



US00D913616S

(12) **United States Design Patent** (10) **Patent No.:** **US D913,616 S**
Bosyj et al. (45) **Date of Patent:** **** Mar. 16, 2021**

(54) **BRUSH FOR A CLEANING DEVICE**
(71) Applicant: **TTI (MACAO COMMERCIAL OFFSHORE) LIMITED**, Macau (MO)

D222,702 S * 12/1971 Schaefer D32/31
4,209,873 A 7/1980 Schaefer
5,239,721 A 8/1993 Zahuranec
(Continued)

(72) Inventors: **Nick M. Bosyj**, Charlotte, NC (US);
Christopher B. Gilbert, Harrisburg, NC (US);
Bradley Hooley, Charlotte, NC (US);
Don Lydic, Mooresville, NC (US);
John Morphej, Concord, NC (US)

FOREIGN PATENT DOCUMENTS

CN 2574576 9/2003
CN 204427936 7/2015
(Continued)

(73) Assignee: **Techtronic Floor Care Technology Limited**, Tortola (VG)

Primary Examiner — Michelle E. Wilson
Assistant Examiner — Richard E Yenchesky
(74) *Attorney, Agent, or Firm* — Michael Best & Friedrich LLP

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

(57) **CLAIM**

(21) Appl. No.: **29/722,346**

The ornamental design for a brush for a cleaning device, as shown and described.

(22) Filed: **Jan. 29, 2020**

DESCRIPTION

Related U.S. Application Data

(62) Division of application No. 29/625,770, filed on Nov. 13, 2017, now Pat. No. Des. 878,692.

(51) **LOC (13) Cl.** **15-05**

(52) **U.S. Cl.**
USPC **D32/31**

(58) **Field of Classification Search**
USPC D4/122, 127, 128, 131, 132, 133, 136;
D32/31, 32, 33
CPC . A47L 11/401; A47L 5/30; A47L 5/32; A47L 5/36;
A47L 9/0477; A47L 9/24; A47L 9/242; A47L 9/248;
F16L 11/04; F16L 11/11; F16L 11/15

See application file for complete search history.

