



US00D933440S

(12) **United States Design Patent** (10) **Patent No.:** **US D933,440 S**
Tchakarov (45) **Date of Patent:** **** Oct. 19, 2021**

(54) **POLISHING OR GRINDING PAD**

- (71) Applicant: **Husqvarna AB**, Huskvarna (SE)
- (72) Inventor: **Tchavdar V. Tchakarov**, Monroe, MI (US)
- (73) Assignee: **HUSQVARNA AB**, Huskvarna (SE)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/693,029**
- (22) Filed: **May 30, 2019**

Related U.S. Application Data

- (62) Division of application No. 29/578,663, filed on Sep. 23, 2016, now Pat. No. Des. 854,902.
- (51) **LOC (13) Cl.** **08-05**
- (52) **U.S. Cl.**
USPC **D8/70**
- (58) **Field of Classification Search**
USPC D8/20, 61, 62, 63, 70; D15/124, 125, D15/126, 132, 138, 139, 140; D32/40
CPC . B24D 3/28; B24D 9/08; B24D 18/00; B24D 18/0027; B24B 37/24; B24B 37/26; B24B 55/102
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,174,902	A	10/1939	Stratford
2,225,193	A	12/1940	Benner
2,425,368	A	8/1947	Doermann
2,556,983	A	6/1951	Root
2,662,454	A	12/1953	Whiteman
2,819,568	A	1/1958	Kasick

(Continued)

FOREIGN PATENT DOCUMENTS

CA	159666	S	7/2015
CA	162792	S	7/2015

(Continued)

OTHER PUBLICATIONS

“Confidential/experimental sale from Diamond Tool Supply, Inc. to Wagman Metal Products on Sep. 1, 2016,” 2 pages.
(Continued)

Primary Examiner — Darlington Ly
(74) *Attorney, Agent, or Firm* — Burr & Forman, LLP

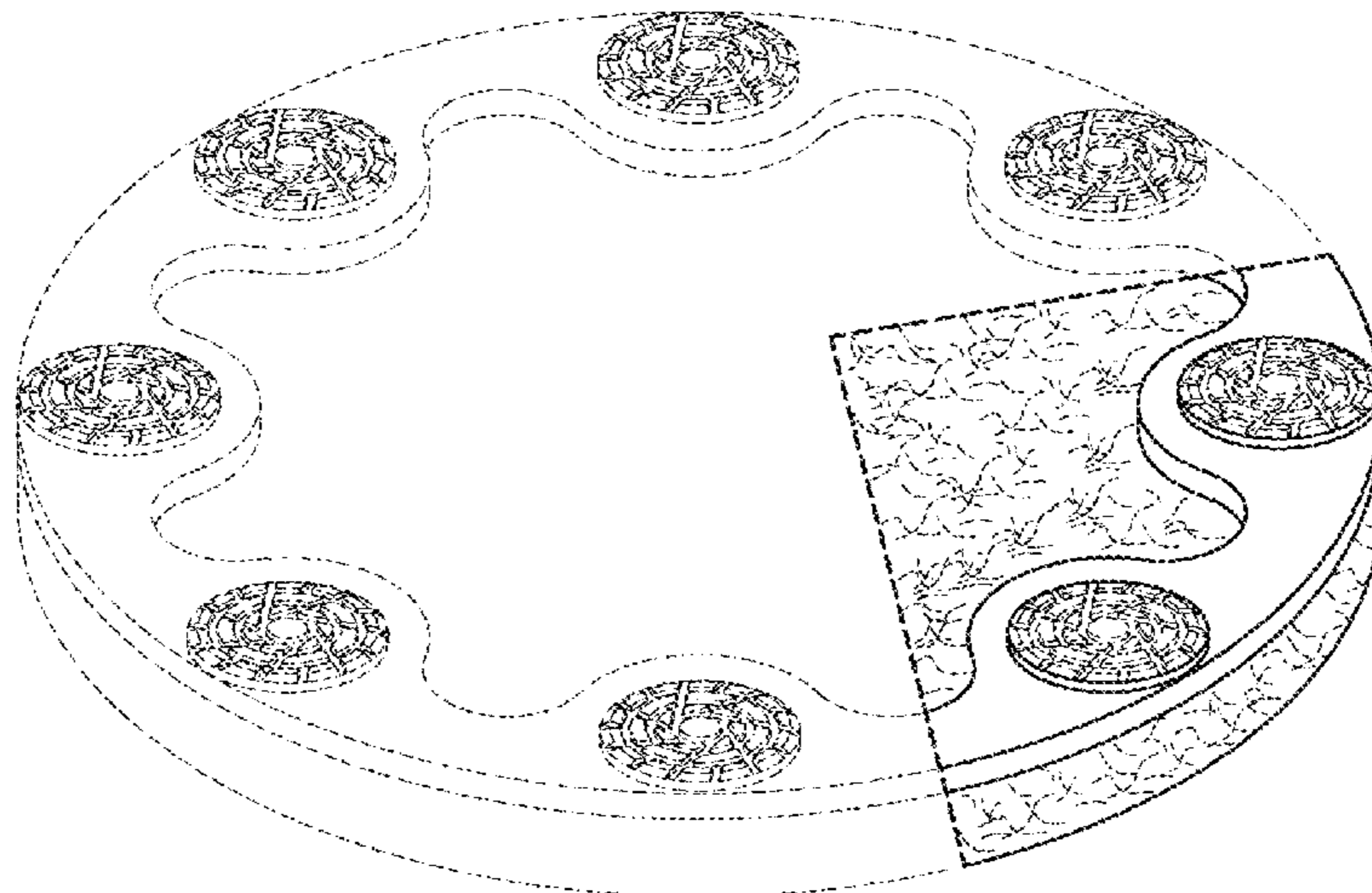
(57) **CLAIM**

I claim the ornamental design for a polishing or grinding pad, as shown and described.

