



US00D823908S

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

(10) **Patent No.:** **US D823,908 S**

(45) **Date of Patent:** **** Jul. 24, 2018**

(54) **ROCK DRILL BIT**

(71) Applicant: **ATLAS COPCO SECOROC AB**,
Fagersta (SE)

(72) Inventor: **Thomas Osterholm**, Fagersta (SE)

(73) Assignee: **ATLAS COPCO SECOROC AB**,
Fagersta (SE)

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

(21) Appl. No.: **29/546,613**

(22) Filed: **Nov. 24, 2015**

(30) **Foreign Application Priority Data**

May 29, 2015 (EM) 2710236-0001-0006

(51) **LOC (11) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/139**

(58) **Field of Classification Search**
USPC D8/6; D15/28, 132, 138, 39, 140
CPC E21B 10/36; E21B 10/38; E21B 10/46;
E21B 10/56
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,918,538 A * 11/1975 Bender E21B 10/26
175/417
- 4,817,852 A * 4/1989 Hill B23K 20/129
228/113
- 4,862,976 A * 9/1989 Meek E21B 4/06
175/296
- 4,919,221 A * 4/1990 Pascale E21B 10/36
173/132
- 5,890,551 A * 4/1999 Liljebrand E21B 10/38
175/414
- 6,039,127 A * 3/2000 Myers E21B 10/38
175/425
- D454,143 S * 3/2002 Åsberg D15/139

- D496,948 S * 10/2004 Charland D15/139
- 6,799,648 B2 * 10/2004 Brandenburg B22D 19/06
175/393
- 7,117,939 B1 * 10/2006 Hawley E21B 10/36
166/99
- 7,281,594 B2 * 10/2007 Hadin E21B 10/36
175/320

(Continued)

OTHER PUBLICATIONS

A15003_Urval av borrhkronor fran produktkatalog 2003 from a catalogue issued in 2003 by Atlas Copco; 5 pages.

(Continued)

Primary Examiner — Patricia A Palasik

(74) *Attorney, Agent, or Firm* — Knobbe, Martens, Olson & Bear LLP

(57) **CLAIM**

The ornamental design for a rock drill bit, as shown and described.

DESCRIPTION

FIG. 1 is top perspective view of a rock drill bit, showing my new design.

FIG. 2 is a bottom perspective view thereof.

FIG. 3 is a bottom plan view thereof.

FIG. 4 is a top plan view thereof.

FIG. 5 is a right side elevational view thereof.

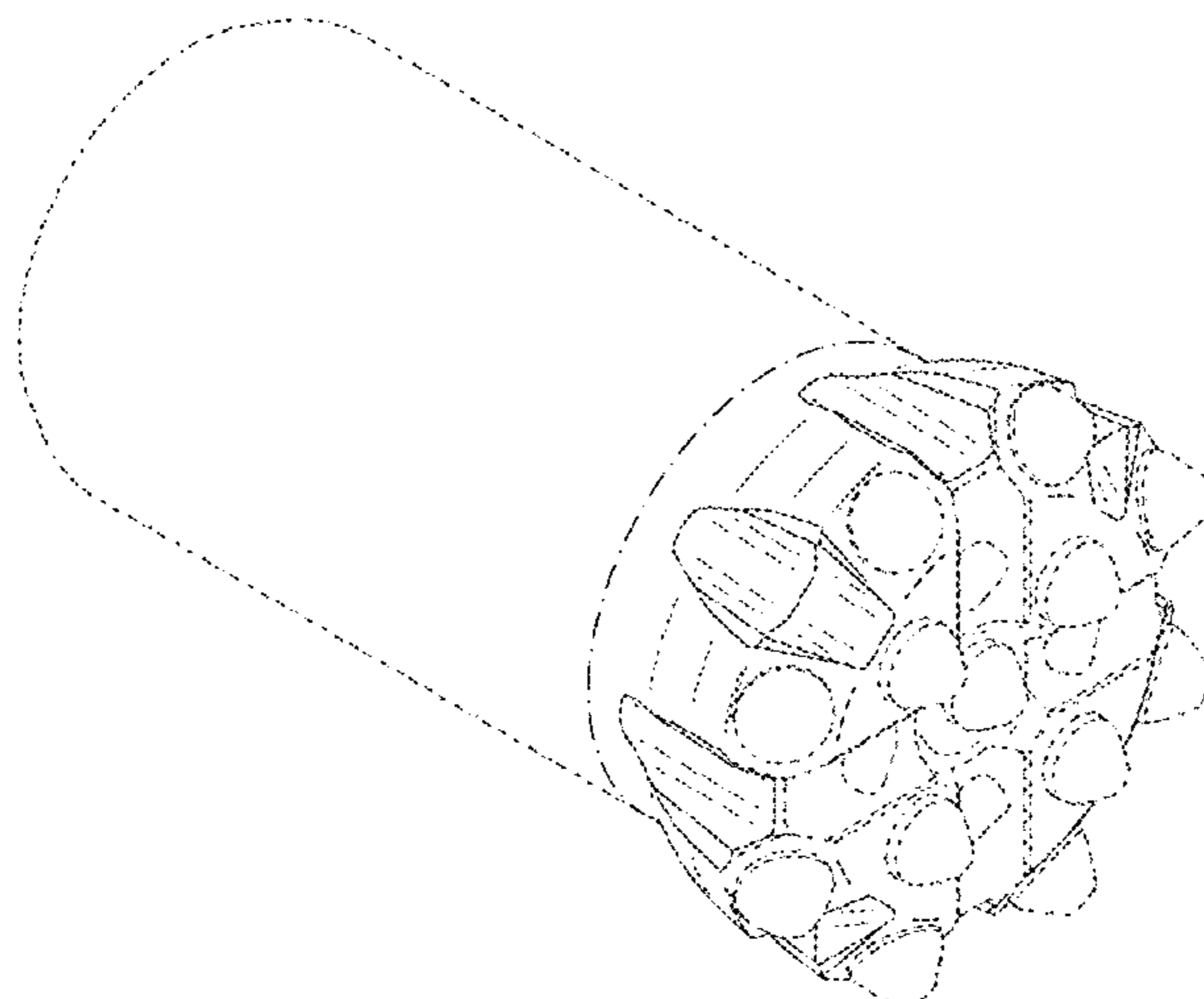
FIG. 6 is a left side elevational view thereof.

