

US00D962872S

(12) **United States Design Patent**  
**Nagase**

(10) **Patent No.:** **US D962,872 S**  
(45) **Date of Patent:** **\*\* Sep. 6, 2022**

(54) **ELECTRIC CONNECTOR**

(71) Applicant: **OMRON Corporation**, Kyoto (JP)

(72) Inventor: **Masao Nagase**, Okayama (JP)

(73) Assignee: **OMRON Corporation**, Kyoto (JP)

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

(21) Appl. No.: **29/777,771**

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(30) **Foreign Application Priority Data**

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(51) **LOC (13) Cl.** ..... **13-03**

(52) **U.S. Cl.**

USPC ..... **D13/154**

(58) **Field of Classification Search**

USPC ..... D13/154, 146, 147, 123, 133,  
D13/137.1-139.8, 110, 159, 184, 199

CPC . H01R 13/622; H01R 13/625; H01R 13/5845

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,579,418 A *	4/1986	Parchet	.....	G02B 6/3831
				D13/133
D460,739 S *	7/2002	Fox	.....	D13/154
D462,060 S *	8/2002	Fox	.....	D13/154
D509,474 S *	9/2005	Bihrer	.....	D13/146
D511,747 S *	11/2005	Rey	.....	D13/146
D580,371 S *	11/2008	Farahani	.....	D13/154
D582,851 S *	12/2008	Lavy	.....	D13/133
D640,984 S *	7/2011	Derenthal	.....	D13/154
D661,256 S *	6/2012	Shawgo	.....	D13/154
D675,165 S *	1/2013	Chawgo	.....	D13/151

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP D1684710 \* 5/2021  
JP D1684711 \* 5/2021

(Continued)

**OTHER PUBLICATIONS**

Masao Nagase, Electric Connector, Design U.S. Appl. No. 29/777,757, filed Apr. 8, 2021, in the USPTO.

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(57) **CLAIM**

The ornamental design for an electric connector, as shown and described.

**DESCRIPTION**

FIG. 1 is a top, front, and right side perspective view of an electric connector showing my new design;

FIG. 2 is a top, rear, and right side perspective view thereof;

FIG. 3 is a bottom, front, and right side perspective view thereof;

FIG. 4 is a front view thereof;

FIG. 5 is a rear view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a right side view thereof;

FIG. 8 is a top view thereof;

FIG. 9 is a bottom view thereof;

FIG. 10 is a top, front, and right side perspective view of a coupling part shown in FIGS. 1-9;

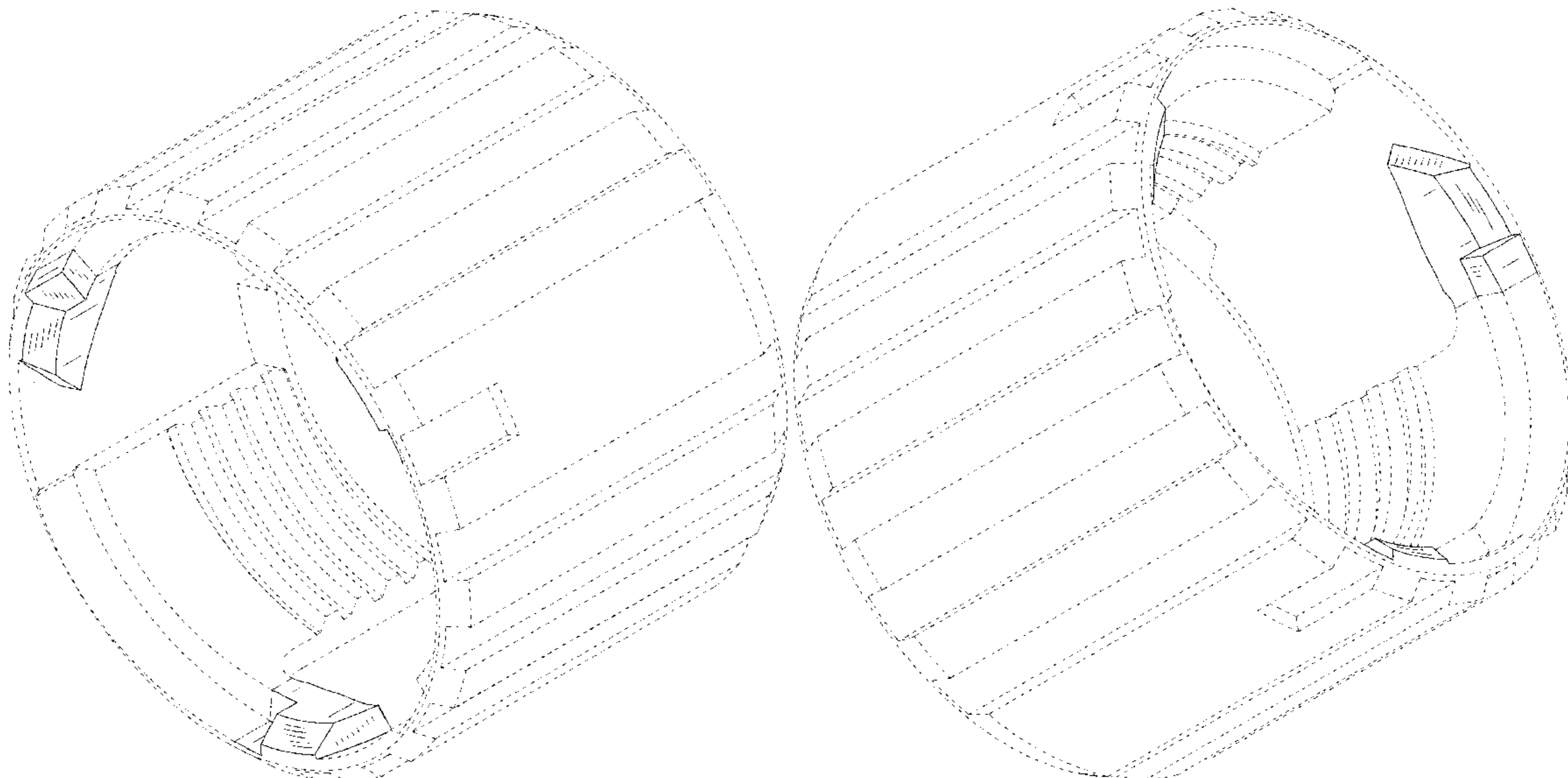
FIG. 11 is a top, rear, and right side perspective view thereof; and,

FIG. 12 is a bottom, front, and right side perspective view thereof.

