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(12) **United States Design Patent** (10) **Patent No.:** **US D948,045 S**
Sweeney et al. (45) **Date of Patent:** **** Apr. 5, 2022**

(54) **BONE INSTRUMENT SHANK** D378,314 S * 3/1997 Koros D24/155
D390,956 S * 2/1998 Sjostrom D24/146
6,186,712 B1 * 2/2001 Senzaki B23B 31/026
279/125
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D449,504 S * 10/2001 Boyle D8/70
D574,958 S 8/2008 Schendel et al.
D606,196 S * 12/2009 Fares D24/156
D614,941 S 5/2010 Murphy
D637,289 S * 5/2011 Berberich D24/146
D652,929 S * 1/2012 Sibhatu D24/156
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(73) Assignee: **Spinal Generations, LLC**, Mokena, IL (US)
(**) Term: **15 Years** (Continued)

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **29/725,657**

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Primary Examiner — L. A. Grabenstetter

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Related U.S. Application Data

(63) Continuation-in-part of application No. 29/696,644, filed on Jun. 28, 2019, now Pat. No. Des. 926,321, which is a continuation of application No. 29/673,291, filed on Dec. 13, 2018, now Pat. No. Des. 926,320.

(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/146**

(58) **Field of Classification Search**
USPC D8/70, 354; D24/127, 128, 133, 140, D24/145–147, 155, 156; D15/21, 139
CPC A61B 17/1615; A61B 17/1697
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D242,428 S 11/1976 Morris
D358,212 S 5/1995 Sullivan
D362,720 S * 9/1995 Holmen D24/155
D366,115 S 1/1996 Sullivan

