



US00D777812S

(12) **United States Design Patent** (10) **Patent No.:** **US D777,812 S**  
**Namburu** (45) **Date of Patent:** **\*\* Jan. 31, 2017**

(54) **LIQUID COOLED PLASMA TORCH ELECTRODE**

(71) Applicant: **LINCOLN GLOBAL, INC.**, City of Industry, CA (US)

(72) Inventor: **Praveen K. Namburu**, Mount Pleasant, SC (US)

(73) Assignee: **LINCOLN GLOBAL, INC.**, City of Industry, CA (US)

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

(21) Appl. No.: **29/542,372**

(22) Filed: **Oct. 13, 2015**

(51) **LOC (10) Cl.** ..... **15-09**

(52) **U.S. Cl.**  
USPC ..... **D15/144**

(58) **Field of Classification Search**  
USPC ..... D15/144, 144.1, 144.2  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D231,834 S *	6/1974	Gulrich .....	D15/144
D269,519 S *	6/1983	Braun .....	D15/138
D359,058 S *	6/1995	Carkhuff .....	D15/144
D362,860 S *	10/1995	Carkhuff .....	D15/144
D365,345 S *	12/1995	Carkhuff .....	D15/144
D371,058 S *	6/1996	Walters .....	219/119
D384,682 S *	10/1997	Turner .....	D15/144
D414,788 S *	10/1999	Shintani .....	D15/144
D417,459 S *	12/1999	Shintani .....	D15/144
D446,530 S *	8/2001	Kuraoka .....	D15/144
D446,795 S *	8/2001	Shintani .....	D15/144
D451,113 S *	11/2001	Shintani .....	D15/144
6,355,901 B1 *	3/2002	Nippert .....	B23K 11/3018 219/119

6,750,419 B2 *	6/2004	Roddy .....	B23K 11/3009 219/117.1
D492,709 S *	7/2004	Horner-Richardson .....	D15/144
D499,124 S *	11/2004	Kuraoka .....	D15/144
D500,064 S *	12/2004	Kuraoka .....	D15/144
D504,142 S *	4/2005	Horner-Richardson .....	D15/144
D517,577 S *	3/2006	Conway .....	D15/144
D527,401 S *	8/2006	Mizuno .....	D15/144
D647,548 S *	10/2011	Savill, Jr. ....	D15/144
D720,784 S *	1/2015	Hassan .....	D15/144
D721,111 S *	1/2015	Hassan .....	D15/144
D744,563 S *	12/2015	Hassan .....	D15/144

