



US00D847234S

(12) **United States Design Patent** (10) **Patent No.:** **US D847,234 S**
Gou (45) **Date of Patent:** **** Apr. 30, 2019**

(54) **SOLDERING IRON**

(71) Applicant: **Guangzhou Yihua Electronic Equipment Co., Ltd.**, Guangzhou, Guangdong (CN)

(72) Inventor: **Mingkang Gou**, Guangdong (CN)

(73) Assignee: **GUANGZHOU YIHUA ELECTRONIC EQUIPMENT CO., LTD.**, Guangzhou, Guangdong (CN)

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

(21) Appl. No.: **29/606,256**

(22) Filed: **Jun. 2, 2017**

(30) **Foreign Application Priority Data**
 Dec. 8, 2016 (EP) 003507268-0014

(51) **LOC (11) Cl.** **15-03**

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

(58) **Field of Classification Search**
 USPC D15/21, 138, 139, 144; D8/1, 3, 8, 98
 CPC B23K 26/032; B23K 11/0026; B23K 11/062; B23K 11/066; B23K 11/0873; B23K 11/0876; B23K 11/115; B23K 11/24; B23K 11/248; B23K 11/252; B23K 11/257; B23K 11/3018; B23K 11/3054; B23K 11/36; B23K 15/0013; B23K 15/02; B23K 15/08; B23K 15/085; B23K 1/0014; B23K 1/0018; B23K 1/0056; B23K 20/12; B23K 20/1215; B23K 2201/001; B23K 2201/04; B23K 2201/125; B23K 2203/04; B23K 2203/10; B23K 2203/16; B23K 2203/26; B23K 2203/42; B23K 2203/52; B23K 26/03; B23K 26/034; B23K 26/044; B23K 26/0619; B23K 26/123; B23K 26/1429; B23K 26/20; B23K 26/28; B23K 26/362; B23K 26/38; B23K 26/382; B23K 31/02; B23K 31/12; B23K 35/0222; B23K

35/0244; B23K 35/025; B23K 35/0261; B23K 35/286; B23K 35/3006; B23K 35/3013; B23K 35/302; B23K 35/3033; B23K 35/3046; B23K 35/327; B23K 35/36; B23K 35/3603; B23K 35/3605; B23K 35/3613; B23K 35/365; B23K 37/04; B23K 9/02; B23K 9/073; B23K 9/091; B23K

(Continued)

(56)

References Cited

U.S. PATENT DOCUMENTS

2,348,385 A * 5/1944 Houghton F23D 14/40 165/134.1

D297,704 S * 9/1988 Bulow D15/144

(Continued)

Primary Examiner — Khawaja Anwar

(74) *Attorney, Agent, or Firm* — Lucas & Mercanti LLP

(57)

