



US00D843977S

(12) **United States Design Patent**
Wang

(10) **Patent No.:** **US D843,977 S**
(45) **Date of Patent:** **** Mar. 26, 2019**

- (54) **WINDER**
- (71) Applicant: **Aiwu Wang**, Shenzhen (CN)
- (72) Inventor: **Aiwu Wang**, Shenzhen (CN)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/610,312**
- (22) Filed: **Jul. 11, 2017**
- (51) **LOC (11) Cl.** **14-01**
- (52) **U.S. Cl.**
USPC **D14/223**
- (58) **Field of Classification Search**
USPC D15/66-78; D7/500, 503, 506, 566, 571,
D7/576, 582, 642, 647; D9/600, 661;
D14/204, 205, 217, 223, 228, 229;
381/370
CPC H04R 1/1033; H04R 1/1058; B65H 75/00;
B65H 75/02; H02G 11/00; H02G 11/02
See application file for complete search history.

- 5,684,883 A * 11/1997 Chen H02G 11/02
381/370
- 5,816,512 A * 10/1998 Nakashima D05B 59/00
242/484.7
- 5,832,098 A * 11/1998 Chen H04M 1/05
381/370
- 6,036,136 A * 3/2000 Bobo B65H 54/106
242/484.8
- D449,974 S * 11/2001 Stekelenburg D8/358
- 6,702,077 B2 * 3/2004 Skowronski H01B 7/40
191/12.2 R
- 7,036,444 B2 * 5/2006 Fluckiger D05B 57/26
112/231
- 7,325,766 B1 * 2/2008 Schunck B65H 54/106
242/149
- 7,372,974 B2 * 5/2008 Yanagishita H04R 1/1033
381/370
- D611,516 S * 3/2010 Davison, III D15/199
- D612,147 S * 3/2010 Perkins D3/18
- D613,939 S * 4/2010 Madeley D3/24
- D685,771 S * 7/2013 Bertenthal D14/223
- 8,631,545 B2 * 1/2014 Ford A44B 11/2569
24/573.11

(Continued)

Primary Examiner — Mitchell I. Siegel
(74) *Attorney, Agent, or Firm* — Gokalp Bayramoglu

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 3,087,447 A * 4/1963 Adam D05B 57/26
112/231
- 3,581,687 A * 6/1971 Meier D05B 59/00
112/279
- 3,657,491 A * 4/1972 Ryder B65H 75/4434
191/12.2 R
- 3,854,673 A * 12/1974 Manning B65H 49/16
242/118.41
- 4,111,381 A * 9/1978 Kitamura D01H 1/183
242/130.2
- 4,646,982 A * 3/1987 Spring D05B 59/00
112/279
- 4,942,617 A * 7/1990 Boylan H04M 1/05
381/182
- 5,422,957 A * 6/1995 Cummins B65H 75/4431
381/384

