



US00D795143S

(12) **United States Design Patent** (10) **Patent No.:** **US D795,143 S**
Niemann et al. (45) **Date of Patent:** **** Aug. 22, 2017**

(54) **ROTOR DISC**

(71) Applicant: **Consultex Systems, Incorporated,**
Spartanburg, SC (US)

(72) Inventors: **Arne W. Niemann,** Inman, SC (US);
Simon Reinhardt, Spartanburg, SC
(US)

(73) Assignee: **CONSULTEX SYSTEMS**
INCORPORATED, Spartanburg, SC
(US)

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

(21) Appl. No.: **29/559,518**

(22) Filed: **Mar. 29, 2016**

(51) **LOC (10) Cl.** **12-16**

(52) **U.S. Cl.**
USPC **D12/180**

(58) **Field of Classification Search**
USPC D12/14, 106, 114, 118, 122, 161, 162,
D12/179, 180, 207, 217, 400
CPC ... B60T 1/06; B60T 7/00; B60T 8/265; B60T
11/00; B60T 11/103; B60T 13/00; B60T
13/66; B60T 17/223; B60T 83/255; B60T
2201/00; B60T 2201/03; B60T 2260/00;
B60T 2270/00; B60T 2270/82; B60T
2270/83; B60T 2270/84; B62K 23/06;
B62L 1/02; B62L 3/02; B62D 13/025;
B62D 21/18; B62D 53/045; B62D 63/04;
B62D 65/02; B62D 65/18; F16D 55/00;
F16D 55/226; F16D 65/00; F16D 65/092;

F16D 65/095; F16D 65/097; F16D 65/18;
F16D 65/38; F16D 65/847; B32B 3/06
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,989,211 A * 1/1935 Norton F16D 65/10
188/218 R
2,041,385 A * 5/1936 Van Laanen, Jr. B60T 11/00
188/196 M
2,061,145 A * 11/1936 Duffy F16D 65/00
220/789

(Continued)

OTHER PUBLICATIONS

German UFO, image post date Nov. 3, 2015, site visited Dec. 10,
2016, (online), <[https://www.tineye.com/search/
cc573e1d5e45bb025136675adc8b8b9430b3480e/](https://www.tineye.com/search/cc573e1d5e45bb025136675adc8b8b9430b3480e/)>.*

(Continued)

Primary Examiner — Kevin Rudzinski

Assistant Examiner — Sean D Lough

(74) *Attorney, Agent, or Firm* — J. Bennett Mullinax LLC

(57) **CLAIM**

The ornamental design for a rotor disc, as shown and
described.

DESCRIPTION

FIG. 1 is an upper perspective view of another embodiment
of a rotor disc for use in a rotor spray system according to
the present subject matter;
FIG. 2 is a front view of the embodiment of the rotor disc
as shown in FIG. 1;
FIG. 3 is a rear view of the embodiment of the rotor disc as
shown in FIG. 1;
FIG. 4 is a right side view of the embodiment of the rotor
disc as shown in FIG. 1;
FIG. 5 is a left side view of the embodiment of the rotor disc
as shown in FIG. 1;

(Continued)

