



US00D613881S

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

(10) **Patent No.:** **US D613,881 S**  
(45) **Date of Patent:** **\*\* Apr. 13, 2010**

(54) **HELICAL PIER WITH OPPOSED EXTERNAL BARS**

(75) Inventor: **Howard A. Perko**, Fort Collins, CO (US)

(73) Assignee: **Magnum Piering, Inc.**, West Chester, OH (US)

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

(21) Appl. No.: **29/351,280**

(22) Filed: **Dec. 3, 2009**

**Related U.S. Application Data**

(62) Division of application No. 29/326,895, filed on Oct. 27, 2008.

(51) **LOC (9) Cl.** ..... **25-01**

(52) **U.S. Cl.** ..... **D25/122**

(58) **Field of Classification Search** ..... D25/121, D25/126, 122; 405/231, 252.1, 253, 285  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,643,843 A	6/1953	Brown
3,999,391 A	12/1976	Meredith
4,339,899 A	7/1982	Klenk et al.
4,695,203 A	9/1987	Gregory
4,708,528 A	11/1987	Rippe
4,925,345 A	5/1990	McCown, Jr. et al.
5,011,336 A	4/1991	Hamilton et al.
5,120,163 A	6/1992	Holdeman et al.

(Continued)

**OTHER PUBLICATIONS**

Screw Anchor Designs and Configurations, Almita Manufacturing Ltd. web page: www.almita.com/anchor.htm; printed Dec. 4, 2002 (1 page).

*Primary Examiner*—Doris Clark

(74) *Attorney, Agent, or Firm*—Wood, Herron & Evans, LLP

(57) **CLAIM**

The ornamental design for a helical pier with opposed external bars, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an embodiment of my new, original and ornamental design;

FIG. 2 is a front view of the embodiment of FIG. 1;

FIG. 3 is a left side view of the embodiment of FIG. 1;

FIG. 4 is a right side view of the embodiment of FIG. 1;

FIG. 5 a rear view of the embodiment of FIG. 1;

FIG. 6 is an enlarged top view of the embodiment of FIG. 1;

FIG. 7 is an enlarged bottom view of the embodiment of FIG. 1;

FIG. 8 is a perspective view of an alternative embodiment of my new, original and ornamental design;

FIG. 9 is a front view of the embodiment of FIG. 8;

FIG. 10 is a left side view of the embodiment of FIG. 8;

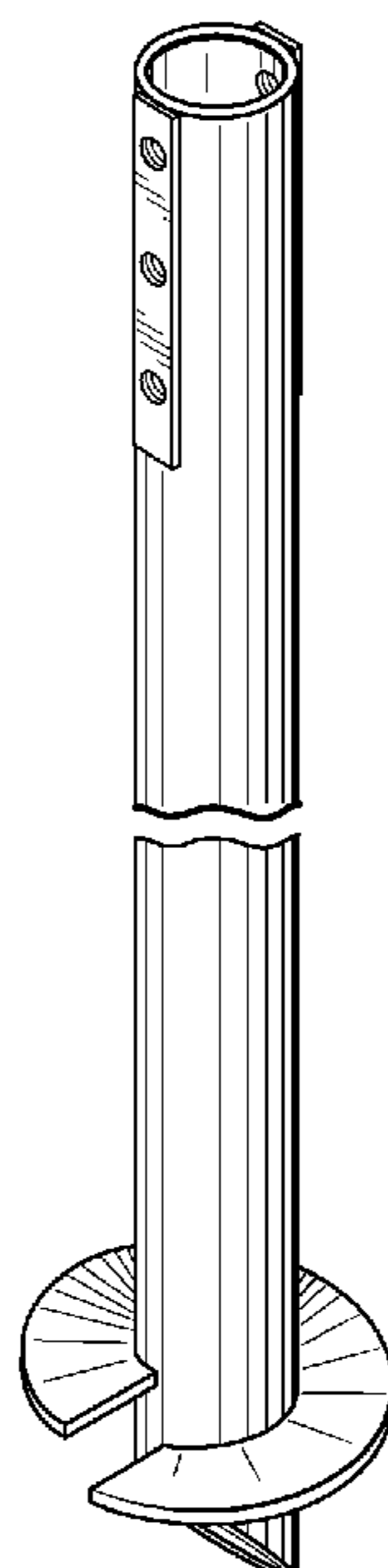
FIG. 11 is a right side view of the embodiment of FIG. 8;

FIG. 12 is a rear view of the embodiment of FIG. 8;

FIG. 13 is an enlarged top view of the embodiment of FIG. 8; and,

FIG. 14 is an enlarged bottom view of the embodiment of FIG. 8.