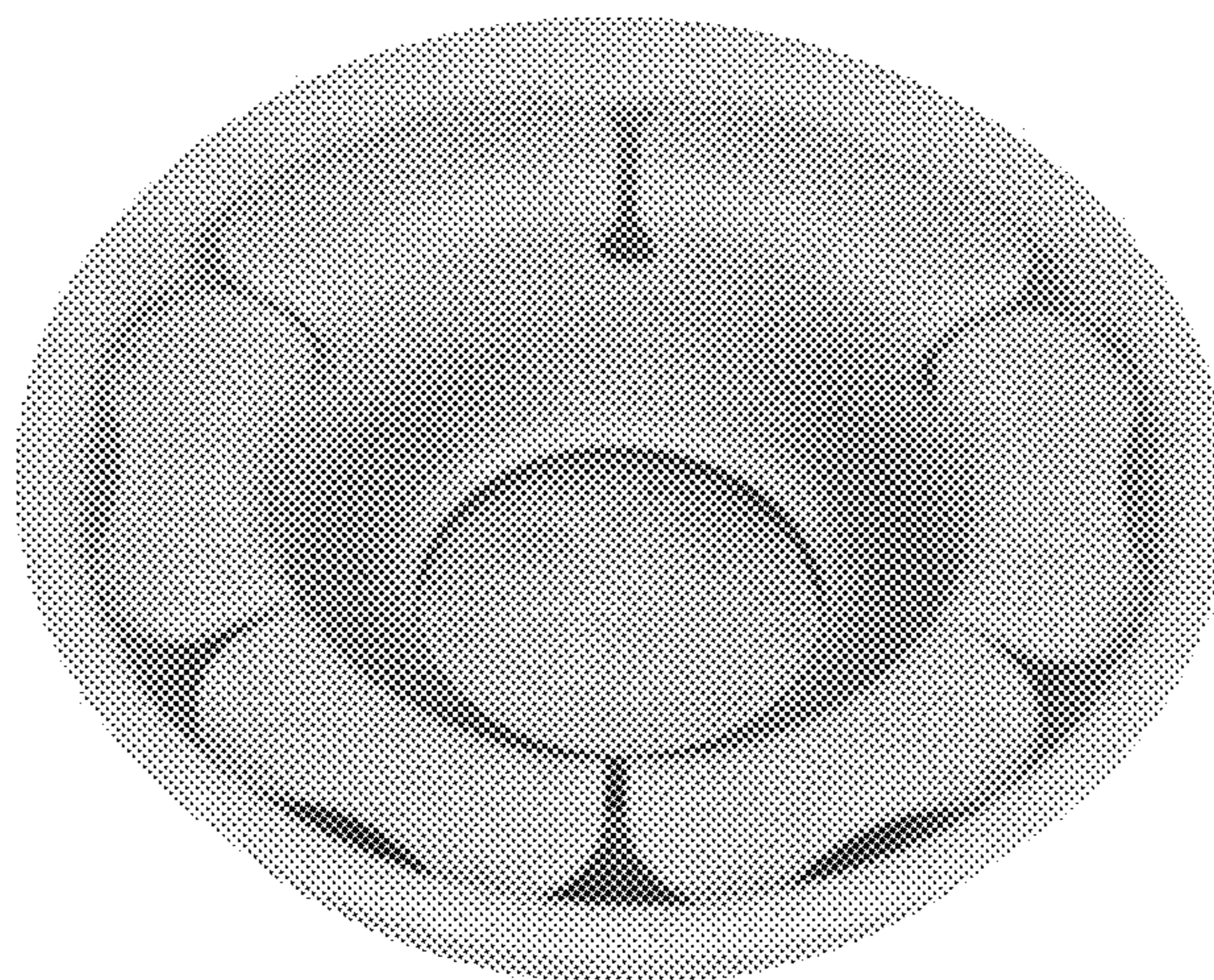
(57) **CLAIM**

The ornamental design for a winder, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a winder showing my new design;
FIG. 2 is a back view thereof;
FIG. 3 is a left side view thereof;
FIG. 4 is a right side view thereof;
FIG. 5 is a top view thereof;
FIG. 6 is a bottom view thereof; and,
FIG. 7 is a front perspective view thereof.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D712,372 S * 9/2014 Rajski D14/205
D737,797 S * 9/2015 Roggenkamp D14/205
D791,741 S * 7/2017 Chen D14/205
9,982,376 B2 * 5/2018 Iizuka D01H 1/183

