



US00D639497S

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

(10) **Patent No.:** **US D639,497 S**
(45) **Date of Patent:** **** Jun. 7, 2011**

(54) **LENS FOR LIGHT EMITTING DIODE**

(75) Inventors: **Kozo Ogawa**, Kanagawa (JP); **Toshiya Tanaka**, Kanagawa (JP); **Asuka Wada**, Kanagawa (JP); **Junichiro Yamamoto**, Kanagawa (JP)

(73) Assignees: **Toshiba Lighting & Technology Corporation**, Kanagawa (JP); **Kabushiki Kaisha Toshiba**, Tokyo (JP)

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

(21) Appl. No.: **29/377,971**

(22) Filed: **Oct. 28, 2010**

(30) **Foreign Application Priority Data**

May 19, 2010 (JP) 2010-012293

(51) **LOC (9) Cl.** **26-99**

(52) **U.S. Cl.** **D26/120**

(58) **Field of Classification Search** D26/154,
D26/1, 2, 120, 124, 63, 118, 85, 140, 155,
D26/122, 88, 90, 76, 75, 93, 113, 119, 128,
D26/145; 362/405, 147, 297, 285, 346, 349,
362/18, 122; D23/366; 345/163, 156, 158;
D14/402, 405, 408, 409; D8/354, 356, 373,
D8/349, 380; D13/179, 180; D11/89, 90,
D11/121

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D98,308 S * 1/1936 Floraday D26/36
2,878,425 A * 3/1959 Kudoh 315/284
D270,483 S * 9/1983 Gardner et al. D26/63
D286,446 S * 10/1986 Caroli et al. D26/123
D331,638 S * 12/1992 Vamberszky et al. D26/118
D343,019 S * 1/1994 Garrity D26/37
D392,407 S * 3/1998 Johnson et al. D26/67
D457,677 S * 5/2002 Landefeld et al. D26/67

D464,164 S * 10/2002 Thompson D26/89
D468,051 S * 12/2002 Gaskins et al. D26/123
6,509,840 B2 * 1/2003 Martineau 340/815.45
D482,484 S * 11/2003 Benghozi D26/85
D484,270 S * 12/2003 Yiu D26/89
6,979,107 B1 * 12/2005 Benensohn 362/374
D520,143 S * 5/2006 Yoneda D24/209
D550,391 S * 9/2007 Cesaro D26/89
D561,924 S * 2/2008 Yiu D26/72
D574,104 S * 7/2008 Sanoner D26/67
D578,231 S * 10/2008 Huang D26/28
7,553,044 B2 * 6/2009 Wedell 362/247
D598,583 S * 8/2009 Levine D26/25

(Continued)

FOREIGN PATENT DOCUMENTS

JP D0553327 2/1981

(Continued)

Primary Examiner — Cathron Brooks

Assistant Examiner — Kevin Rudzinski

(74) *Attorney, Agent, or Firm* — J.C. Patents

(57) **CLAIM**

The ornamental design for a lens for light emitting diode, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a lens for light emitting diode showing our new design;

FIG. 2 is a front view thereof;

FIG. 3 is a right side view thereof;

FIG. 4 is a top view thereof;

