



US00D919396S

(12) **United States Design Patent** (10) **Patent No.:** **US D919,396 S**
Tchakarov (45) **Date of Patent:** **** May 18, 2021**

(54) **POLISHING OR GRINDING PAD ASSEMBLY WITH ABRASIVE DISKS, REINFORCEMENT AND PAD** 3,517,466 A 6/1970 Bouvier
 3,591,884 A 7/1971 Grueb
 3,686,703 A 8/1972 Ray
 3,823,516 A 7/1974 Christian
 3,934,377 A 1/1976 Tertinek
 4,058,936 A * 11/1977 Marton B24B 55/102
 451/359

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(73) Assignee: **HUSQVARNA AB**, Huskvarna (SE)

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

(21) Appl. No.: **29/697,963**

(22) Filed: **Jul. 12, 2019**

Related U.S. Application Data

(62) Division of application No. 29/615,585, filed on Aug. 30, 2017, now abandoned.

(51) **LOC (13) Cl.** **08-05**

(52) **U.S. Cl.**
 USPC **D8/70**

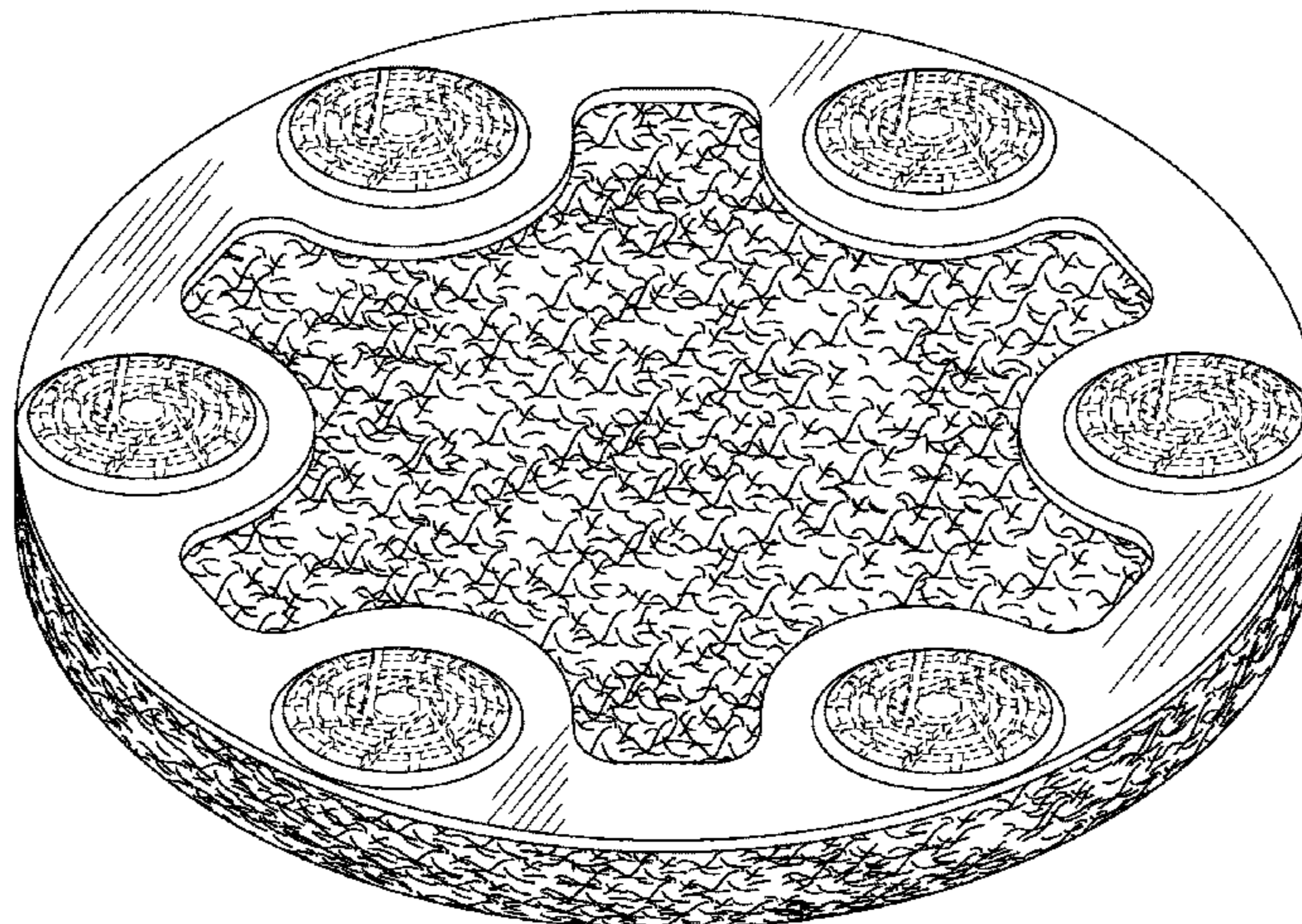
(58) **Field of Classification Search**
 USPC D8/20, 61, 62, 63, 70; D15/124, 125, D15/126, 132, 138, 139, 140
 CPC B24D 9/08; B24B 55/102
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,174,902 A 10/1939 Stratford
 2,225,193 A 12/1940 Benner et al.
 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
 2,963,059 A 12/1960 Grub
 3,121,982 A 2/1964 Miller
 3,452,381 A 7/1969 Bratti
 3,464,166 A 9/1969 Bouvier
 3,487,589 A 1/1970 Binkley

6,196,911 B1 3/2001 Preston et al.
 6,206,771 B1 * 3/2001 Lehman B24B 23/03
 451/345
 6,234,886 B1 5/2001 Rivard et al.
 6,261,164 B1 7/2001 Rivard et al.
 6,298,518 B1 10/2001 Umbrell
 6,299,522 B1 10/2001 Lee
 6,371,842 B1 4/2002 Romero
 6,382,922 B1 5/2002 Lewis et al.
 6,536,989 B2 3/2003 Rijkers
 6,625,951 B1 9/2003 McCarthy
 6,641,627 B2 * 11/2003 Keipert B24D 3/32
 51/296



Diamond Tool Supply, Inc., Various polishing and grinding parts, www.diamondtoolsupply.com, published prior to Sep. 24, 2015, 26 pages.

HTC, "Professional Floor Systems" Product catalog 2014, www.htc-floorsystems.com, 2014.

HTC, "Professional Floor Systems" Product catalogue 2015, www.htc-floorsystems.com, 2015.

