



US00D772191S

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

(10) **Patent No.:** **US D772,191 S**

(45) **Date of Patent:** **\*\* Nov. 22, 2016**

(54) **MULTI-LAYER VOICE MUFFLER**

(71) Applicant: **Mark Ludwig**, Munich (DE)

(72) Inventor: **Mark Ludwig**, Munich (DE)

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

(21) Appl. No.: **29/474,680**

(22) Filed: **Dec. 29, 2014**

(51) **LOC (10) Cl.** ..... **14-03**

(52) **U.S. Cl.**

USPC ..... **D14/187**

(58) **Field of Classification Search**

USPC ..... D10/120; D14/204, 185-187, 207, 208,  
D14/221, 222; 181/144, 147, 148, 150,  
181/152-155, 157, 159, 171, 174; 359/804,  
359/805, 809-811; 381/24, 88-90, 153,  
381/159, 182, 203-205

CPC ..... G10K 11/08; G10K 11/16; H04B 1/38;  
H04M 1/00; H04M 1/19

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

887,124 A	5/1908	Ralston	
1,004,995 A	10/1911	Clarke	
1,381,470 A *	6/1921	Kelleher	..... H04M 1/19 181/242
1,399,083 A	12/1921	Scher	
1,776,584 A	9/1930	Gerlach	
1,941,233 A *	12/1933	Staley	..... G10K 11/08 181/126
3,244,816 A	4/1966	Karms	
3,450,226 A *	6/1969	Kessler	..... G10K 11/08 181/180
3,796,842 A	3/1974	Guille	
4,125,218 A *	11/1978	DeBoer	..... A47G 19/2227 181/177
4,129,754 A	12/1978	Gore	
4,396,089 A	8/1983	Scully	
4,703,829 A *	11/1987	Hardt	..... G10K 11/08 181/178

4,792,013 A	12/1988	Boynton
4,834,212 A	5/1989	Figone et al.
4,932,495 A	6/1990	Chapman

(Continued)

**FOREIGN PATENT DOCUMENTS**

DE	10050559 C1	4/2002
KR	1020030085167 A	11/2003

**OTHER PUBLICATIONS**

Kansas City Kings Megaphone, announced Mar. 2006, [online], site visited Apr. 11, 2016. Available from Internet, <URL: <http://www.ebay.ie>>.\*

(Continued)

*Primary Examiner* — Ian Simmons  
*Assistant Examiner* — Janice Lim

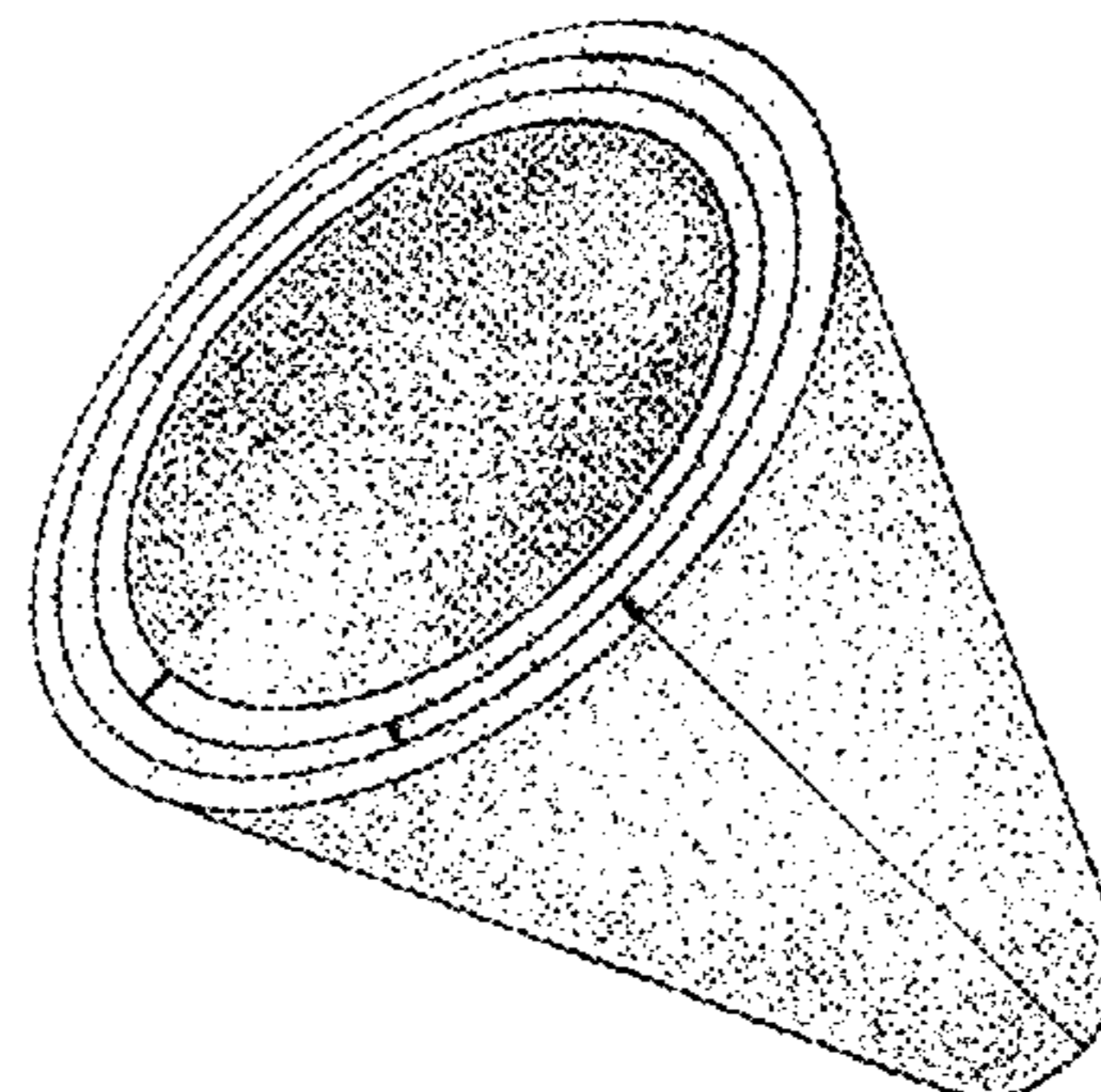
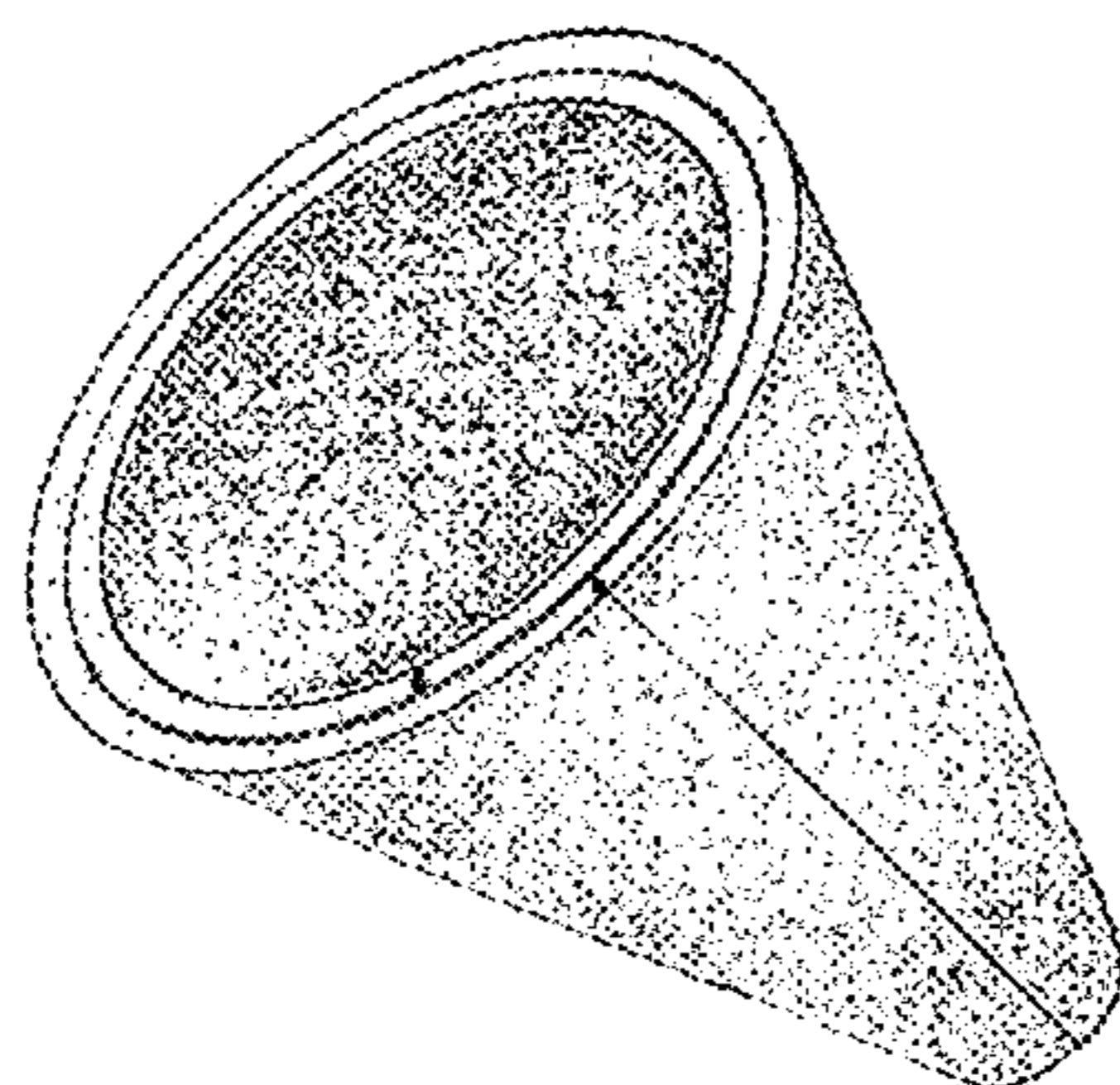
(57) **CLAIM**

