



US00D739363S

(12) **United States Design Patent**
Sharma et al.

(10) **Patent No.:** **US D739,363 S**

(45) **Date of Patent:** **** Sep. 22, 2015**

(54) **ARRAY OF TRIANGULAR SEMICONDUCTOR DIES**

(71) Applicant: **SORAA, INC.**, Fremont, CA (US)

(72) Inventors: **Rajat Sharma**, Fremont, CA (US);
Andrew Felker, Fremont, CA (US);
William D. Houck, Fremont, CA (US)

(73) Assignee: **Soraa, Inc.**, Fremont, CA (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/441,116**

(22) Filed: **Dec. 31, 2012**

Related U.S. Application Data

(63) Continuation of application No. 13/357,578, filed on Jan. 24, 2012, which is a continuation-in-part of application No. 13/163,482, filed on Jun. 17, 2011, now Pat. No. 8,293,551.

(51) **LOC (10) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/182**

(58) **Field of Classification Search**
USPC D13/110, 182, 184; 361/679.01, 728,
361/761, 820, 718, 764, 748, 752, 783;
257/668, 678, 684; 324/71.5, 252;
29/825, 829, 830, 831, 832, 846;
174/68.1, 250-261, 268; 216/13;
428/901

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,344,302 A * 3/1944 Harza 405/16
3,035,657 A * 5/1962 Lemon 181/290
3,482,760 A * 12/1969 Boehm et al. 229/115
4,537,001 A * 8/1985 Uppstrom 52/608

4,555,114 A * 11/1985 Dozier 473/588
5,042,657 A * 8/1991 Dunn 206/326
5,105,906 A * 4/1992 Wegner 181/156
D353,642 S * 12/1994 Callaghan D21/386
5,425,499 A * 6/1995 Pfeiffer 229/115

(Continued)

Primary Examiner — Elizabeth J Oswecki

(74) *Attorney, Agent, or Firm* — Saul Ewing LLP

(57) **CLAIM**

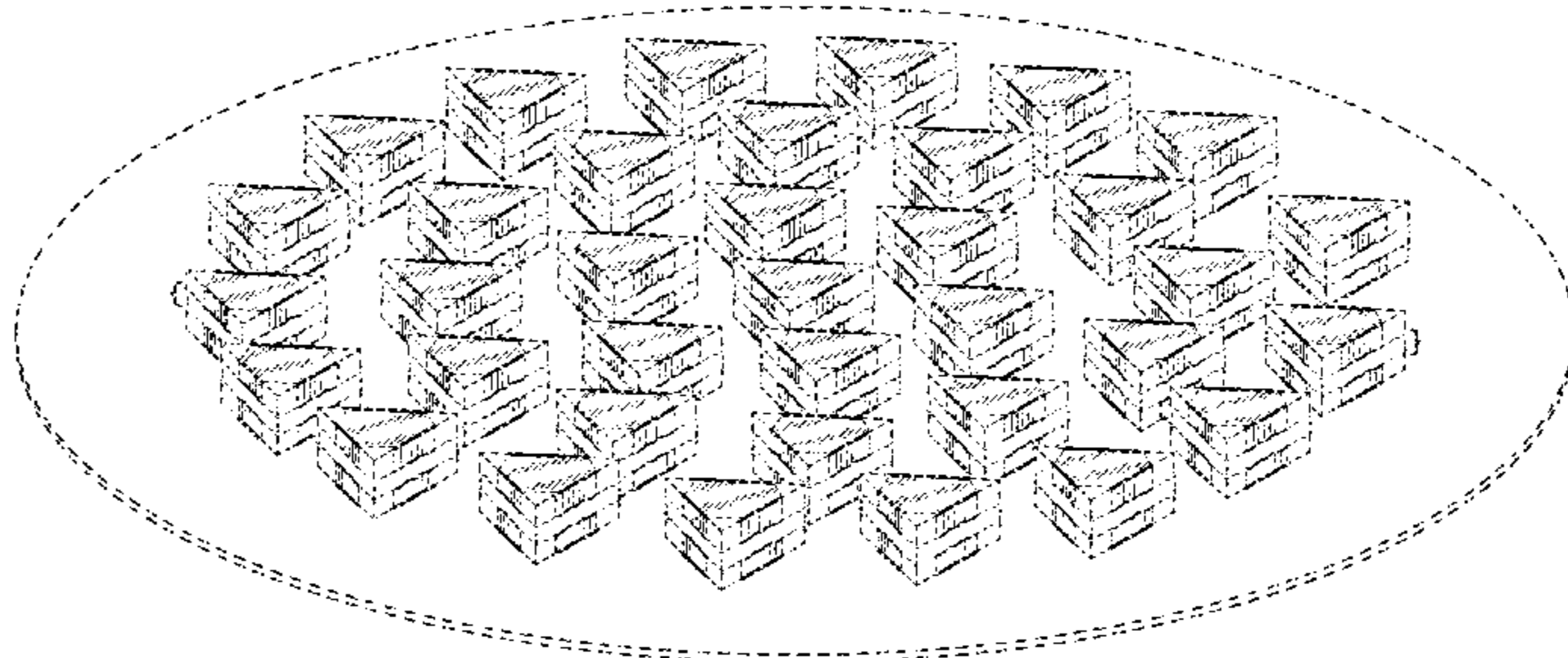
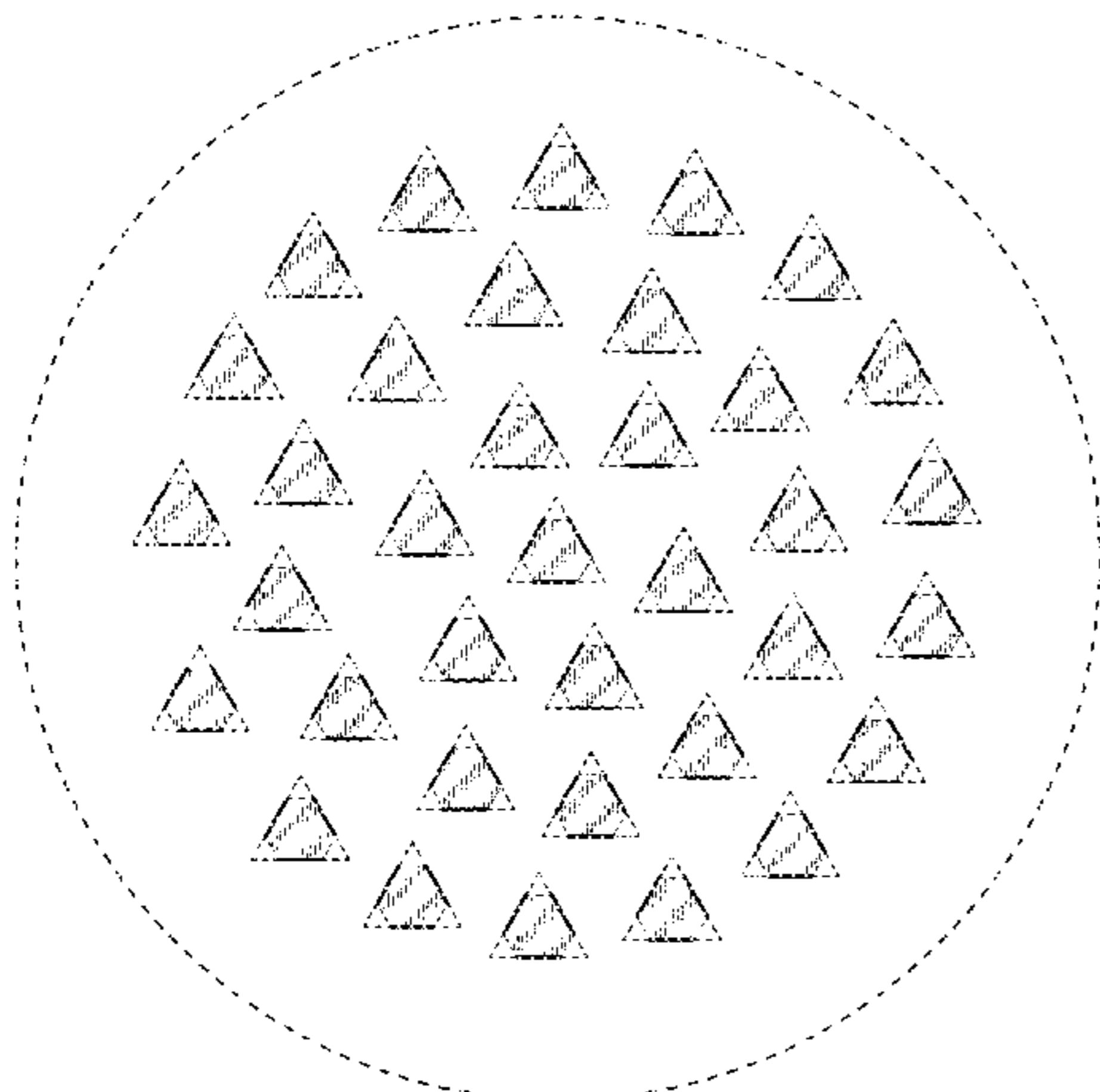
The ornamental design for an array of triangular semiconductor dies, as shown and described.