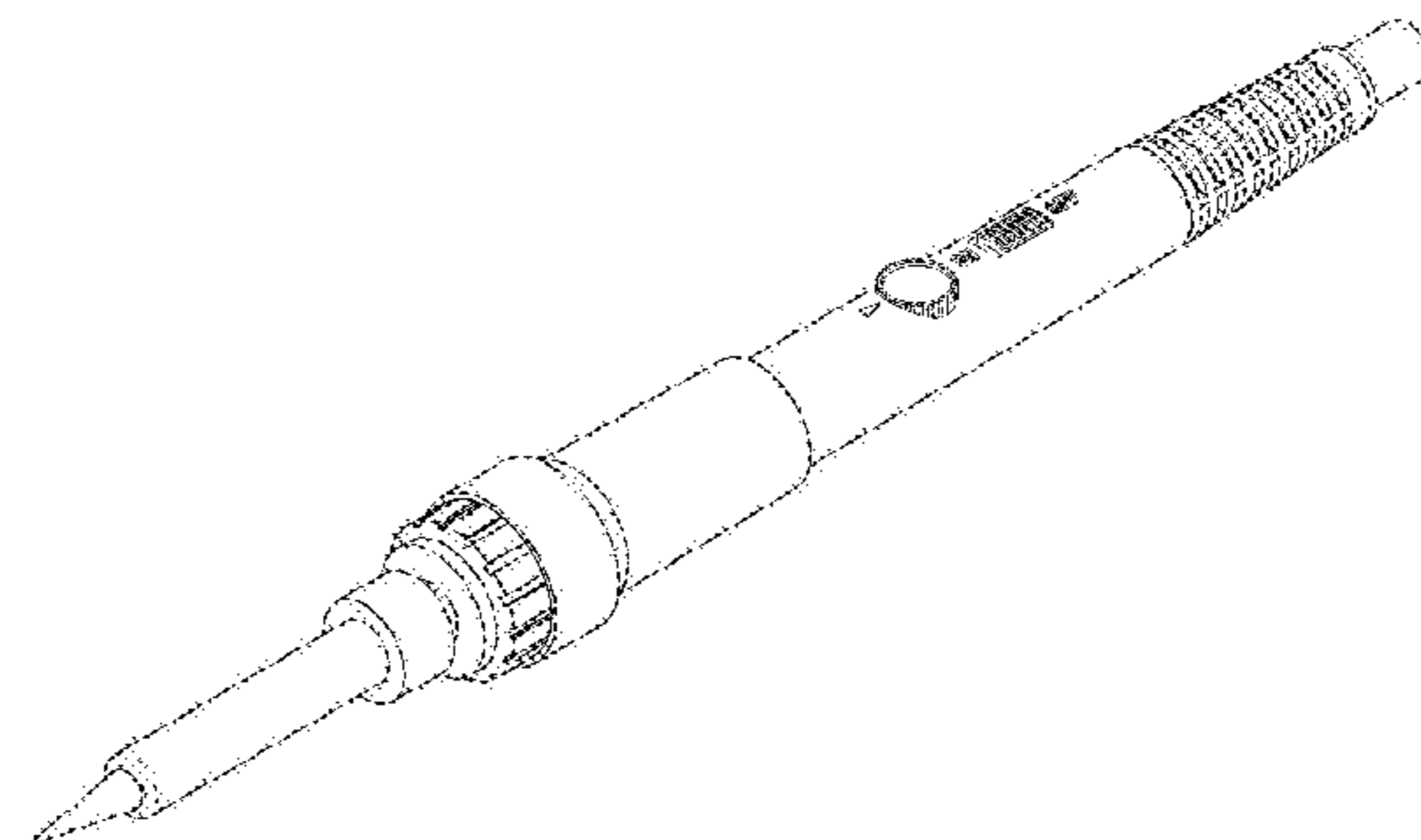
CLAIM

The ornamental design for a soldering iron, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the soldering iron.
 FIG. 2 is a front view thereof;
 FIG. 3 is a rear view thereof;
 FIG. 4 is a side view thereof, the opposite side being a mirror image;
 FIG. 5 is a top view thereof;
 FIG. 6 is a bottom view thereof;
 FIG. 7 is a perspective view of a second soldering iron corresponding to my design.
 FIG. 8 is a front view thereof;
 FIG. 9 is a rear view thereof;
 FIG. 10 is a side view thereof, the opposite side being a mirror image;
 FIG. 11 is a top view thereof; and,
 FIG. 12 is a bottom view thereof.

1 Claim, 8 Drawing Sheets



(58) **Field of Classification Search**

CPC 9/092; B23K 9/095; B23K 9/0956; B23K
9/1006

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D489,079	S	*	4/2004	Horner-Richardson	.....	D15/144
D590,852	S	*	4/2009	Killion	.....	D15/144
D652,437	S	*	1/2012	Furujo	.....	D15/144
D735,786	S	*	8/2015	Sallander	.....	D15/144
D736,285	S	*	8/2015	Hassan	.....	D15/144
D815,168	S	*	4/2018	Cash	.....	D15/144