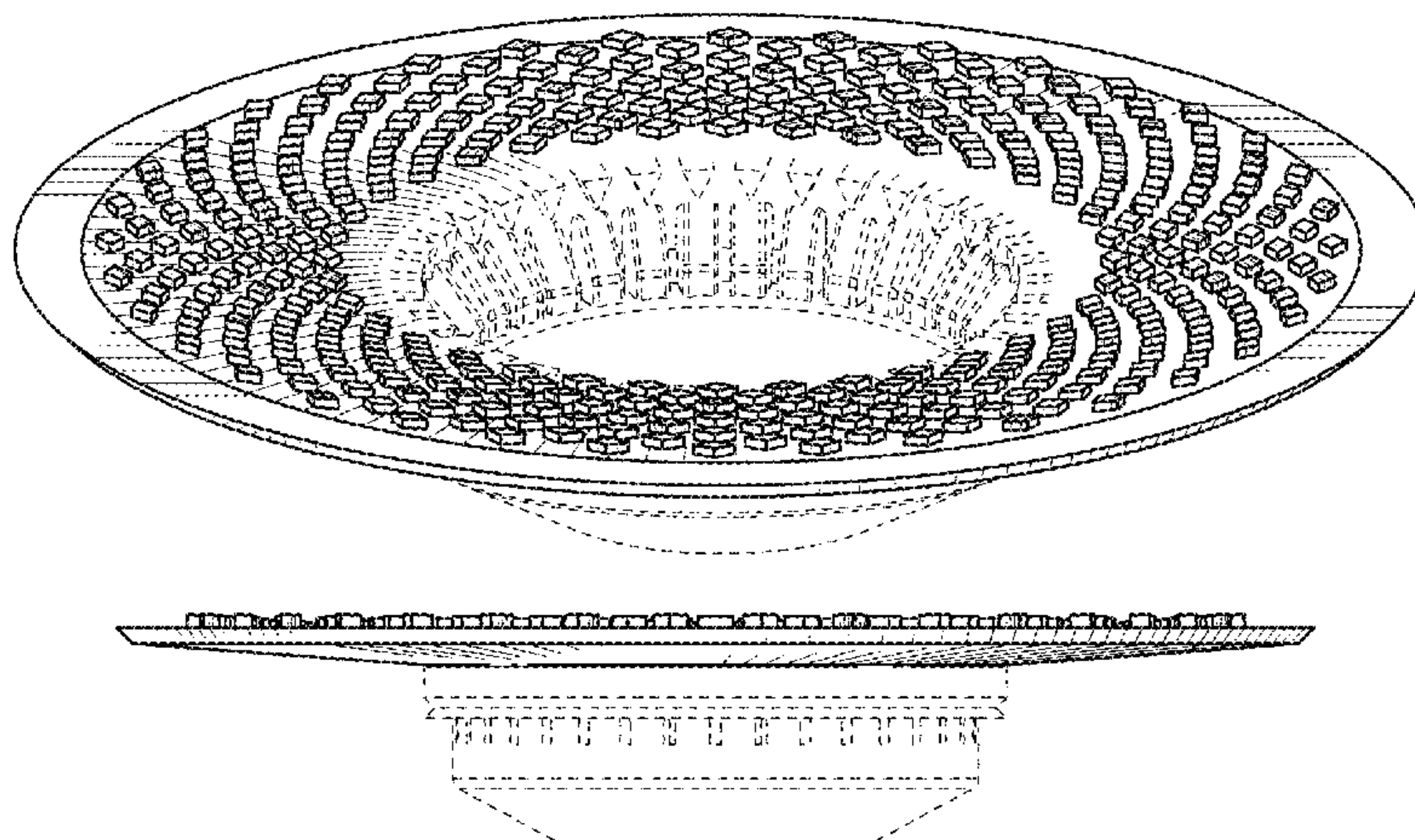


FIG. 6 is a top view of the embodiment of the rotor disc as shown in FIG. 1; and,

FIG. 7 is a bottom view of the embodiment of the rotor disc as shown in FIG. 1.

The broken lines, where present, in all FIG. views illustrate portions of the rotor disc that form no part of the claimed design.

1 Claim, 4 Drawing Sheets

(56) References Cited

U.S. PATENT DOCUMENTS

2,166,646 A * 7/1939 Sibbert F21V 11/06
12/147 R
2,410,195 A * 10/1946 Baselt F16D 65/123
164/333
3,085,391 A * 4/1963 Hatfield F16H 61/46
60/433
3,840,093 A * 10/1974 Hamayasu B62L 1/005
188/24.12
4,056,172 A * 11/1977 Campagnolo B62L 1/02
188/26
4,122,921 A * 10/1978 Diggs F16D 65/00
188/79.62
4,250,950 A * 2/1981 Buxmann B22D 11/0654
164/122
4,658,891 A * 4/1987 Wurtz F28F 13/125
165/92
4,865,167 A * 9/1989 Giorgetti F16D 65/128
188/218 XL
4,991,697 A * 2/1991 Hummel B23P 15/18
188/250 B
5,123,514 A * 6/1992 Gatins, Jr. F16D 65/092
192/107 M
D369,336 S * 4/1996 Zemlicka D12/207
D370,462 S * 6/1996 Fukao D13/146
5,542,503 A * 8/1996 Dunn F16D 65/128
188/18 A
D389,391 S * 1/1998 Duston D8/303
D396,396 S * 7/1998 Larson D8/303
5,795,391 A * 8/1998 Niemann B05B 3/10
118/315
6,109,399 A * 8/2000 Crawford B62L 1/06
188/24.11