DESCRIPTION

FIG. 1 is a top plan view of a first embodiment of an array of triangular semiconductor dies showing our new design; FIG. 2 is a front perspective view thereof; FIG. 3 is a rear perspective view thereof; FIG. 4 is a top plan view of a second embodiment of an array of triangular semiconductor dies showing our new design; FIG. 5 is a front perspective view thereof; FIG. 6 is a rear perspective view thereof; FIG. 7 is a top plan view of a third embodiment of an array of triangular semiconductor dies showing our new design; FIG. 8 is a front perspective view thereof; FIG. 9 is a rear perspective view thereof; FIG. 10 is a top plan view of a fourth embodiment of an array of triangular semiconductor dies showing our new design; FIG. 11 is a front perspective view thereof; FIG. 12 is a rear perspective view thereof; FIG. 13 is a top plan view of a fifth embodiment of an array of triangular semiconductor dies showing our new design; FIG. 14 is a front perspective view thereof; and, FIG. 15 is a rear perspective view thereof.

The broken lines in the figures represent unclaimed subject matter and form no part of the claimed design. The triangular semiconductor dies is shown broken away in FIGS. 1-15 to indicate that no particular length is claimed.

1 Claim, 15 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D416,442 S * 11/1999 Gilchrist D7/409
 D421,967 S * 3/2000 Oba et al. D13/182
 D431,551 S * 10/2000 Wegner D14/210
 D445,029 S * 7/2001 Niknafs D9/456
 6,385,035 B1 * 5/2002 Matoba et al. 361/321.1
 D478,622 S * 8/2003 Grayson D19/10
 D491,520 S * 6/2004 Hutton et al. D13/100
 D493,896 S * 8/2004 Mock D25/138
 D502,866 S * 3/2005 Woollard D8/382
 D504,525 S * 4/2005 Mock D25/138
 D562,385 S * 2/2008 Camillo D19/41
 D568,839 S * 5/2008 Mitsui et al. D13/182
 D570,410 S * 6/2008 Moro D19/41
 D574,339 S * 8/2008 Honjo et al. D13/182

D580,566 S * 11/2008 Mukai D26/24
 D586,454 S * 2/2009 Nishio et al. D23/393
 D591,172 S * 4/2009 Keberlein et al. D9/756
 D591,618 S * 5/2009 Keberlein et al. D9/756
 D598,429 S * 8/2009 Nakatani D14/217
 D599,077 S * 9/2009 Garcia Aleman et al. D1/128
 D617,554 S * 6/2010 Raile D3/265
 D618,415 S * 6/2010 Greseth et al. D34/1
 D622,256 S * 8/2010 Lockenwitz D14/155
 D628,218 S * 11/2010 Tommassini D15/138
 D635,622 S * 4/2011 Martin et al. D21/681
 D638,683 S * 5/2011 Igeta D8/302
 D681,421 S * 5/2013 Bucci D8/354
 D683,214 S * 5/2013 Mcadam D9/433
 D684,546 S * 6/2013 Kuzuoka D13/180
 D698,927 S * 2/2014 Caprio et al. D24/187
 2006/0246268 A1 * 11/2006 Honjo et al. 428/209

