

US00D683435S

(12) **United States Design Patent**
Cantu et al.

(10) **Patent No.:** **US D683,435 S**

(45) **Date of Patent:** **** May 28, 2013**

(54) **PLUG**

(75) **Inventors:** **Luis Eloy Olivo Cantu**, Mission, TX (US); **Joel Cantu Gomez**, Fraccionamiento Colinas Del Predegal Reynosa Tam (MX)

(73) **Assignee:** **High Performance CT Tools, L.L.C.**, Mission, TX (US)

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

(21) **Appl. No.:** **29/369,791**

(22) **Filed:** **Sep. 13, 2010**

(51) **LOC (9) Cl.** **23-01**

(52) **U.S. Cl.**
USPC **D23/260**

(58) **Field of Classification Search** D23/233–237, D23/244–249, 255–269, 310; 166/101, 106, 166/118, 123, 127, 134, 135, 140, 153, 179, 166/184, 217, 250.04, 250.14, 270, 285, 166/376, 386

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,303,091	A *	5/1919	Mack	166/135
3,283,821	A *	11/1966	Brown	166/134
D326,500	S	5/1992	Pettesch	
5,301,760	A	4/1994	Graham	
D347,880	S	6/1994	Benson	
D351,013	S	9/1994	Mathison et al.	
5,390,737	A	2/1995	Jacobi et al.	
5,540,279	A	7/1996	Branch et al.	
5,701,959	A	12/1997	Hushbeck et al.	
5,819,846	A	10/1998	Bolt, Jr.	
6,167,963	B1	1/2001	McMahan et al.	
D441,053	S *	4/2001	Fan	D23/233
6,220,349	B1	4/2001	Vargus et al.	
6,491,108	B1	12/2002	Slup et al.	
6,581,681	B1	6/2003	Zimmerman et al.	

6,708,770	B2	3/2004	Slup et al.	
6,796,376	B2	9/2004	Frazier	
7,082,991	B2 *	8/2006	Sommers et al.	166/134
7,163,066	B2	1/2007	Lehr	
8,066,065	B2 *	11/2011	Buckner	166/118
8,127,856	B1 *	3/2012	Nish et al.	166/376
2003/0000710	A1 *	1/2003	Turley et al.	166/386
2006/0131031	A1 *	6/2006	McKeachnie et al.	166/376
2007/0062689	A1 *	3/2007	Moyes	166/123
2008/0190600	A1 *	8/2008	Shkurti et al.	166/134
2010/0084127	A1 *	4/2010	Turley et al.	166/140
2012/0118561	A1 *	5/2012	Frazier	166/135

OTHER PUBLICATIONS

“Drillable Bridge Plugs,” Baker Hughes, <http://www.bakerhughes.com/products-and-services/completions-and-productions/wellbore-intervention/remedial-and-stimulation/drillable-bridge-plugs>, last accessed Aug. 14, 2010.

(Continued)

Primary Examiner — Garth Rademaker

(74) *Attorney, Agent, or Firm* — Fulbright & Jaworski L.L.P.

(57) **CLAIM**

The ornamental design for a plug, as shown and described.

DESCRIPTION

FIG. 1 is a front, left, bottom perspective view of a plug showing our design.

FIG. 2 is a left side elevation view thereof.

FIG. 3 is a right side elevation view thereof.

FIG. 4 is a back elevation view thereof.