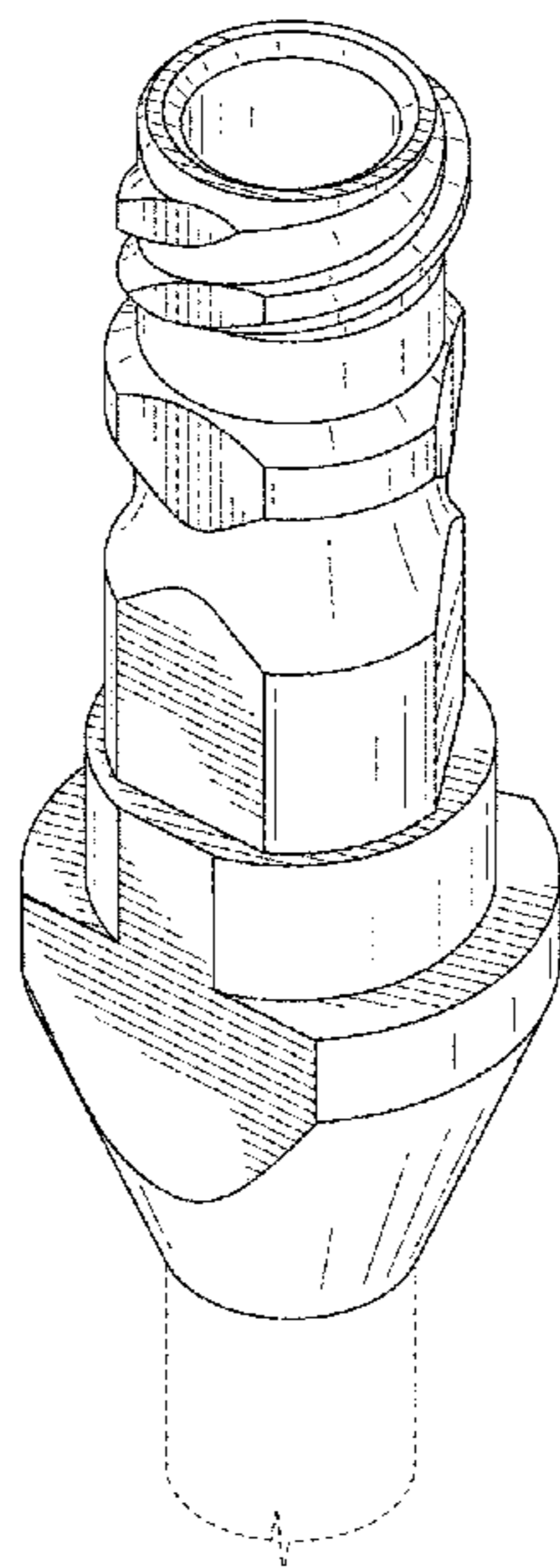
(57) **CLAIM**

We claim the ornamental design for a bone instrument shank, as shown and described.

DESCRIPTION

FIG. 1 is a front, right perspective view of the claimed design;
FIG. 2 is a rear right perspective view of the claimed design of FIG. 1;
FIG. 3 is a front side view of the claimed design of FIG. 1;
FIG. 4 is a rear side view of the claimed design of FIG. 1;
FIG. 5 is a left side view of the claimed design of FIG. 1;
FIG. 6 is a right side view of the claimed design of FIG. 1;
FIG. 7 is cross-sectional view of the claimed design of FIG. 1;
FIG. 8 is a top view of the claimed design of FIG. 1; and
FIG. 9 is a bottom view of the claimed design of FIG. 1.
The broken lines depict portions of the bone instrument shank that form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D666,298	S *	8/2012	Sibhatu	D24/156
D706,893	S	6/2014	Diederich	
D710,175	S *	8/2014	Moss	D8/70
D732,669	S *	6/2015	Fisler	D24/156
D744,106	S	11/2015	Voudouris	
D773,926	S	12/2016	Sweeney et al.	
D801,796	S	11/2017	Sweeney et al.	
D803,038	S	11/2017	Baker et al.	
D803,039	S	11/2017	Karlsson	
D828,153	S	9/2018	Sato	
D830,820	S	10/2018	Sweeney	
D831,475	S	10/2018	Sweeney et al.	
D831,476	S	10/2018	Sweeney et al.	
D836,976	S	1/2019	Reese et al.	
D837,047	S	1/2019	Lin	
D882,085	S *	4/2020	Sweeney	D24/146
2005/0107800	A1	5/2005	Frankel et al.	
2009/0228012	A1	9/2009	Gangji et al.	
2010/0036381	A1	2/2010	Vanleeuwen et al.	
2011/0054537	A1	3/2011	Miller et al.	
2011/0056166	A1	3/2011	Bartlett	
2011/0112436	A1	5/2011	Jones et al.	
2011/0257691	A1	10/2011	Sutterlin et al.	
2012/0035670	A1 *	2/2012	Jackson	A61B 17/7032 606/305
2012/0143266	A1 *	6/2012	Jackson	A61B 17/7076 606/328
2013/0060293	A1 *	3/2013	Jackson	A61B 17/8605 606/305
2014/0309641	A1 *	10/2014	Bourque	A61B 17/16 606/80
2018/0243018	A1	8/2018	Lintula et al.	
2020/0187960	A1 *	6/2020	Sweeney	A61B 10/025

