



US00D942623S

(12) **United States Design Patent** (10) **Patent No.:** **US D942,623 S**  
**Cain** (45) **Date of Patent:** **\*\* Feb. 1, 2022**

(54) **SPINAL IMPLANT**  
(71) Applicant: **MIRUS LLC**, Marietta, GA (US)  
(72) Inventor: **David Brett Cain**, Marietta, GA (US)  
(73) Assignee: **MIRUS LLC**, Marietta, GA (US)  
(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/758,298**  
(22) Filed: **Nov. 13, 2020**  
(51) **LOC (13) Cl.** ..... **24-03**  
(52) **U.S. Cl.**  
USPC ..... **D24/155**  
(58) **Field of Classification Search**  
USPC ..... D24/155  
CPC ..... A61F 2/4611; A61F 2/442; A61F 2/447;  
A61F 2220/0025; A61F 2310/00023;  
A61F 2310/00017; A61F 2002/4475;  
A61F 2002/30841; A61F 2002/2835;  
A61F 2002/30904; A61F 2002/30785;  
A61F 2002/443; A61F 2002/30578  
See application file for complete search history.

9,681,966 B2 6/2017 Knapp et al.  
9,700,431 B2 6/2017 Nebosky et al.  
9,724,203 B2 8/2017 Nebosky et al.  
D809,661 S 2/2018 Mueller  
D815,281 S 4/2018 Chang et al.  
10,271,958 B2 4/2019 Schaulfer et al.  
10,369,009 B2\* 8/2019 Joly ..... A61F 2/30734  
D870,288 S 12/2019 Dang  
10,512,545 B2 12/2019 Arnone  
10,517,739 B2 12/2019 Ryan  
10,709,570 B2 7/2020 Stauffer et al.  
10,744,003 B2\* 8/2020 Ryan ..... A61F 2/447  
D920,515 S \* 5/2021 Miller ..... D24/155  
D920,516 S \* 5/2021 Miller ..... D24/155  
D920,517 S \* 5/2021 Miller ..... D24/155  
11,147,679 B2\* 10/2021 Kowalczyk ..... A61F 2/4202  
2009/0048675 A1 2/2009 Bhatnagar et al.  
2012/0197413 A1 8/2012 Kyomoto et al.

(Continued)

*Primary Examiner* — Charles D Hanson  
(74) *Attorney, Agent, or Firm* — Ulmer & Berne LLP;  
Brian E. Turung