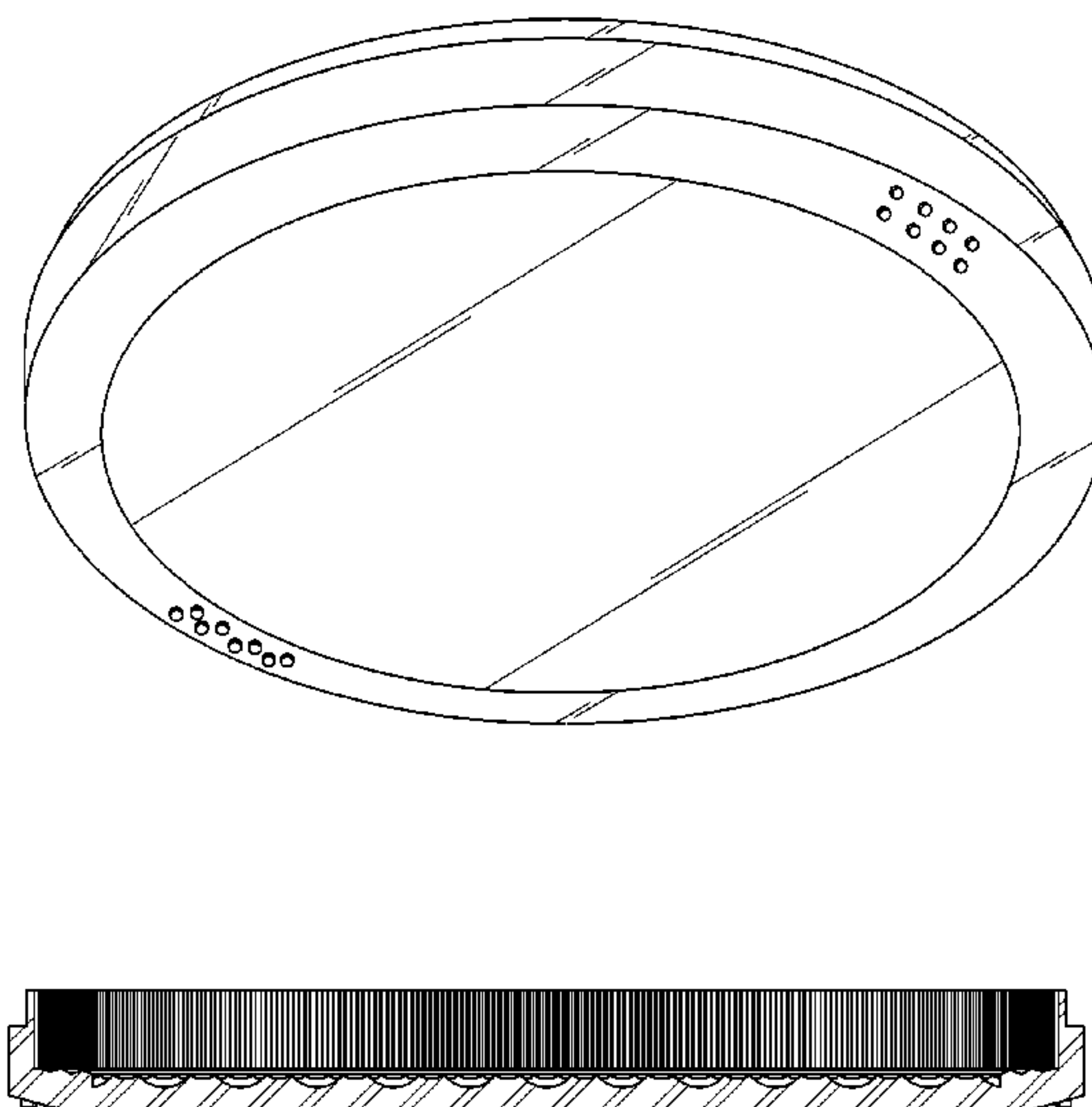
FIG. 5 is a bottom view thereof;

FIG. 6 is a partial expanded view defined by line B—B, C—C and D—D of FIG. 4 thereof; and,

FIG. 7 is a cross-sectional view taken along line 7—7 in FIG. 3.

A left side view and a rear view of the lens for light emitting diode are omitted since the left side view and the rear view are respectively identical to the right side view and the front view.

1 Claim, 6 Drawing Sheets



US D639,497 S

U.S. PATENT DOCUMENTS

D599,921	S	*	9/2009	Rivardo et al.	.....	D26/24
7,588,358	B1	*	9/2009	Condon	.....	362/522
D607,600	S	*	1/2010	Keith	.....	D26/85
D608,938	S	*	1/2010	Schmitt et al.	.....	D26/149
D614,321	S	*	4/2010	Yang	.....	D26/2
D616,129	S	*	5/2010	Sanoner	.....	D26/67
D618,848	S	*	6/2010	Campagna	.....	D26/124
D620,191	S	*	7/2010	Feigenbaum	.....	D26/142