Si GmbH, The System Manufacturer, Brochure Edition 12, Jan. 2017, 83 pages.

Wagman Metal Products Inc., "Concrete Finishing Tools" Catalog, (published prior to Sep. 23, 2016).

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.

* cited by examiner

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(57) **CLAIM**

The ornamental design for a polishing or grinding pad assembly with abrasive disks, reinforcement and pad, as shown and described.

DESCRIPTION

FIG. 1 is a bottom perspective view of a polishing or grinding pad assembly with abrasive disks, reinforcement and pad embodying my new design in accordance to a first embodiment;

FIG. 2 is a bottom plan view thereof;

FIG. 3 is a top plan view thereof;

FIG. 4 is a front elevation view thereof;

FIG. 5 is a rear elevation view thereof;

FIG. 6 is a right side elevation view thereof;

FIG. 7 is a left side elevation view thereof;

FIG. 8 is an enlarged and partial cross-sectional view thereof showing the abrasive disks and reinforcement pad with parallel surfaces, as taken along line 8-8 in FIG. 3; and

FIG. 9 is an enlarged and partial cross-sectional view thereof showing the abrasive disks and reinforcement pad with tapered surfaces, as taken along line 8-8 in FIG. 3.

FIG. 10 is a bottom perspective view of a polishing or grinding pad assembly with abrasive disks, reinforcement and pad embodying my new design in accordance to a second embodiment;

FIG. 11 is a bottom plan view thereof;

FIG. 12 is a top plan view thereof;

FIG. 13 is a front elevation view thereof;

FIG. 14 is a rear elevation view thereof;

FIG. 15 is a right side elevation view thereof;

FIG. 16 is a left side elevation view thereof;

FIG. 17 is an enlarged and partial cross-sectional view thereof showing the abrasive disks and reinforcement pad with parallel surfaces, as taken along line 17-17 in FIG. 12; and,

FIG. 18 is an enlarged and partial cross-sectional view thereof showing the abrasive disks and reinforcement pad with tapered surfaces, as taken along line 17-17 in FIG. 12.

The broken lines in the drawings illustrate portions of the polishing or grinding pad assembly with abrasive disks, reinforcement and pad that form no part of the claimed design.