(57) **CLAIM**

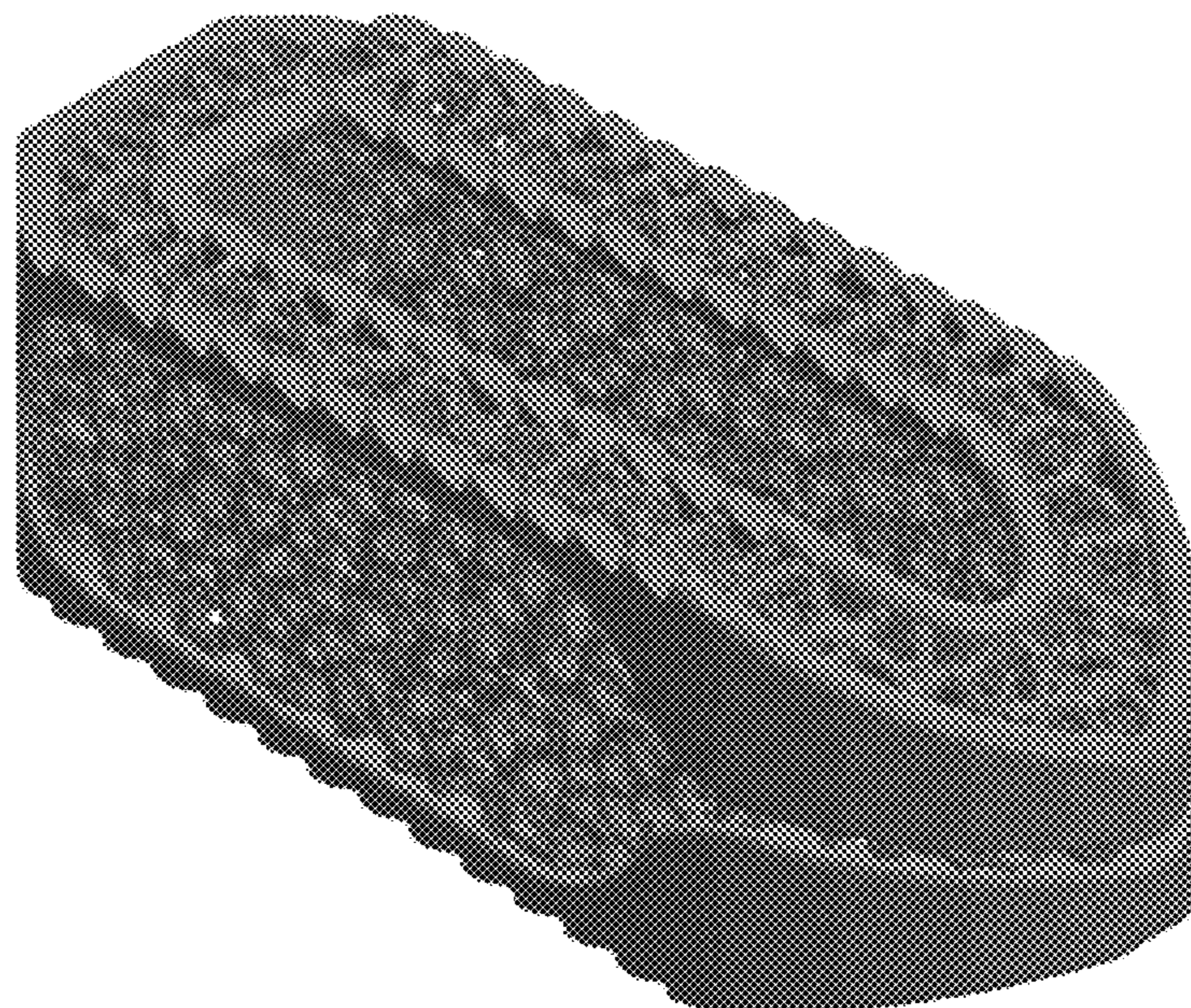
The ornamental design for a spinal implant, as shown and described.

**DESCRIPTION**

FIG. 1 is a side elevation view of a spinal implant in accordance with the new design;  
FIG. 2 is a front plan view of the spinal implant of FIG. 1;  
FIG. 3 is a back plan view of the spinal implant of FIG. 1;  
FIG. 4 is a top plan view of the spinal implant of FIG. 1;  
FIG. 5 is a bottom plan view of the spinal implant of FIG. 1;  
FIG. 6 is a side plan view of the spinal implant of FIG. 1; and,  
FIG. 7 is an opposite side plan view of the spinal implant of FIG. 1.

**1 Claim, 4 Drawing Sheets**

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
3,867,728 A 2/1975 Stubstad  
4,955,908 A 9/1990 Frey et al.  
5,496,372 A 3/1996 Hamamoto et al.  
5,545,229 A 8/1996 Parsons et al.  
5,609,635 A 3/1997 Michelson  
7,001,551 B2 2/2006 Meredith  
D625,821 S 10/2010 Goncalves et al.  
9,295,562 B2 3/2016 Lechmann et al.  
9,345,817 B2 5/2016 Papangelou et al.  
D773,047 S 11/2016 Goncalves et al.  
9,636,226 B2 5/2017 Hunt  
9,662,157 B2 5/2017 Schneider et al.