The ornamental design for a multi-layer voice muffler, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of embodiment one, of a multi-layer voice muffler, showing my new design; FIG. 2 is a top plan view thereof; FIG. 3 is a bottom plan view thereof, side and opposite side elevational views being mirror images thereof; FIG. 4 is a front elevational view thereof; FIG. 5 is a rear elevational view thereof; FIG. 6 is an exploded top plan view thereof, shown in unassembled condition, and the exploded bottom plan view being a mirror image thereof; FIG. 7 is a perspective view of embodiment two, of a multi-layer voice muffler, showing my new design; FIG. 8 is a top plan view thereof; FIG. 9 is a bottom plan view thereof, side and opposite side elevational views being mirror images thereof; FIG. 10 is a front elevational view thereof; FIG. 11 is a rear elevational view thereof; and, FIG. 12 is an exploded top plan view thereof, shown in unassembled condition, and the exploded bottom plan view being a mirror image thereof.

**1 Claim, 4 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D333,409 S \* 2/1993 Dietzmann ..... D7/507  
5,413,094 A 5/1995 McBrearty  
D403,323 S \* 12/1998 Davies ..... D14/187  
D471,926 S \* 3/2003 Allen ..... D16/135  
7,197,140 B2 3/2007 Asaro  
7,515,708 B1 4/2009 Doty, III et al.  
7,783,034 B2 8/2010 Manne  
8,191,673 B1 \* 6/2012 Peaslee ..... G10K 11/08  
181/178  
8,243,944 B2 8/2012 Almagro  
2004/0259602 A1 12/2004 Zack

2005/0184137 A1\* 8/2005 Dorsey ..... B65D 1/265  
229/103  
2008/0185424 A1\* 8/2008 Richie ..... B65D 3/06  
229/103  
2009/0114474 A1\* 5/2009 Morgan ..... G09F 21/02  
181/178

OTHER PUBLICATIONS

Shindigz Cheerphone, announced Jun. 2011, [online], site visited  
Apr. 11, 2016. Available from Internet, <URL: <http://www.amazon.com>>.\*

