



US00D983056S

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

(10) **Patent No.:** **US D983,056 S**
(45) **Date of Patent:** **** Apr. 11, 2023**

(54) **PROBE PIN**

(71) Applicant: **GENED CO., LTD.**, Cheonan-si (KR)

(72) Inventors: **Byung Sung Lee**, Pyeongtaek-si (KR);
Young Jin Choi, Cheongju-si (KR)

(73) Assignee: **GENED CO., LTD.**, Cheonan-si (KR)

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

(21) Appl. No.: **29/736,792**

(22) Filed: **Jun. 3, 2020**

(30) **Foreign Application Priority Data**

Dec. 13, 2019 (KR) 30-2019-0060592

(51) **LOC (14) Cl.** **10-04**

(52) **U.S. Cl.**
USPC **D10/78**

(58) **Field of Classification Search**
USPC D4/101, 109; D19/115, 102; D13/182,
D13/129, 199, 184; D24/215, 108, 224,
D24/169; D10/81; D8/31, 107, 80;
D26/46, 37

CPC G01R 1/0675; G01R 1/07357

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D251,954 S *	5/1979	Raffler	D4/138
D291,862 S *	9/1987	Kolonia	D8/107
D352,010 S *	11/1994	Curbbun	D10/101
D352,998 S *	11/1994	Hanifl	D24/129
D370,276 S *	5/1996	Davis	D26/37
D404,281 S *	1/1999	Milbury	D8/107
D404,632 S *	1/1999	Reynolds	D8/107
D420,386 S *	2/2000	Clarke	D19/115
D432,890 S *	10/2000	Webb	D8/107
D452,024 S *	12/2001	Sharrah	D26/49
D485,483 S *	1/2004	Heathcock	D8/107

D521,164 S *	5/2006	Sharrah	D26/37
D544,803 S *	6/2007	Campbell	D10/96
D572,673 S *	7/2008	Kuriyama	D13/199
D582,242 S *	12/2008	Bryan	D8/107
D617,160 S *	6/2010	Spiller	D8/107
D633,362 S *	3/2011	Ayala	D8/107
D644,907 S *	9/2011	Blanchard	D8/107
D644,908 S *	9/2011	Blanchard	D8/107
D653,931 S *	2/2012	Blanchard	D8/107
D699,607 S *	2/2014	Nakamura	D10/80
D702,654 S *	4/2014	Lee	D13/182

(Continued)

Primary Examiner — George D. Kirschbaum

Assistant Examiner — Antoinette Martine Suiter

(74) *Attorney, Agent, or Firm* — United One Law Group
LLC; Kongsik Kim; Jongwoo Peck

(57) **CLAIM**

The ornamental design for a probe pin, as shown and described.

DESCRIPTION

FIG. 1 is a front-right side-top perspective view depicting a probe pin according to the present invention.

FIG. 2 is a front view of the probe pin of FIG. 1.

FIG. 3 is a rear view of the probe pin of FIG. 1.

FIG. 4 is an enlarged left side view of the probe pin of FIG. 1.

FIG. 5 is an enlarged right side view of the probe pin of FIG. 1.