2003/0151925	A1	*	8/2003	Crunk	.....	362/545
2004/0114363	A1	*	6/2004	Crunk	.....	362/222
2006/0176703	A1	*	8/2006	Cayton et al.	.....	362/350
2006/0250789	A1	*	11/2006	Coushaine	.....	362/157
2007/0121317	A1	*	5/2007	Huang et al.	.....	362/183

FOREIGN PATENT DOCUMENTS

JP	D0810734	12/1990
----	----------	---------

* cited by examiner

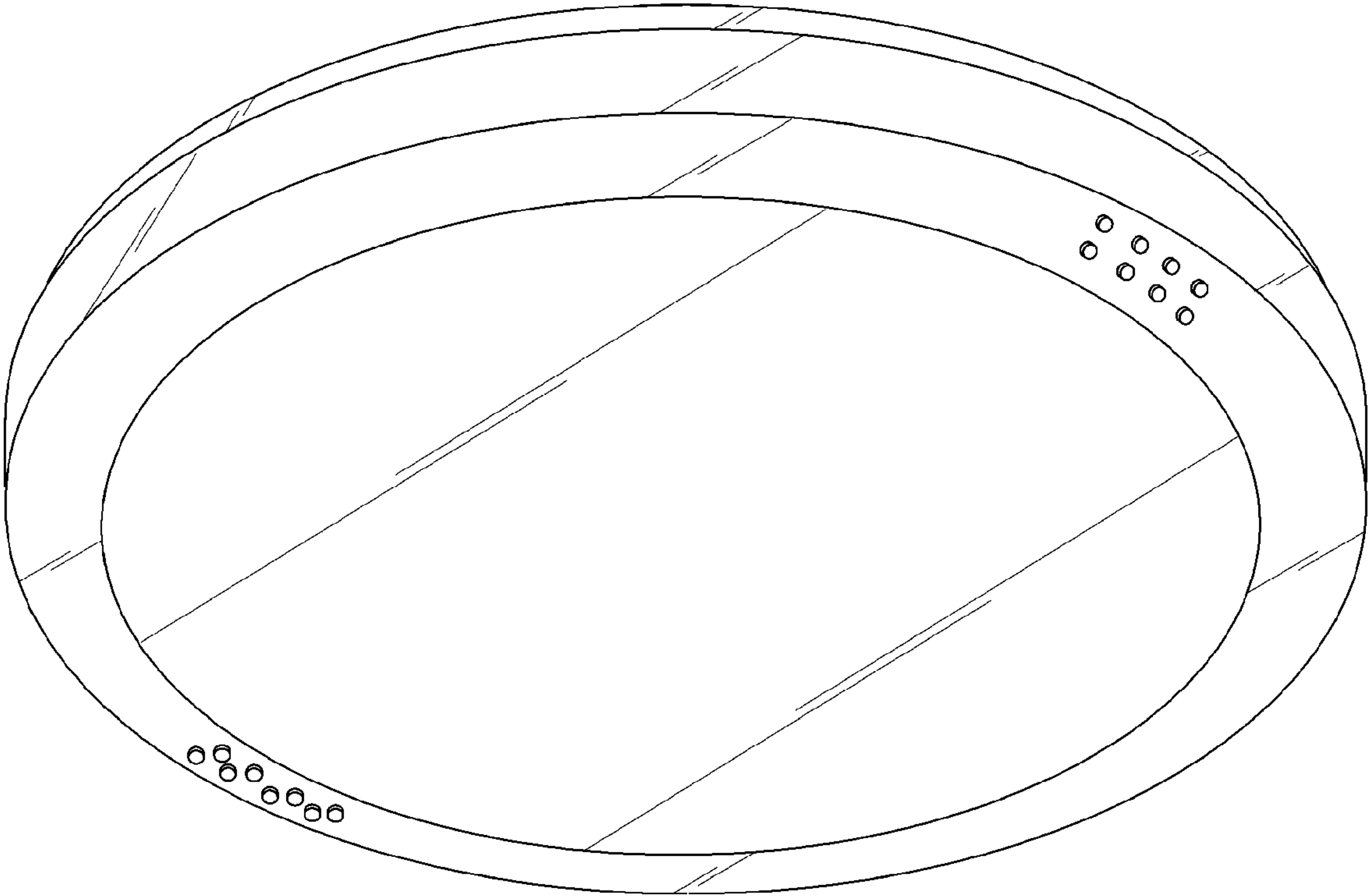


FIG. 1

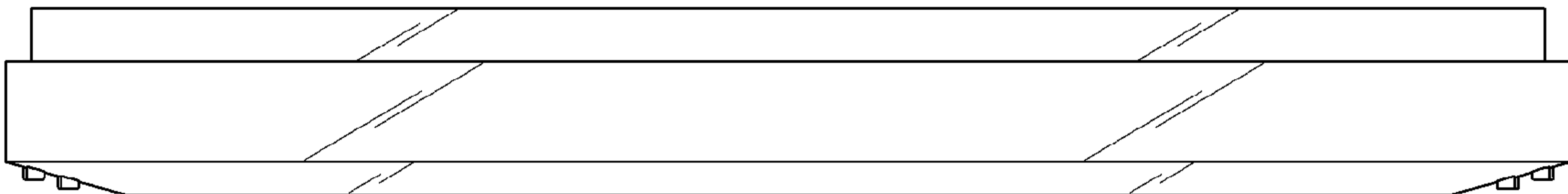