FIG. 7 is a front elevational view thereof; and,

FIG. 8 is a rear elevational view thereof.

The evenly-broken dash-dash lines in the views depict environmental features only and form no part of the claimed design. The broken dot-dash lines in the views define the peripheral boundaries of the claimed design and are not part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,290,626	B2 *	11/2007	Terlet	E21B 10/38 175/296
7,296,641	B2 *	11/2007	Hadin	E21B 10/56 175/418
D611,512	S *	3/2010	Sundin	D15/139
D611,970	S *	3/2010	Sundin	D15/139
D705,827	S *	5/2014	Hammargren	D15/139
D725,164	S *	3/2015	Guerriero	D15/139
2002/0153174	A1 *	10/2002	Linden	E21B 10/56 175/426
2004/0040752	A1 *	3/2004	Brandenberg	B22D 19/06 175/420.1
2006/0060389	A1 *	3/2006	Hadin	E21B 10/56 175/415
2006/0162965	A1 *	7/2006	Hadin	E21B 10/36 175/296
2007/0137900	A1 *	6/2007	Bjork	E21B 10/38 175/414

OTHER PUBLICATIONS

Atlas Copco Catalogue dated May 2015; Product Area—Tophammer; Sevcoroc Tophammer equipment-product catalogue; Drifting, Tunnelling and Bolting; pp. 39, 40, 46, 53, 56, 64, 65, 76, 81, 82, 87, 92, 95, 97 and 98.
Product Catalogue Sandvik Mining; Sandvik Top Hammer Rock Drilling Tools; issued 2013; 112 pages.

Tasarim Yayina Itiraz Talep Formu: Opposition Form received from Turkish Patent Office dated Mar. 21, 2016 for Corresponding Turkish Application 2015/07944.

English Google machine Translation of Opposition Form Tasarim Yayina Itiraz Talep Formu.

Itiraz Konusu: Opposition Petition received from Turkish Patent Office for corresponding Turkish Application No. 2015/07944.

English Google machine Translation of Opposition Petition Itiraz Konusu.

Evidence Page included with Opposition: D0611970—Rock Drill Bit.

Australian Government Design Examination Report No. 1; Reference No. 171028; Design 20156038; ATLAS COPCO SECOROC AB; entitled ROCK DRILL BIT; dated Apr. 27, 2017.

Australian Government Certificate of Examination (Issuance), Reference No. 171028; Design 201516038; ATLAS COPCO SECOROC AB; entitled ROCK DRILL BIT; Registration No. 365591 dated Aug. 22, 2017.

Australian Government Design Examination Report No. 1; Reference No. 171029; Design 20156039; ATLAS COPCO SECOROC AB; entitled ROCK DRILL BIT; dated Apr. 27, 2017.

Australian Government Certificate of Examination (Issuance), Reference No. 171029; Design 201516039; ATLAS COPCO SECOROC AB; entitled ROCK DRILL BIT; Registration No. 365592 dated Aug. 22, 2017.

Australian Government Design Examination Report No. 1; Reference No. 171030; Design 20156040; ATLAS COPCO SECOROC AB; entitled ROCK DRILL BIT; dated Apr. 27, 2017.

Australian Government Certificate of Examination (Issuance), Reference No. 171030; Design 201516040; ATLAS COPCO SECOROC AB; entitled ROCK DRILL BIT; Registration No. 365593 dated Aug. 22, 2017.