**1 Claim, 2 Drawing Sheets**



# US D613,881 S

Page 2

---

U.S. PATENT DOCUMENTS					
			6,352,391	B1 *	3/2002 Jones ..... 405/252.1
			6,514,012	B2	2/2003 Gregory et al.
			6,641,332	B1	11/2003 Alvarado
			7,090,437	B2	8/2006 Pinkleton
			7,220,081	B1	5/2007 Gantt, Jr.
			7,241,079	B2 *	7/2007 Francis ..... 405/231
			2002/0176749	A1 *	11/2002 Provost ..... 405/230
			2003/0159839	A1	8/2003 Perko
			2004/0071511	A1 *	4/2004 May ..... 405/231
			2004/0105727	A1 *	6/2004 Jones ..... 405/231
			* cited by examiner		
5,171,107	A	12/1992 Hamilton et al.			
5,213,448	A	5/1993 Seider et al.			
5,234,287	A	8/1993 Rippe, Jr.			
5,575,593	A	11/1996 Raaf			
D408,560	S *	4/1999 Bruder ..... D25/122			
5,904,447	A	5/1999 Sutton et al.			
6,058,662	A	5/2000 Perko			
6,074,133	A	6/2000 Kelsey			
6,183,167	B1	2/2001 Ruiz et al.			