* cited by examiner

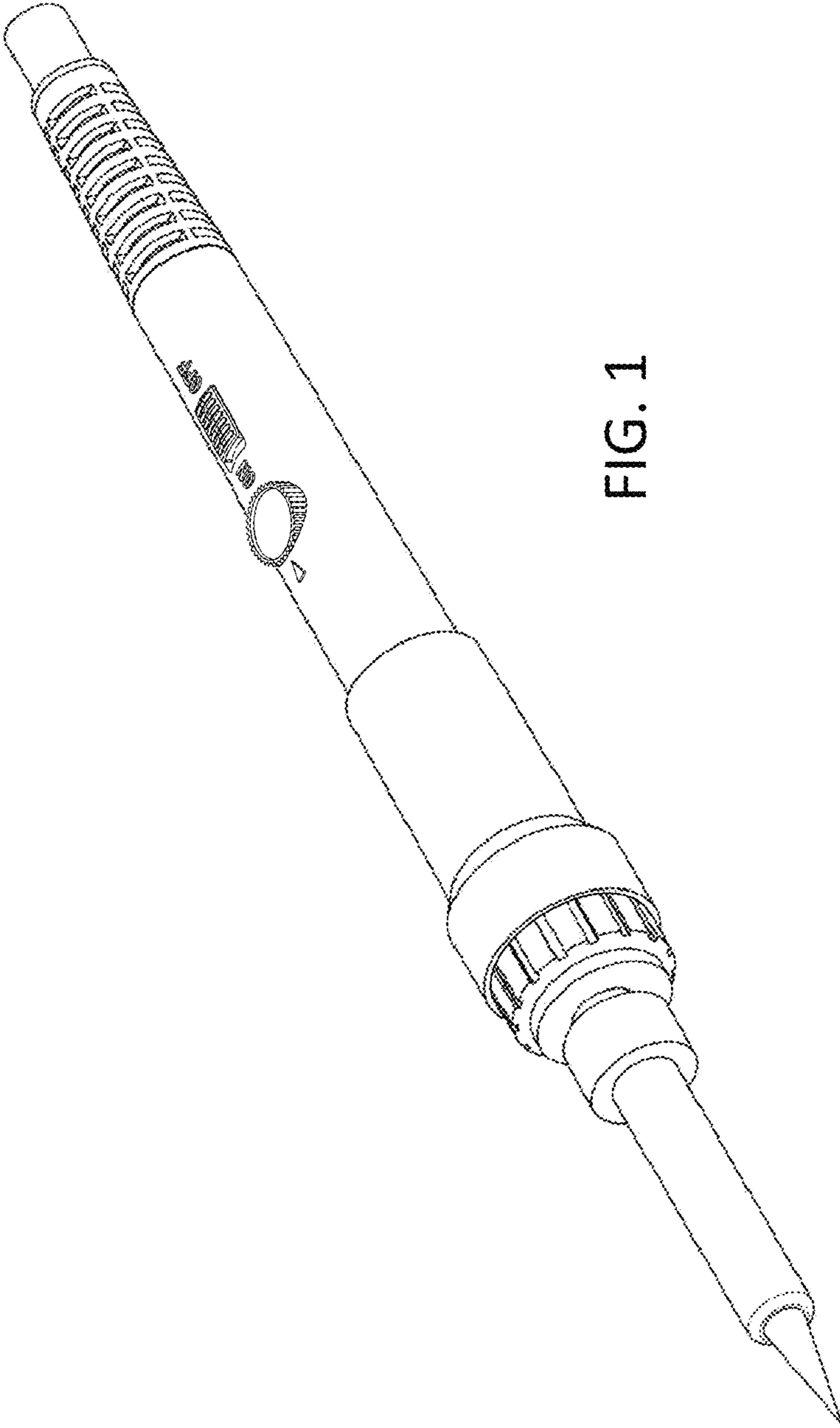


FIG. 1

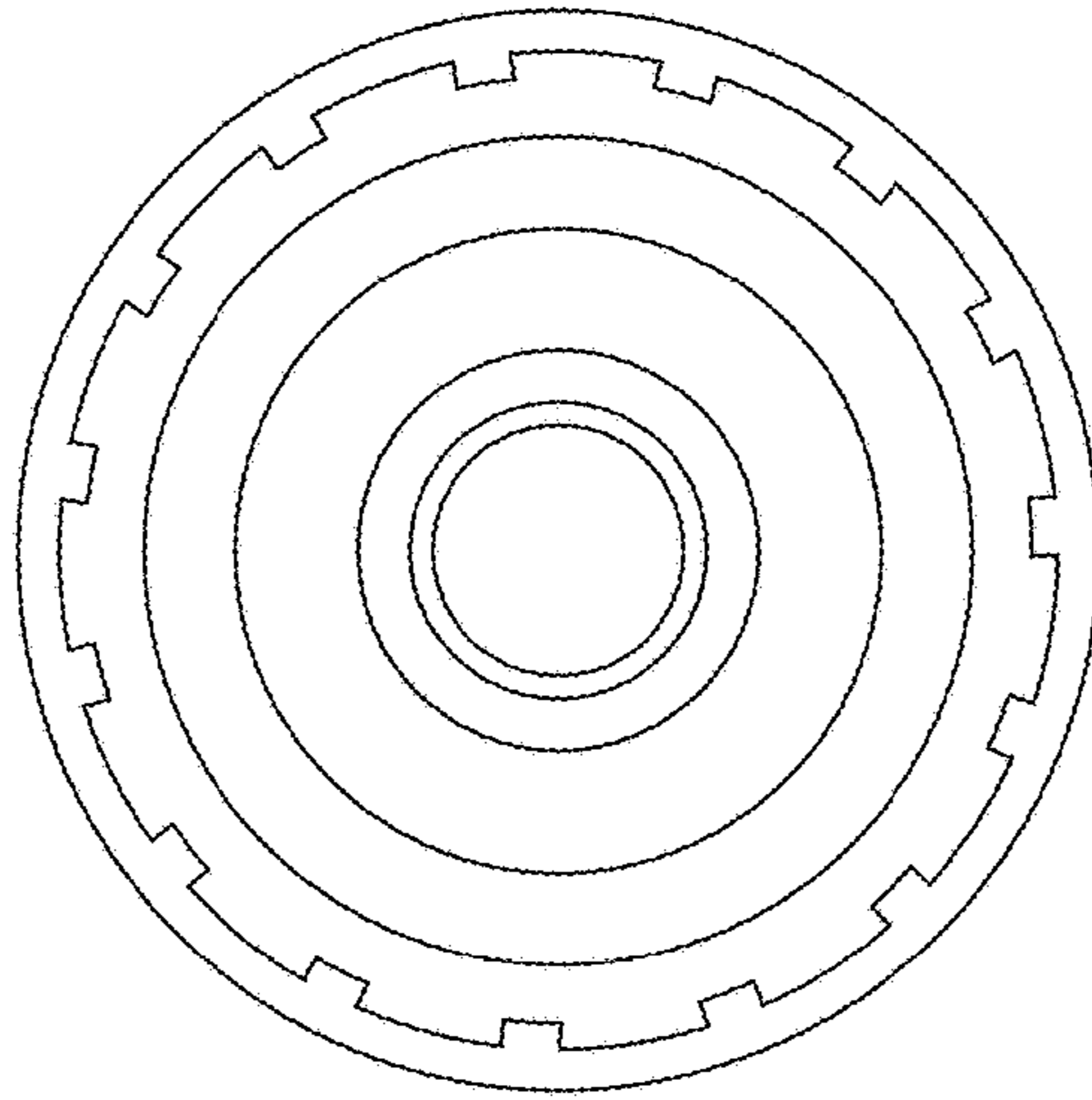


