



US00D674759S

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

(10) **Patent No.:** **US D674,759 S**
(45) **Date of Patent:** **** Jan. 22, 2013**

(54) **WAFER CARRIER**

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Chia-Sheng Chang, Hsinchu (TW)

(73) Assignee: **Epistar Corporation**, Hsinchu (TW)

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

(21) Appl. No.: **29/385,727**

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(Under 37 CFR 1.47)

(30) **Foreign Application Priority Data**

Aug. 19, 2010 (CN) 2010 3 0290123

(51) **LOC (9) Cl.** **13-03**

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

(58) **Field of Classification Search** D13/182;
118/500, 728, 729; 156/345.53; 279/128;
361/234; 451/287, 288, 289

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,731,435 A * 5/1973 Boettcher et al. 451/288
(Continued)

Primary Examiner — Selina Sikder

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LLP; Tim Tingkang Xia, Esq.

(57) **CLAIM**

The ornamental design for a “wafer carrier,” as shown and
described.

DESCRIPTION

FIG. 1 is a perspective view of the first embodiment showing
the claimed design;

FIG. 2 is a front elevational view of FIG. 1;

FIG. 3 is a rear elevational view of FIG. 1;

FIG. 4 is a right side elevational view of FIG. 1, which is a
mirror image of the left side elevational view;

FIG. 5 is a bottom plan view of FIG. 1, which is a mirror
image of the top plan view;

FIG. 6 is a perspective view of the second embodiment show-
ing the claimed design;

FIG. 7 is a front elevational view of FIG. 6;

FIG. 8 is a rear elevational view of FIG. 6;

FIG. 9 is a right side elevational view of FIG. 6, which is a
mirror image of the left side elevational view;

FIG. 10 is a bottom plan view of FIG. 6, which is a mirror
image of the top plan view;

FIG. 11 is a perspective view of the third embodiment show-
ing the claimed design;

FIG. 12 is a front elevational view of FIG. 11;

FIG. 13 is a rear elevational view of FIG. 11;

FIG. 14 is a right side elevational view of FIG. 11, which is a
mirror image of the left side elevational view;

FIG. 15 is a bottom plan view of FIG. 11, which is a mirror
image of the top plan view;

FIG. 16 is a perspective view of the fourth embodiment show-
ing the claimed design;

FIG. 17 is a front elevational view of FIG. 16;

FIG. 18 is a rear elevational view of FIG. 16;

FIG. 19 is a right side elevational view of FIG. 16, which is a
mirror image of the left side elevational view;

FIG. 20 is a bottom plan view of FIG. 16, which is a mirror
image of the top plan view;

FIG. 21 is a perspective view of the fifth embodiment showing
the claimed design;

FIG. 22 is a front elevational view of FIG. 21;

FIG. 23 is a rear elevational view of FIG. 21;

FIG. 24 is a right side elevational view of FIG. 21, which is a
mirror image of the left side elevational view;

FIG. 25 is a bottom plan view of FIG. 21, which is a mirror
image of the top plan view;

FIG. 26 is a perspective view of the sixth embodiment show-
ing the claimed design;

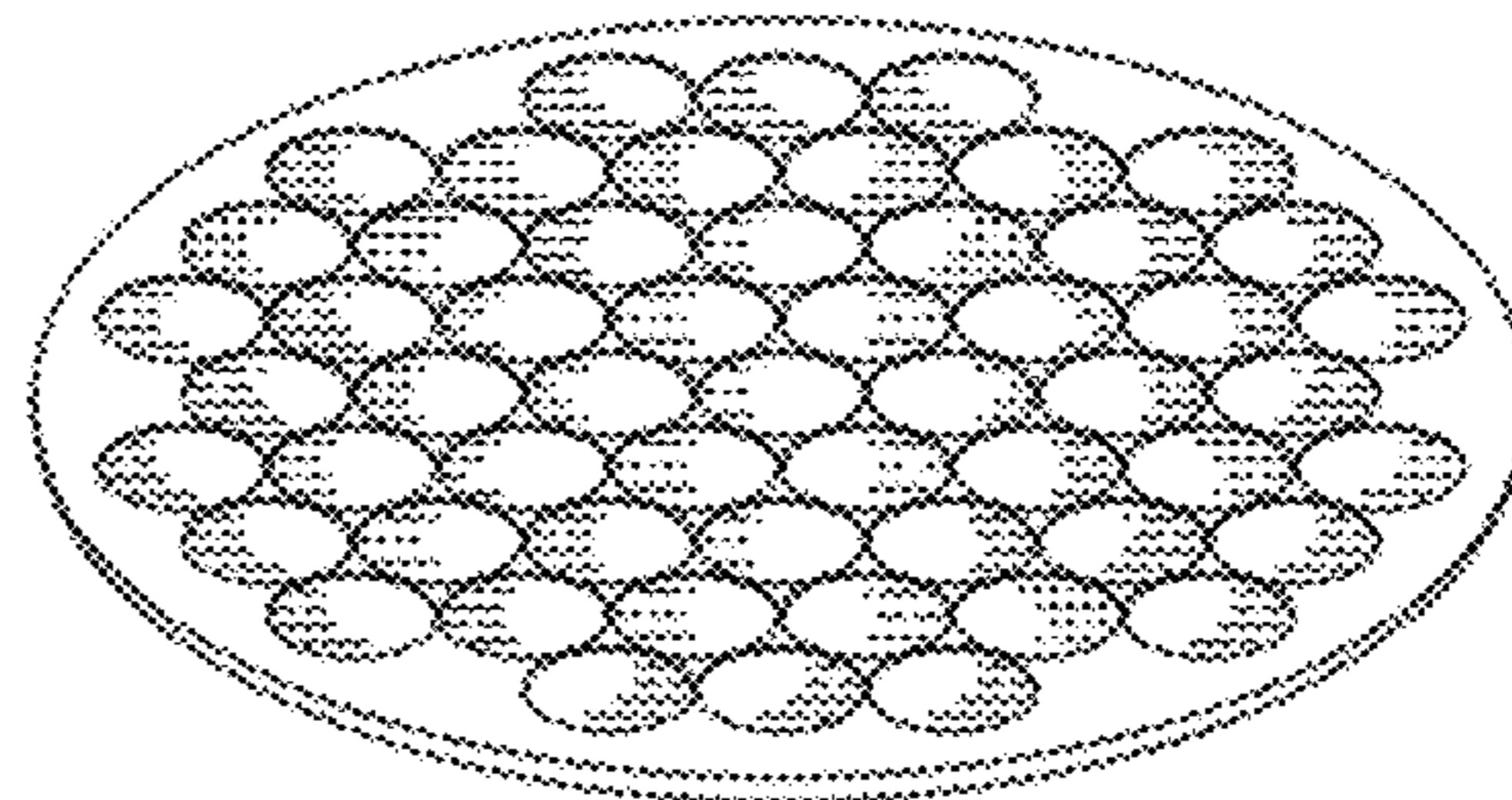
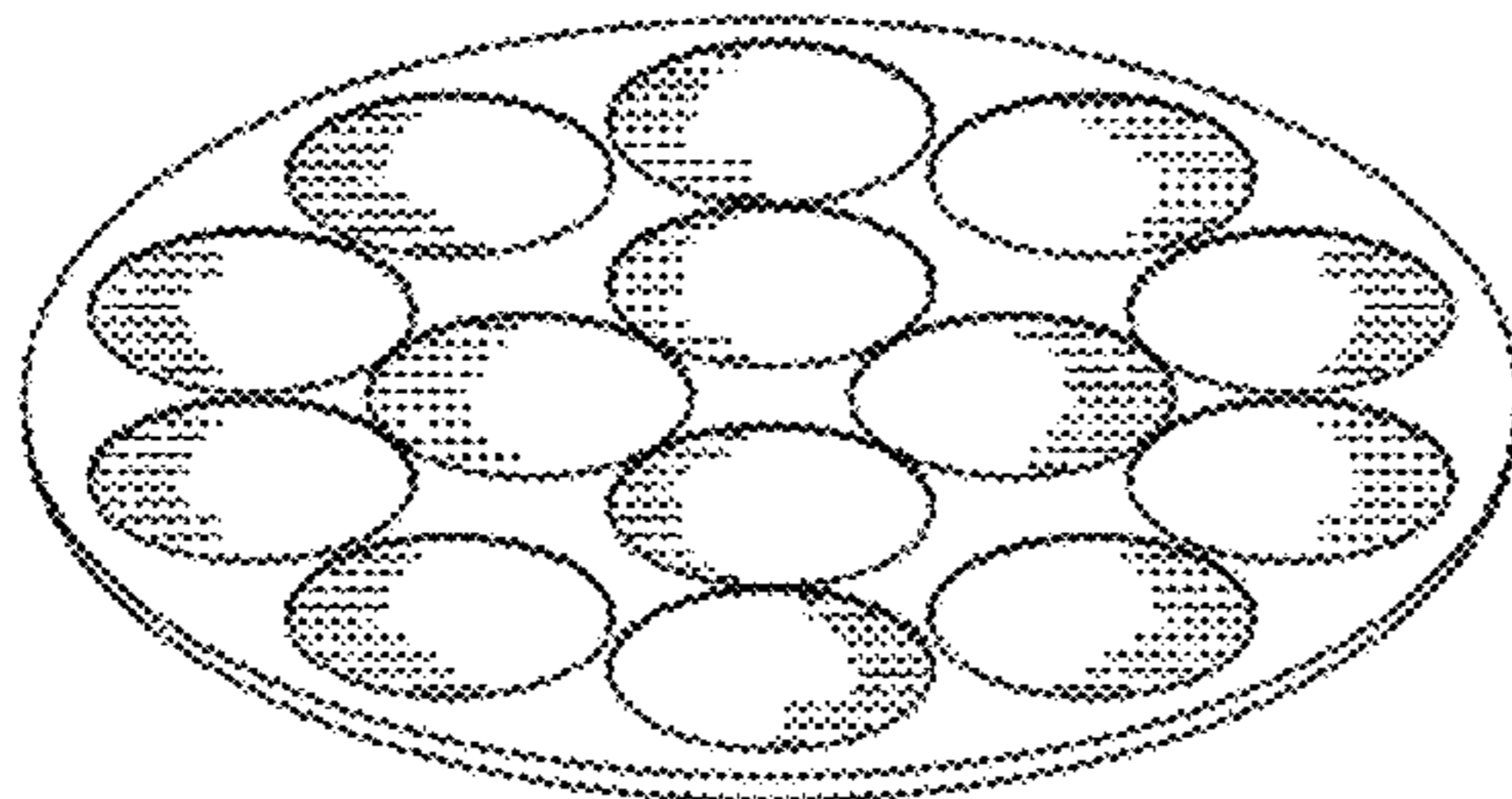
FIG. 27 is a front elevational view of FIG. 26;

FIG. 28 is a rear elevational view of FIG. 26;

FIG. 29 is a right side elevational view of FIG. 26, which is a
mirror image of the left side elevational view; and,

FIG. 30 is a bottom plan view of FIG. 26, which is a mirror
image of the top plan view.