1 Claim, 14 Drawing Sheets

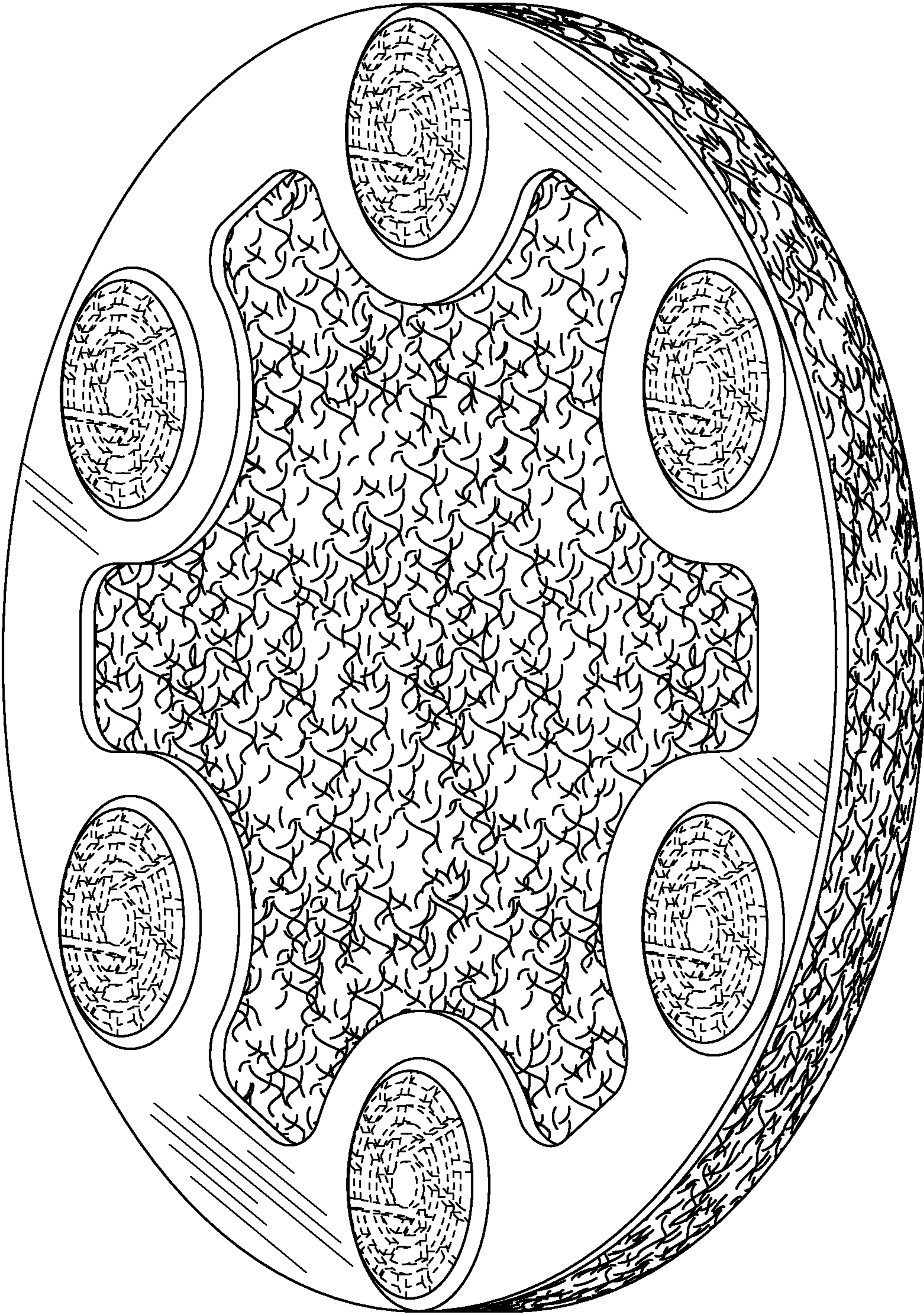


FIG. 1

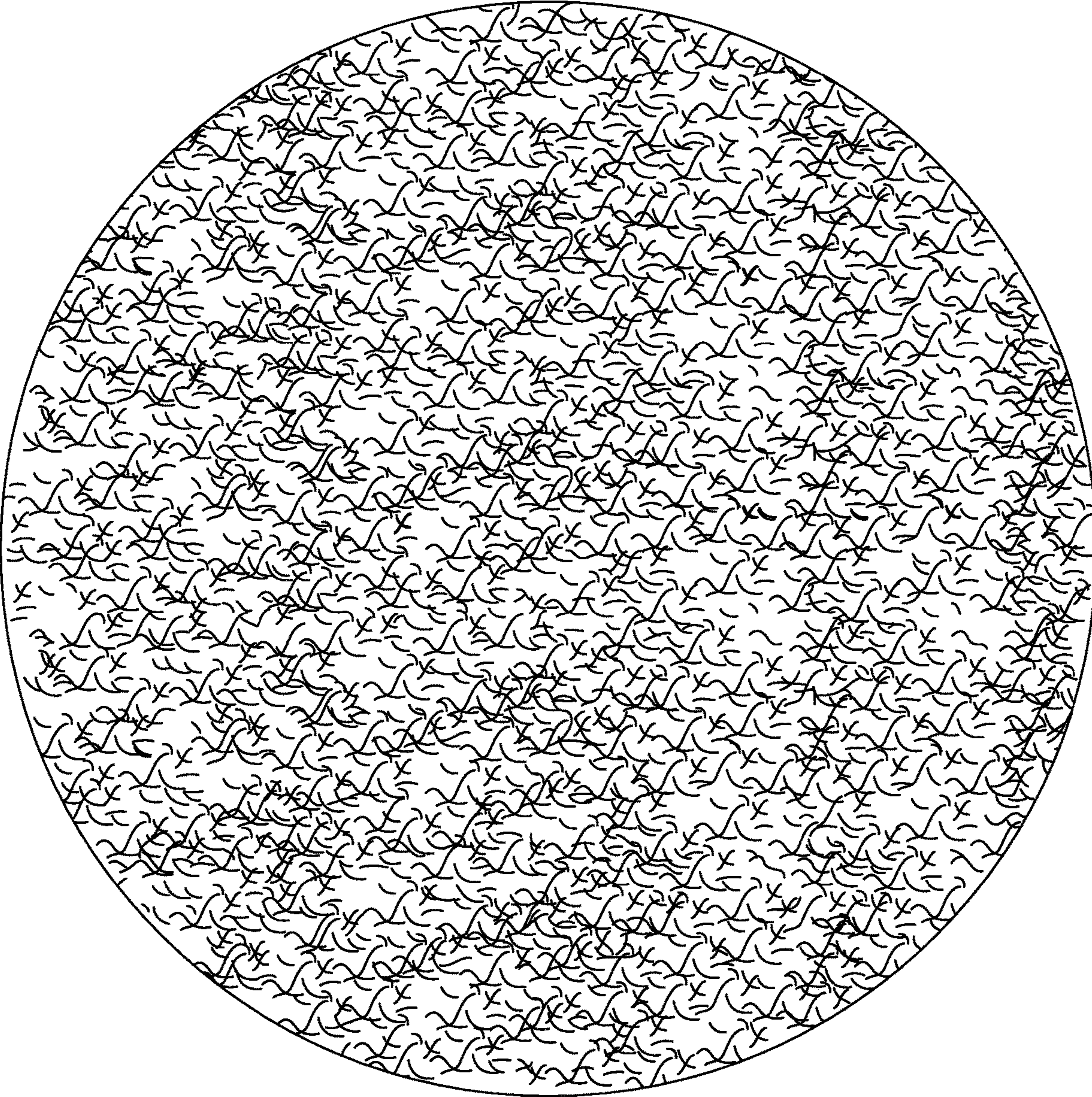


FIG. 2

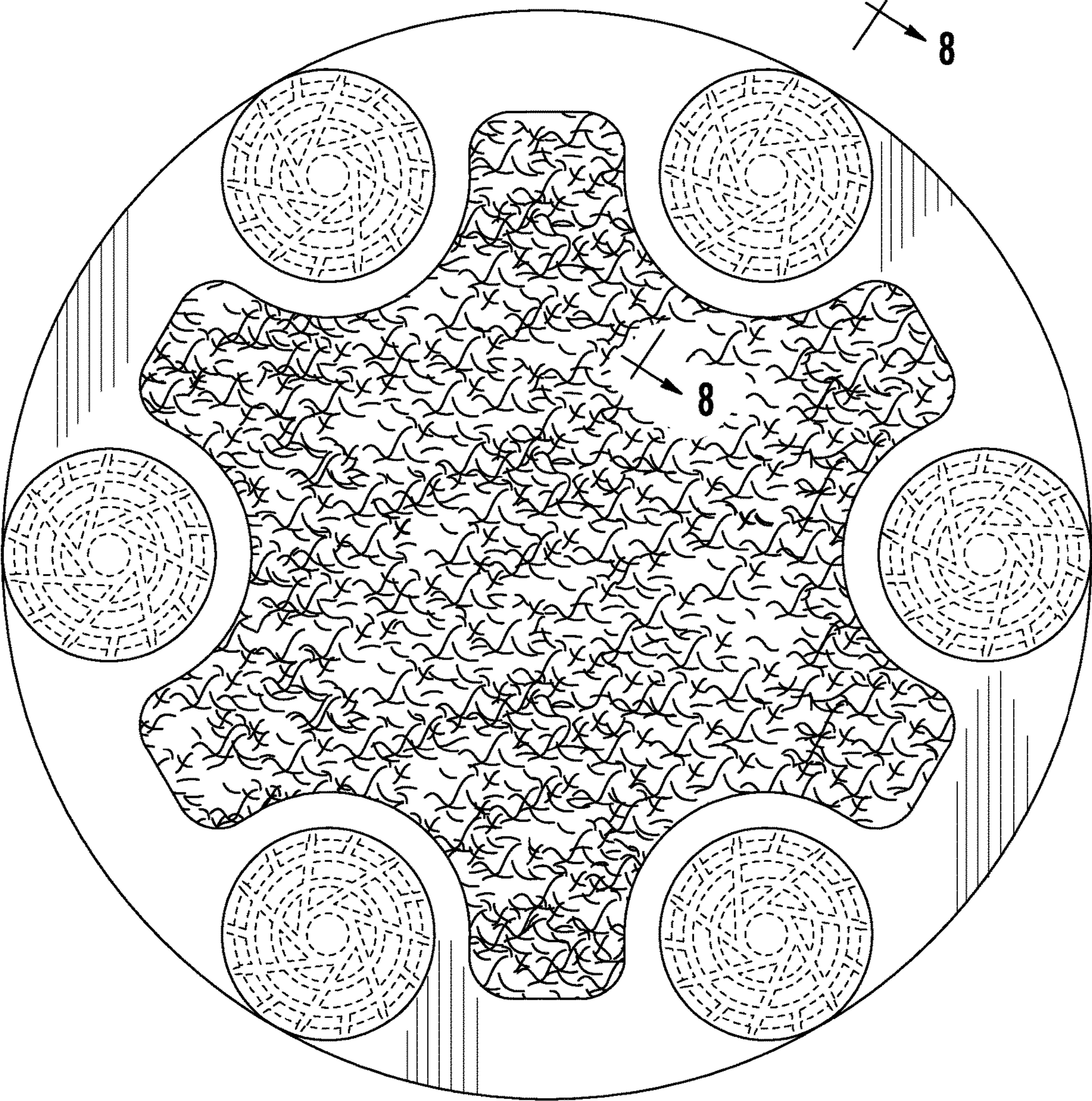