* cited by examiner

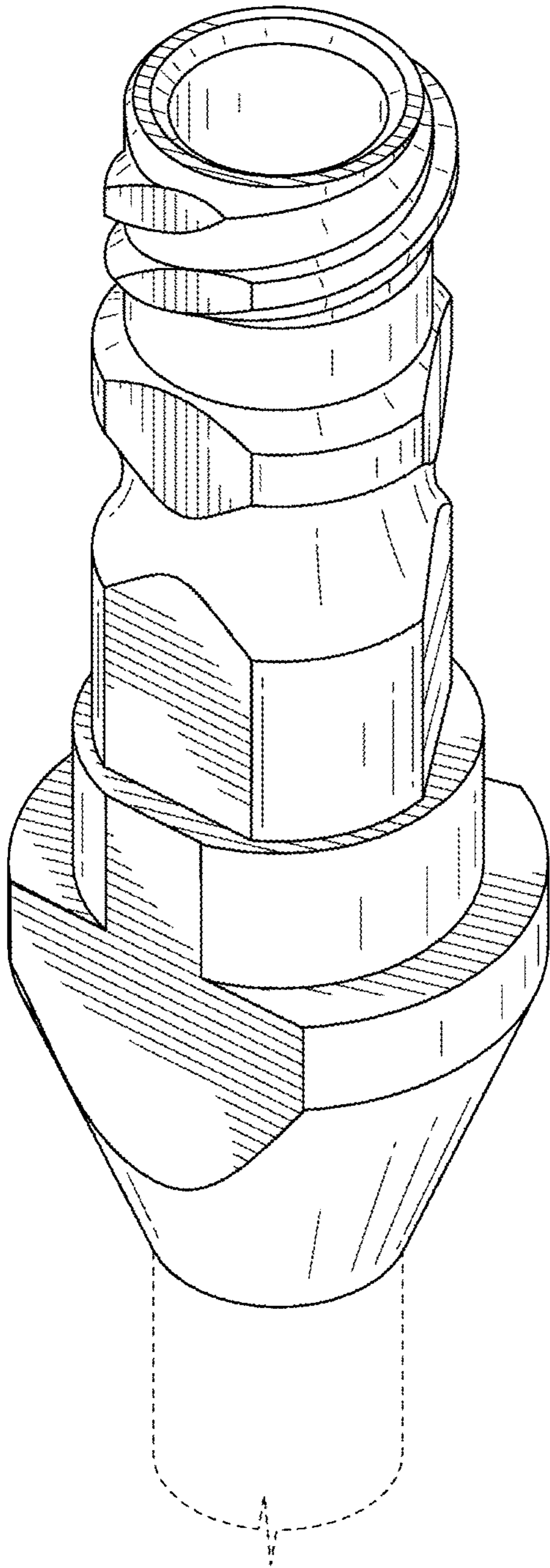


FIG. 1