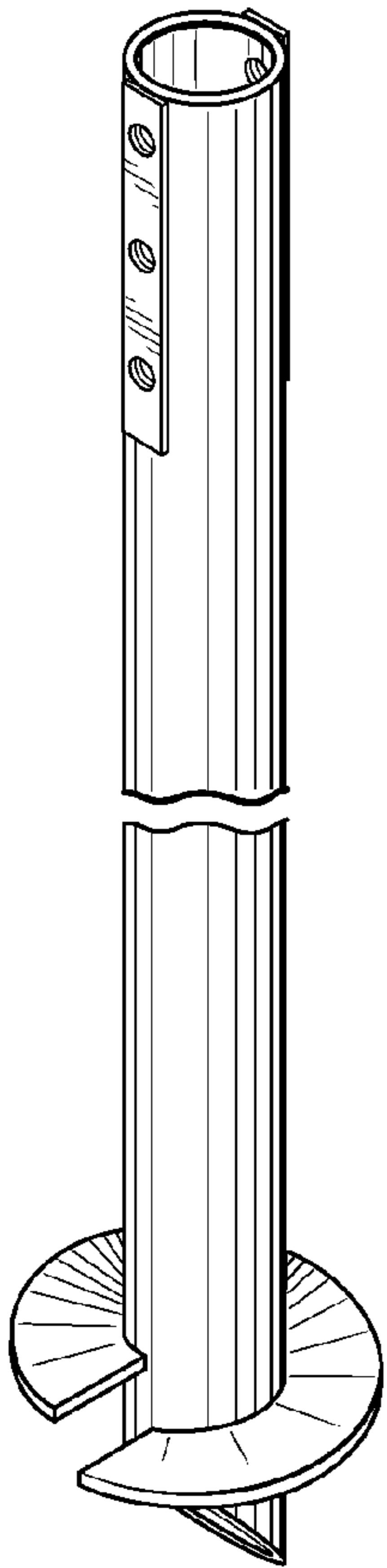


FIG. 1

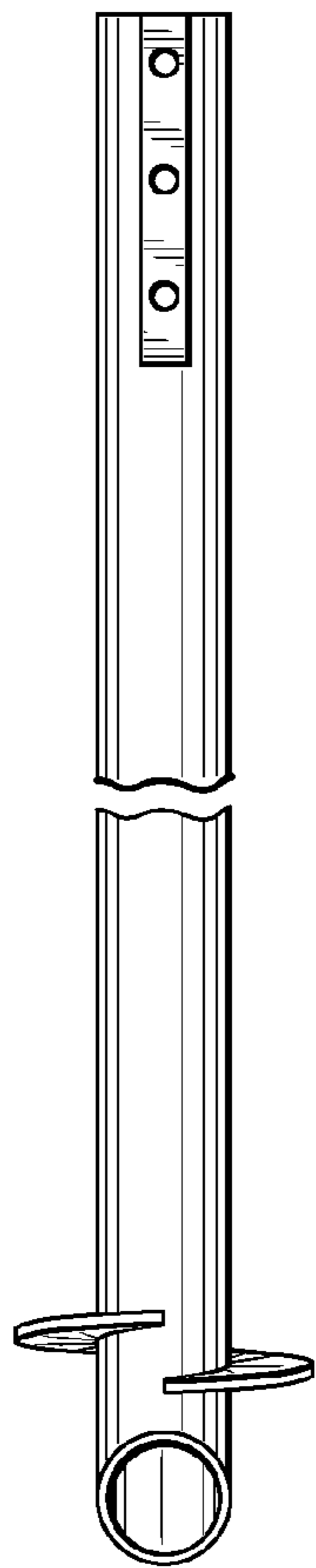


FIG. 2