FIG. 3

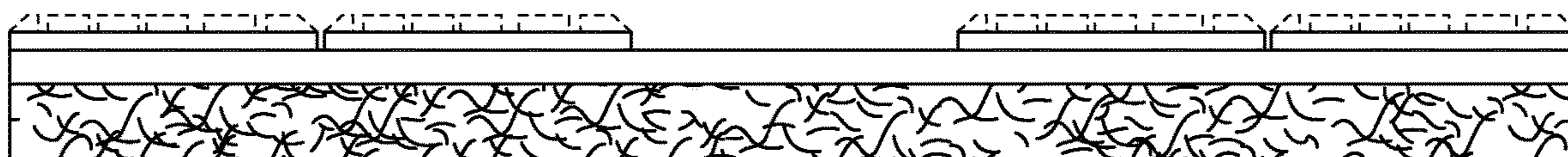


FIG. 4

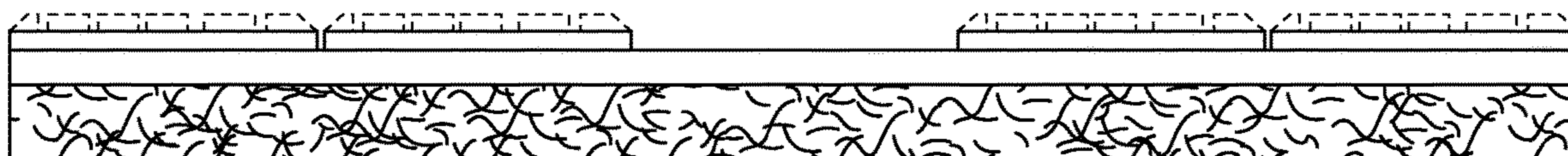


FIG. 5

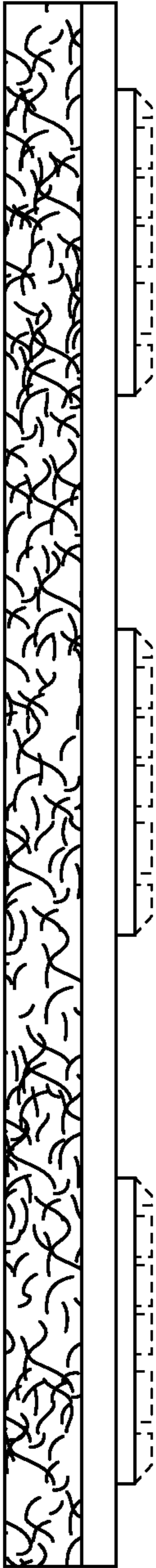