* cited by examiner

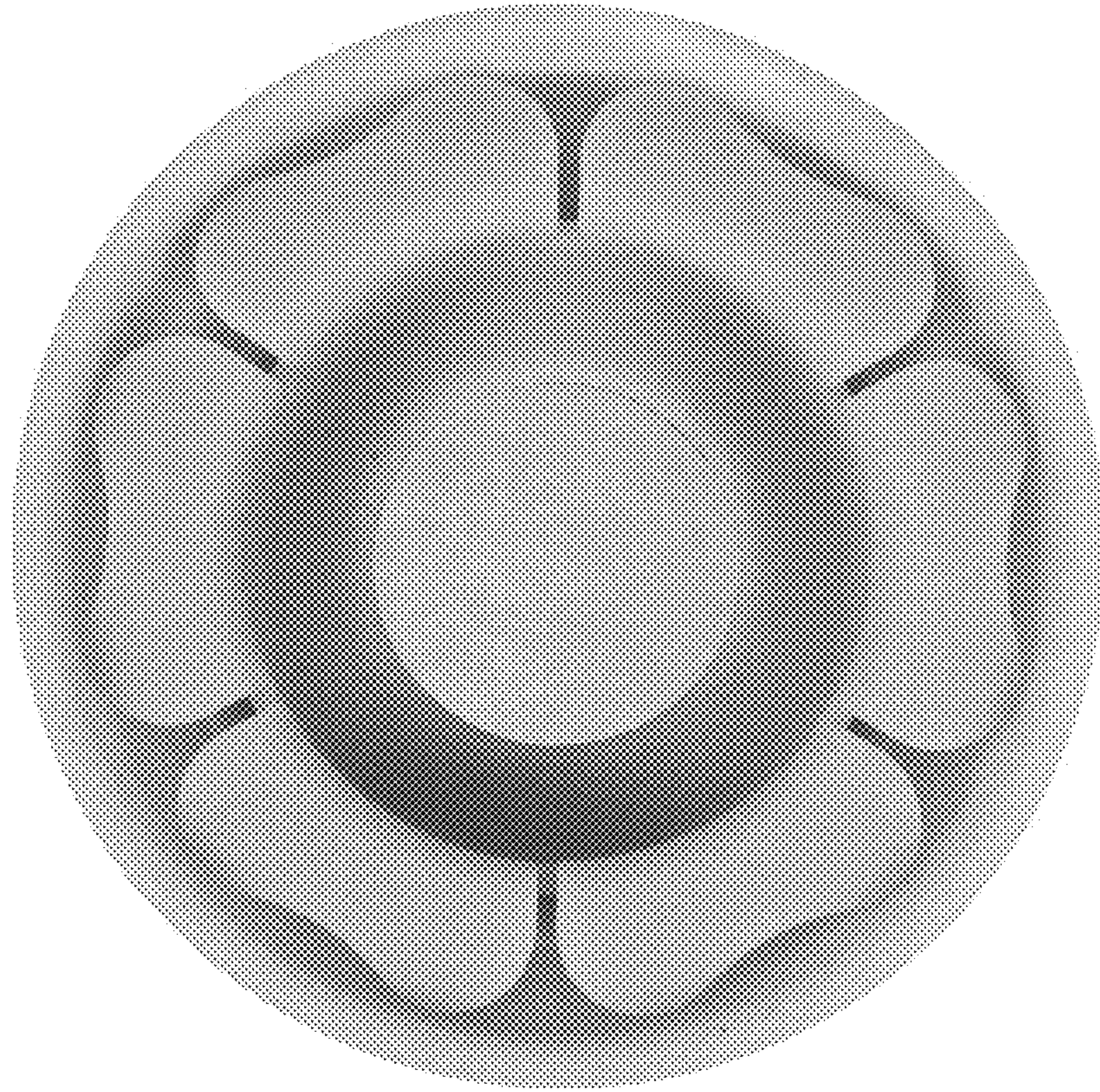


FIG. 1