1 Claim, 18 Drawing Sheets



US D674,759 S

Page 2

U.S. PATENT DOCUMENTS

4,165,584	A *	8/1979	Scherrer	.....	451/289	D548,705	S *	8/2007	Hayashi	.....	D13/182
5,191,738	A *	3/1993	Nakazato et al.	.....	451/41	D552,565	S *	10/2007	Nakamura et al.	.....	D13/182
5,422,316	A *	6/1995	Desai et al.	.....	438/693	8,177,993	B2 *	5/2012	Seah et al.	.....	216/83
6,315,649	B1 *	11/2001	Hu et al.	.....	451/285	8,182,315	B2 *	5/2012	Nguyen	.....	451/72
6,500,059	B2 *	12/2002	Chang et al.	.....	451/388	2002/0027762	A1 *	3/2002	Yamaguchi	.....	361/234
6,666,948	B2 *	12/2003	Nguyen	.....	156/345.12	2003/0057089	A1 *	3/2003	Nguyen	.....	204/298.15
6,988,942	B2 *	1/2006	Chen et al.	.....	451/533	2004/0179323	A1 *	9/2004	Litman et al.	.....	361/234
7,235,139	B2 *	6/2007	Boguslavskiy et al.	.....	118/728	2009/0247057	A1 *	10/2009	Kobayashi et al.	.....	451/287
D546,784	S *	7/2007	Hayashi	.....	D13/182						

