



US00D837399S

(12) **United States Design Patent** (10) **Patent No.:** **US D837,399 S**
Hatakeyama et al. (45) **Date of Patent:** **** Jan. 1, 2019**

(54) **CELL CULTURE VESSEL**

(71) Applicant: **FUJIFILM Corporation**, Tokyo (JP)

(72) Inventors: **Koichi Hatakeyama**, Ashigarakami-gun (JP); **Akihiko Ichikawa**, Ashigarakami-gun (JP); **Takayoshi Kuwabara**, Ashigarakami-gun (JP)

(73) Assignee: **FUJIFILM Corporation**, Minato-Ku, Tokyo (JP)

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

(21) Appl. No.: **29/619,102**

(22) Filed: **Sep. 27, 2017**

(30) **Foreign Application Priority Data**

Mar. 31, 2017 (JP) 2017-006923

(51) **LOC (11) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/224**

(58) **Field of Classification Search**
USPC D24/224-226, 229-230; D10/81; D25/157, 160
CPC . A61B 10/00; A61B 10/0045; A61B 10/0058; A61B 10/007; A61B 10/0096; A61B 5/20; A61D 19/021; A61F 5/00; B01L 3/50; B01L 3/502; B01L 3/50273; B01L 3/50255; B01L 3/5085; B01L 3/50853; C12M 23/12; C12M 23/20; C12M 23/24; C12M 23/38; C12M 23/58; C12M 33/14; C30B 7/00; G01N 21/03; G01N 21/29; G01N 21/253; G01N 21/6428; G01N 21/6454; G01N 21/77; G01N 33/48728; G01N 33/5005; G01N 33/5008; G01N 33/5039; G01N 33/5058; G01N 33/523; G01N 33/528; G01N 33/54313; G01N 33/54326; G01N 33/54366; G01N 33/558; G01N 33/77; G01F 19/00; E40F 2203/00; E04F 15/18; E04F 15/22; E04F 15/225

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,965,219 A * 12/1960 Rhodin B01L 3/5085
206/488
D252,157 S * 6/1979 Kronish D24/226
D252,341 S * 7/1979 Thomas D24/226
4,246,339 A * 1/1981 Cole B01L 3/50255
422/534

(Continued)

Primary Examiner — Ian Simmons

Assistant Examiner — Samantha Q. Lawrence

(74) *Attorney, Agent, or Firm* — Sughrue Mion, PLLC

(57) **CLAIM**

The ornamental design for a cell culture vessel, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a cell culture vessel, showing the new design;

FIG. 2 is a front view thereof.

FIG. 3 is a rear view thereof.

FIG. 4 is a right side view thereof.

FIG. 5 is a left side view thereof.

FIG. 6 is a top view thereof.

FIG. 7 is a bottom view thereof.