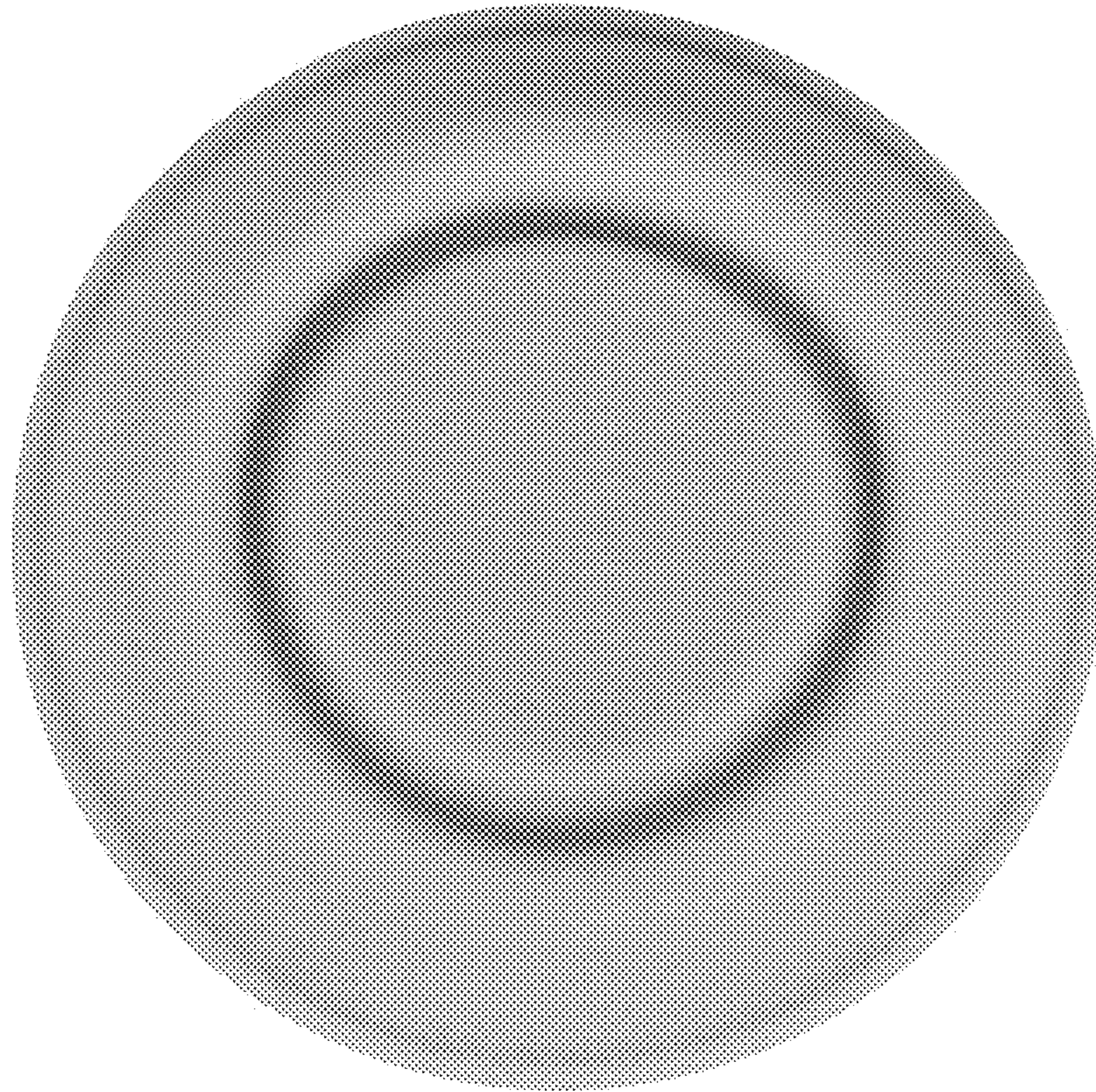


FIG. 2

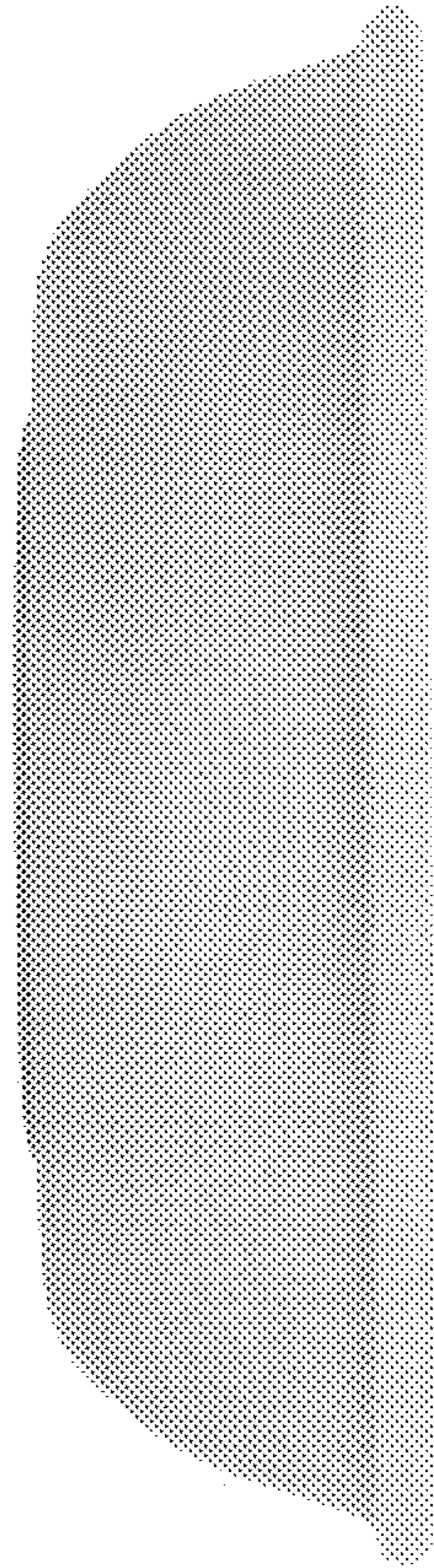