* cited by examiner

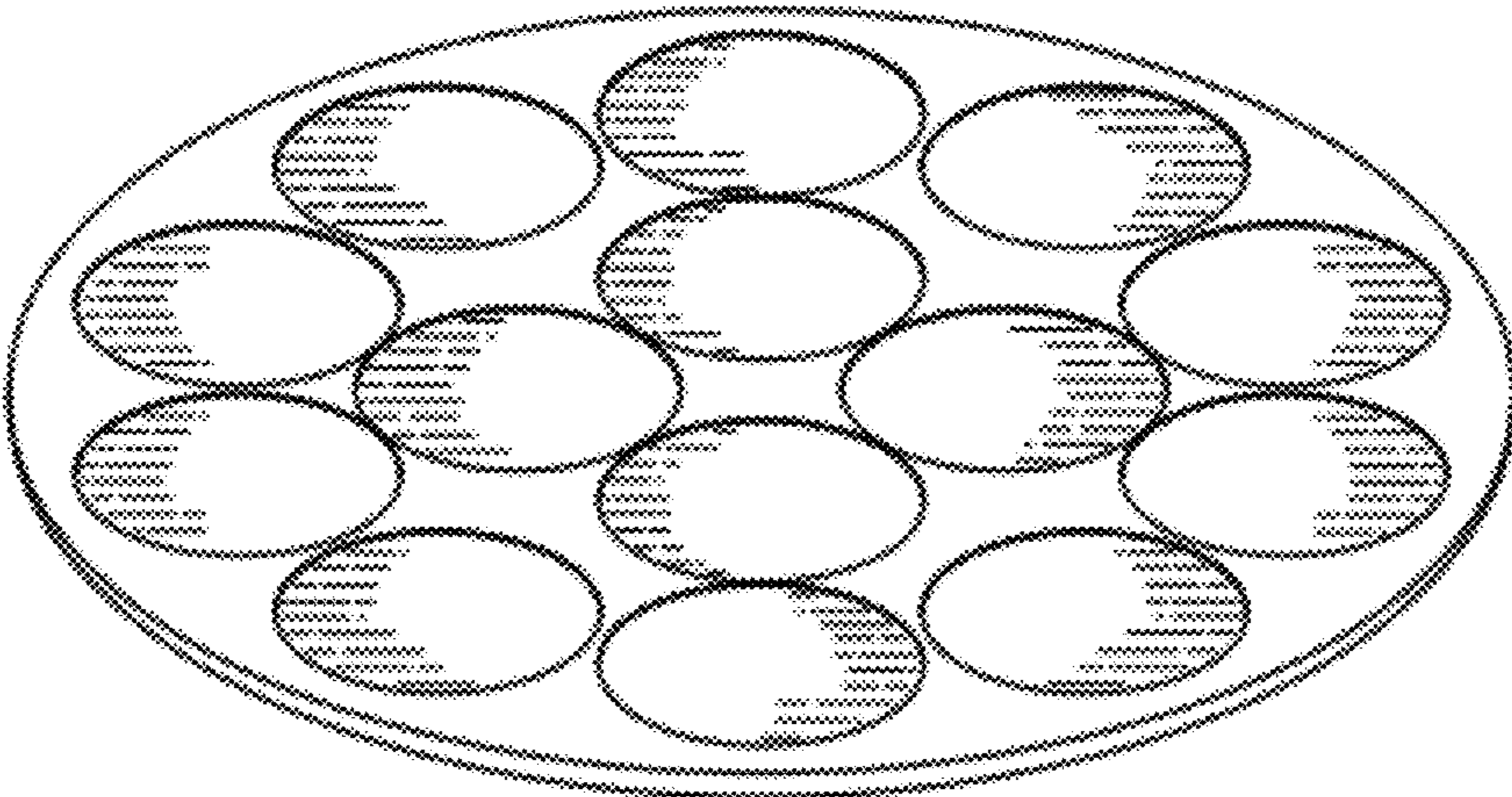


FIG.1

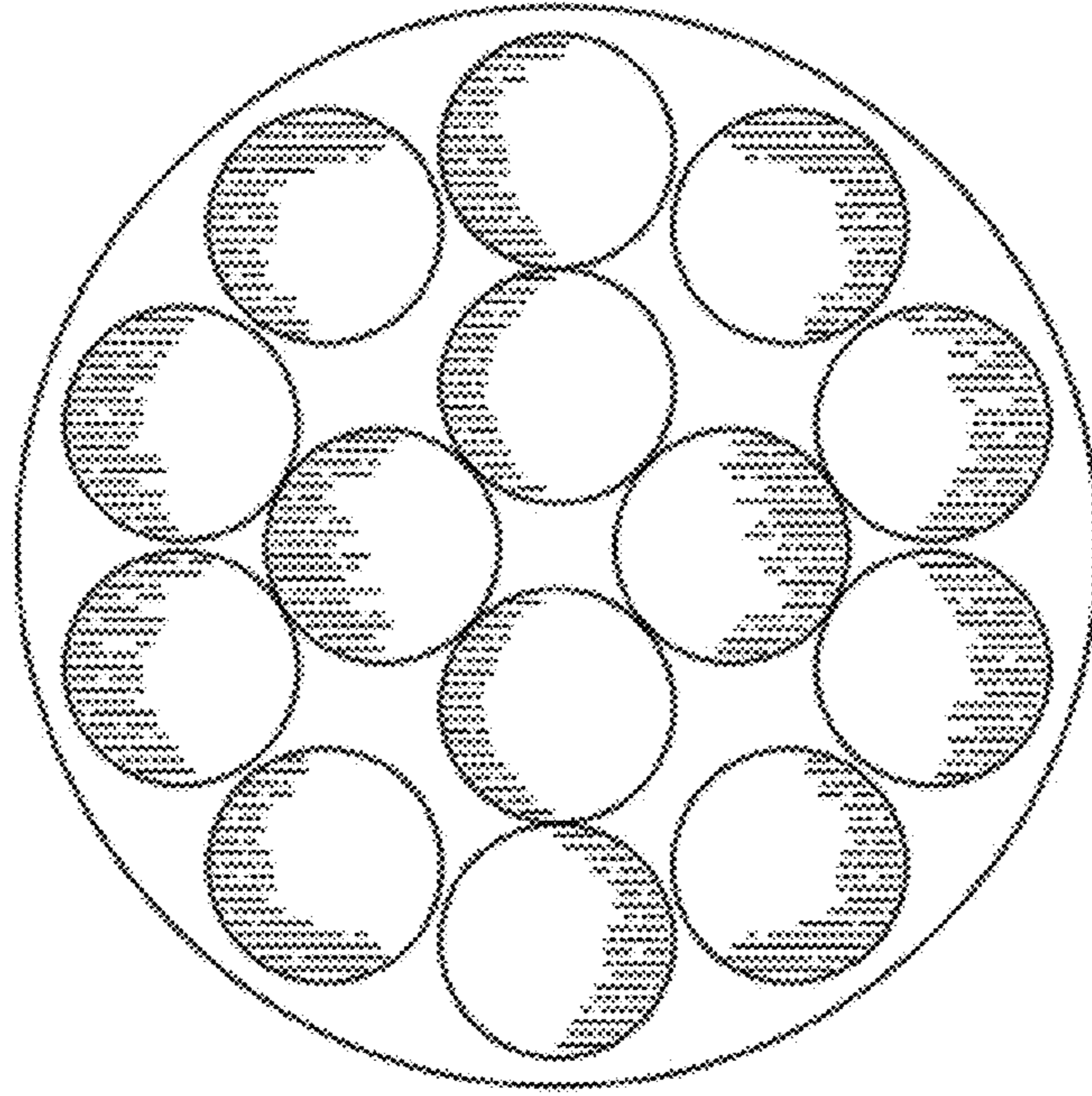


FIG. 2

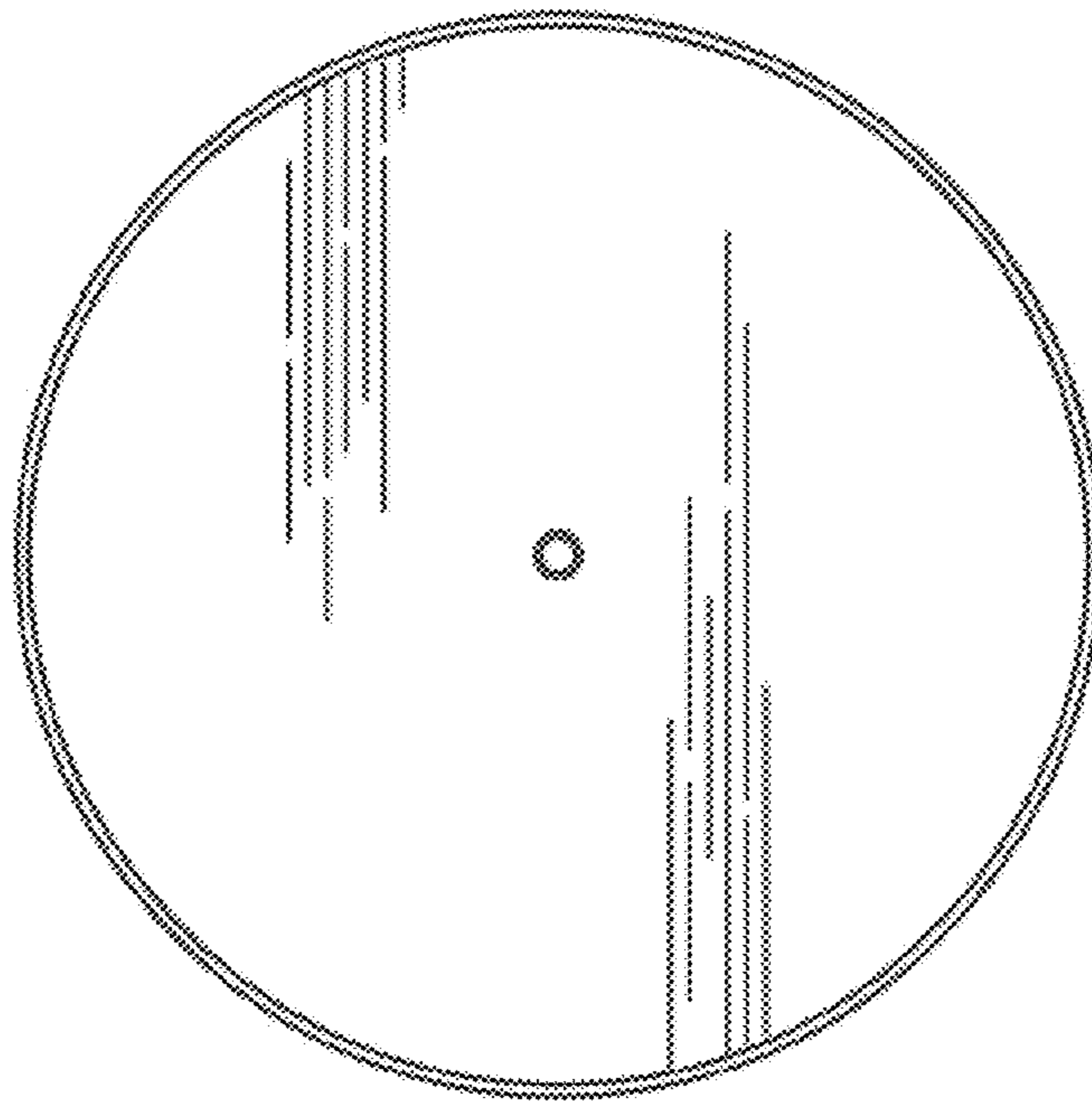


FIG. 3



FIG. 4

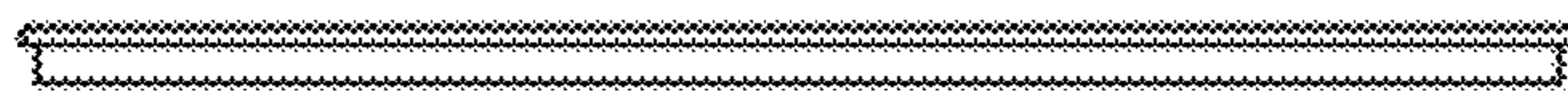