\* cited by examiner

*Primary Examiner* — Patricia Palasik

(74) *Attorney, Agent, or Firm* — Perkins Coie LLP

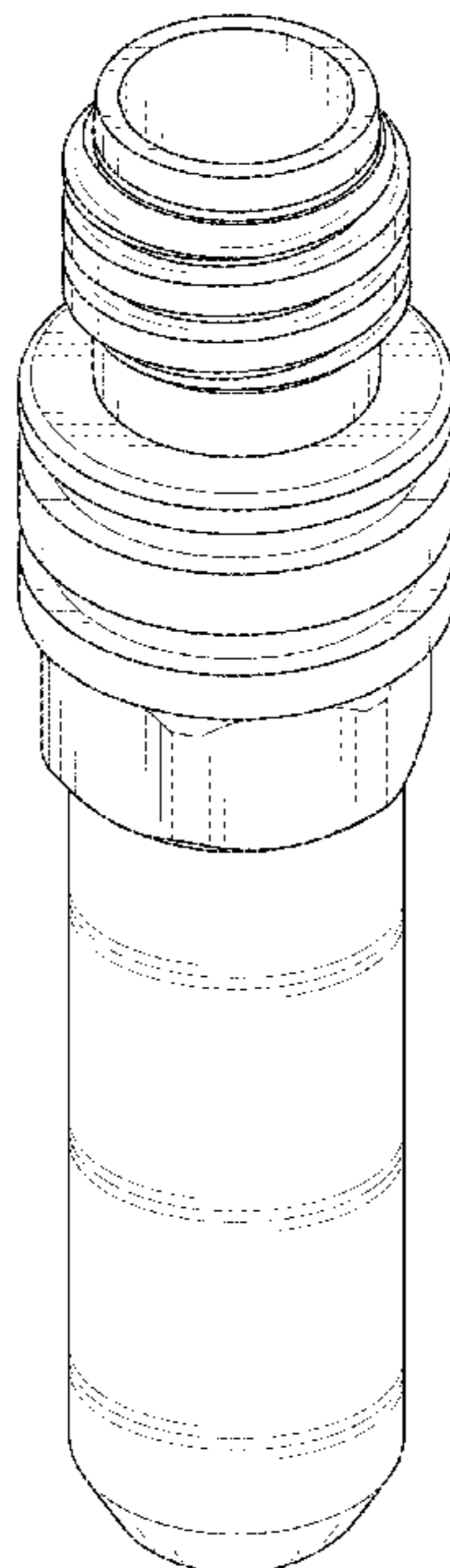
(57) **CLAIM**

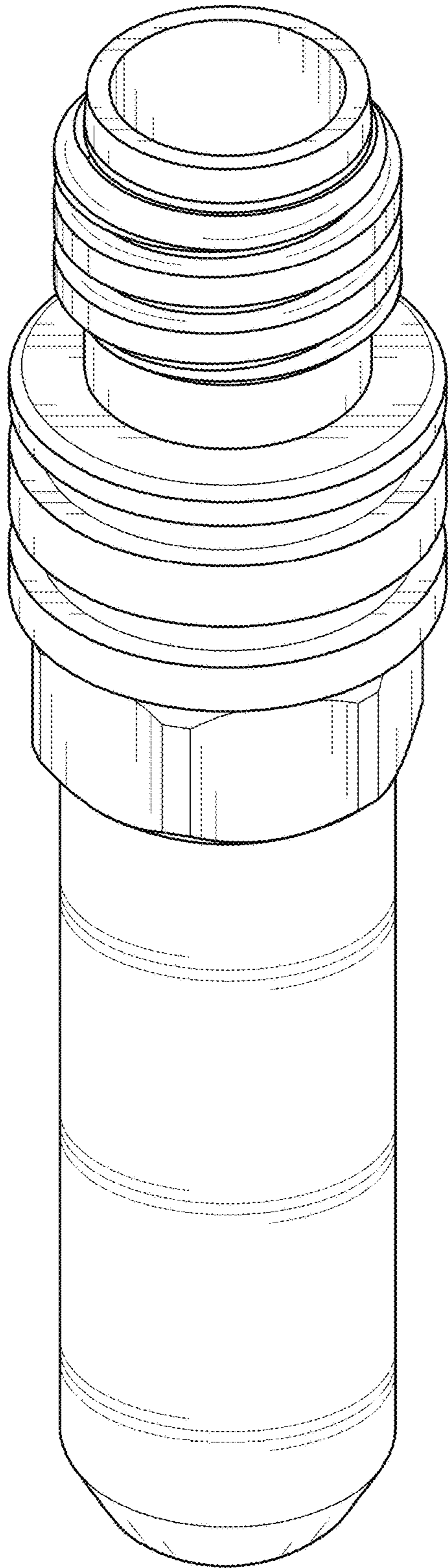
The ornamental design for a liquid cooled plasma torch electrode, as shown and described.

