US00D831456S

(12) **United States Design Patent** (10) **Patent No.: US D831,456 S**
Fukushima (45) **Date of Patent: ** Oct. 23, 2018**

(54) **DEPLOYMENT TOOL WITH CONICAL GUIDE FOR USE WITH IN-GRID POWER DISTRIBUTION SENSOR DEVICES FOR OVERHEAD POWERLINES**

(71) Applicant: **Awesense Wireless, Inc.**, Vancouver (CA)

(72) Inventor: **Keith Fukushima**, Port Coquitlam (CA)

(73) Assignee: **Awesense Wireless, Inc.**, Vancouver (CA)

(**) Term: **15 Years**

(21) Appl. No.: **29/597,417**

(22) Filed: **Mar. 16, 2017**

(51) **LOC (11) Cl.** **08-05**

(52) **U.S. Cl.**
USPC **D8/51**; D8/14

(58) **Field of Classification Search**
USPC D8/14, 51; D13/123, 199
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,193,765 A * 7/1965 Bevins G01R 1/06777 324/109
4,132,441 A * 1/1979 Watkins H01H 85/0208 294/174

(Continued)

Primary Examiner — Philip S Hyder
(74) *Attorney, Agent, or Firm* — AEON Law, PLLC; Adam L. K. Philipp; David V. H. Cohen

(57) **CLAIM**

The ornamental design for a deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view from above of a uncompressed deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines;

FIG. **2** is a perspective view from below of the uncompressed deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines;

FIG. **3** is a front view of the deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines;

FIG. **4** is a rear view of the deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines;

FIG. **5** is a side view taken from the left side of FIG. **4**;

FIG. **6** is a side view taken from the right side of FIG. **3**;

FIG. **7** is a top view taken from the uppermost side of FIG. **3**; and

FIG. **8** is a bottom view taken from the lowermost side of FIG. **3**.

FIG. **9** is a perspective view from above of a compressed deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines for powerline sensors;

FIG. **10** is a perspective view from below of the compressed deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines;

FIG. **11** is a front view of the compressed deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines;

FIG. **12** is a rear view of the compressed deployment tool with conical guide for use with in-grid power distribution sensor devices for overhead powerlines;

FIG. **13** is a side view taken from the left side of FIG. **12**;

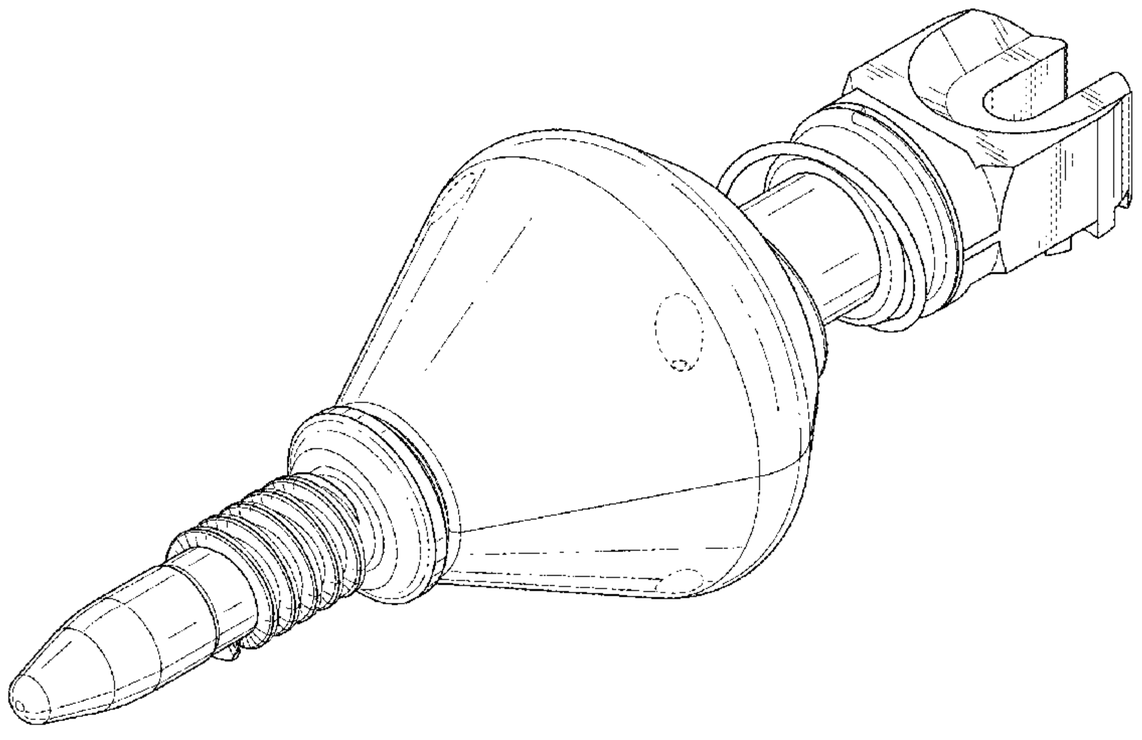
FIG. **14** is a side view taken from the right side of FIG. **11**;

FIG. **15** is a top view taken from the uppermost side of FIG. **11**; and,

FIG. **16** is a bottom view taken from the lowermost side of FIG. **11**.

The broken lines depict portions of the deployment tool with conical guide for use with in=grid power distribution sensor devices for overhead powerlines in which the design is embodied that are not considered part of the claimed design.

1 Claim, 14 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

4,670,956	A *	6/1987	Christensen	B25B 27/08 29/247
4,794,328	A *	12/1988	Fernandes	G01K 1/024 29/240
5,742,220	A *	4/1998	Scherer	H01H 85/0208 294/174
7,181,995	B2 *	2/2007	Rider	B25D 1/00 294/174