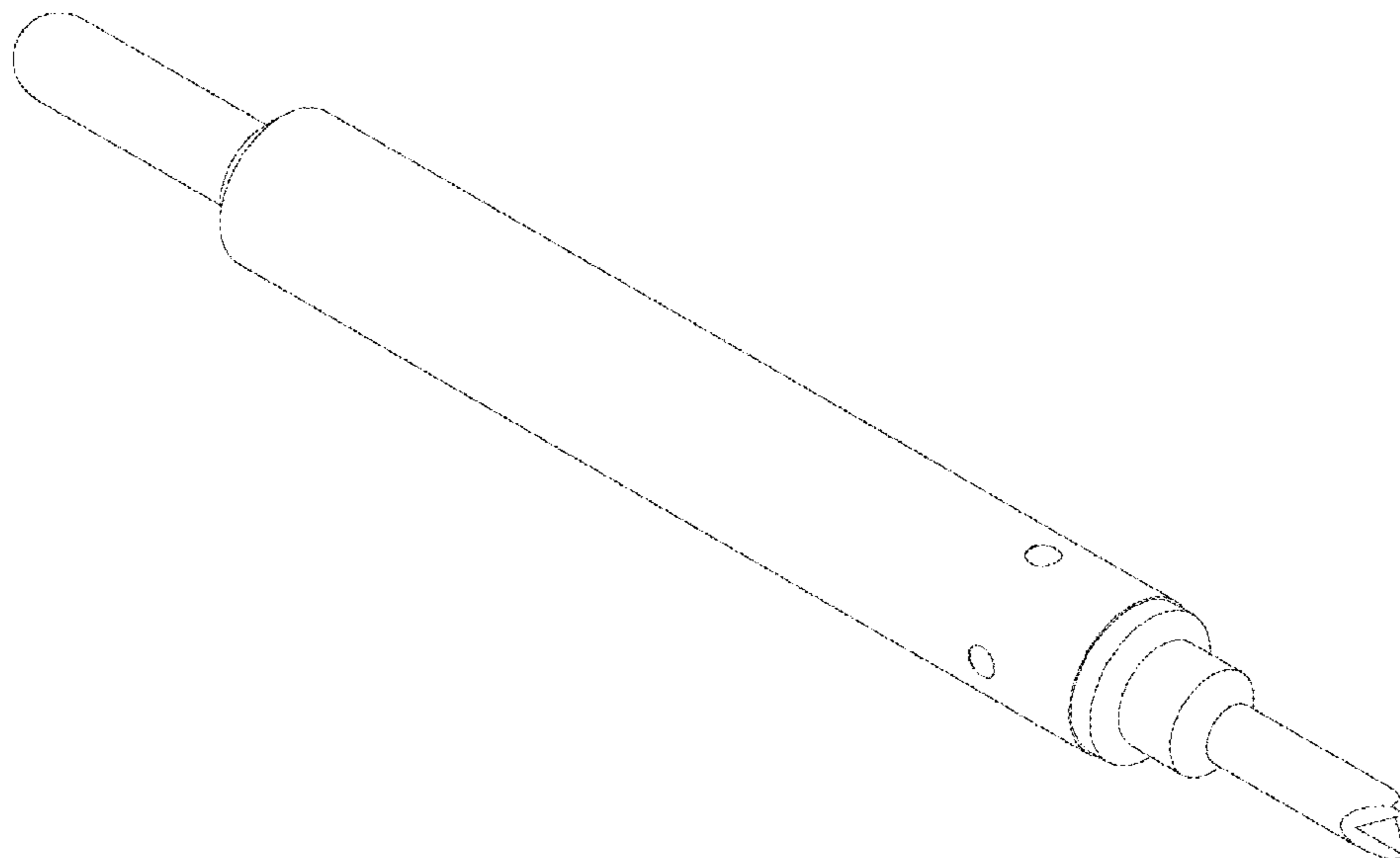
FIG. 6 is a top view of the probe pin of FIG. 1; and,

FIG. 7 is a bottom view of the probe pin of FIG. 1.

The broken lines depict portions of the article that form no part of the claimed design.

The probe pin according to the present invention is made of metal materials. The probe pin according to the present invention is used in testing electrical properties of a substrate or semiconductor used in information technology (IT) fields.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D750,990 S *	3/2016	Ettlin	D24/223
D755,655 S *	5/2016	Scott	D10/81
D765,245 S *	8/2016	Kamal	D24/141
D801,747 S *	11/2017	Hanneson	D28/7
D816,228 S *	4/2018	Evans	D24/169
D903,121 S *	11/2020	Chan	D24/169
D910,854 S *	2/2021	Cise	D24/169
D947,913 S *	4/2022	Patil	D13/199
2016/0013365 A1 *	1/2016	Chun	H01L 33/007 438/34