The dashed broken lines in the figures show portions of the electric connector that form no part of the claimed design.

The dot-dashed broken lines in the figures depict the bounds of the claim and form no part thereof.

**1 Claim, 11 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D824,857 S \* 8/2018 Vogel ..... D13/146  
D846,623 S \* 4/2019 Siminoff ..... D13/133  
D903,604 S \* 12/2020 Su ..... D13/151  
2005/0239311 A1\* 10/2005 Yokoigawa ..... H01R 13/622  
439/311  
2013/0065420 A1\* 3/2013 Van Swearingen .. H01R 13/625  
439/372  
2015/0050827 A1\* 2/2015 Chang ..... H01R 13/6275  
439/312  
2015/0087187 A1\* 3/2015 Kifedjian ..... H01R 13/701  
439/620.01  
2020/0280148 A1\* 9/2020 Otsu ..... H01R 13/111  
2021/0382247 A1\* 12/2021 Tseng ..... G02B 6/3891

FOREIGN PATENT DOCUMENTS

JP D1688144 \* 6/2021  
KR 3011566970001 \* 3/2022  
KR 3011566970002 \* 3/2022  
KR 3011566970003 \* 3/2022  
KR 3011566970004 \* 3/2022

\* cited by examiner

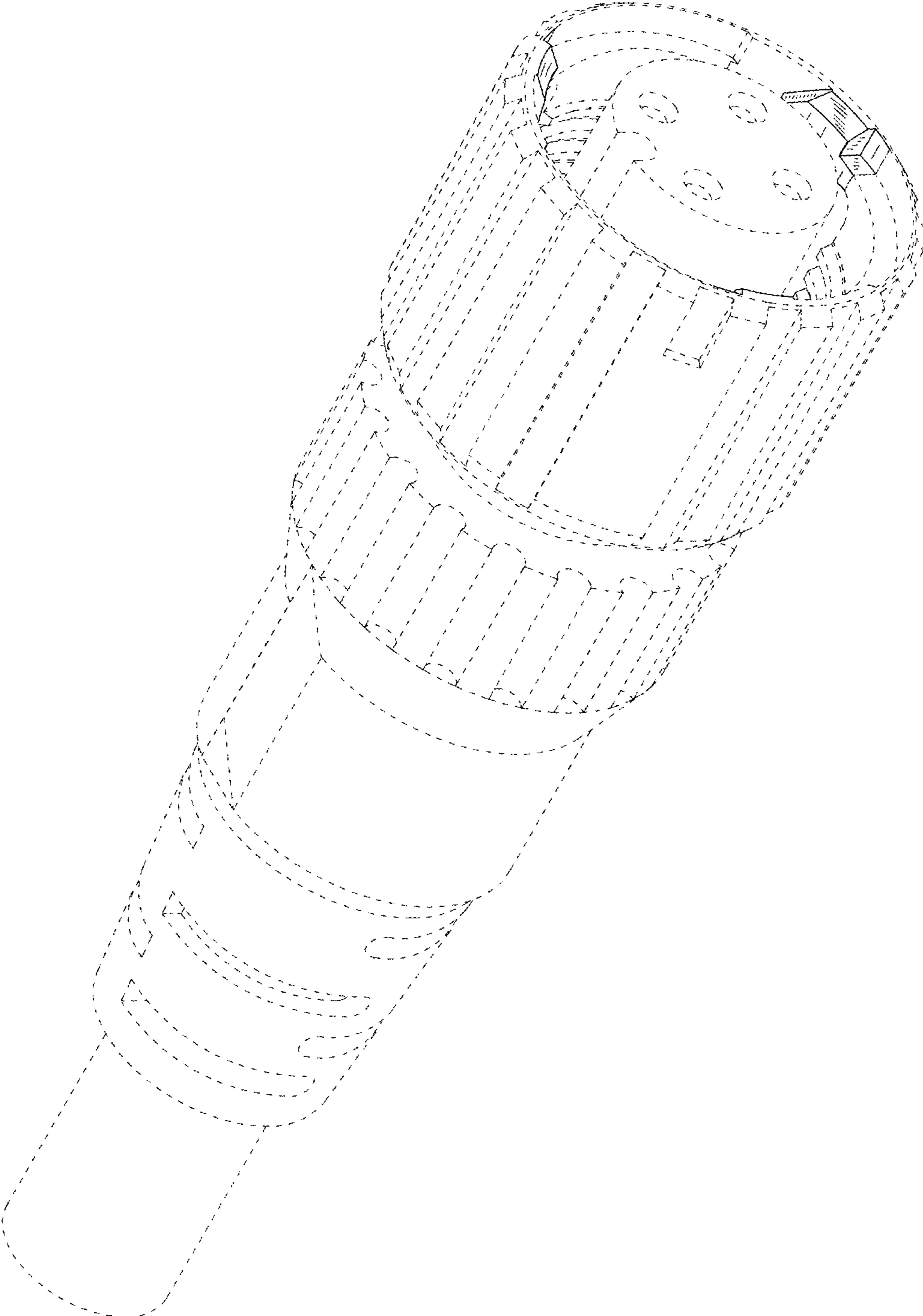


FIG. 1

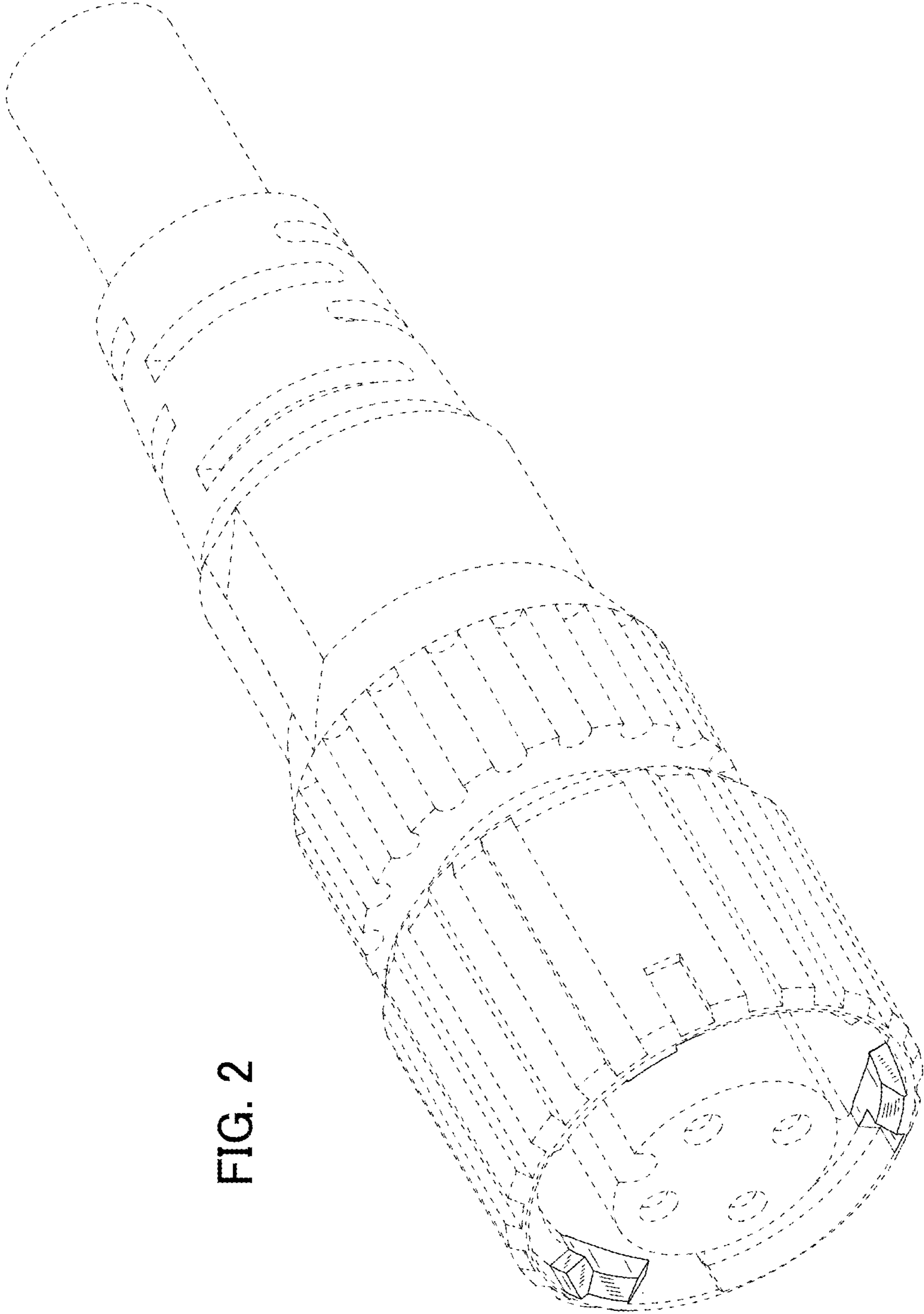


FIG. 2

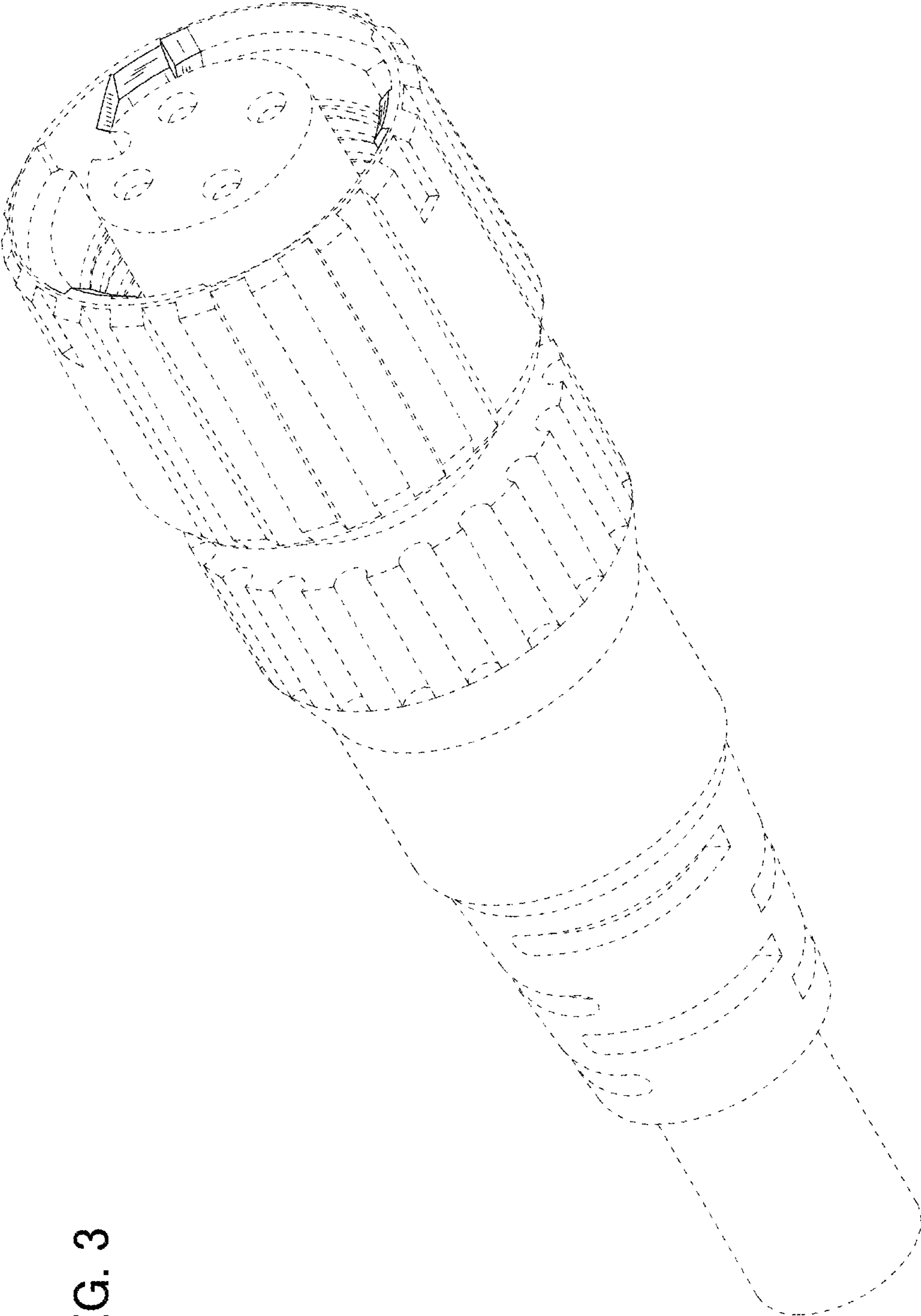


FIG. 3

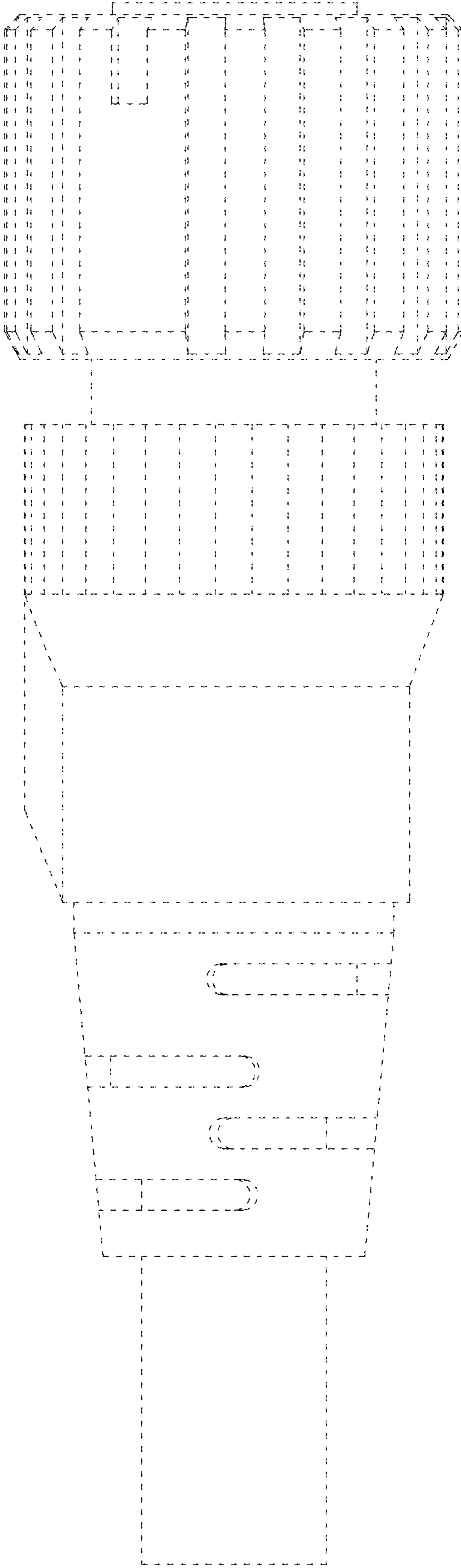


FIG. 4

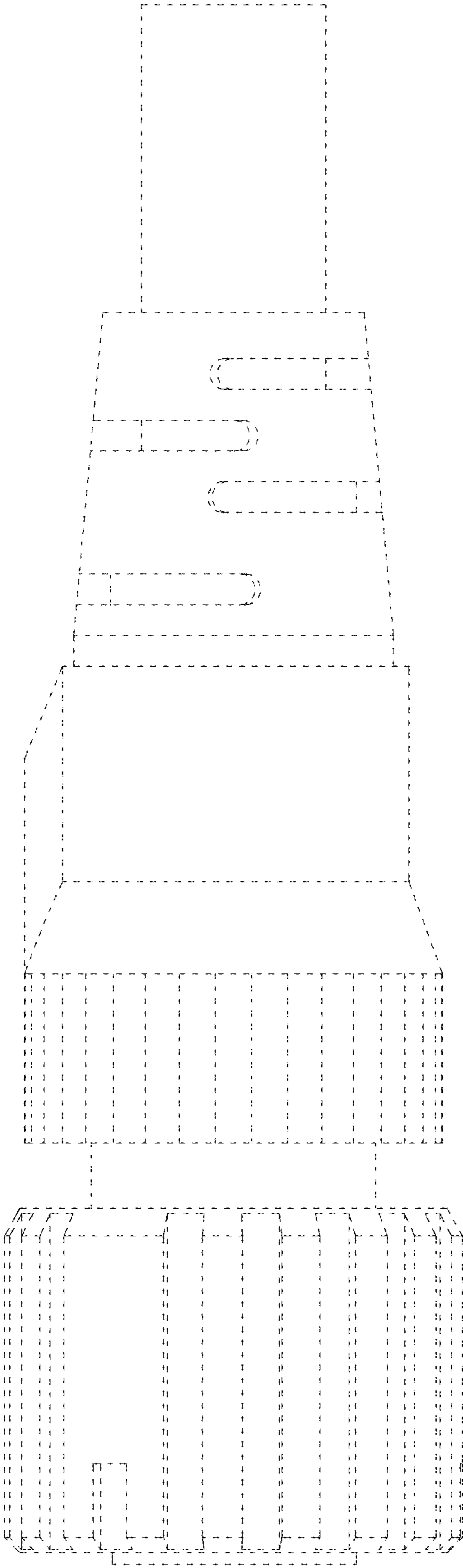


FIG. 5

FIG. 7

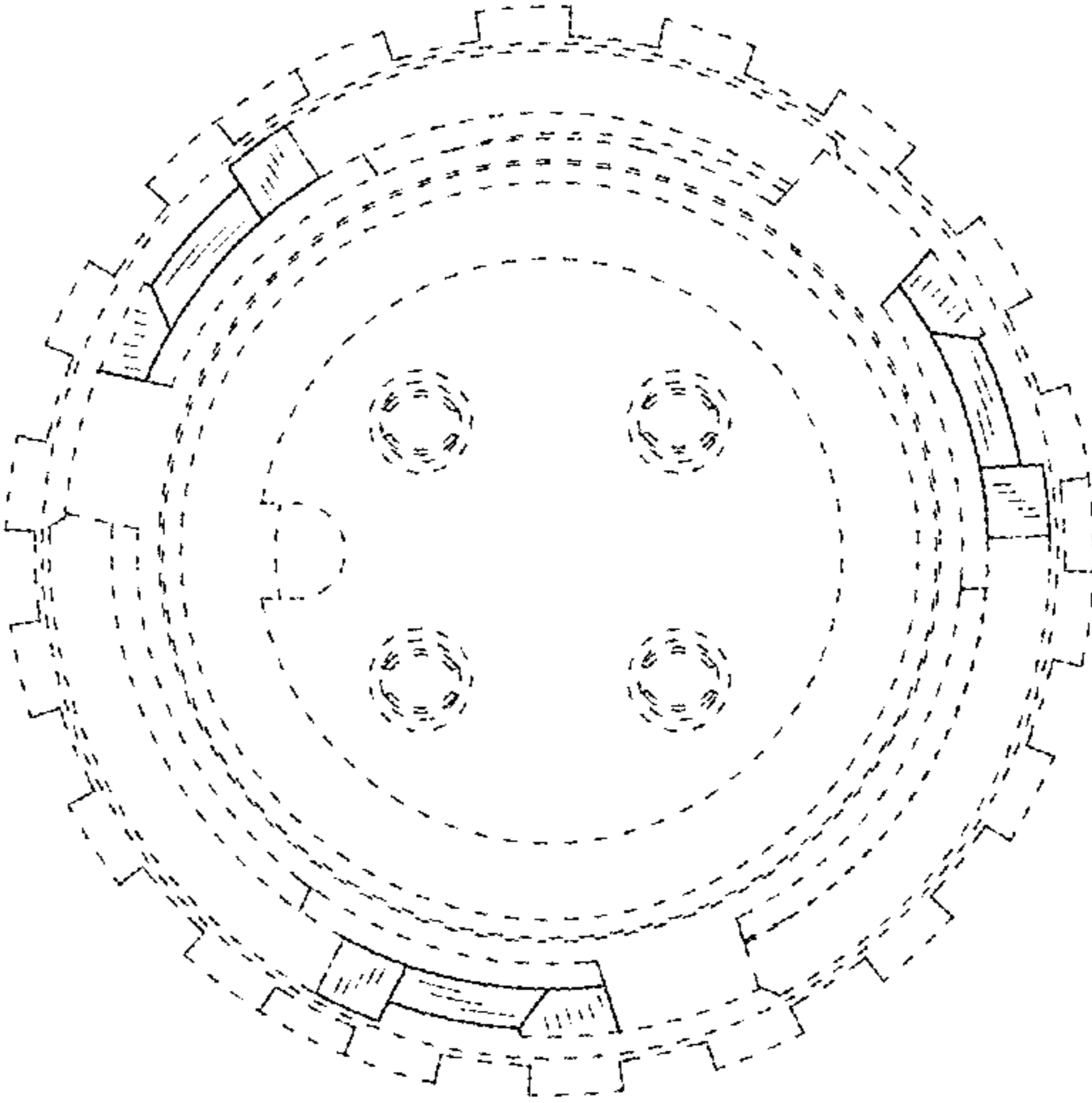
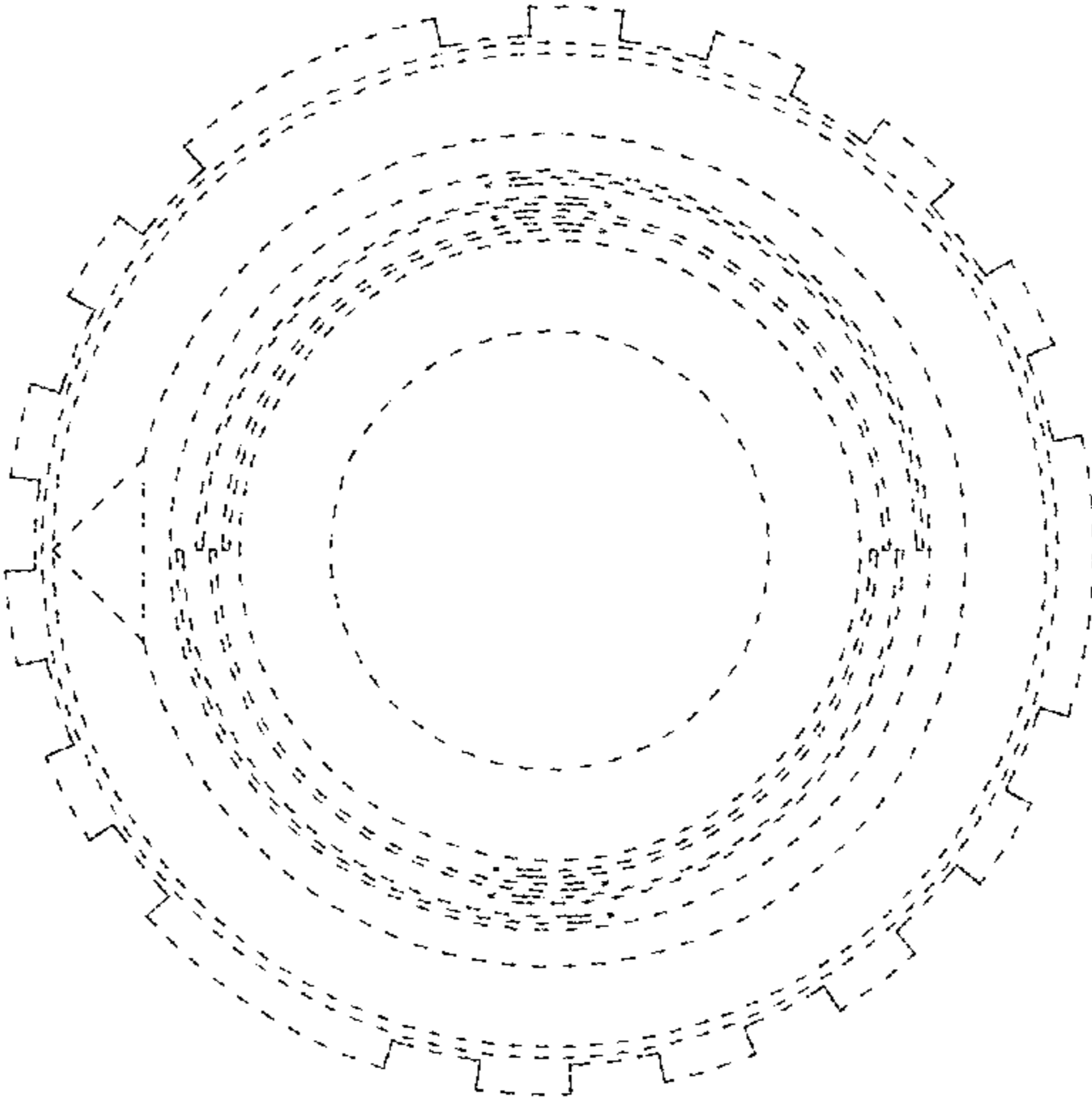