DESCRIPTION

FIG. 1 is a bottom perspective view of a polishing or grinding pad showing my new design in accordance to a first embodiment;
 FIG. 2 is a top plan view thereof;
 FIG. 3 is a bottom plan view thereof;
 FIG. 4 is a side elevation view thereof; and
 FIG. 5 is a cross-sectional view thereof, taken along line 5-5 in FIG. 3.
 FIG. 6 is a bottom perspective view of a polishing or grinding pad showing my new design in accordance to a second embodiment;
 FIG. 7 is a top plan view thereof;
 FIG. 8 is a bottom plan view thereof;
 FIG. 9 is a side elevation view thereof; and,
 FIG. 10 is a cross-sectional view thereof, taken along line 10-10 in FIG. 8.
 The even broken lines in the drawings illustrate portions of the polishing or grinding pad that form no part of the claimed design.
 The pattern consisting of short arcuate broken lines in the drawings illustrate a fibrous surface of the polishing or grinding pad that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2009/0191799 A1* 7/2009 Rivard B24D 13/16
451/259

2010/0136889 A1 6/2010 Kilgren et al.
2010/0190421 A1 7/2010 Hamm
2010/0240282 A1 9/2010 Young
2011/0053468 A1 3/2011 Vontell
2011/0092136 A1 4/2011 Thysell
2011/0195644 A1 8/2011 Gallup et al.
2011/0222966 A1 9/2011 Allen et al.
2011/0223845 A1 9/2011 Van Der Veen et al.
2011/0300784 A1 12/2011 Tchakarov et al.
2012/0270483 A1 10/2012 Bae et al.
2013/0000246 A1 1/2013 Bourelle
2013/0225051 A1 8/2013 Vankouwenberg
2013/0324021 A1* 12/2013 Ryan B24D 13/147
451/529

2014/0154961 A1 6/2014 Fiore
2015/0328742 A1 11/2015 Schuele et al.
2016/0083967 A1 3/2016 Tchakarov et al.
2016/0136772 A1 5/2016 Littlefield et al.
2016/0144485 A1 5/2016 Ruan et al.
2016/0221155 A1 8/2016 Song et al.
2017/0129067 A1* 5/2017 Young A47L 11/164
2017/0361414 A1 12/2017 Tchakarov
2017/0361423 A1 12/2017 Tchakarov
2018/0200857 A1 7/2018 Tchakarov
2018/0206690 A1 7/2018 Tchakarov

FOREIGN PATENT DOCUMENTS

CA 162793 S 7/2015
CA 162794 S 7/2015
CA 162795 S 7/2015
CA 162796 S 7/2015
CA 162797 S 7/2015
DE 20120137 U1 2/2002
DE 102009008261 A1 8/2010
DE 202015101442 U1 5/2015
EP 3 348 352 A1 7/2018
JP S49-77293 U 7/1974
JP S56-94267 U 7/1981
JP H01117854 U 8/1989
JP 2001-526593 A 12/2001
JP 2004025401 A 1/2004
JP 2004276197 A 10/2004

JP 2006068885 A 3/2006
JP 2008-532781 A 8/2008
JP 2012232378 A 11/2012
JP 2014-513635 A 6/2014
KR 100816026 B1 3/2008
KR 100853547 B1 8/2008
WO 2008/065210 A1 6/2008
WO 2017/053737 A1 3/2017

OTHER PUBLICATIONS

Diamond Tool Supply, Inc., "Monroe Floor Polishing Systems," www.diamondtoolsupply.com, published prior to Sep. 24, 2015, 14 pages.
Diamond Tool Supply, Inc., Various polishing and grinding parts, www.diamondtoolsupply.com, published prior to Sep. 24, 2015, 26 pages.
Si GmbH, The System Manufacturer, Brochure Edition 12, Jan. 2017, 83 pages.
International Search Report and Written Opinion for International Application No. PCT/US2016/053355 dated Dec. 22, 2016.
International Search Report and Written Opinion for International Application No. PCT/US2018/048845 dated Dec. 5, 2018.
Diamond Tool Supply, Inc., "Floor Maintenance and Cleaning—Vortex" Catalog, (published on or before May 2013).
Diamond Tool Supply, Inc., "Tools for Concrete" Catalog, (published on or before May 2013).
Diamond Tool Supply, Inc., "Floor Maintenance and Cleaning—Monroe" Catalog, (published prior to Sep. 2014).
Diamond Tool Supply, Inc., "Tools for Stone" Catalog, (published prior to Sep. 2014).
Diamond Tool Supply, Inc., "Tools for Concrete" Catalog, (published prior to Sep. 2014).
HTC, "Professional Floor Systems" Product catalog 2014, www.htc-floorsystems.com, 2014.
HTC, "Professional Floor Systems" Product catalogue 2015, www.htc-floorsystems.com, 2015.
Wagman Metal Products Inc., "Concrete Finishing Tools" Catalog, (published prior to Sep. 23, 2016).
"Diamond Tools for Construction Stone," EHWA Diamond Ind. Co. Ltd. Catalogue, Published 2016, 60 pages.
U.S. Appl. No. 29/615,585, filed Aug. 30, 2017.
U.S. Appl. No. 29/615,569, filed Aug. 30, 2017.
U.S. Appl. No. 29/615,552, filed Aug. 30, 2017.