\* cited by examiner

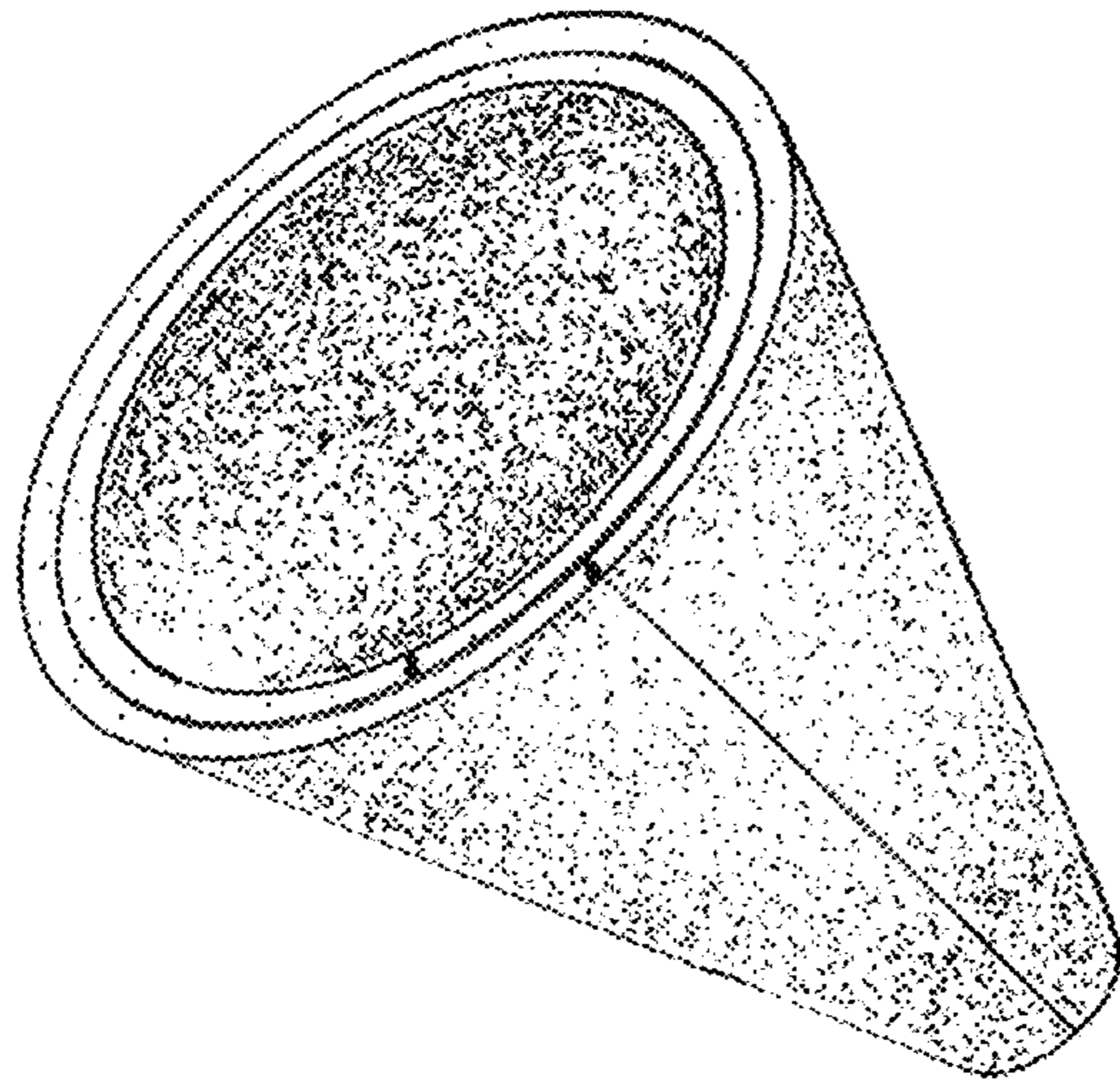


FIG. 1

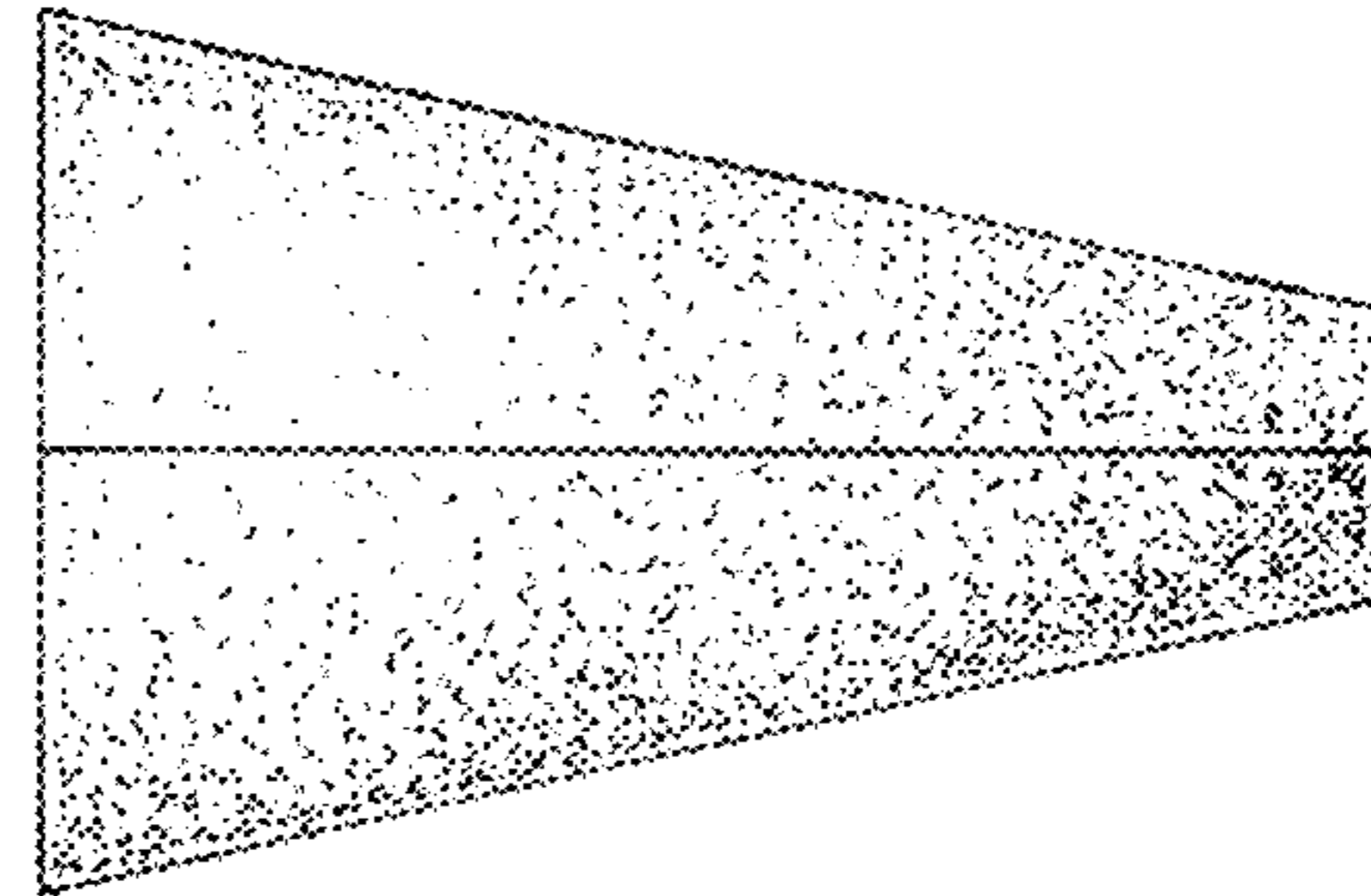