**DESCRIPTION**

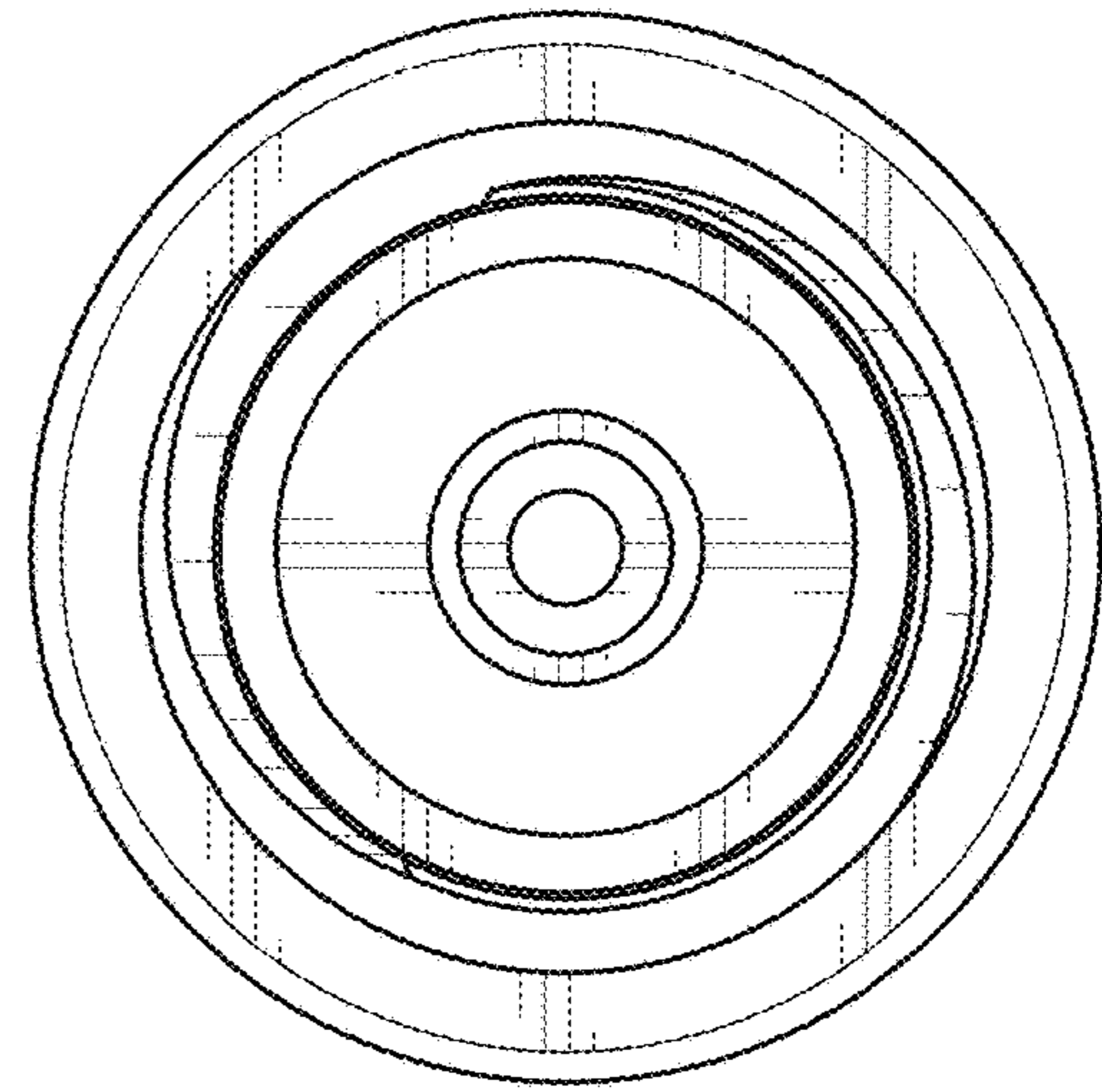
FIG. 1 is a perspective view of a design for a liquid cooled plasma torch electrode;  
FIG. 2 is a top plan view of a design for the liquid cooled plasma torch electrode;  
FIG. 3 is a bottom plan view of a design for the liquid cooled plasma torch electrode;  
FIG. 4 is a back elevational view of a design for the liquid cooled plasma torch electrode;  
FIG. 5 is a front elevational view of a design for the liquid cooled plasma torch electrode;  
FIG. 6 is a right side elevational view of a design for the liquid cooled plasma torch electrode; and,  
FIG. 7 is a left side elevational view of a design for the liquid cooled plasma torch electrode.