FIG. 5

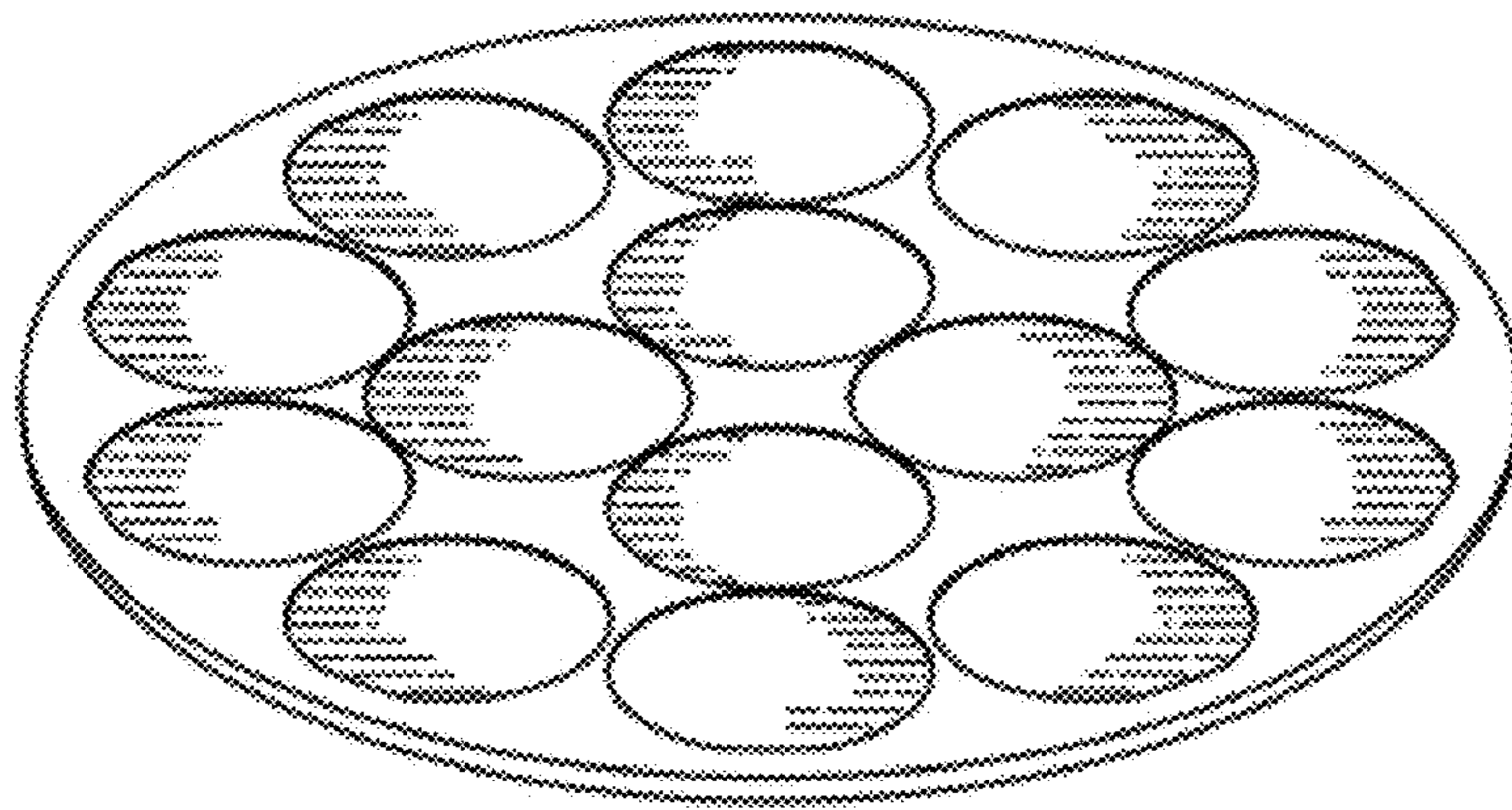


FIG.6

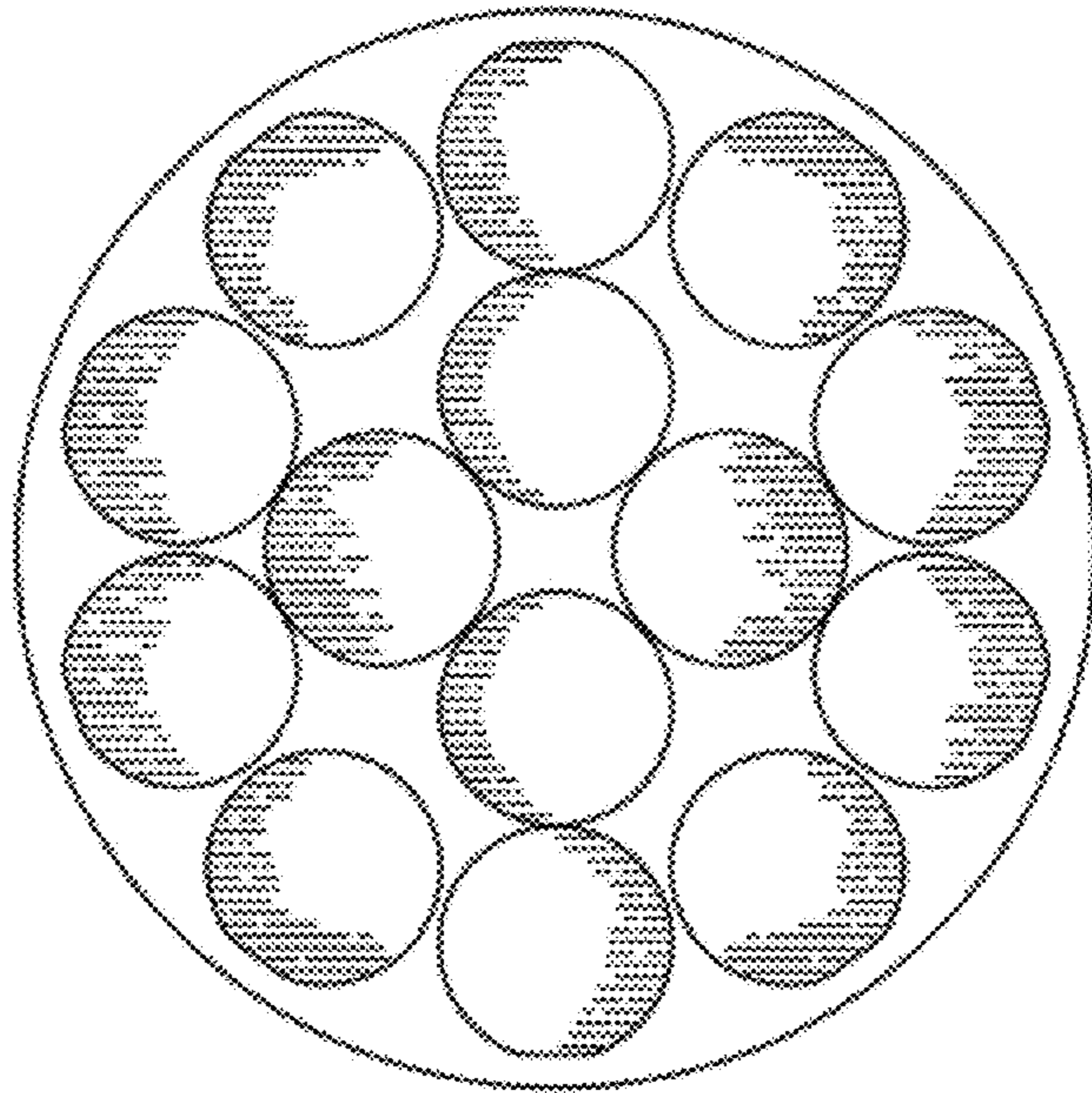


FIG. 7

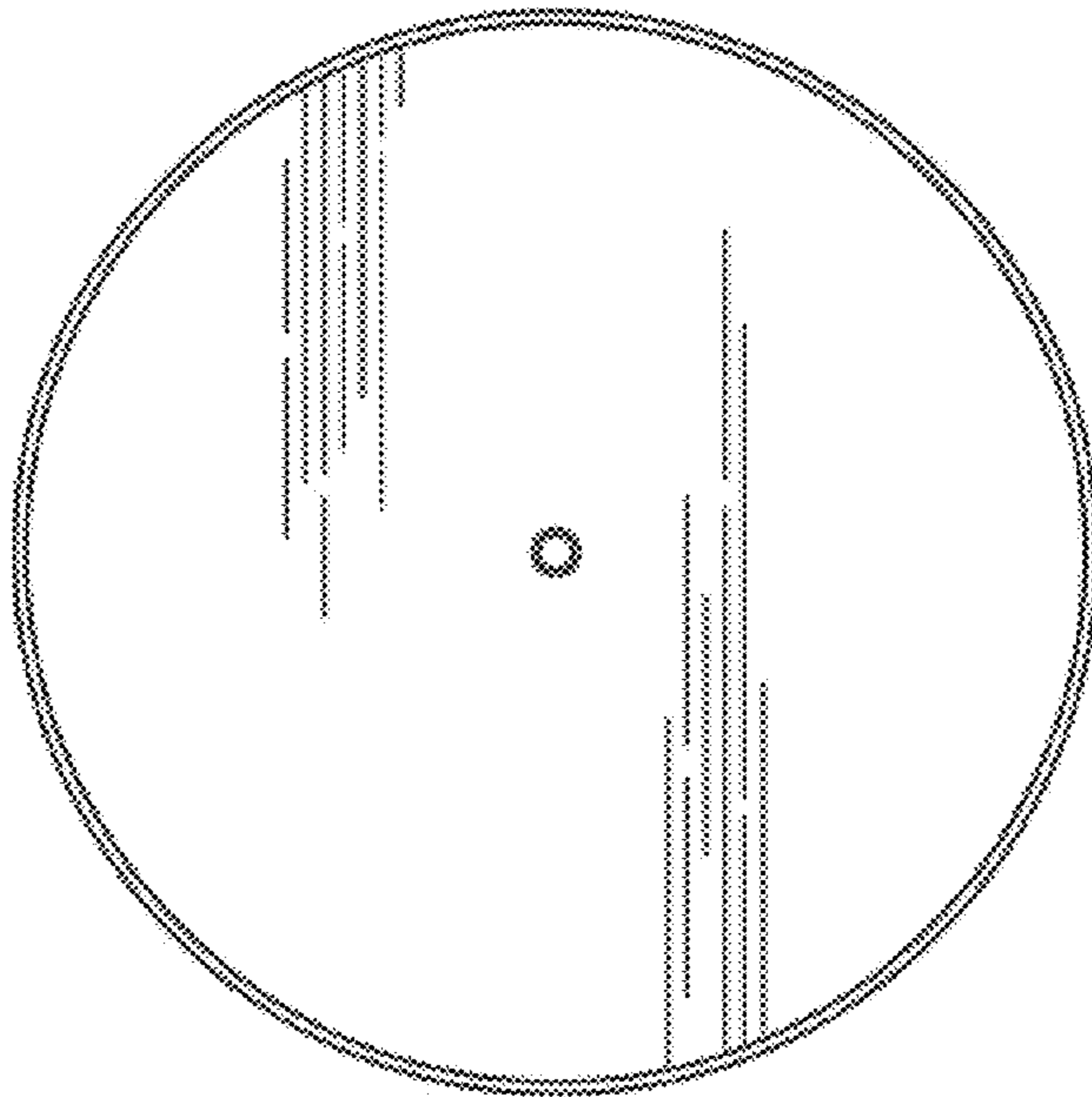


FIG. 8



FIG. 9



FIG. 10

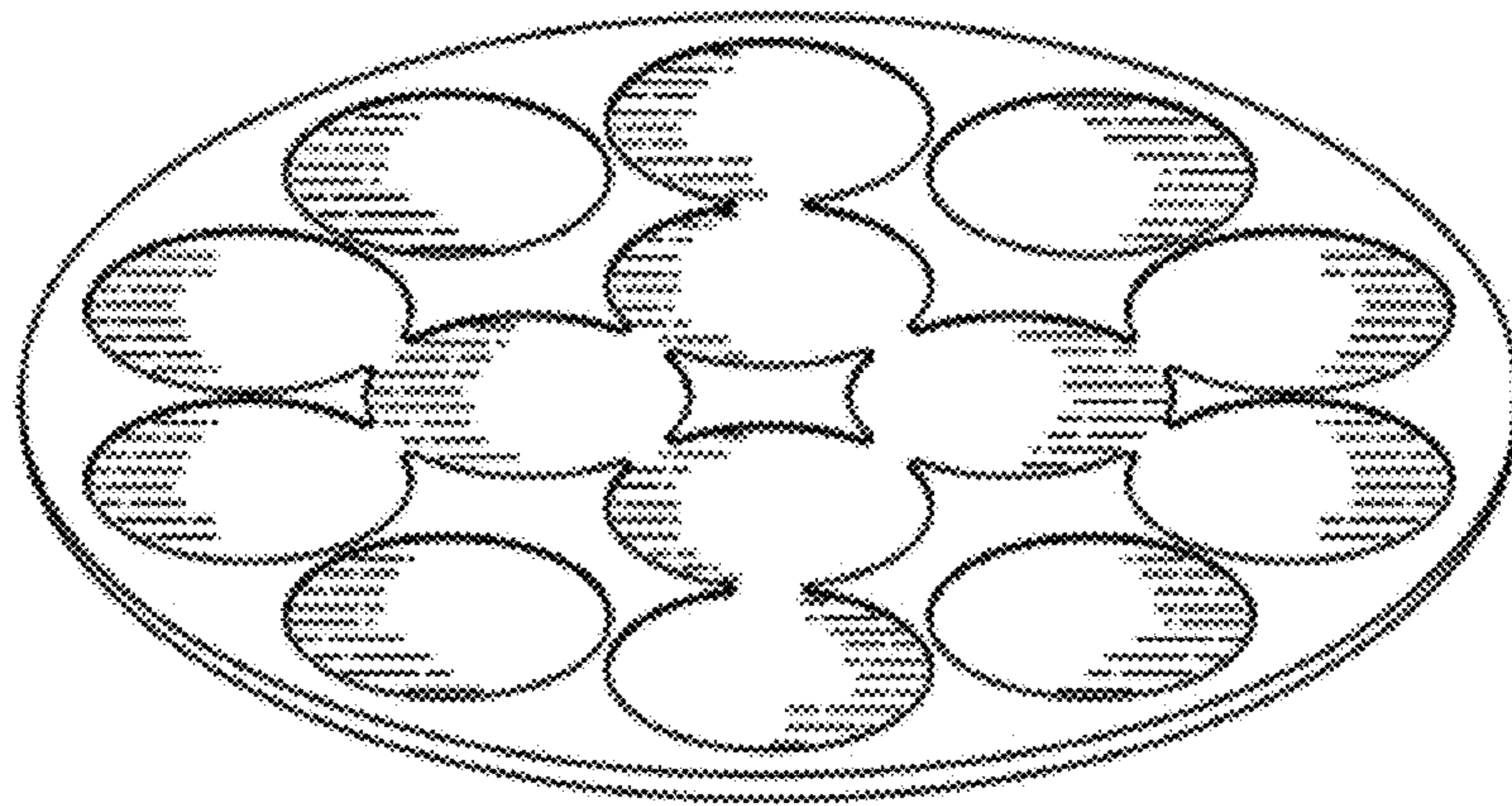