* cited by examiner

FIG. 1

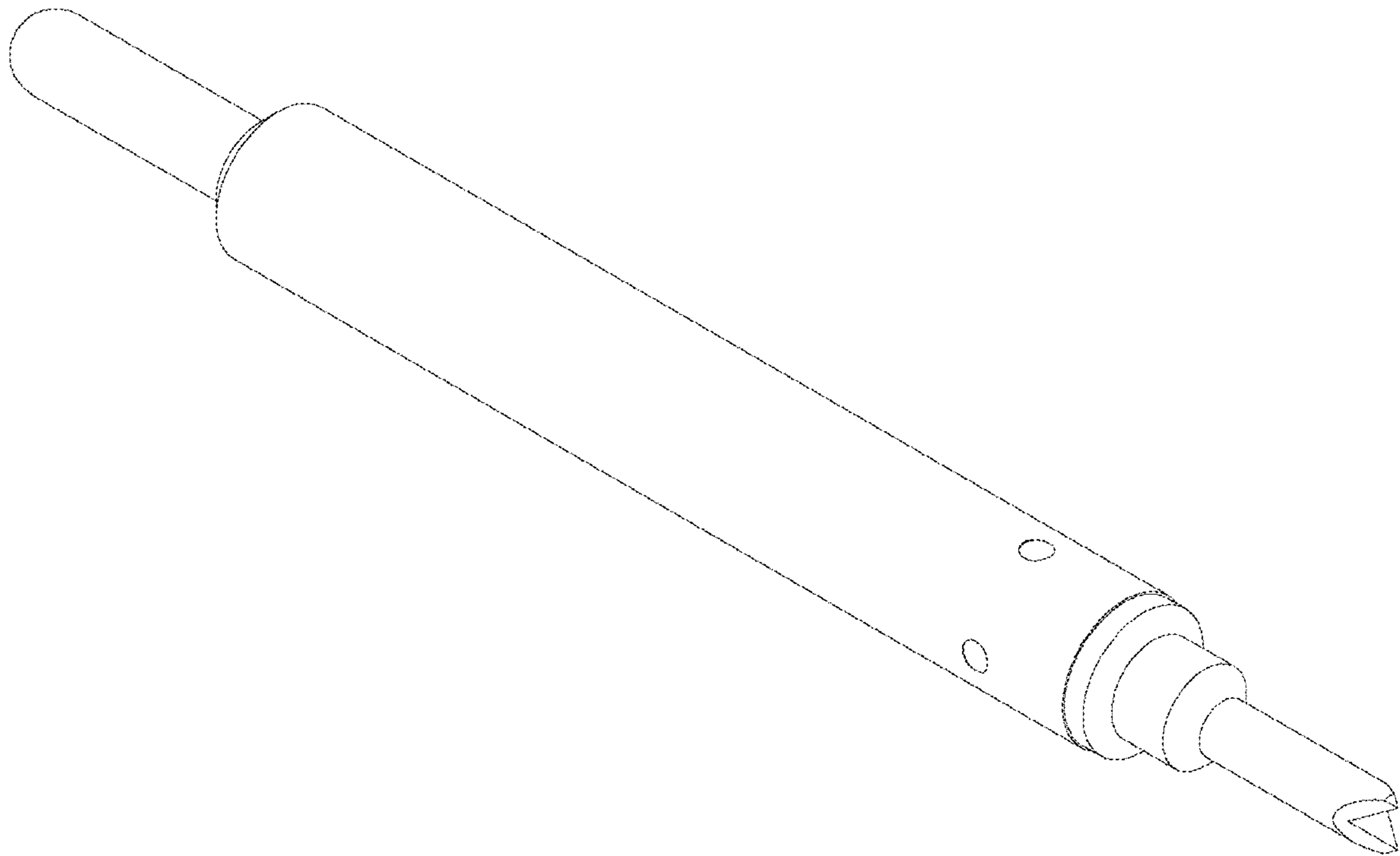


FIG. 2

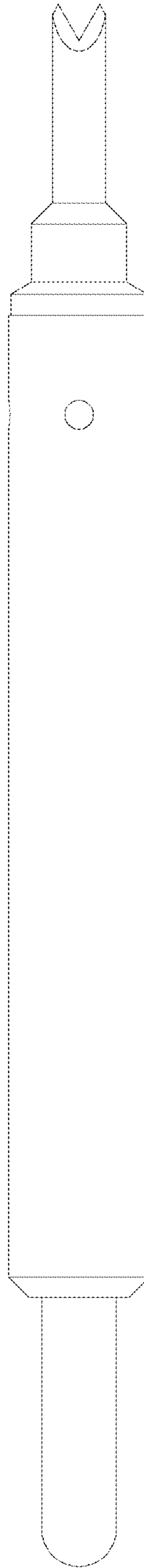