**1 Claim, 3 Drawing Sheets**

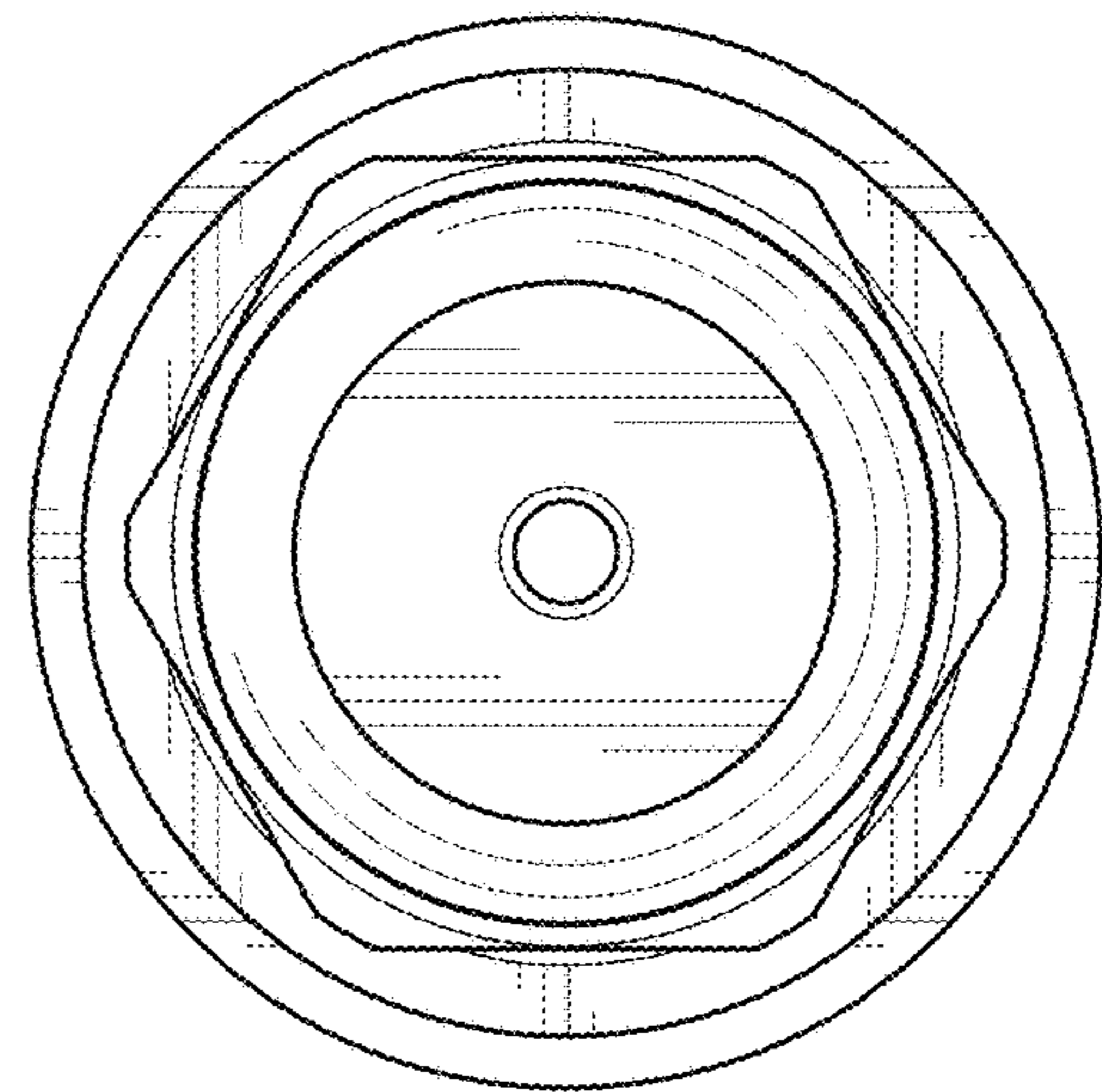




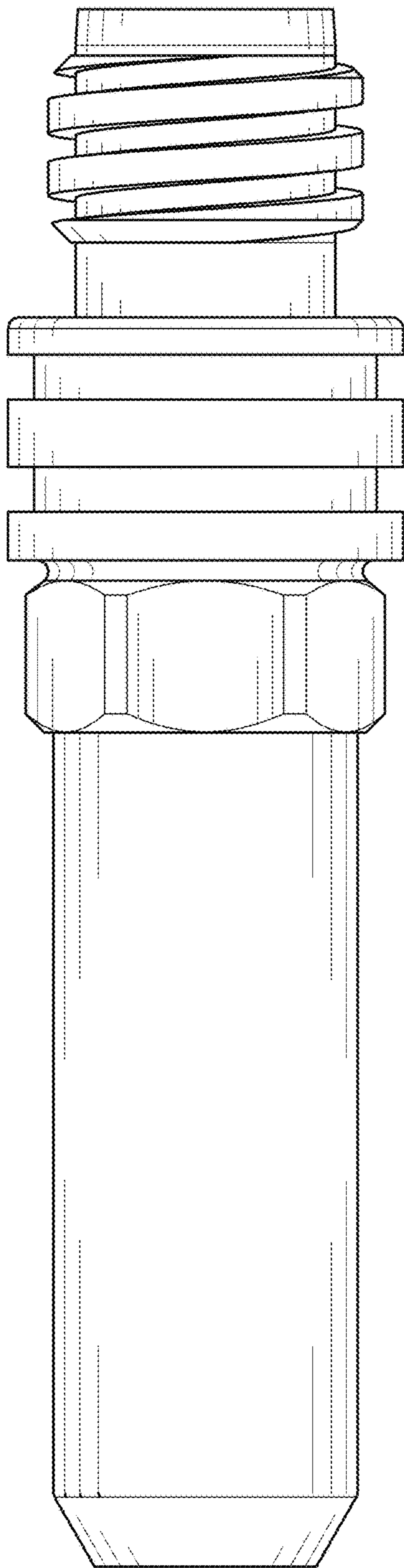