* cited by examiner

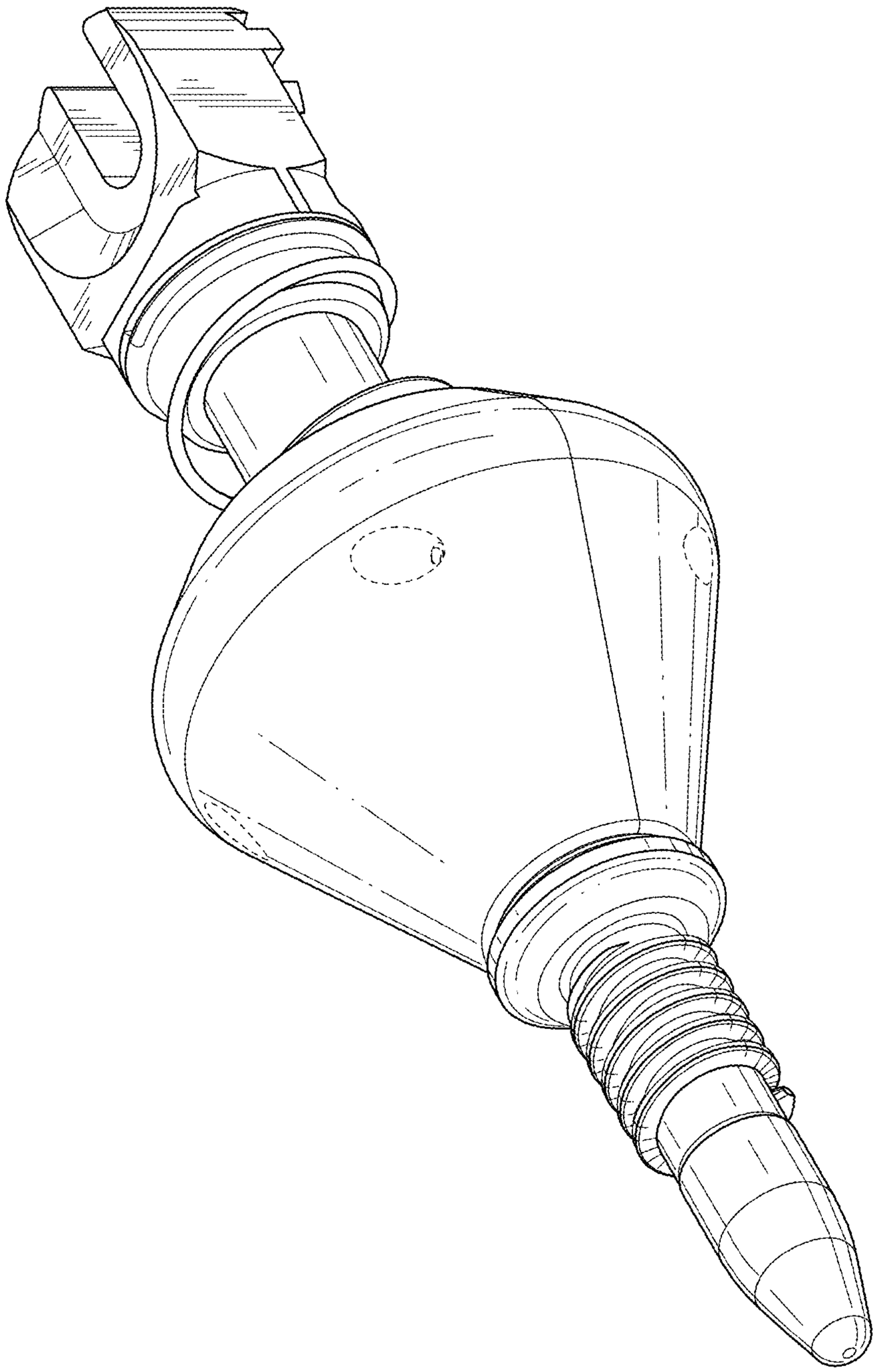


Fig. 1

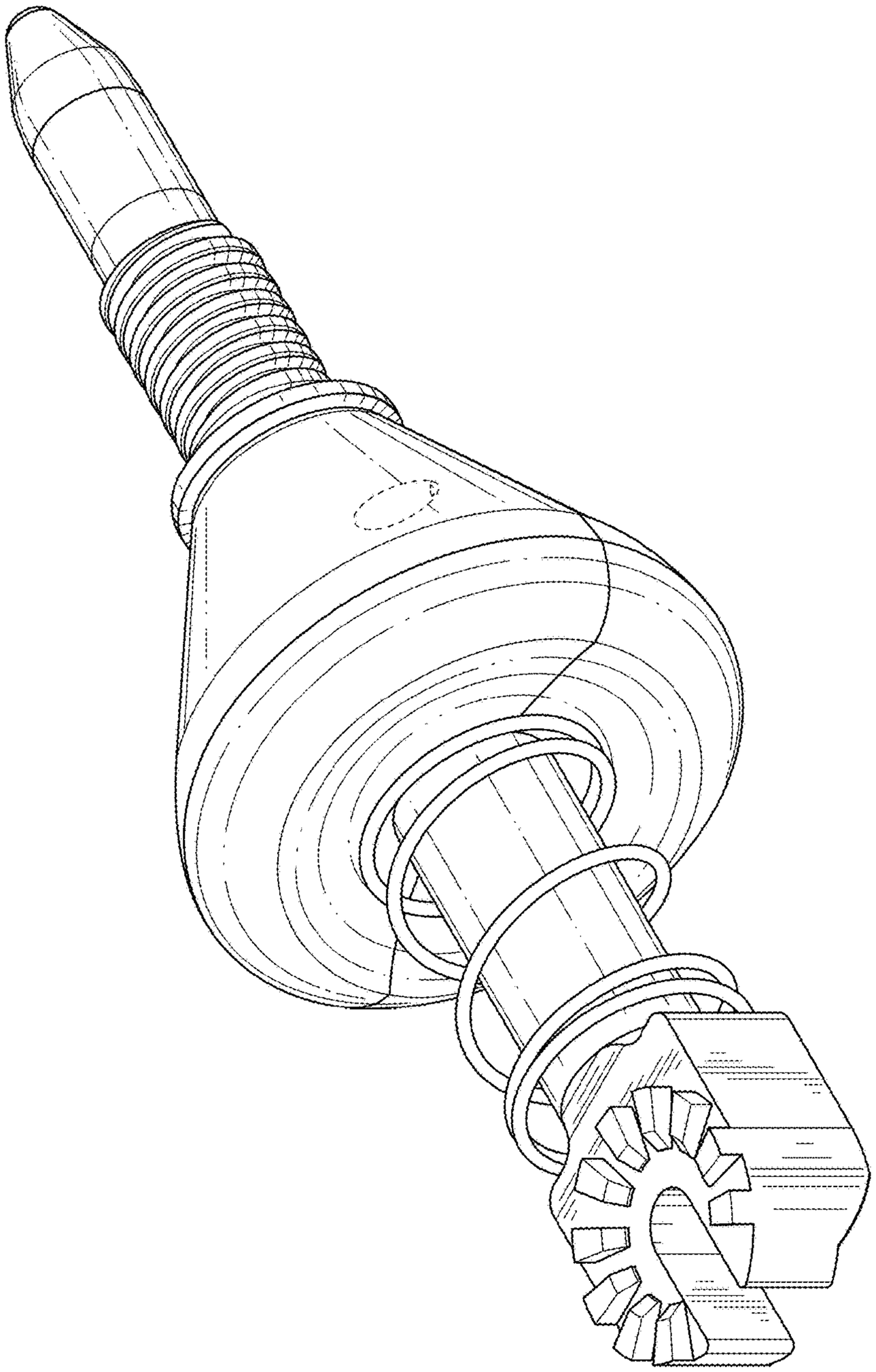


Fig. 2