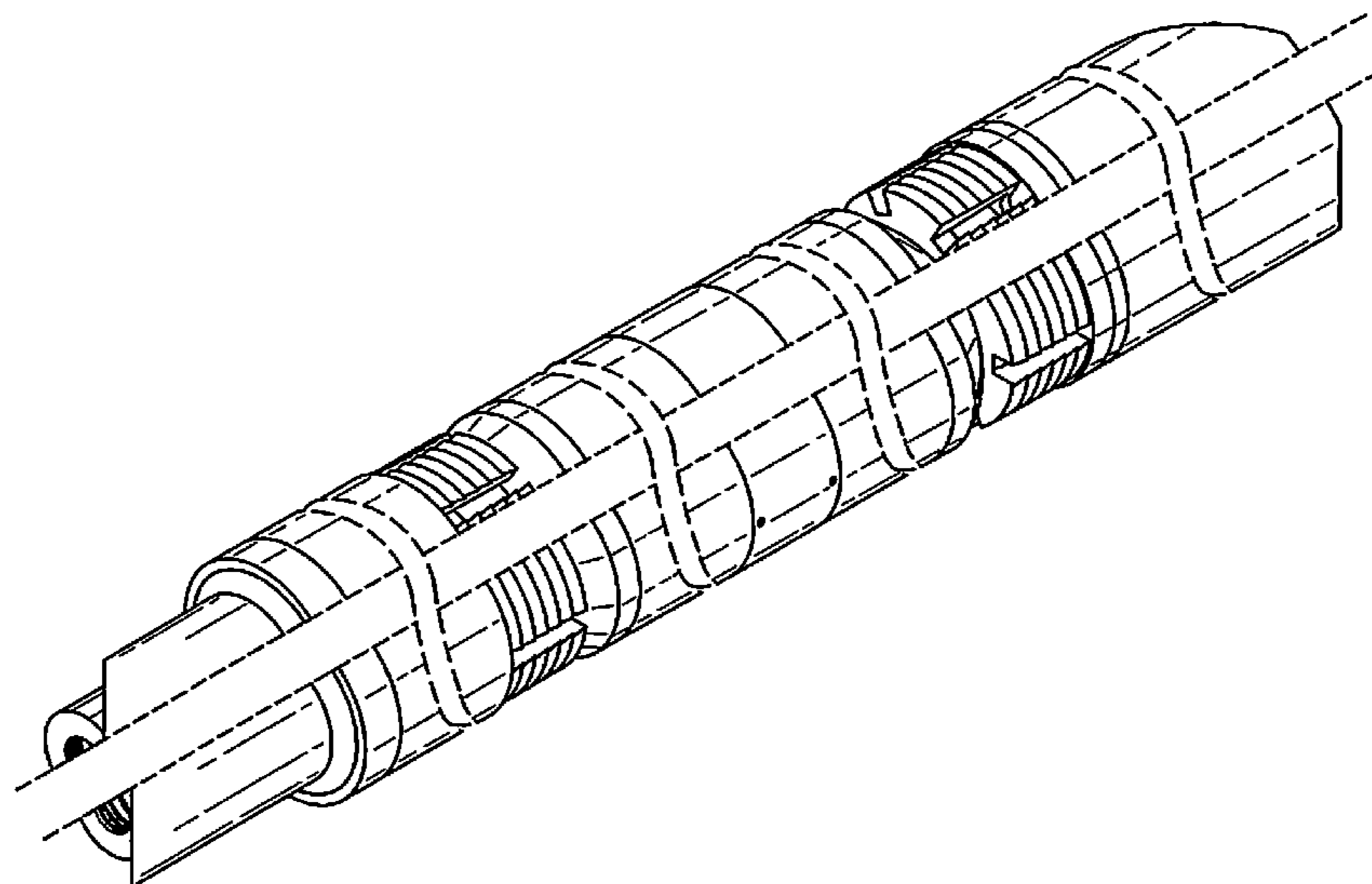
FIG. 5 is a front elevation view thereof.

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

The broken lines in FIGS. 1-7 illustrate breaks which indicate that the plug has no particular length, circumference, or width. None of the broken lines form any part of the claimed design.

1 Claim, 4 Drawing Sheets



OTHER PUBLICATIONS

“Technology Applications,” *Journal of Petroleum Technology* (online version), Apr. 1999, pp. 108-109, Society of Petroleum Engineers.

“People & Companies,” *Drilling Contractor*, Mar./Apr. 1999, p. 49.

“Magnum Oil Tools International—Downhole Completion Tools,” http://www.magnumoiltools.com/magnummillez__original.cfm, last accessed Aug. 14, 2010, 5 pp.