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2012/0303128 A1 11/2012 Ulrich et al.  
2012/0321878 A1 12/2012 Landon et al.  
2015/0094813 A1\* 4/2015 Lechmann ..... A61F 2/441  
623/17.15  
2016/0270920 A1\* 9/2016 Dawson ..... A61F 2/4601  
2016/0324656 A1 11/2016 Morris et al.  
2017/0020685 A1\* 1/2017 Geisler ..... A61F 2/442  
2017/0156880 A1 6/2017 Halverson et al.  
2018/0110624 A1\* 4/2018 Arnone ..... A61F 2/30767  
2018/0243097 A1 8/2018 Jones et al.  
2018/0256336 A1\* 9/2018 Mueller ..... B33Y 70/00  
2018/0296363 A1 10/2018 Berry  
2018/0338838 A1\* 11/2018 Cryder ..... A61F 2/4611  
2019/0076258 A1\* 3/2019 Black ..... B33Y 80/00  
2019/0083270 A1 3/2019 Milz et al.  
2019/0133783 A1 5/2019 Unger et al.

\* cited by examiner

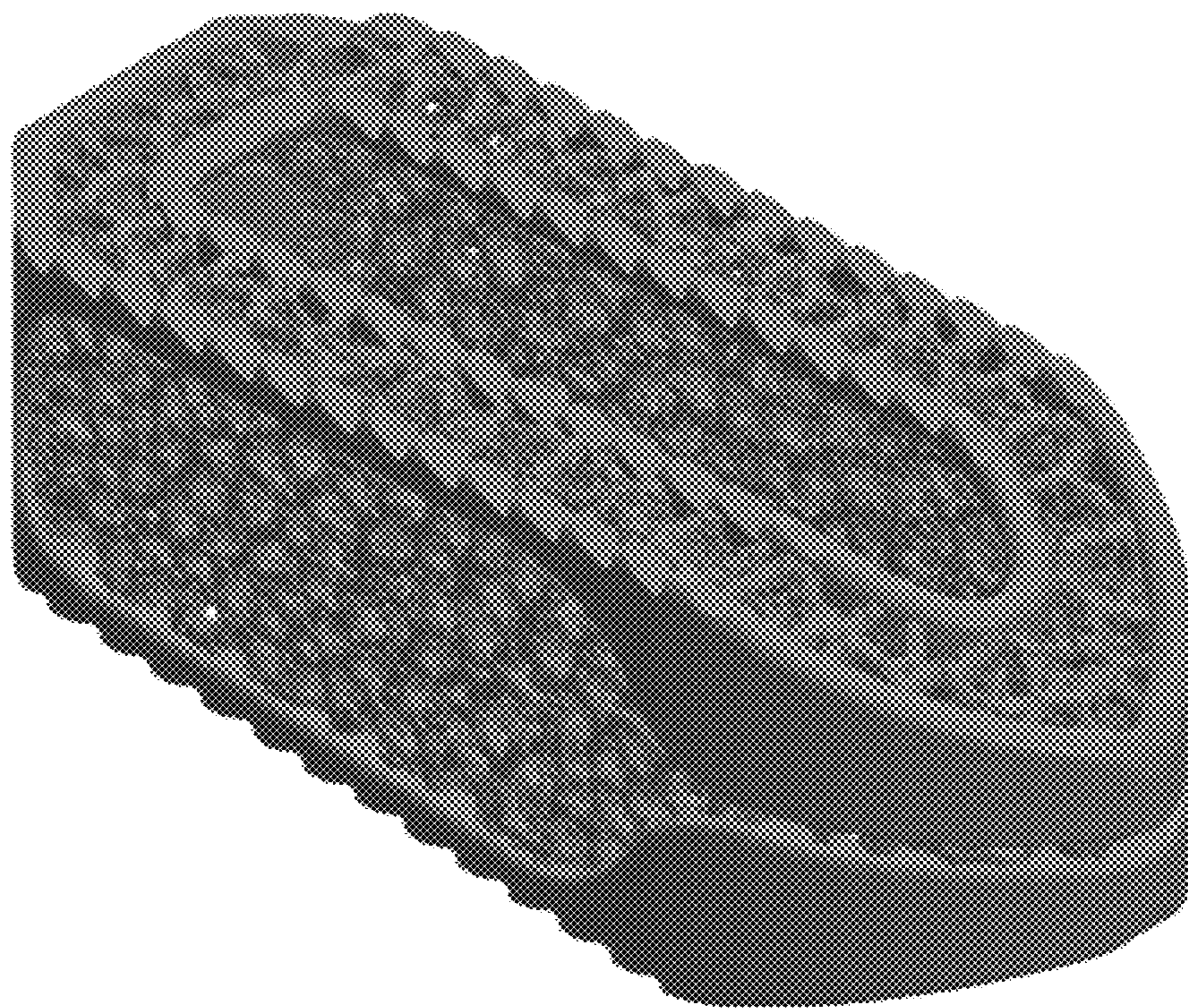


FIG. 1

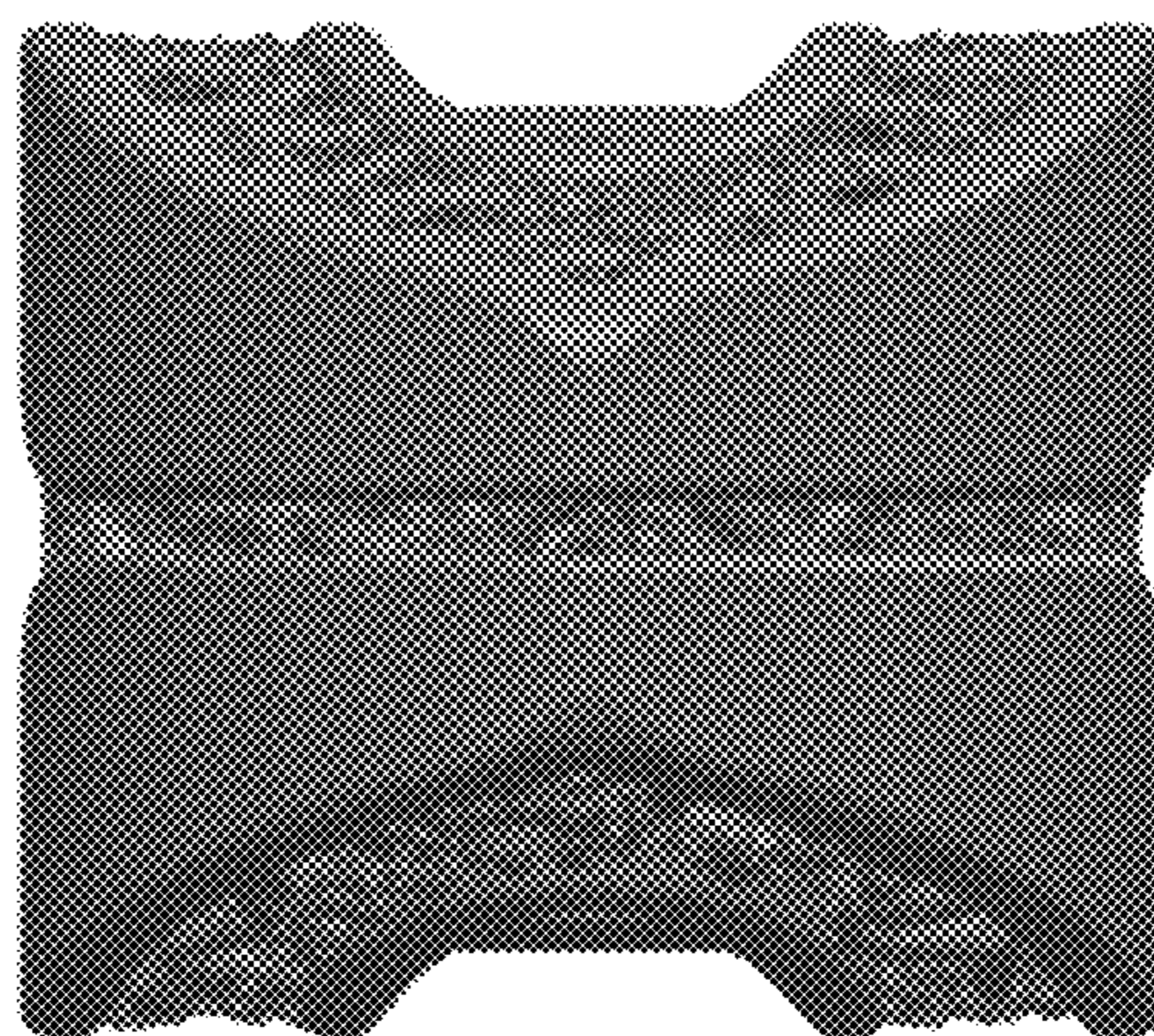


FIG. 2

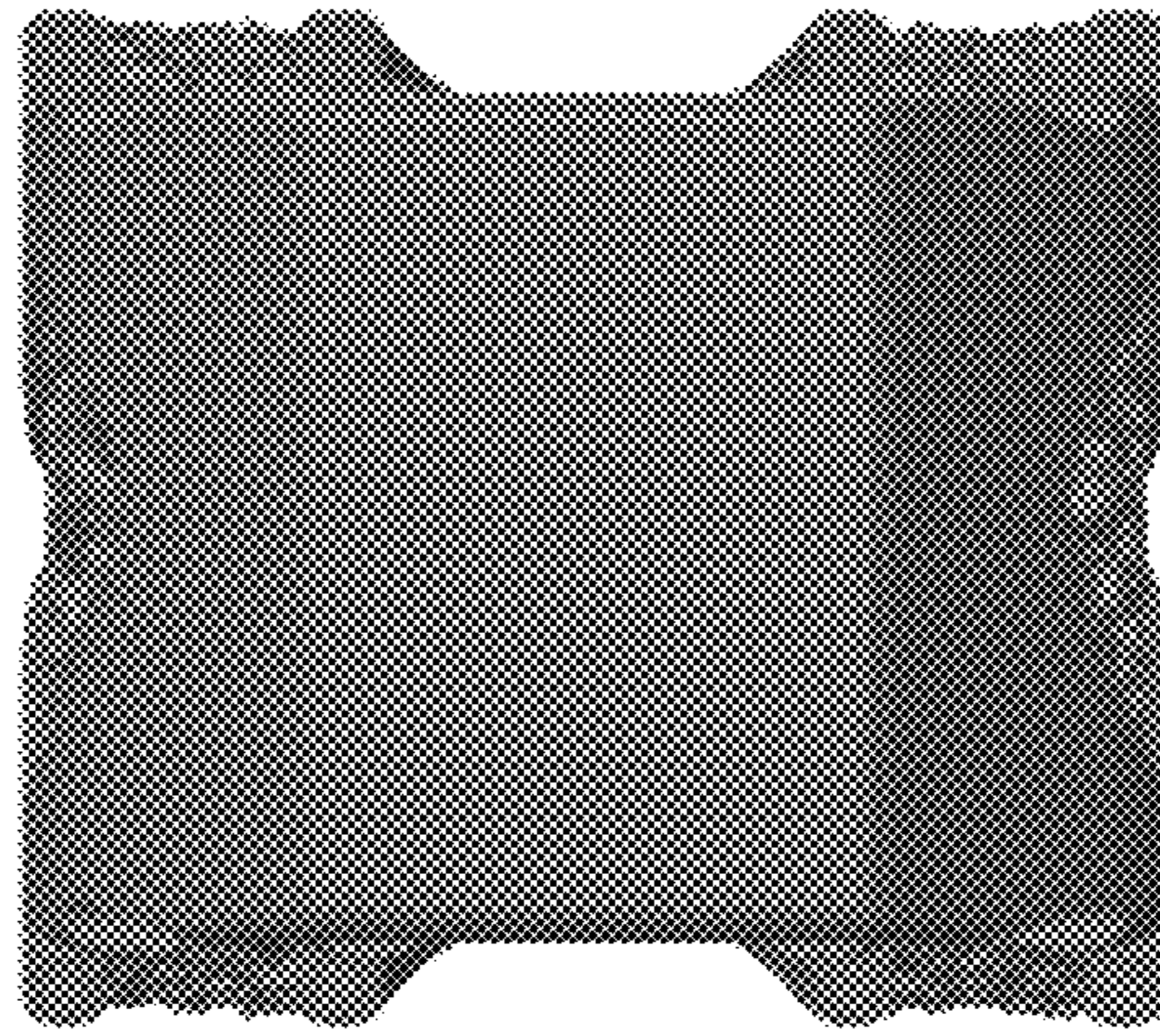


FIG. 3