* cited by examiner

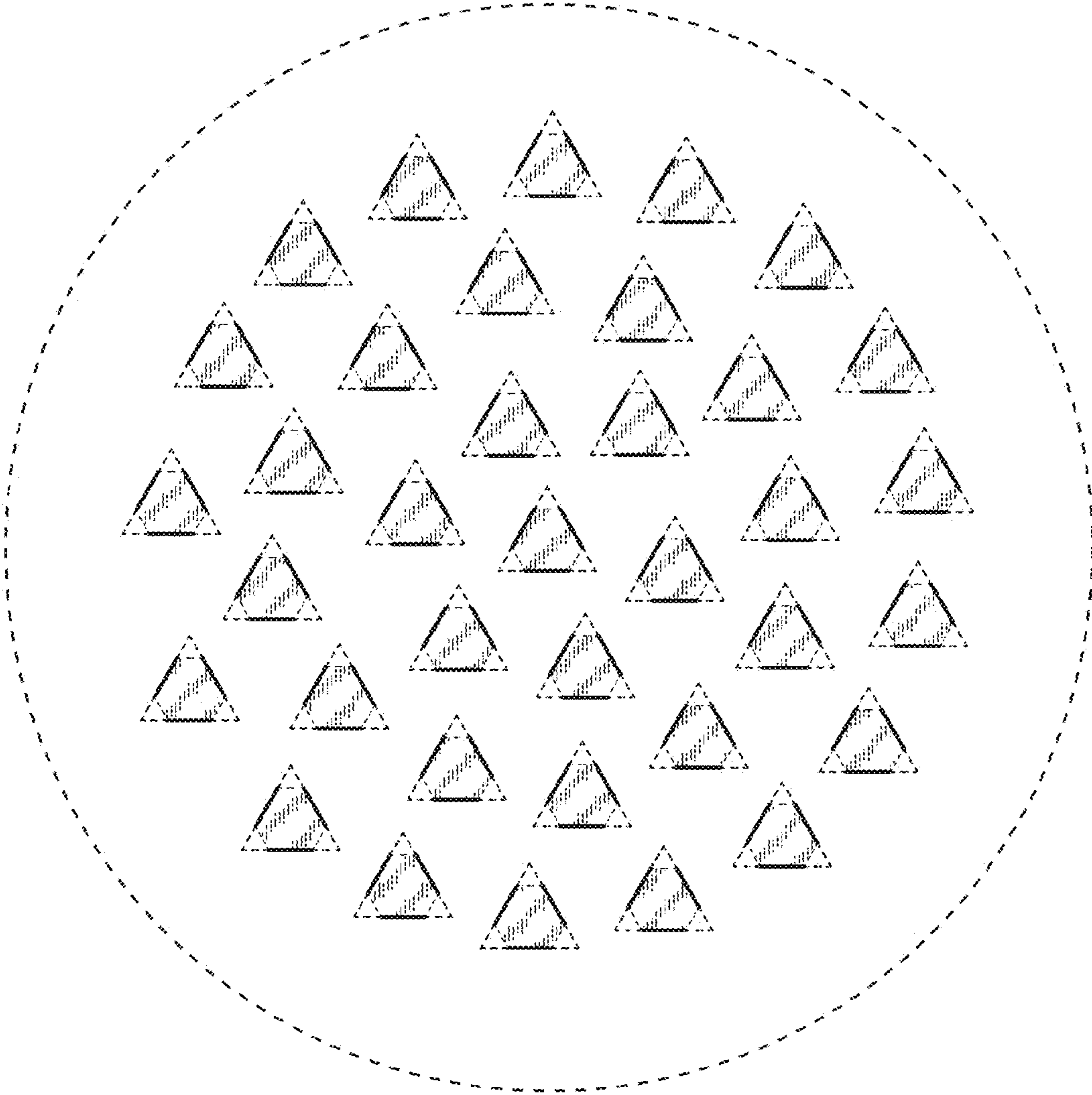


FIG. 1

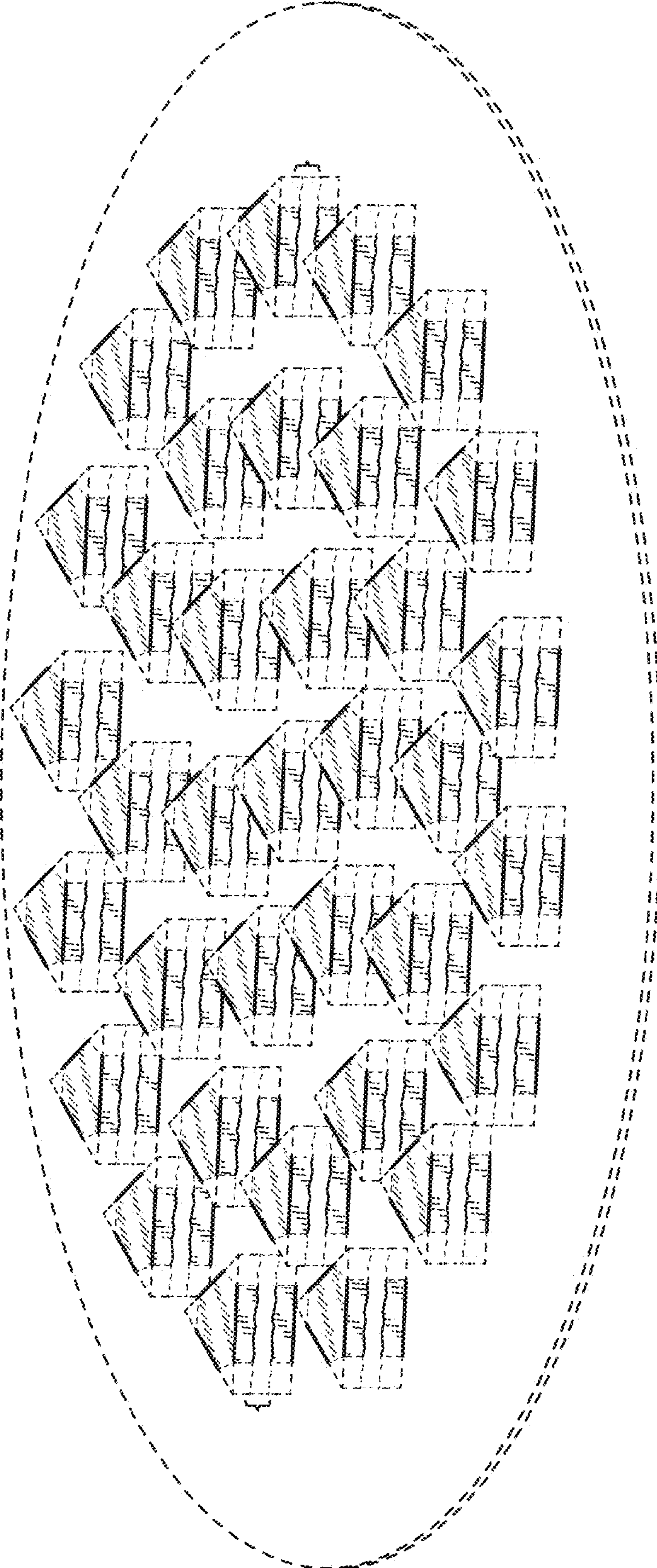


FIG. 2