D461,390 S * 8/2002 Livingston D8/303
D510,063 S * 9/2005 Moser D12/406
D517,566 S * 3/2006 Meheen D15/5
7,066,306 B2 * 6/2006 Gavin F16D 65/12
188/218 XL
D537,762 S * 3/2007 Payne D12/180
D546,267 S * 7/2007 Burchett D12/221
D556,101 S * 11/2007 Hurlbutt D12/180
7,320,386 B2 * 1/2008 Kulis, Jr. F16D 65/0037
188/250 B
D604,675 S * 11/2009 Litter D12/120
D611,784 S * 3/2010 Girard D8/25
7,690,484 B2 * 4/2010 Oberti B22C 7/06
188/218 XL
7,934,586 B1 * 5/2011 Black F16D 65/123
188/218 XL
7,967,115 B2 * 6/2011 Keller F16D 65/12
188/218 XL
D655,992 S * 3/2012 Noyes D12/180
8,499,904 B2 * 8/2013 Biondo F16D 65/12
188/218 XL
8,668,058 B2 * 3/2014 Lu F16D 65/12
188/218 XL
8,733,517 B2 * 5/2014 Tironi F16D 65/128
188/218 XL
D720,277 S * 12/2014 Dakin D12/213
D720,278 S * 12/2014 Pinkall D12/217
9,022,182 B2 * 5/2015 Cavagna F16D 65/128
188/218 XL
D731,035 S * 6/2015 Lo Cicero D23/269
9,127,734 B2 * 9/2015 Hanna F16D 65/12
D765,646 S * 9/2016 Deng D12/415
D772,972 S * 11/2016 Anari, III D16/243
2006/0243546 A1 * 11/2006 Oberti F16D 65/123
188/218 XL
2006/0243547 A1 * 11/2006 Keller F16D 65/12
188/218 XL

OTHER PUBLICATIONS

Diamond Polishing Discs and Pads, image post date Dec. 19, 2013, site visited Dec. 10, 2016, (online), <http://web.archive.org/web/20131219040735/http://www.pothierenterprises.com/old/diamond_polishing_discs.php>.*
Performance Friction BMW M3 E36 Front Brake Discs, image post date Feb. 13, 2013, site visited Dec. 10, 2016, (online), <<http://web.archive.org/web/20130213232244/http://www.driftworks.com/performance-friction-bmw-m3-e36-front-brake-discs.html>>.*