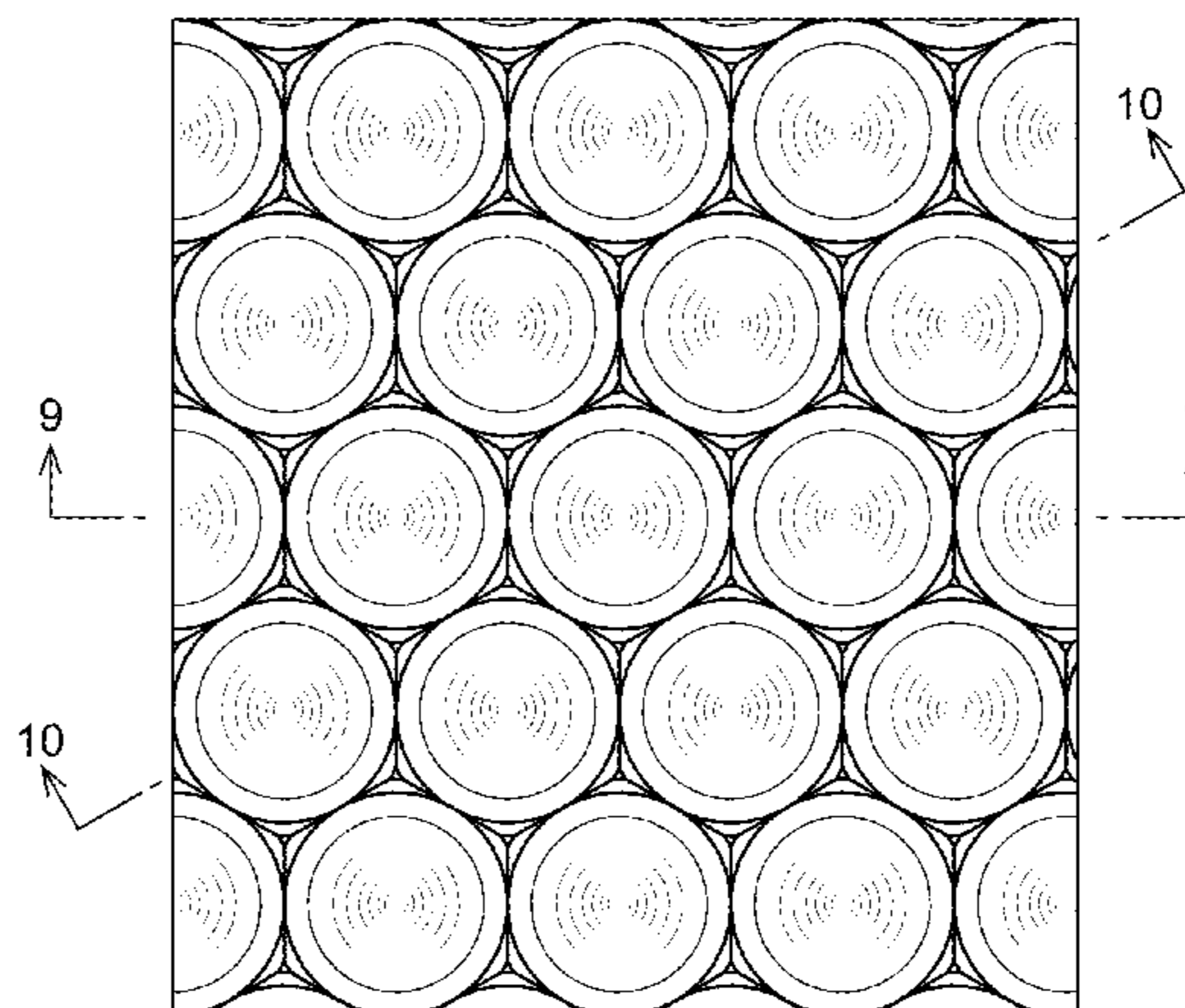
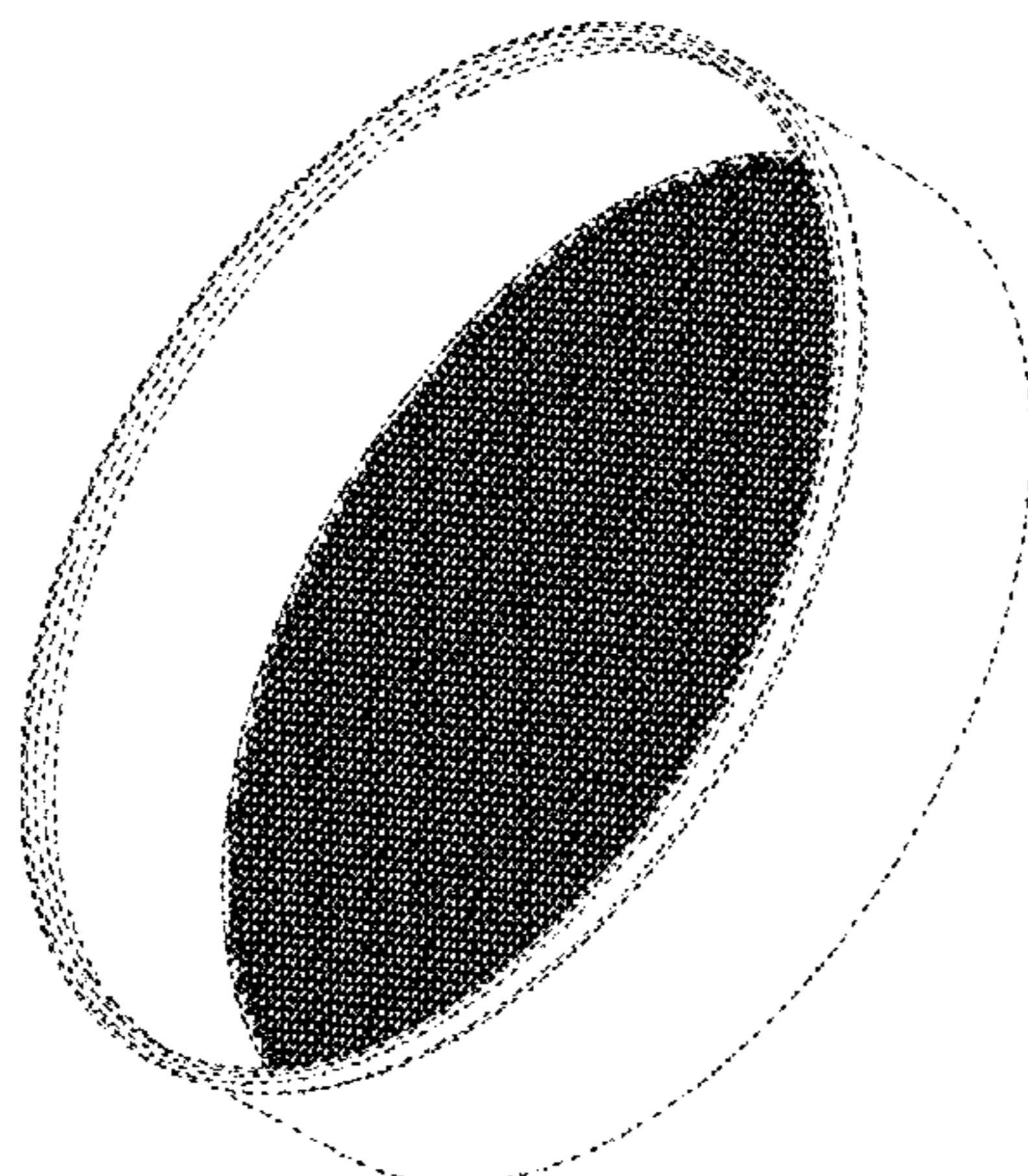
FIG. 8 is an enlarged view of the square lying at the intersection of the horizontal and vertical lines marked 8 in FIG. 6.