FIG. 2

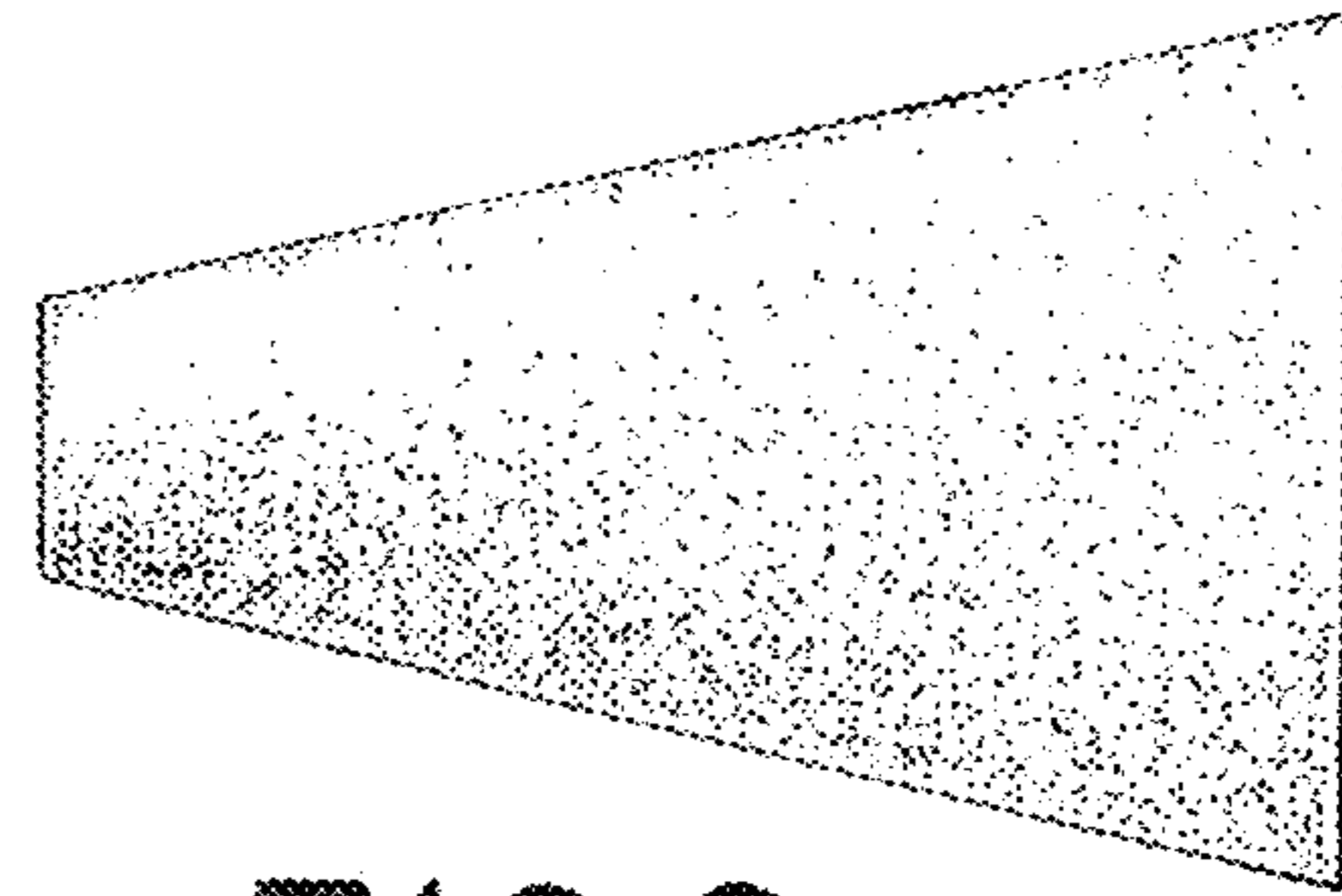


FIG. 3

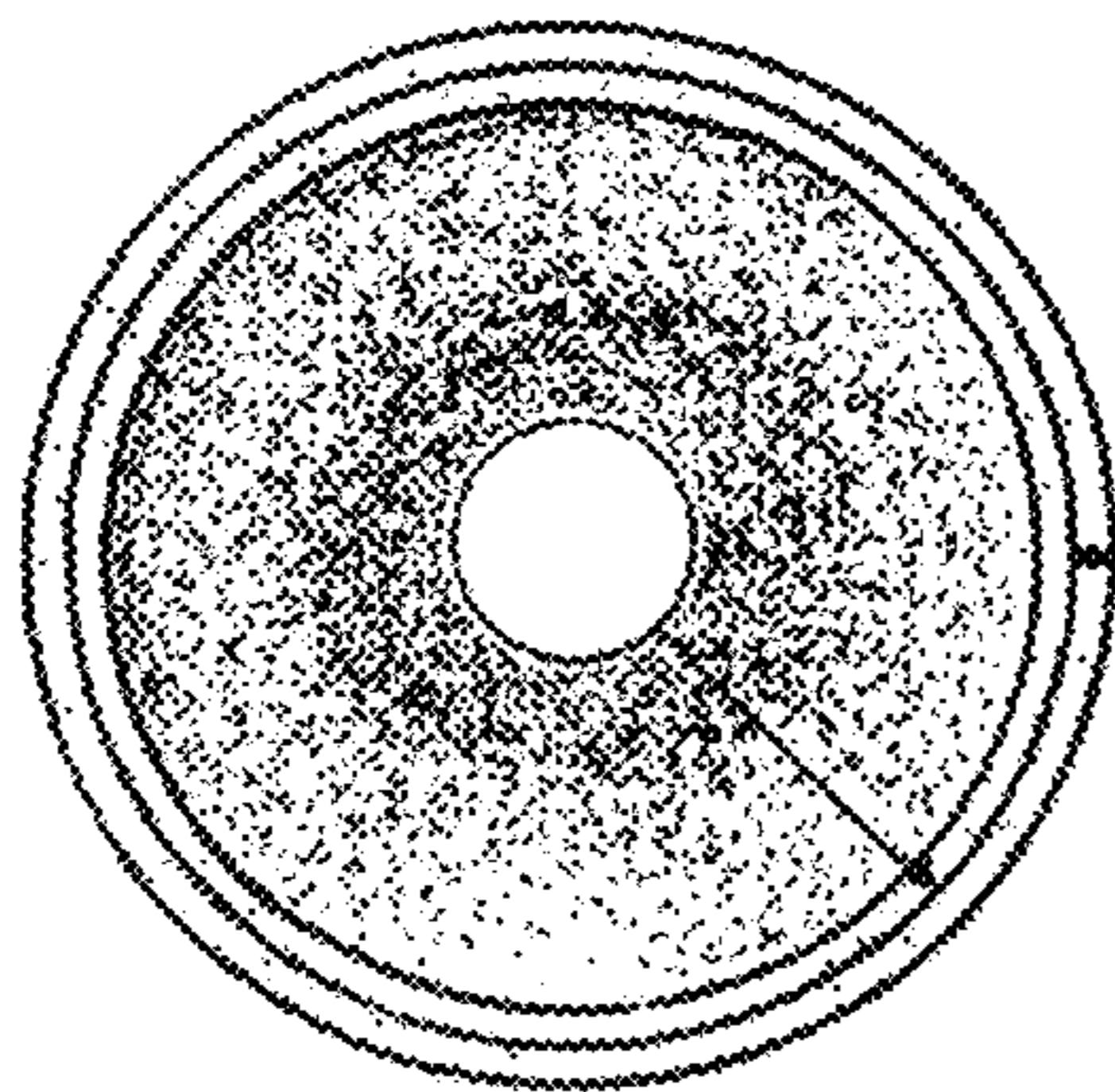