FIG. 6





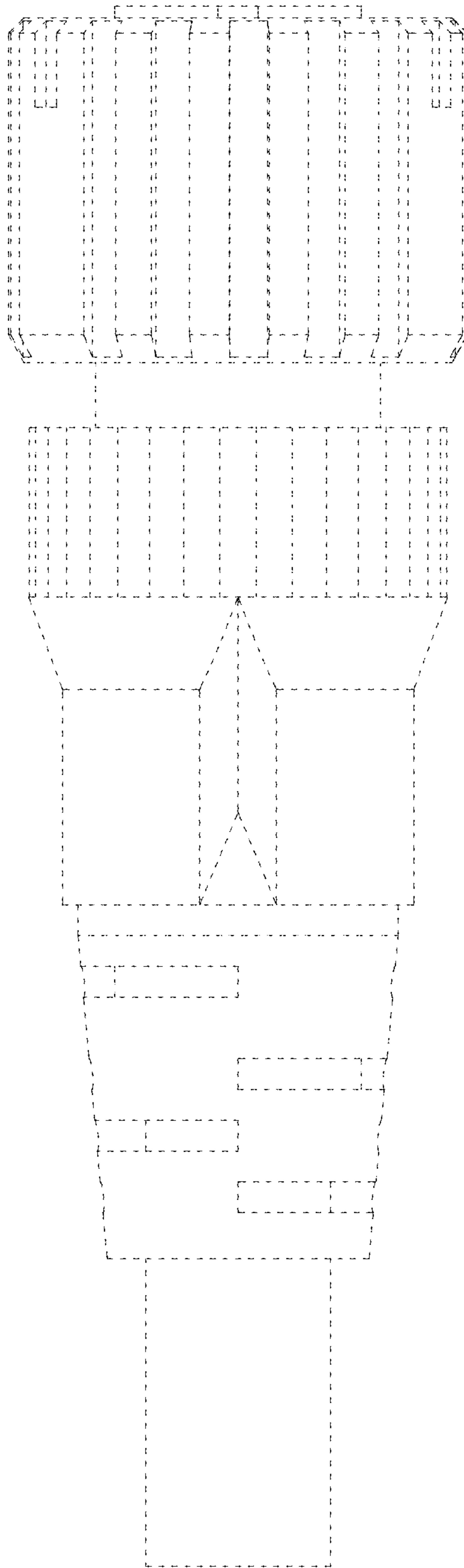


FIG. 8

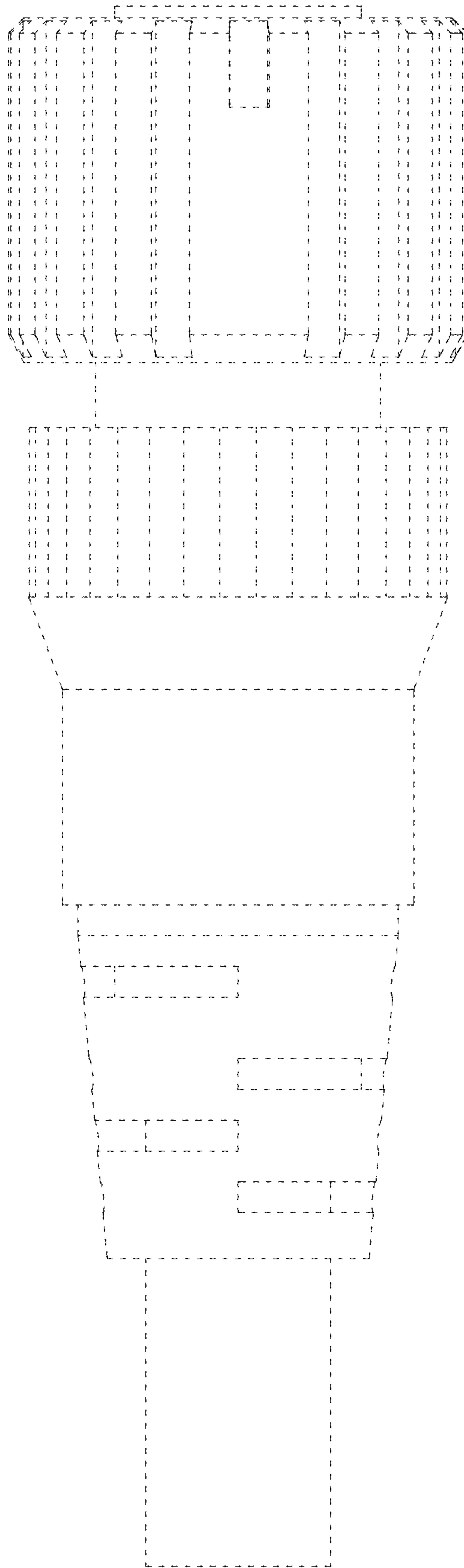