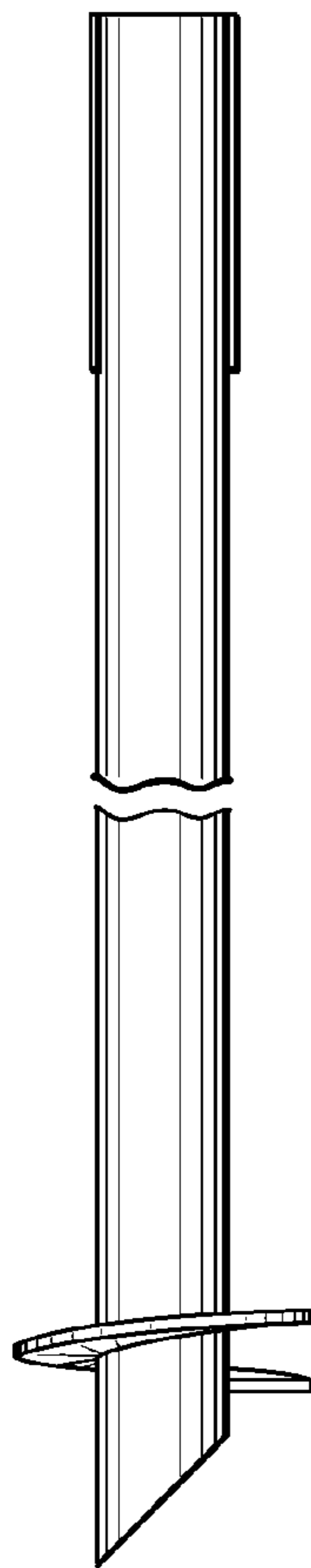


FIG. 3

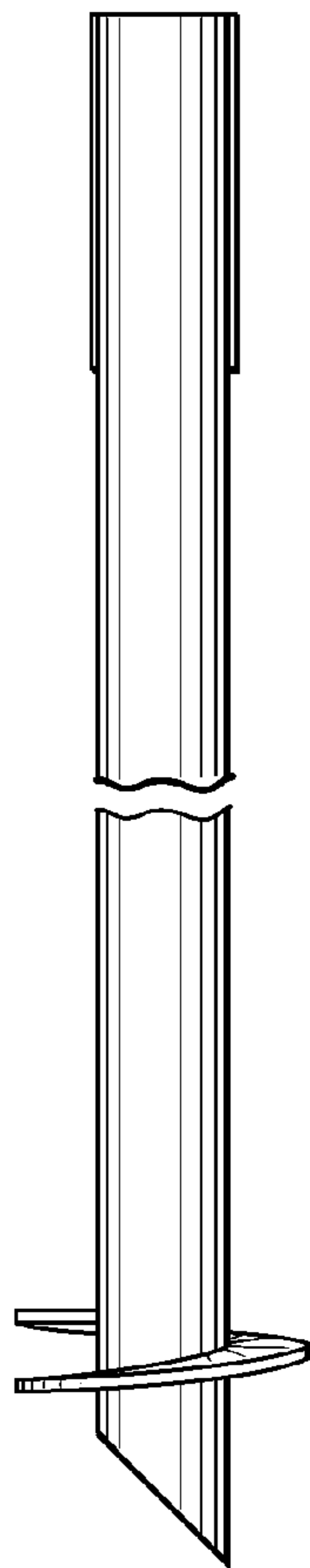


FIG. 4

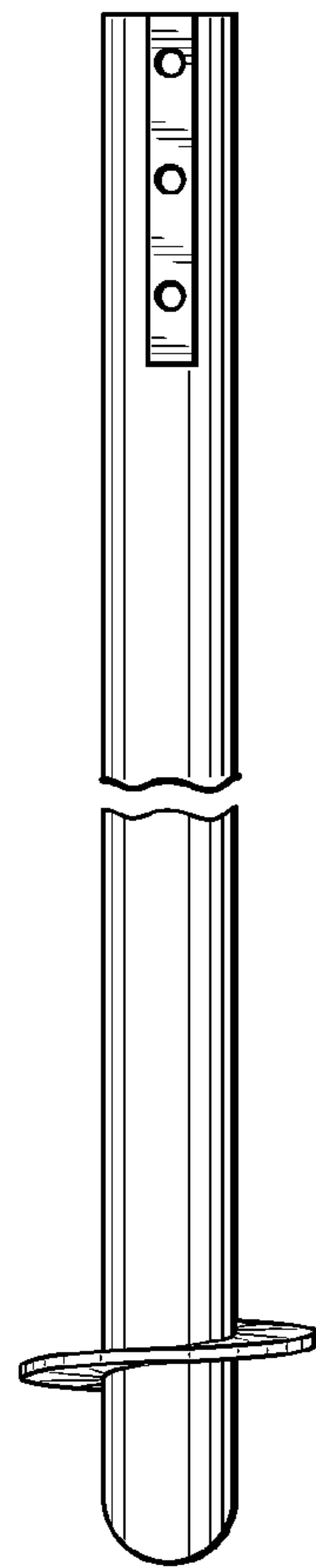