FIG. 2

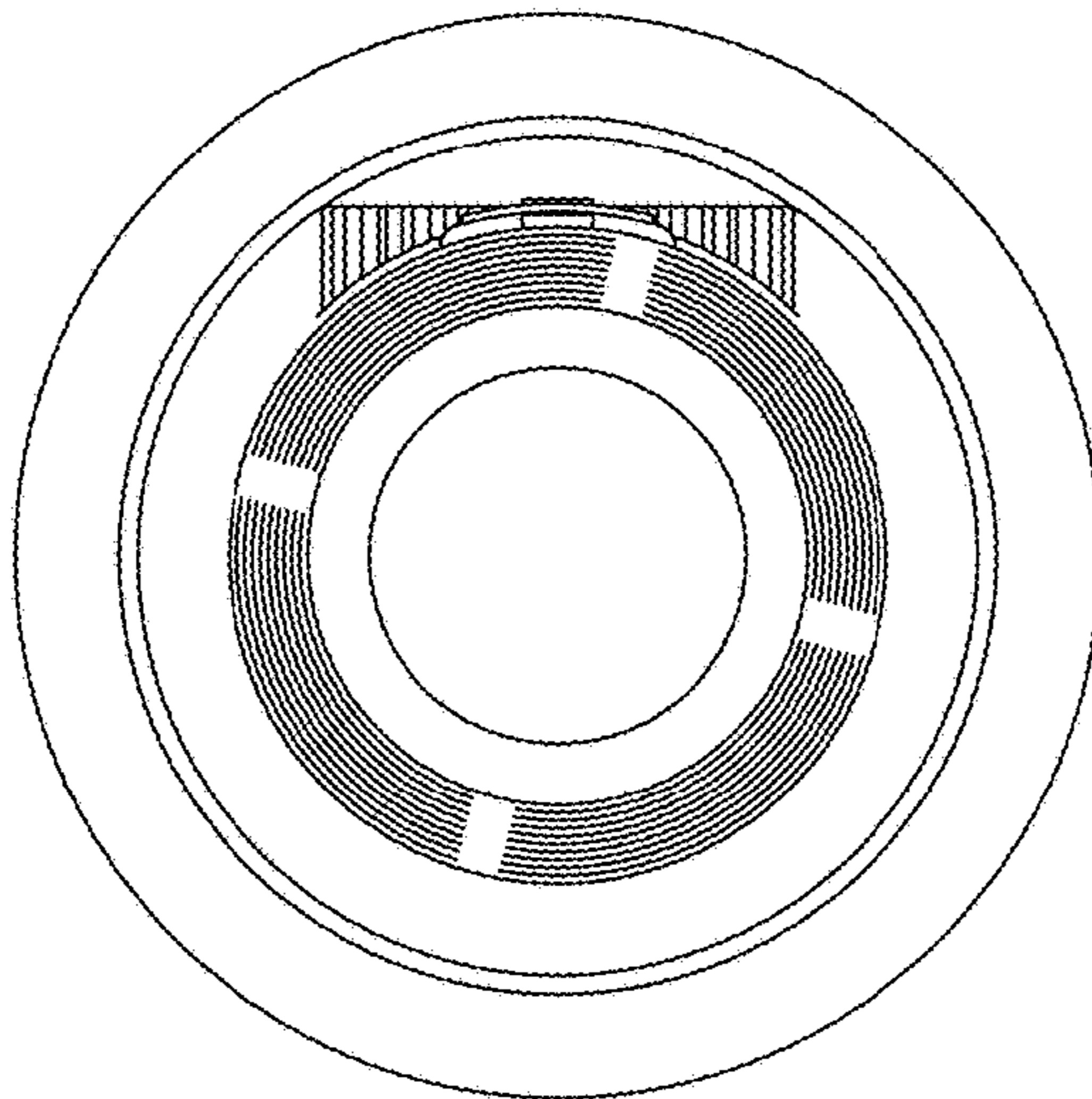


FIG. 3

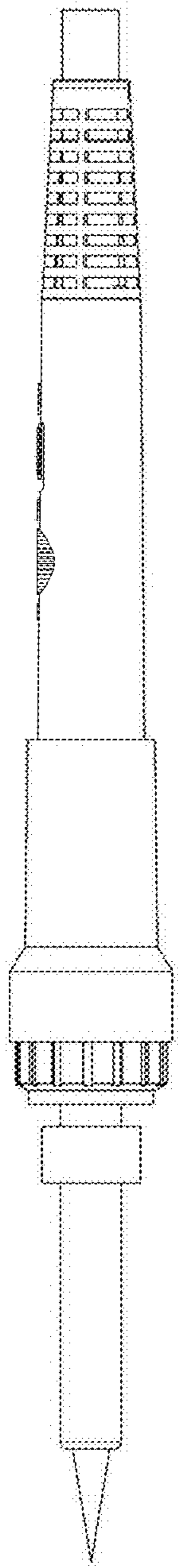