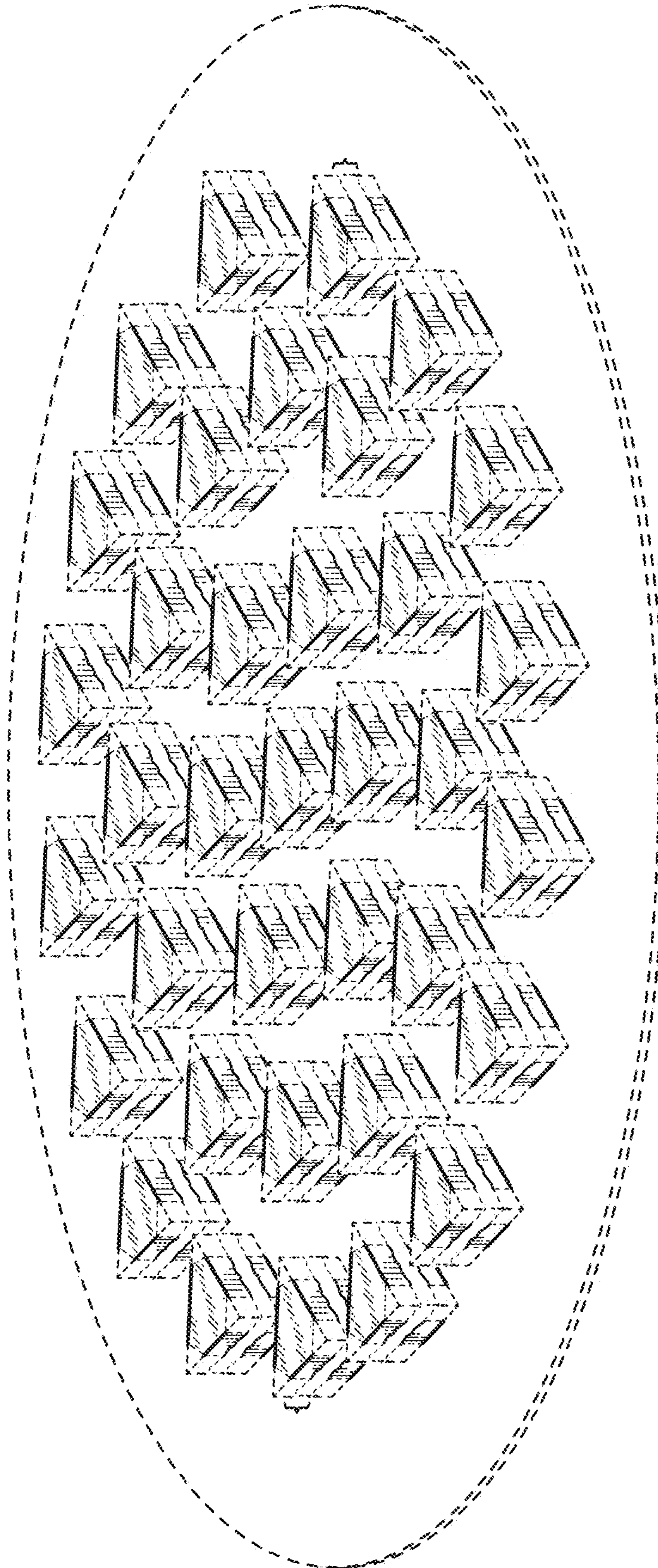


FIG. 3

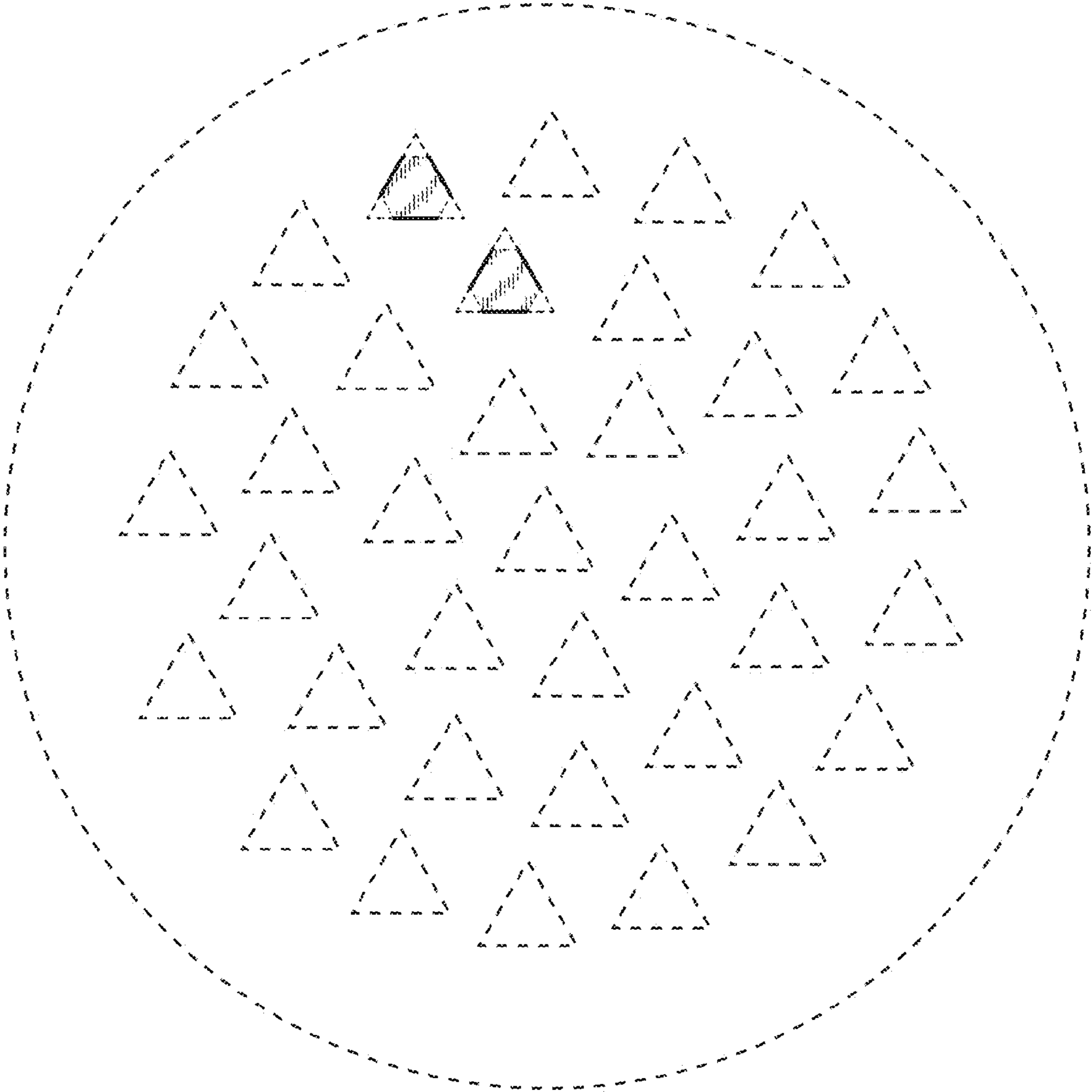


FIG. 4

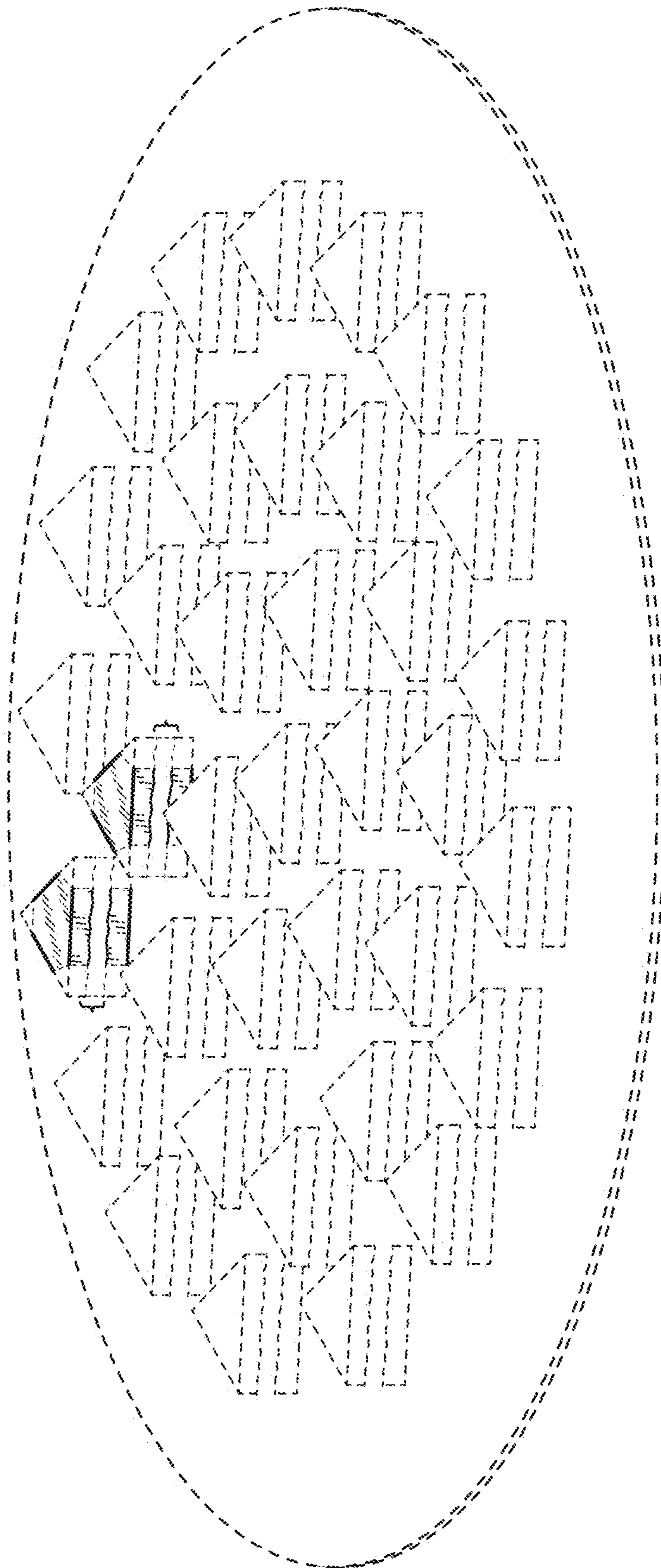