* cited by examiner

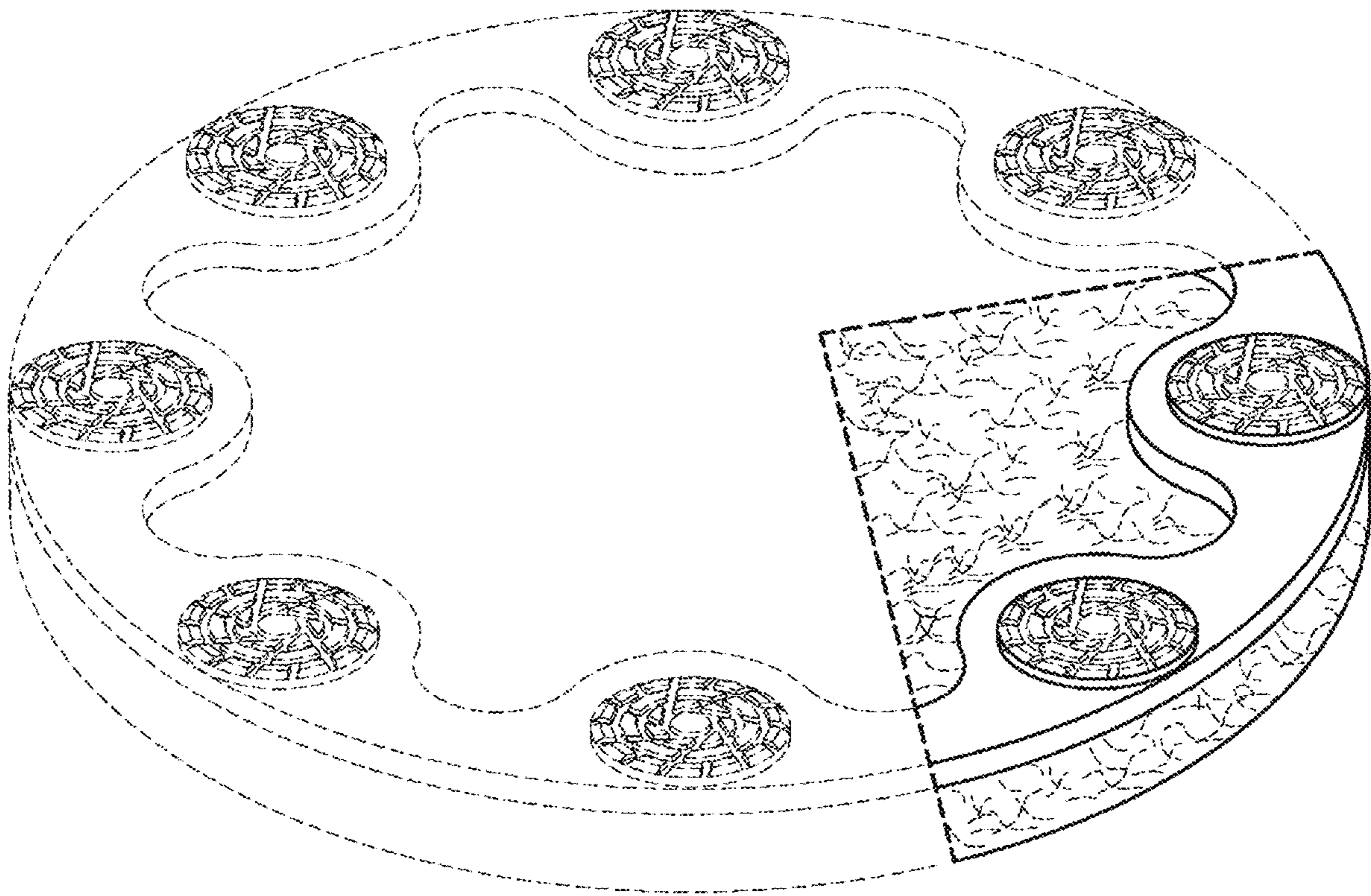


FIG - 1