FIG. 11

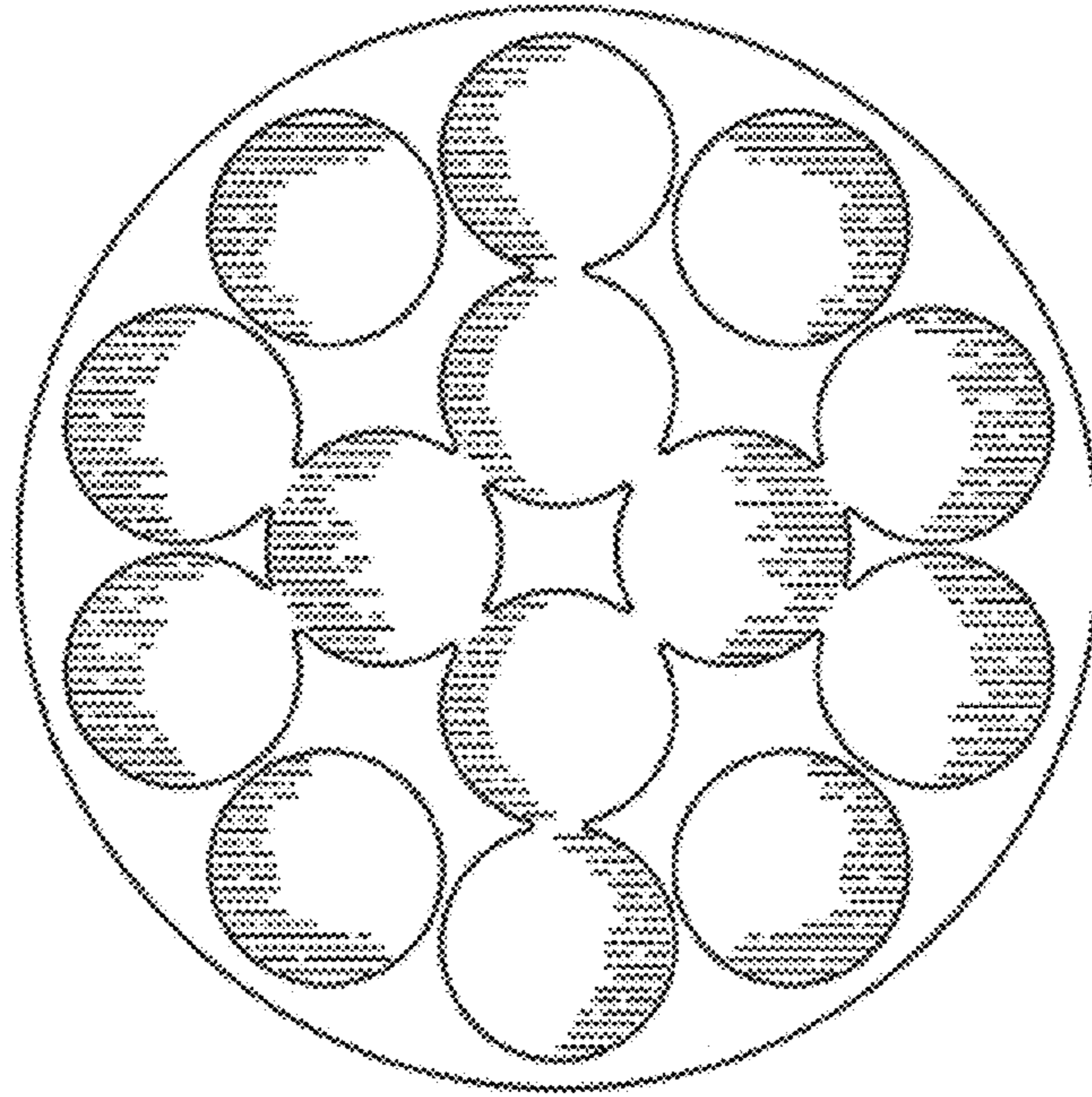


FIG. 12

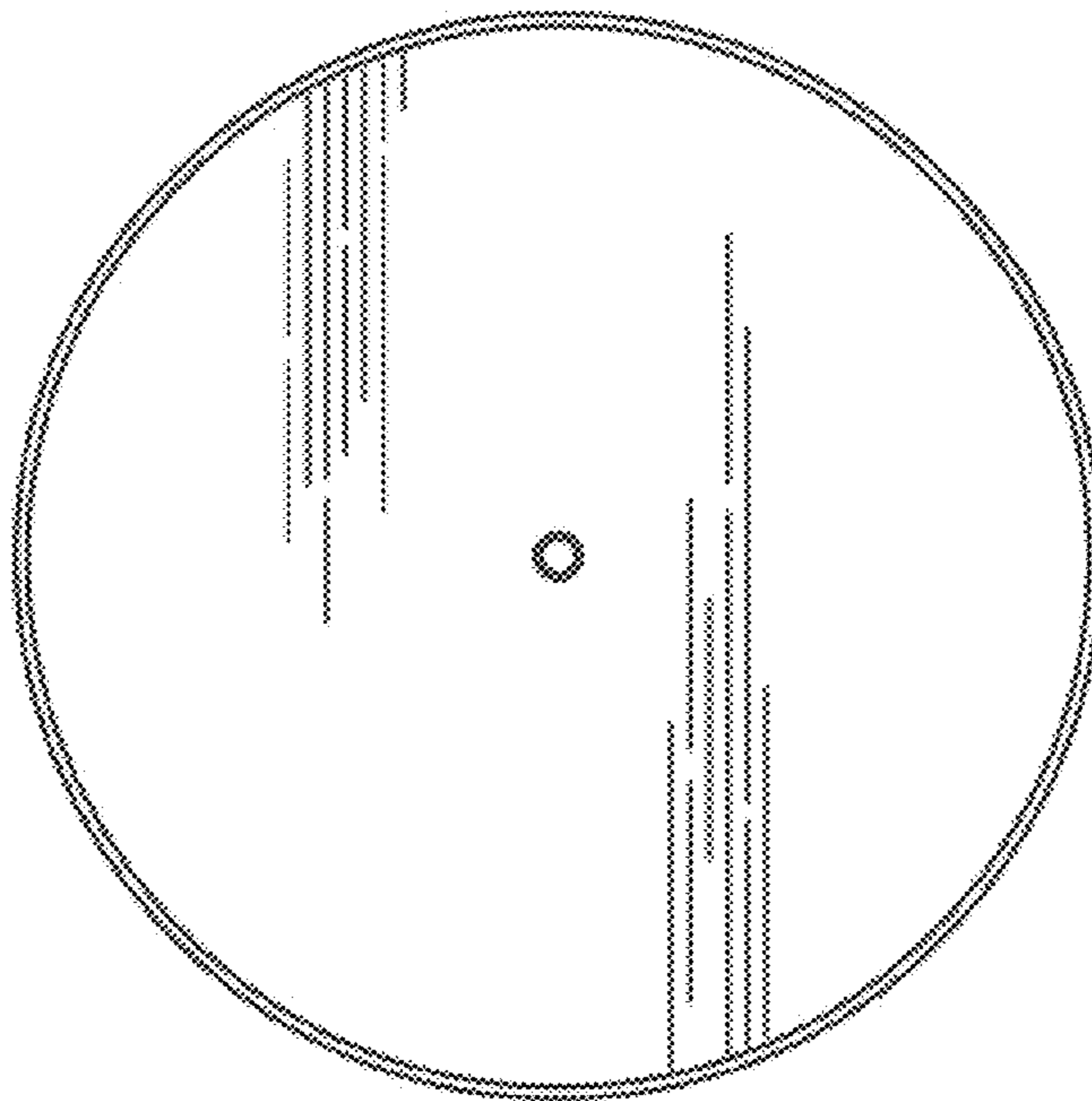


FIG. 13



FIG. 14

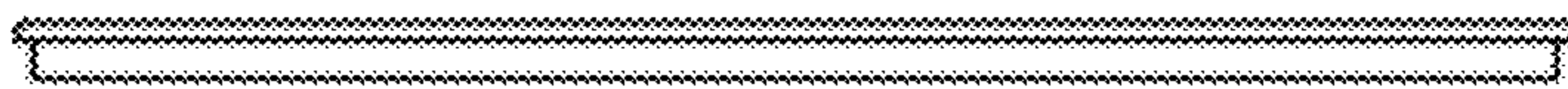


FIG. 15

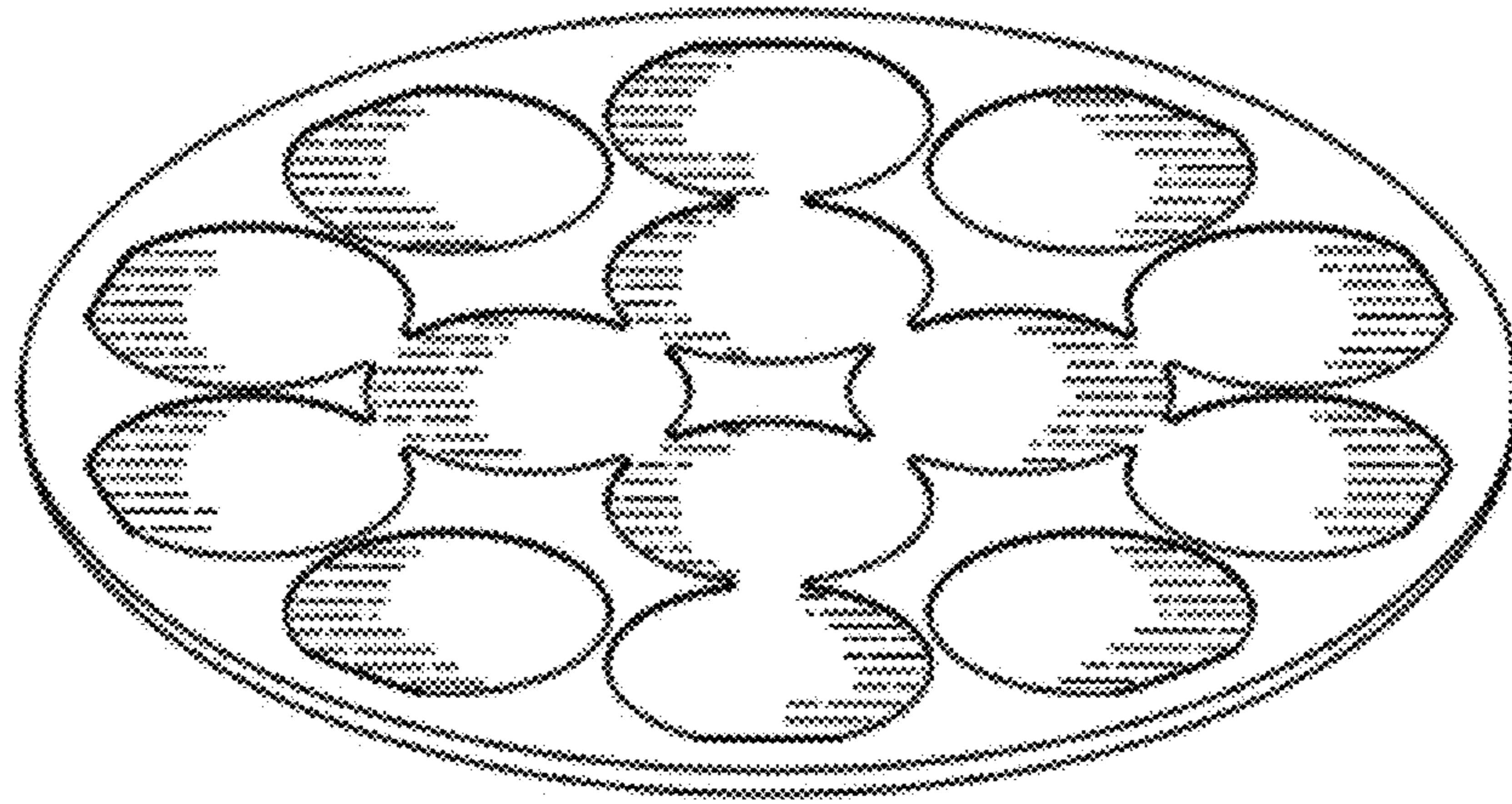