FIG. 5

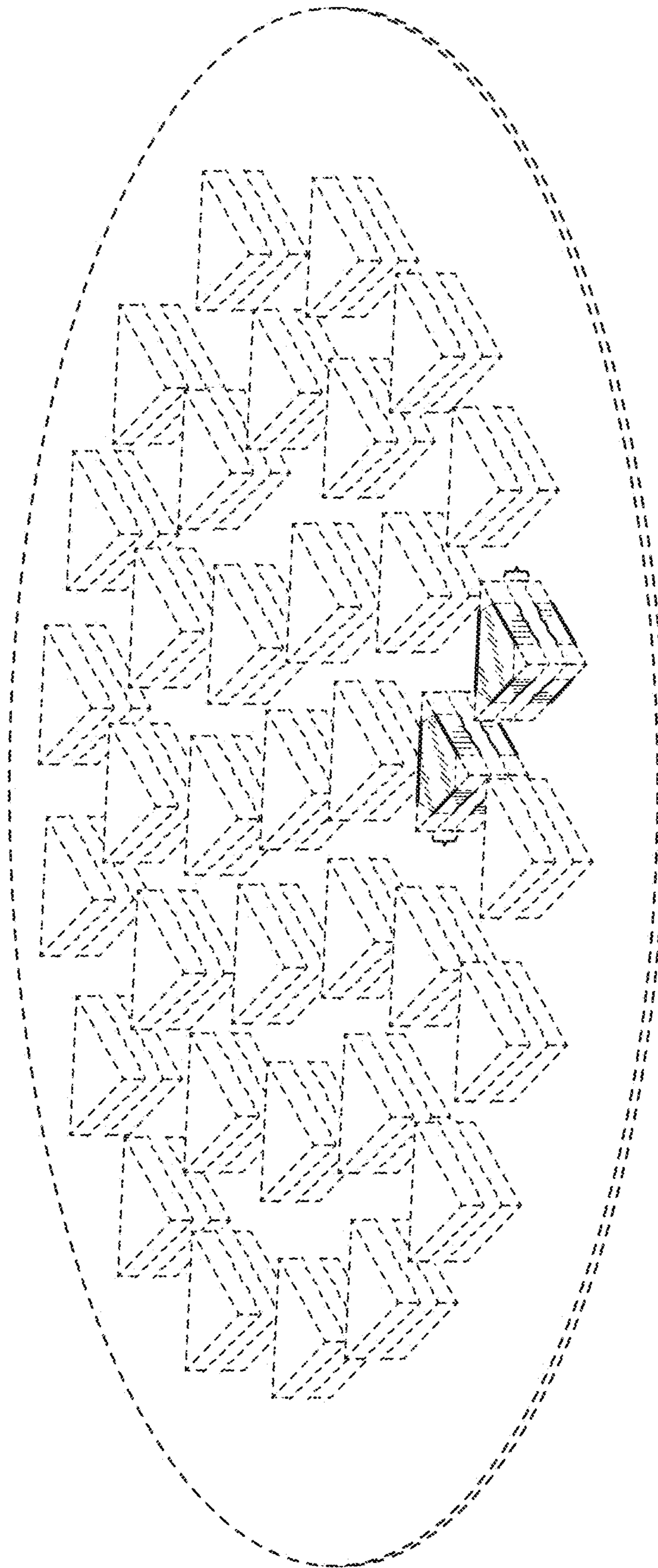


FIG. 6

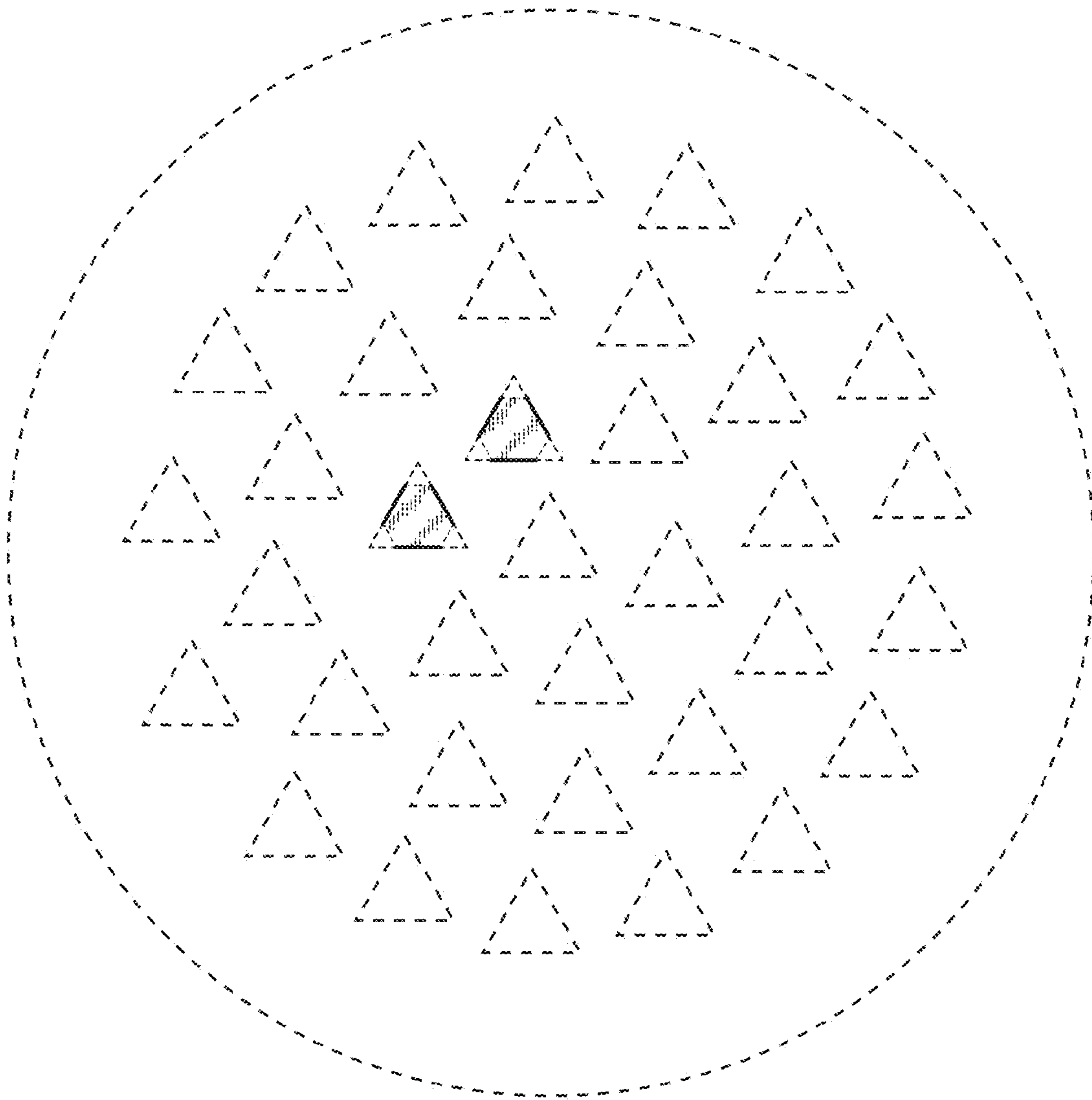


FIG. 7