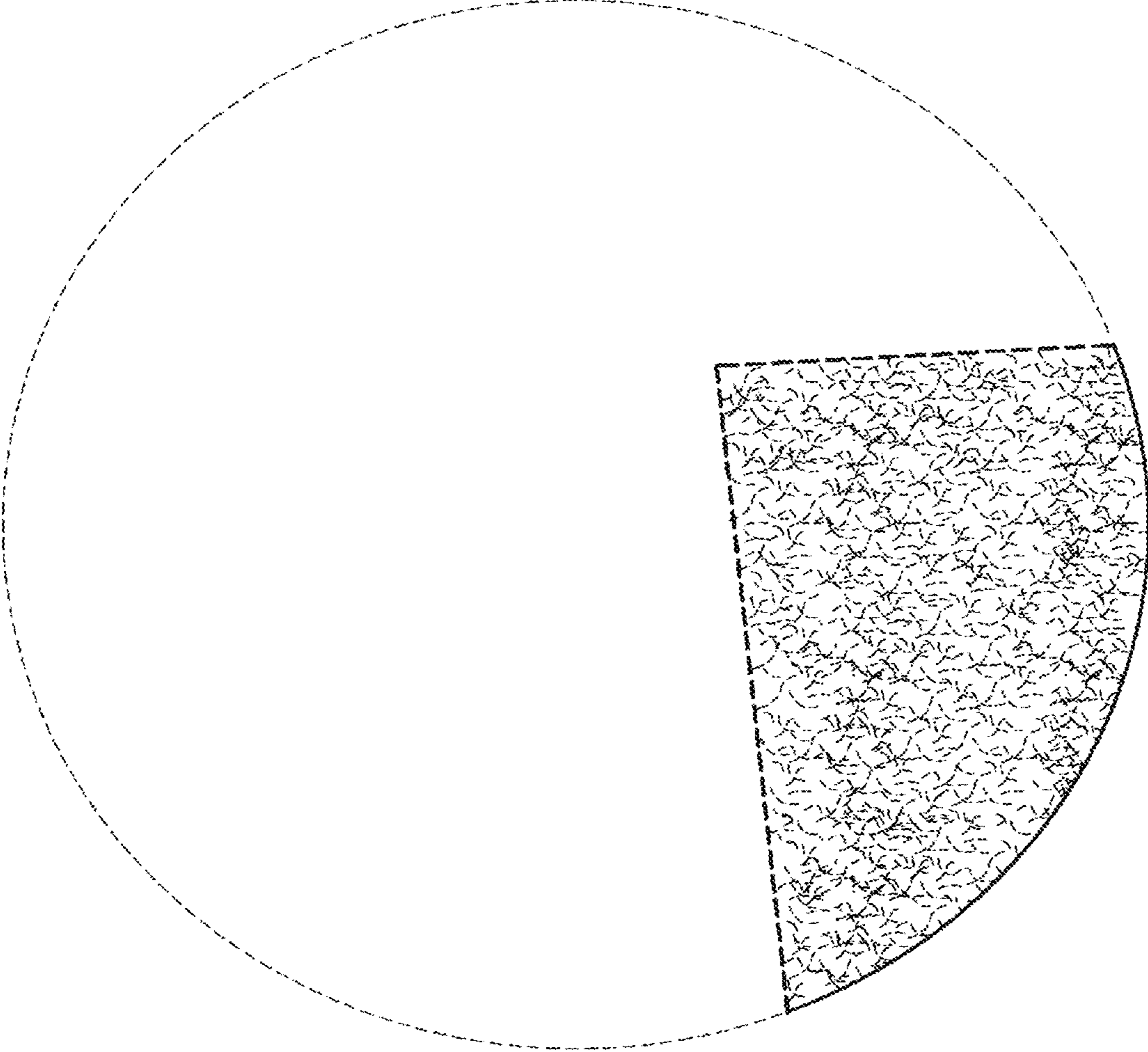


FIG - 2

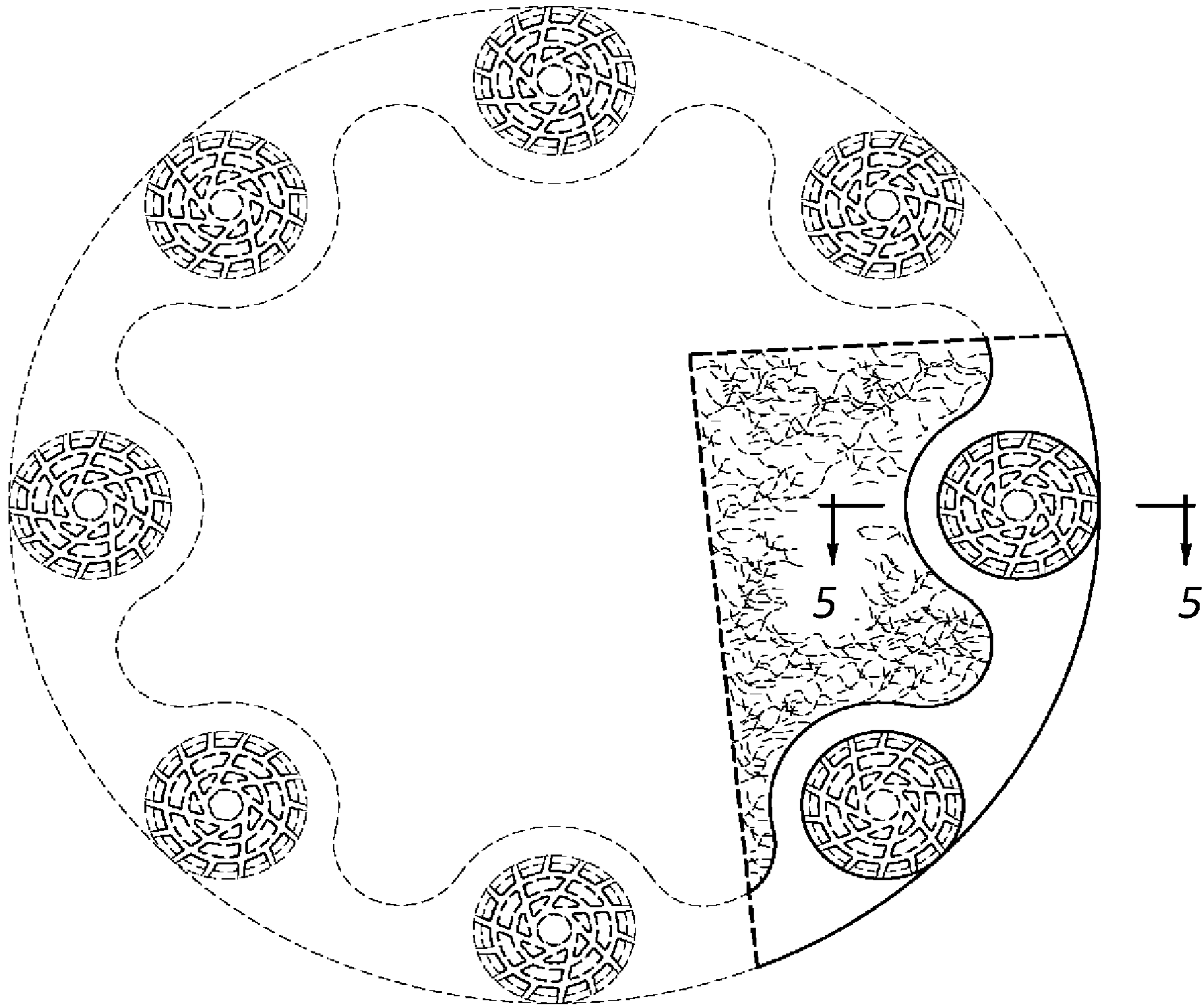


FIG - 3