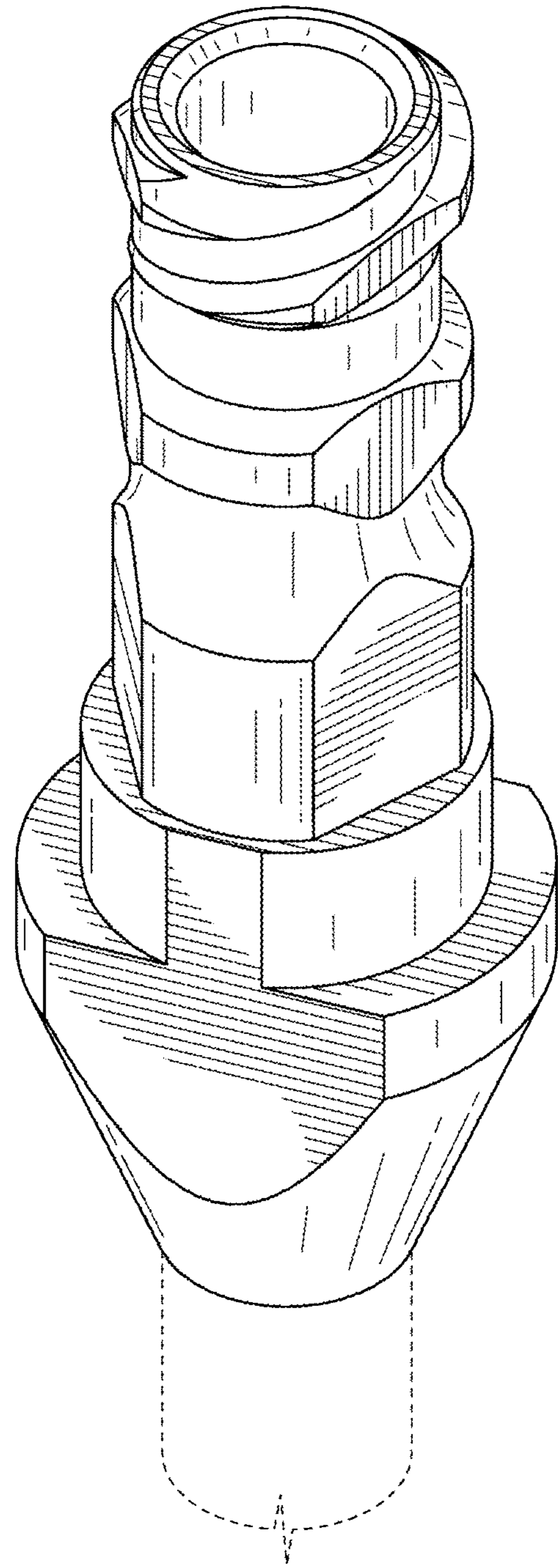


FIG. 2

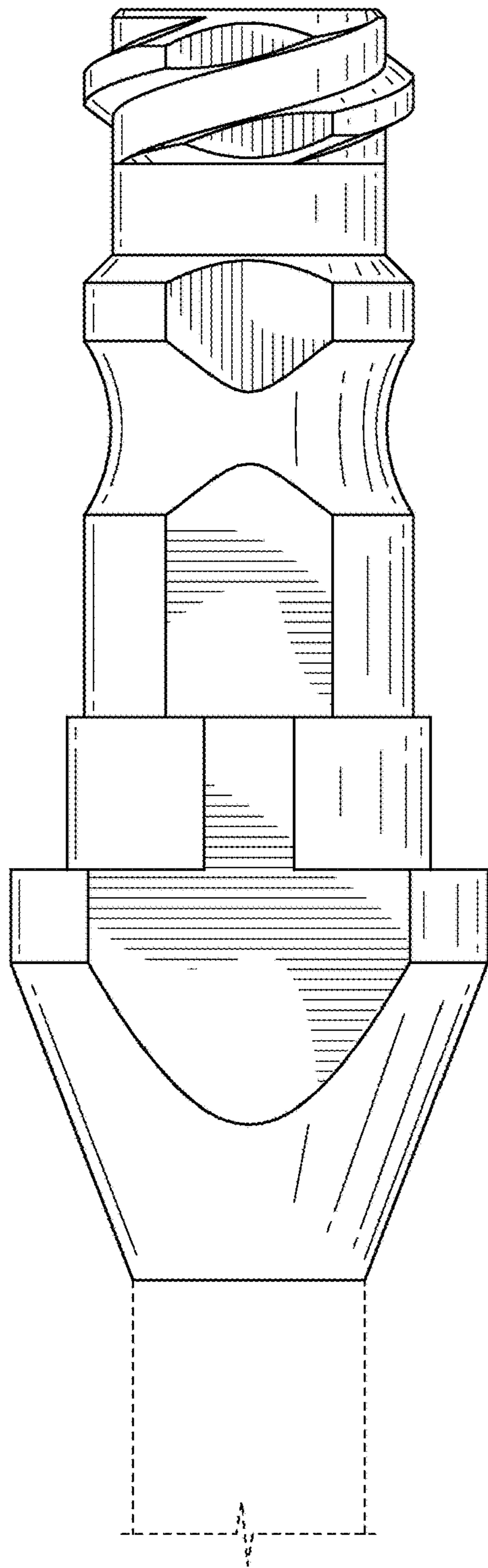