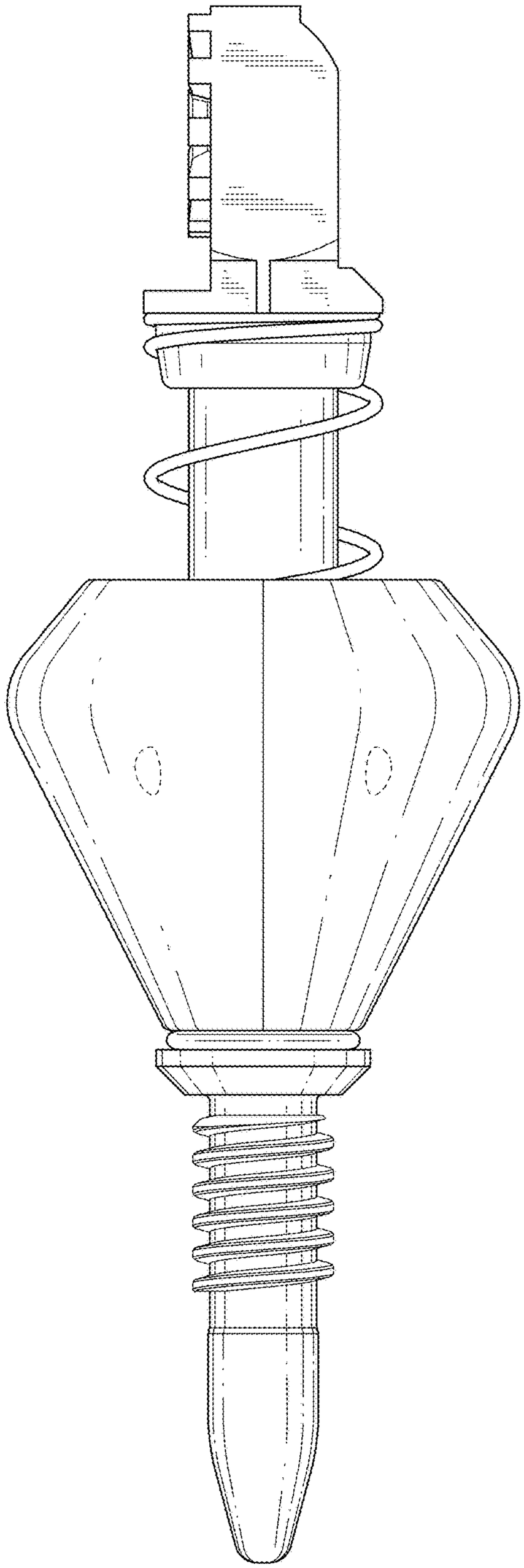


Fig. 3

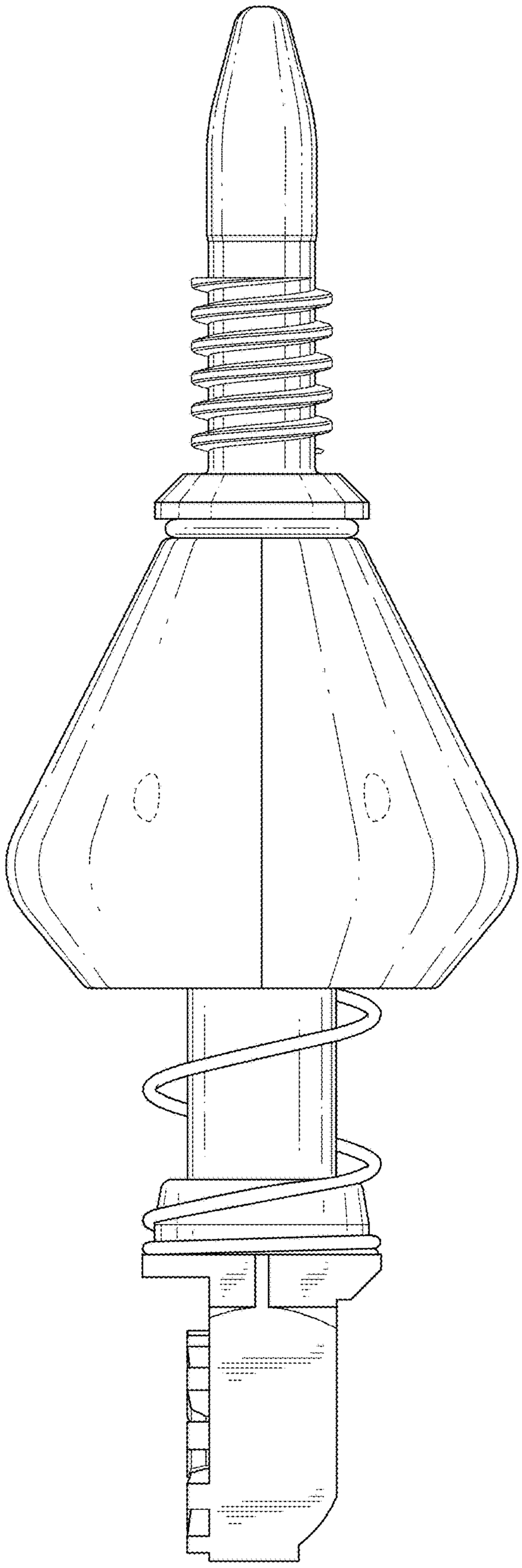


Fig. 4