FIG. 16

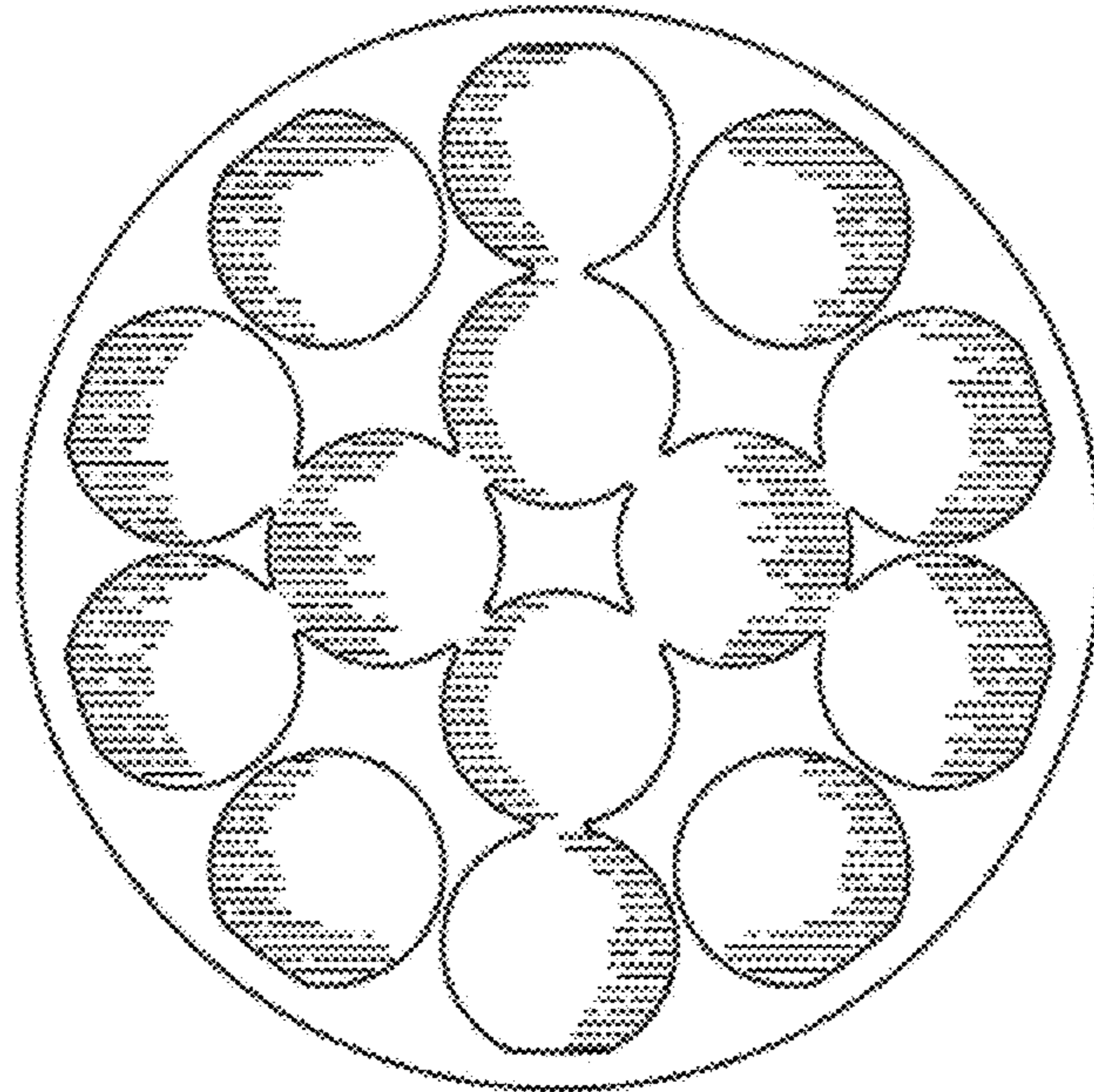


FIG. 17

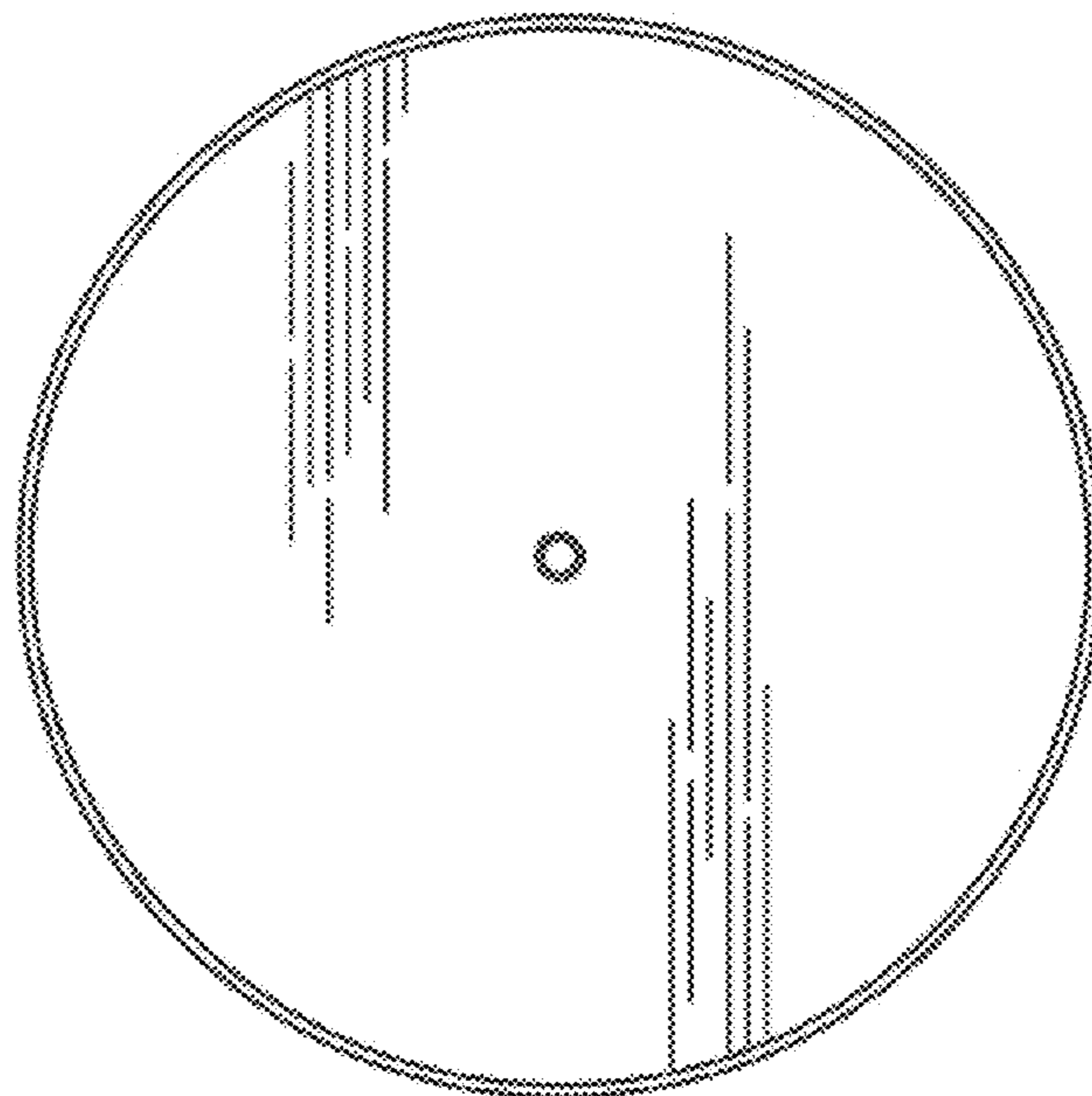


FIG. 18



FIG. 19

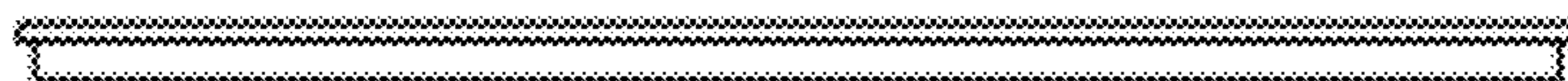


FIG. 20

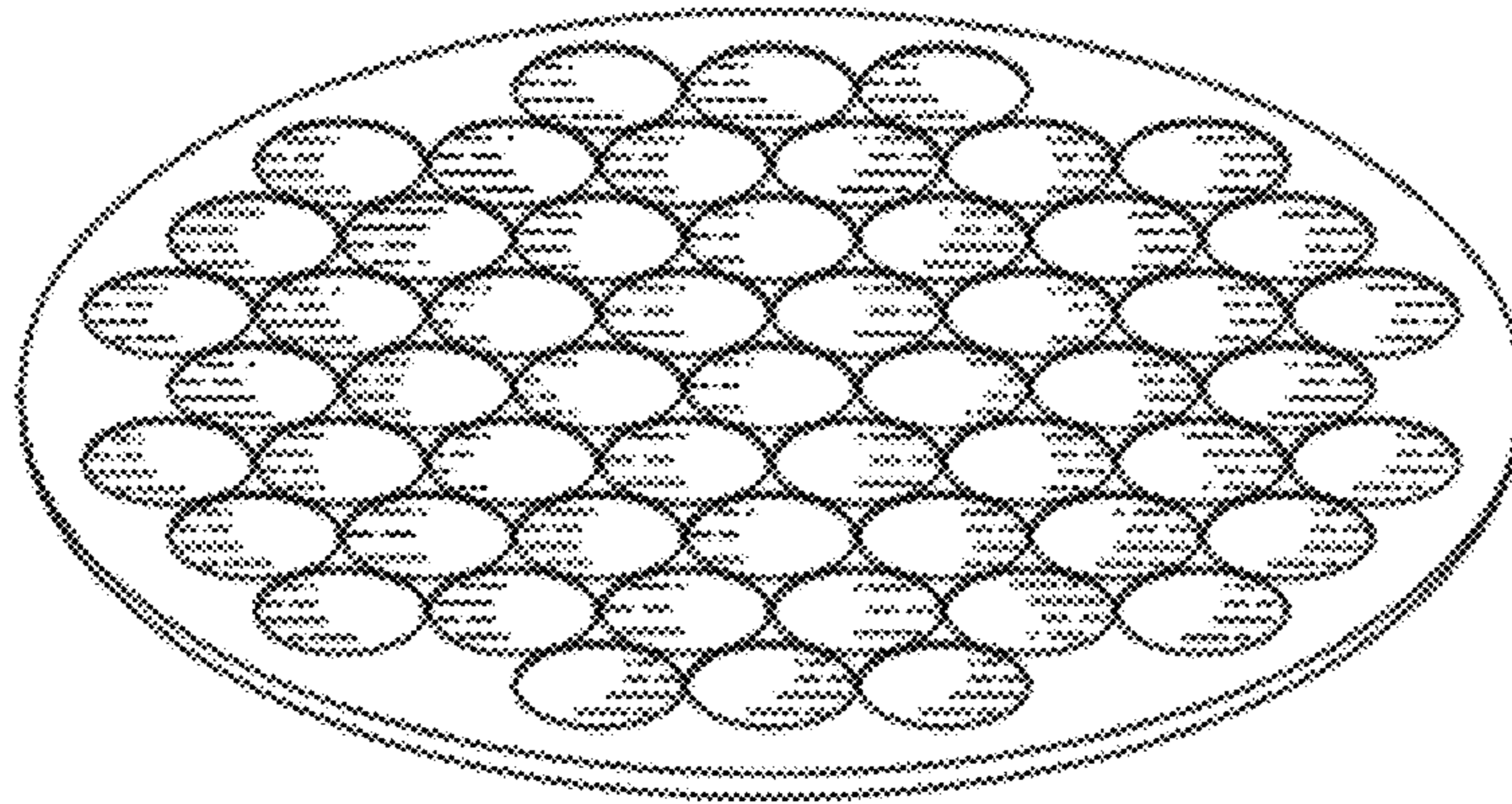