FIG. 3

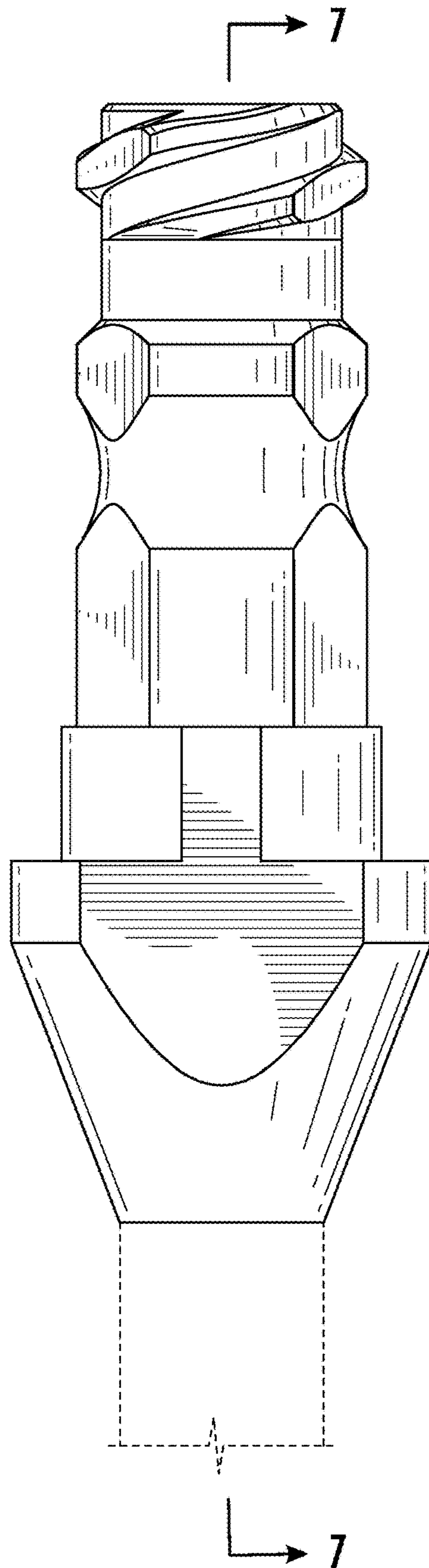


FIG. 4