FIG. 6

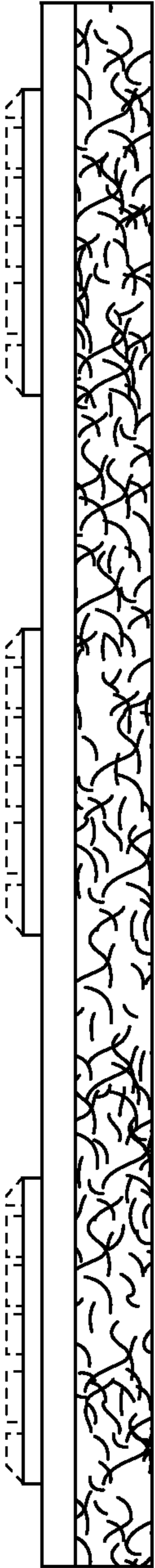


FIG. 7

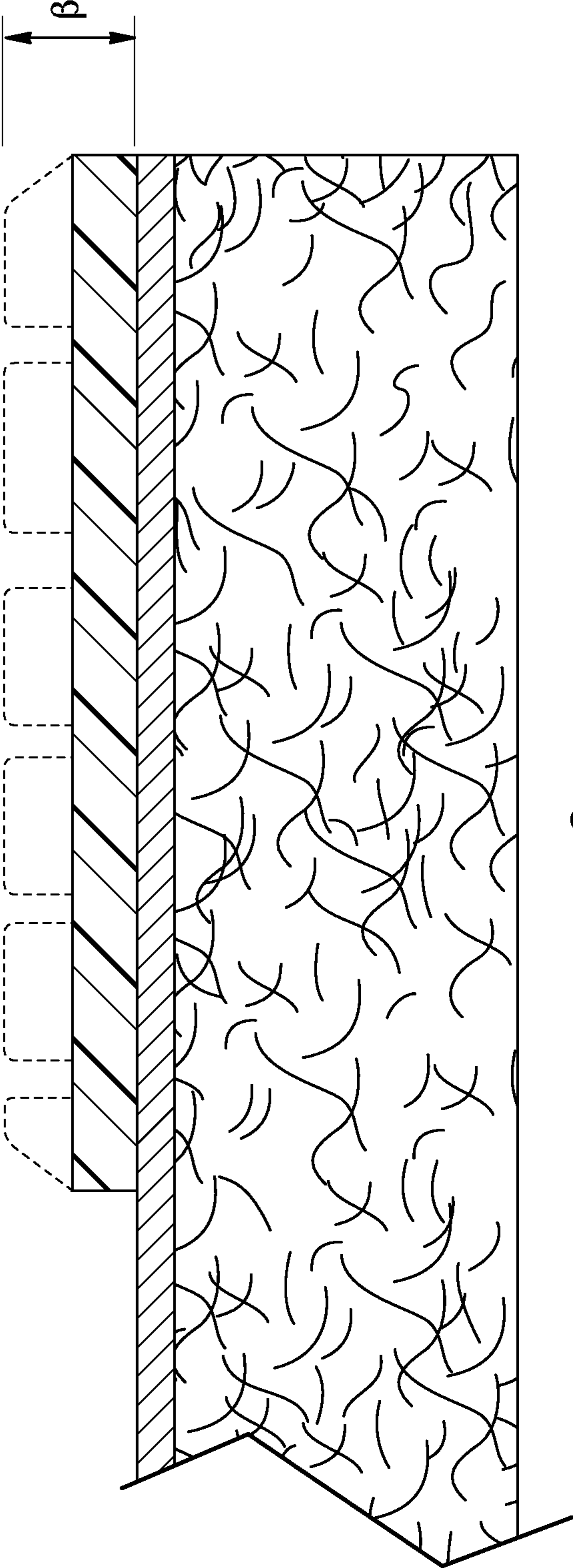


FIG. 8

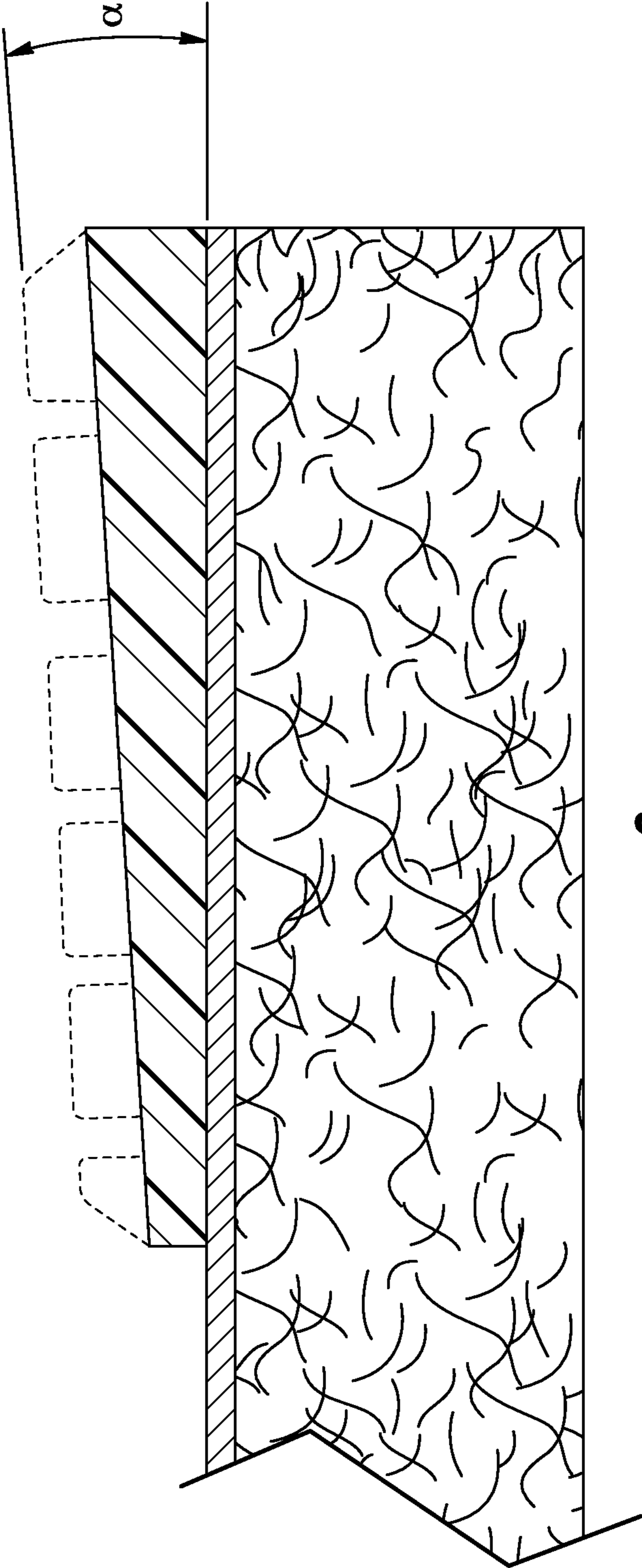