FIG. 2

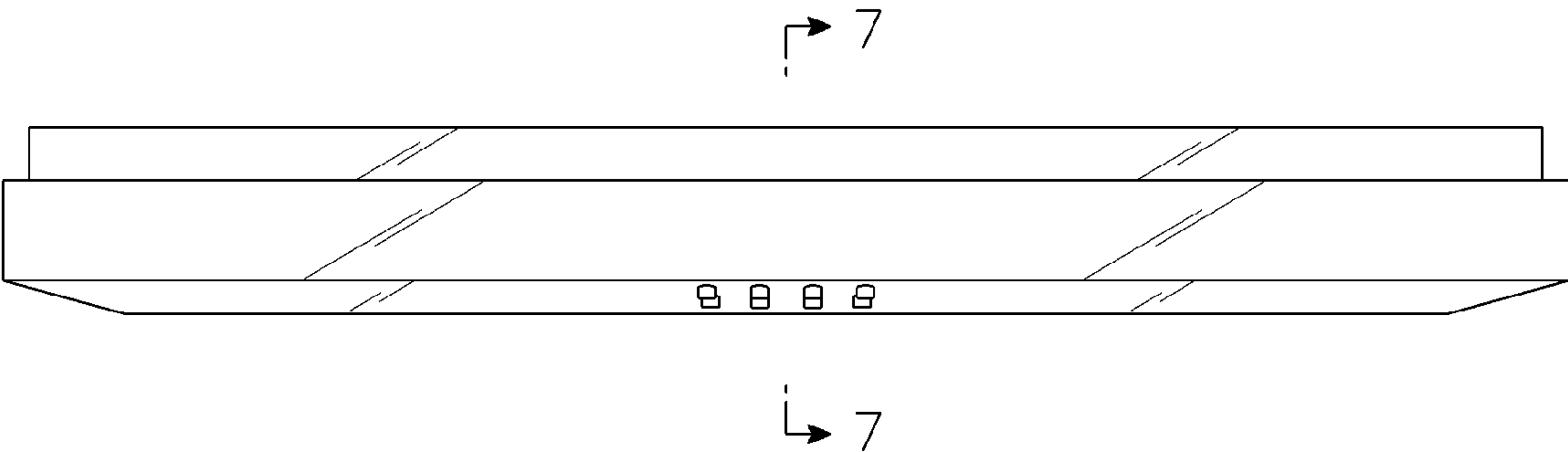


FIG. 3

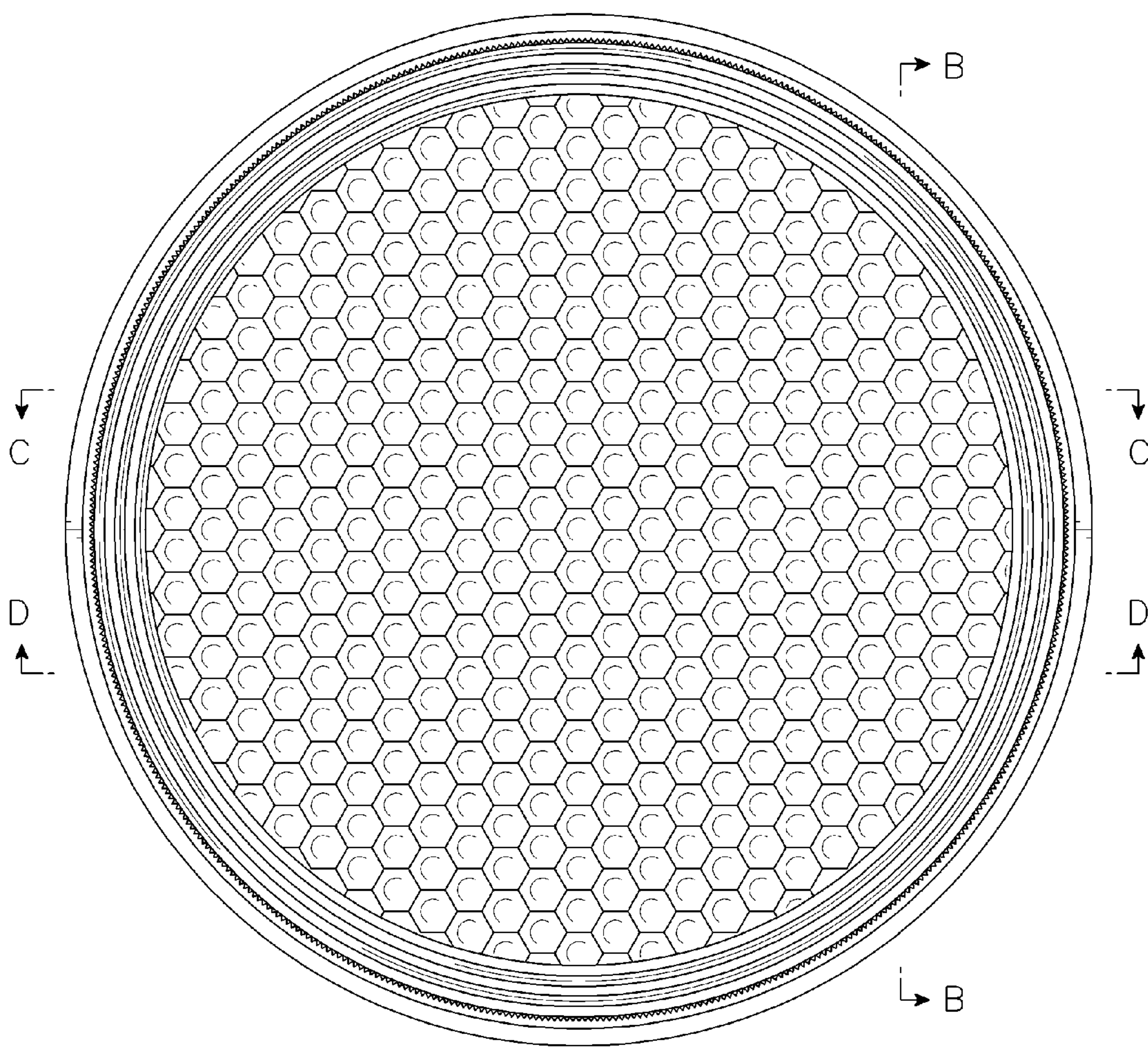


FIG. 4