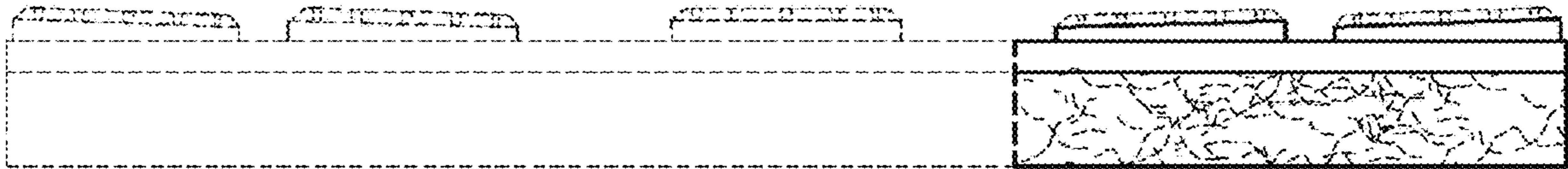


FIG - 4

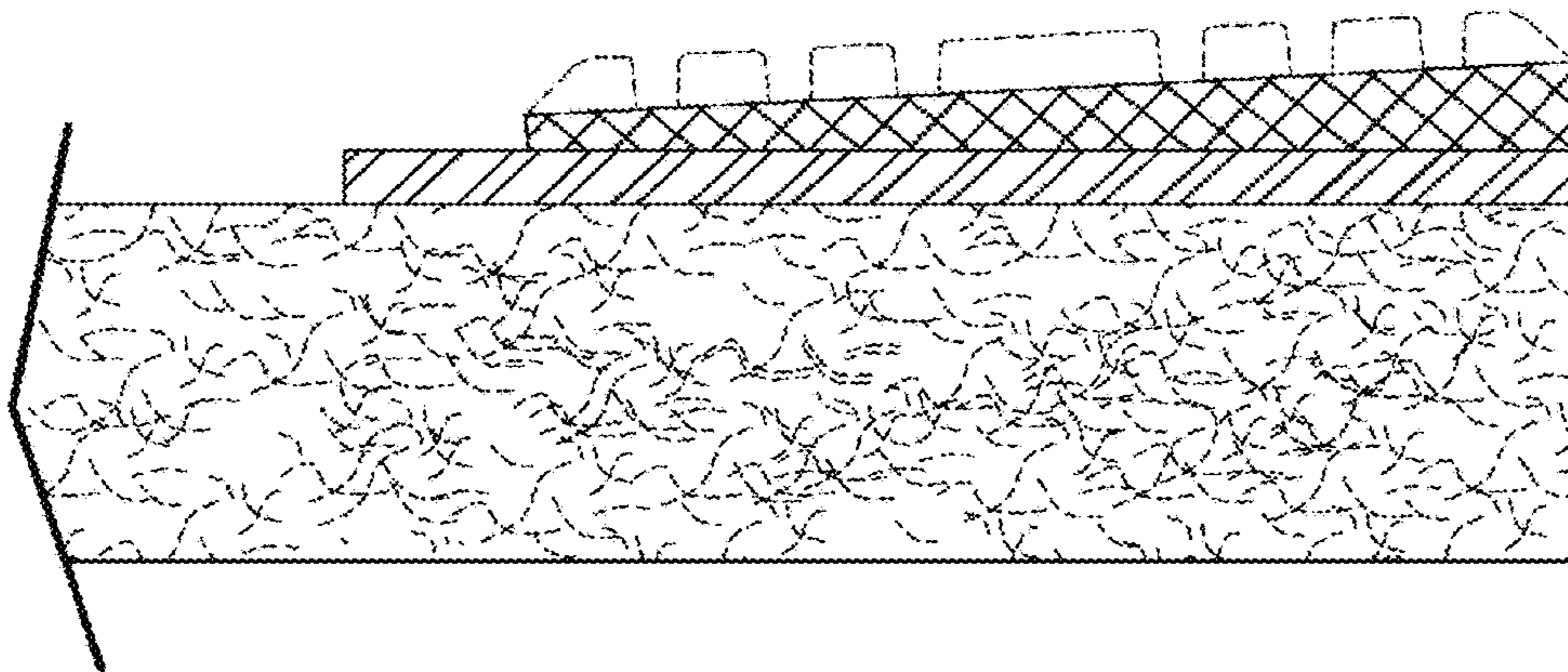