FIG. 9 is an end view of a cross-section taken along 9-9 in FIG. 8; and,

FIG. 10 is an end view of a cross-section taken along 10-10 in FIG. 8.

The broken lines are included for the purpose of illustrating portions of the cell culture vessel that form no part of the claimed design.

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D279,817 S * 7/1985 Chen D24/225
 4,673,657 A * 6/1987 Christian B01L 3/50273
 422/301
 D292,230 S * 10/1987 Holen D24/225
 5,002,889 A * 3/1991 Klein B01L 3/5085
 422/513
 D414,272 S * 9/1999 O'Bear D24/224
 D421,129 S * 2/2000 Haynes D24/226
 6,039,804 A * 3/2000 Kim C30B 7/00
 117/206
 6,238,911 B1 * 5/2001 Kasahara B01L 3/50853
 356/246
 6,878,345 B1 * 4/2005 Astle B01L 3/50853
 422/500
 D530,021 S * 10/2006 Muraca D24/226
 D534,658 S * 1/2007 Bargh D24/229
 RE40,209 E * 4/2008 Sugihara C12M 41/46
 204/403.01
 D621,060 S * 8/2010 Handique D24/225
 7,820,430 B2 * 10/2010 Weng C12M 23/12
 422/130
 D628,305 S * 11/2010 Gorrec D24/229
 D636,891 S * 4/2011 Nicholls D24/225
 7,951,584 B2 * 5/2011 Saito C12M 25/01
 435/297.1

D639,977 S * 6/2011 Francis D24/225
 D650,091 S * 12/2011 Odeh D24/225
 D676,145 S * 2/2013 Kouge D24/225
 8,377,710 B2 * 2/2013 Whitesides G01N 33/523
 422/420
 D686,337 S * 7/2013 Tarunina D24/224
 D733,313 S * 6/2015 Kouge D24/225
 D767,161 S * 9/2016 Schimmel D24/226
 D794,210 S * 8/2017 Jarvius D24/225
 2007/0048731 A1 * 3/2007 Colicos G01N 33/5008
 435/4
 2009/0298116 A1 * 12/2009 Fang B01L 3/5085
 435/29
 2009/0298166 A1 * 12/2009 Fang B01L 3/50857
 435/305.2
 2010/0019782 A1 * 1/2010 Watanabe G01N 33/48728
 324/692
 2010/0055790 A1 * 3/2010 Simon C12M 23/08
 435/383
 2013/0004967 A1 * 1/2013 Halverson B01L 3/50853
 435/7.8
 2015/0126411 A1 * 5/2015 Garcia-Cardena C12M 23/12
 506/27
 2016/0178624 A1 * 6/2016 Lesser G01N 33/54313
 506/9
 2016/0222335 A1 * 8/2016 Akai C12M 21/06
 2017/0198248 A1 * 7/2017 Kinuta C12M 33/14
 2017/0267960 A1 * 9/2017 Tsukada C12M 23/12