* cited by examiner

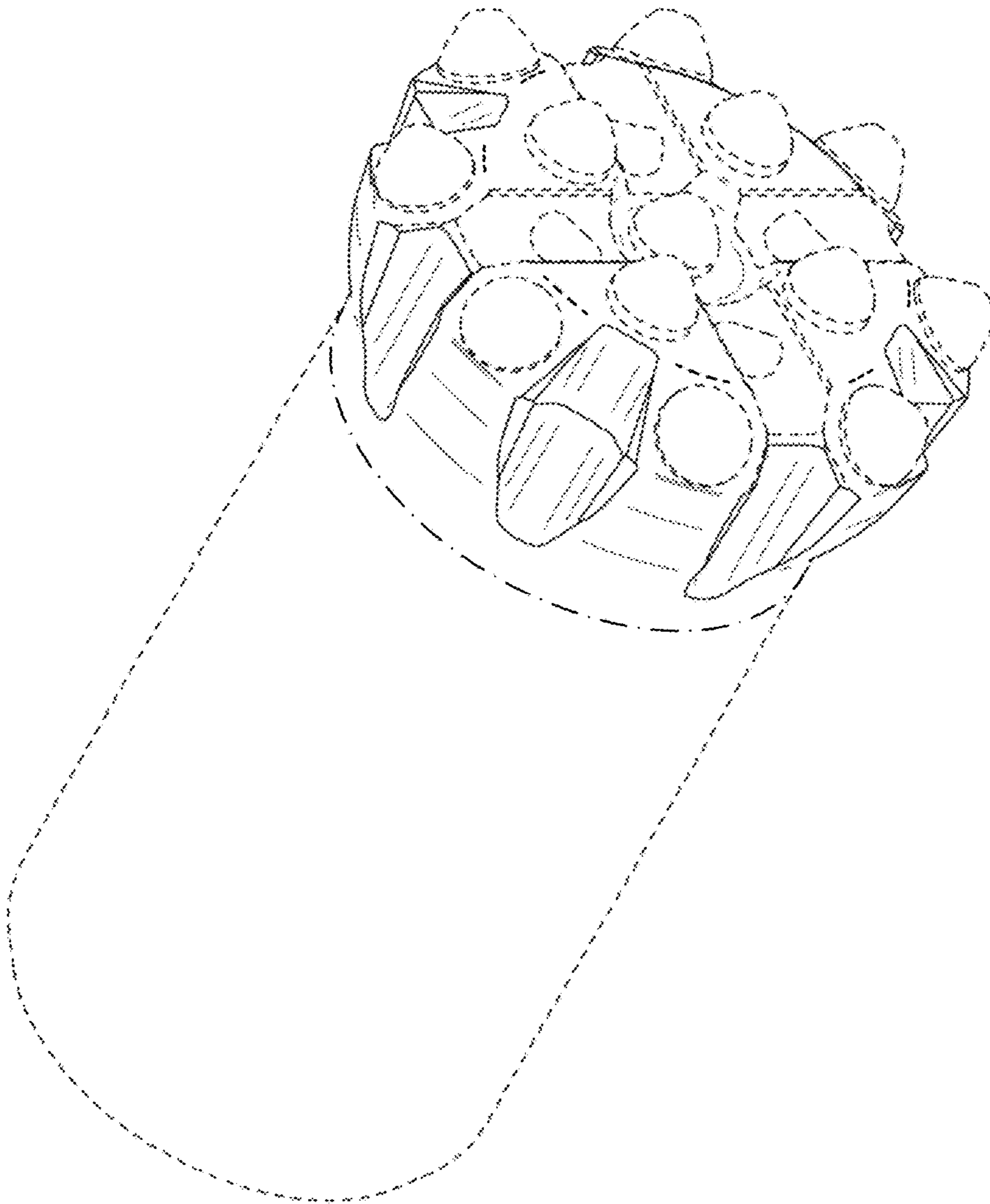


FIG. 1