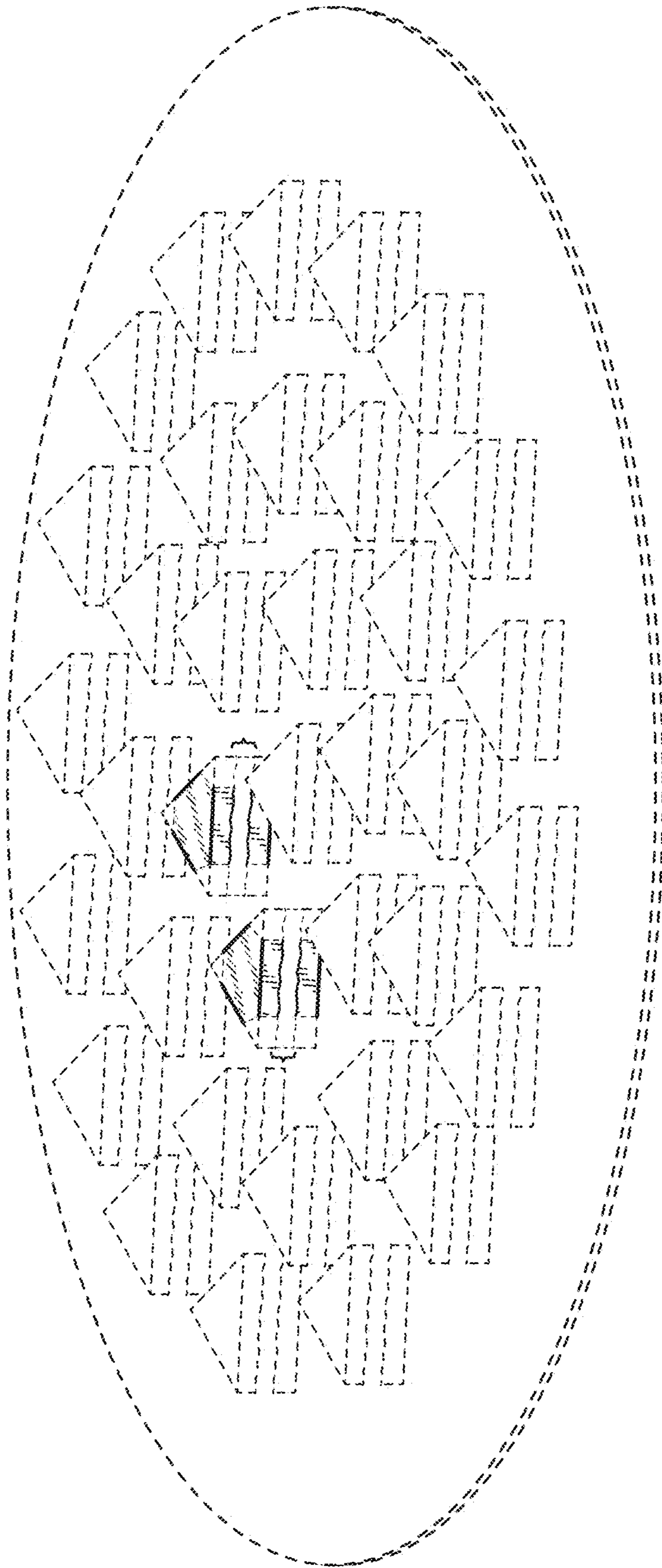


FIG. 8

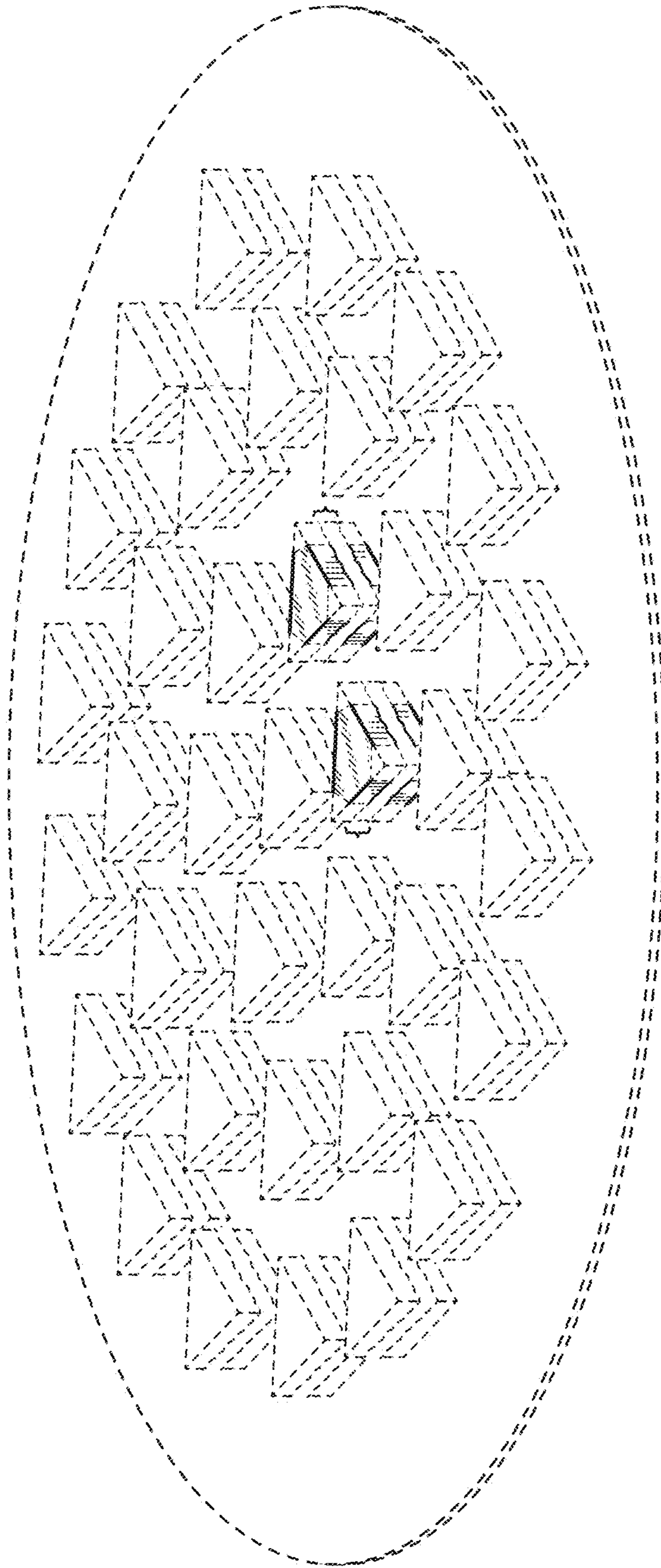


FIG. 9

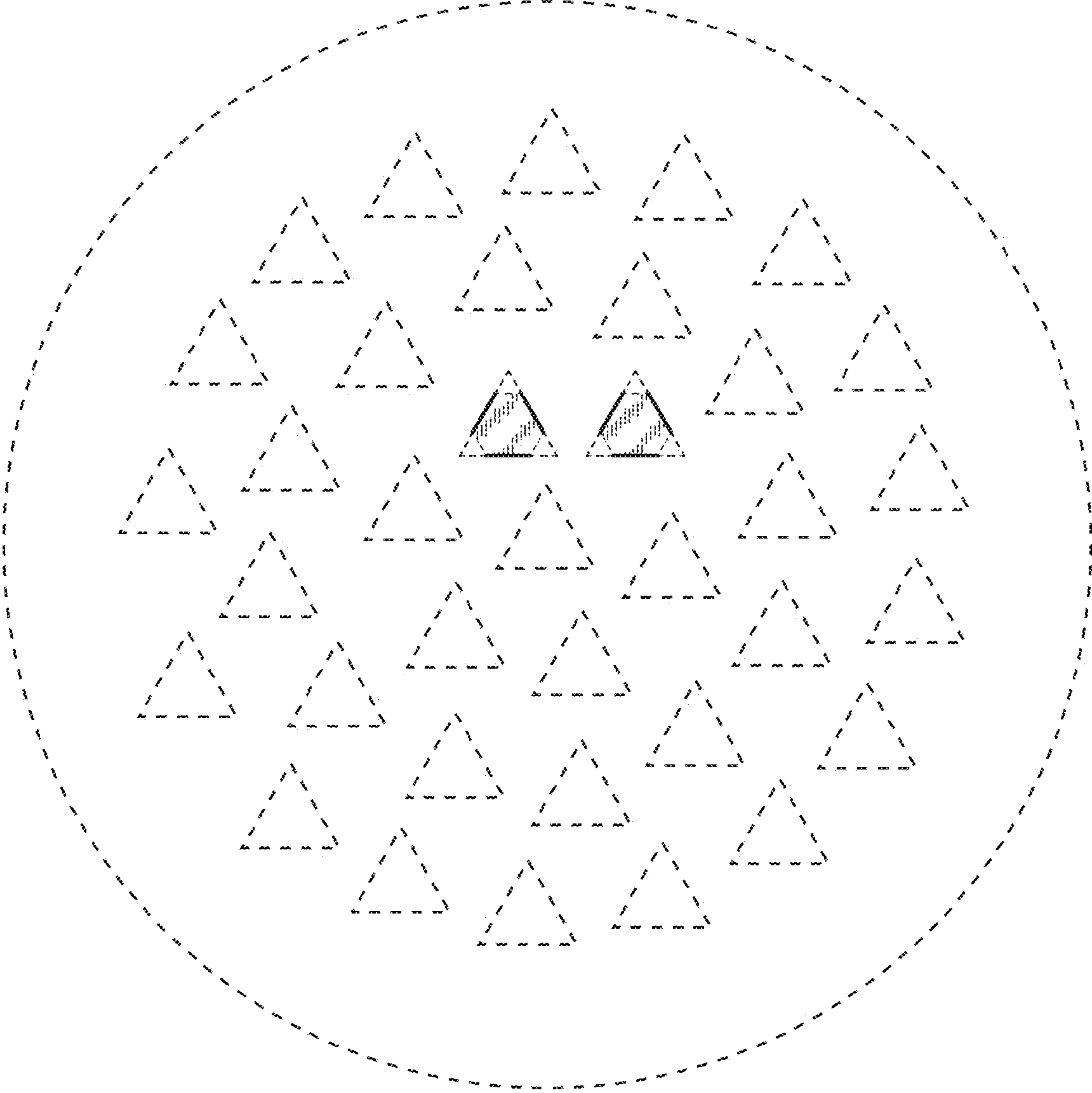