* cited by examiner

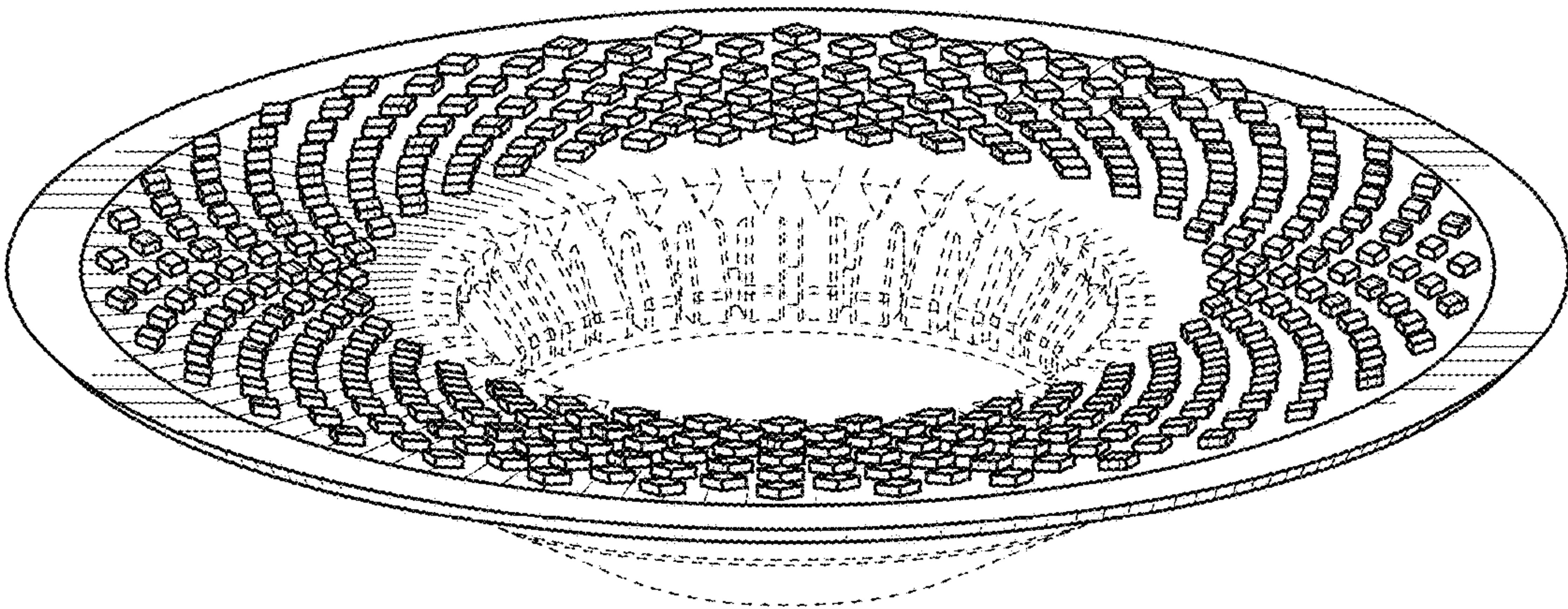


FIG. 1

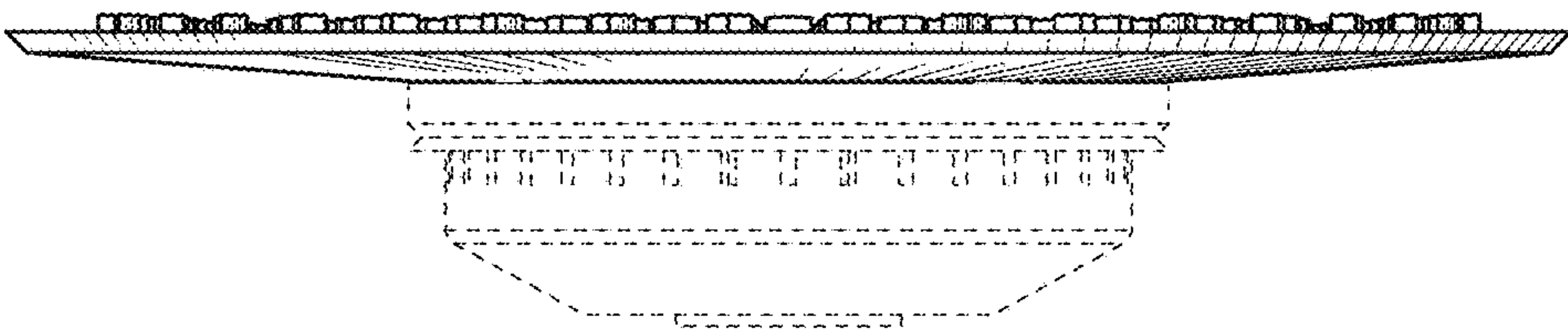