FIG. 3

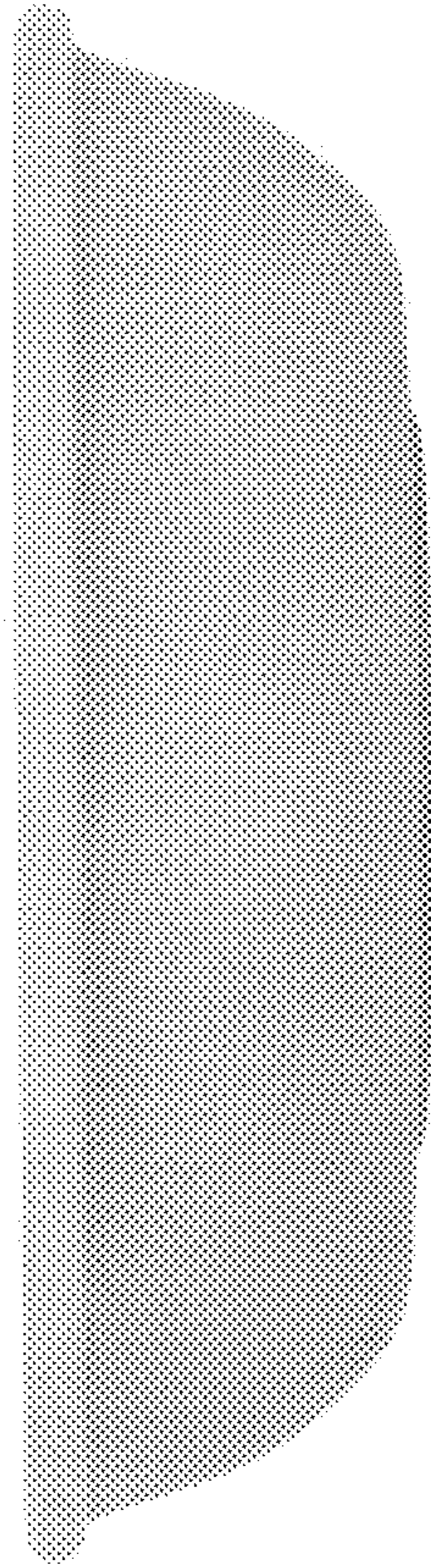


FIG. 4

