



US00D921703S

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

(10) **Patent No.:** **US D921,703 S**

(45) **Date of Patent:** **** Jun. 8, 2021**

(54) **TRAIL CUTTER**

(71) Applicant: **The Charles Machine Works, Inc.,**
Perry, OK (US)

(72) Inventor: **Richard A. Willoughby,** Guthrie, OK
(US)

(73) Assignee: **The Charles Machine Works, Inc.,**
Perry, OK (US)

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

(21) Appl. No.: **29/714,020**

(22) Filed: **Nov. 20, 2019**

(51) **LOC (13) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/28; D15/29**

(58) **Field of Classification Search**
USPC D15/29, 28, 17, 138, 139
CPC E21B 10/003; E21B 10/26; E21B 10/60;
E21B 10/602; E21B 10/55; E21B
17/1092

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 2,017,816 A * 10/1935 MacFadyen E02F 3/9293
37/327
- 4,397,361 A * 8/1983 Langford, Jr. E21B 10/567
175/428
- 5,881,829 A * 3/1999 Dimond E21B 10/16
175/378
- 5,992,547 A * 11/1999 Caraway E21B 10/003
175/385
- 7,647,712 B2 * 1/2010 Tack E02F 3/9212
37/328
- D626,979 S * 11/2010 Anderson D15/139
- 8,783,386 B2 * 7/2014 Durairajan E21B 10/43
175/408
- 9,145,740 B2 * 9/2015 Durairajan E21B 10/43

- 2008/0179108 A1 * 7/2008 McClain E21B 10/55
175/431
- 2009/0056173 A1 * 3/2009 Tack E02F 3/9212
37/323
- 2010/0300673 A1 * 12/2010 Richert E21B 10/55
166/55.2
- 2011/0000714 A1 * 1/2011 Durairajan E21B 10/43
175/57
- 2014/0102798 A1 * 4/2014 Durairajan E21B 10/55
175/57

(Continued)

Primary Examiner — Mark A Goodwin

(74) *Attorney, Agent, or Firm* — Tomlinson McKinstry,
P.C.

(57) **CLAIM**

The ornamental design for a trail cutter, as shown and described.

DESCRIPTION

FIG. 1 is a left front perspective view of the ornamental design of a trail cutter, shown with an attachment structure in broken line.

FIG. 2 is a left side view thereof.

FIG. 3 is a front view thereof.

FIG. 4 is a top view thereof.

FIG. 5 is front view of the trail cutter with the depiction of environmental structure truncated such that the unobscured design can be clearly seen.

FIG. 6 is a back view thereof.

FIG. 7 is a top view thereof. The back side of the trail cutter is oriented at the top of FIG. 7.

FIG. 8 is a bottom view thereof. The back side of the trail cutter is oriented at the top of FIG. 8.

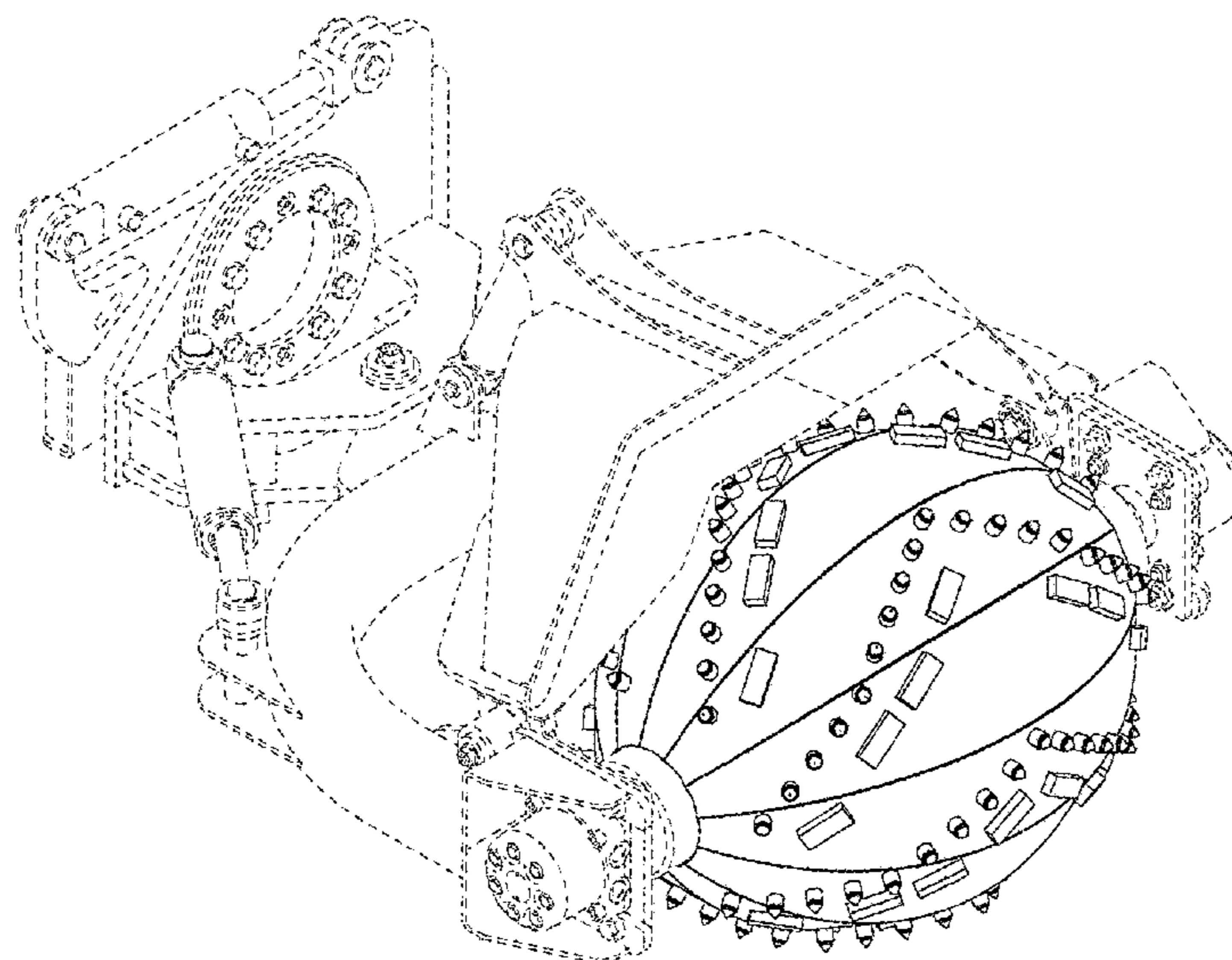
FIG. 9 is a left side view thereof.