FIG. 2

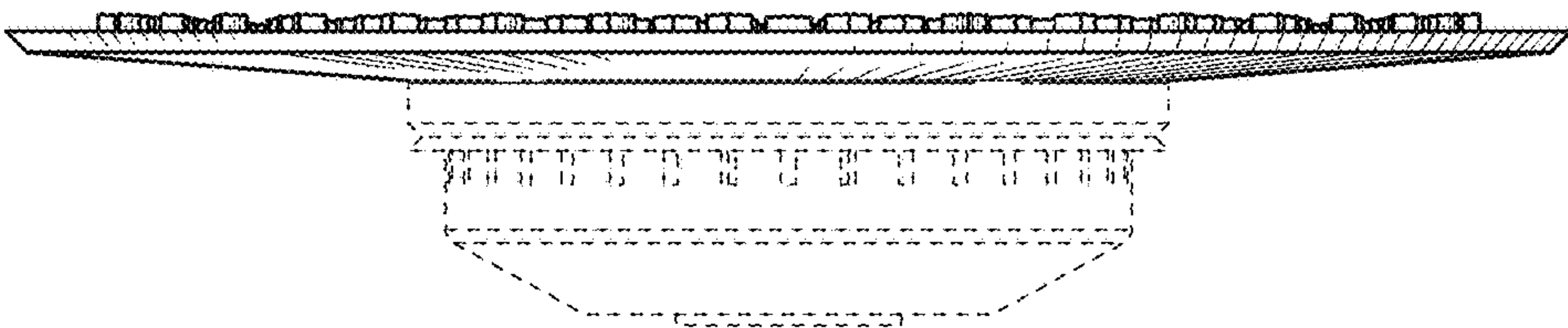


FIG. 3