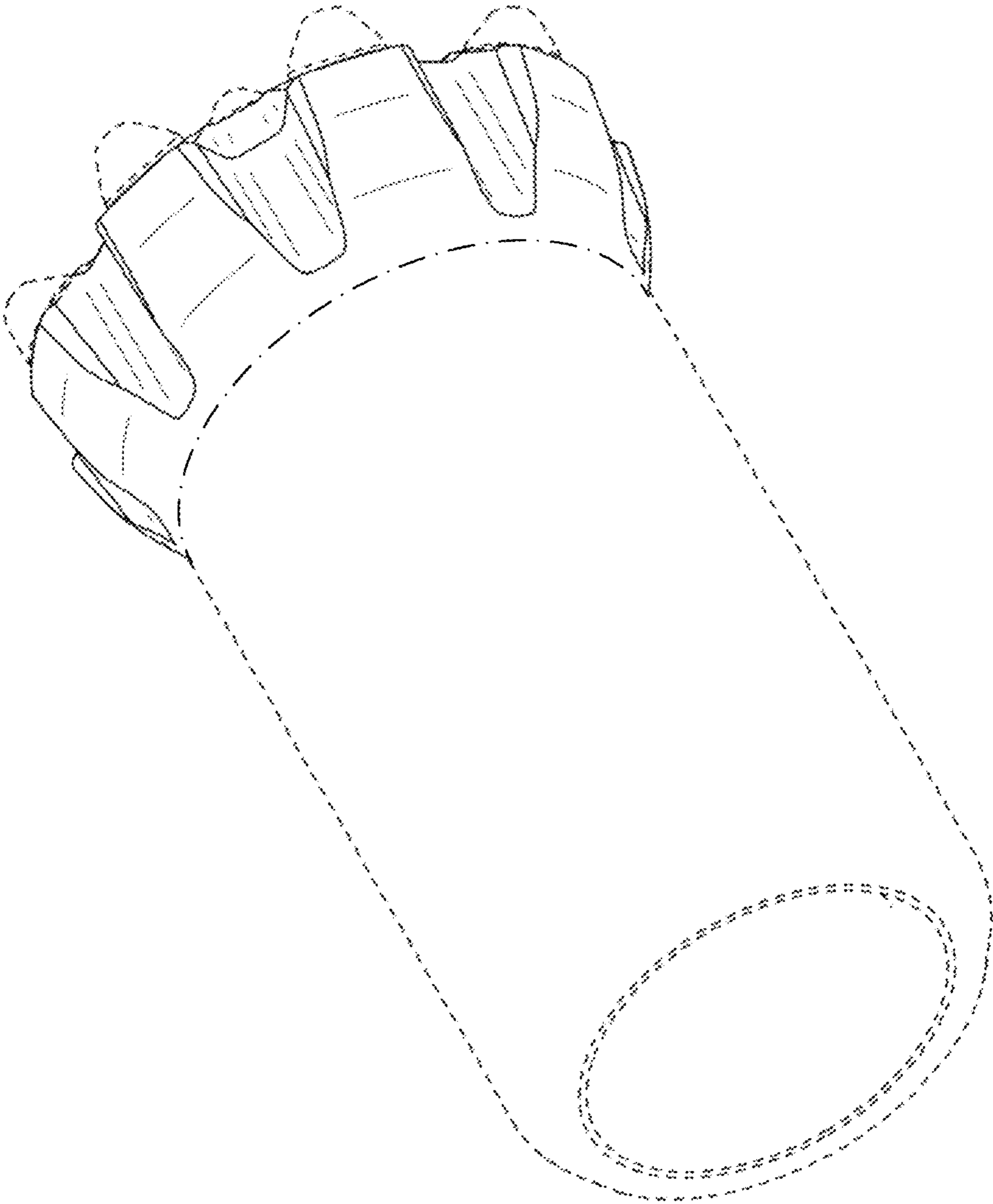


FIG. 2