FIG. 5

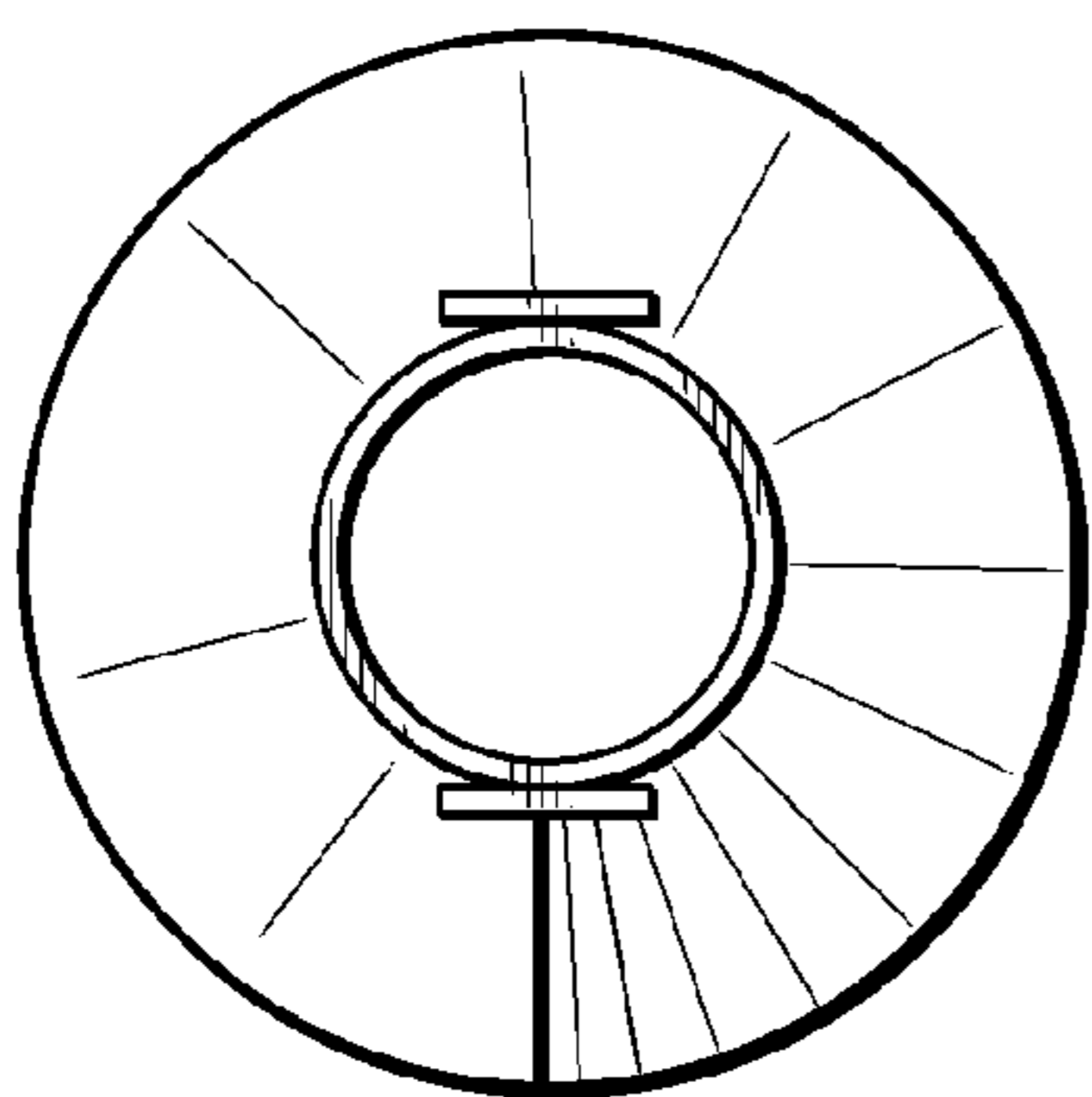


FIG. 6

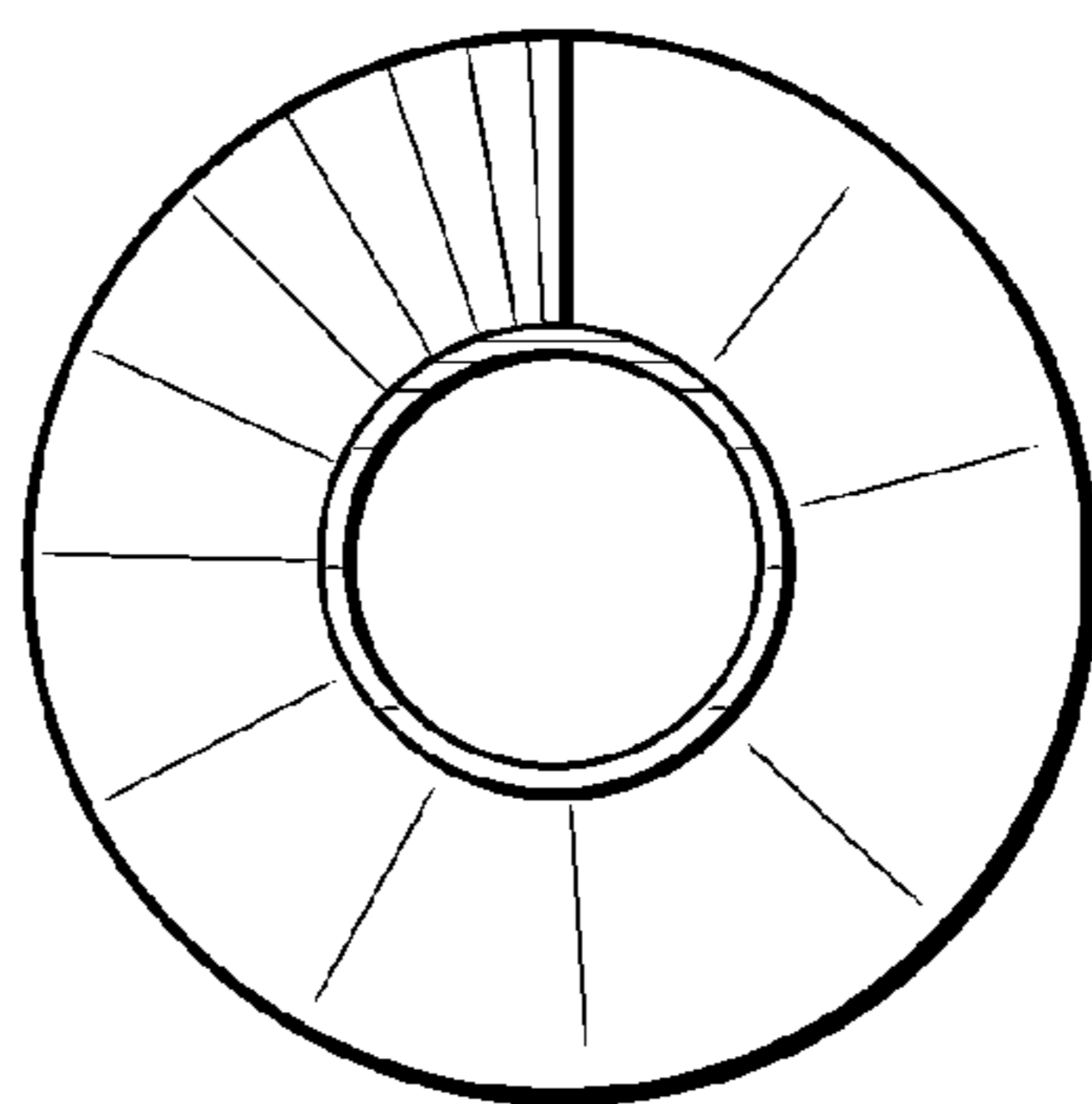


FIG. 7