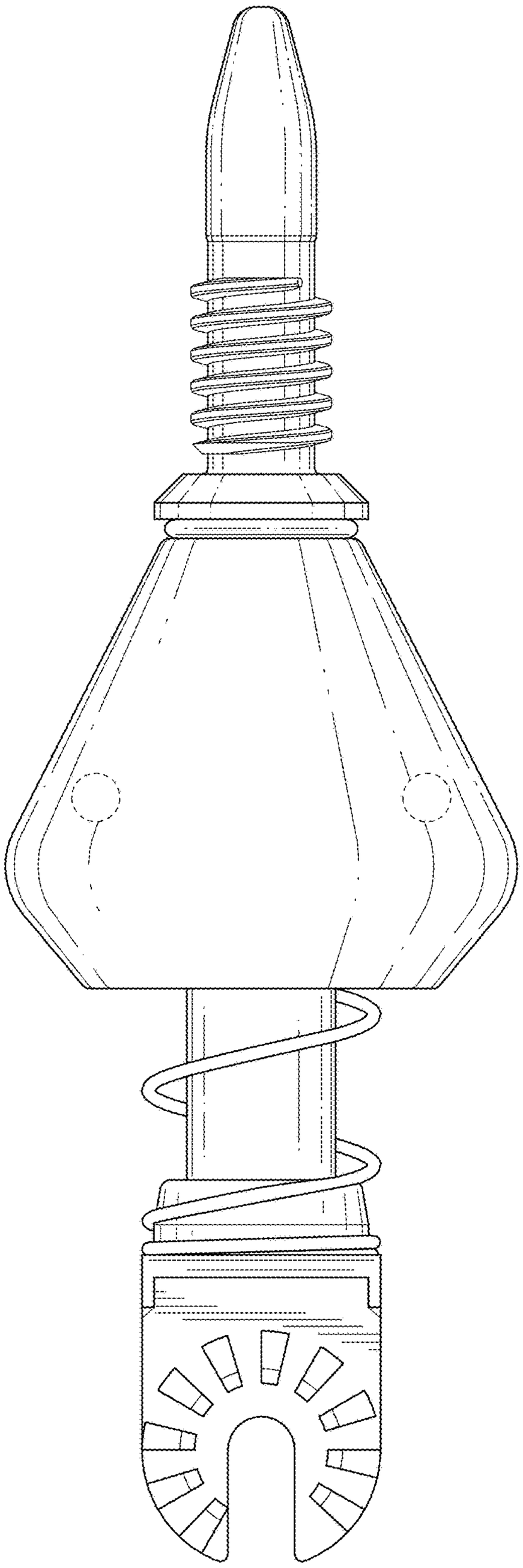


Fig. 5

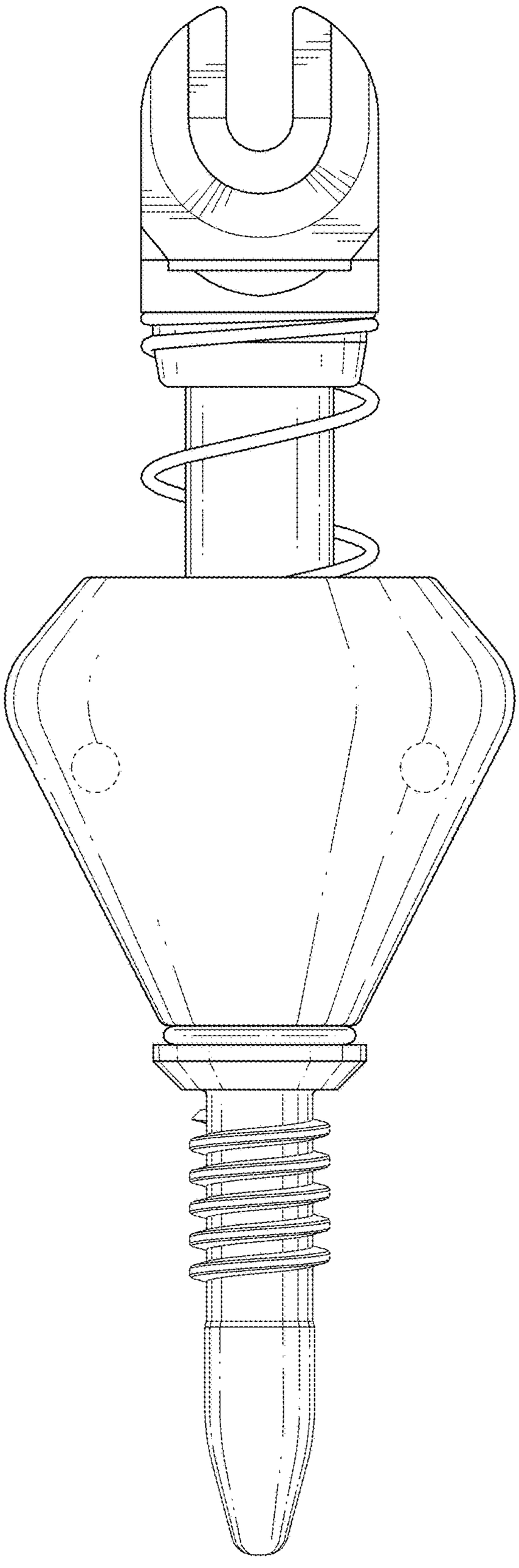


Fig. 6

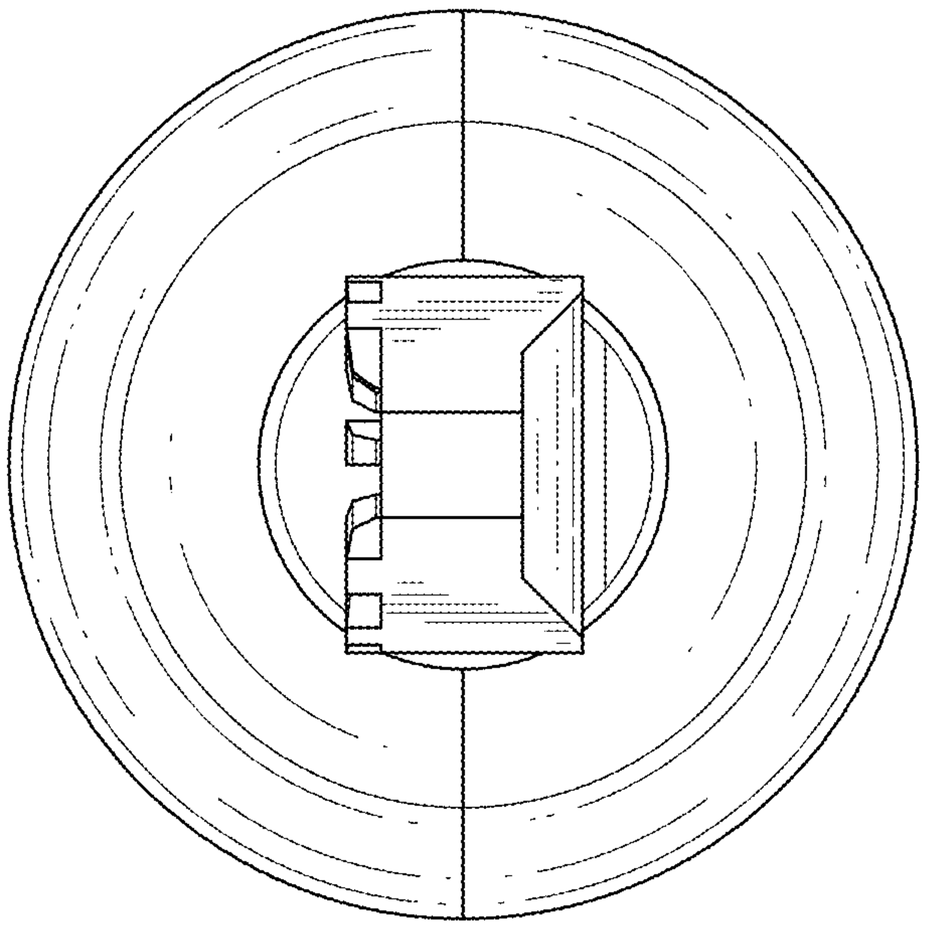