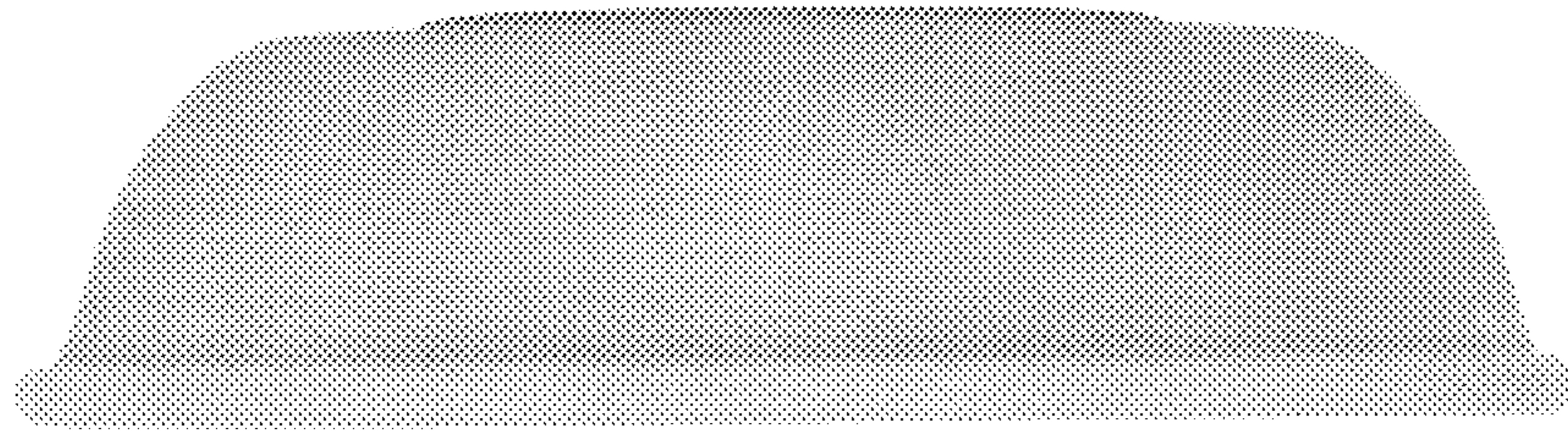


FIG. 5

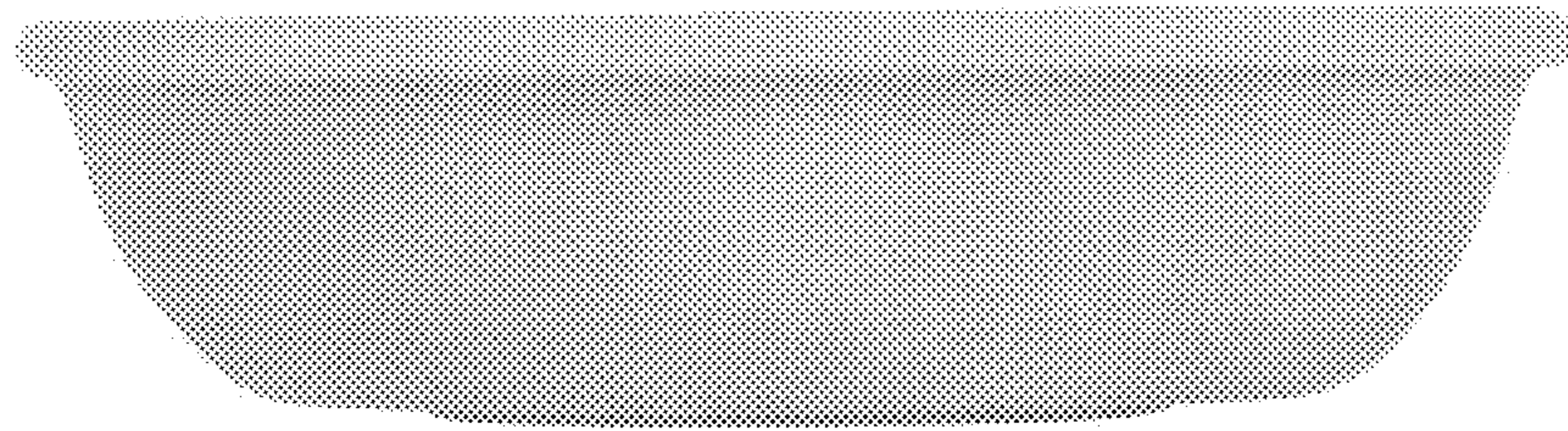