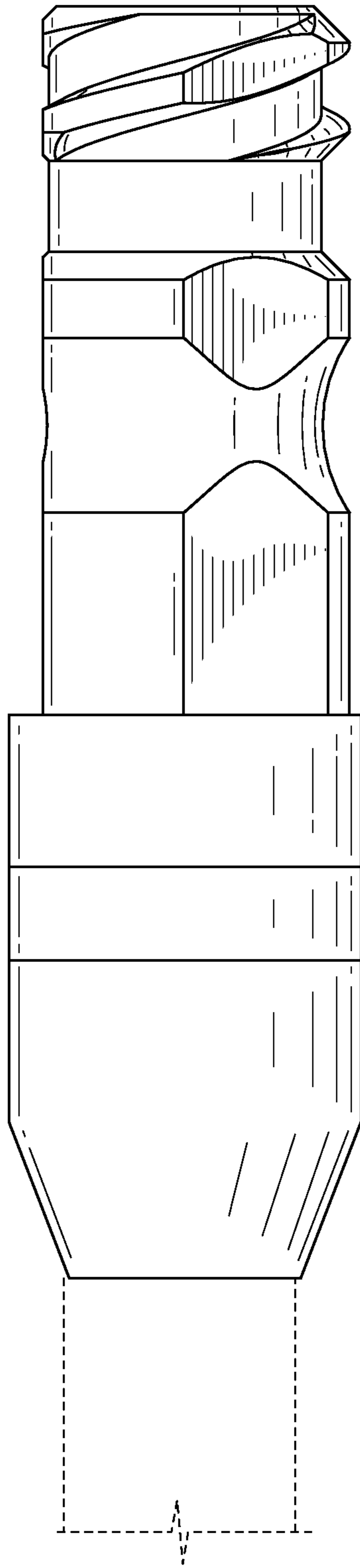


FIG. 5

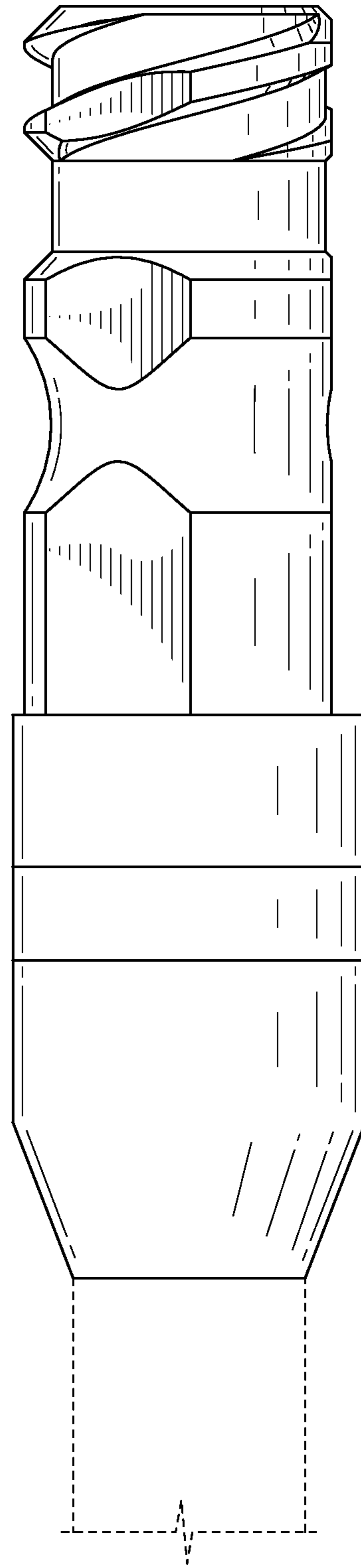