Fig. 8

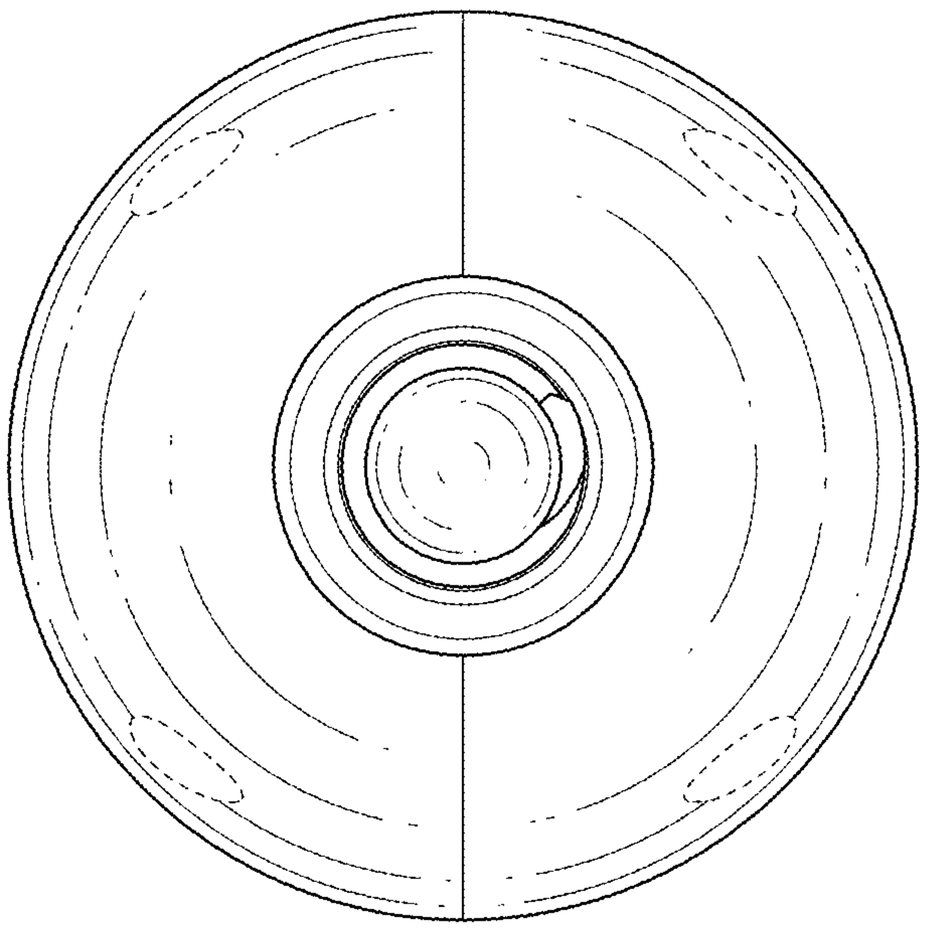


Fig. 7

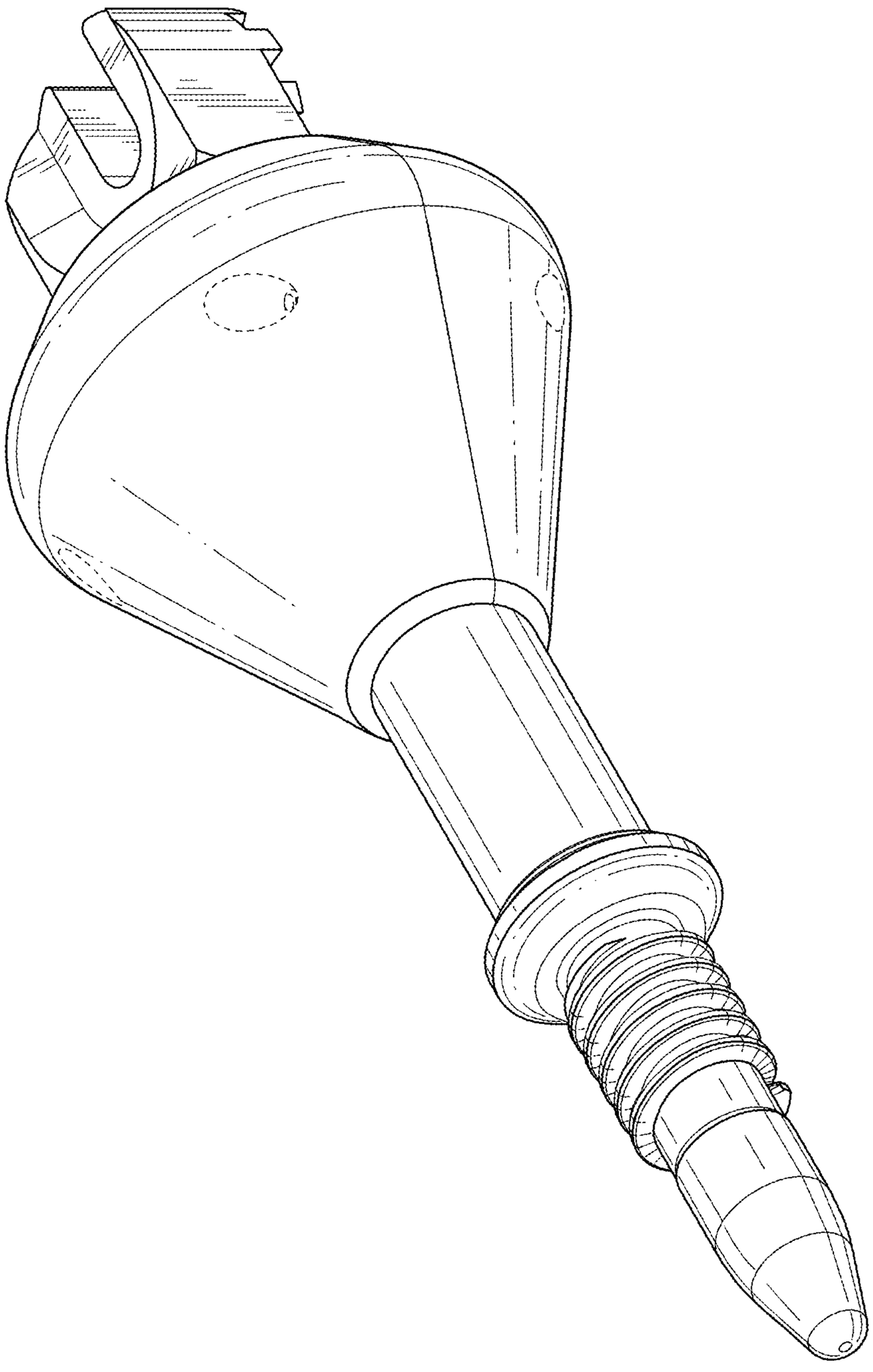


Fig. 9