* cited by examiner

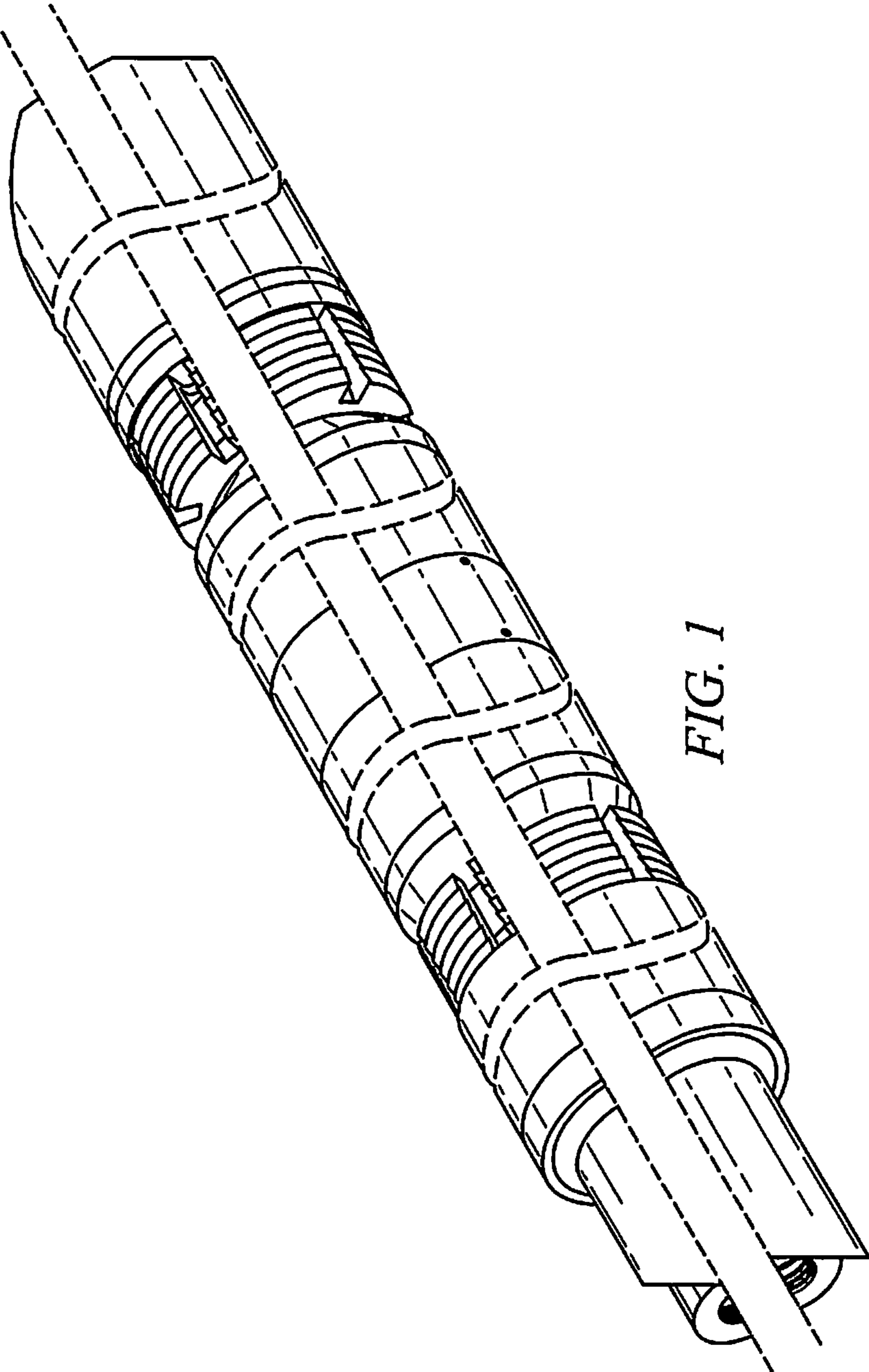


FIG. 1

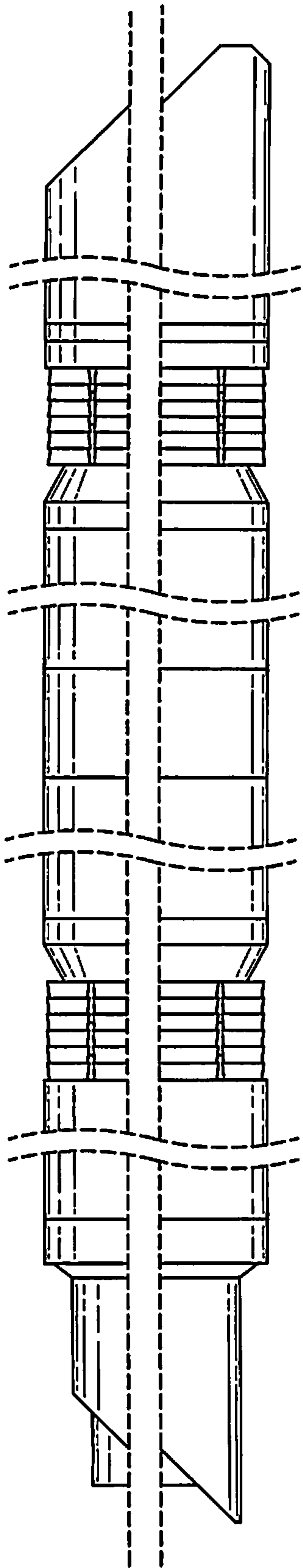