FIG. 6

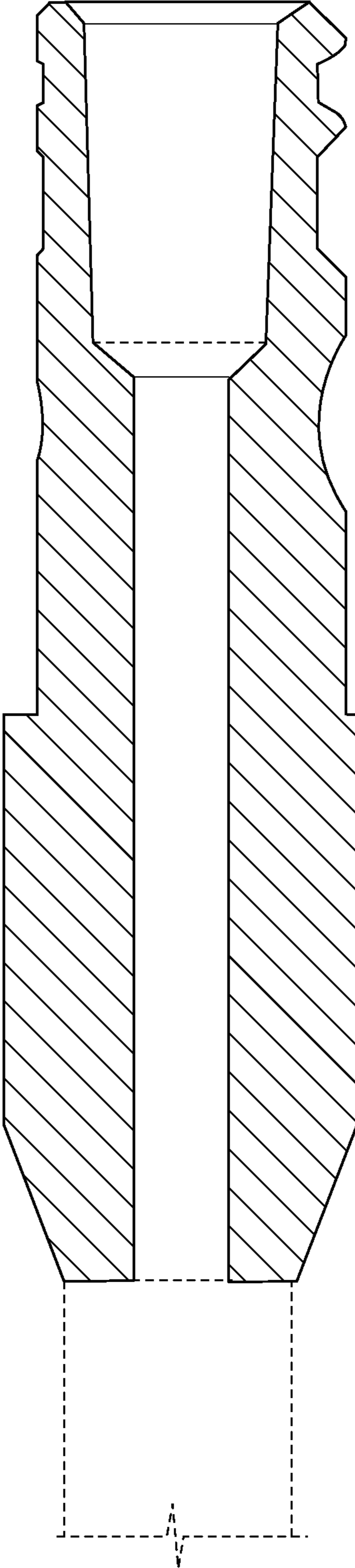


FIG. 7

