinley	280/495
6,958,098	B2	10/2005	Gujer et al.	
6,962,084	B2 *	11/2005	Gall	73/715
7,204,888	B2	4/2007	Tran et al.	
D568,914	S	5/2008	Or et al.	
D612,772	S *	3/2010	Goodman et al.	D12/162
2002/0011204	A1 *	1/2002	Gujer et al.	118/500
2002/0121312	A1	9/2002	Lubomirsky et al.	
2002/0174950	A1 *	11/2002	Park	156/345.1
2003/0075387	A1	4/2003	Wang et al.	

2003/0136341	A1 *	7/2003	Na	118/500
2005/0180737	A1 *	8/2005	Kurita et al.	392/418
2006/0156987	A1 *	7/2006	Lai et al.	118/728
2007/0007782	A1 *	1/2007	Kalous	296/1.07
2008/0110397	A1 *	5/2008	Son	118/500
2008/0149032	A1 *	6/2008	Jung	118/728
2008/0196665	A1 *	8/2008	Chandran	118/713
2009/0095621	A1 *	4/2009	Kao et al.	204/298.32

(Continued)

Primary Examiner — Patricia Palasik

(74) *Attorney, Agent, or Firm* — Patterson & Sheridan, L.L.P.

(57) **CLAIM**

The ornamental design for a lift pin assembly, as shown and described.

DESCRIPTION

FIG. 1 is an isometric view of a lift pin assembly comprising a head and a shaft.

FIG. 2 is a top plan view of the lift pin assembly of FIG. 1.

FIG. 3 is an enlarged partial top plan view of the left end of the lift pin assembly of FIG. 2 illustrating the head and shaft interface.

FIG. 4 is an enlarged partial top plan view of the right end of the lift pin assembly of FIG. 2. The enlarged partial bottom plan view of the right end is identical and is omitted.

FIG. 5 is a side elevation view of the lift pin assembly of FIG. 1. The other side elevation view is identical and is omitted.

FIG. 6 is a bottom plan view of the lift pin assembly of FIG. 1.

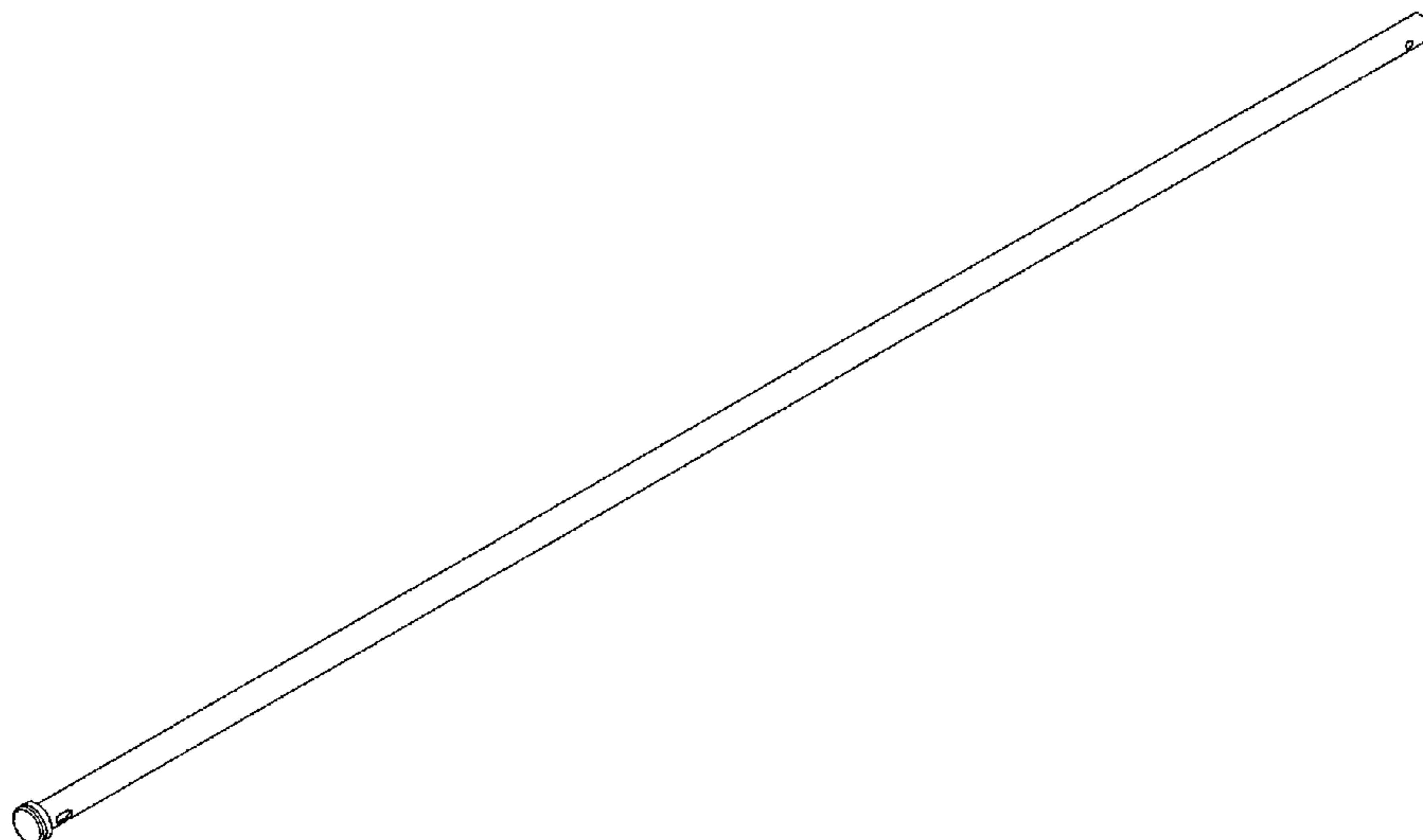
FIG. 7 is an enlarged partial bottom plan view of the left end of the lift pin assembly of FIG. 6 illustrating the head and shaft interface.