FIG. 4

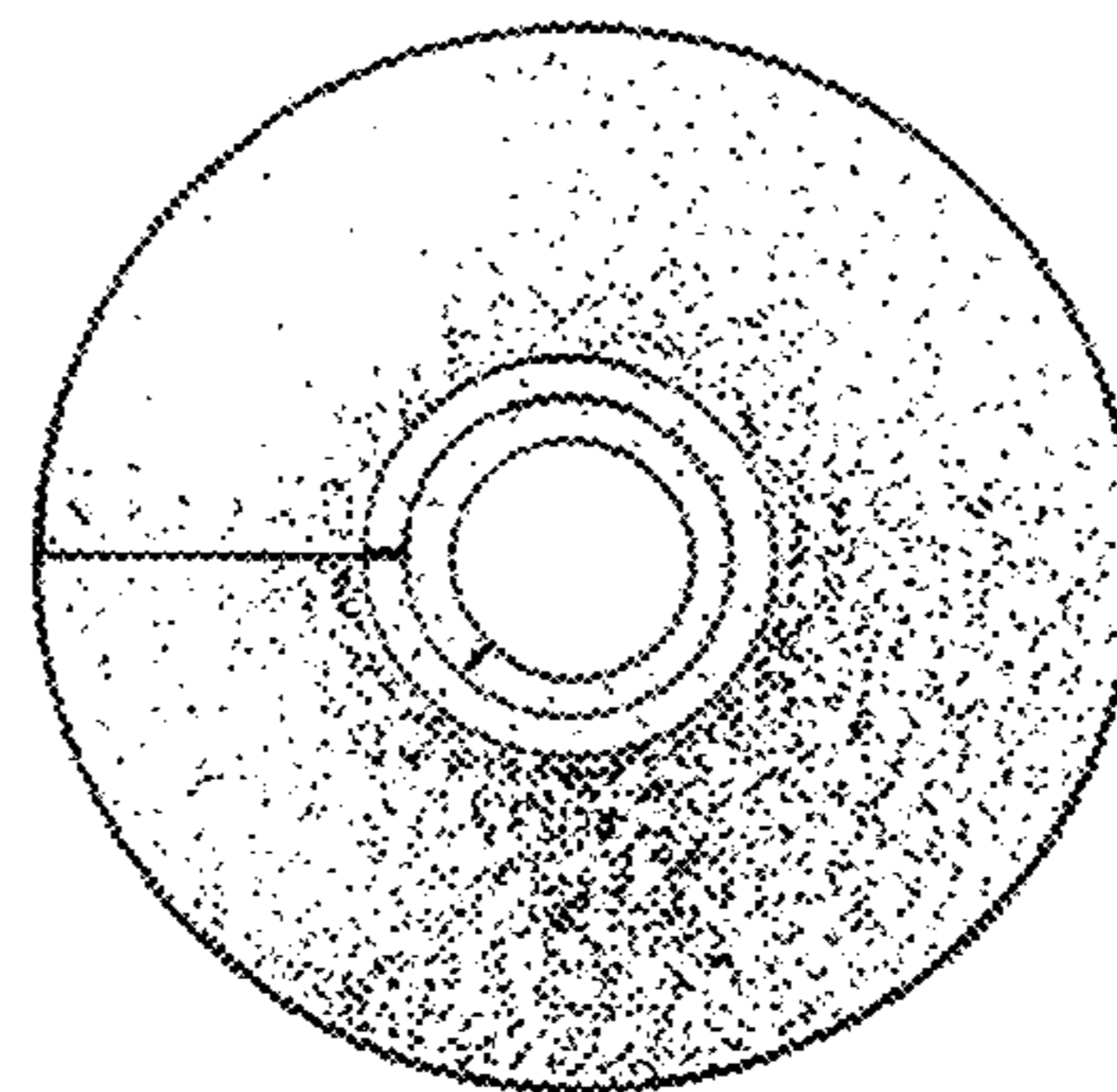


FIG. 5

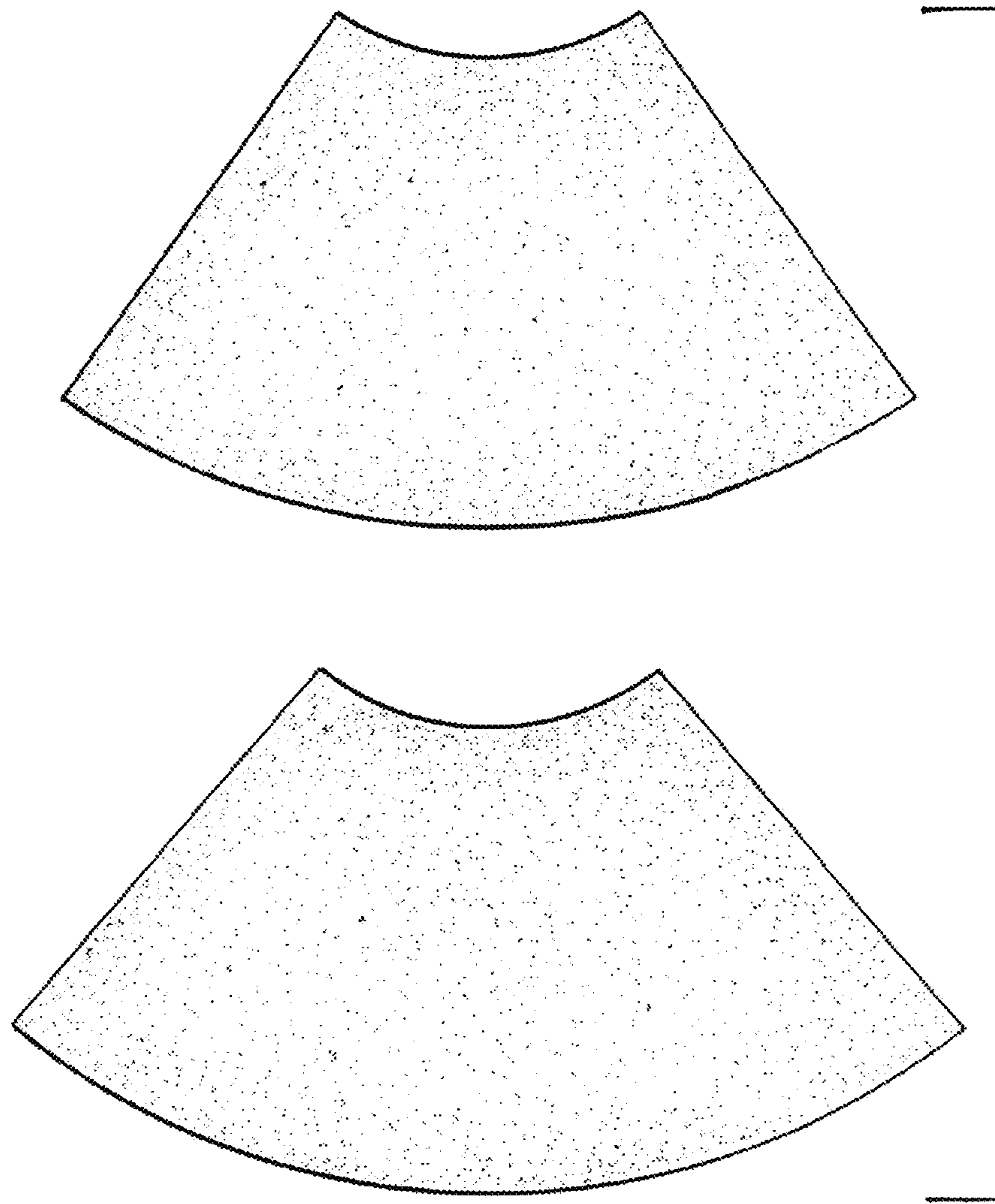