* cited by examiner

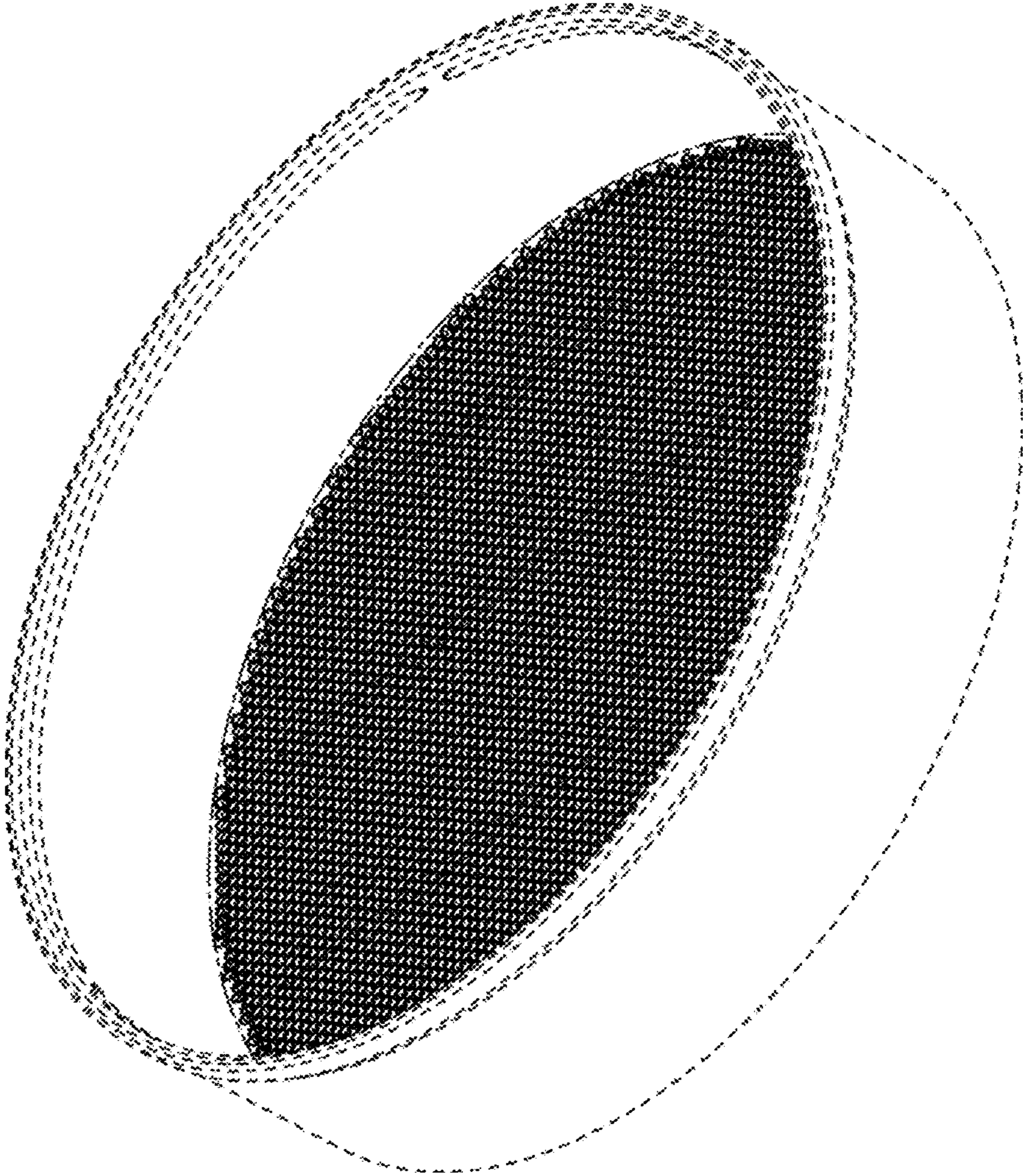


FIG. 1

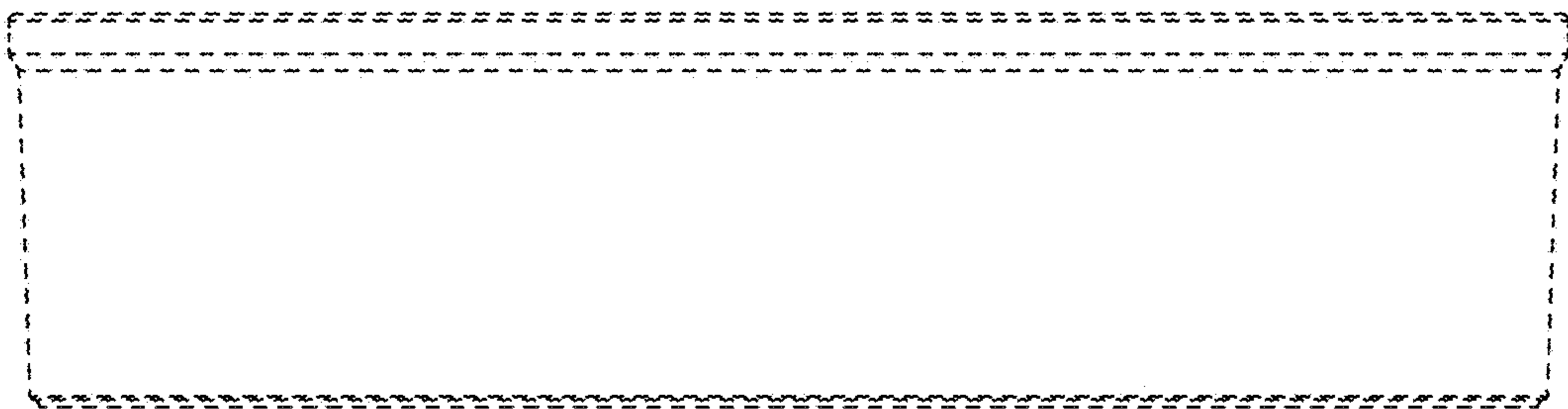