FIG. 10 is a right side view thereof; and,

FIG. 11 is a front top left perspective view thereof.

The broken line elements are included for the purposes of illustrating portions of the trail cutter and environmental structure, and form no part of the claimed design.

1 Claim, 11 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2017/0130534 A1* 5/2017 Nguyen E21B 10/55
2018/0338421 A1* 11/2018 Christian E02F 3/3663
2020/0087990 A1* 3/2020 Duffy E21B 10/43

* cited by examiner

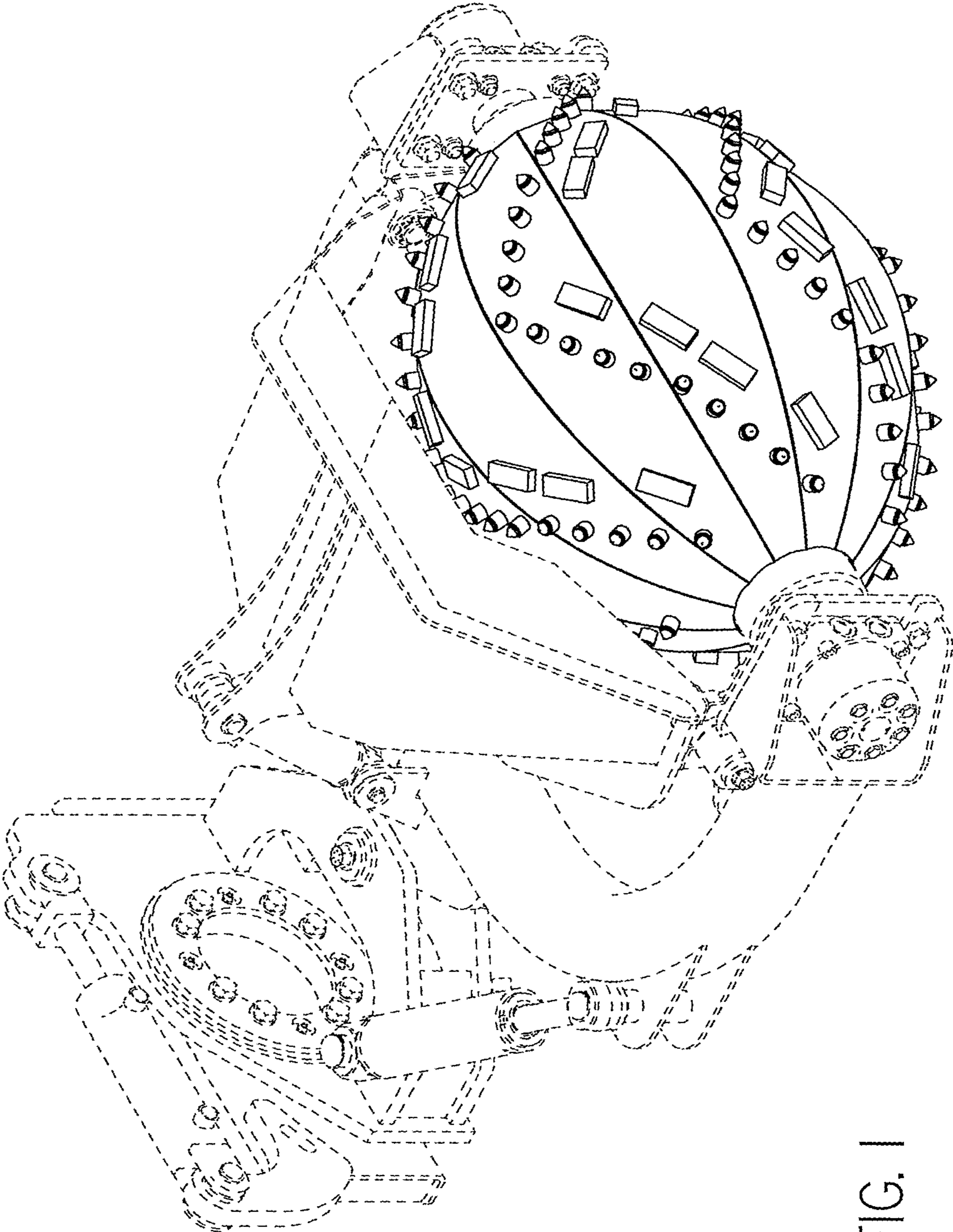


FIG. 1

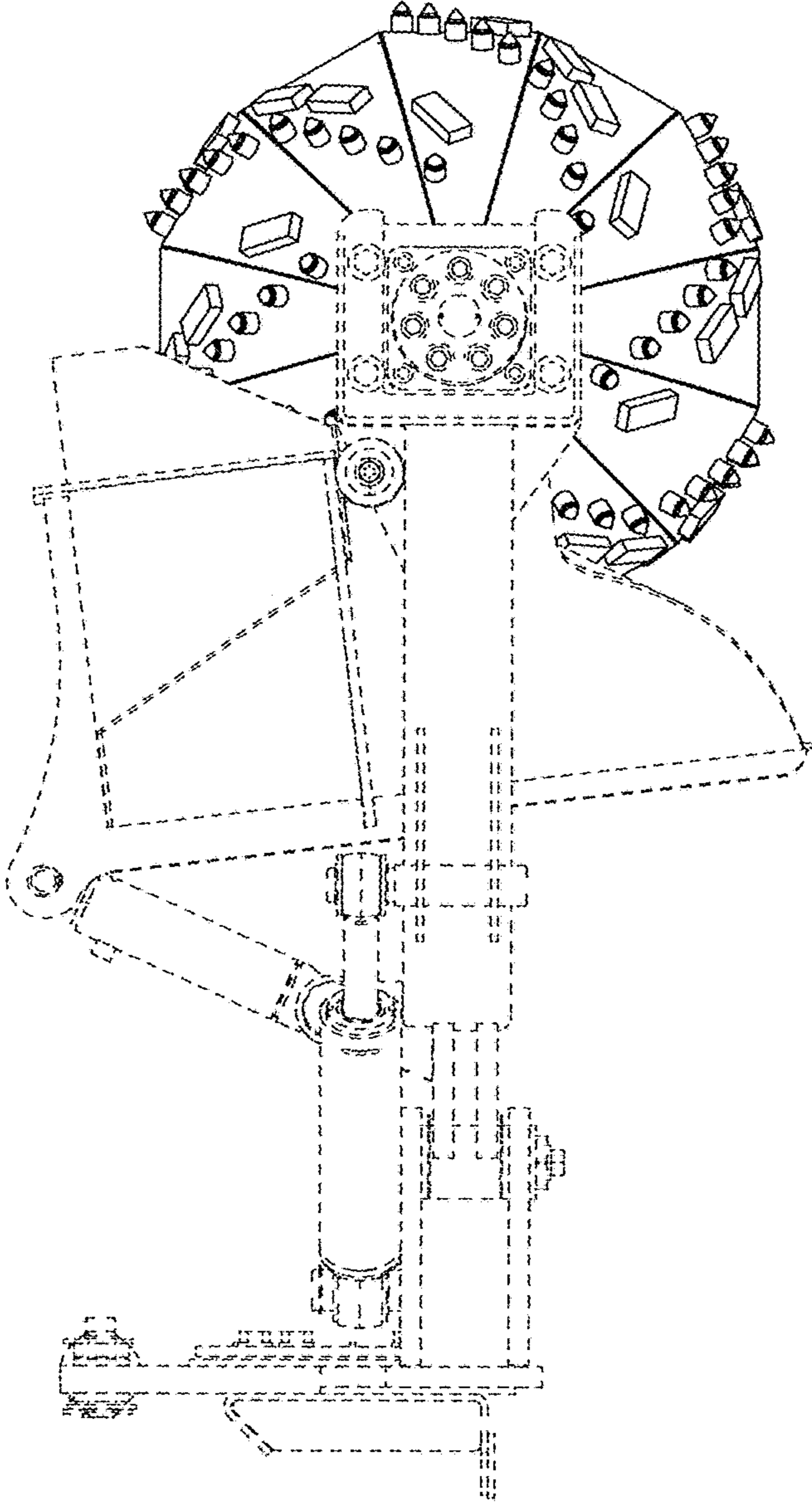


FIG. 2