FIG. 6

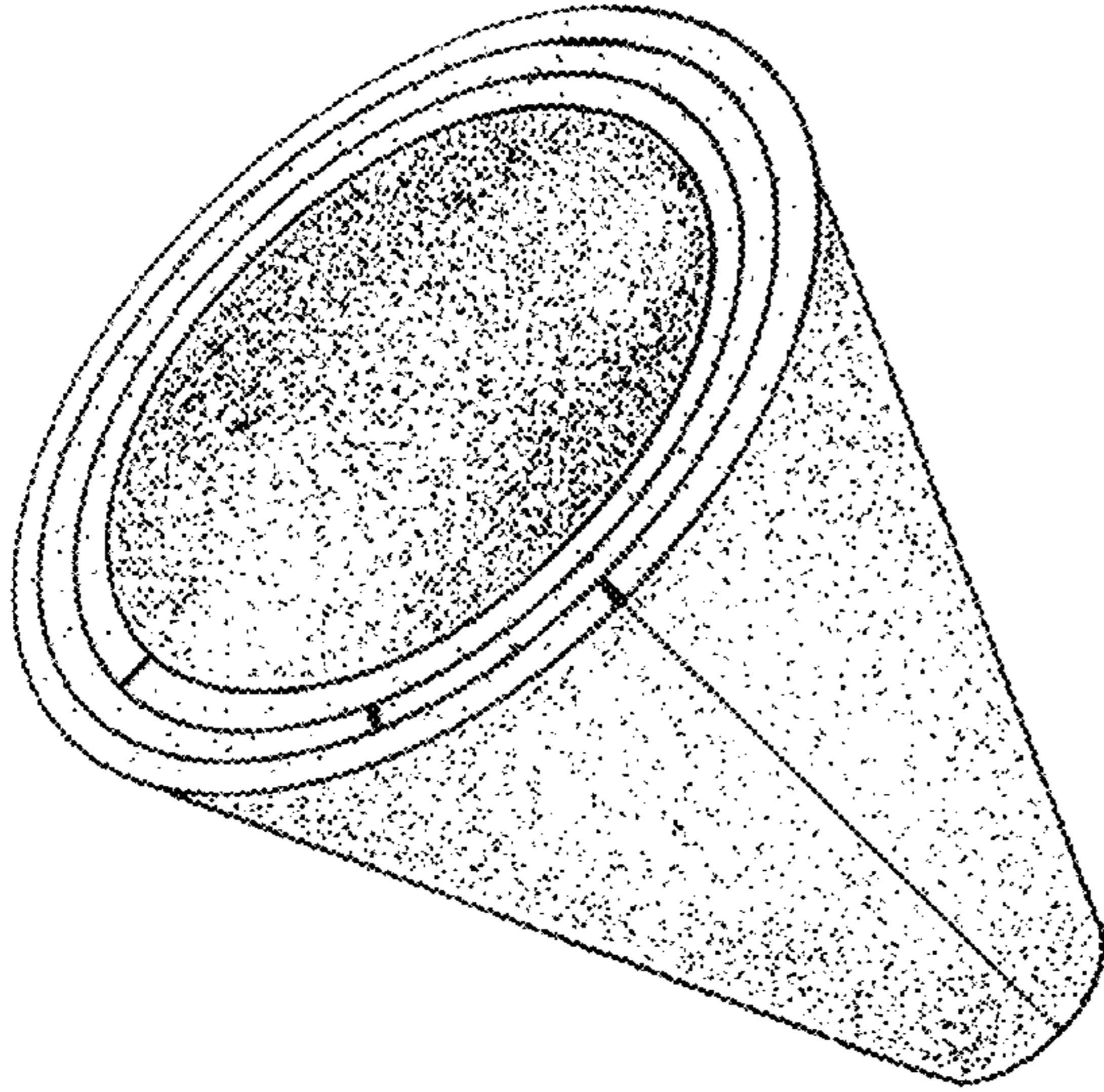


FIG. 7

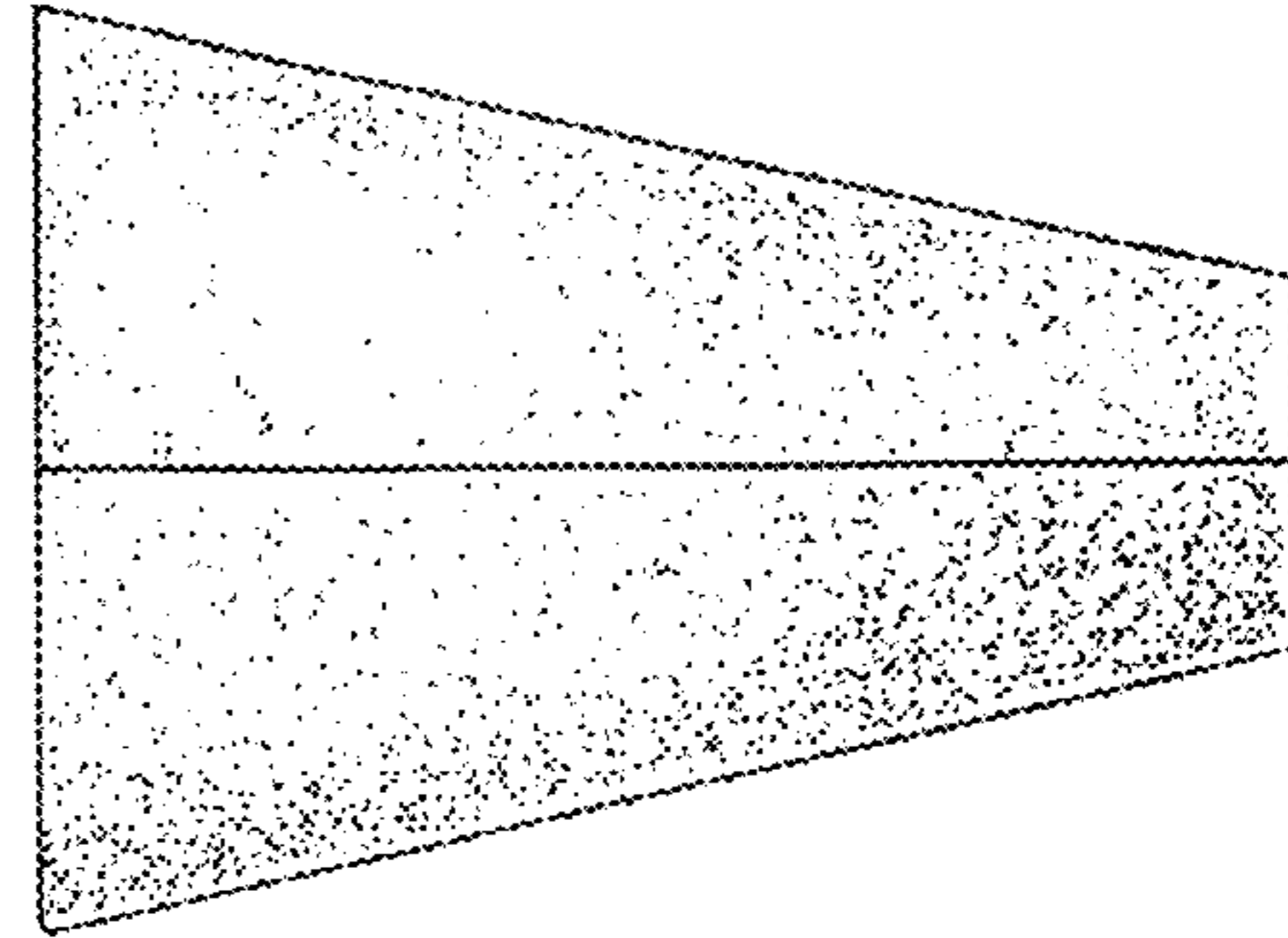


