



US00D628268S

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

(10) **Patent No.:** **US D628,268 S**

(45) **Date of Patent:** **** *Nov. 30, 2010**

(54) **SINTERING TRAY**

(75) Inventors: **Rainer K. Dittmann**, München (DE);
Anthony A. Bredebusch, Landsberg am
Lech (DE); **Christian A. Richter**,
Feldafing (DE); **Anja B. Fischer**,
Seefeld/Hechendorf (DE)

(73) Assignee: **3M Innovative Properties Company**,
St. Paul, MN (US)

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

(21) Appl. No.: **29/342,976**

(22) Filed: **Sep. 3, 2009**

(30) **Foreign Application Priority Data**

Mar. 3, 2009 (EM) 001097760-0005

(51) **LOC (9) Cl.** **23-01**

(52) **U.S. Cl.** **D23/209; D23/365; D23/499;**
D34/38

(58) **Field of Classification Search** D23/207,
D23/209, 365, 499; 428/408, 688, 698;
55/499; D34/38; D7/388; 108/51.11; 264/605
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D221,745 S *	9/1971	Holdredge	.....	D34/38
4,184,840 A	1/1980	Gamberg et al.		
D256,273 S *	8/1980	Townsend et al.	.....	D23/336
4,348,176 A	9/1982	Gamble et al.		
D307,462 S *	4/1990	Merkouris	.....	D23/209
4,925,561 A *	5/1990	Ishii et al.	.....	210/493.3
5,993,970 A	11/1999	Oscarsson et al.		
D476,725 S *	7/2003	Dushek et al.	.....	D23/365
6,709,694 B1	3/2004	Suttor et al.		
6,756,421 B1	6/2004	Todo et al.		
D544,949 S *	6/2007	Winters et al.	.....	D23/365
D571,608 S *	6/2008	Yeung	.....	D7/388
7,624,688 B2 *	12/2009	Kulbeth et al.	.....	108/51.11
2002/0184922 A1	12/2002	Dick et al.		

2006/0018780 A1	1/2006	Hosamani et al.
2006/0082033 A1	4/2006	Hauptmann et al.
2006/0117989 A1	6/2006	Hauptmann et al.
2008/0199823 A1	8/2008	Miller
2008/0286718 A1	11/2008	Franke et al.

FOREIGN PATENT DOCUMENTS

DE	10052203 A1	4/2001
JP	3-296006	12/1991
SU	1699982 A1	12/1991
WO	97/07078	2/1997
WO	2008/098157 A1	8/2008

OTHER PUBLICATIONS

U.S. Appl. No. 29/342,964, published Sep. 3, 2009, Dittmann et al.

(Continued)

Primary Examiner—Robin V Webster
(74) *Attorney, Agent, or Firm*—Pamela L. Stewart

(57) **CLAIM**

The ornamental design for a sintering tray, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view showing the new design for a sintering tray;