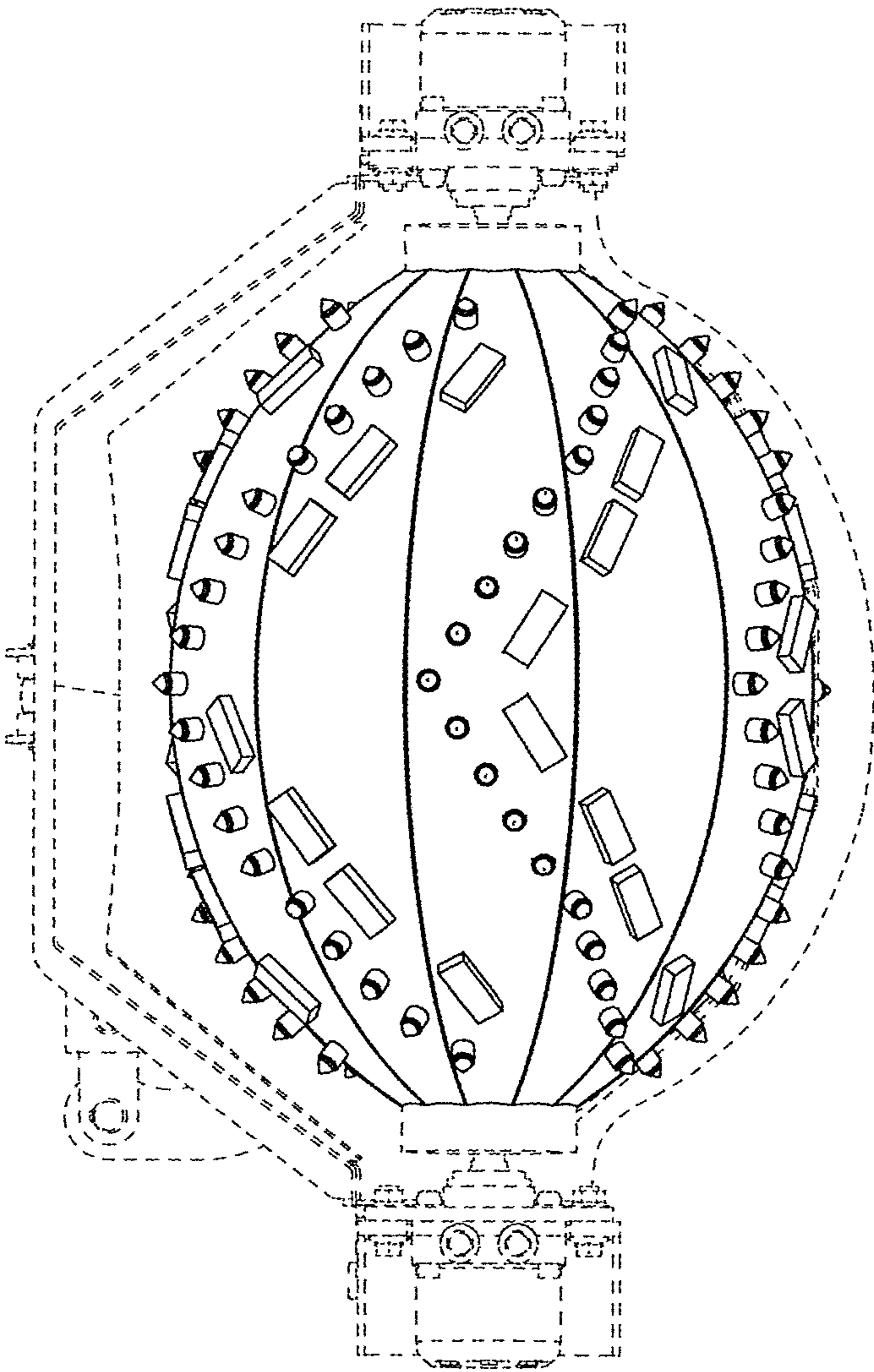


FIG. 3

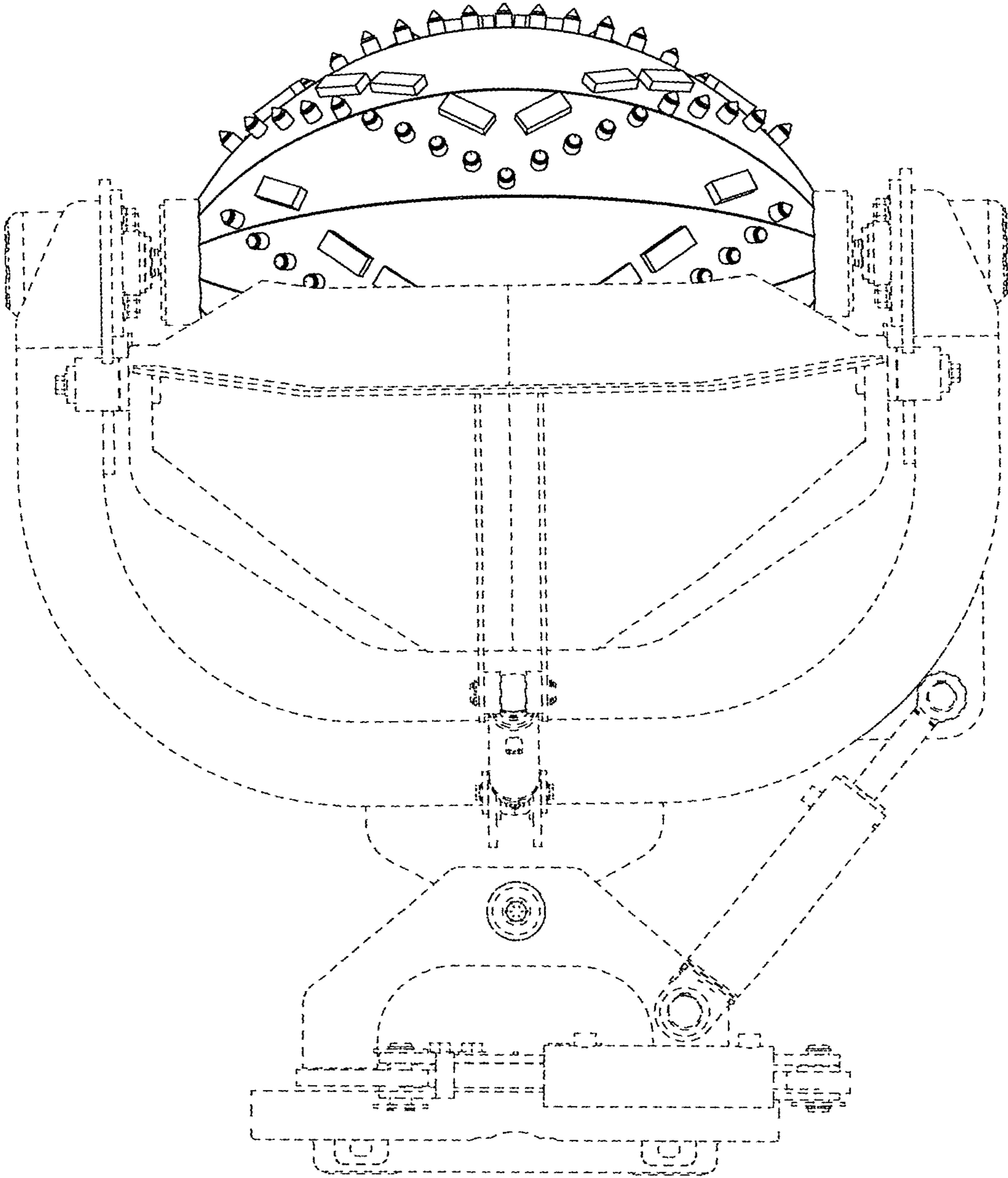


FIG. 4

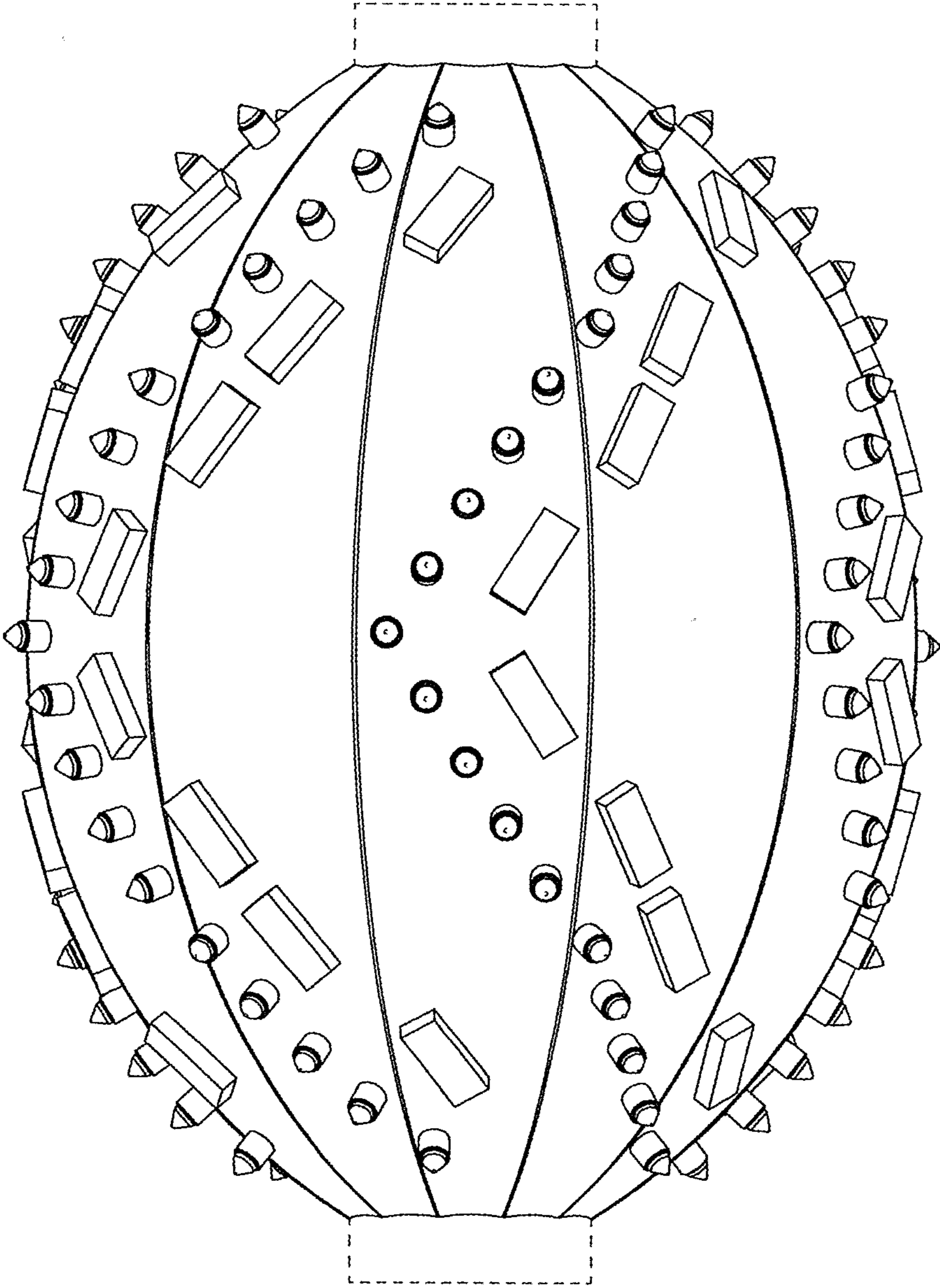


FIG. 5