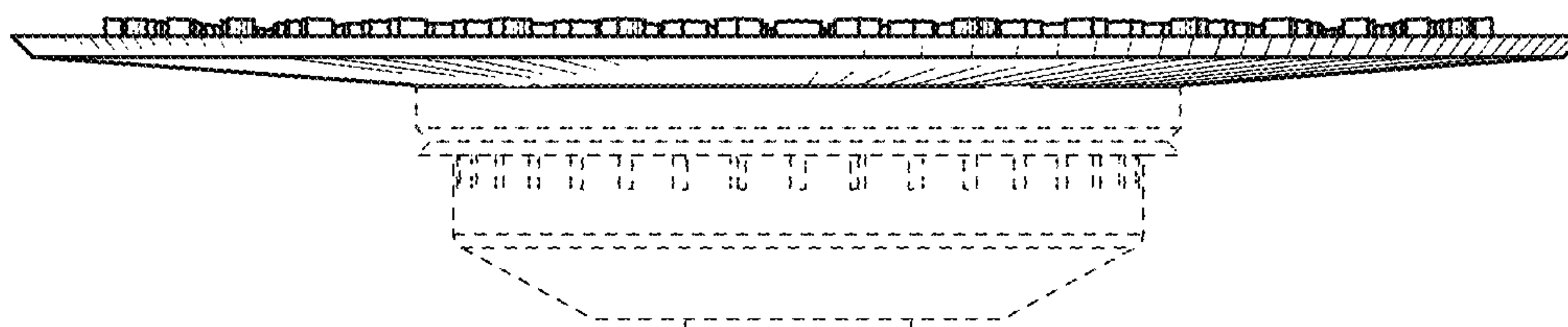


FIG. 4

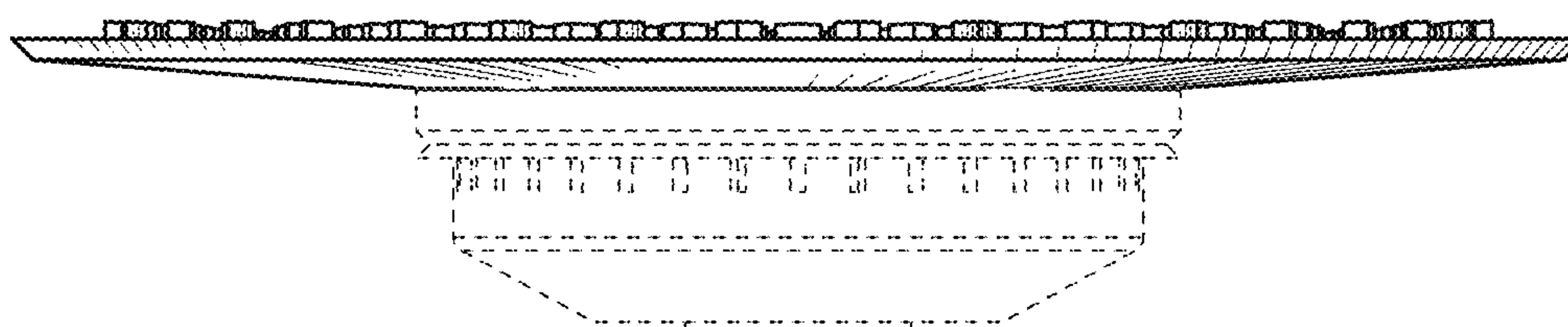


FIG. 5