FIG. 8 is an elevation view of the left end of the lift pin assembly of FIG. 6; and,

FIG. 9 is an elevation view of the right end of the lift pin assembly of FIG. 6.

The broken lines shown in the Figures are disclaimed and do not form part of the claimed design.

1 Claim, 4 Drawing Sheets



US D640,715 S

Page 2

U.S. PATENT DOCUMENTS

2009/0127808	A1*	5/2009	Otterson	280/33.994	2009/0314211	A1*	12/2009	Du Bois et al.	118/729
2009/0155025	A1*	6/2009	Lerner et al.	414/222.01	2010/0013626	A1*	1/2010	Park et al.	340/521
2009/0190908	A1*	7/2009	Shibagaki	392/416					

* cited by examiner

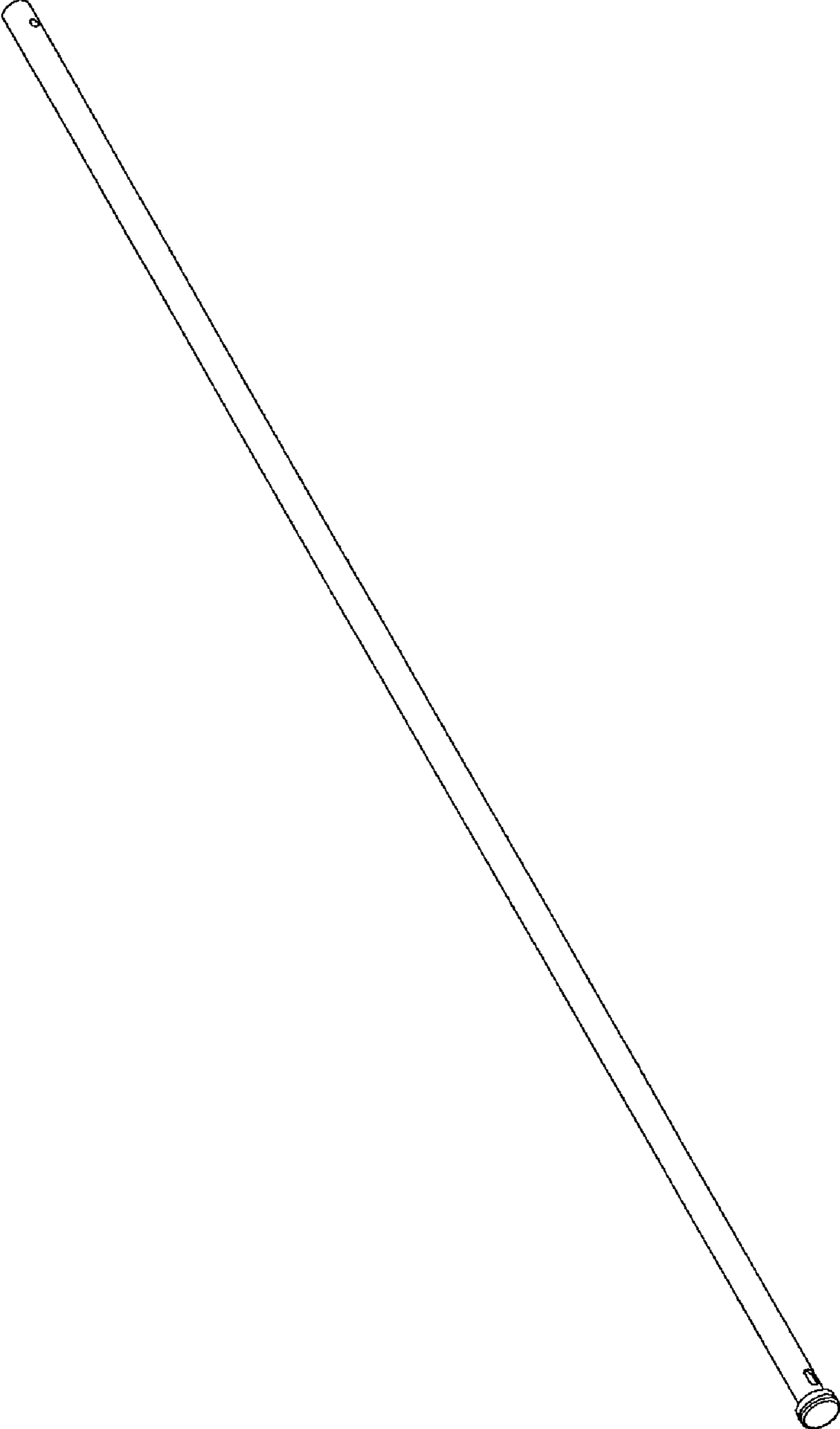


FIG. 1

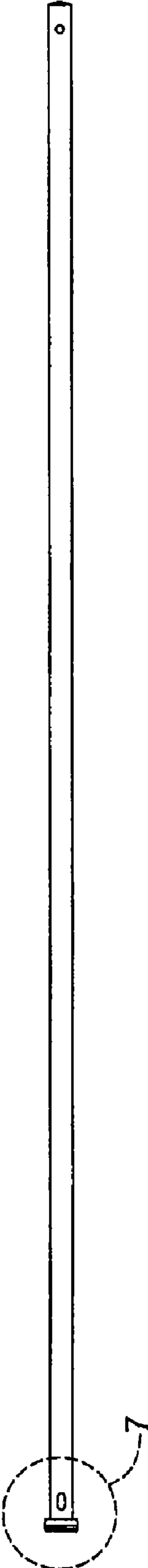


FIG. 6



FIG. 5

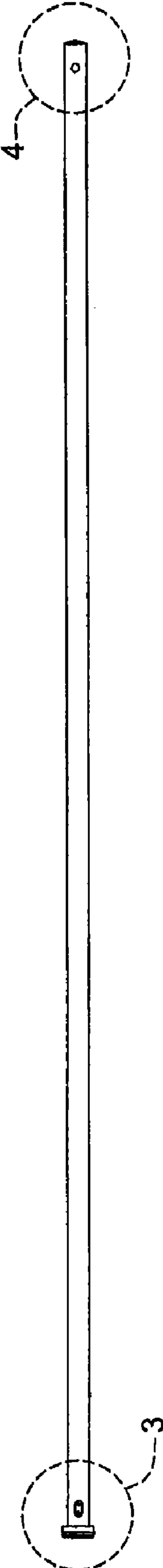