FIG. 8

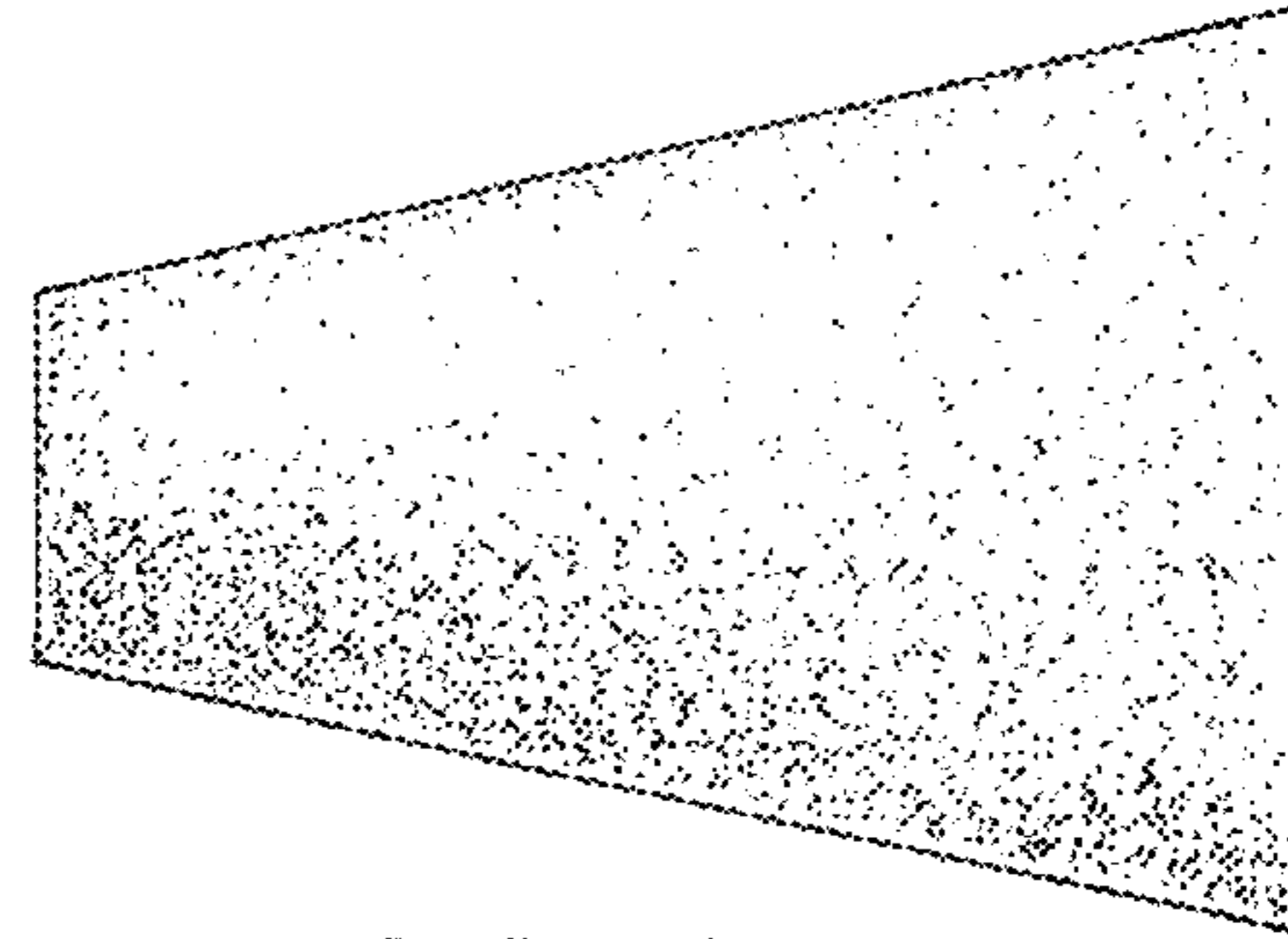


FIG. 9

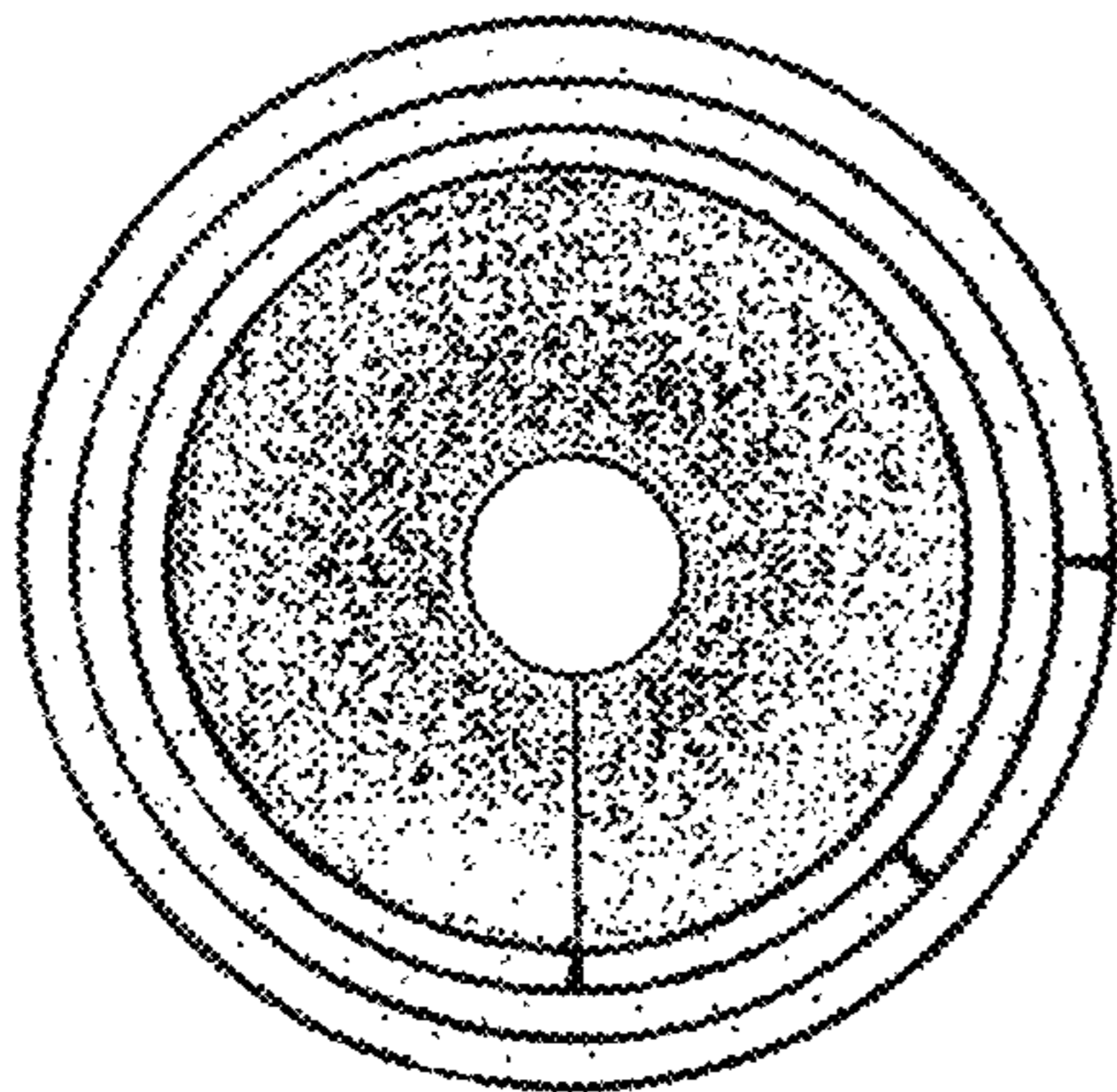