FIG. 9

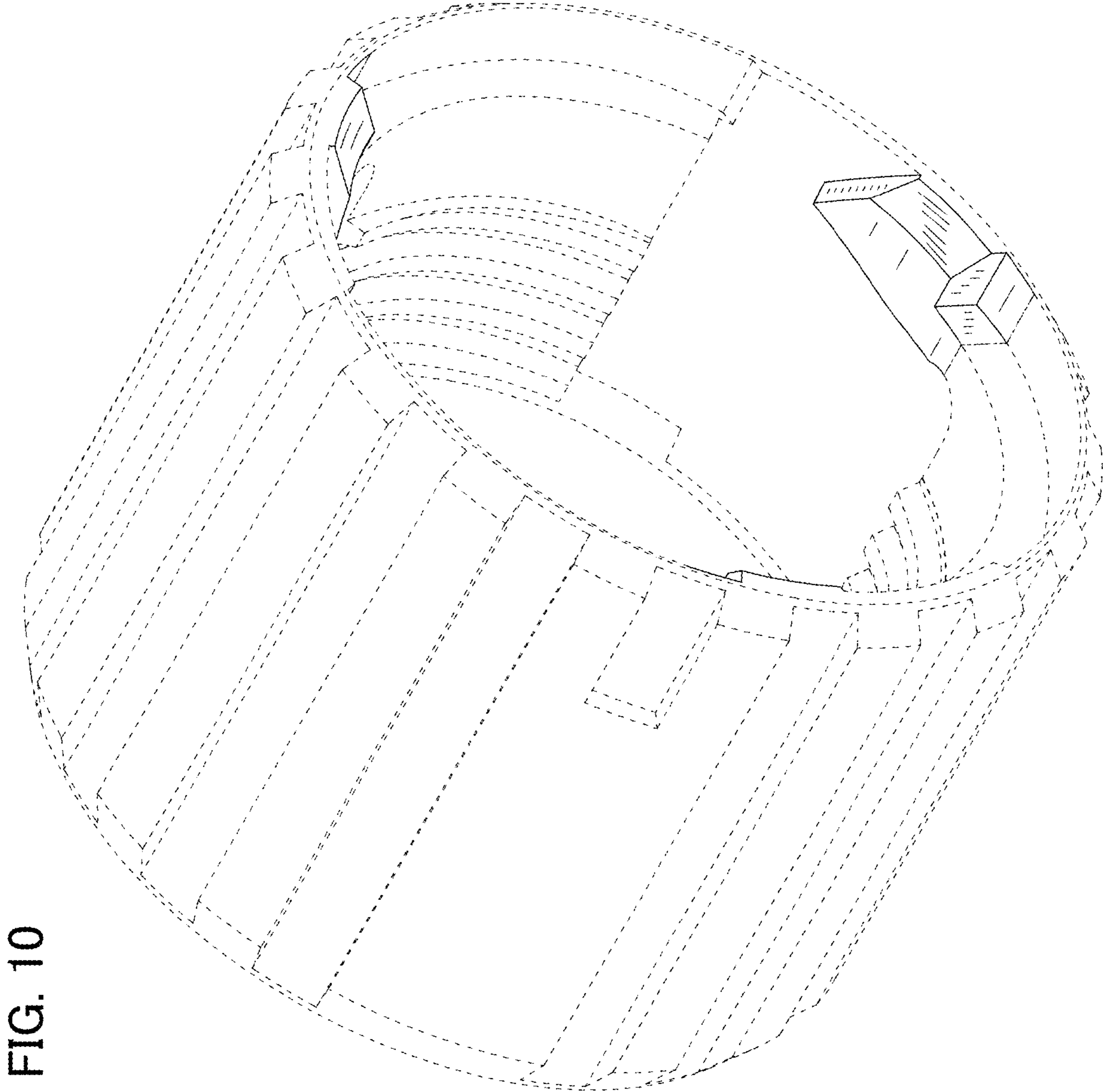


FIG. 10