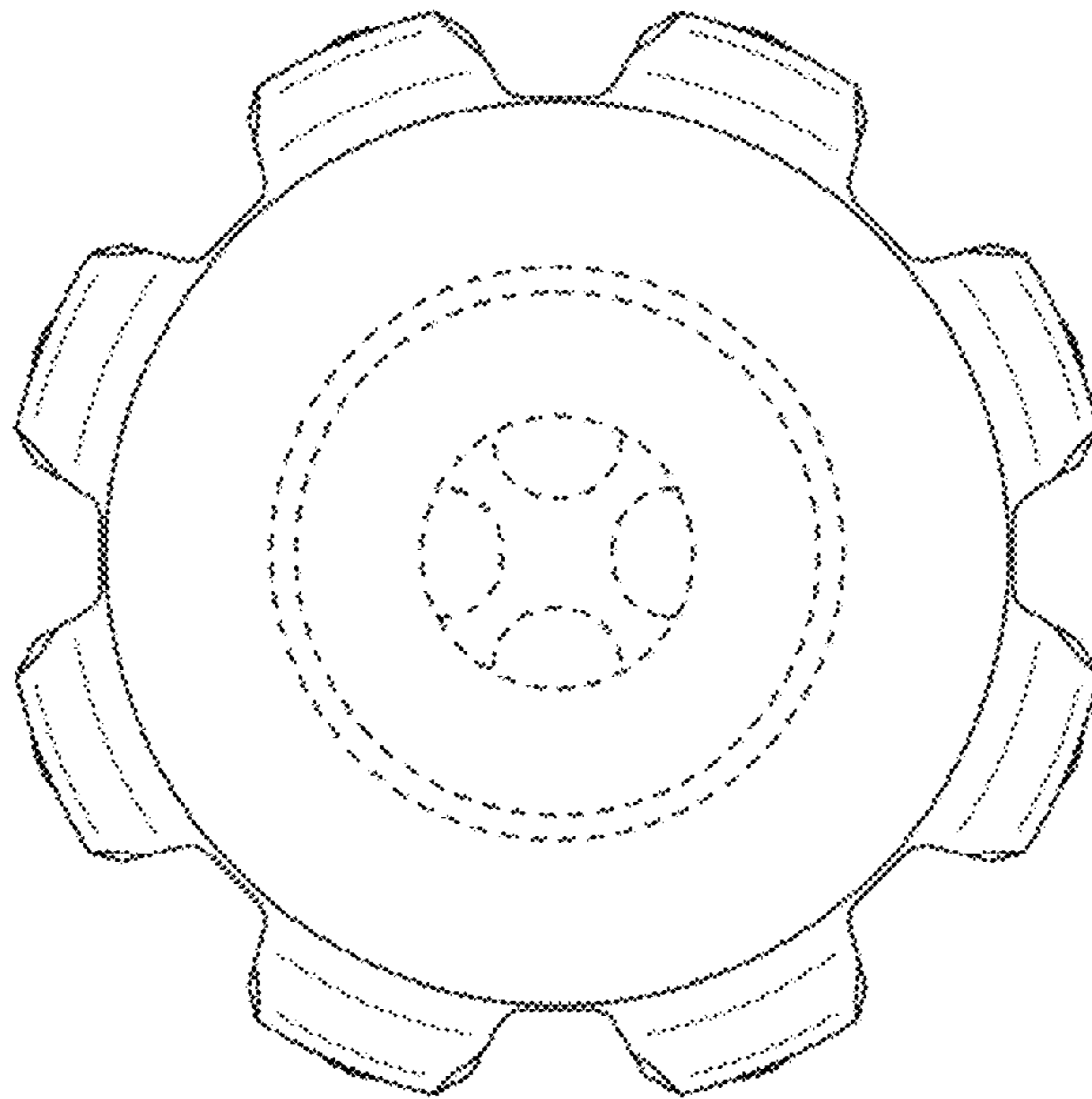


FIG. 3

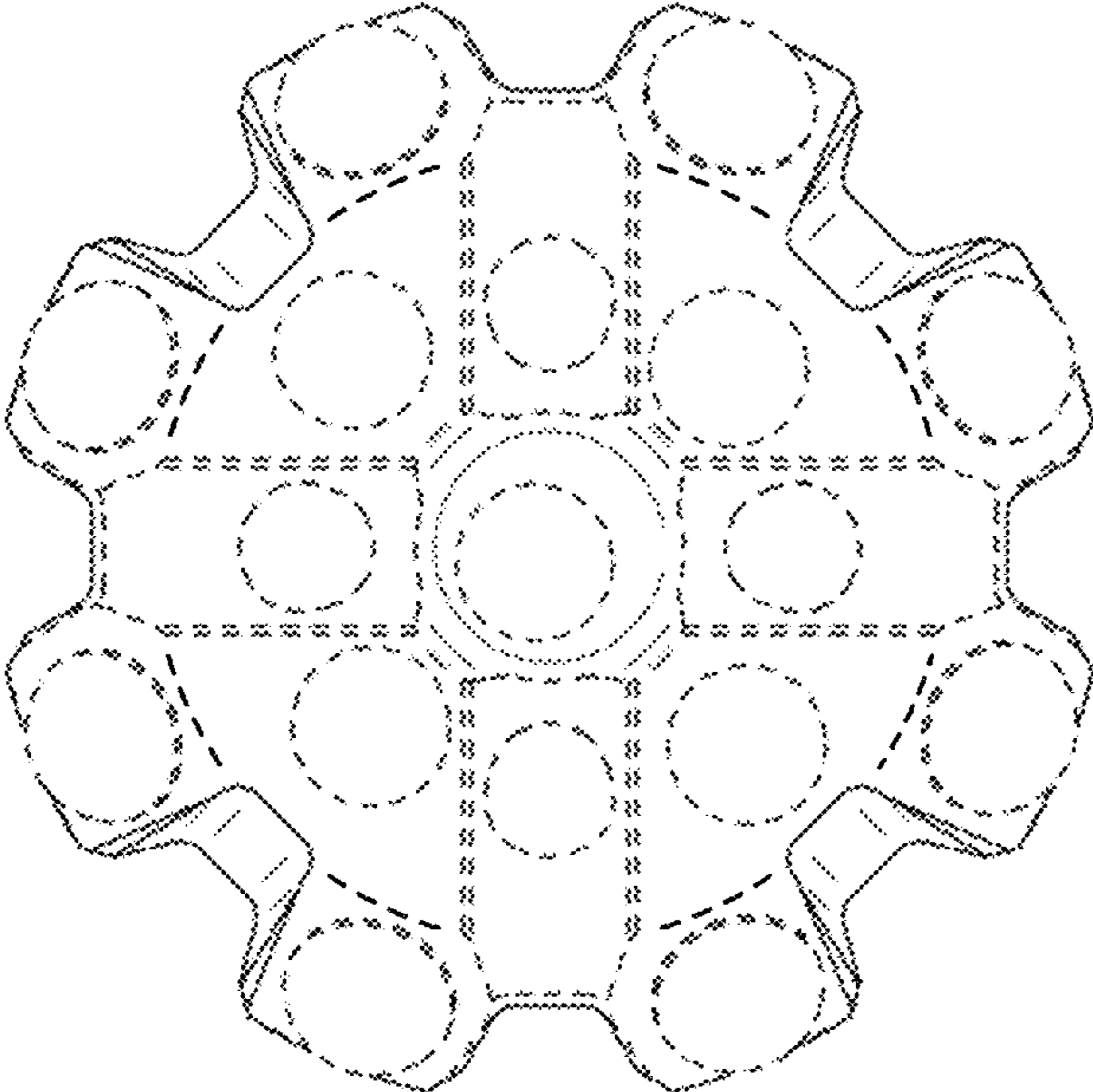