FIG. 6

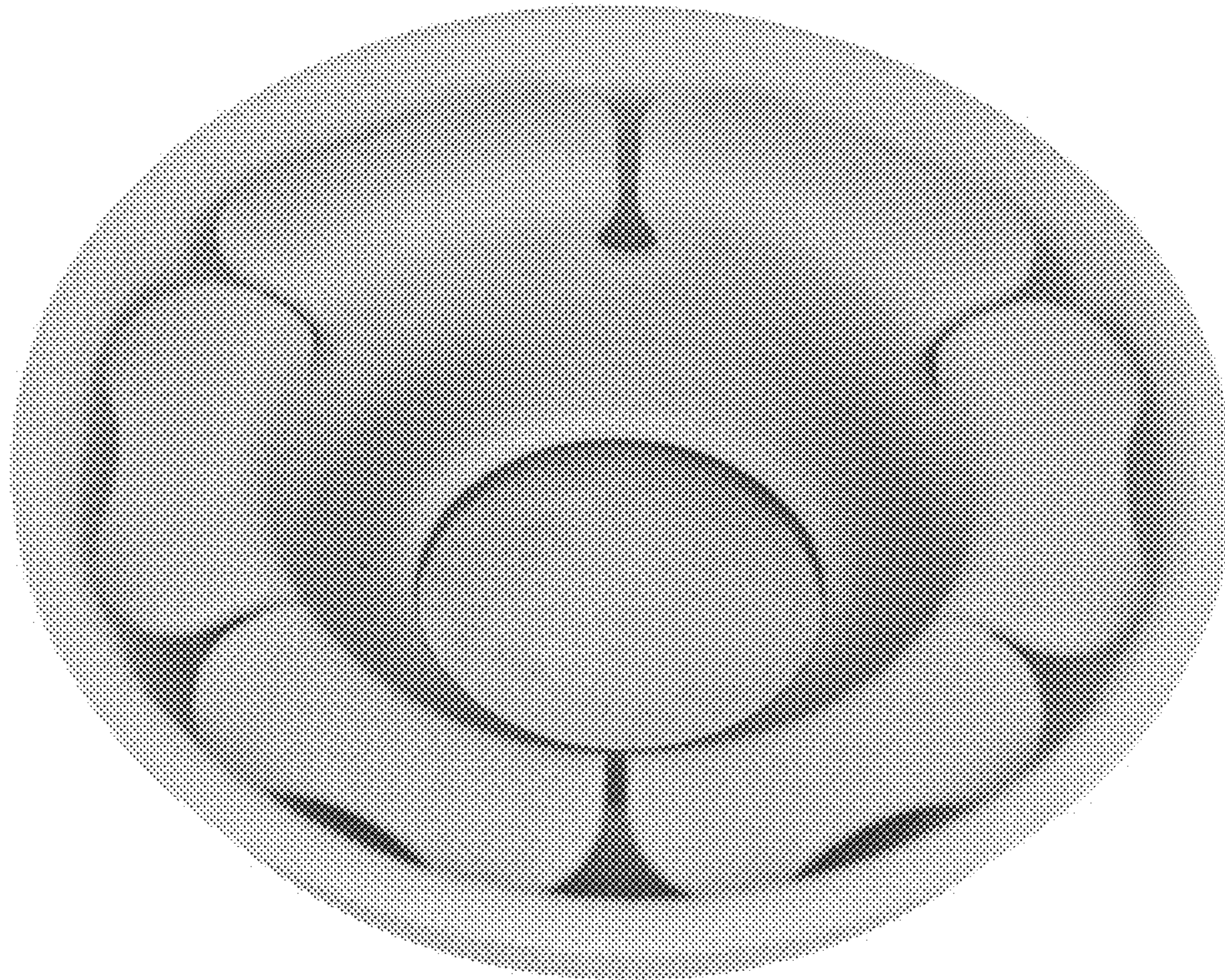


FIG. 7