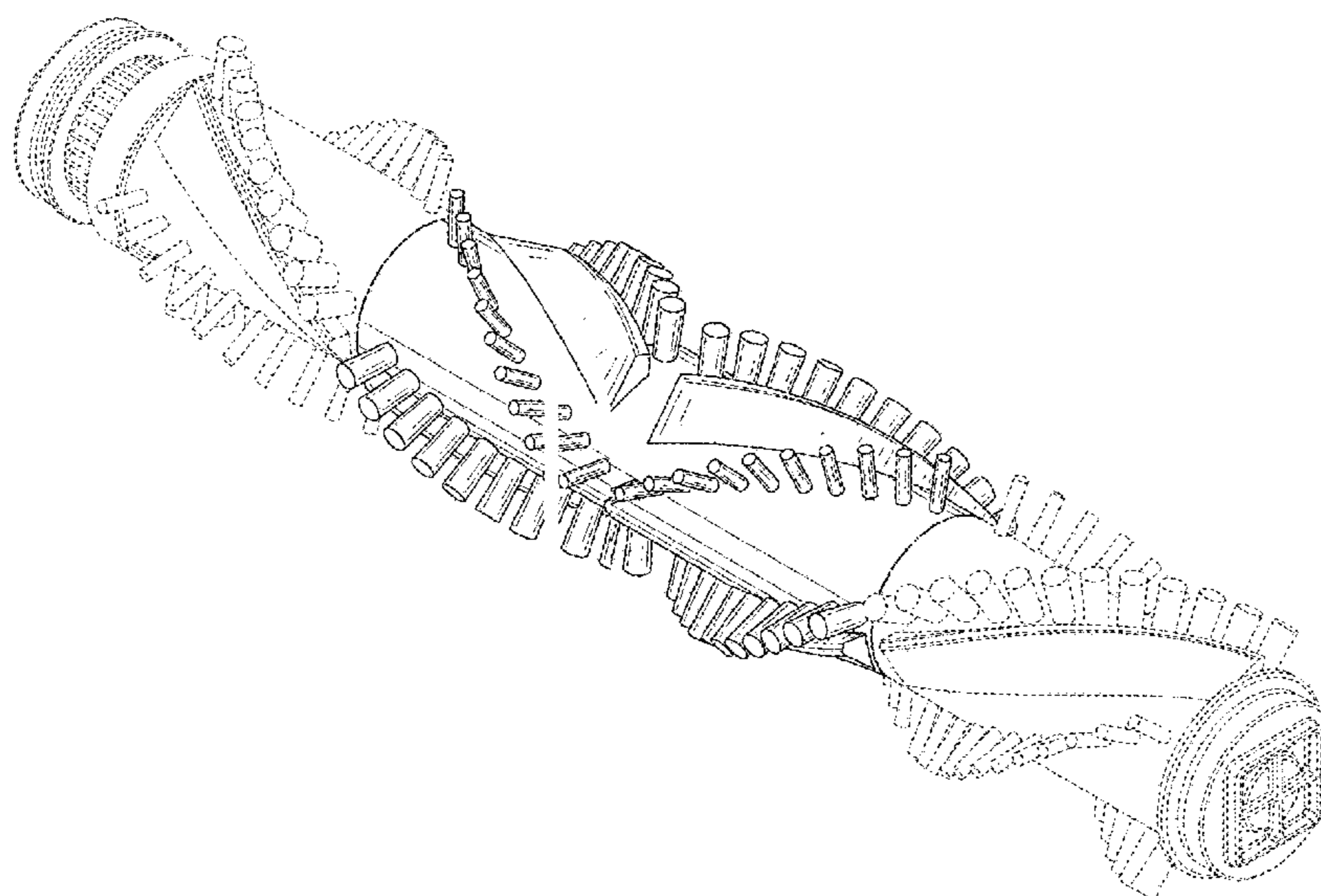
(56) **References Cited**

U.S. PATENT DOCUMENTS

1,815,084 A 7/1931 White
1,886,129 A 11/1932 Smellie

FIG. 1 is a perspective view of a brush for a cleaning device according to an embodiment of the invention.
FIG. 2 is a first side view of the brush for a cleaning device of FIG. 1.
FIG. 3 is a second side view of the brush for a cleaning device of FIG. 1.
FIG. 4 is a third side view of the brush for a cleaning device of FIG. 1.
FIG. 5 is a fourth side view of the brush for a cleaning device of FIG. 1.
FIG. 6 is a first end view of the brush for a cleaning device of FIG. 1; and,
FIG. 7 is a second end view of the brush for a cleaning device of FIG. 1.
The elements shown in broken lines form no part of the claimed design and are included for the purpose of showing the environment of the claimed design. Any broken lines having unequal line segments indicate the boundary of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,495,634 A * 3/1996 Brundula A47L 5/30
15/179
D431,698 S 10/2000 Hoshide
6,314,611 B1 * 11/2001 Sauers A47L 9/0455
15/376
6,463,623 B2 10/2002 Ahn
D471,332 S * 3/2003 Haegermarck D32/31
6,530,106 B1 * 3/2003 Brundula A46B 13/001
15/179
D478,698 S * 8/2003 Mertes D32/31
D518,258 S * 3/2006 Hamm D32/31
7,185,396 B2 3/2007 Im et al.
D647,265 S * 10/2011 Follows D32/31
D680,287 S * 4/2013 Morgan D32/31
D680,289 S * 4/2013 Gray D32/31
D681,291 S 4/2013 Morgan
D699,010 S * 2/2014 Gilbert, Jr. D32/31
D716,510 S * 10/2014 Gilbert, Jr. D32/31
D728,877 S * 5/2015 Therrien D32/31
D747,052 S * 1/2016 Therrien D32/31
D761,507 S 7/2016 Heck
D785,883 S * 5/2017 Wennerstrom D32/31
D790,785 S * 6/2017 Courtney D32/31
D796,134 S * 8/2017 LaBarbera D32/31
9,750,383 B2 9/2017 Janzen
D809,219 S * 1/2018 Wright A46B 5/02
D30/160
9,883,779 B2 * 2/2018 Kasper A47L 9/0477
9,999,330 B2 6/2018 Fang