FIG - 5

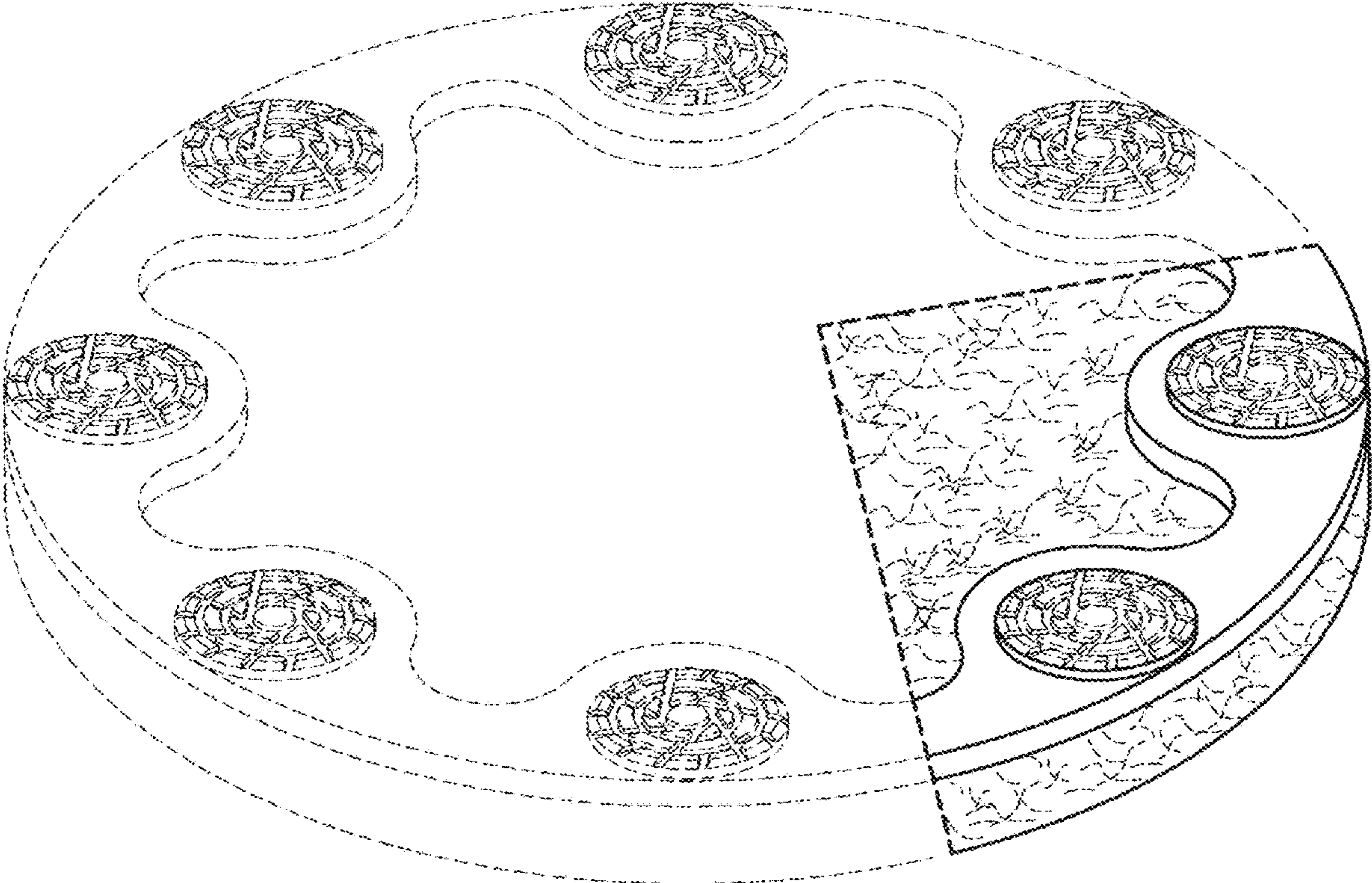


FIG - 6

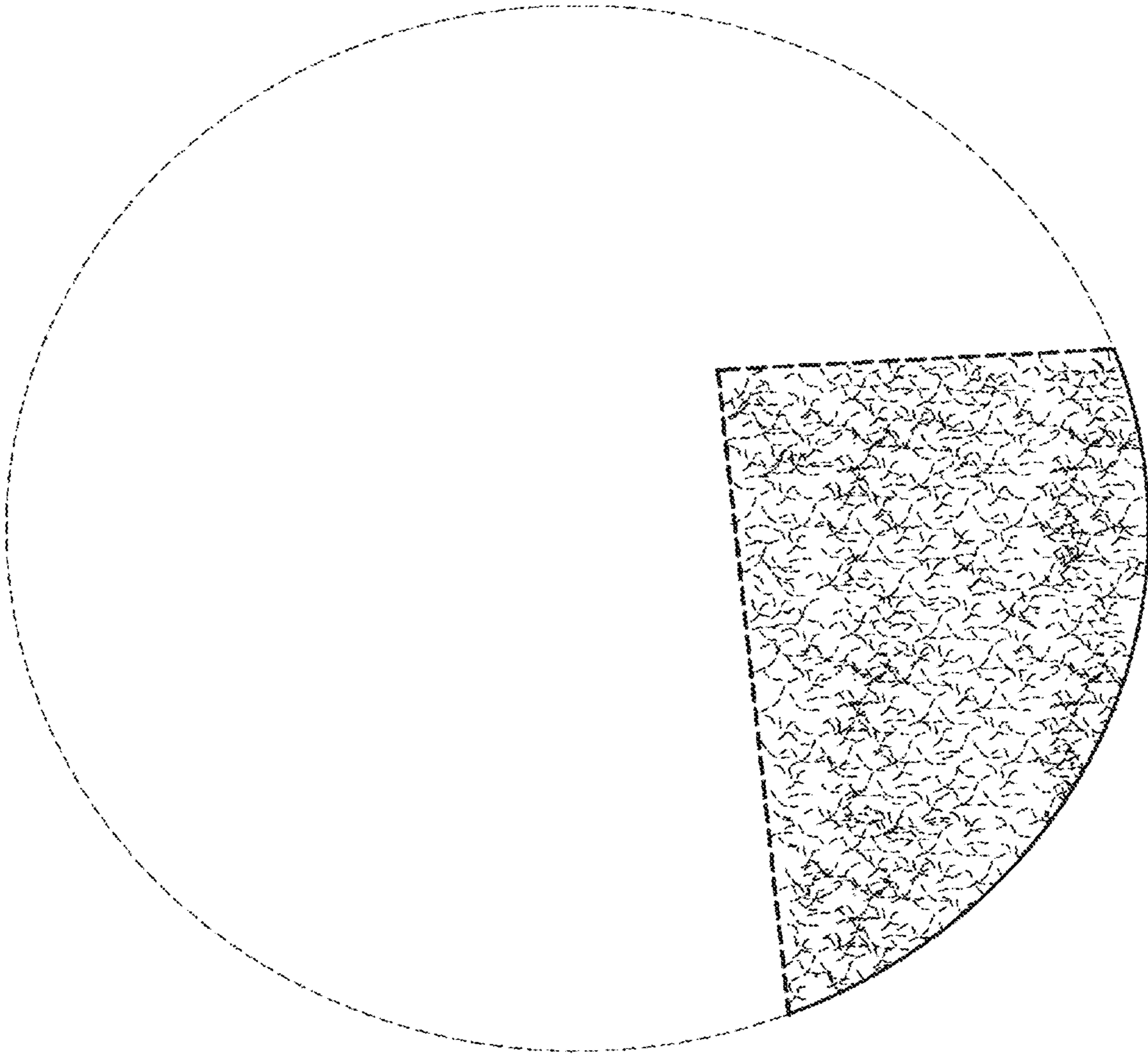