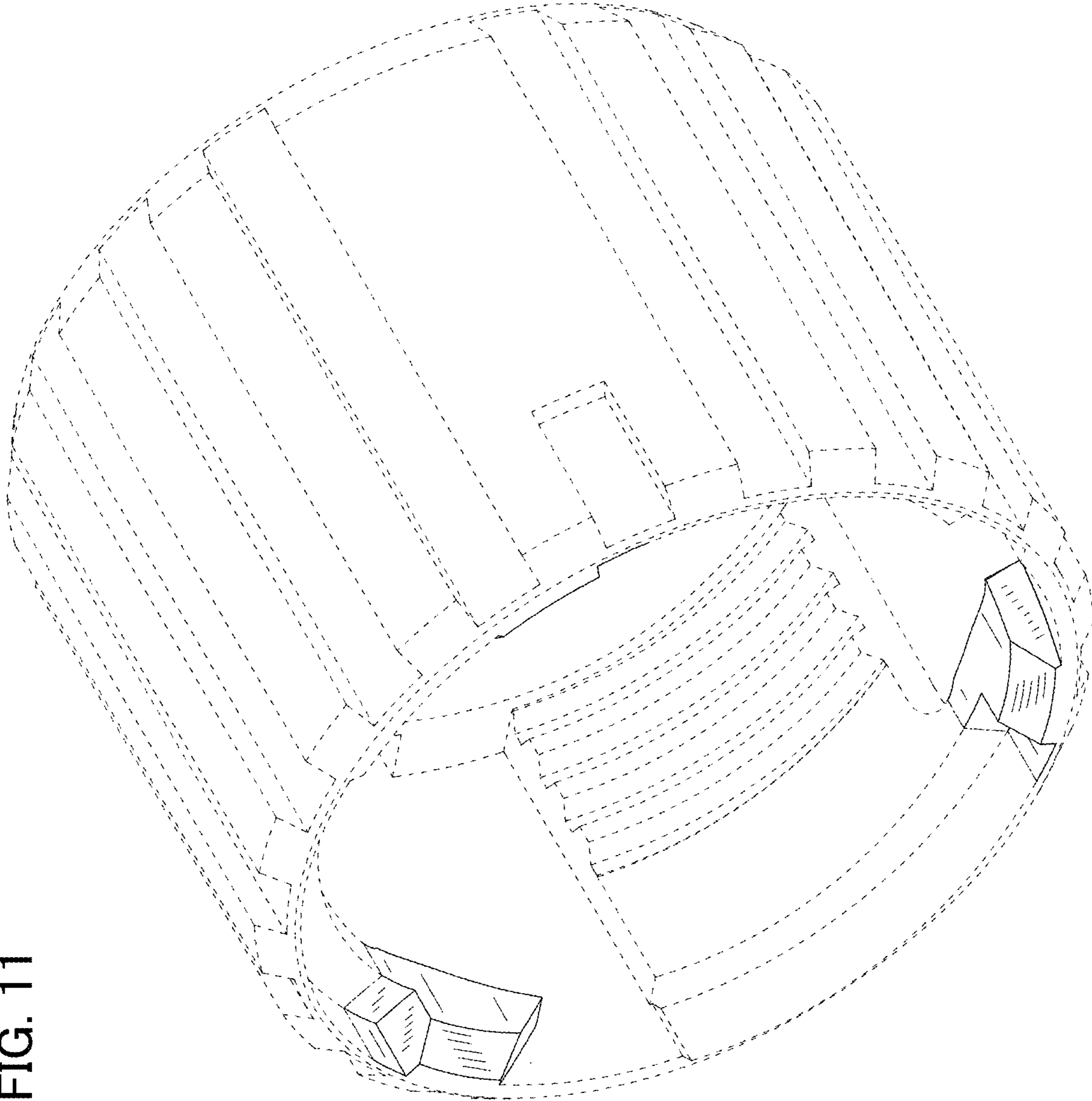


FIG. 11

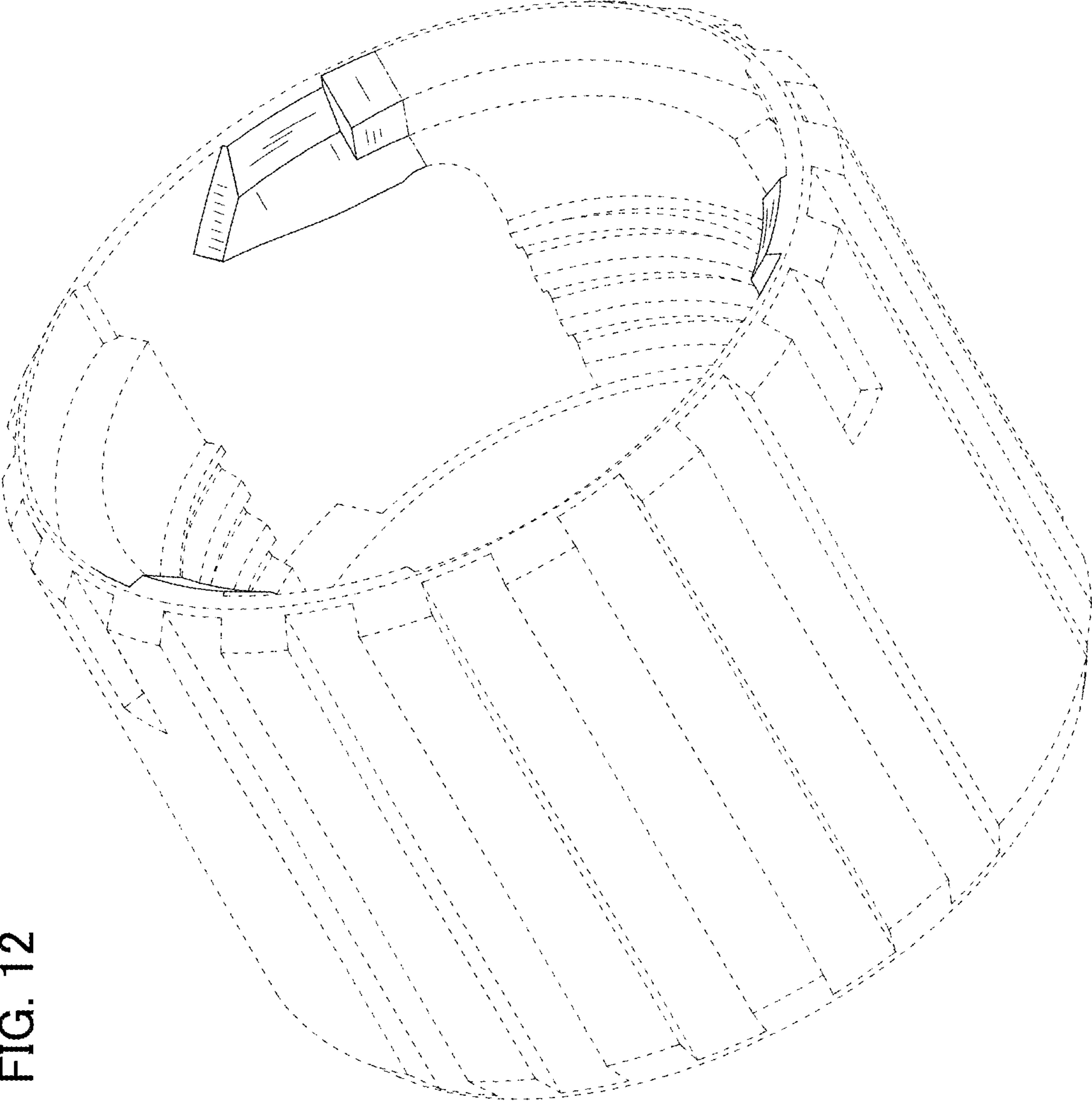


FIG. 12