FIG.21

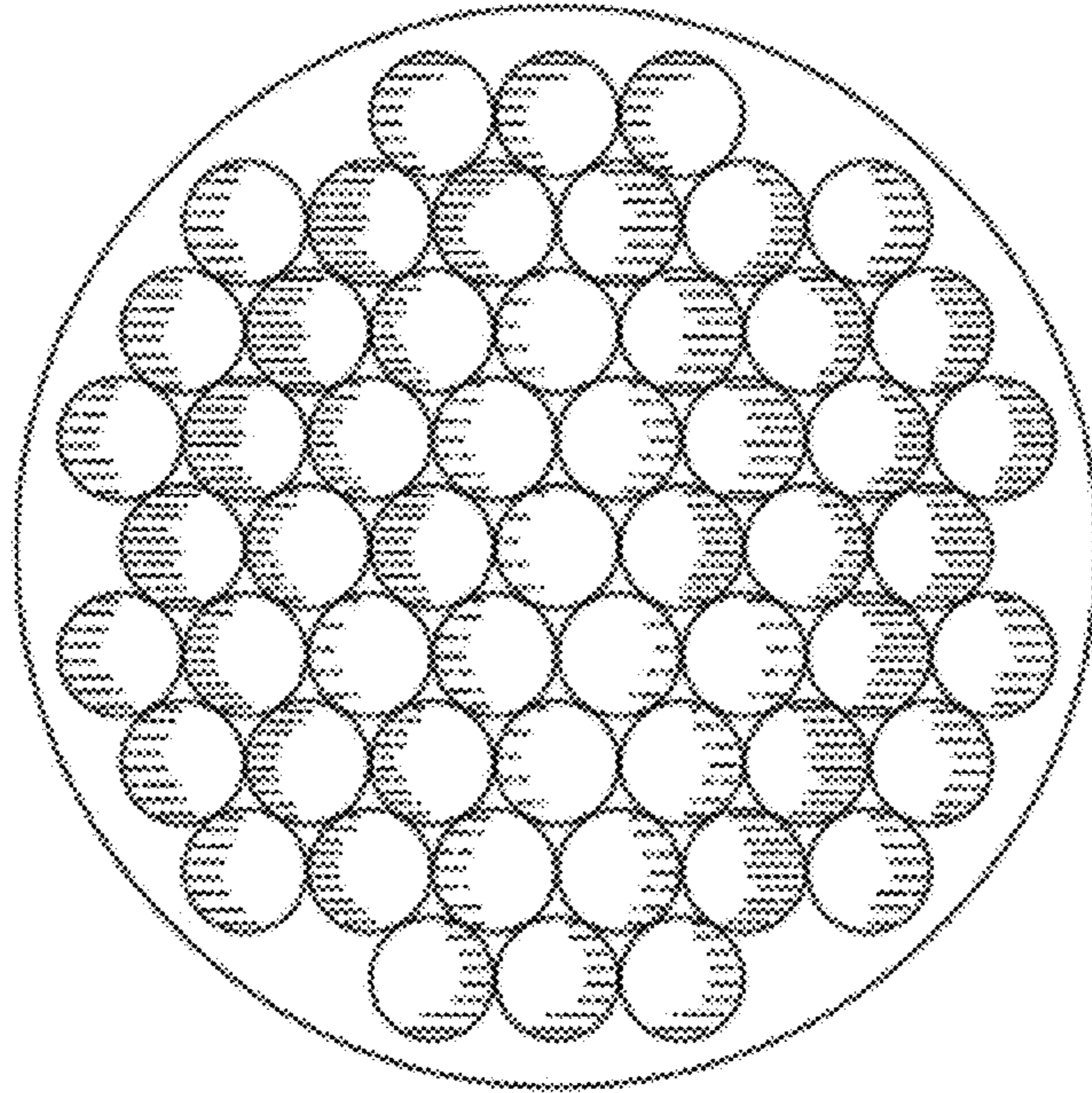


FIG. 22

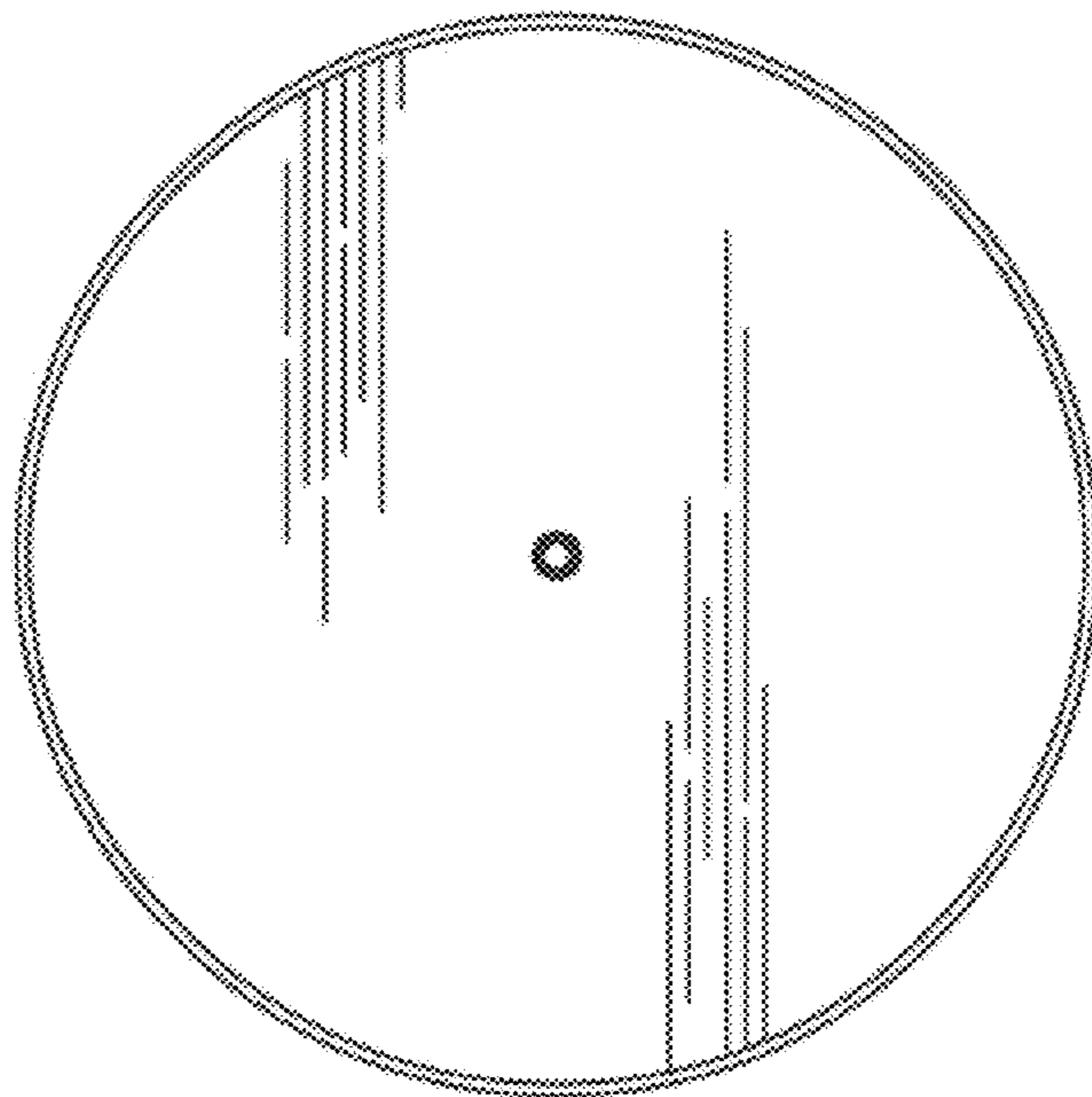


FIG. 23

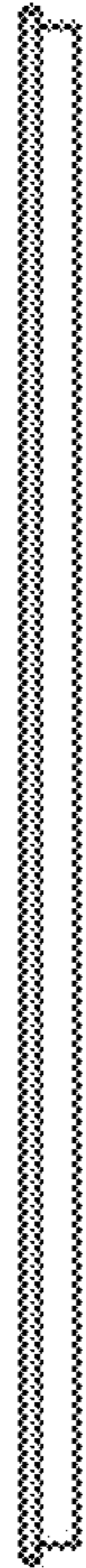


FIG.24

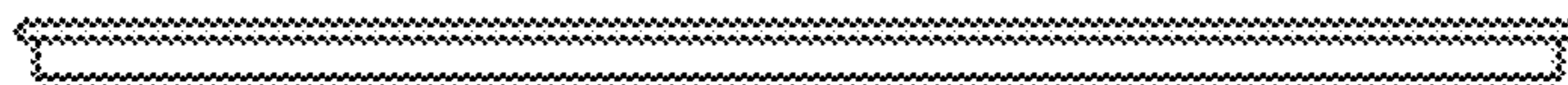