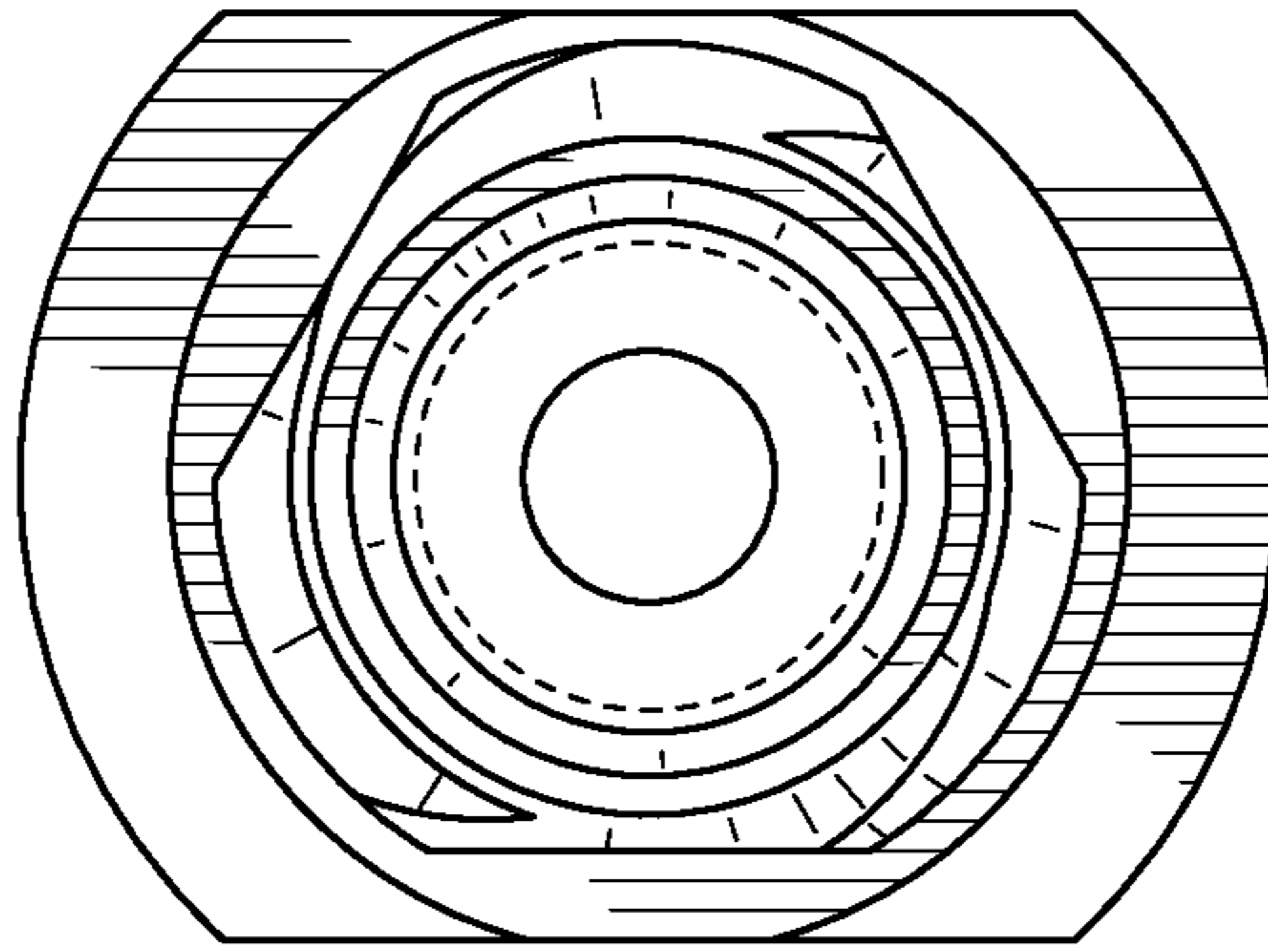


FIG. 8

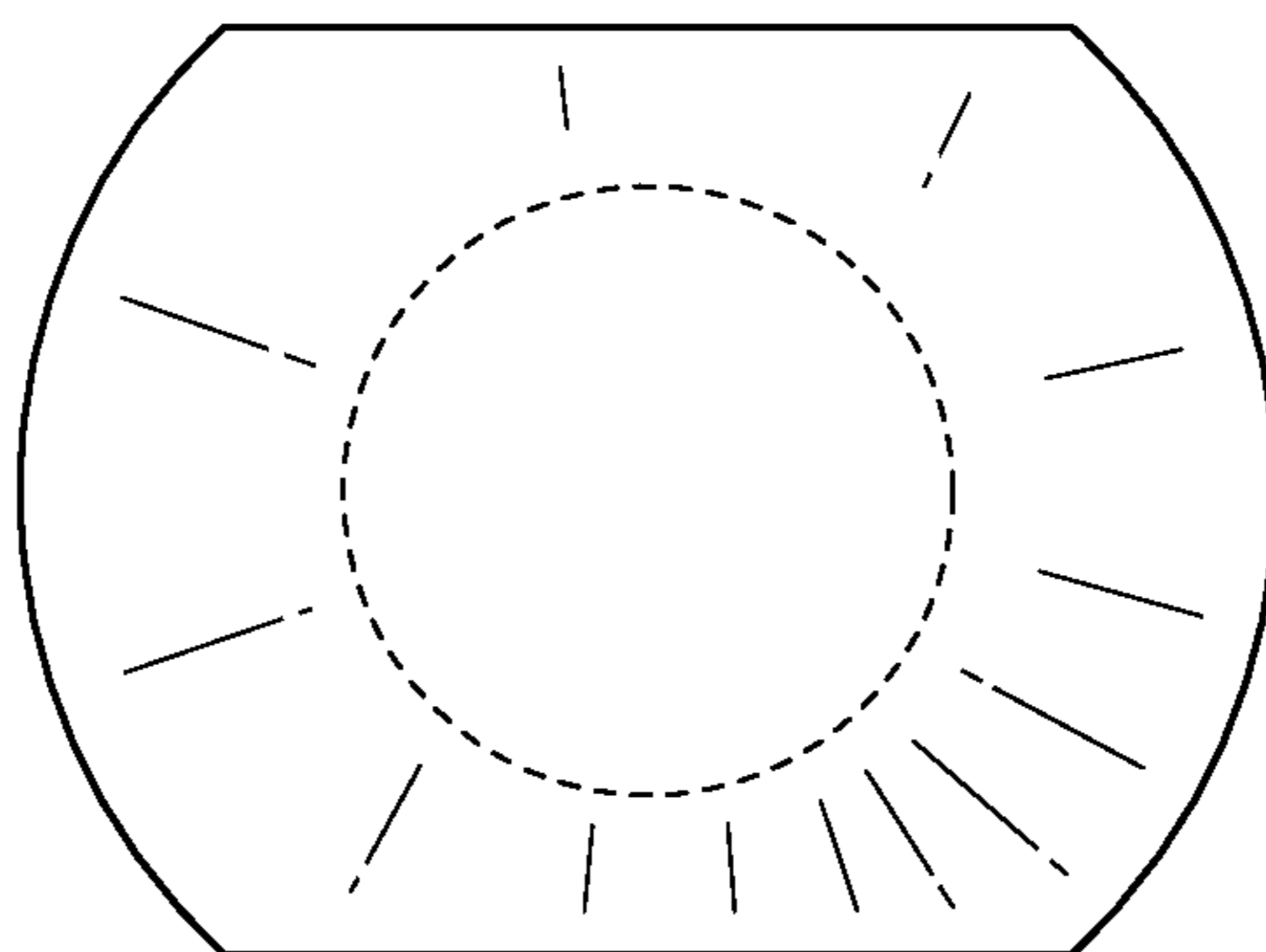


FIG. 9