FIG. 3

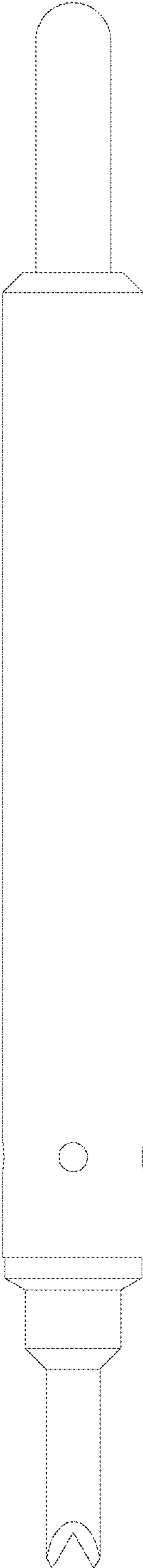


FIG. 4

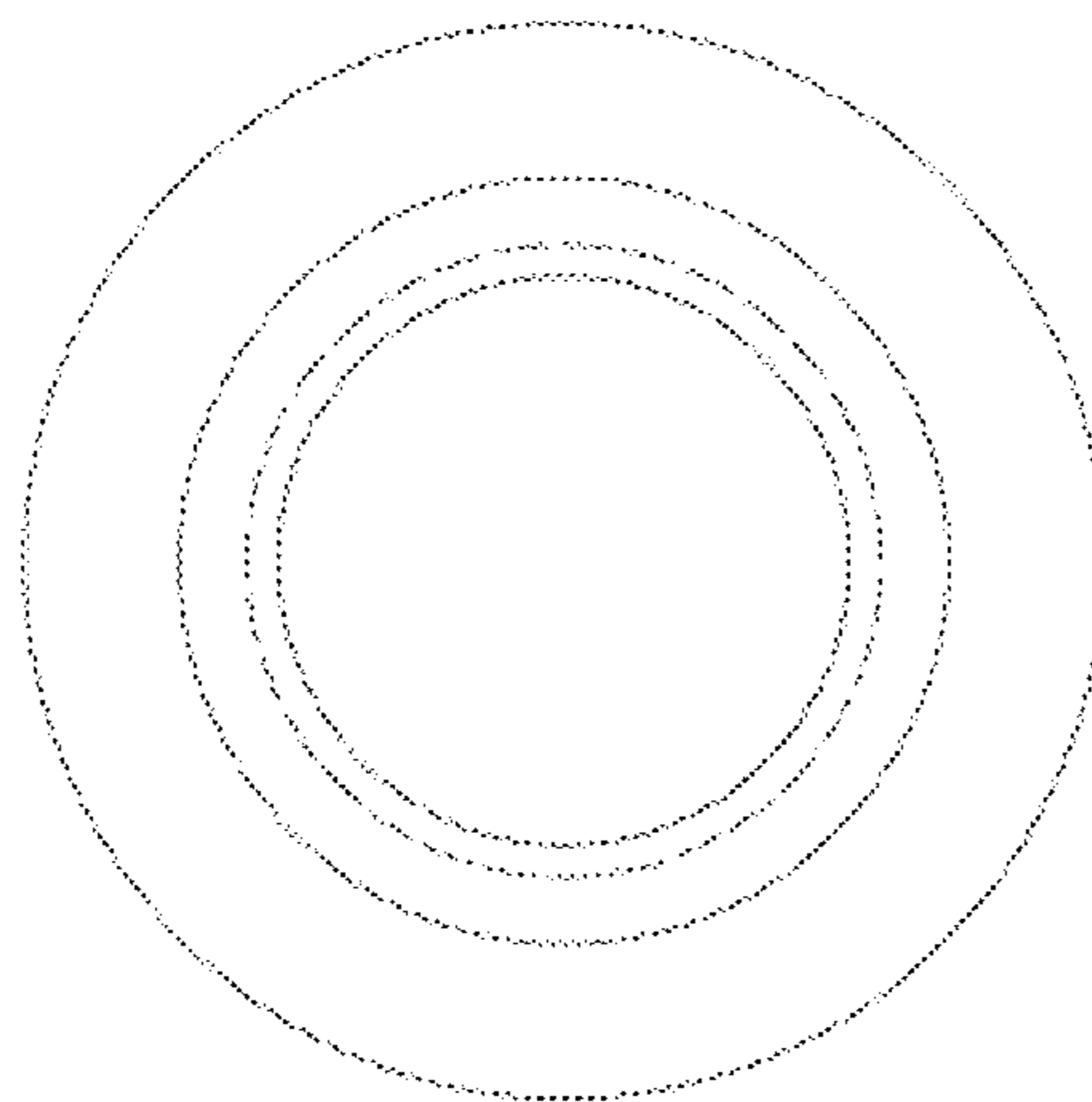