FIG.25

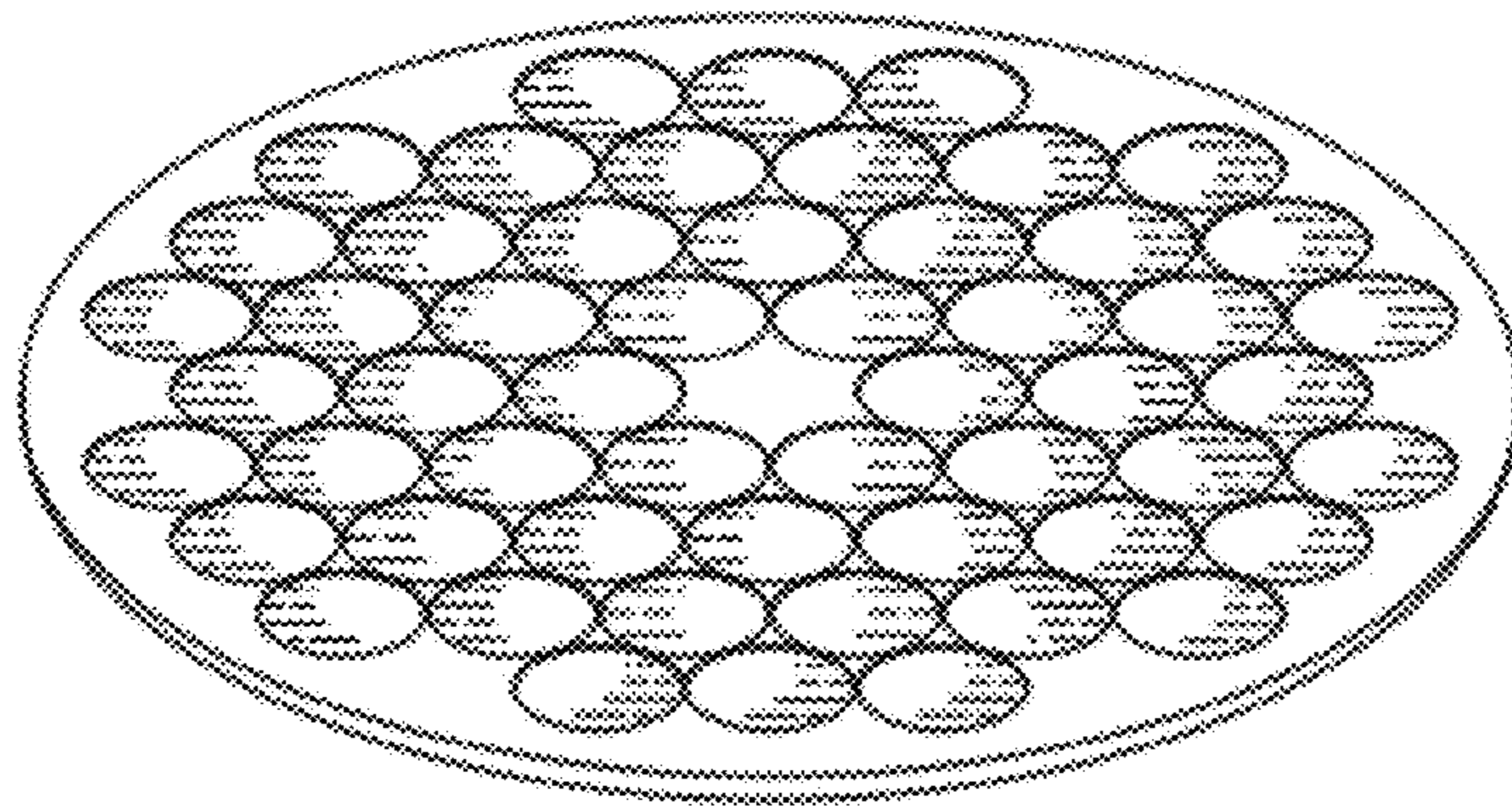


FIG. 26

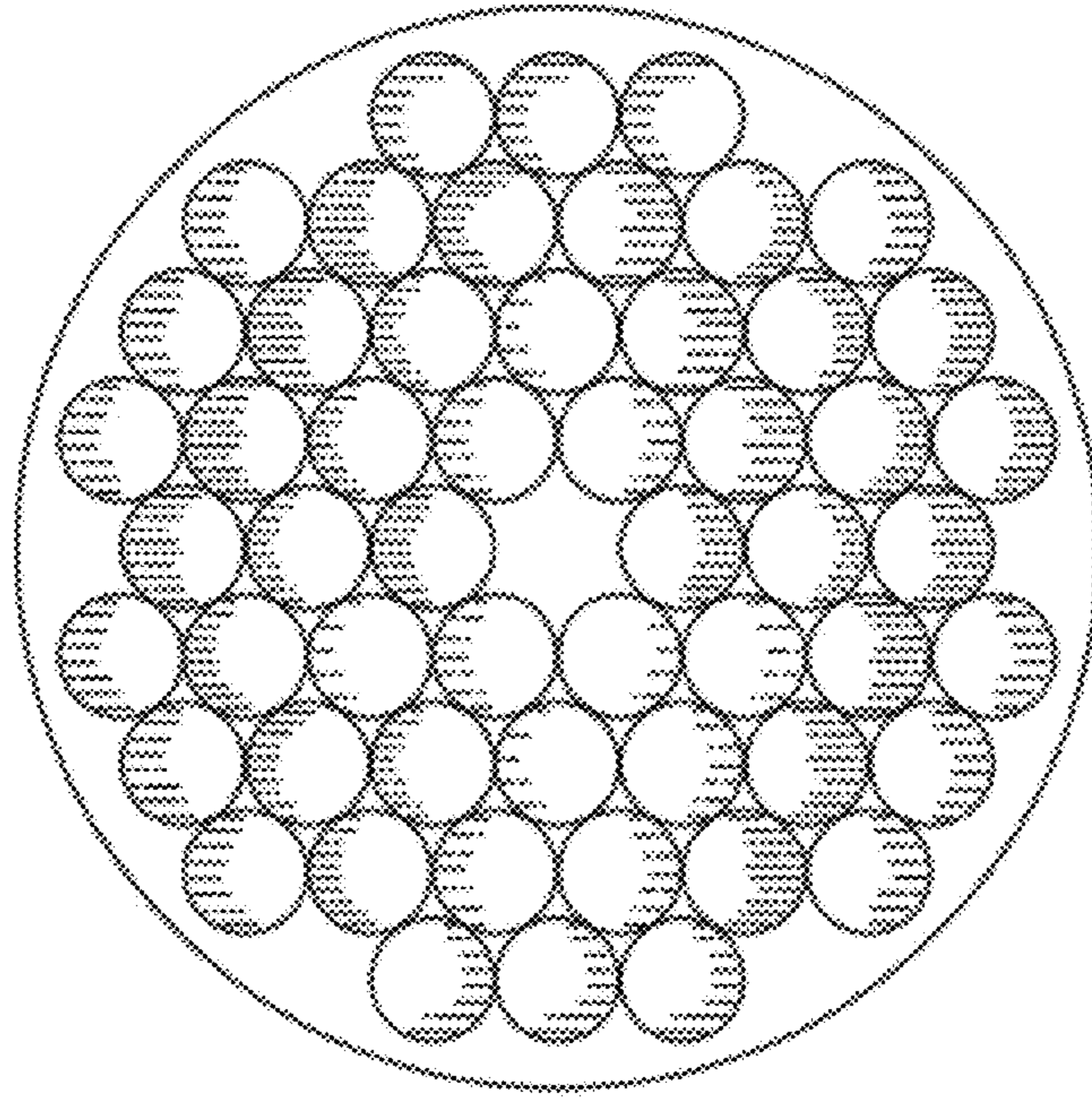


FIG. 27

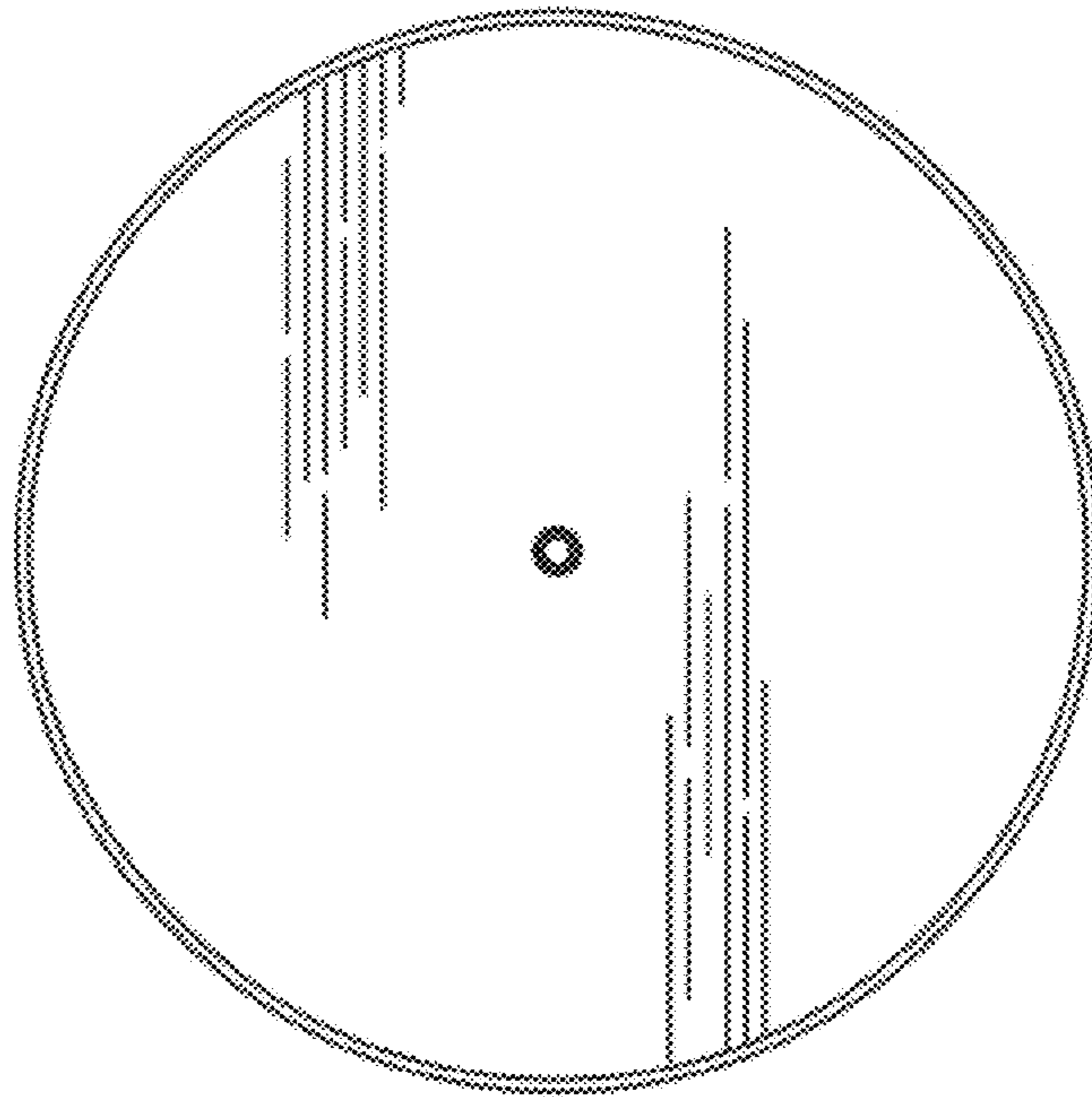


FIG. 28



FIG.29

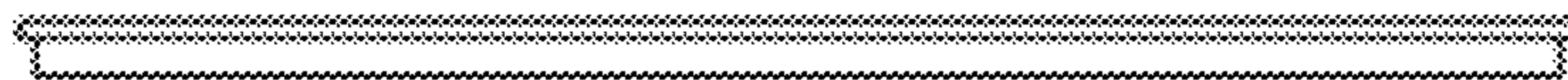


FIG.30