10,034,588 B2 7/2018 Kasper et al.
D841,268 S * 2/2019 Ebrahimi Afrouzi D32/31
D843,733 S * 3/2019 Chavana, Jr. D4/128
D849,345 S 5/2019 Thorne
D850,039 S * 5/2019 Dou D32/31
D855,333 S * 8/2019 Ando D4/128
D878,692 S * 3/2020 Bosyj D32/31
2004/0111827 A1 6/2004 Im et al.
2005/0039282 A1 2/2005 Paterson et al.
2008/0244852 A1 * 10/2008 Alton A46B 13/02
15/179
2015/0342429 A1 12/2015 Rukavina
2015/0342430 A1 12/2015 Kasper et al.
2015/0374187 A1 12/2015 Denhof
2016/0278595 A1 9/2016 Shim et al.
2017/0311767 A1 * 11/2017 Fang A47L 11/19
2018/0168417 A1 * 6/2018 Goddard A47L 11/24
2019/0122914 A1 * 4/2019 Eckstein H01L 21/67057
2019/0145459 A1 * 5/2019 Magnusson F16C 41/001
384/548

FOREIGN PATENT DOCUMENTS

CN	205251419	5/2016
CN	205513160	8/2016
CN	105919513	9/2016
CN	106343922	1/2017
CN	206007154	3/2017
WO	2012140870	10/2012
WO	2016008763	1/2016