FIG. 2

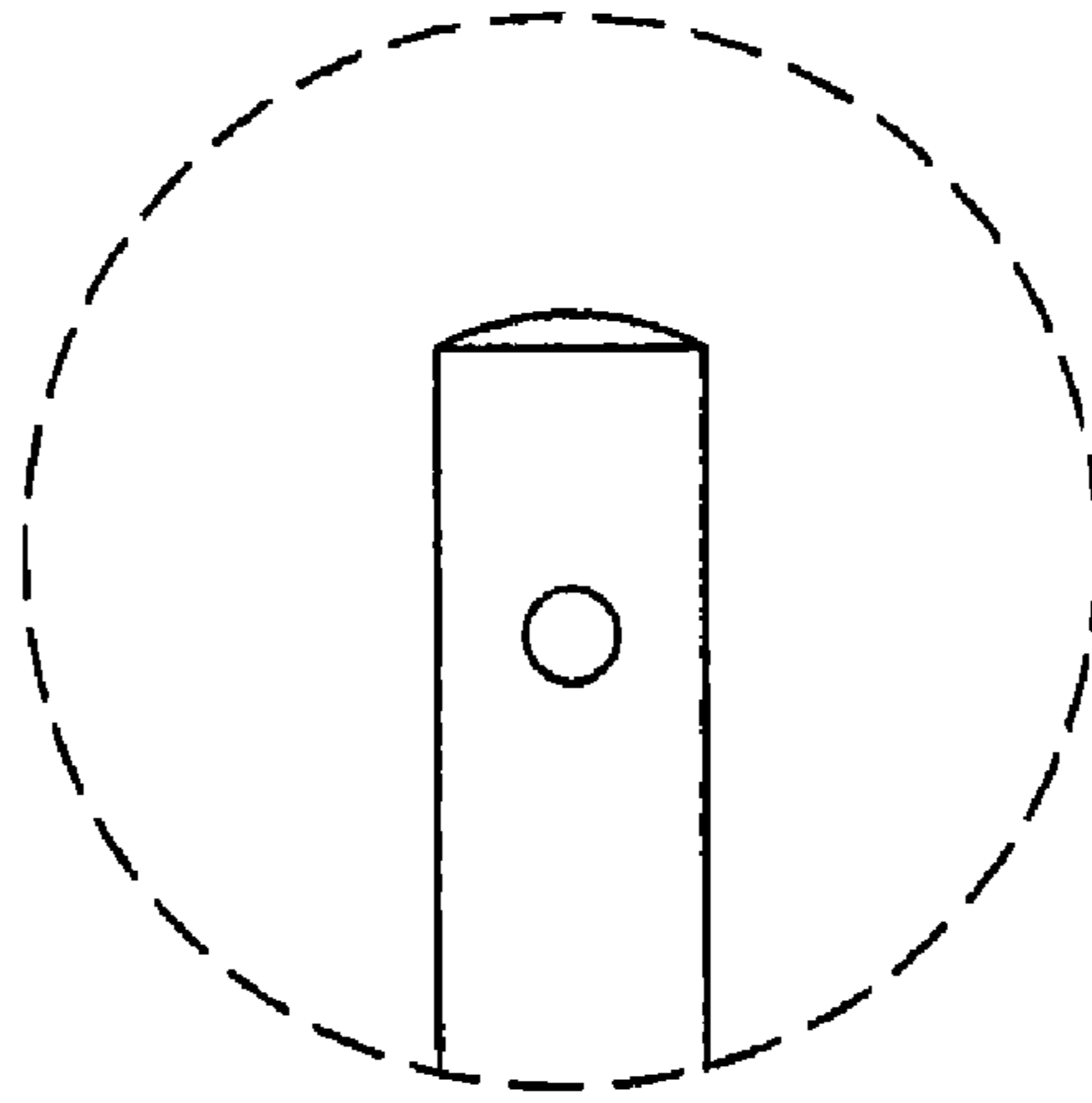


FIG. 4

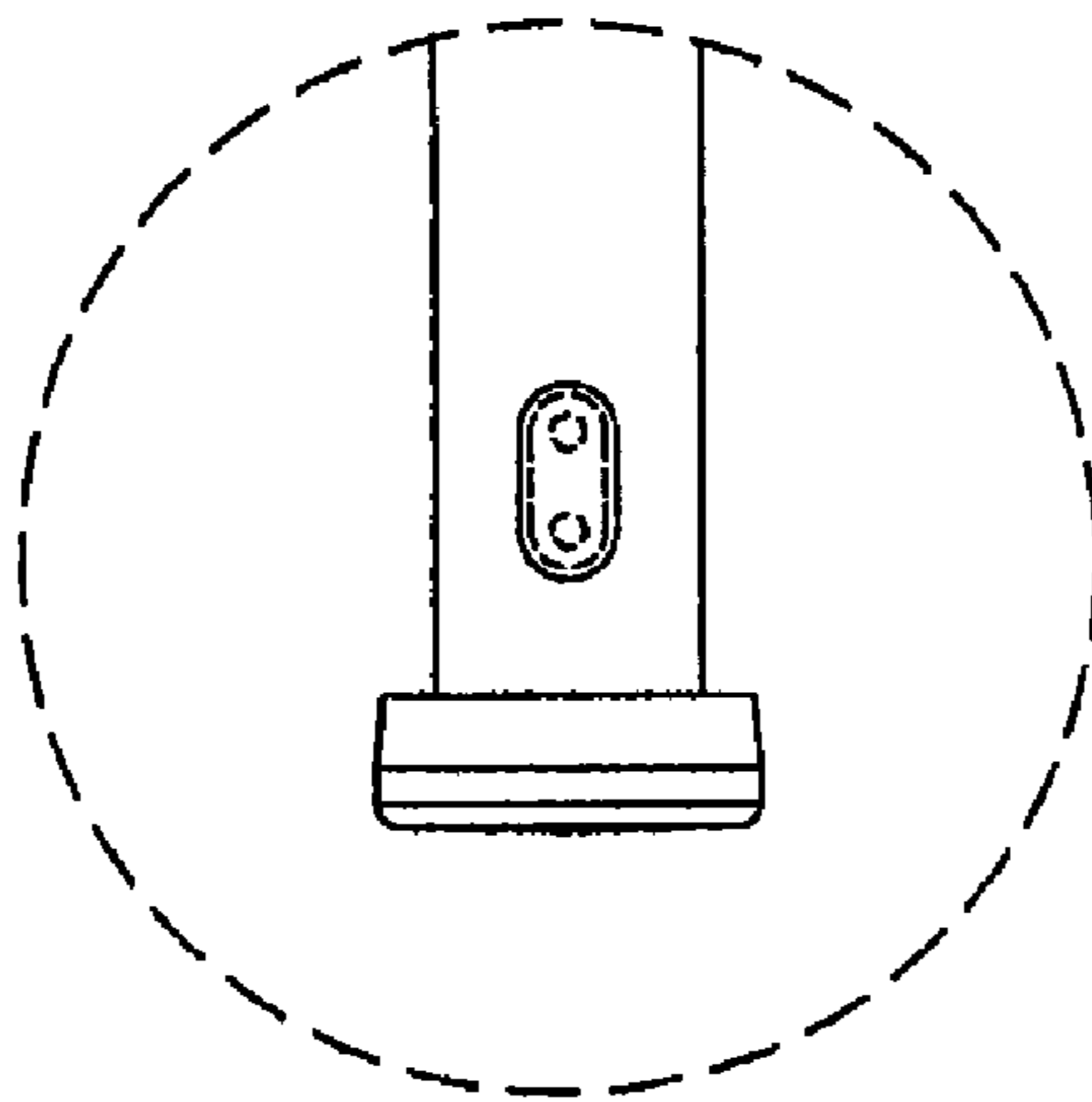


FIG. 3



FIG. 8



FIG. 9

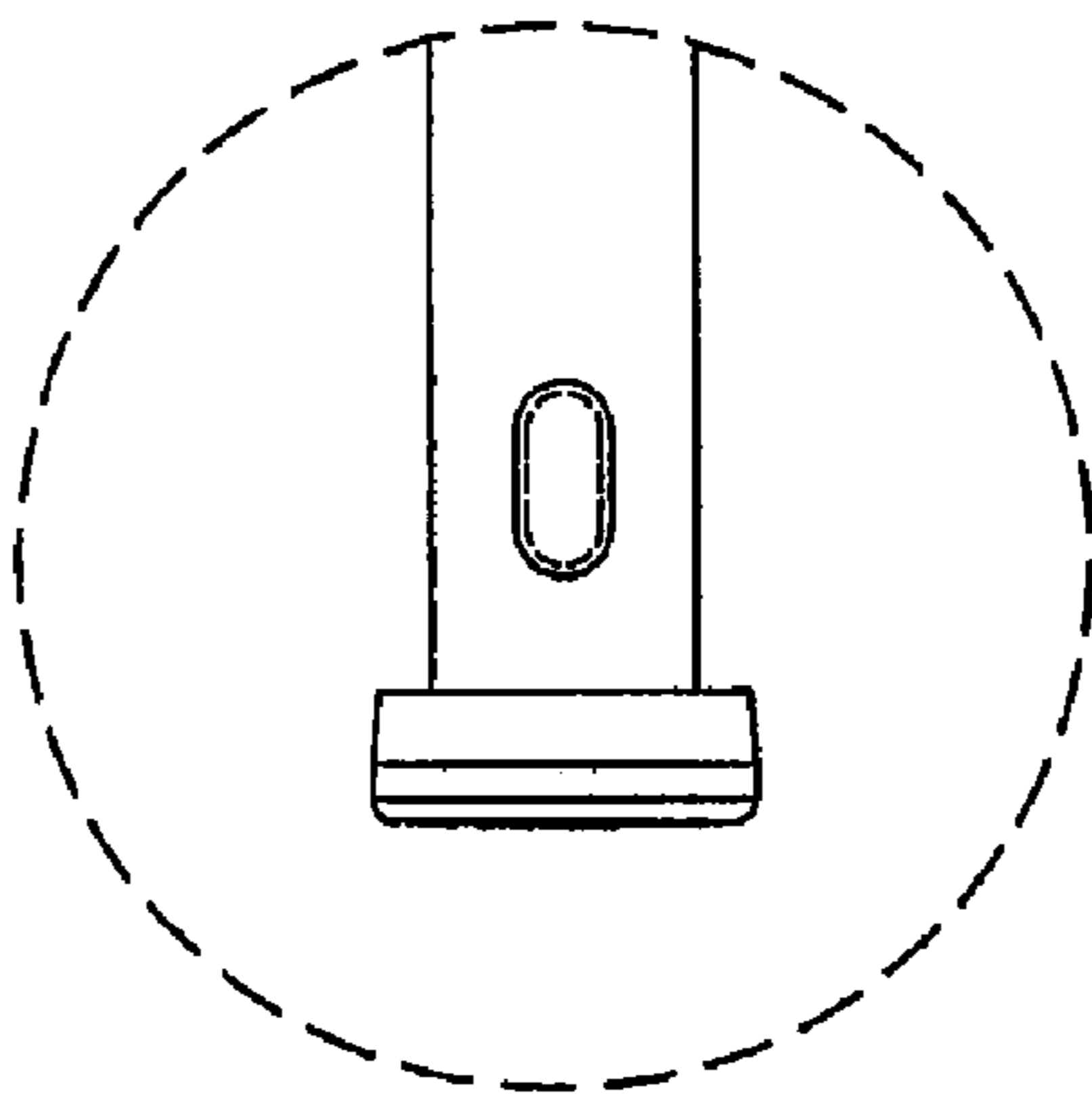


FIG. 7