FIG. 4

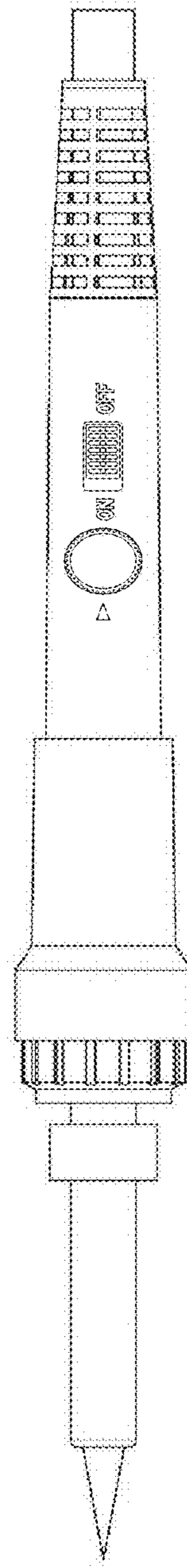


FIG. 5

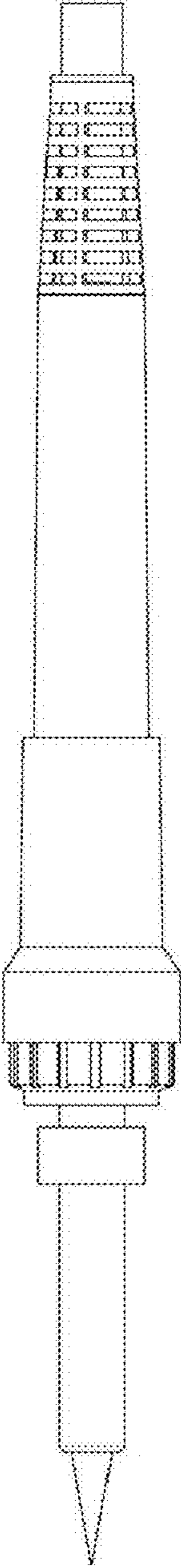