* cited by examiner

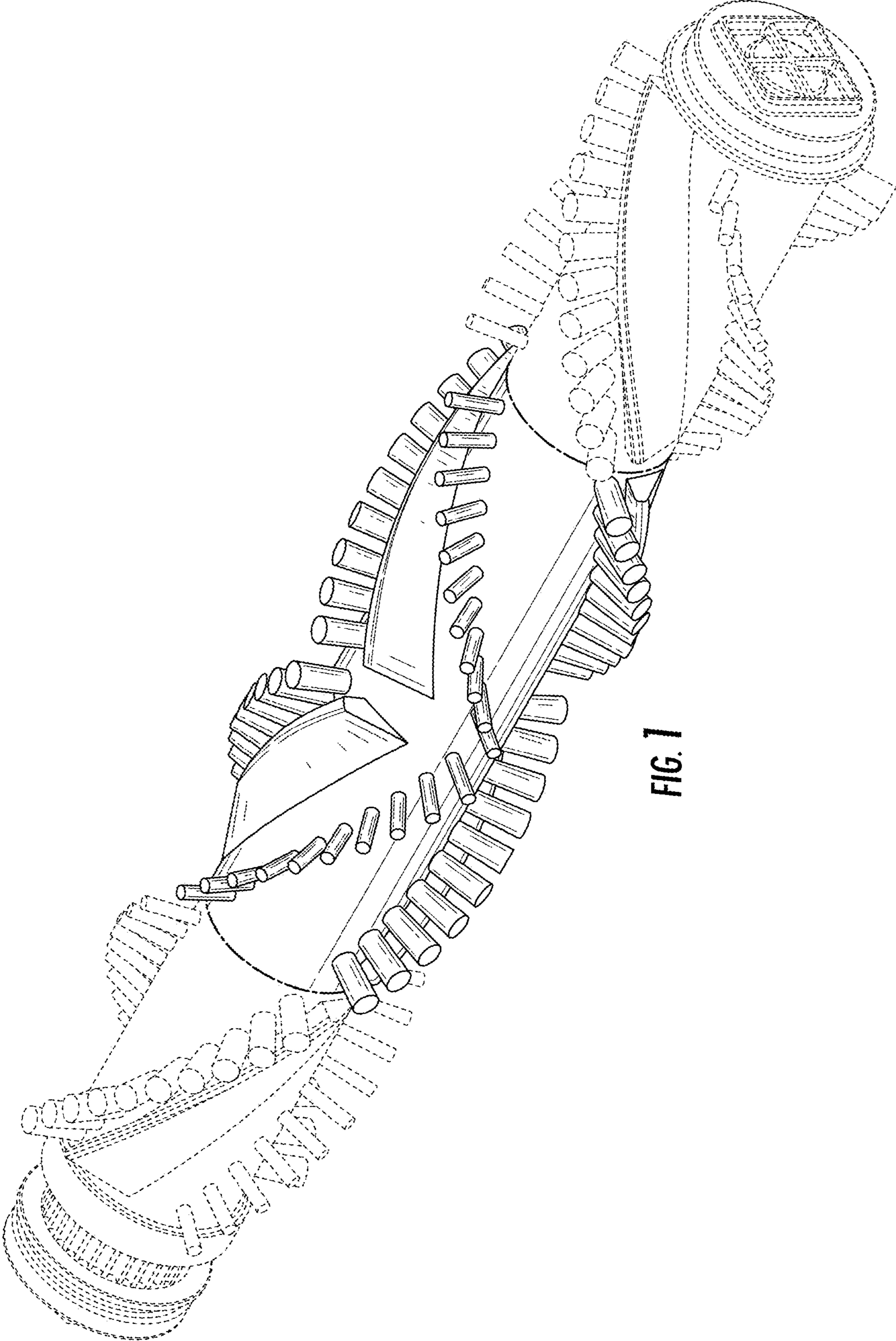


FIG. 1

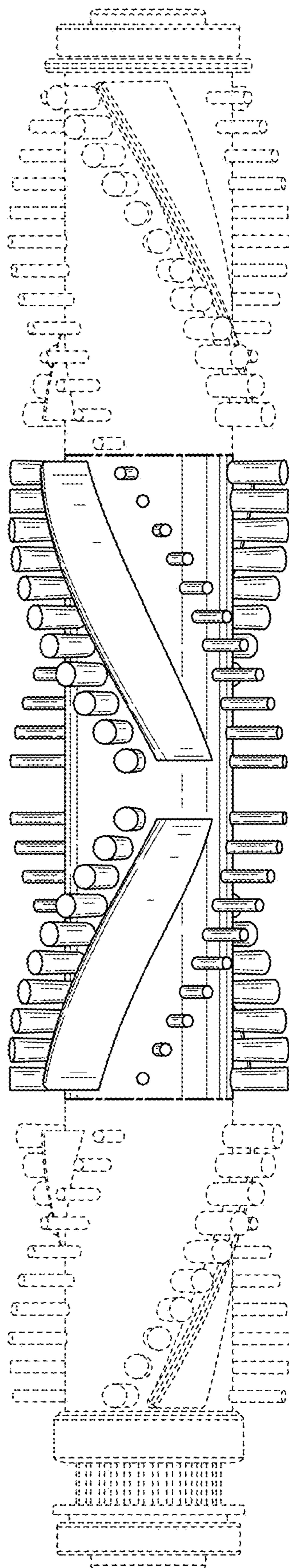