FIG. 2

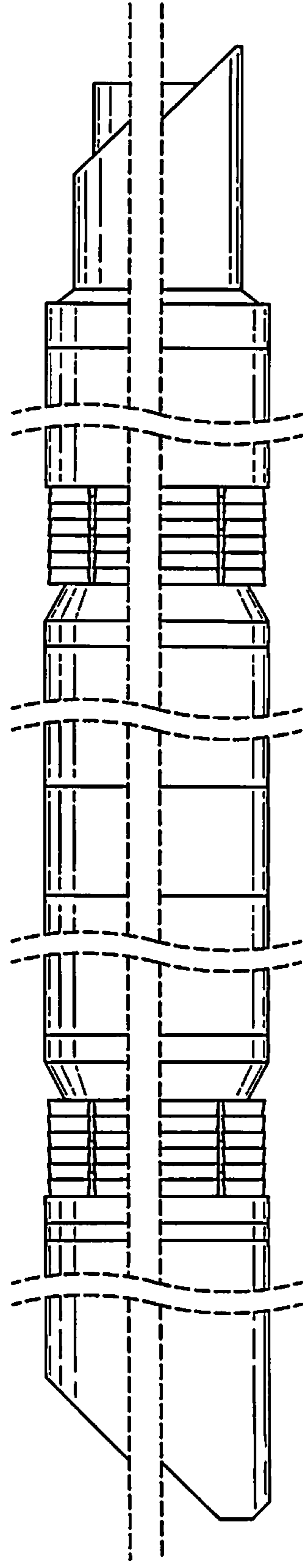


FIG. 3