FIG. 10

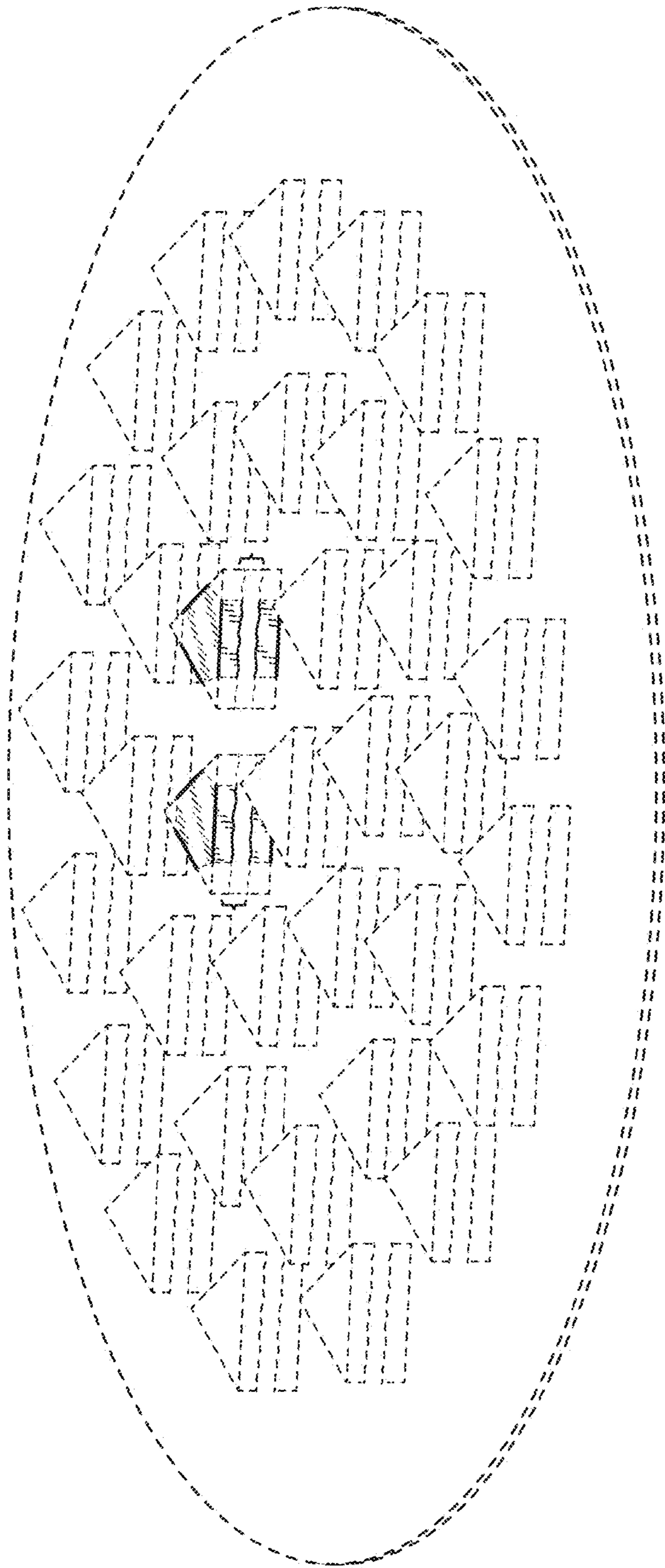


FIG. 11

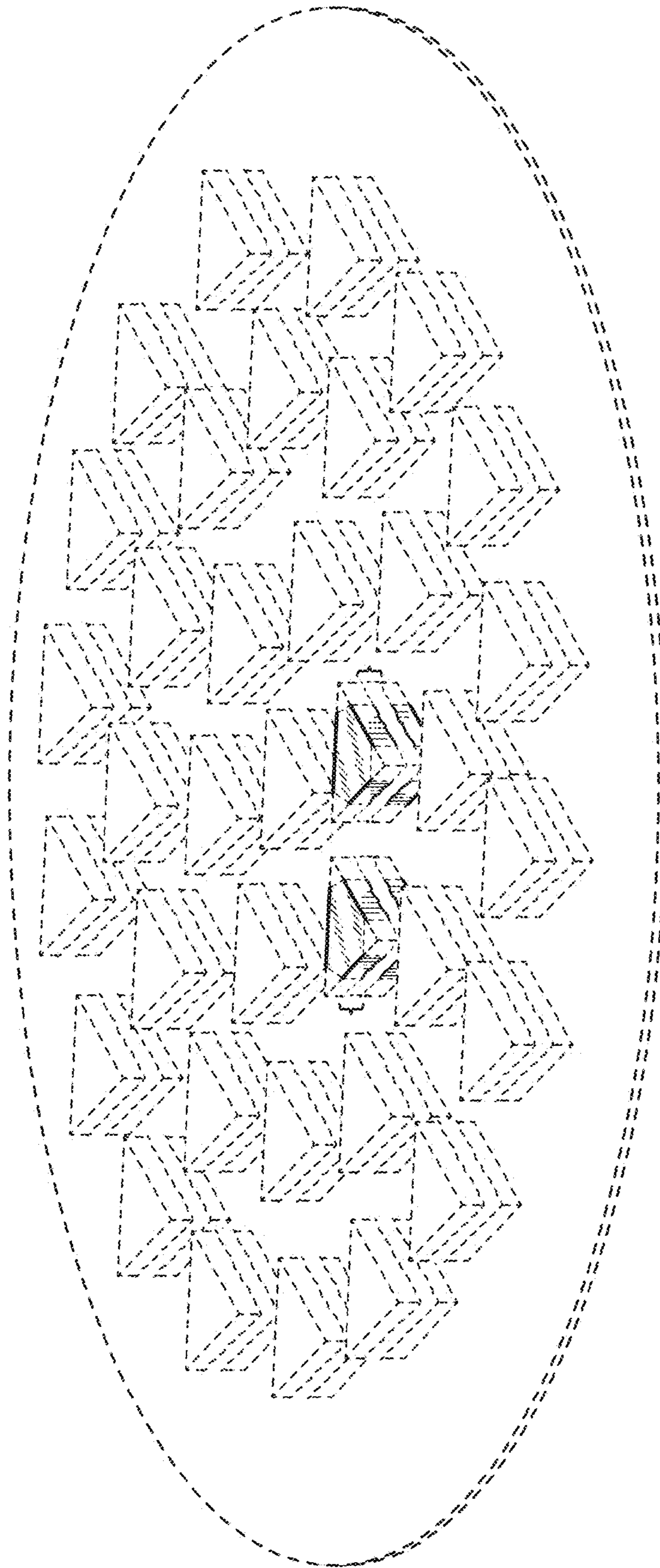


FIG. 12

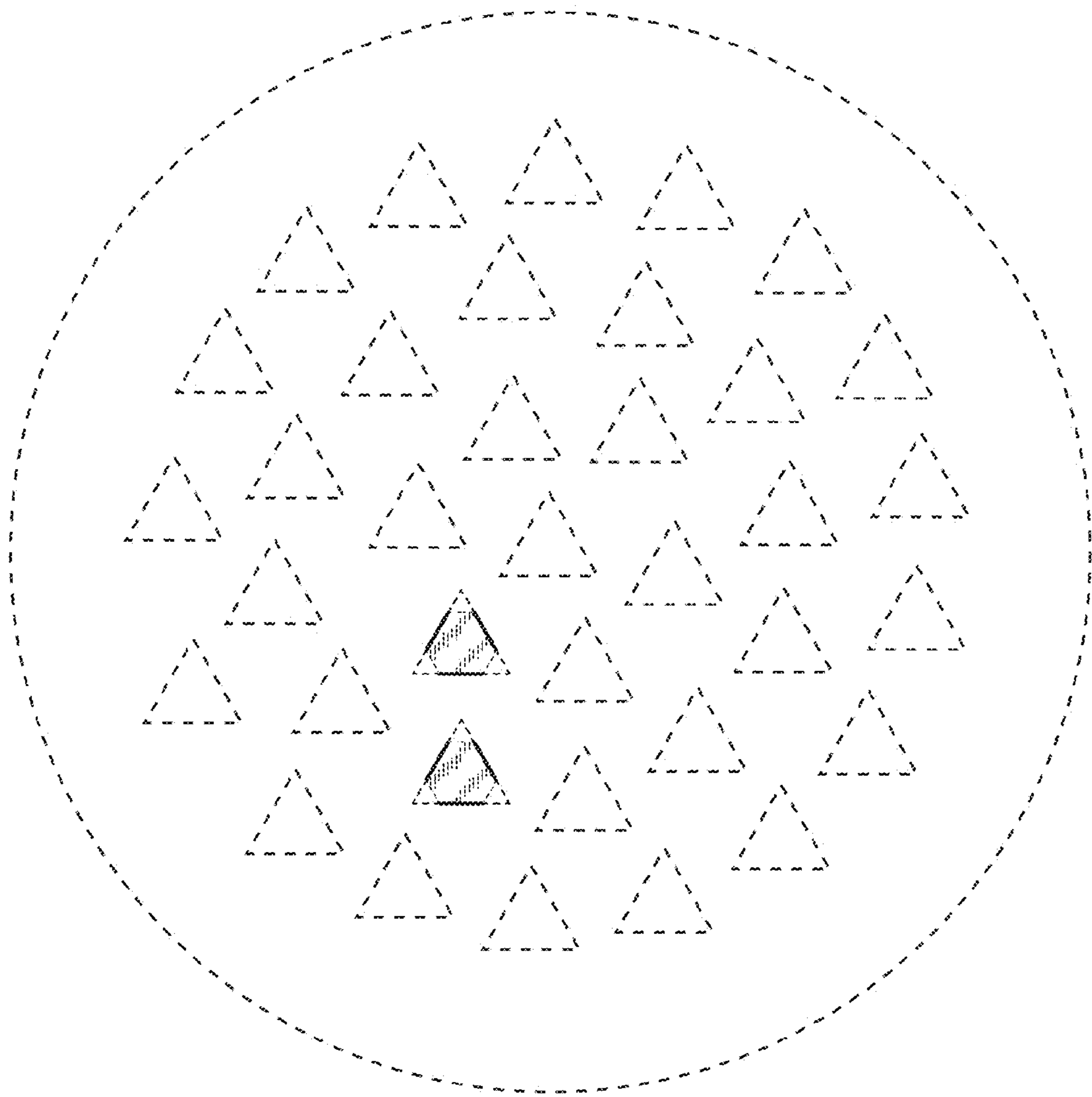