FIG. 2

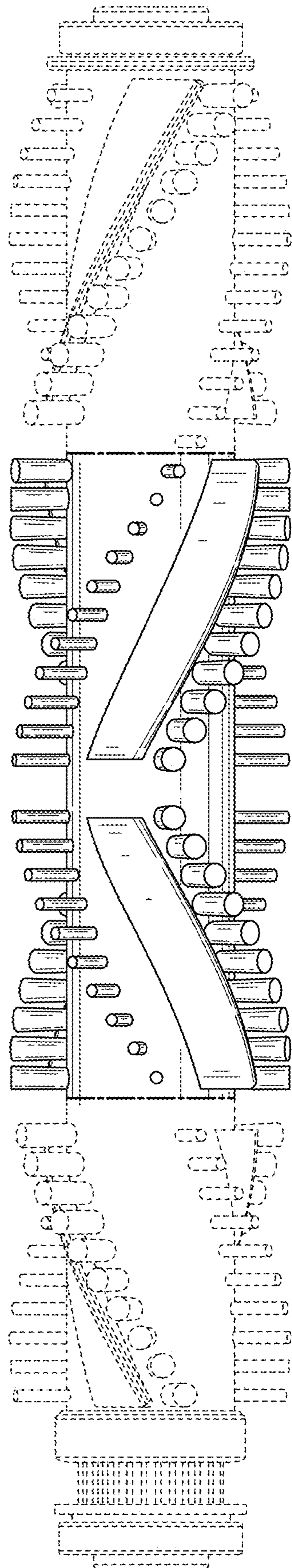


FIG. 3