FIG. 9

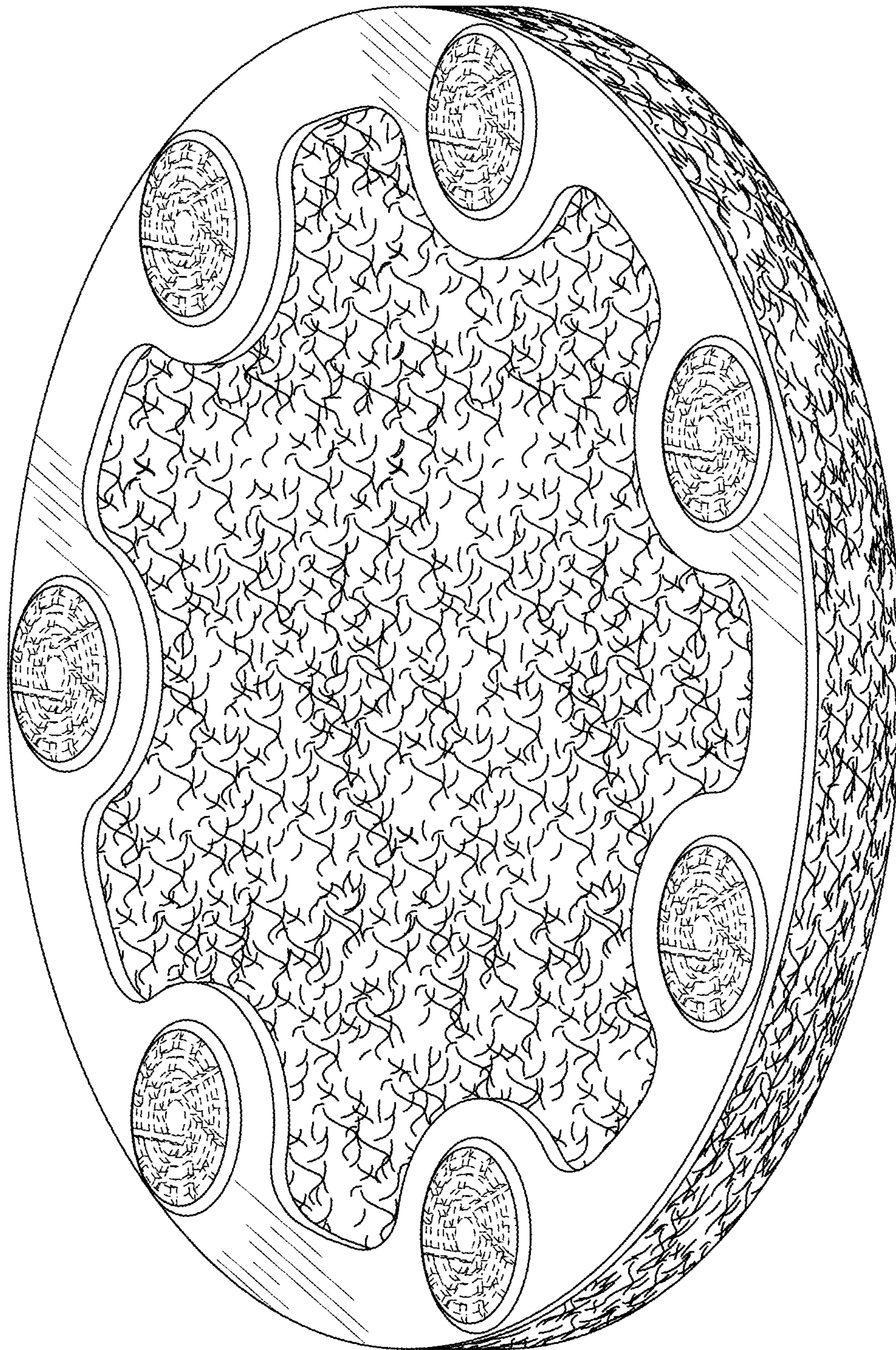


FIG. 10

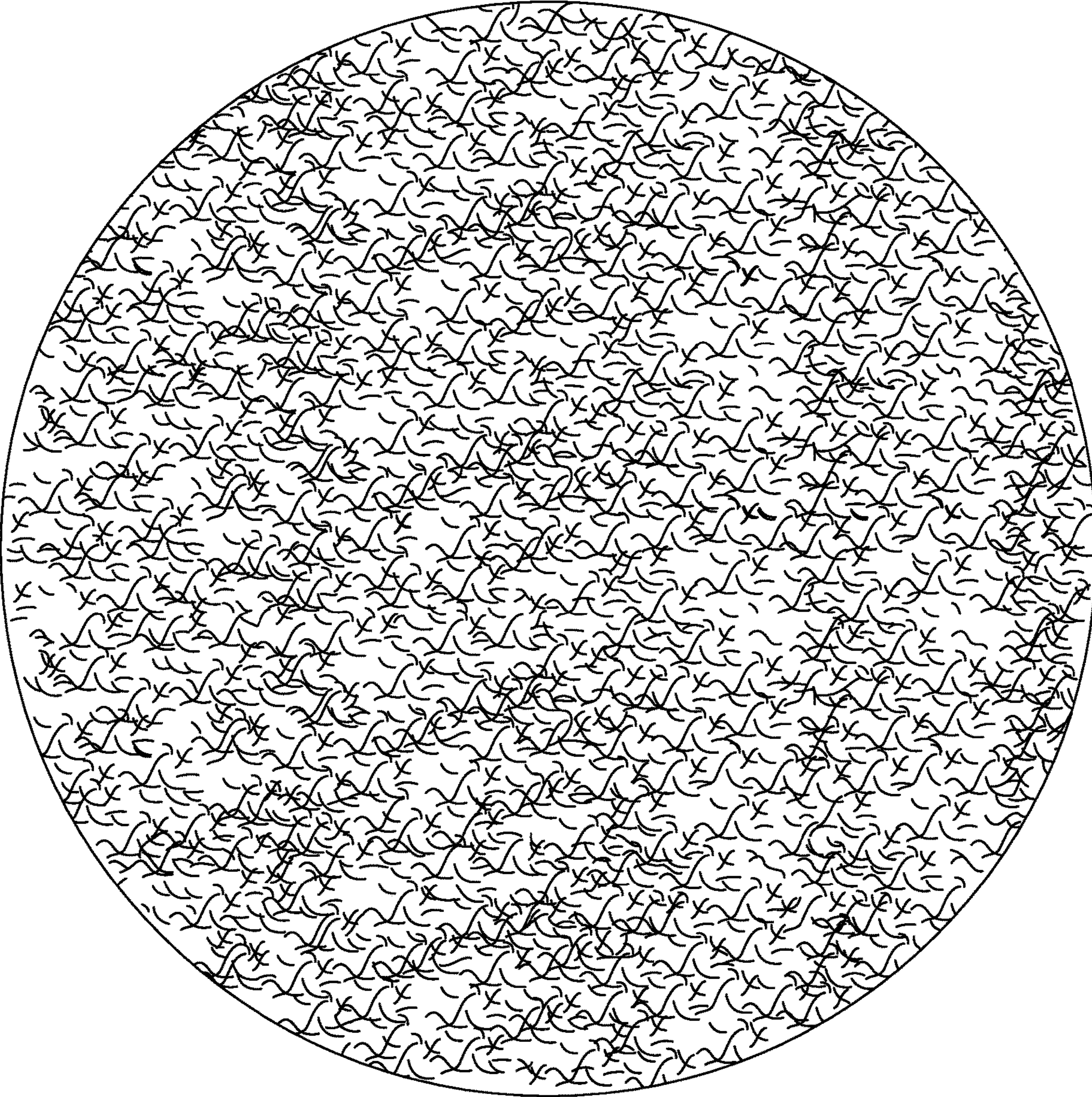


FIG. 11

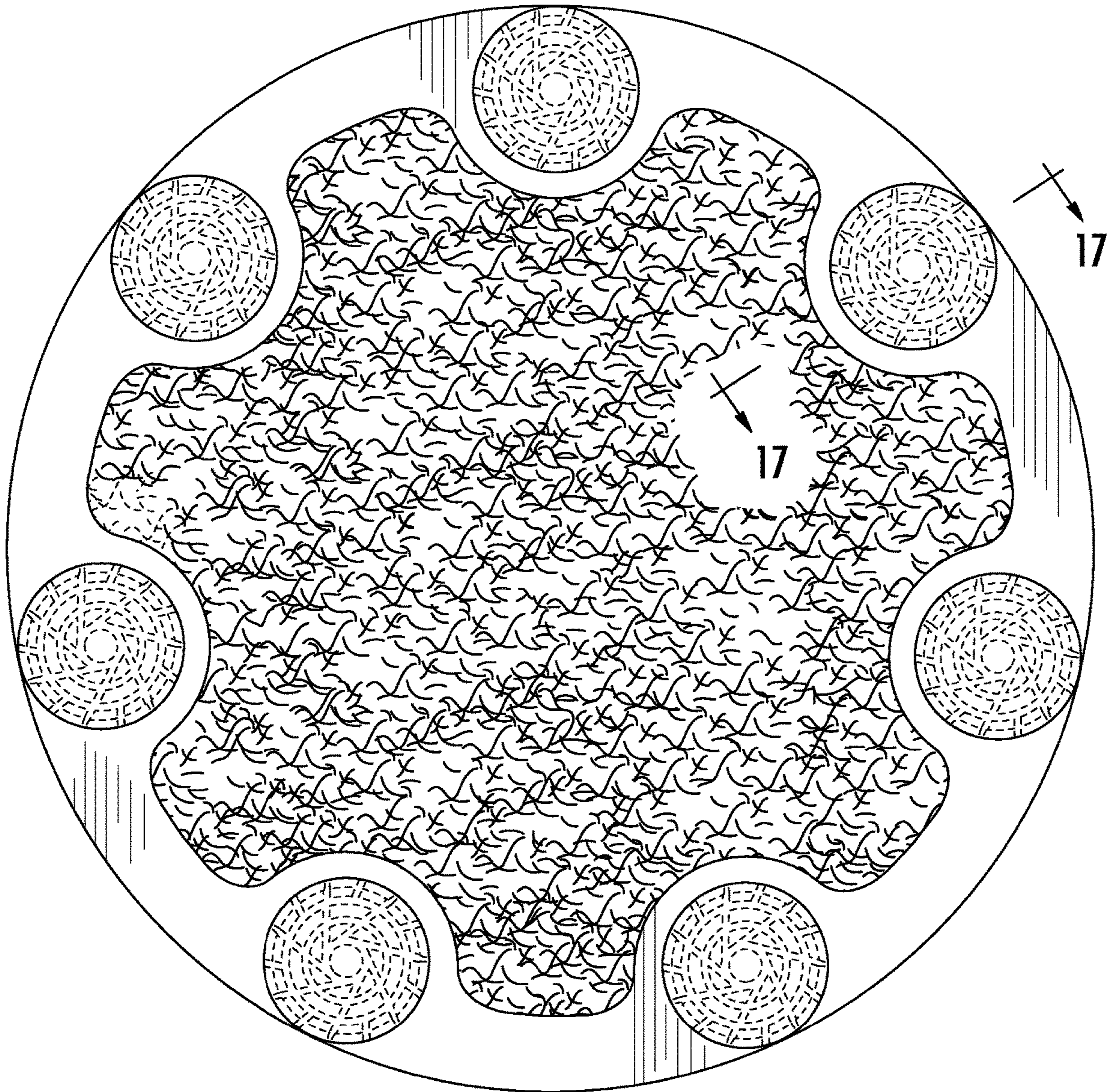