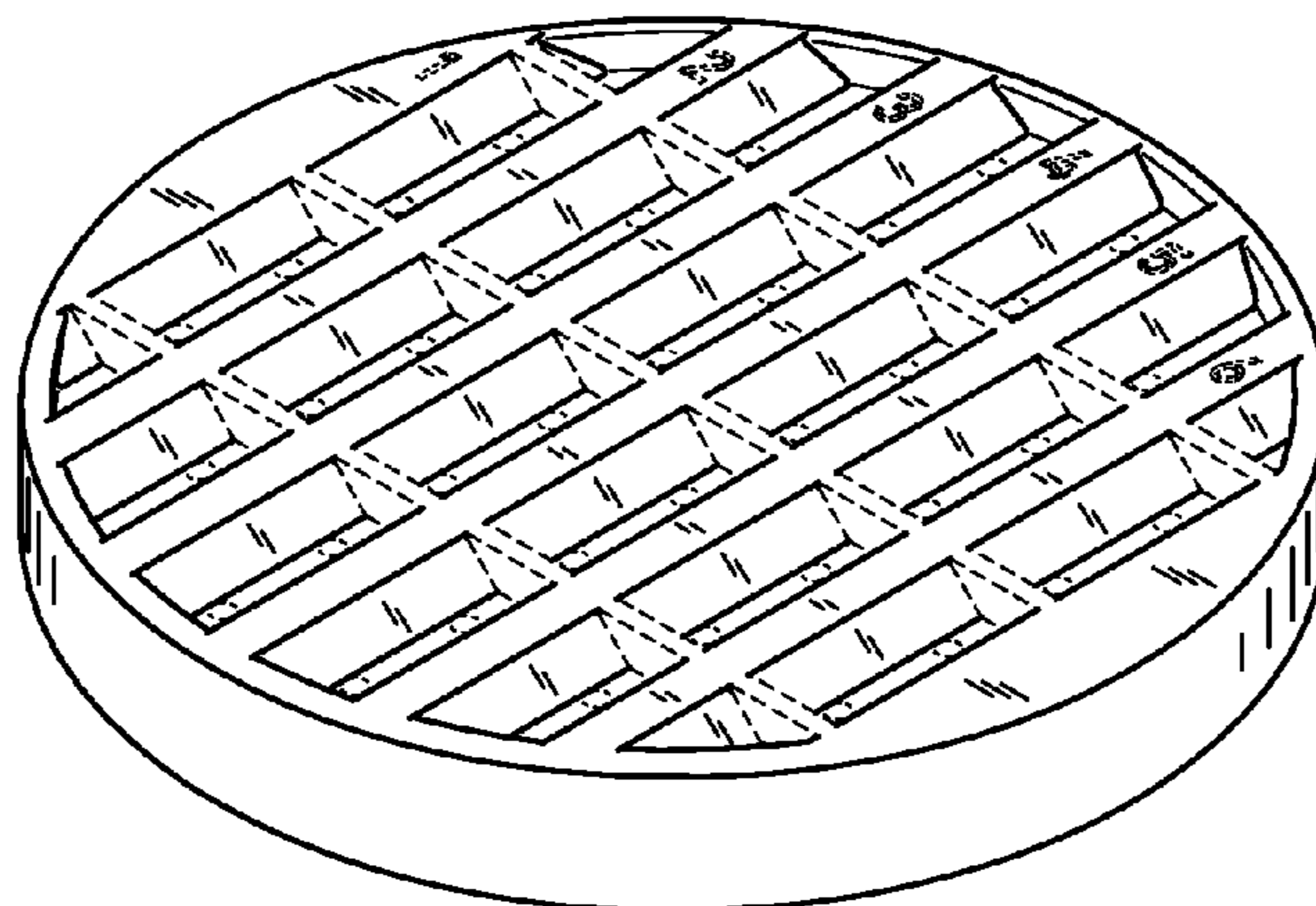
FIG. 2 is a top plan view thereof;

FIG. 3 is a bottom plan view thereof; and,

FIG. 4 is a front side view thereof.

The broken lines are included for the purpose of illustrating the environment only and form no part of the claimed design.

1 Claim, 2 Drawing Sheets



OTHER PUBLICATIONS

U.S. Appl. No. 29/342,968, published Sep. 3, 2009, Dittmann et al.
U.S. Appl. No. 29/342,969, published Sep. 3, 2009, Dittmann et al.
U.S. Appl. No. 29/342,971, published Sep. 3, 2009, Dittmann et al.
U.S. Appl. No. 29/342,979, published Sep. 3, 2009, Dittmann et al.
International Search Report dated May 13, 2010, for PCT/US2010/
26745, 3 pages.
“Lava 200™ Furnace 200, Faster sintering made easy”, 3M ESPE, St.
Paul, MN, USA [on line], retrieved from the internet prior to Mar. 12,
2009. URL <http://solutions.3m.com/wps/portal/3M/en_US/3M-ESPE/dental-professionals/products/category/cad-cam/lava-furnace-200/>, pp. 12.

“Fabrication of Kiln Furniture with Variable Geometry Especially for
Technical Ceramics”, Kollenberg, Wolfgang and Nikolay, Dieter;
Werkstoffzentrum Rheinbach GmbH, Lise-Meitner-Straße 1, 53359
Rheinbach, [on line], retrieved from the internet prior to Mar. 12,
2009. URL <<http://www.werkstoffzentrum.de>>, pp. 5.