FIG - 7

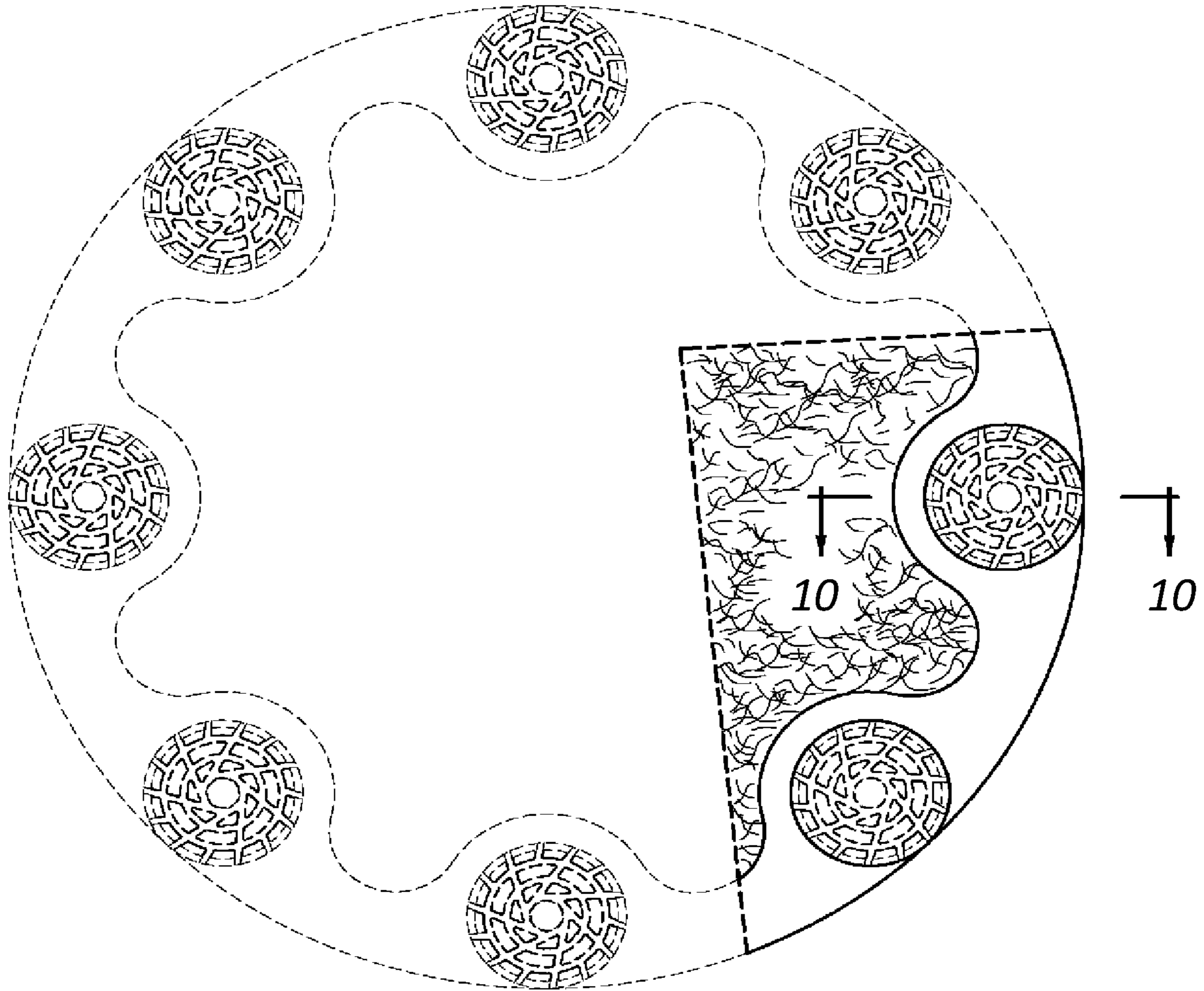


FIG - 8