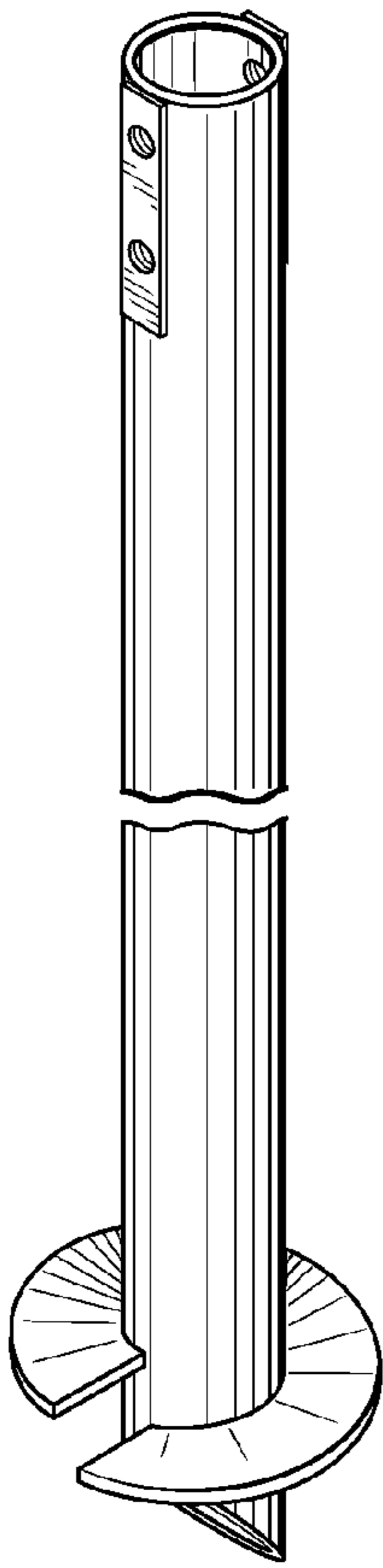


FIG. 8

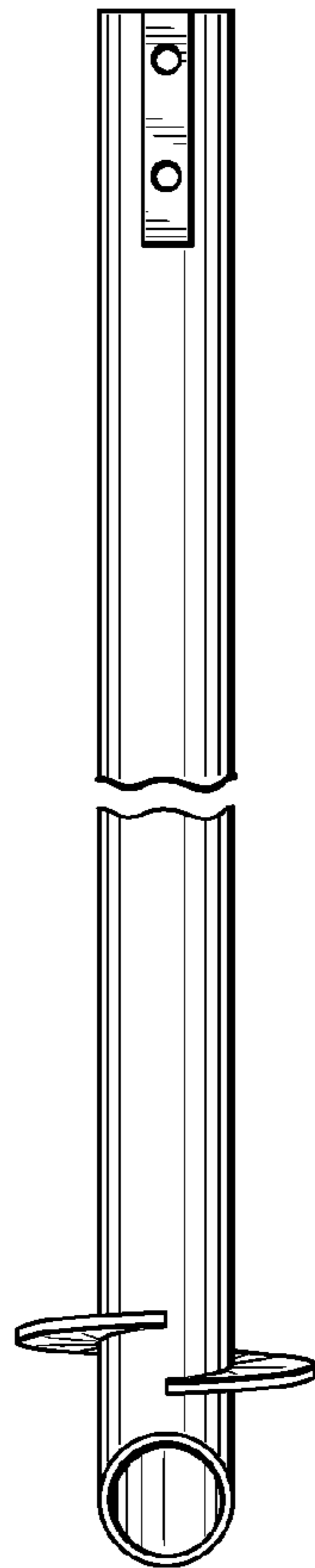


FIG. 9