**FIG. 1**



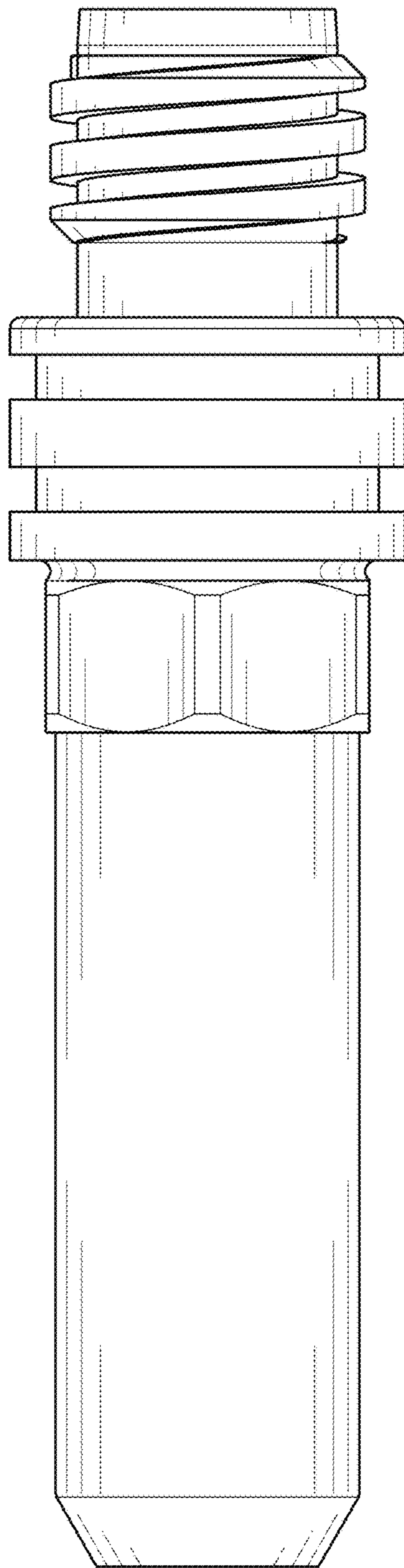
**FIG. 2**



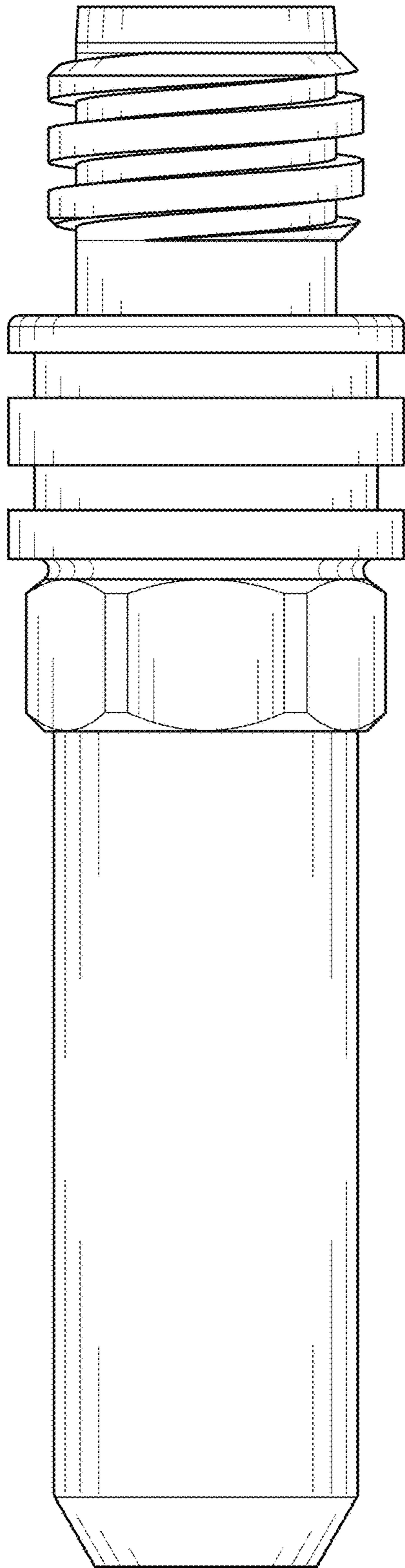