FIG. 4

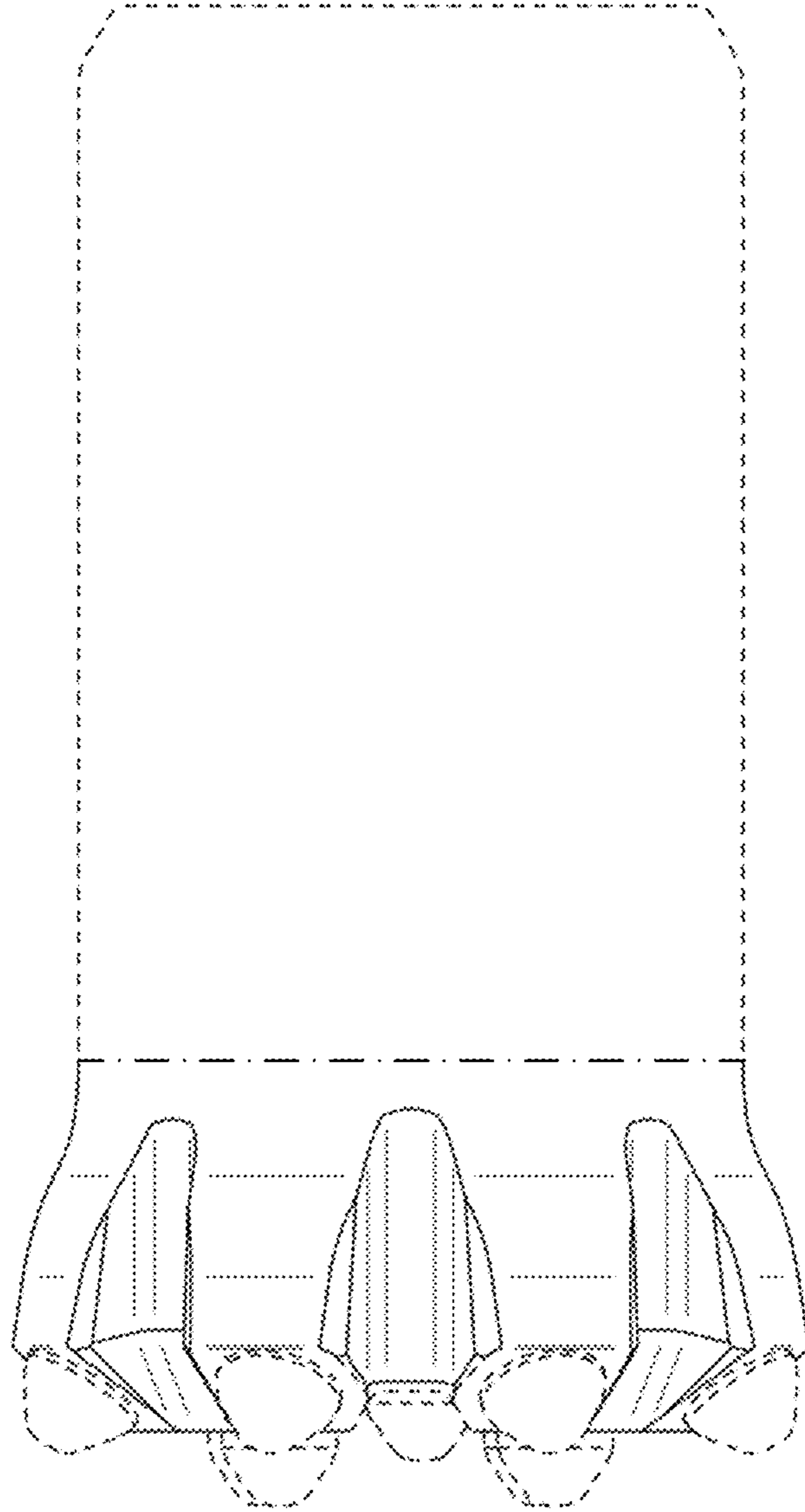


FIG. 5