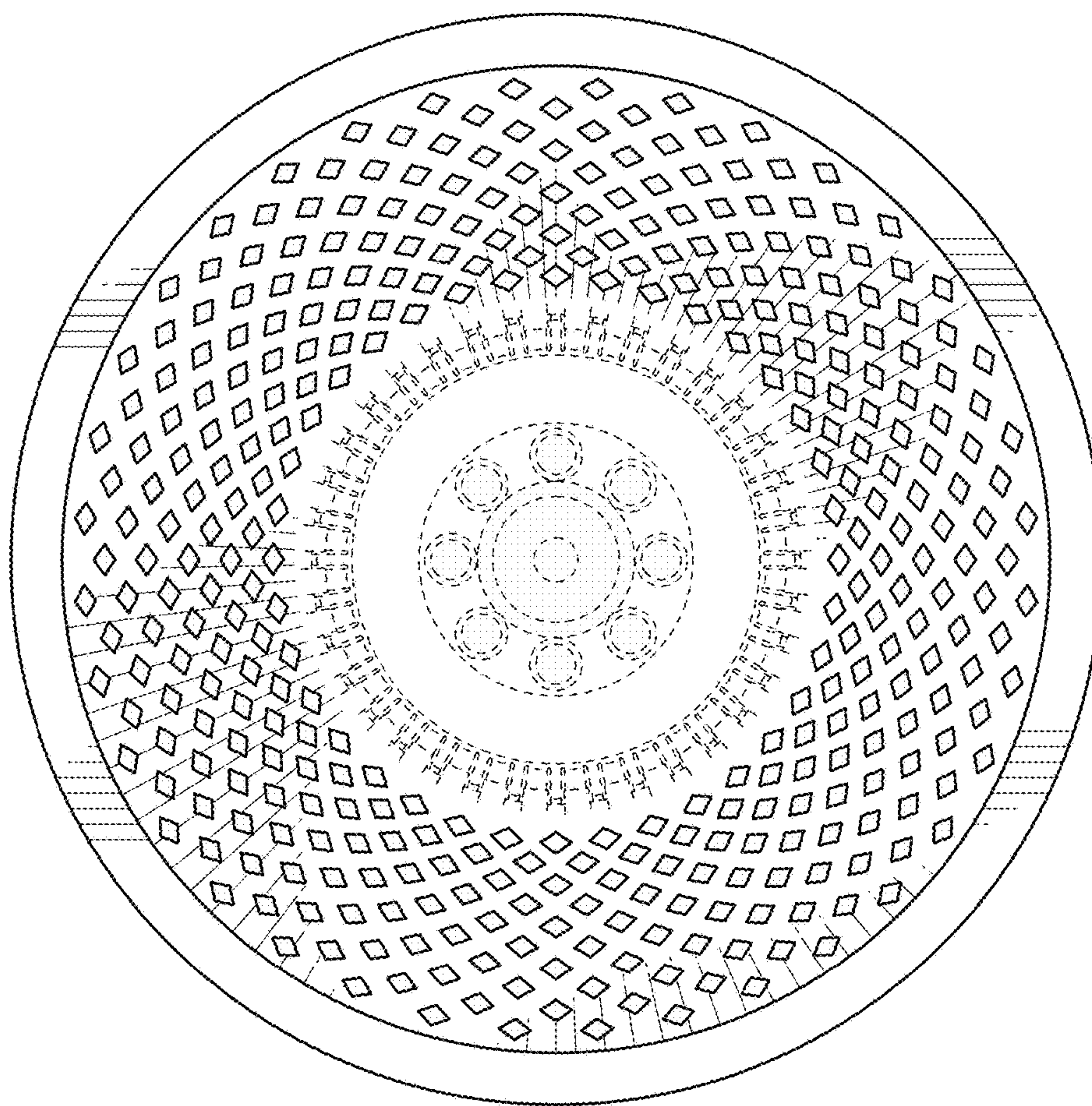


FIG. 6

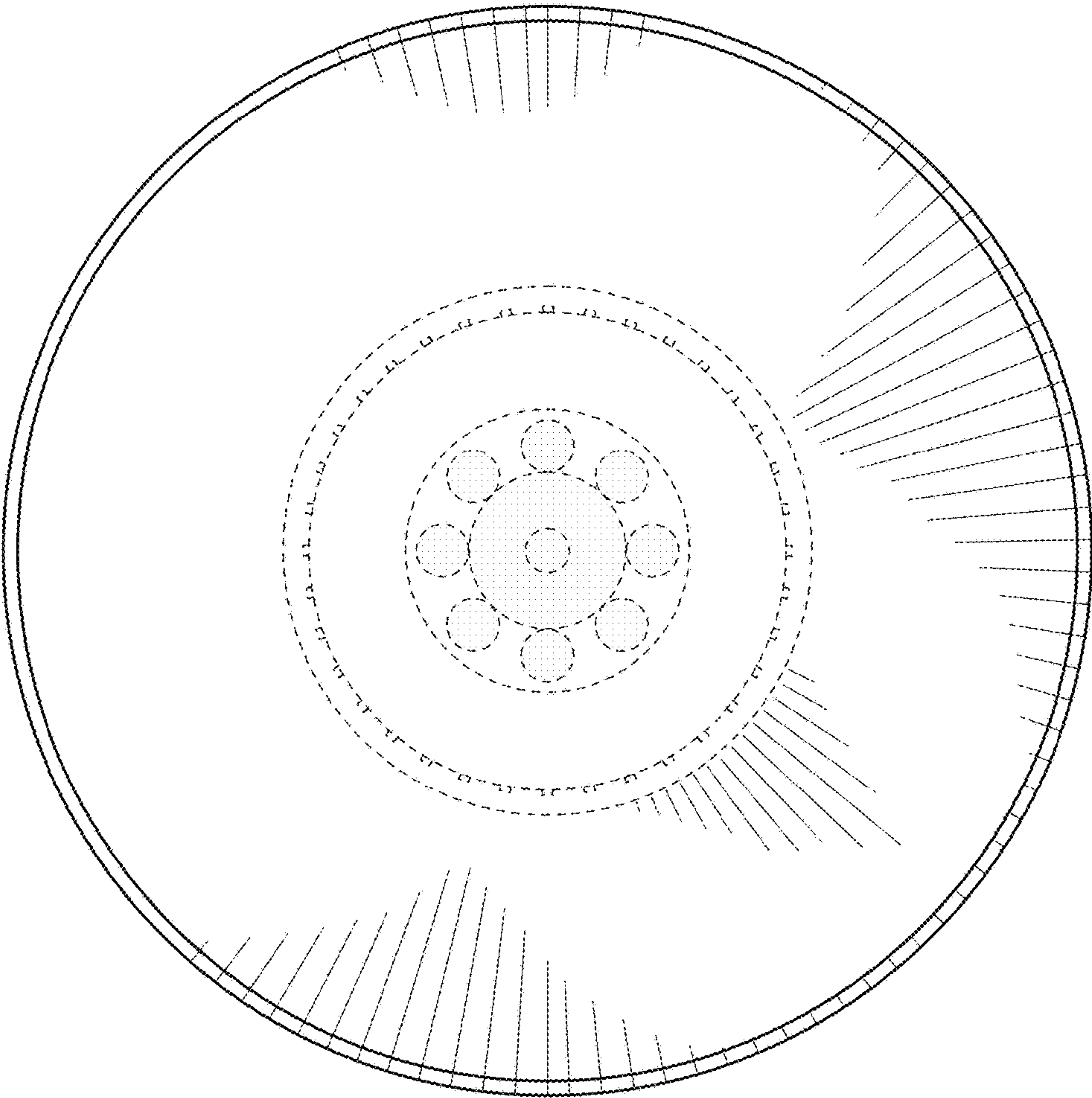


FIG. 7