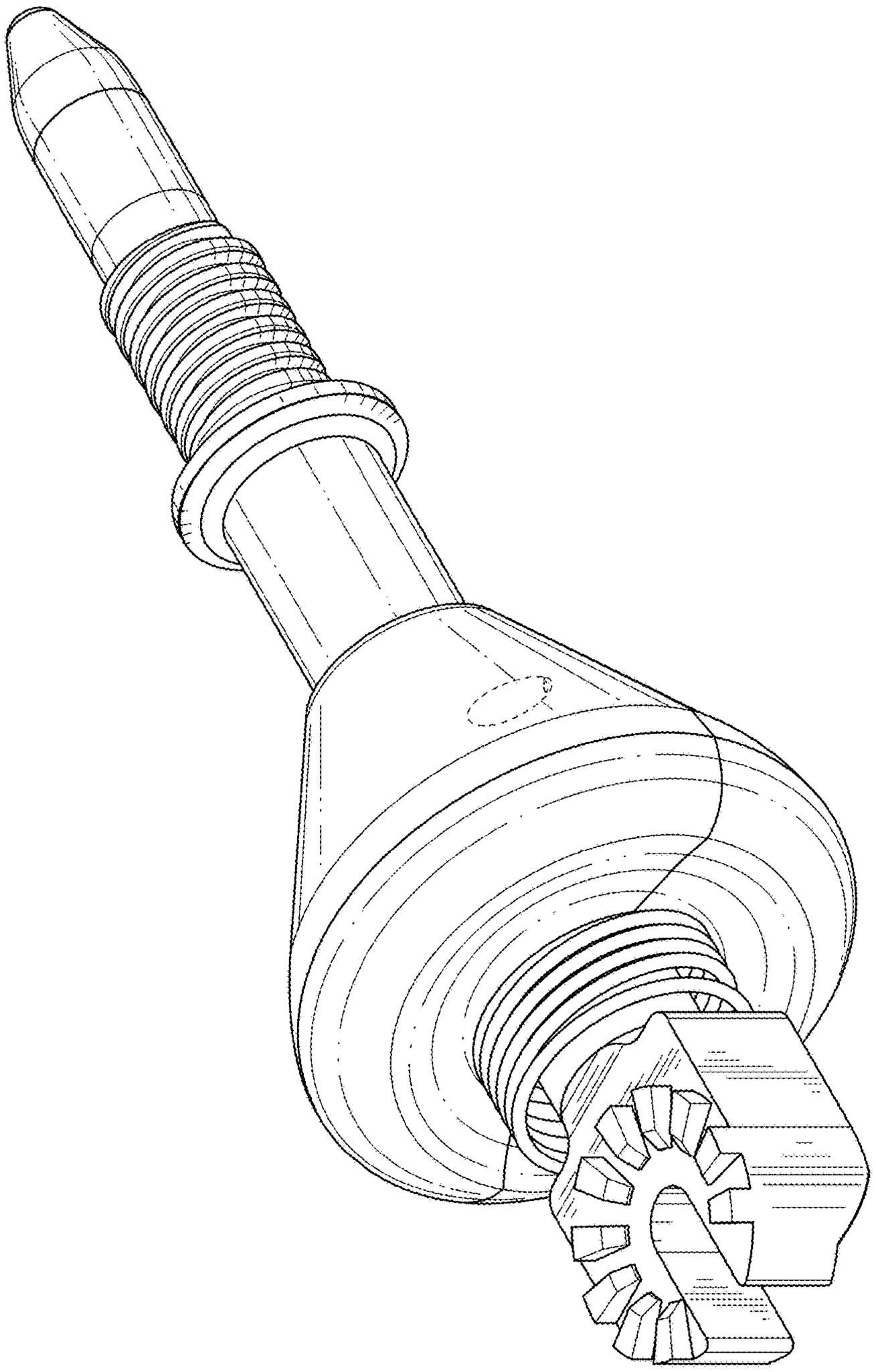


Fig. 10

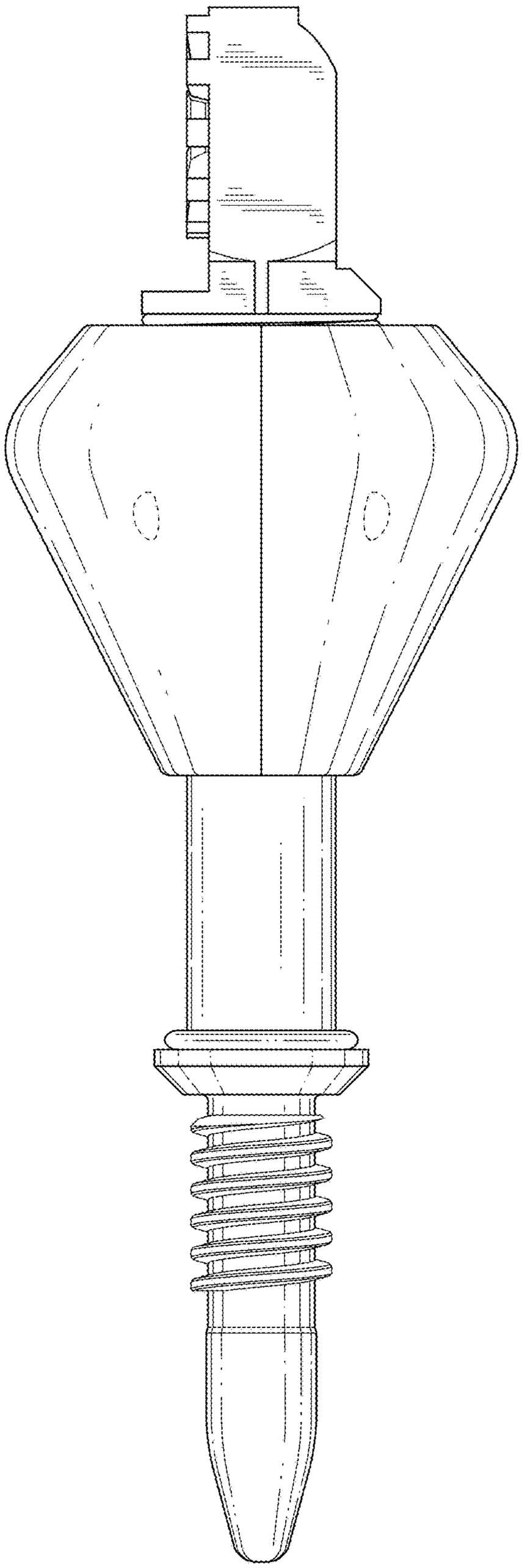


Fig. 11