FIG. 6

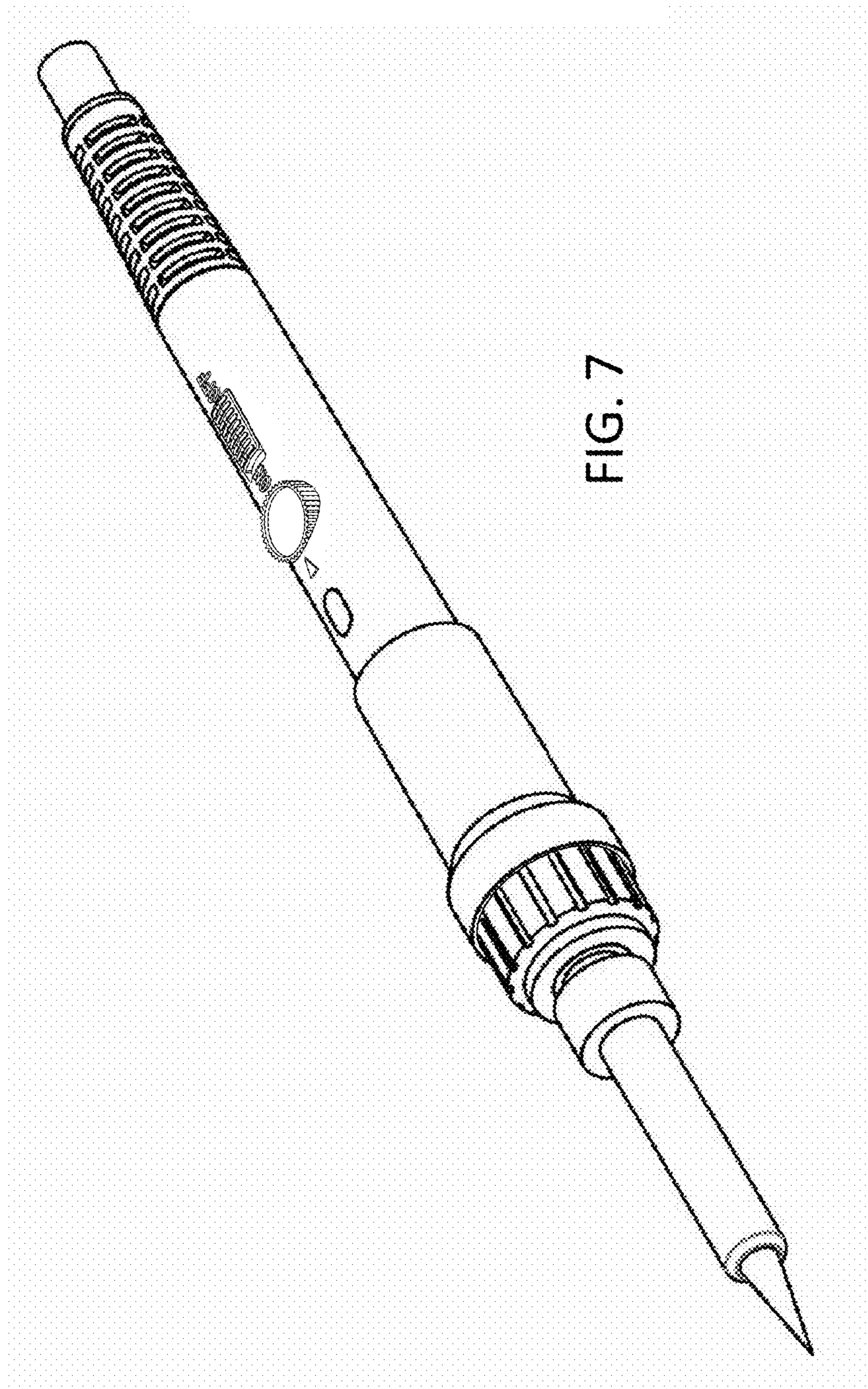


FIG. 7

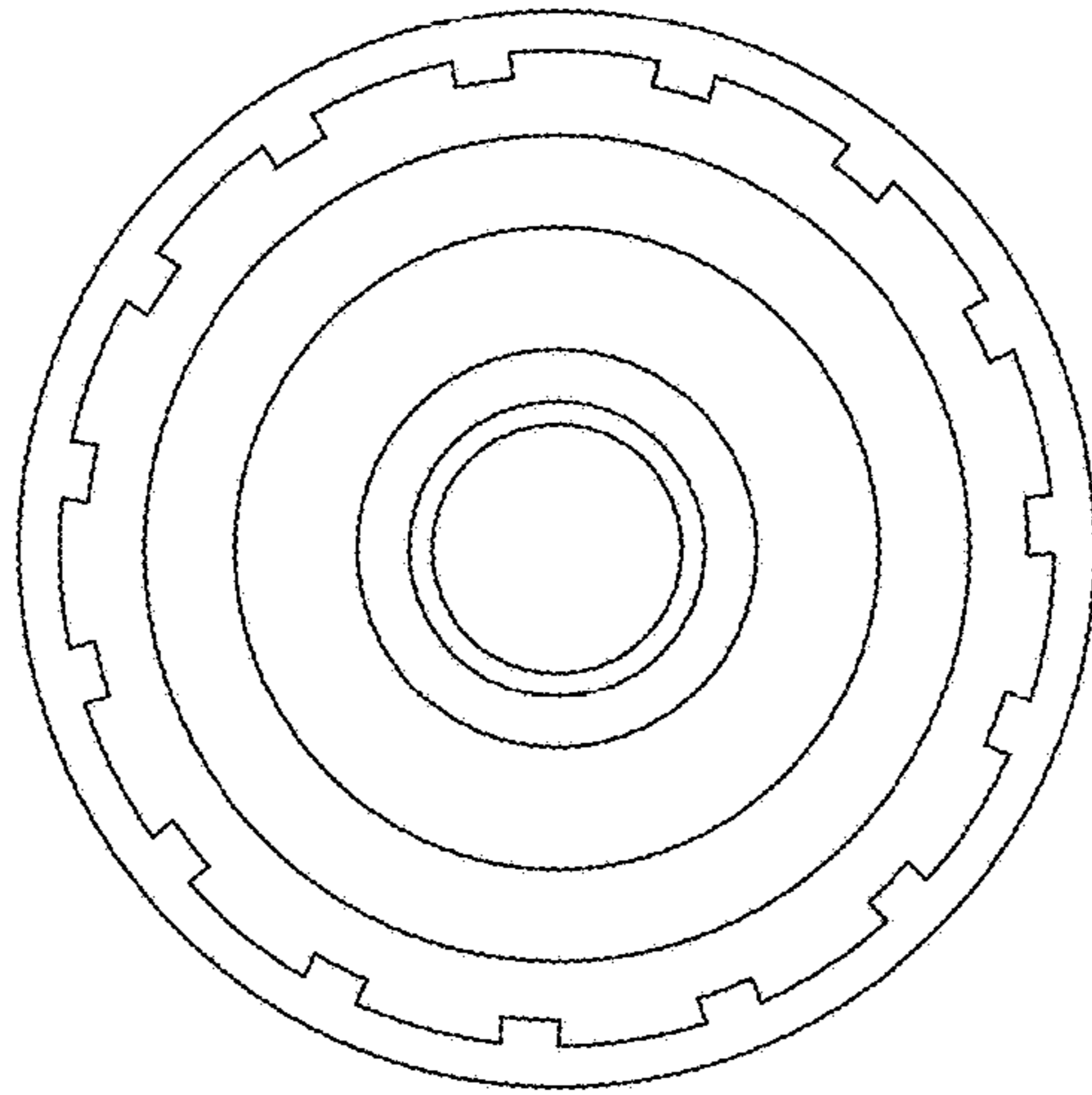