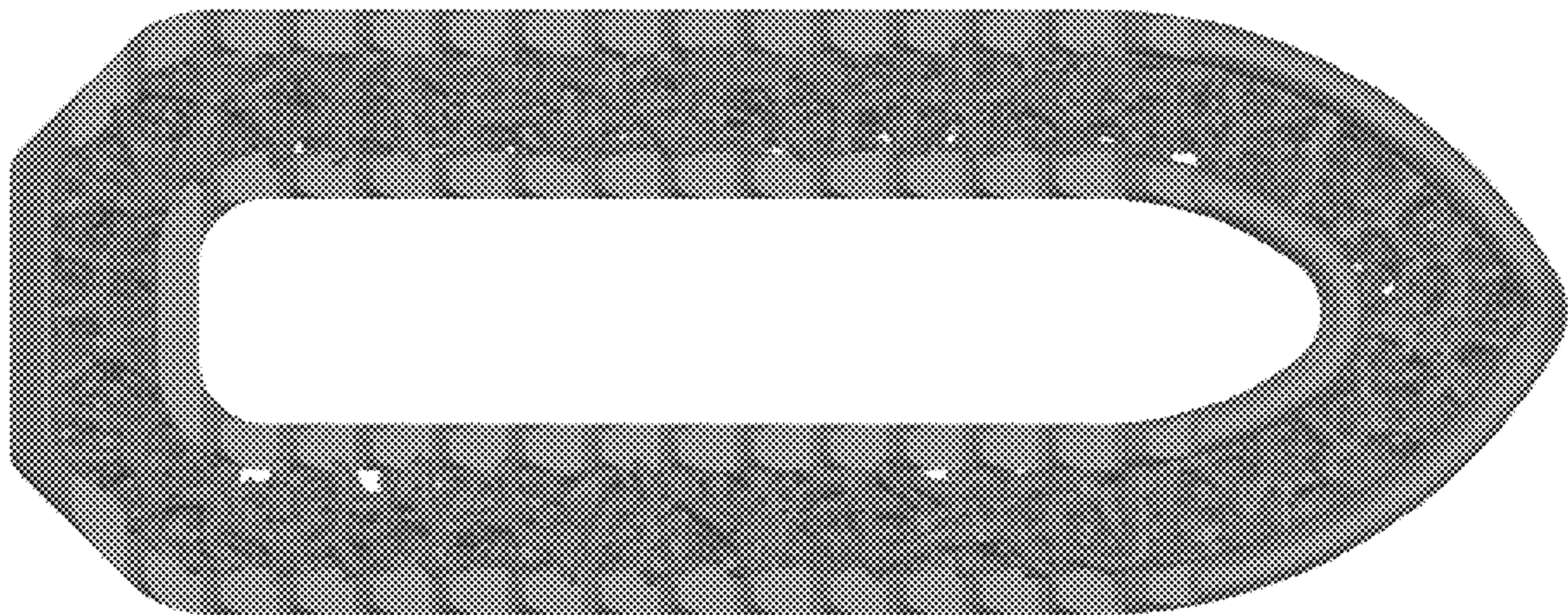


FIG. 4

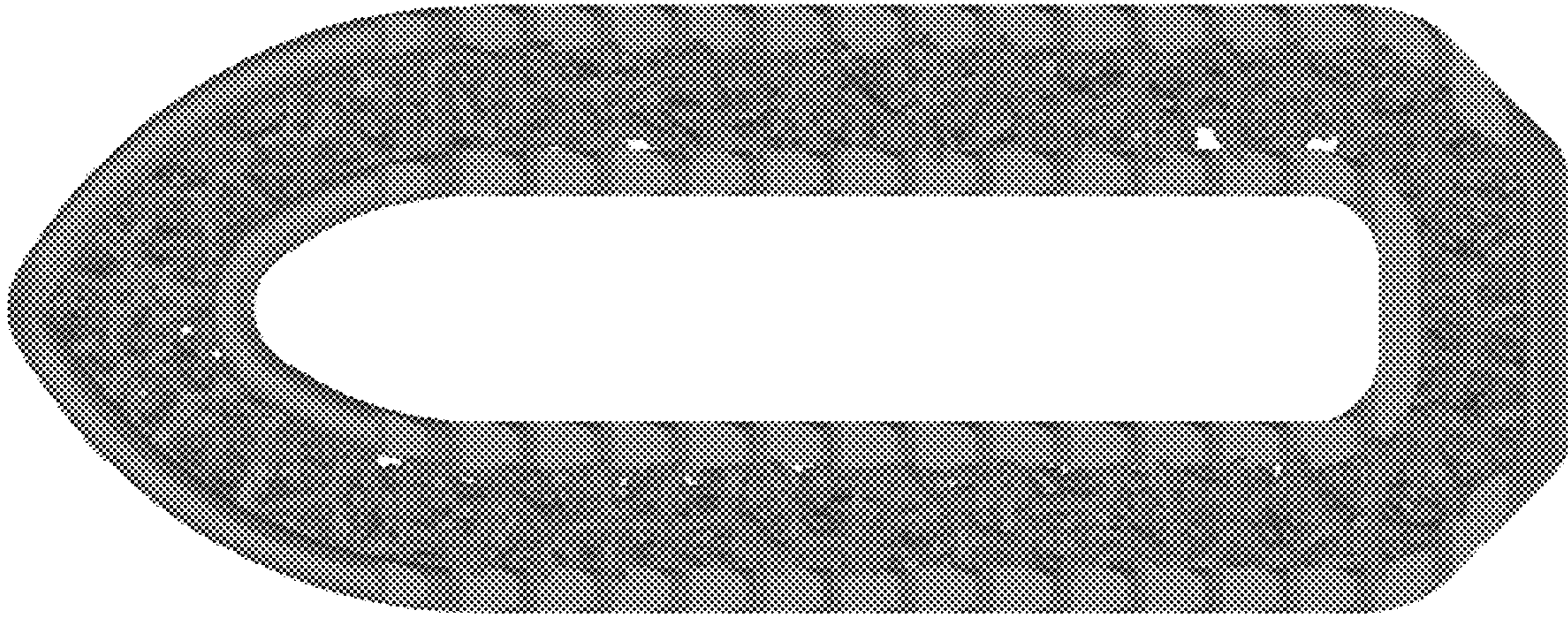


FIG. 5

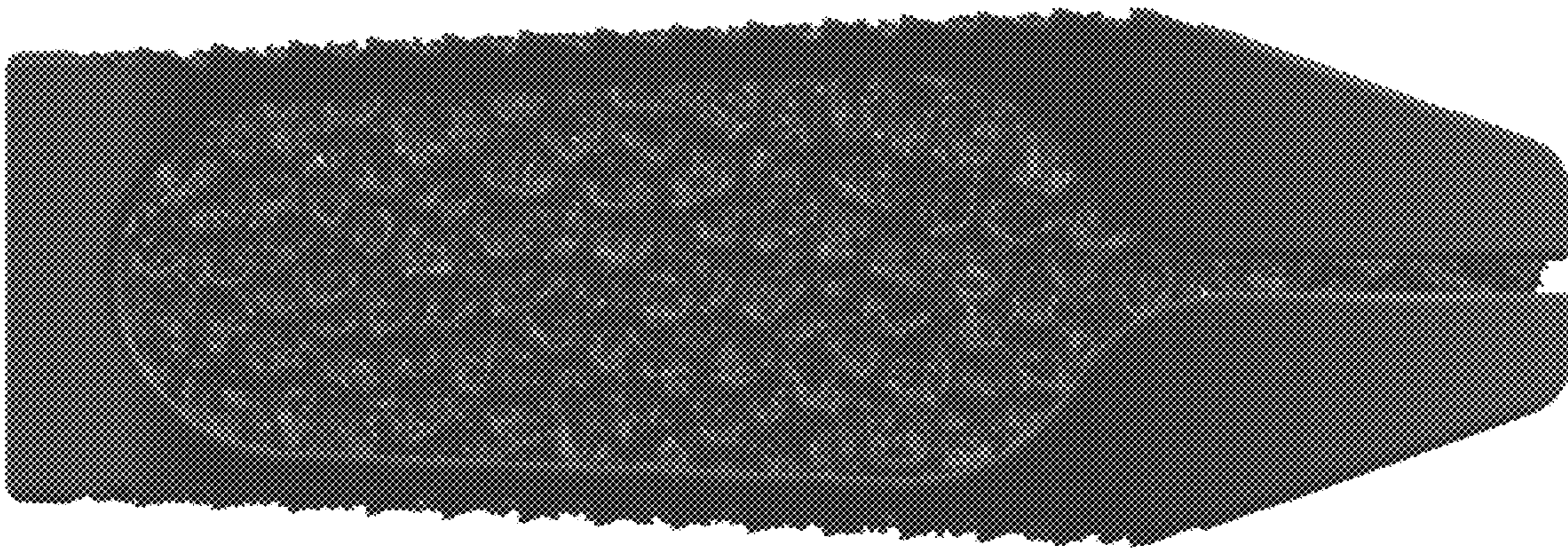


FIG. 6

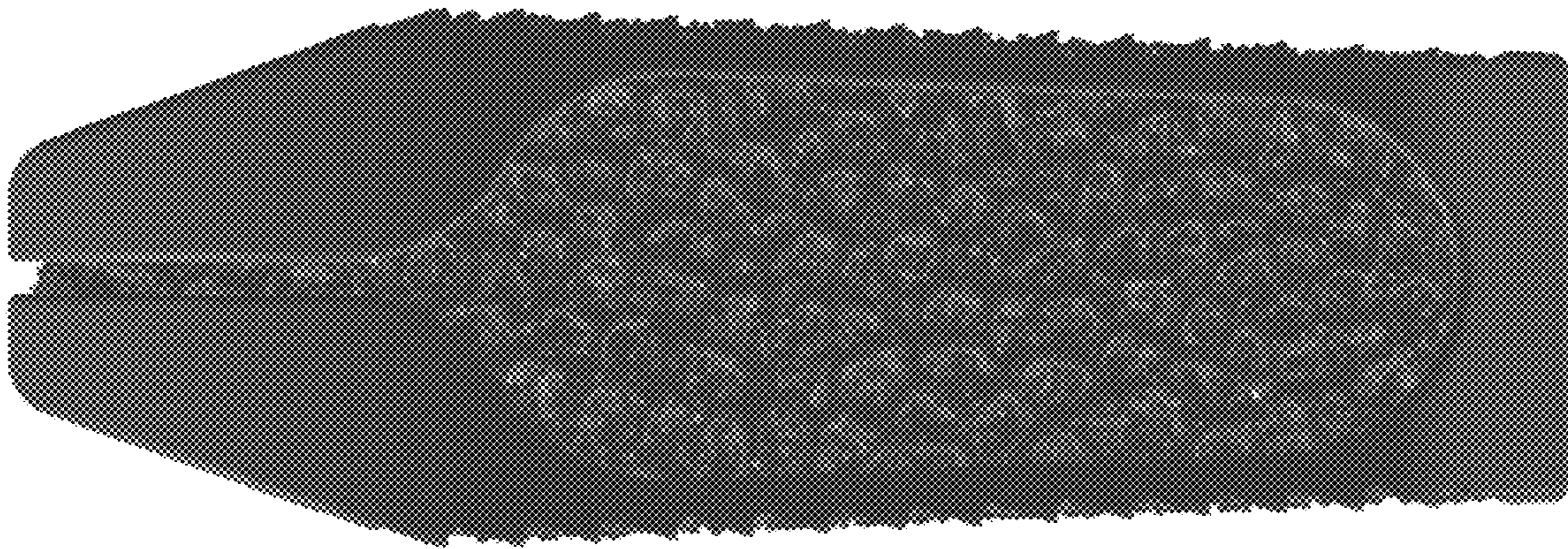


FIG. 7