FIG. 2

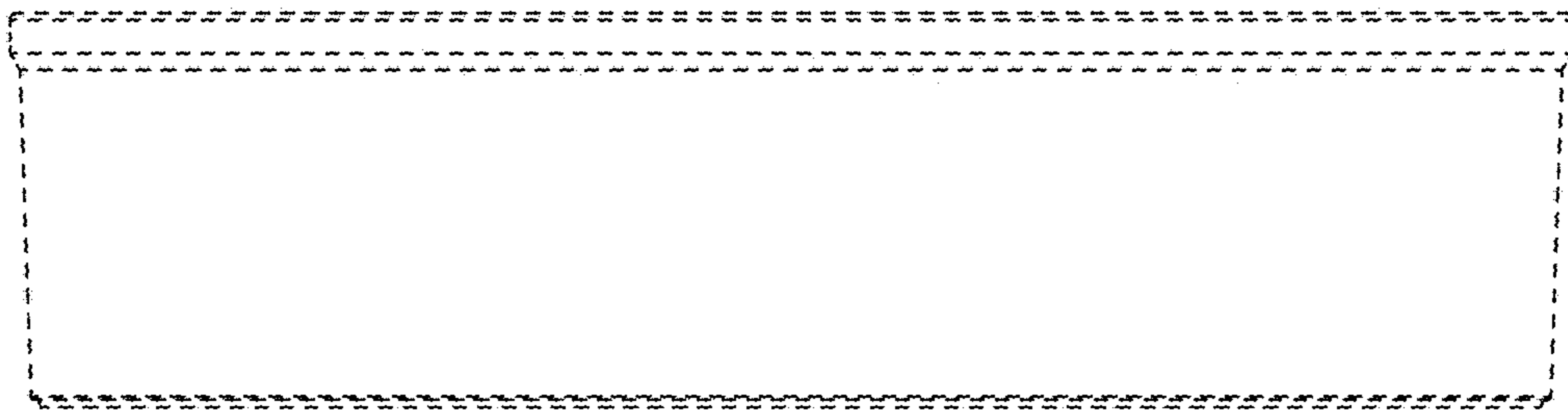


FIG. 3

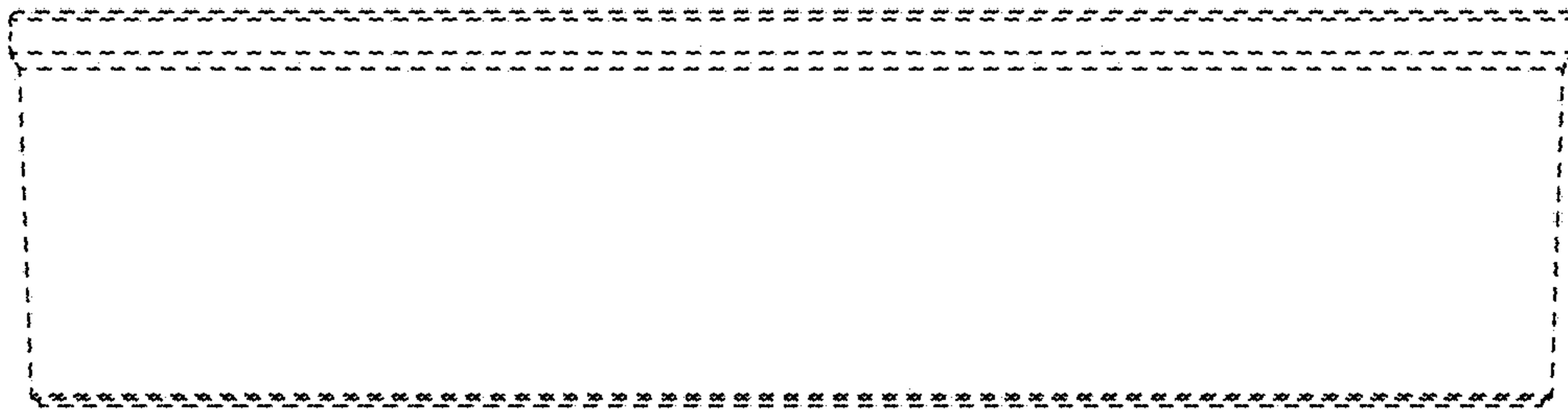