FIG. 12

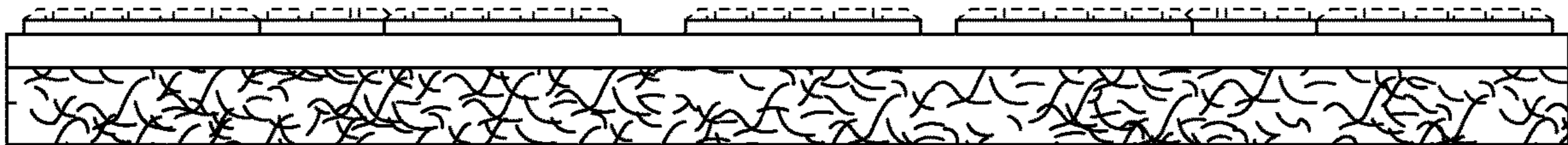


FIG. 13

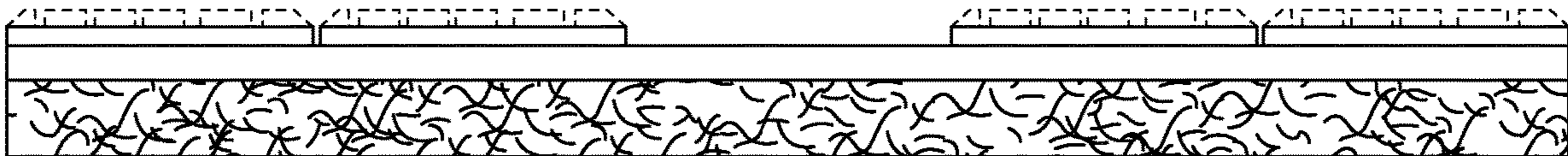


FIG. 14

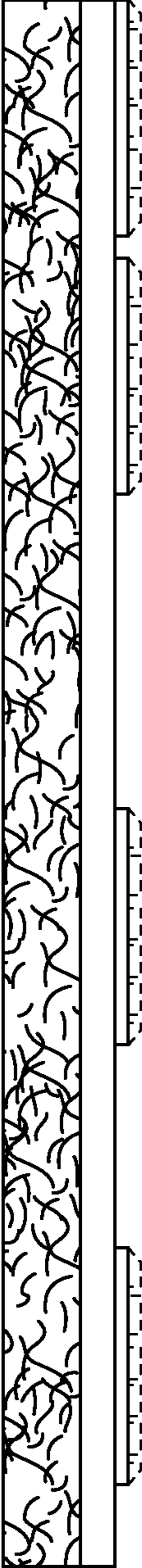