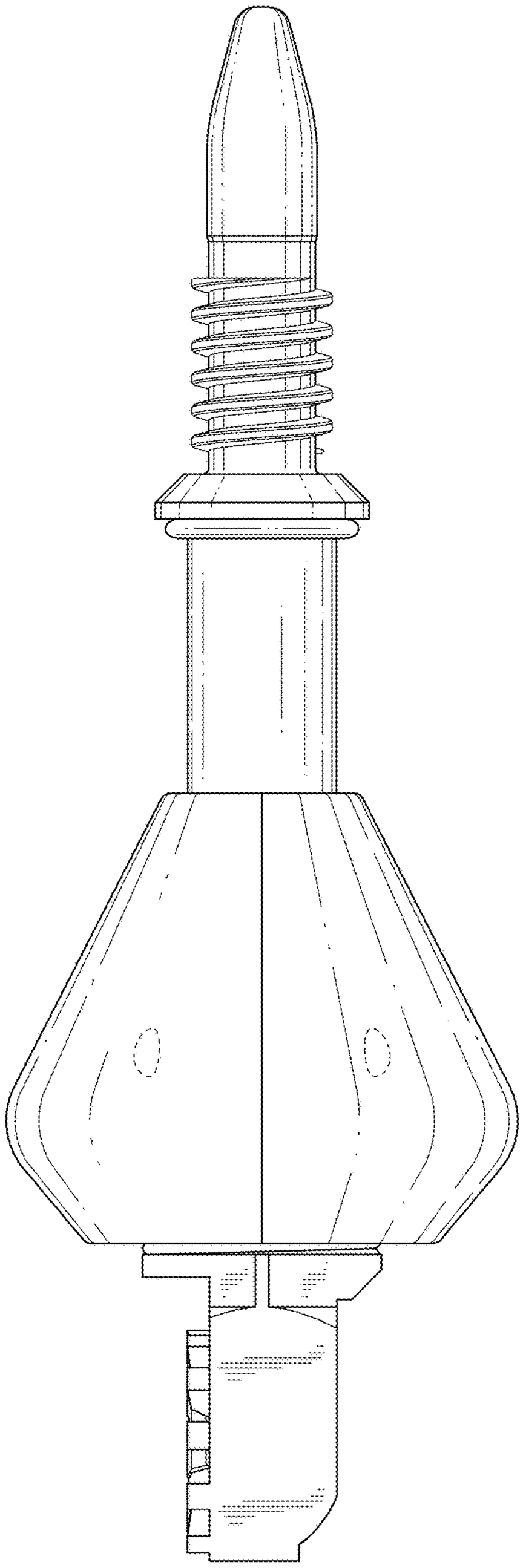


Fig. 12

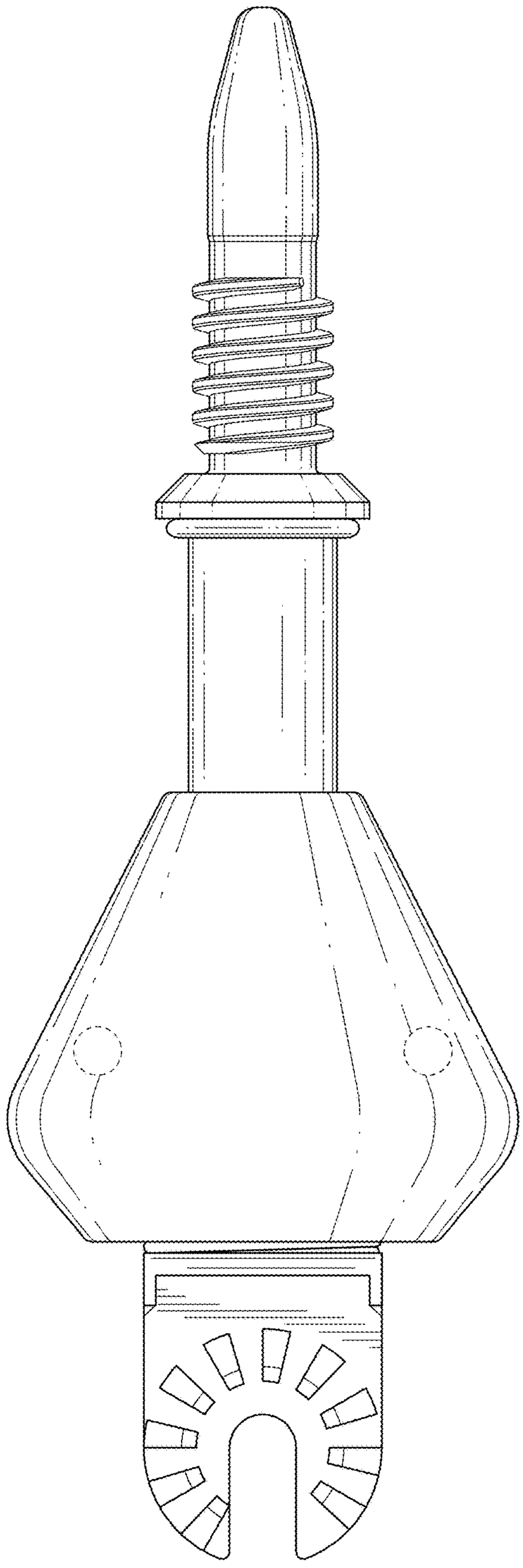


Fig. 13

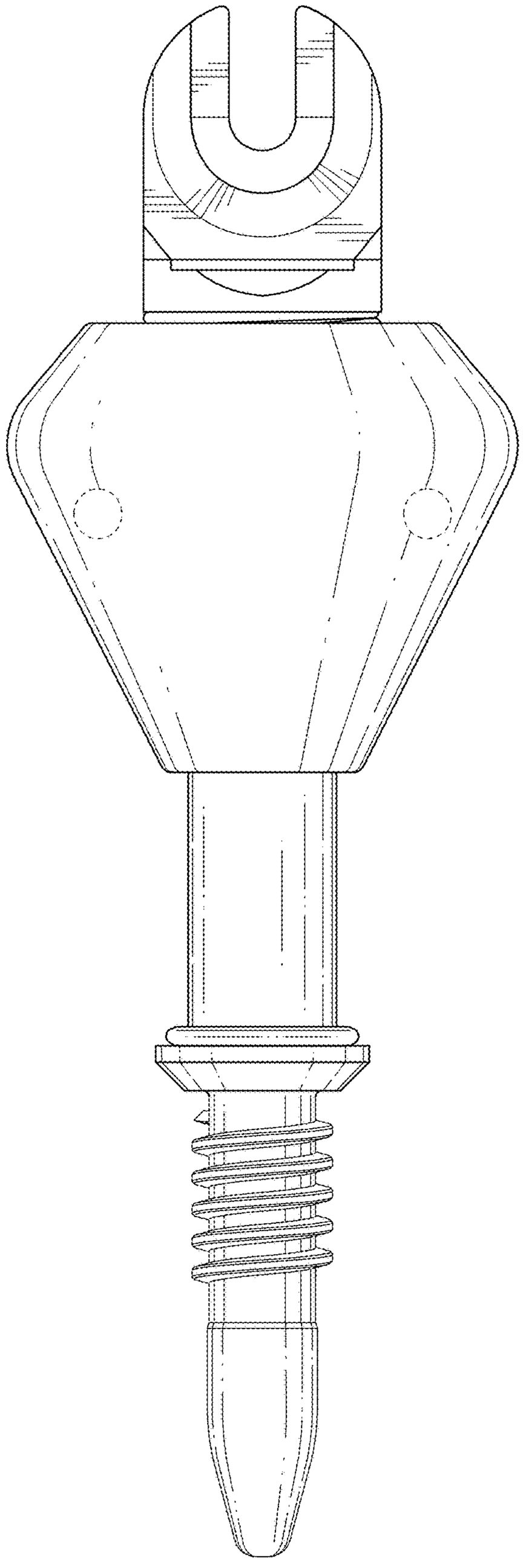