FIG. 13

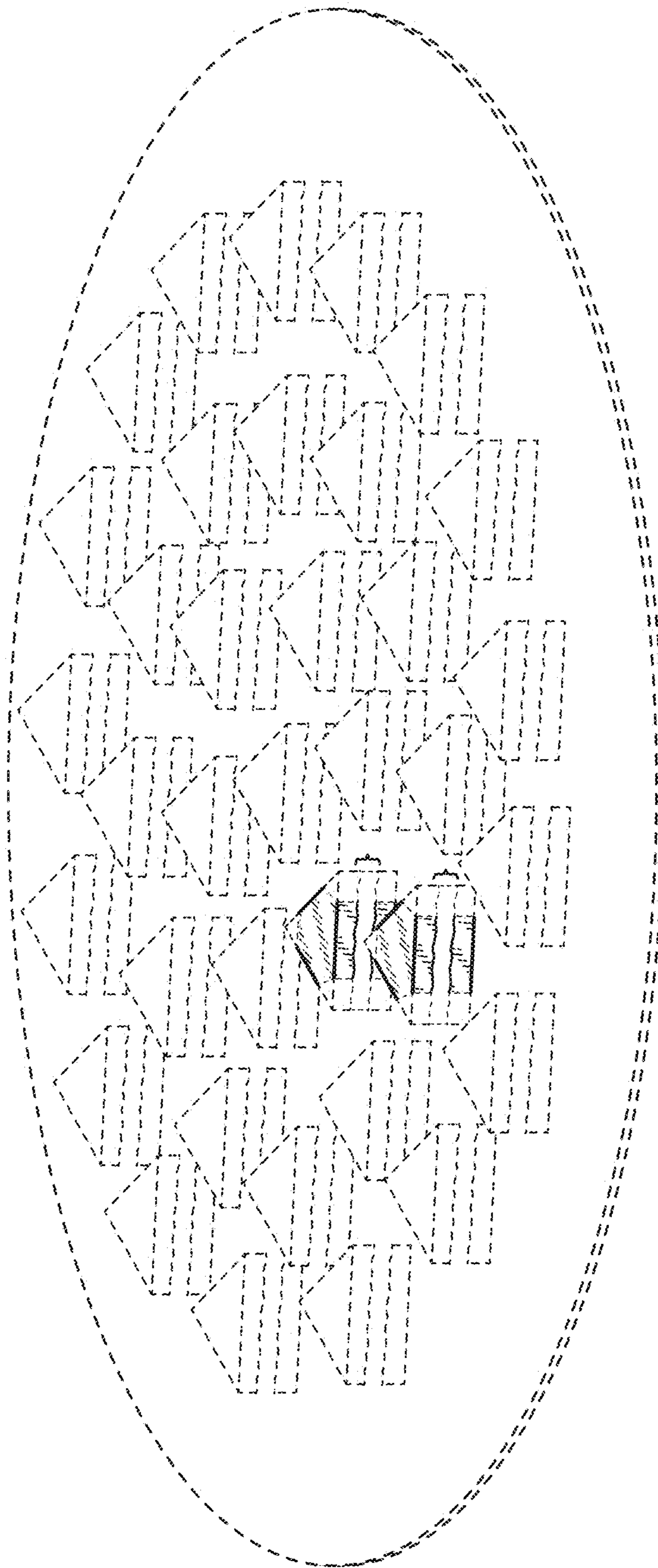


FIG. 14

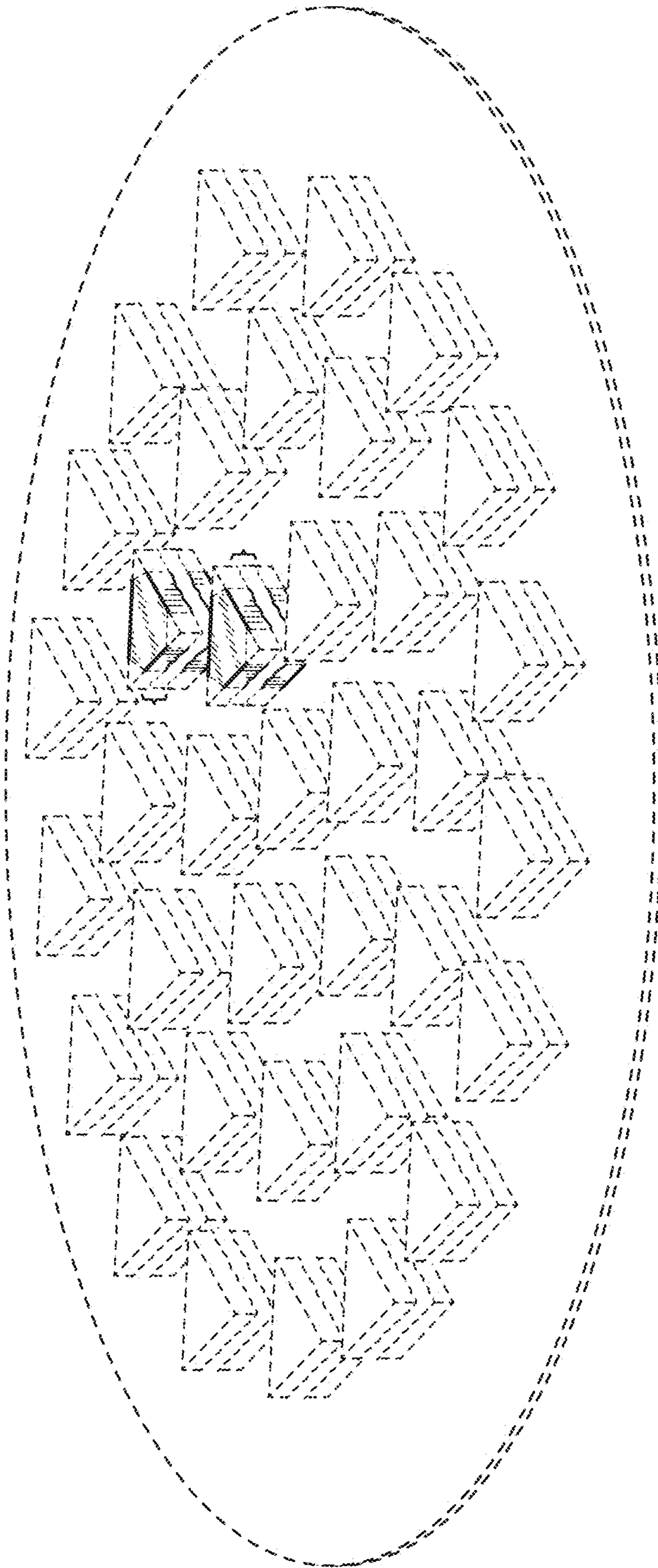


FIG. 15