FIG. 15

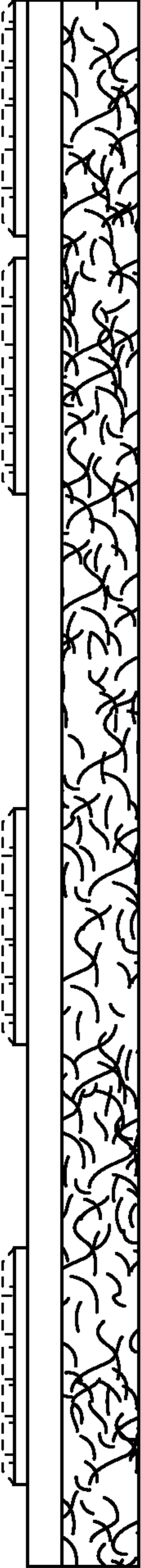


FIG. 16

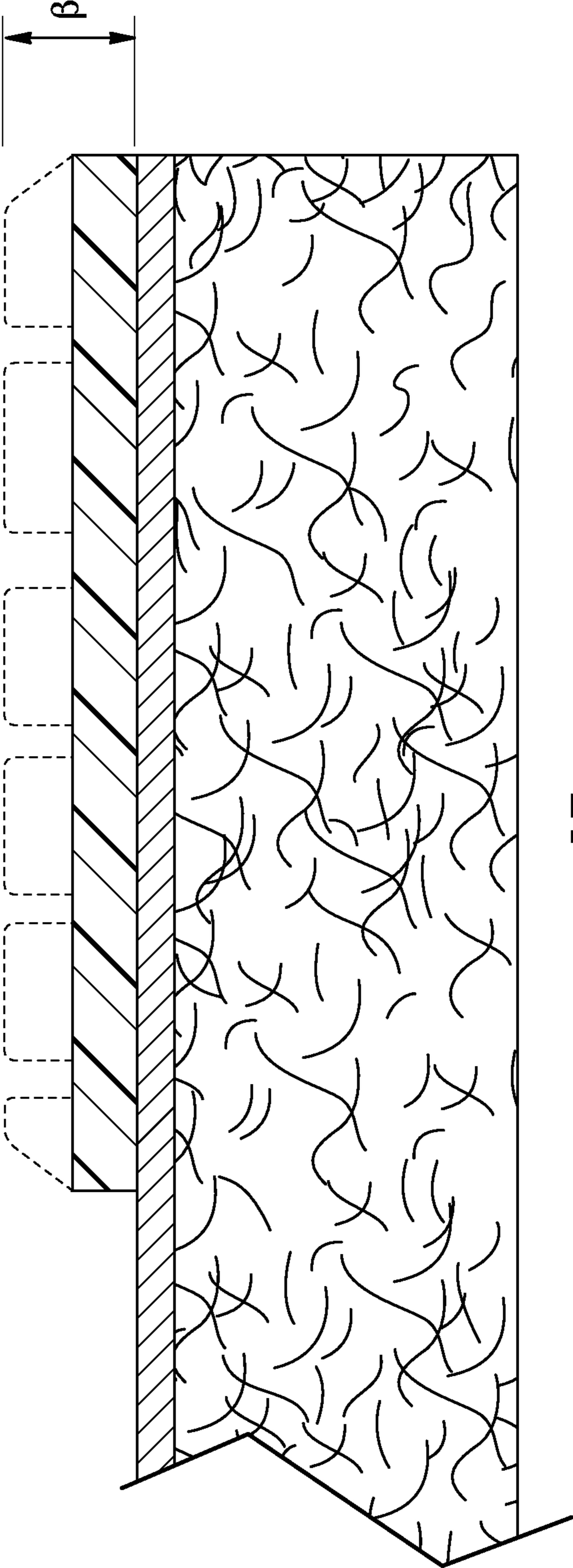


FIG. 17

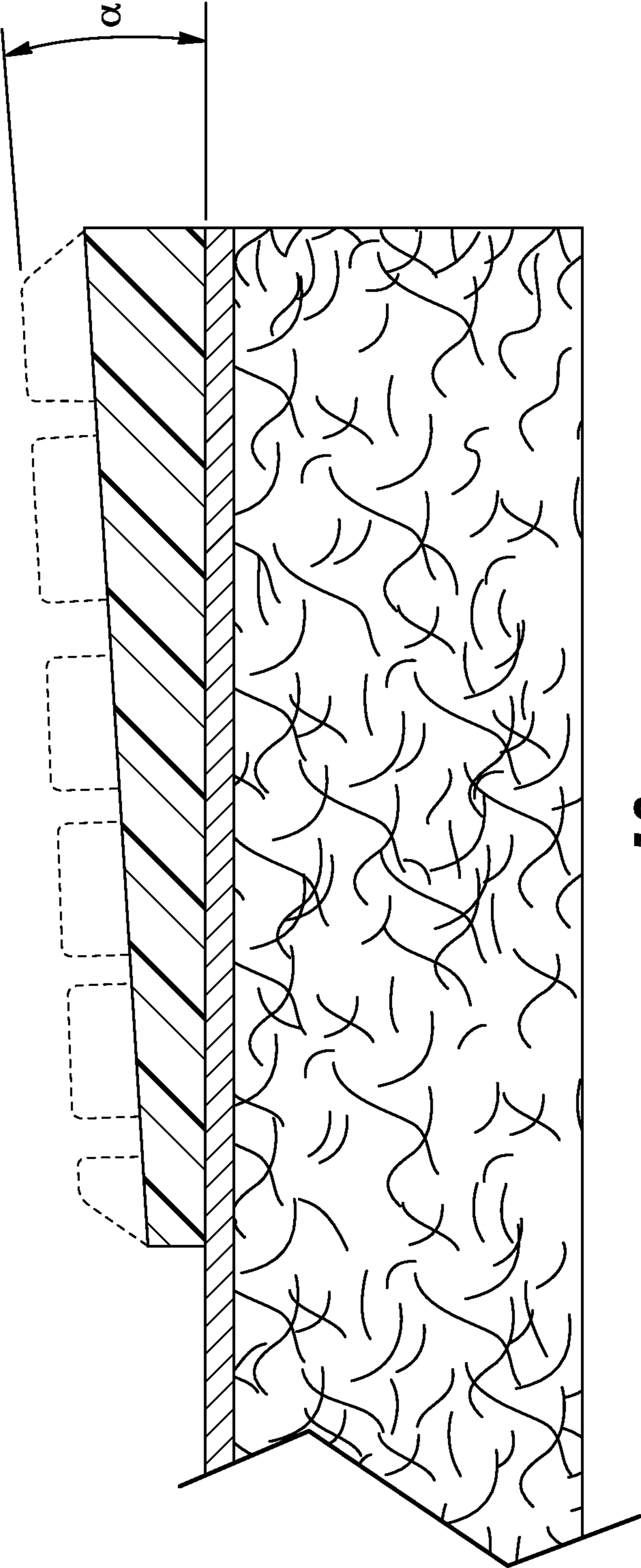


FIG. 18