FIG. 5

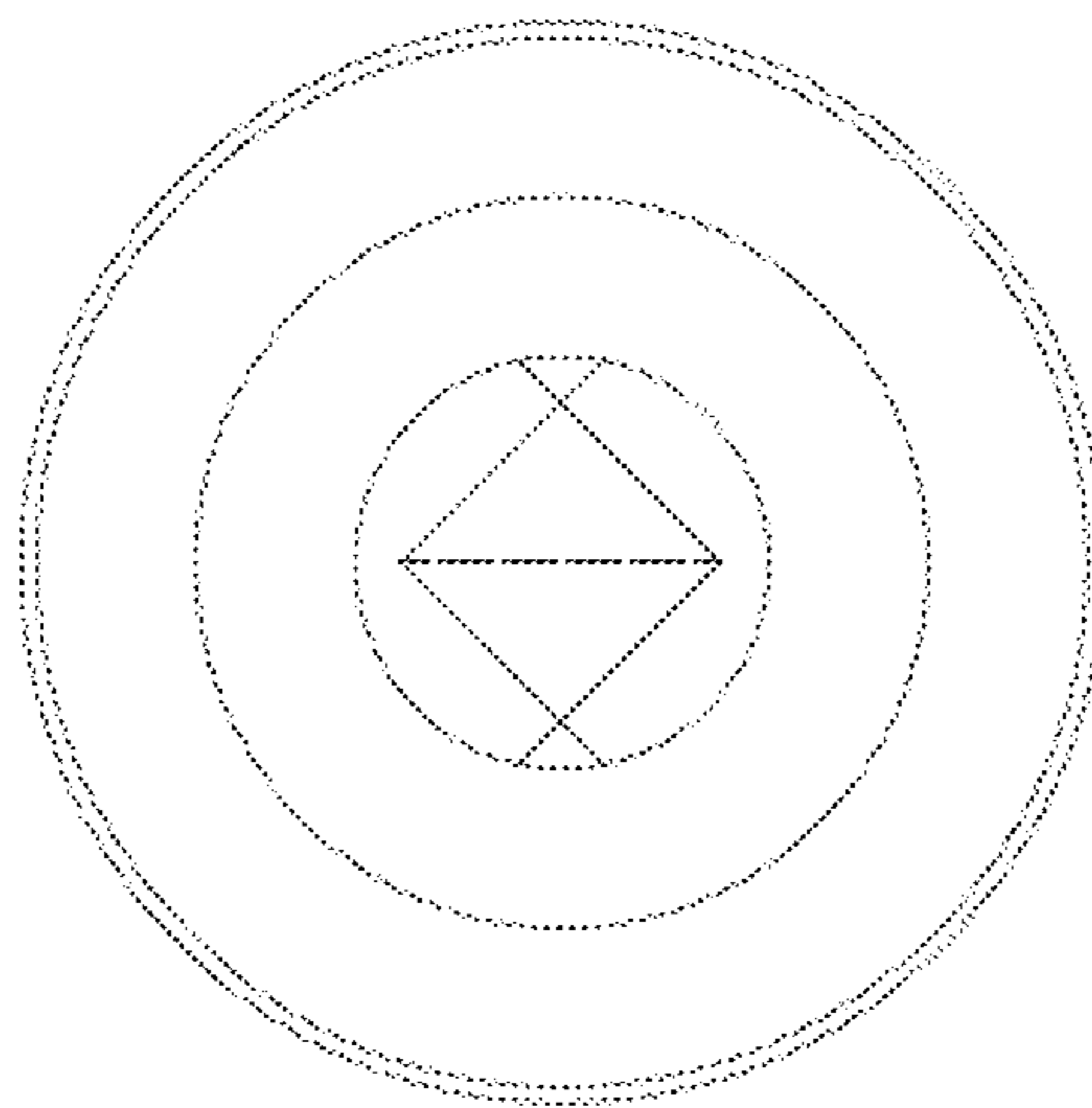


FIG. 6

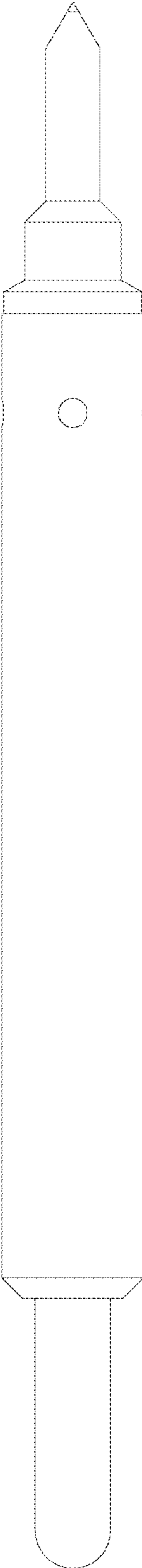


FIG. 7