FIG. 4

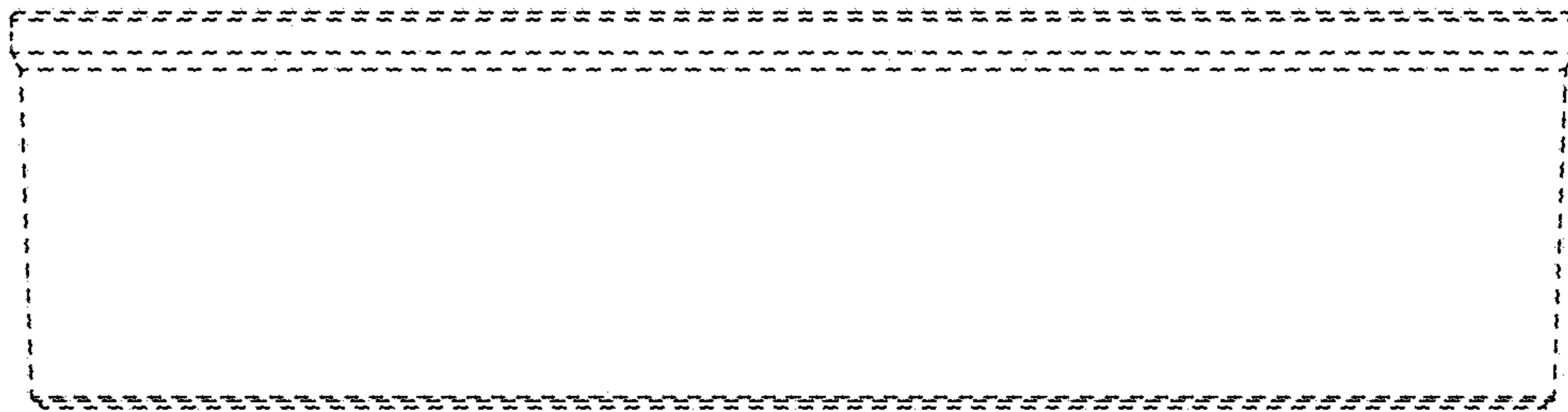


FIG. 5

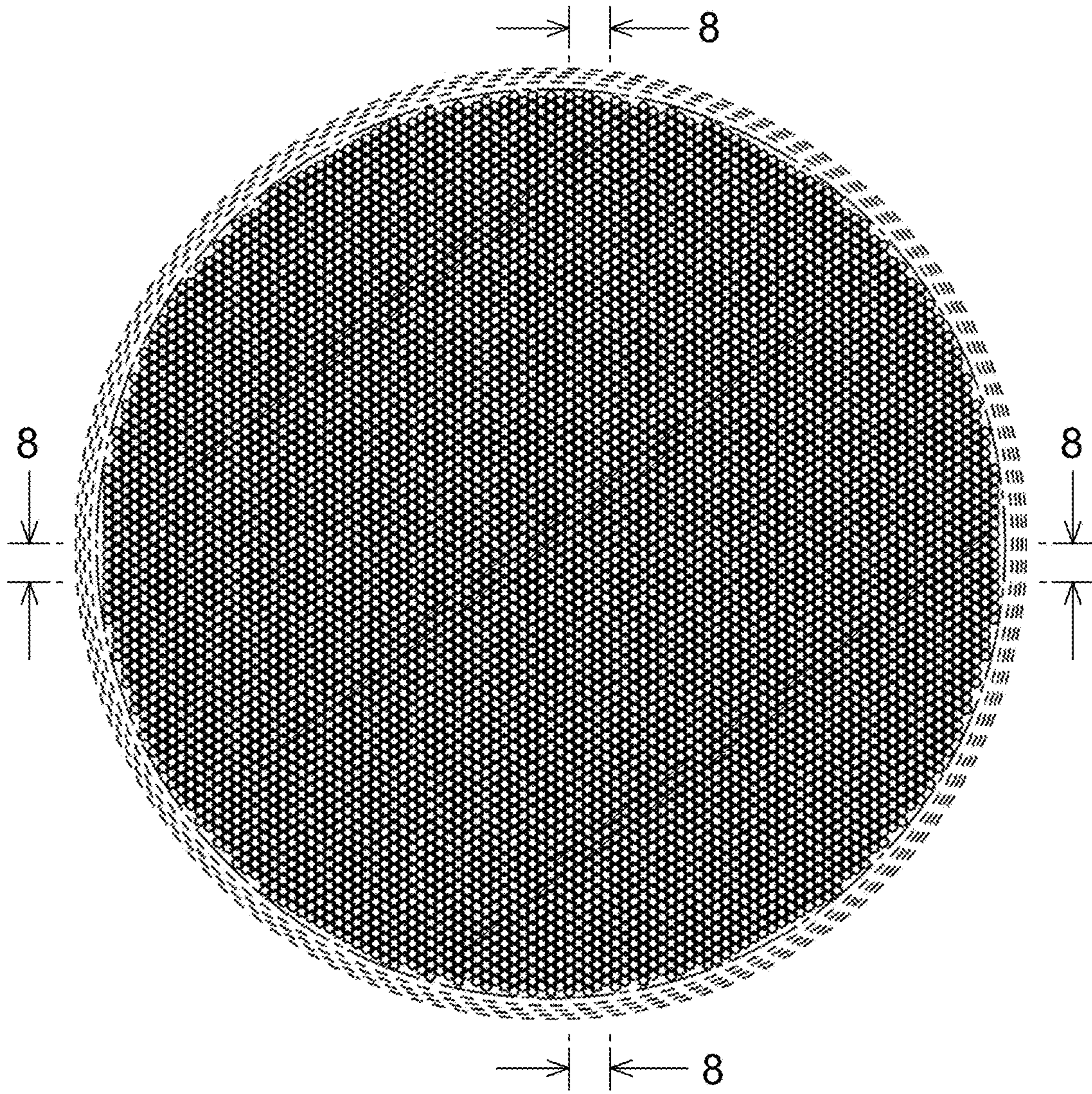