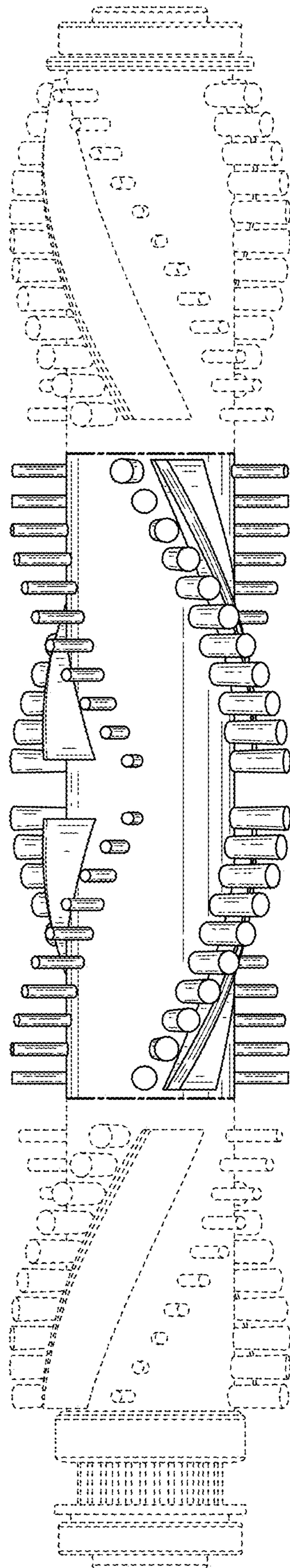


FIG. 4

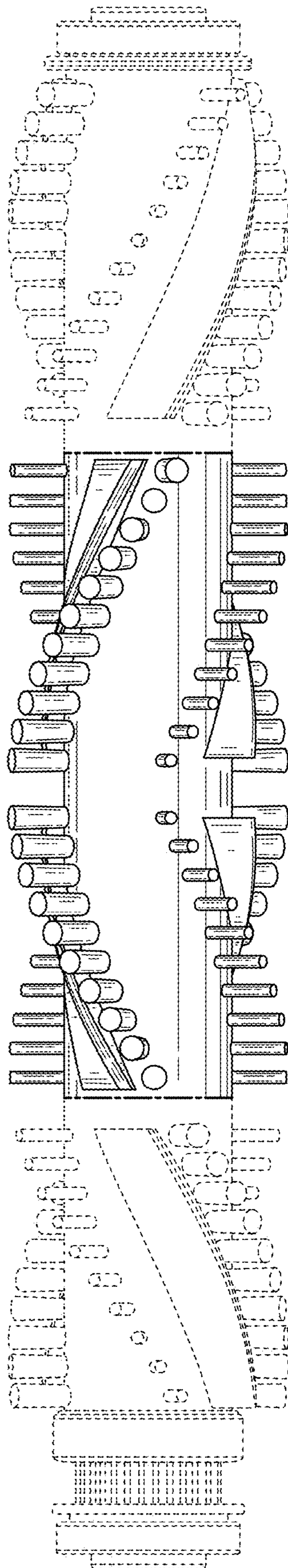


FIG. 5