FIG. 8

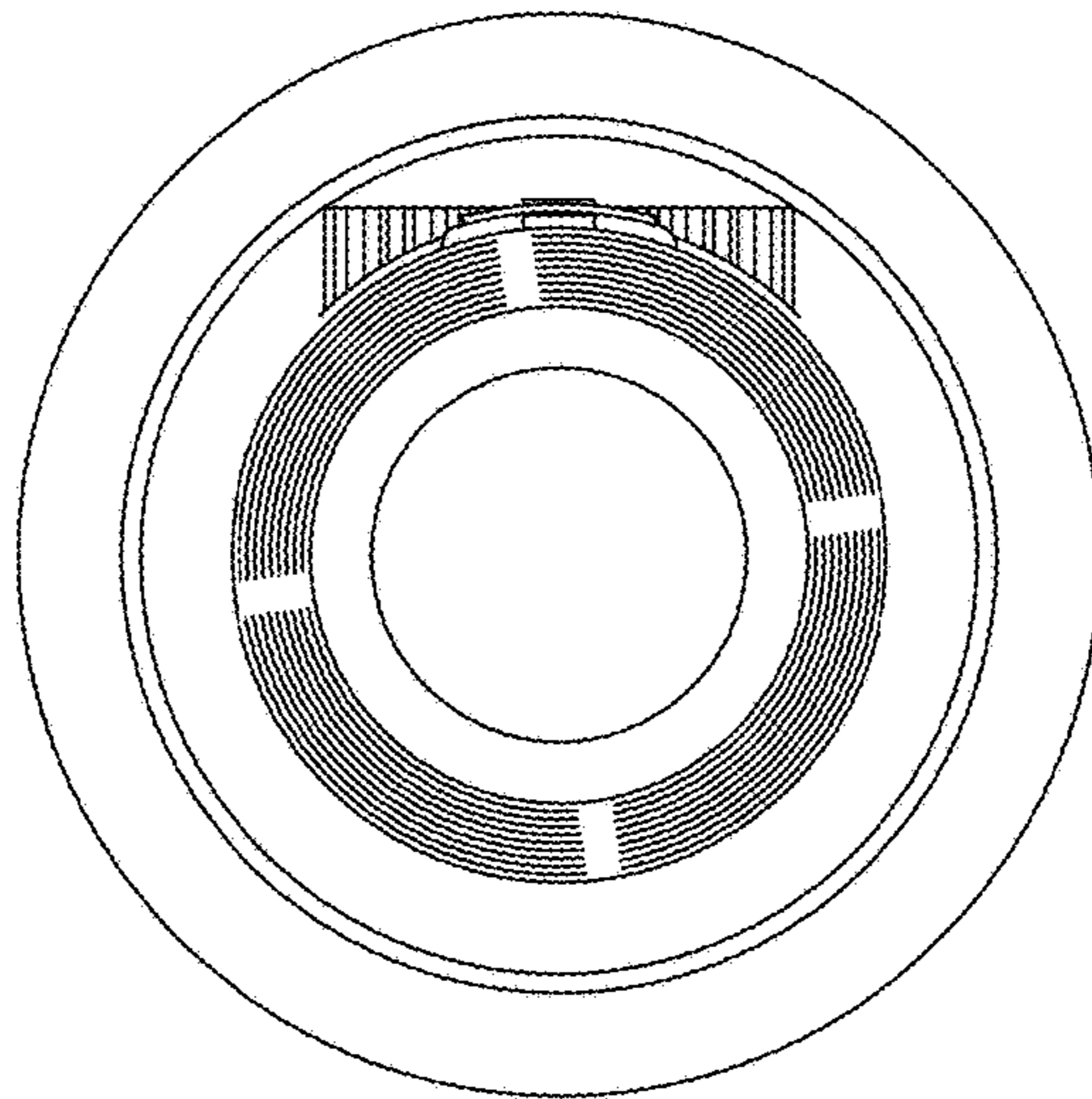


FIG. 9

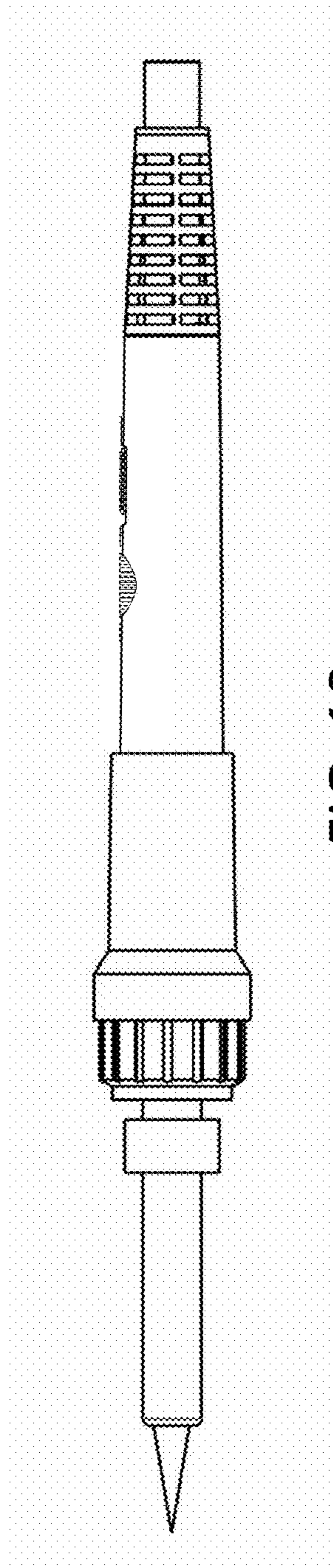


FIG. 10