FIG. 6

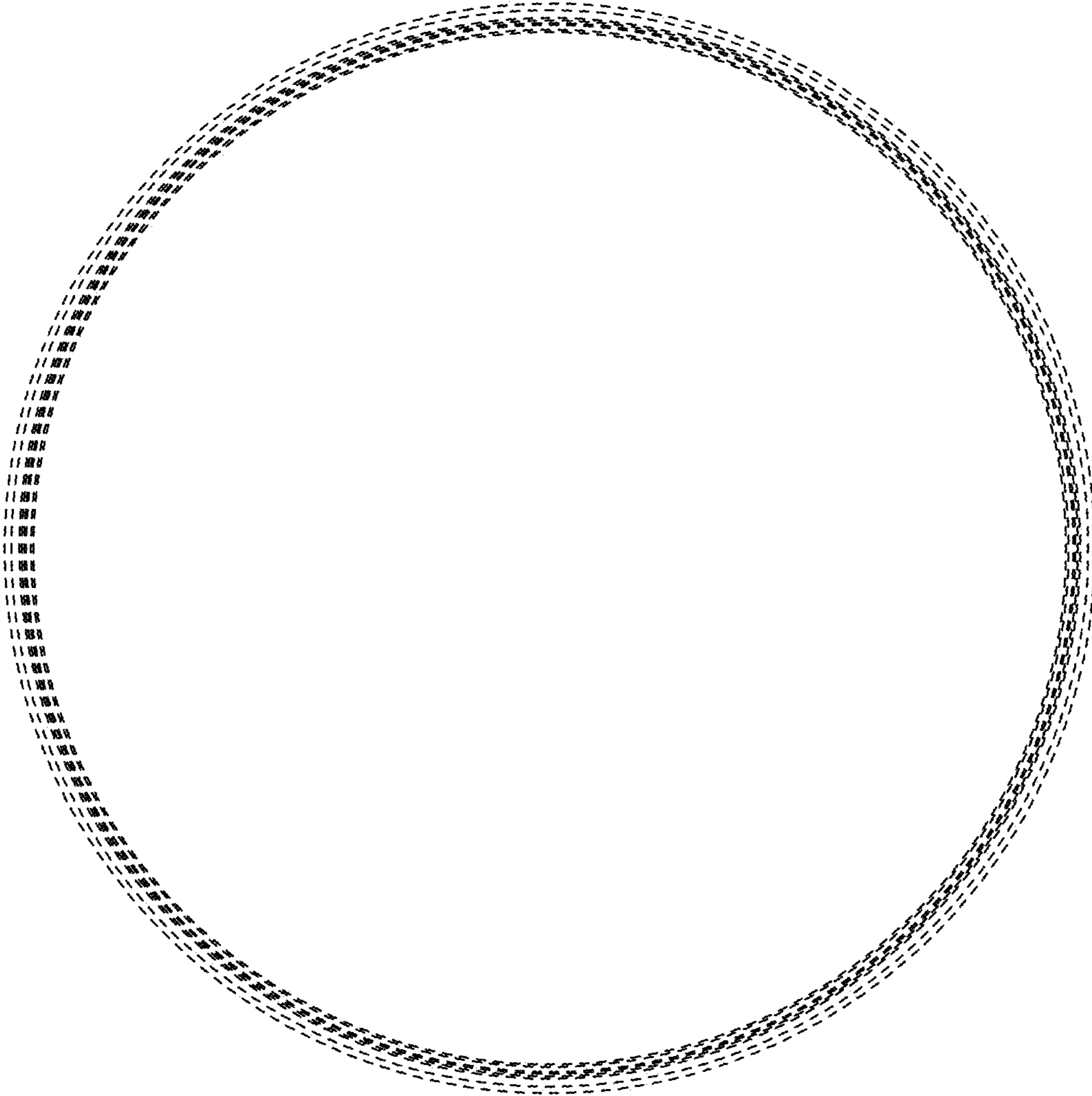


FIG. 7

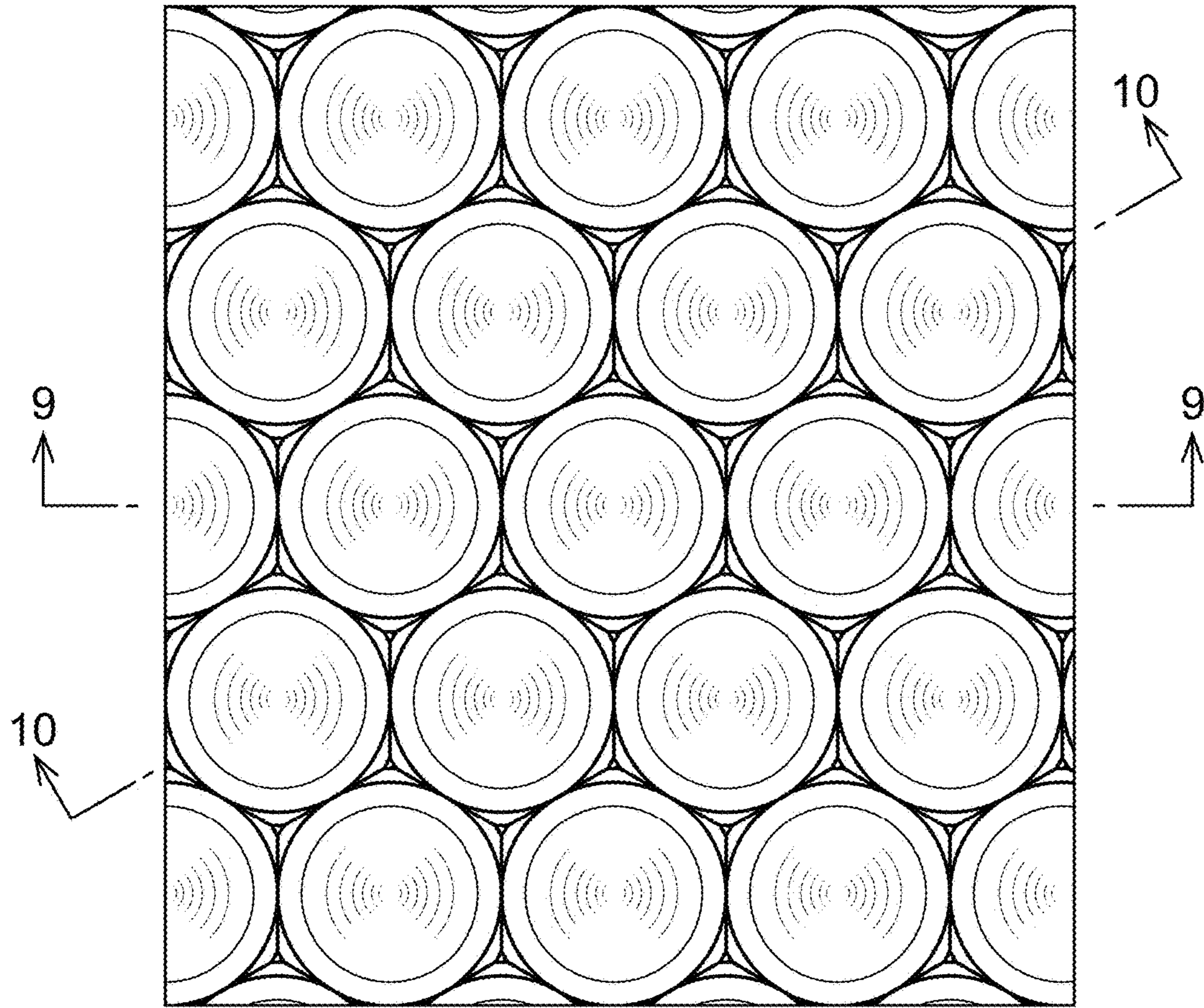