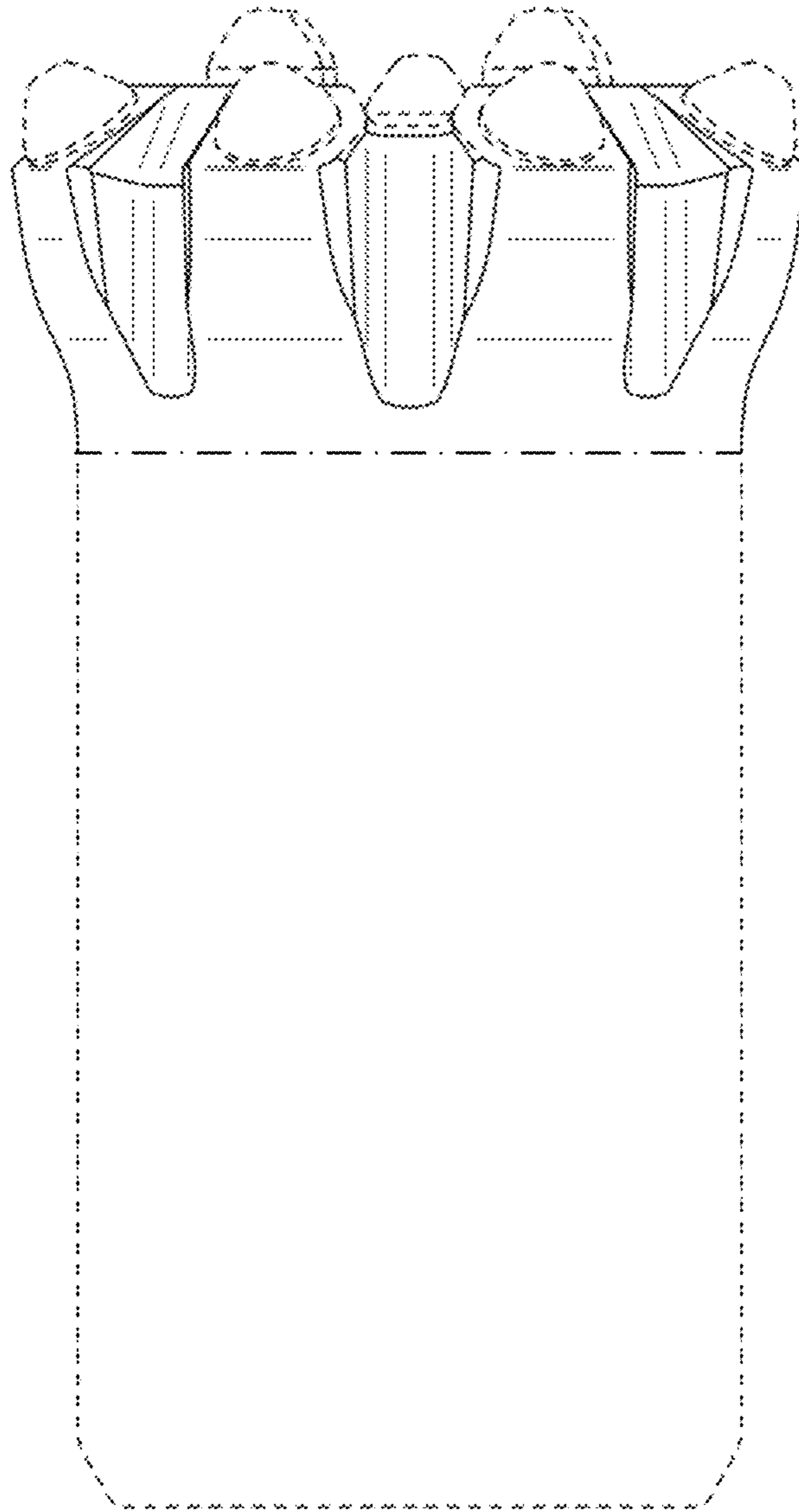


FIG. 6

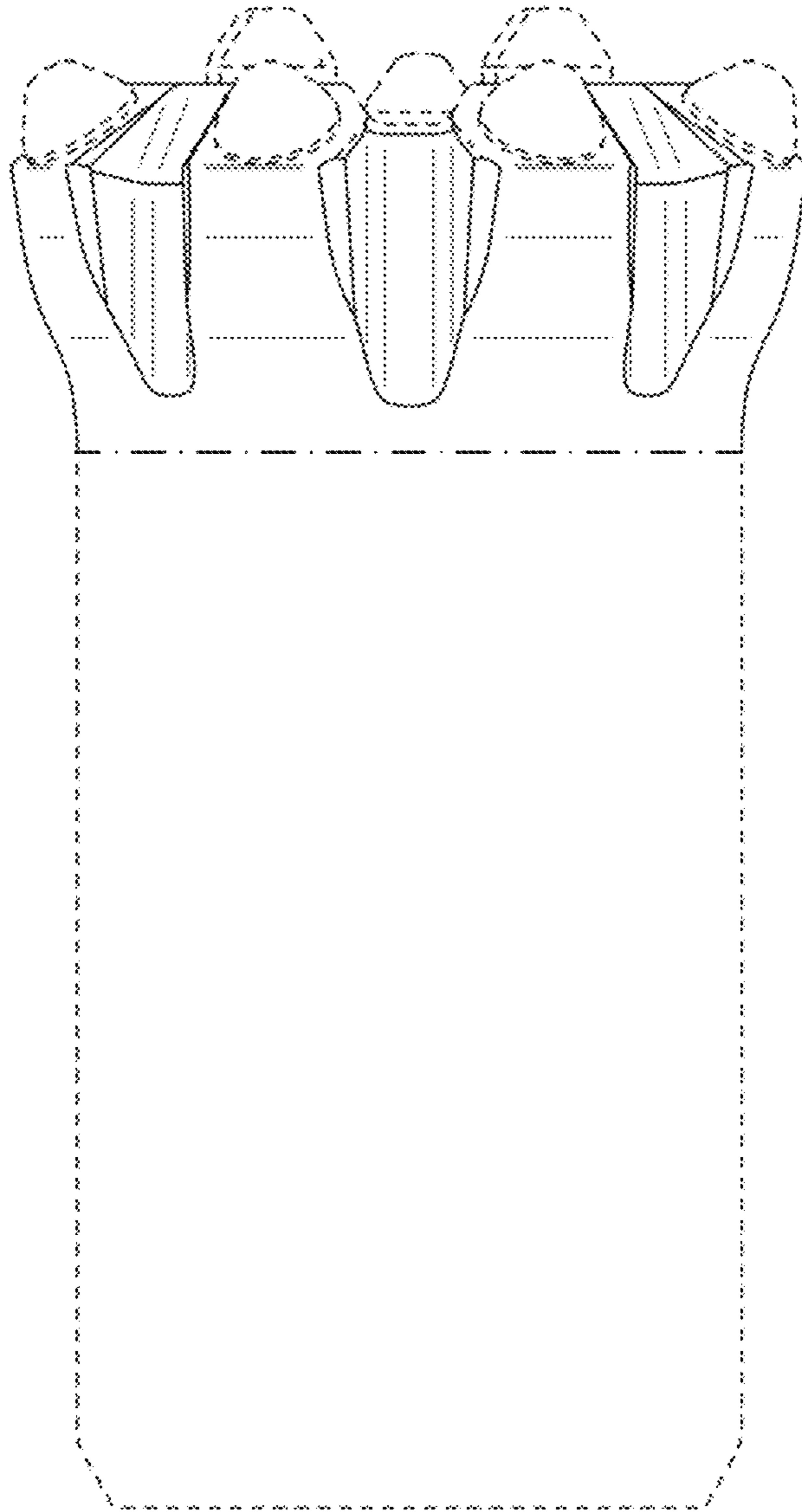