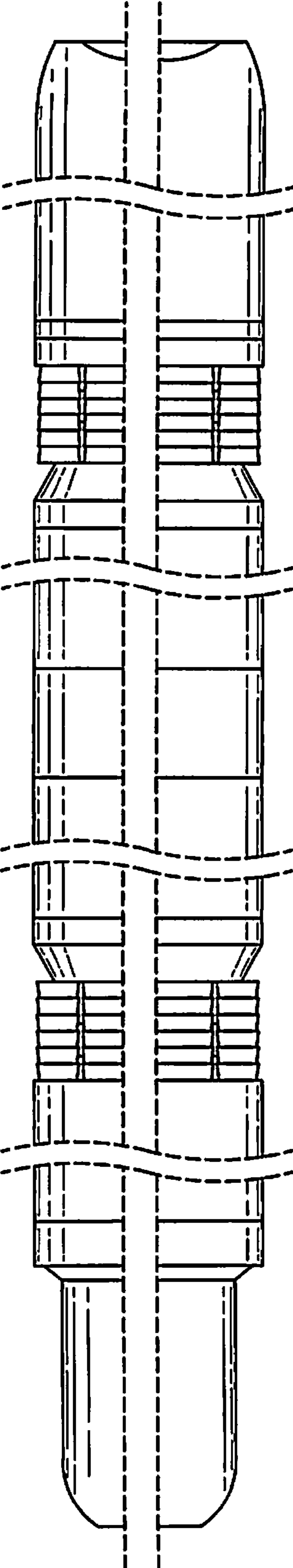


FIG. 4

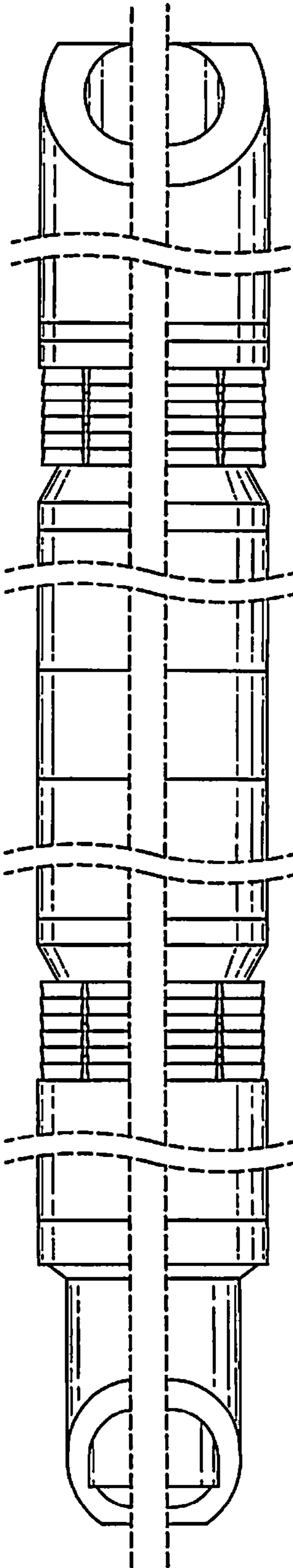


FIG. 5