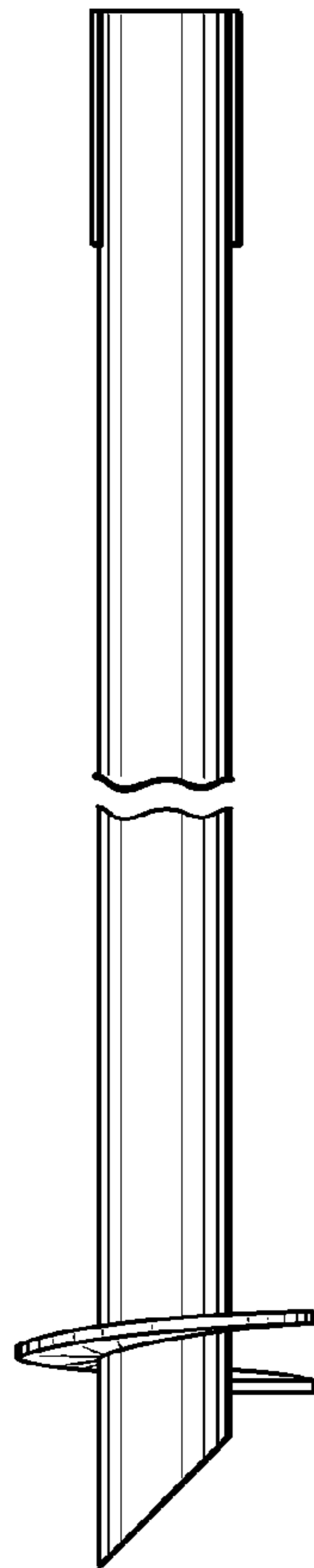


FIG. 10

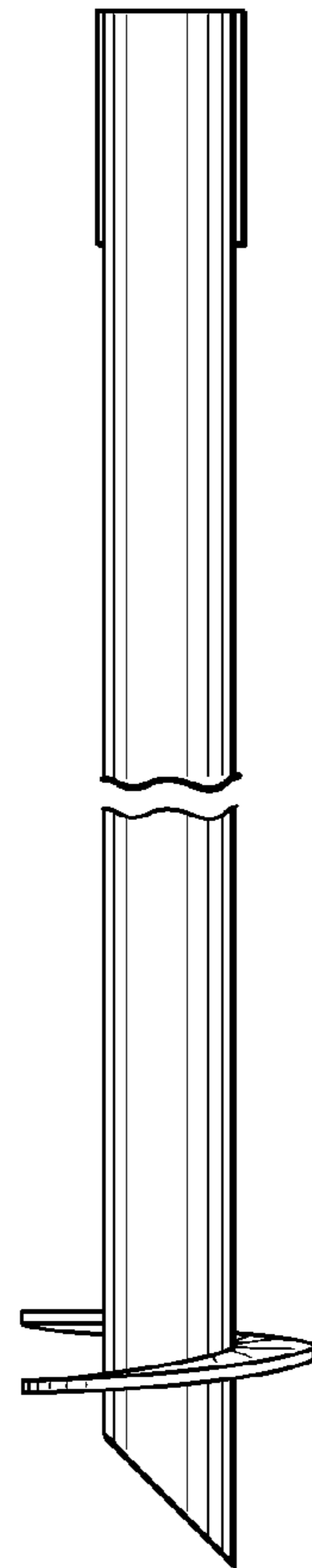


FIG. 11

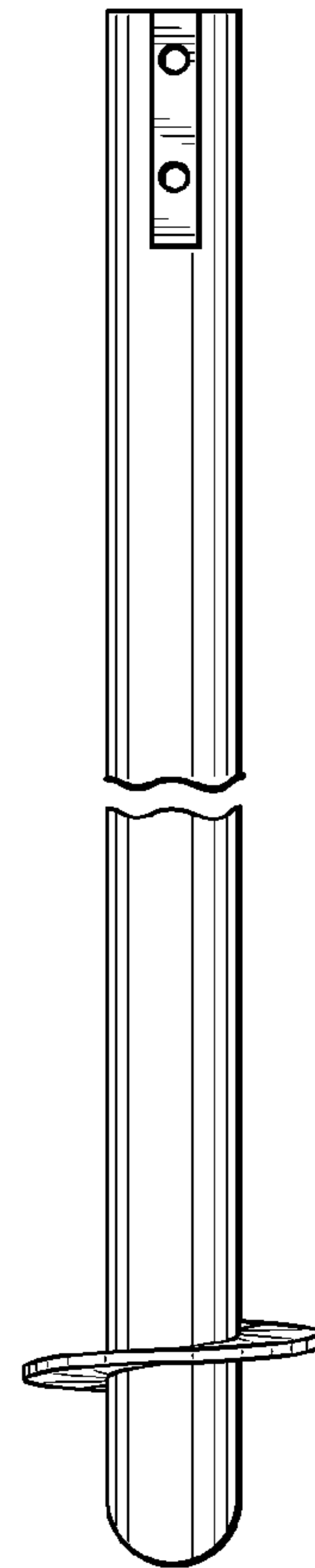