FIG. 7

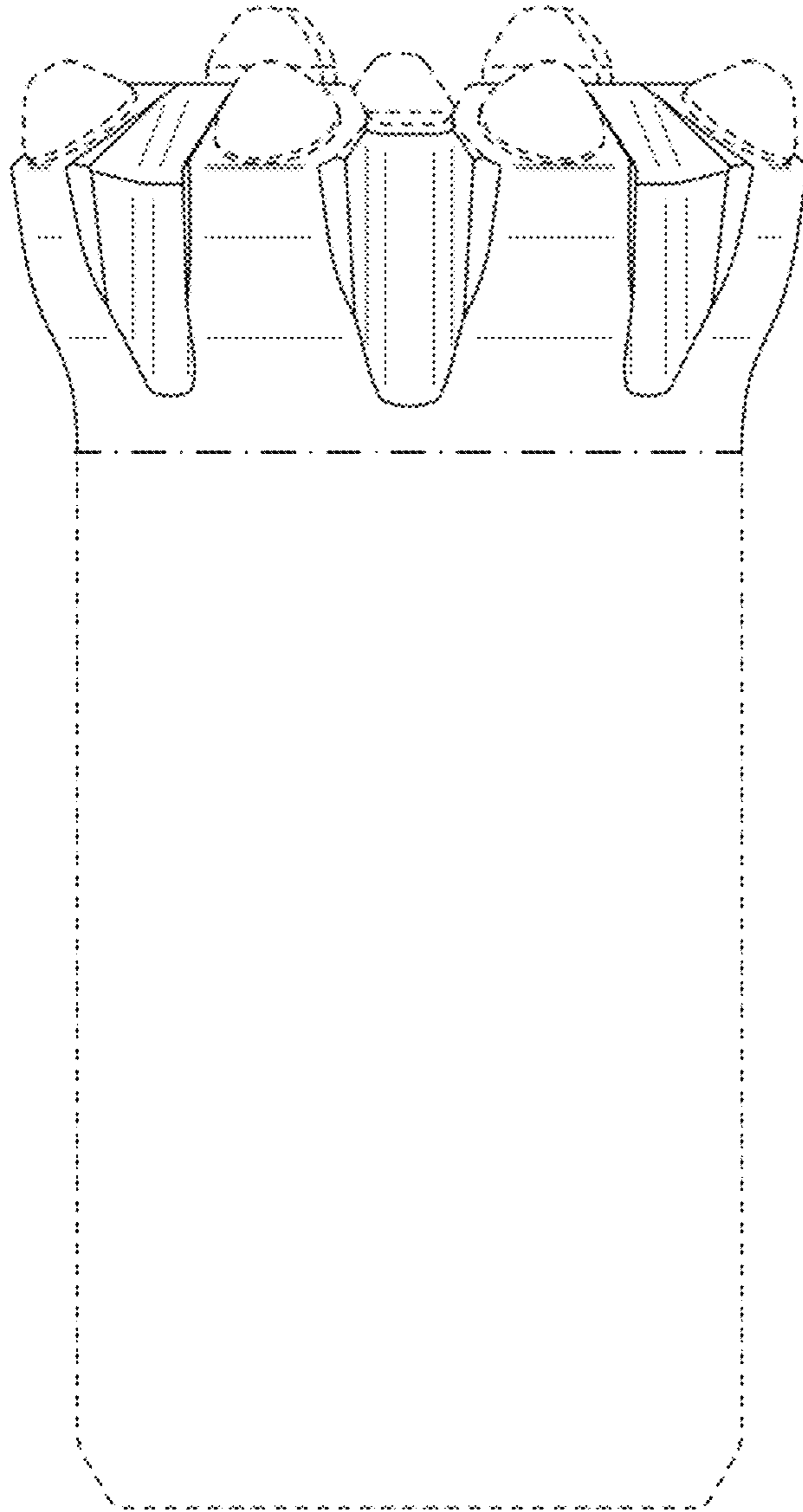


FIG. 8