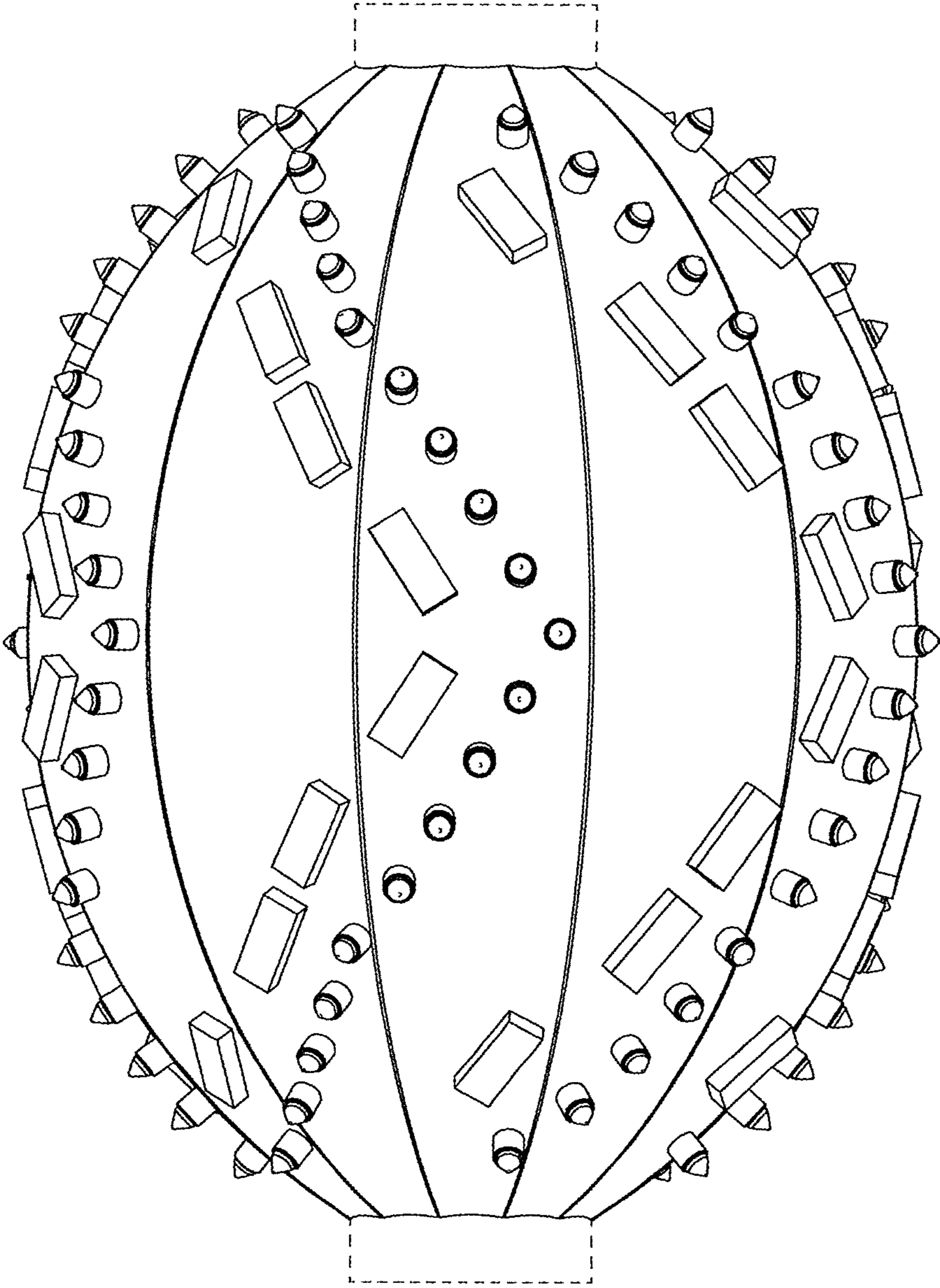


FIG. 6

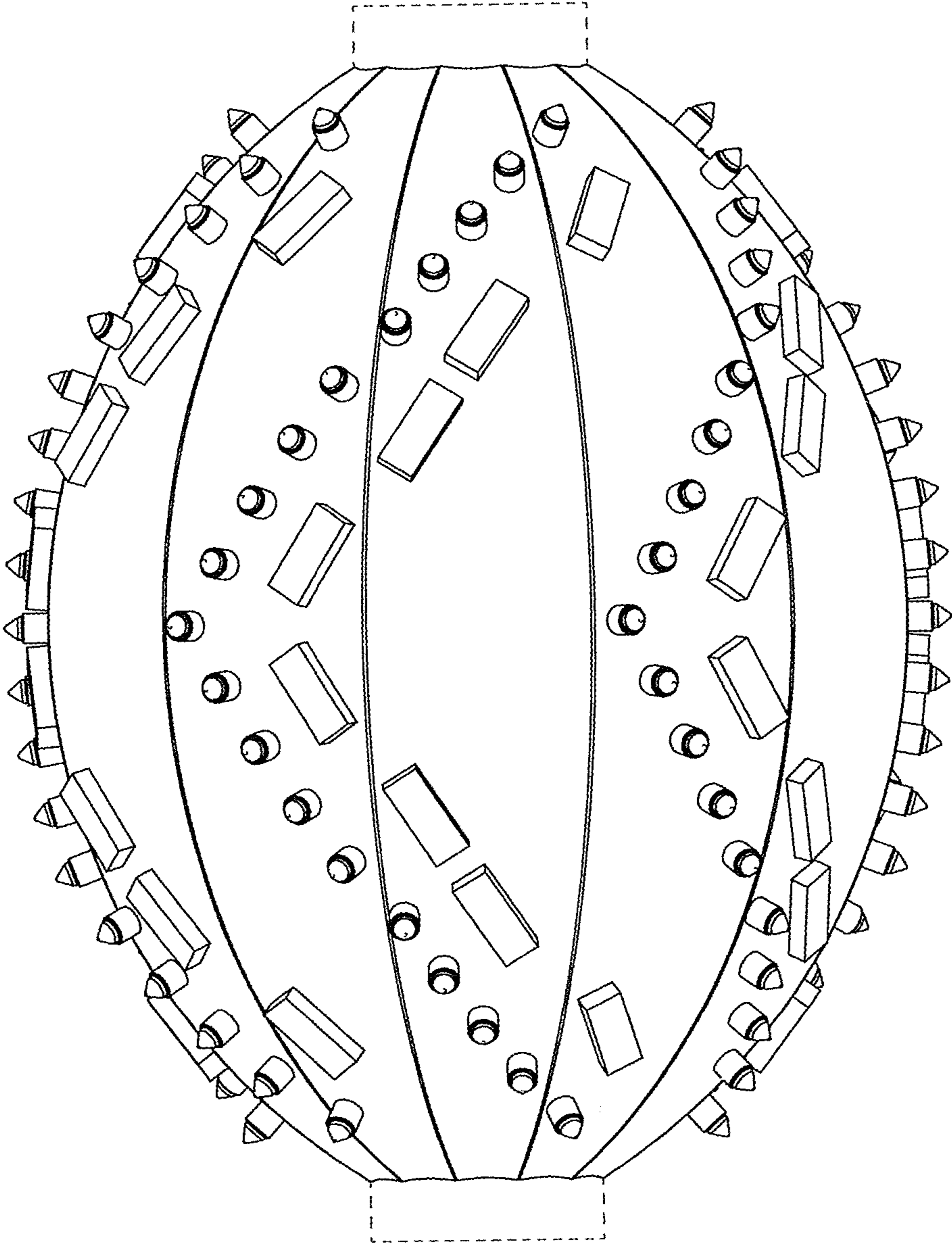


FIG. 7

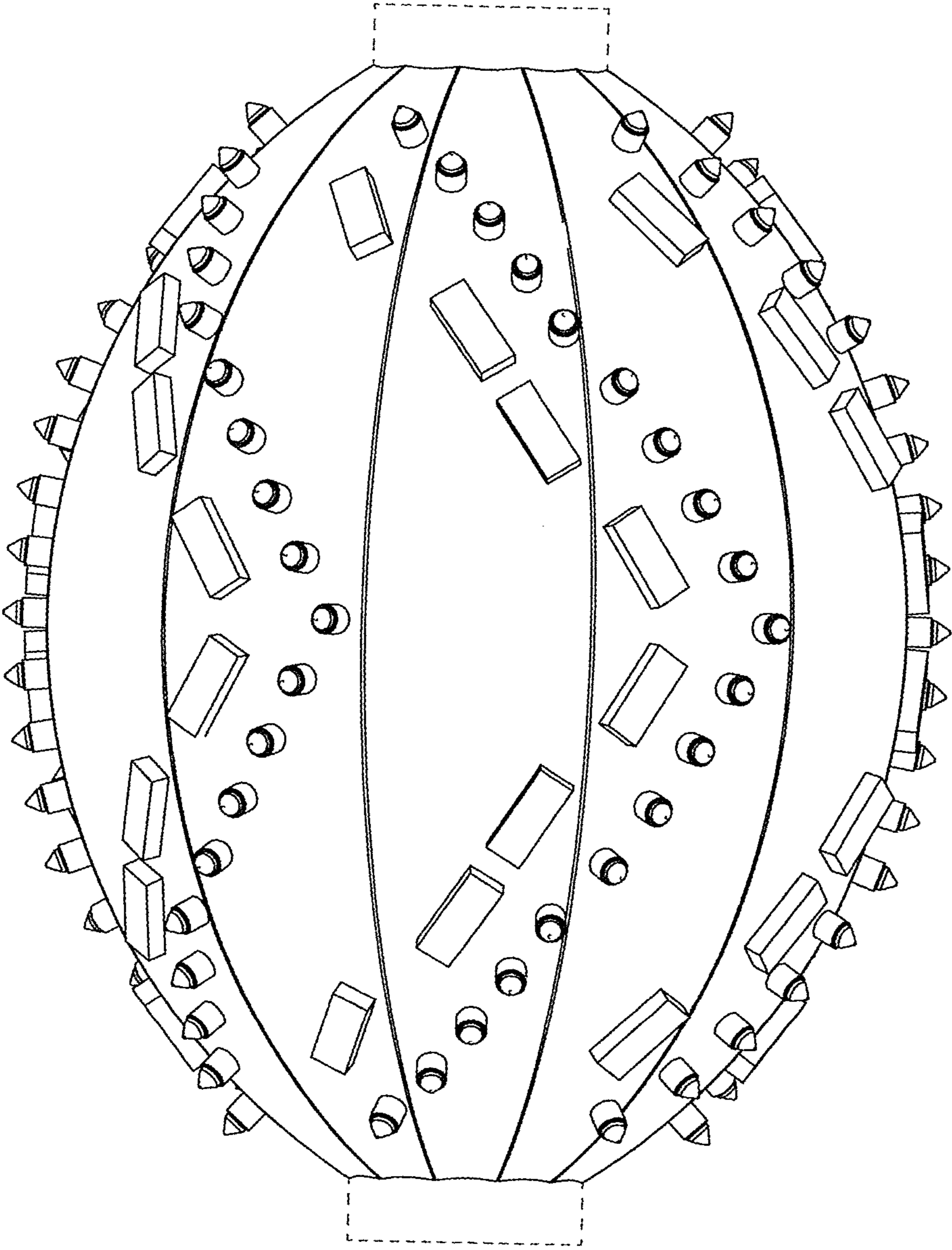


FIG. 8