FIG. 12

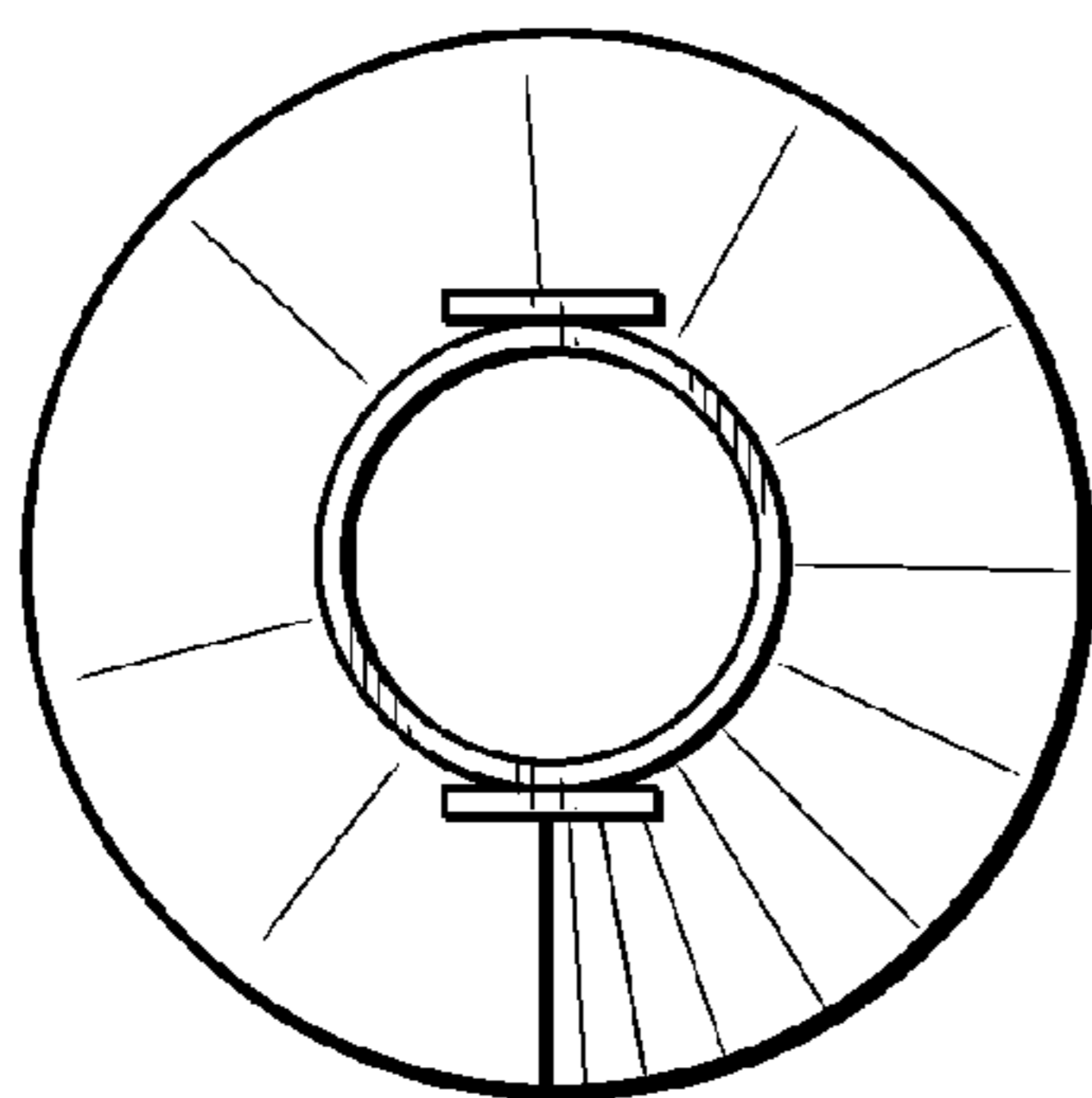


FIG. 13

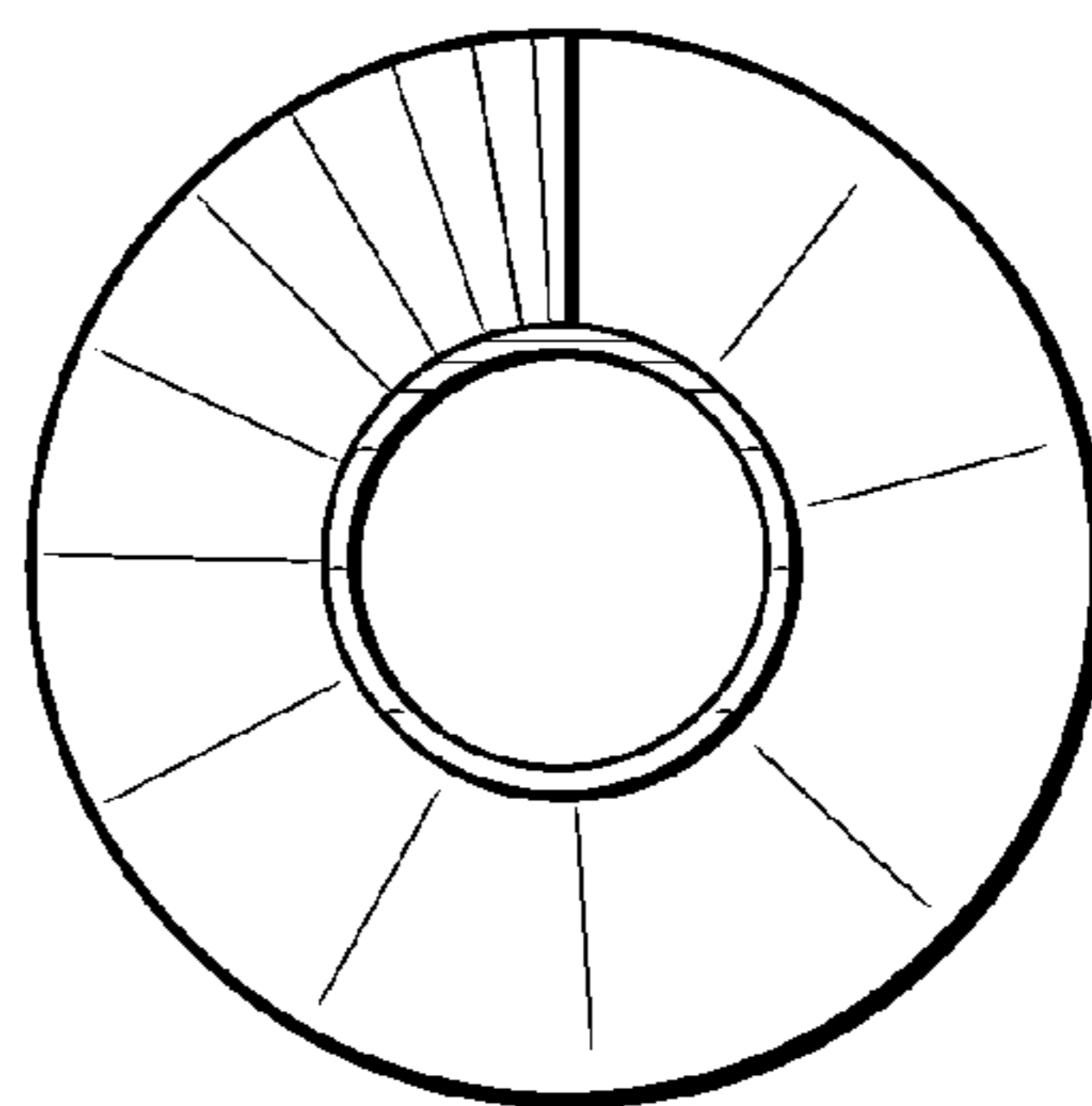


FIG. 14