Fig. 14

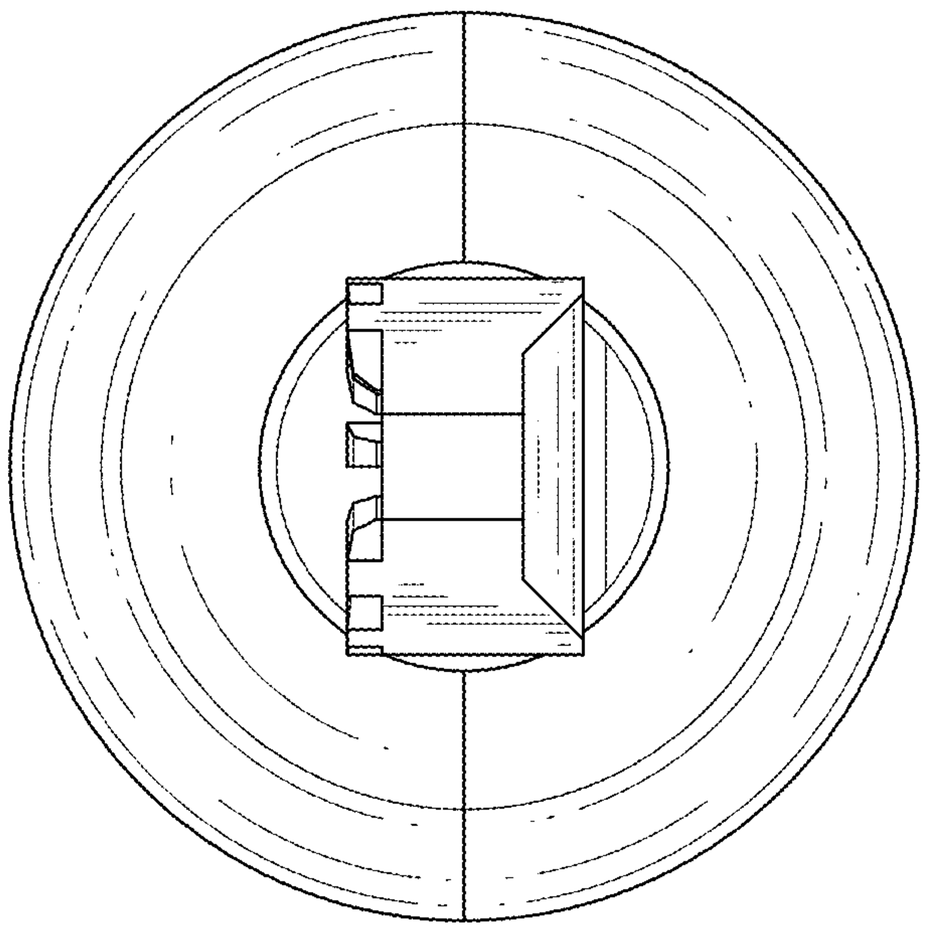


Fig. 16

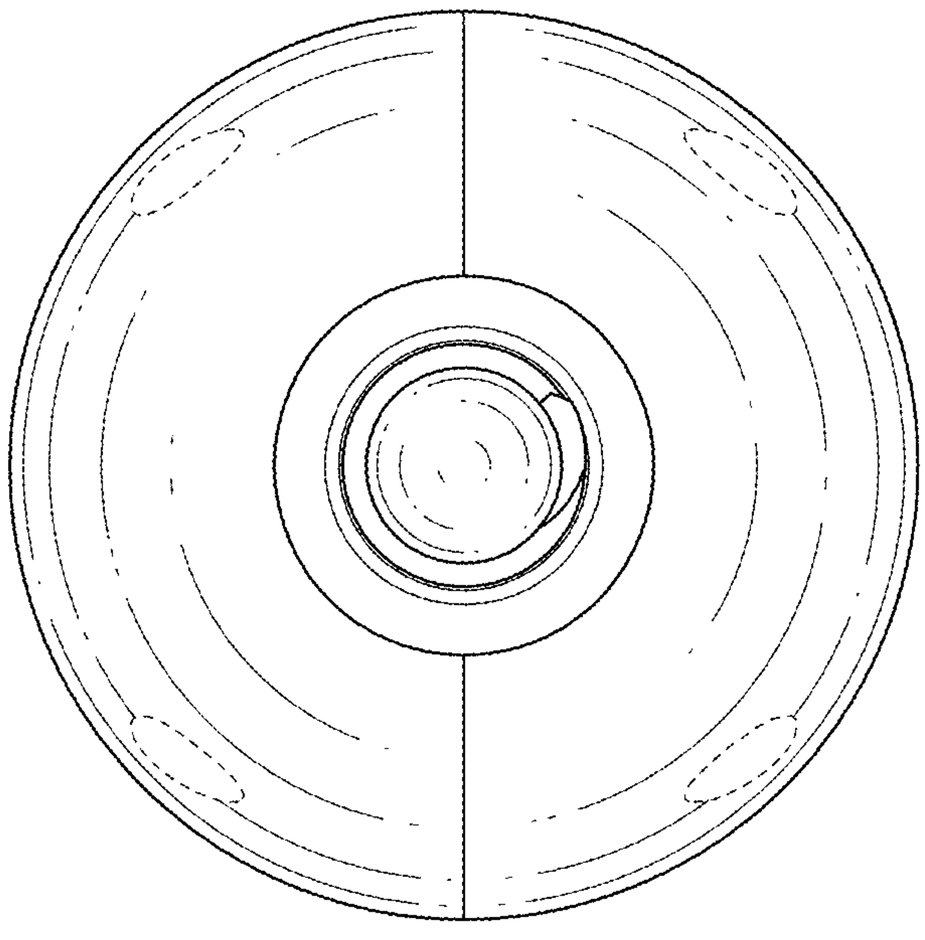


Fig. 15