FIG. 8

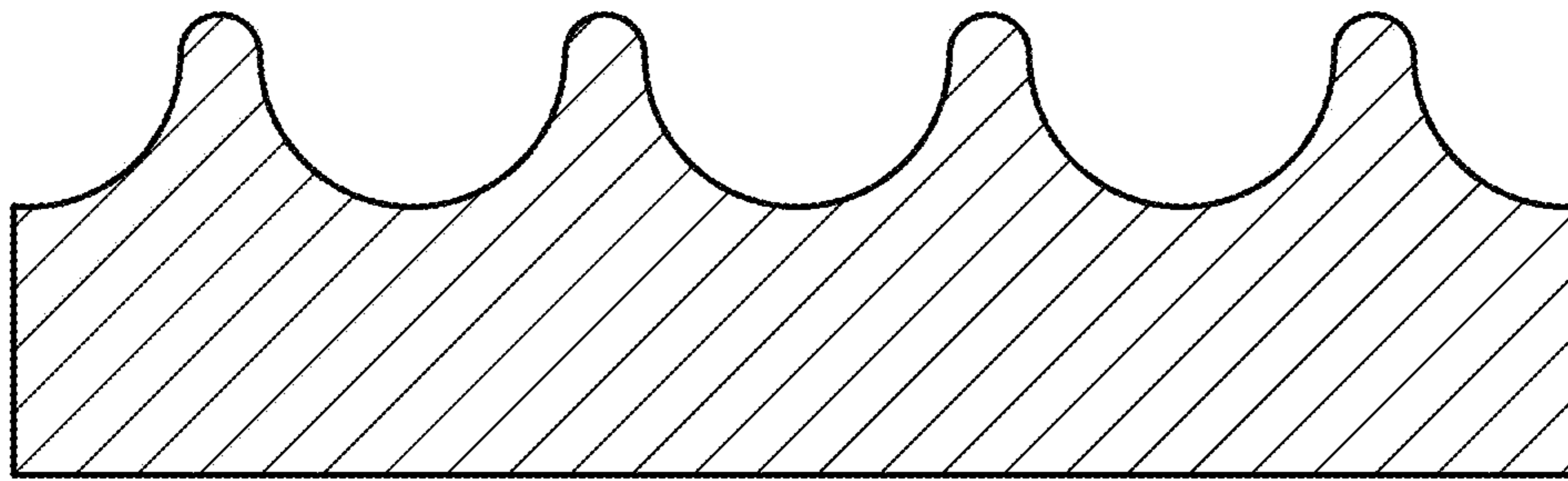


FIG. 9

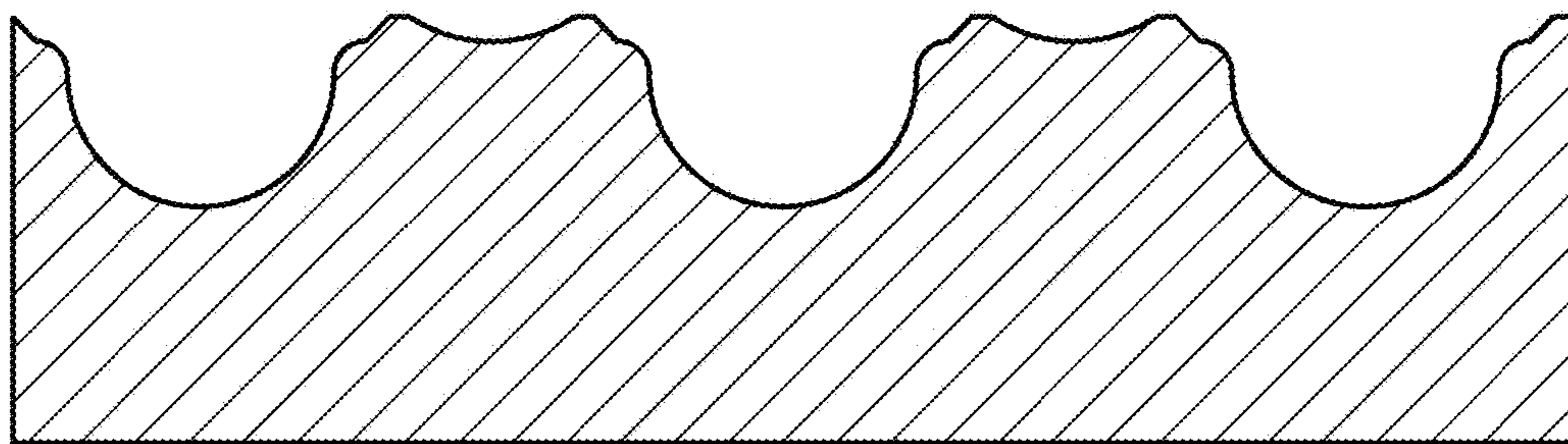


FIG. 10