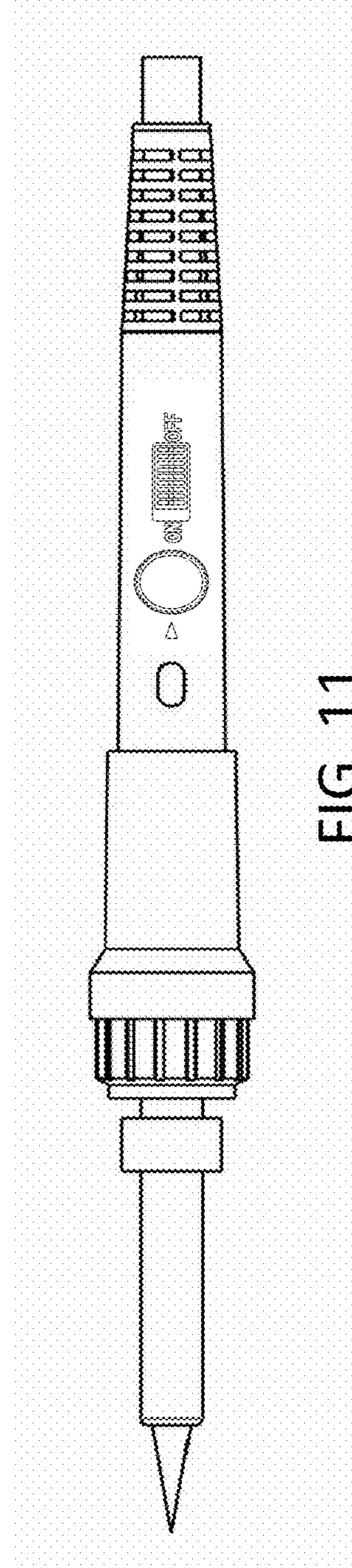


FIG. 11

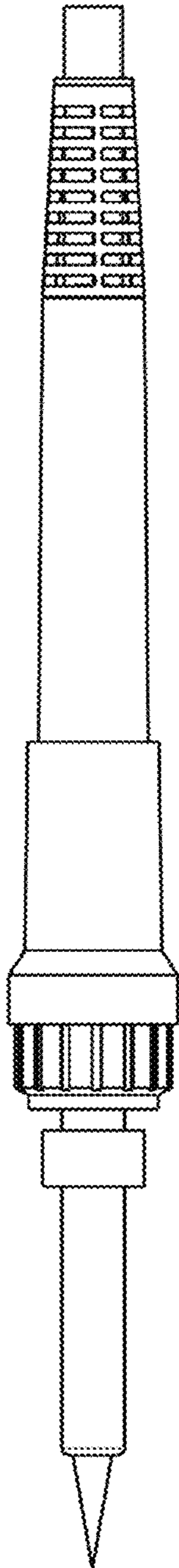


FIG. 12