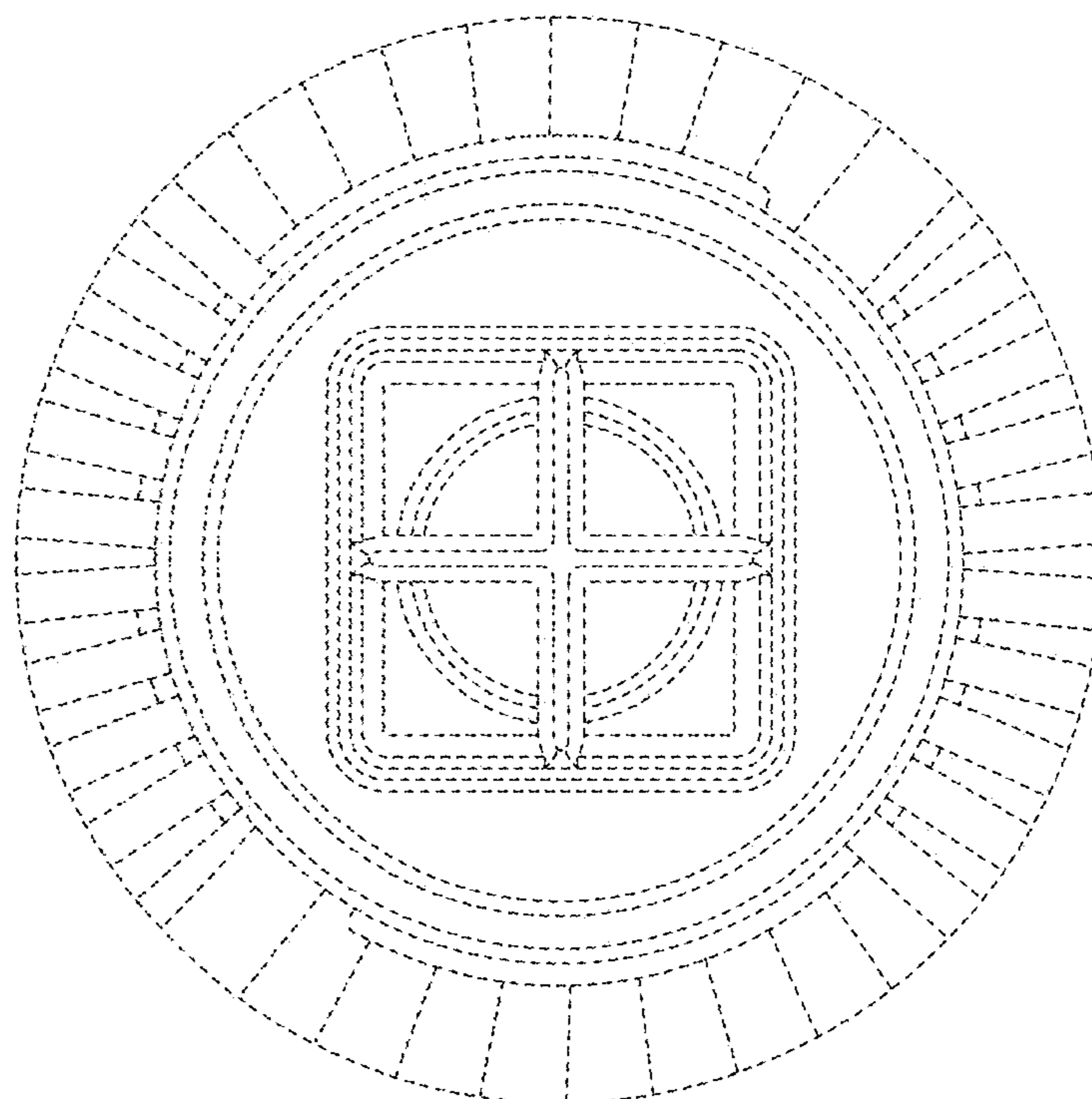


FIG. 6

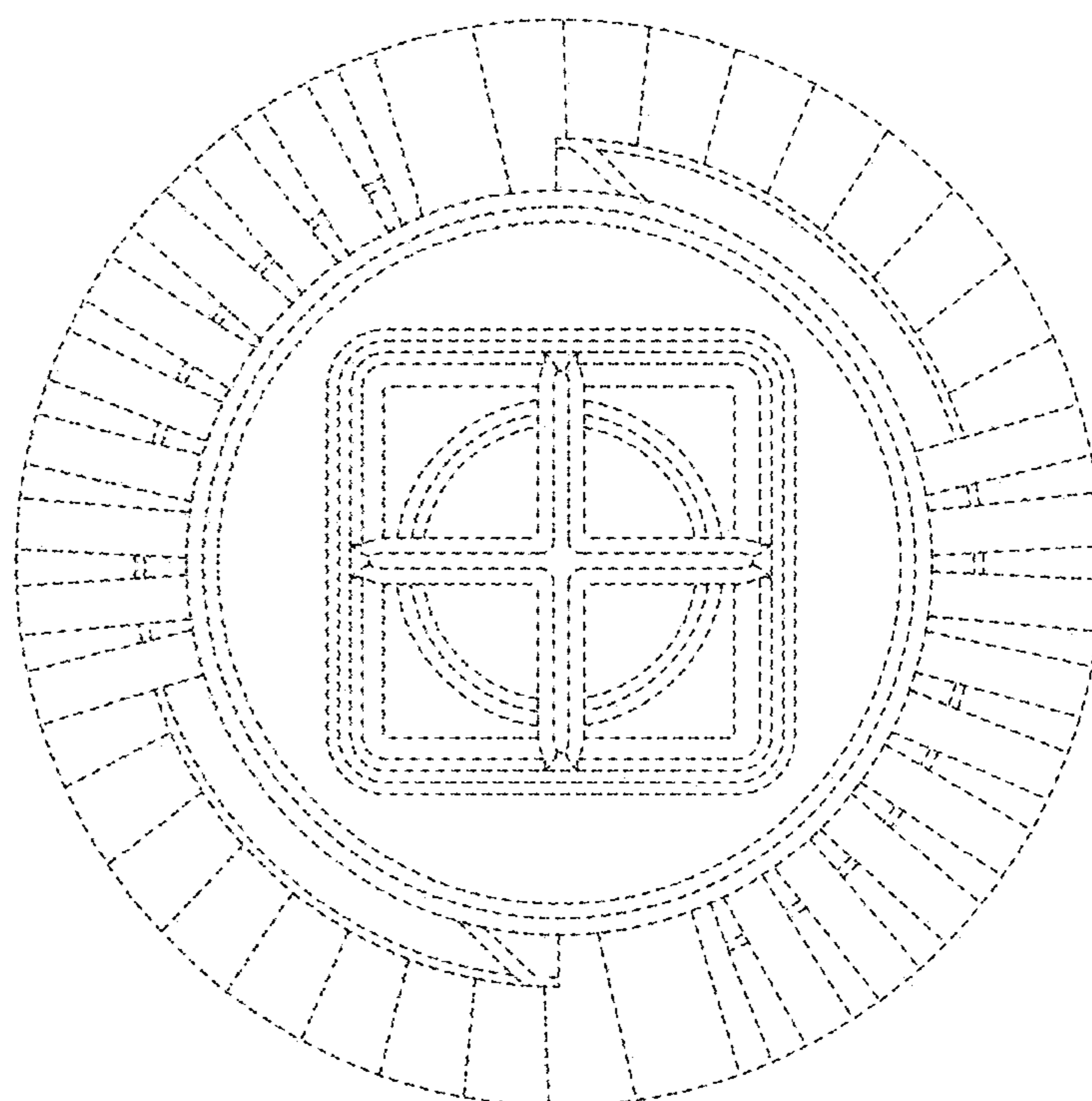


FIG. 7