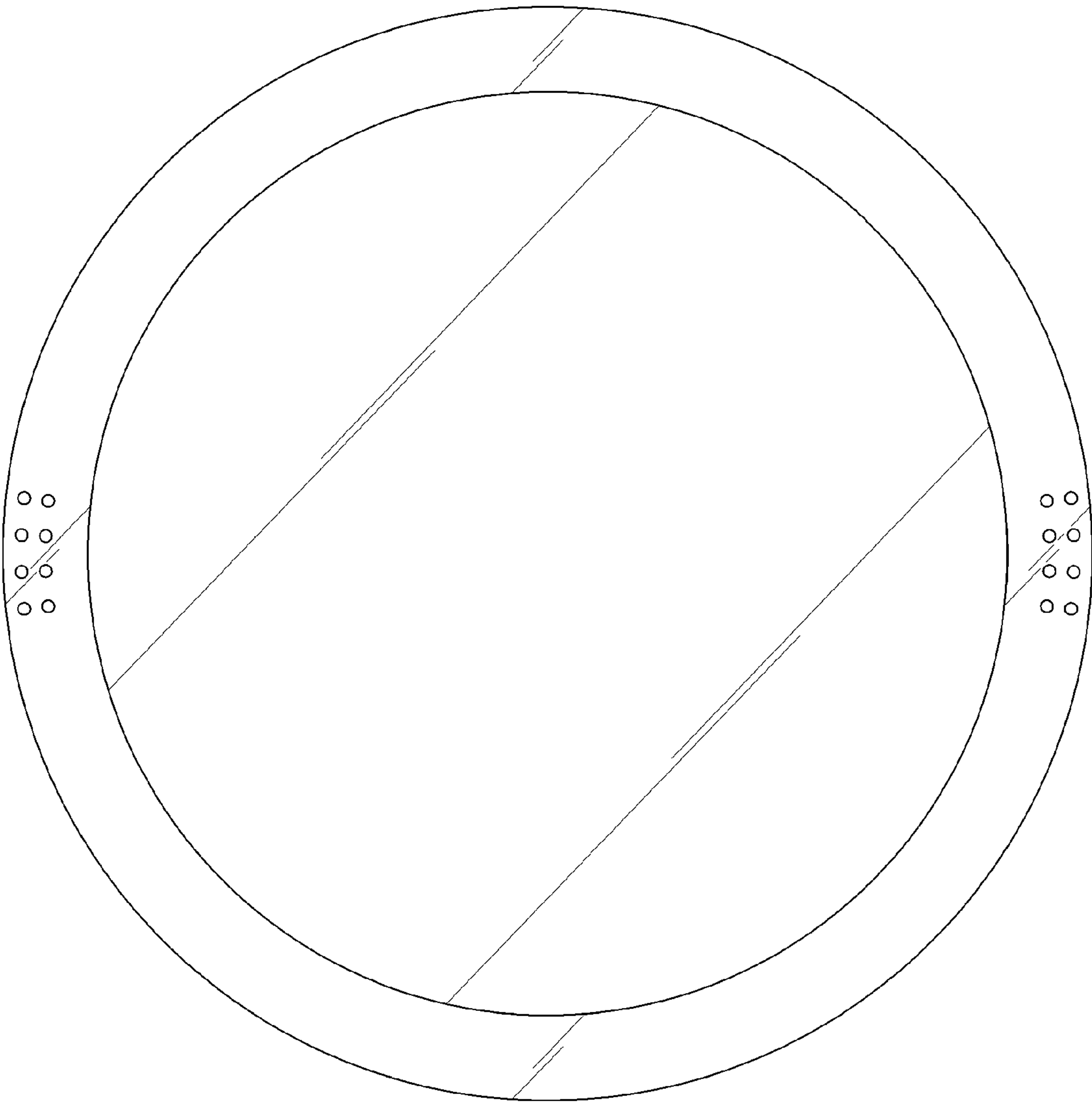


FIG. 5

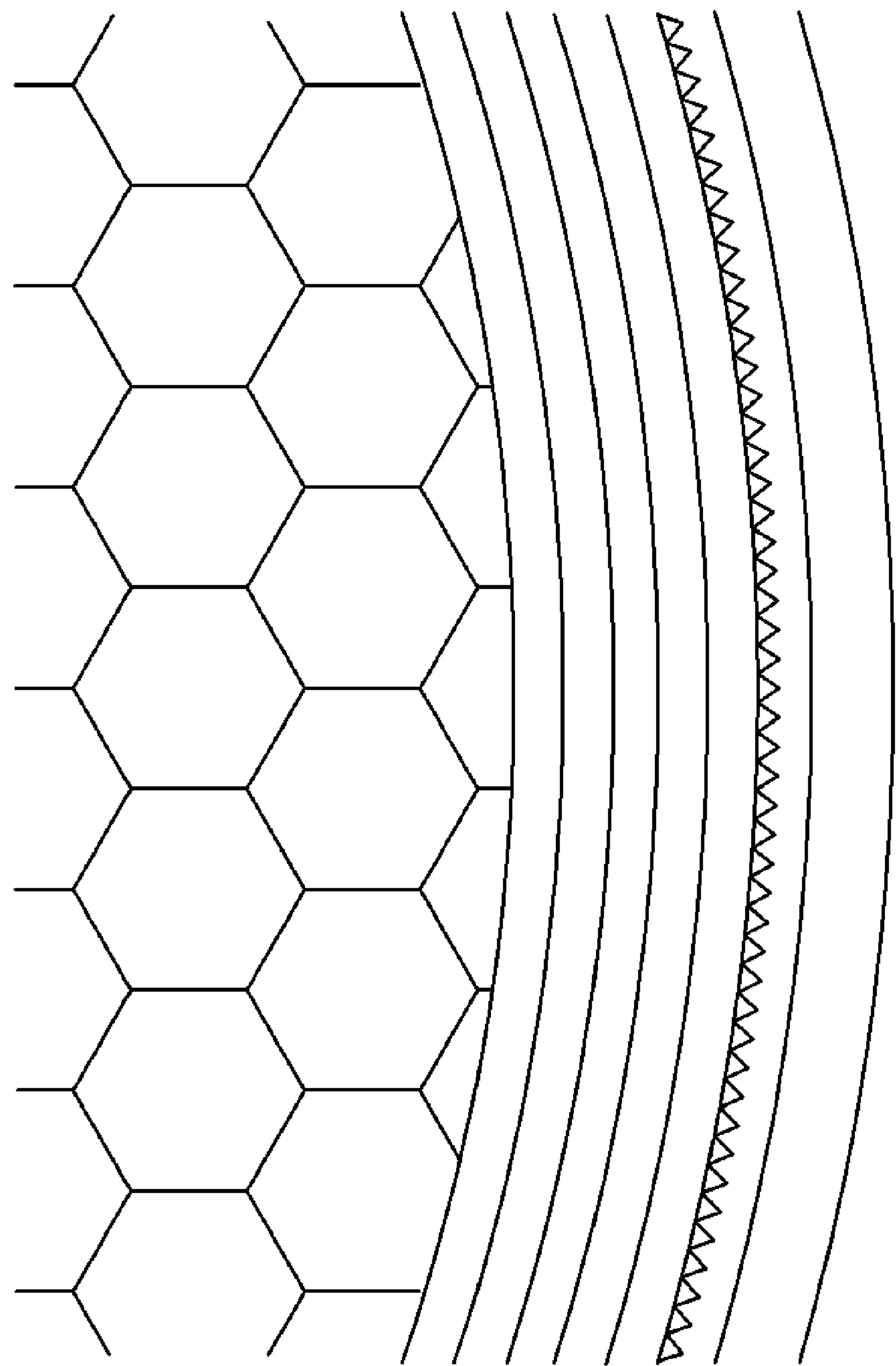


FIG. 6

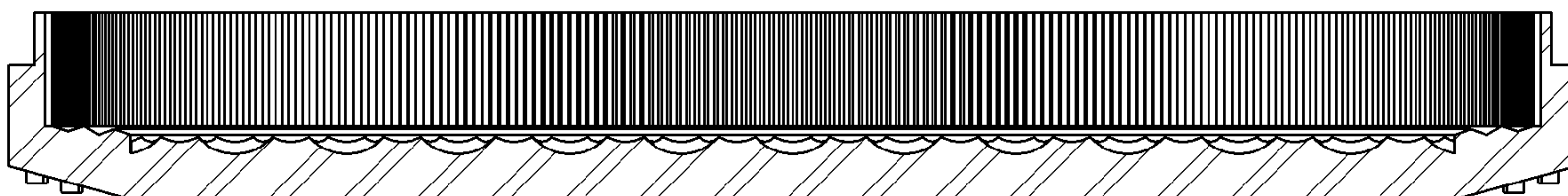


FIG. 7