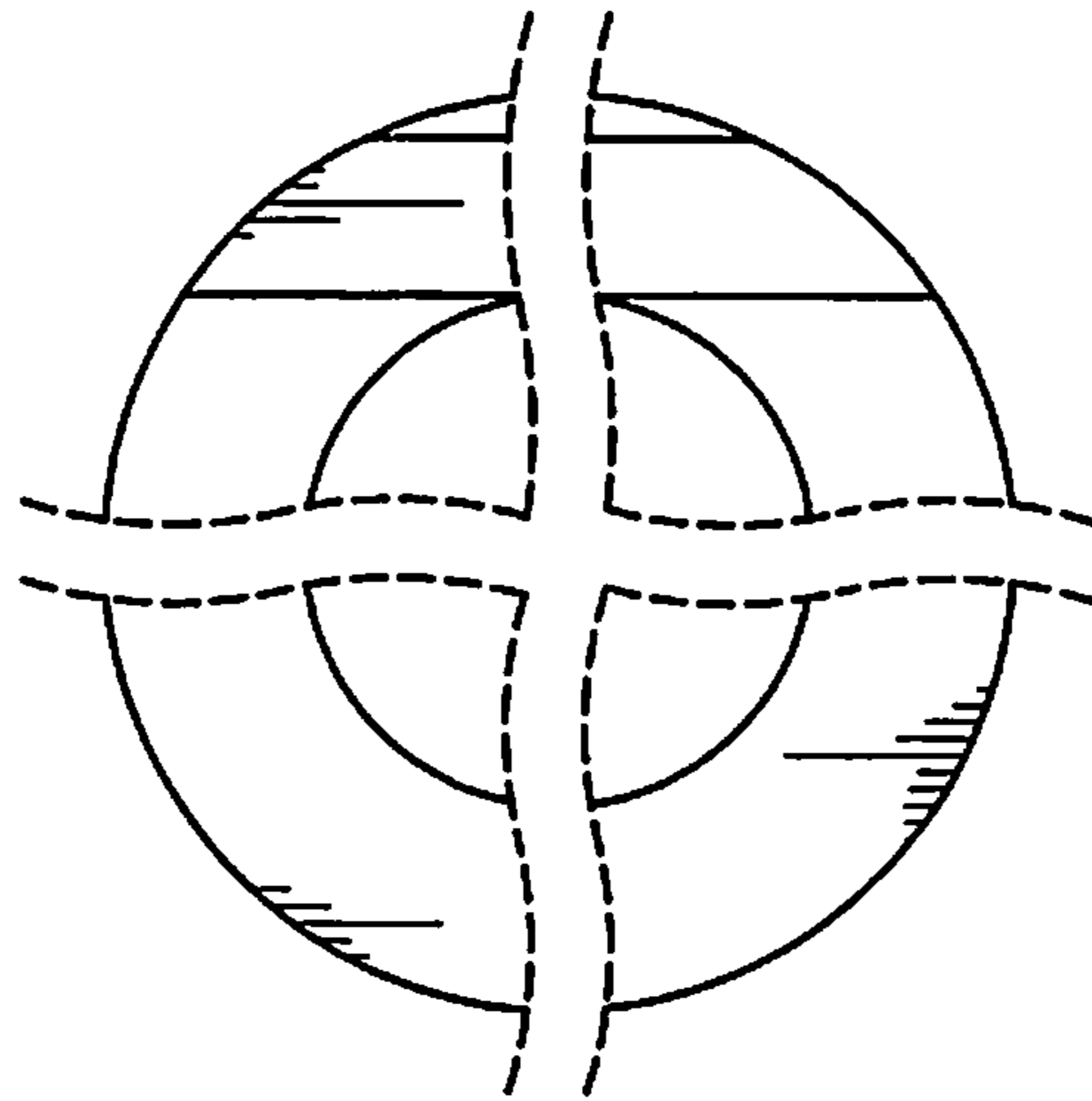


FIG. 6

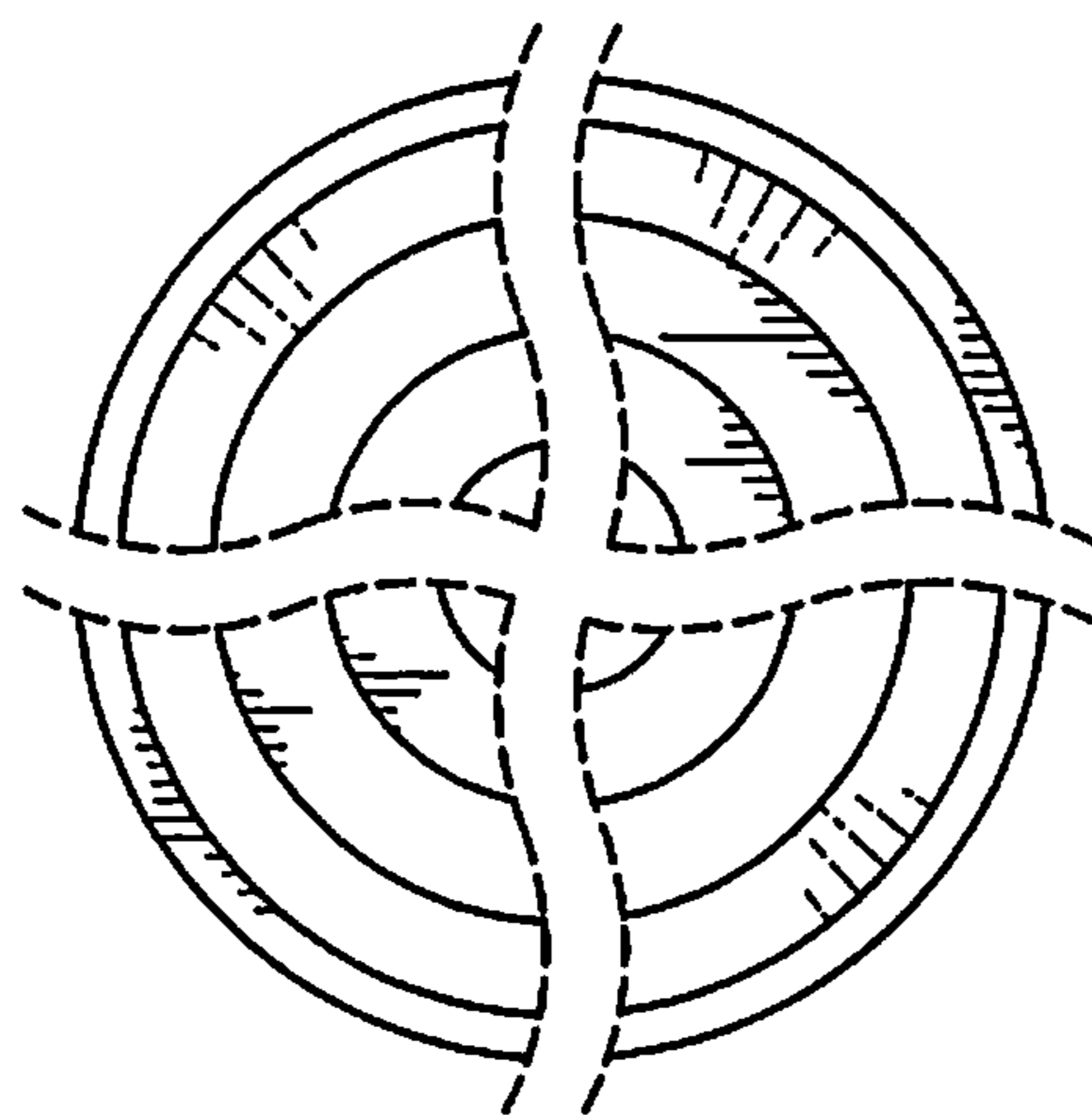


FIG. 7