FIG. 10

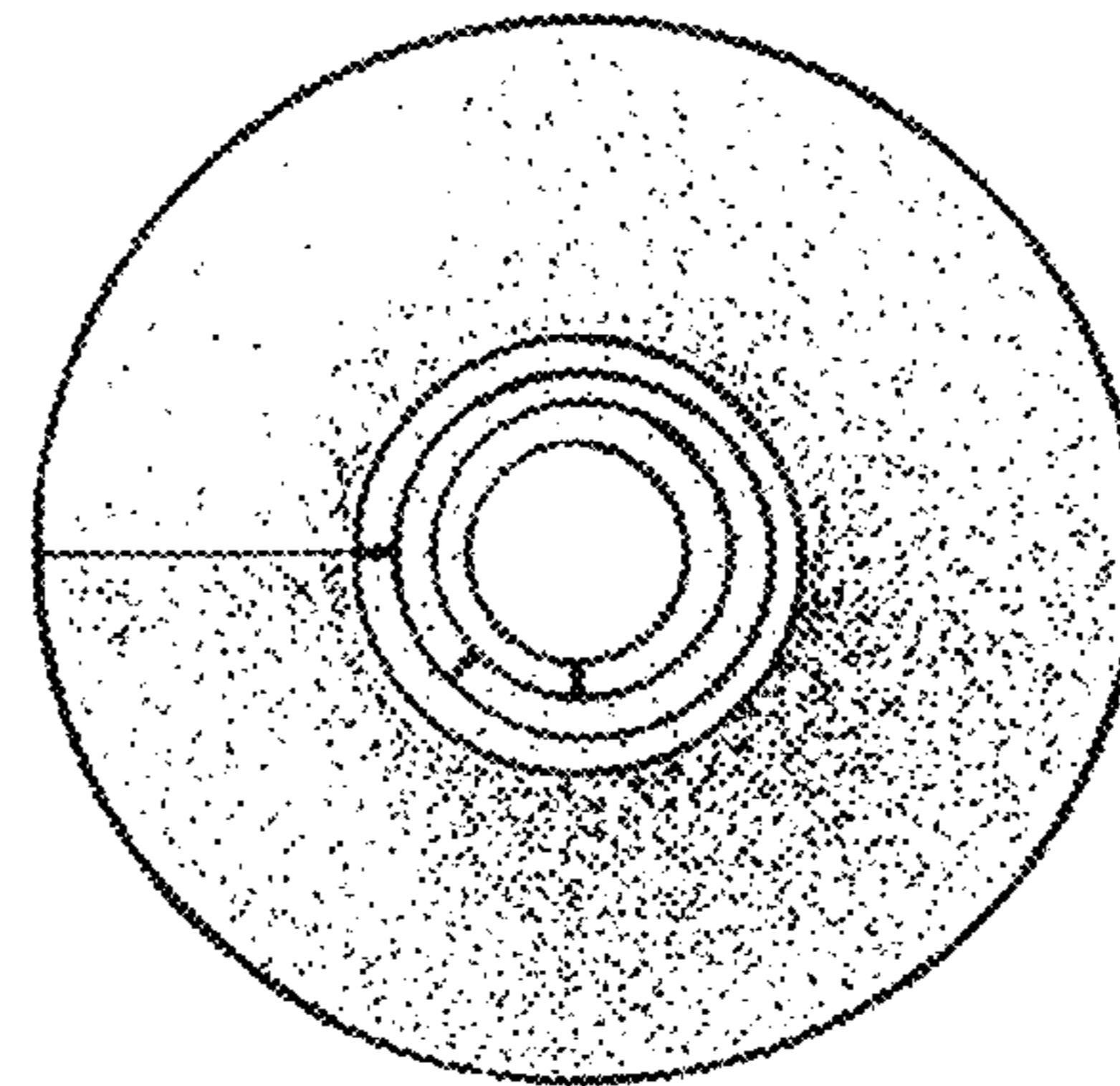


FIG. 11

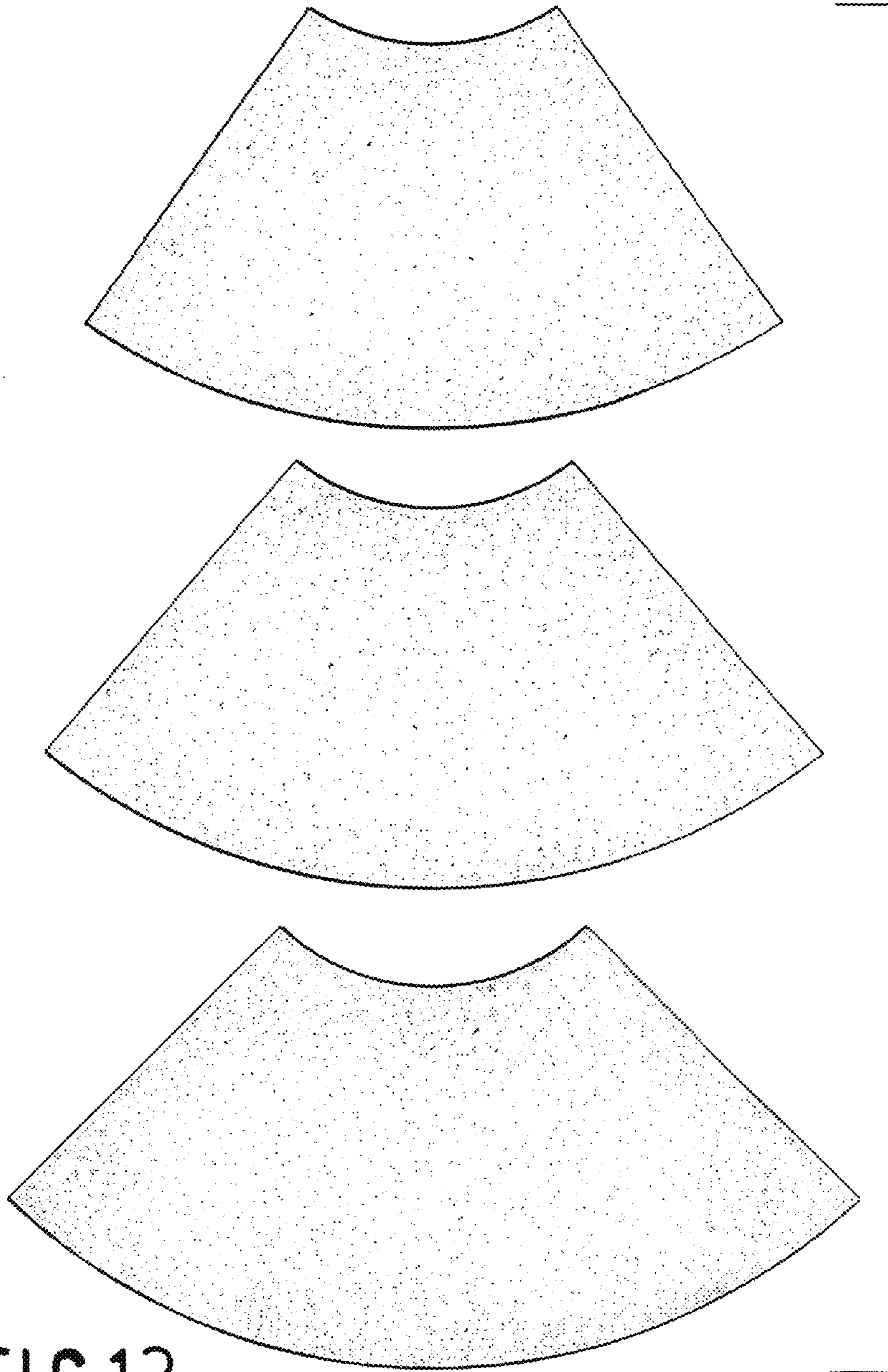


FIG.12