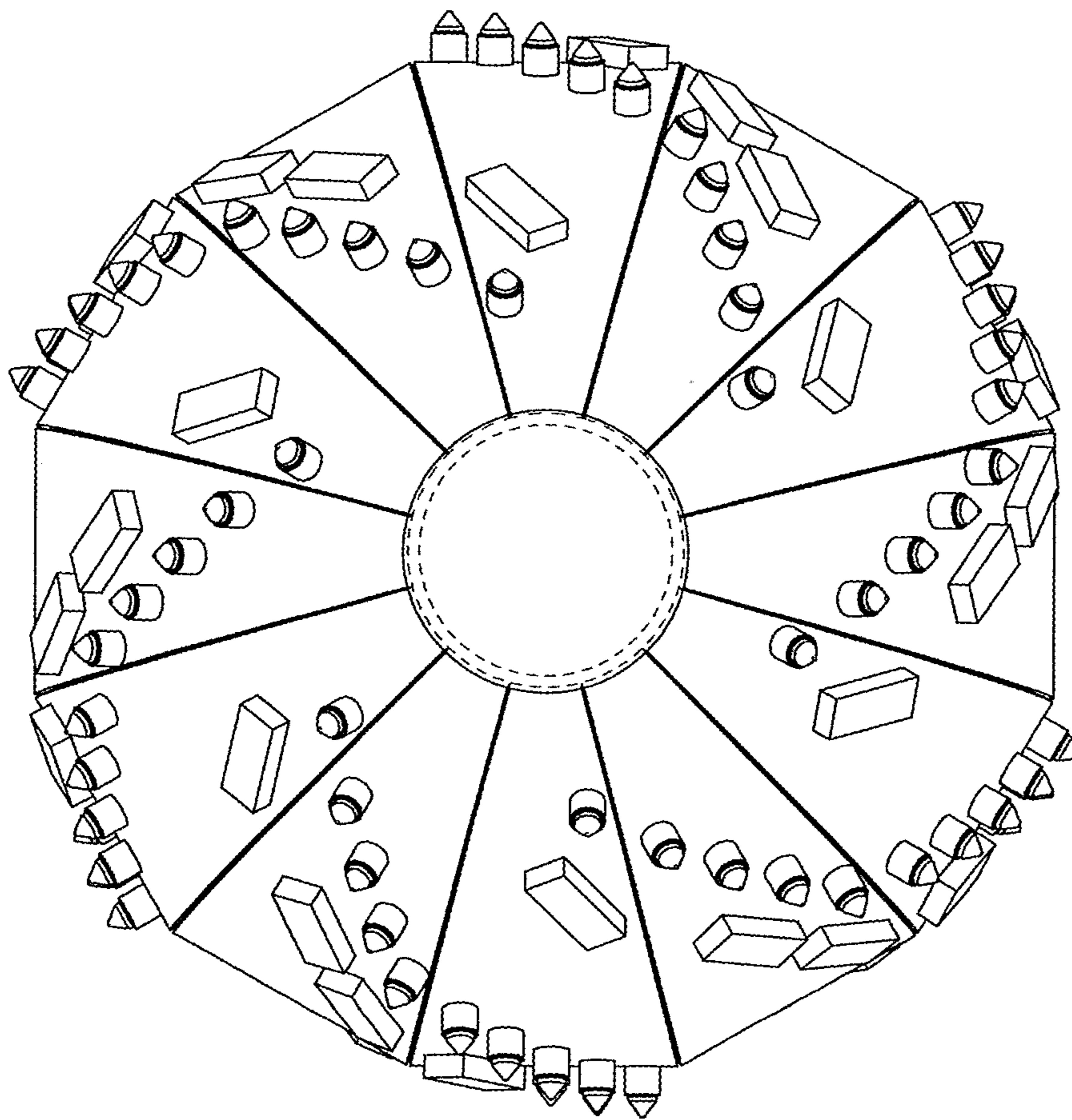


FIG. 9

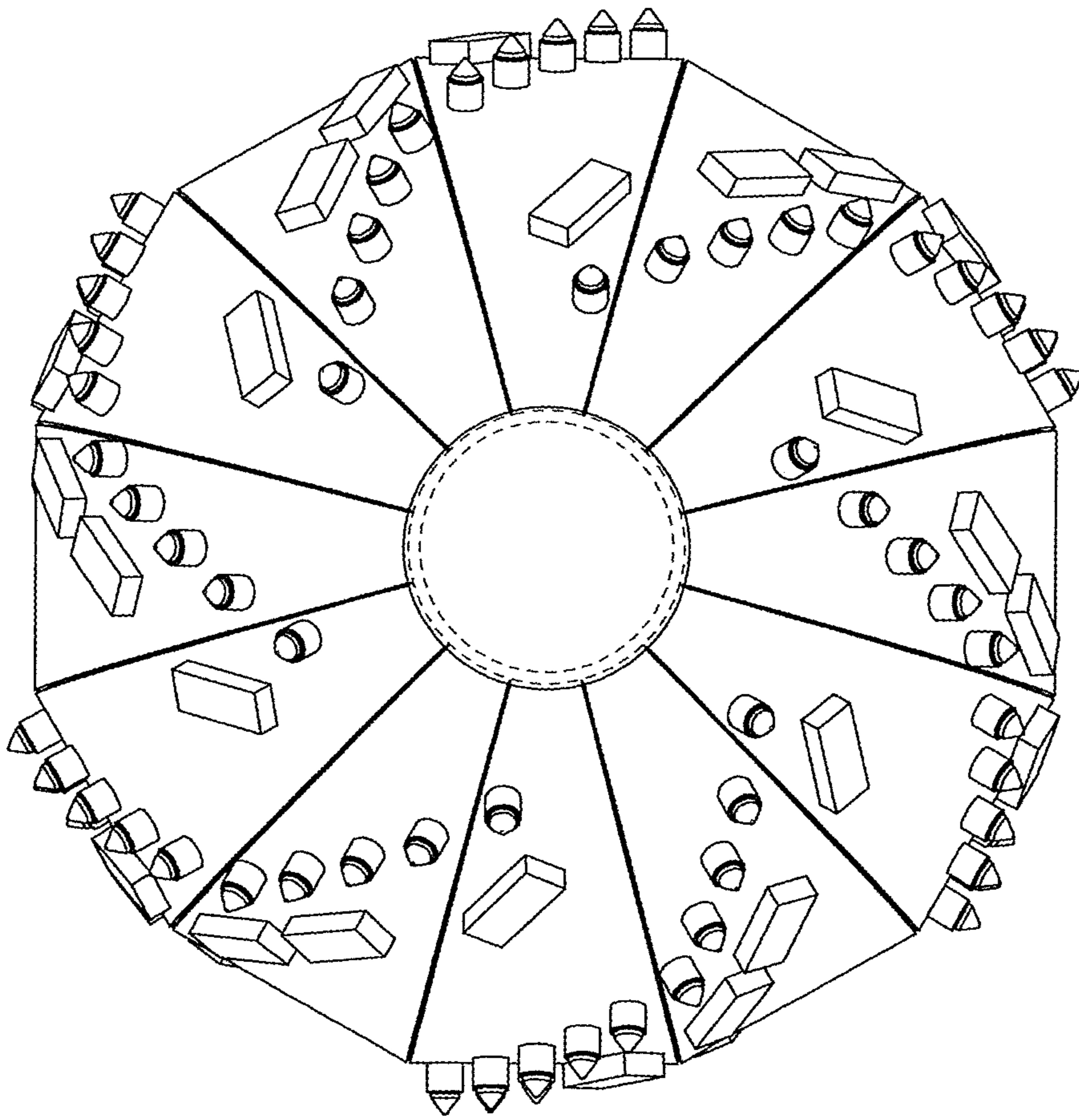


FIG. 10

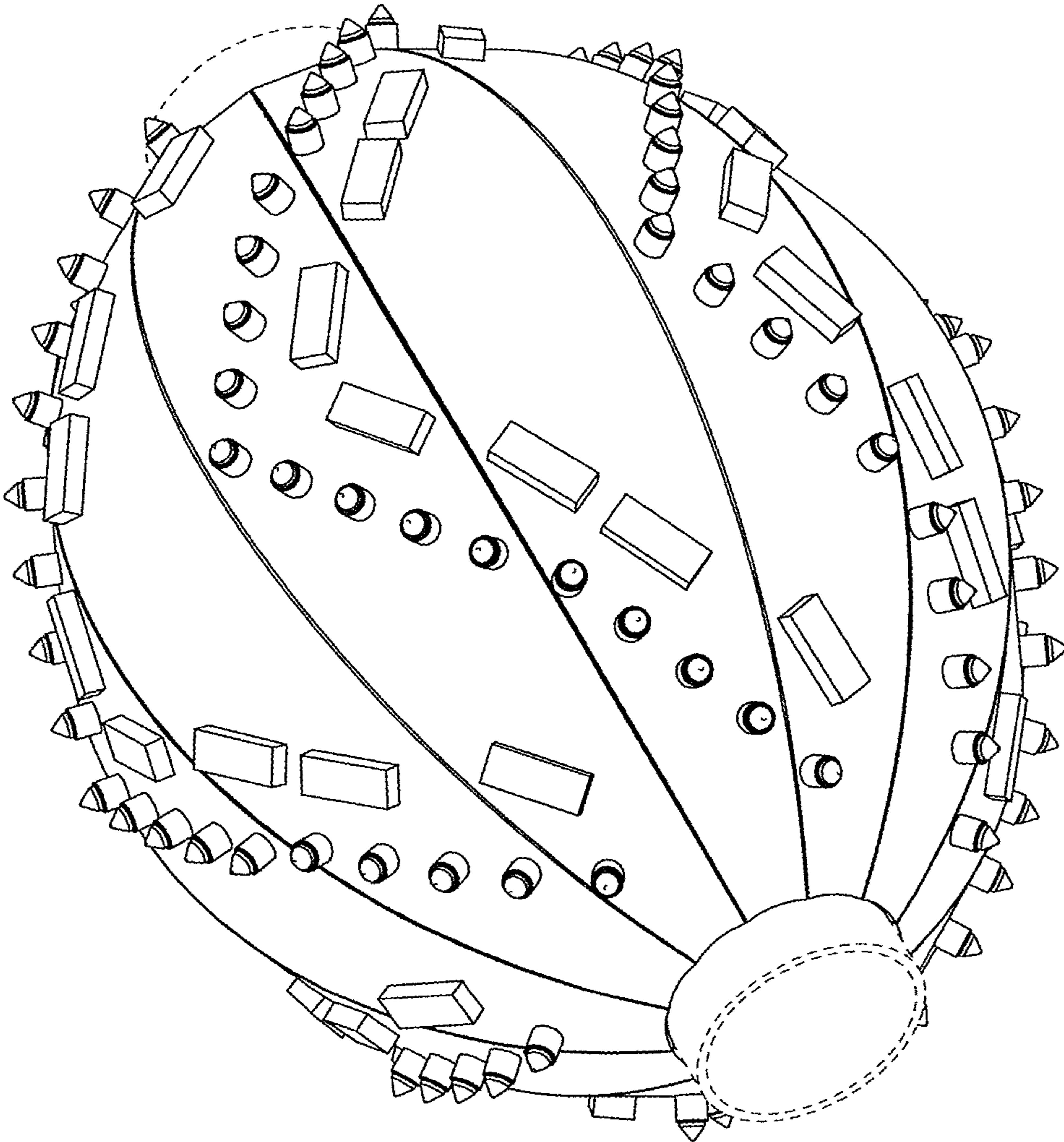


FIG. 11