**FIG. 3**



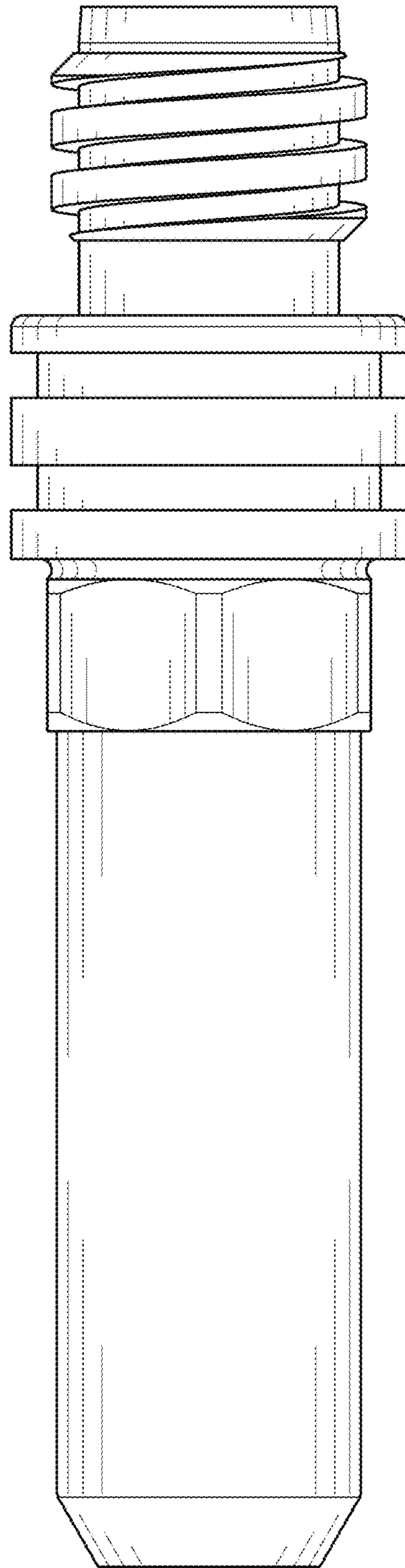
**FIG. 4**



**FIG. 5**



**FIG. 6**



**FIG. 7**