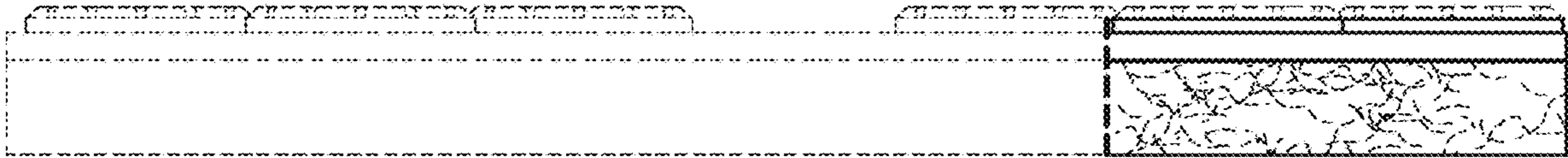


FIG - 9

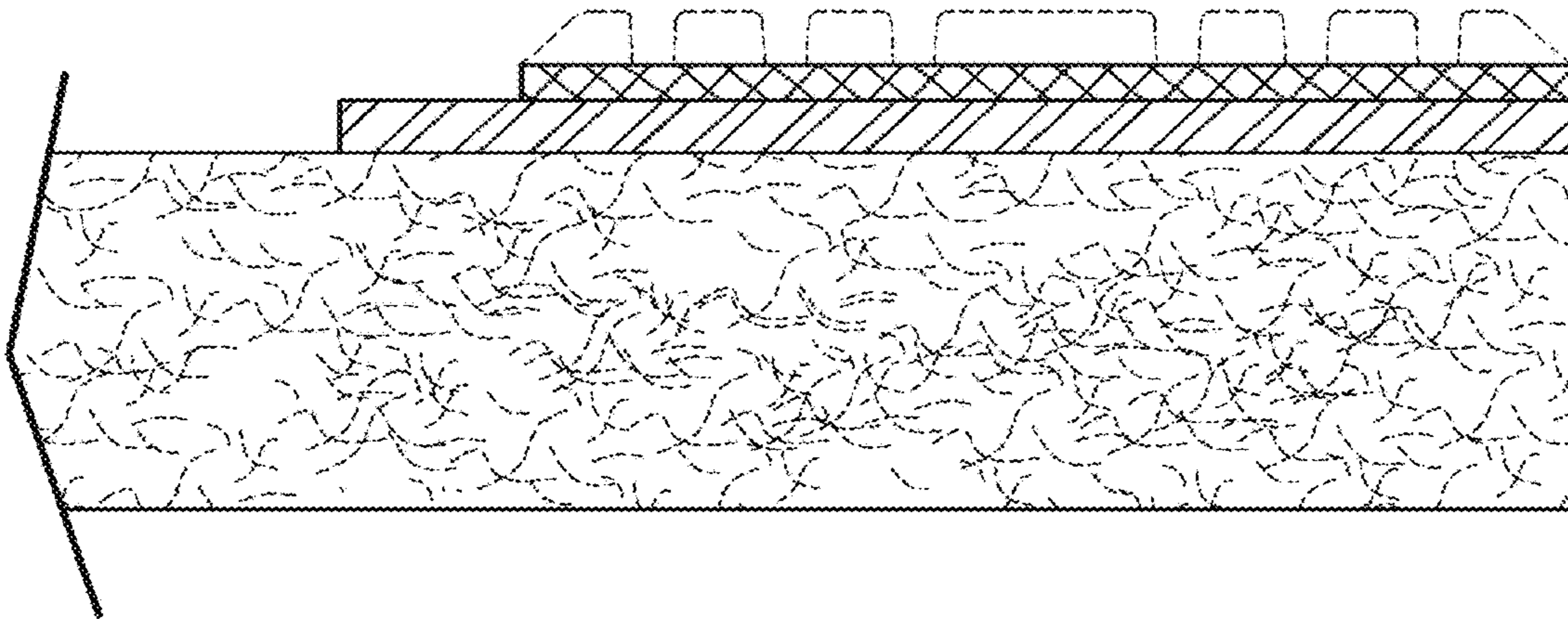


FIG - 10