“Realisierung Keramischer Prototyping mittels 3D-Druck und
Heißgießen”, Kindtner et al., Werkstoffzentrum Rheinbach GmbH,
Lise-Meitner-Str. 1, 53359 Rheinbach [on line]. retrieved from the
internet prior to Mar. 12, 2009. URL <http://www.werkstoffzentrum.de>, pp. 9.

* cited by examiner

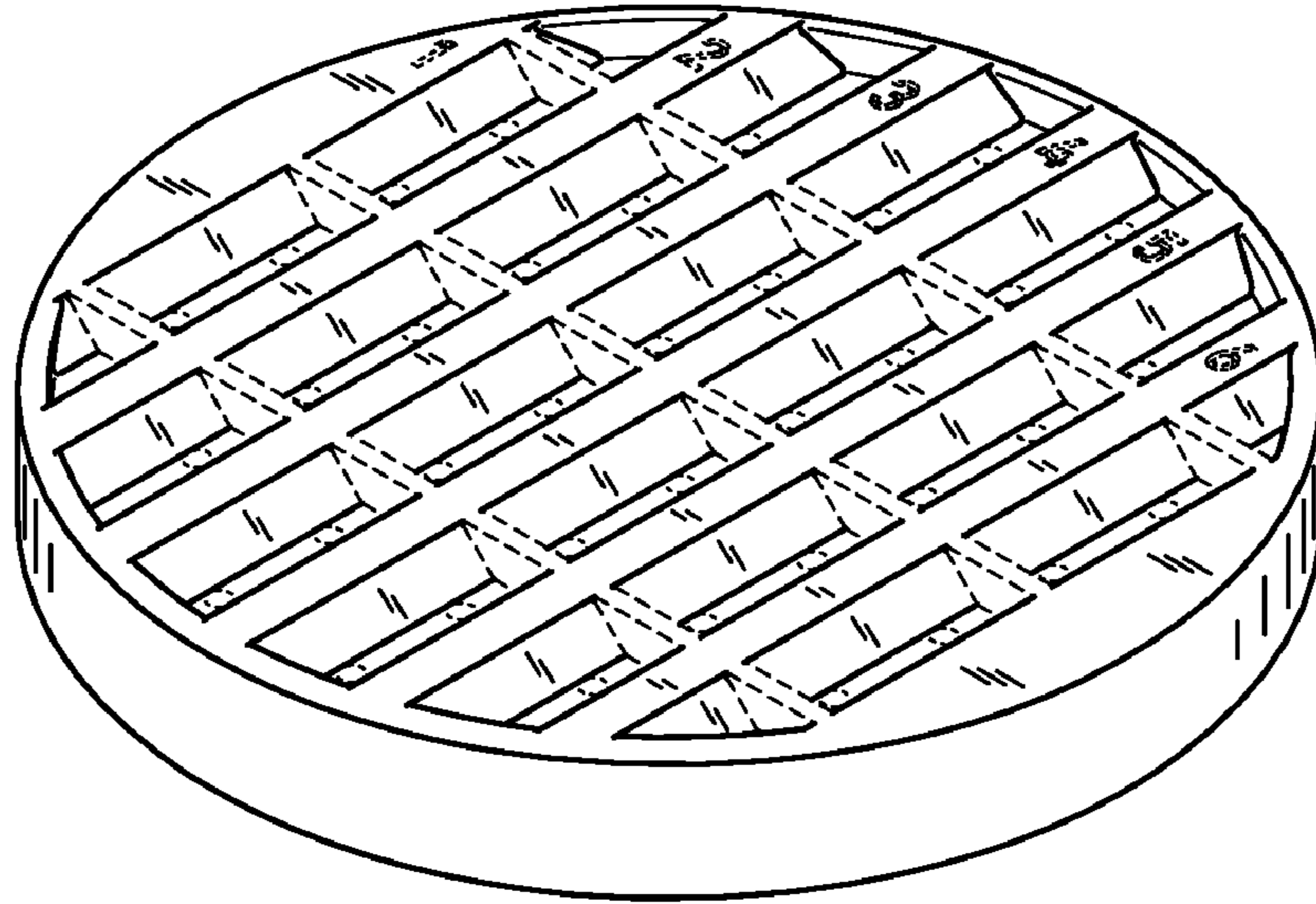


FIG. 1

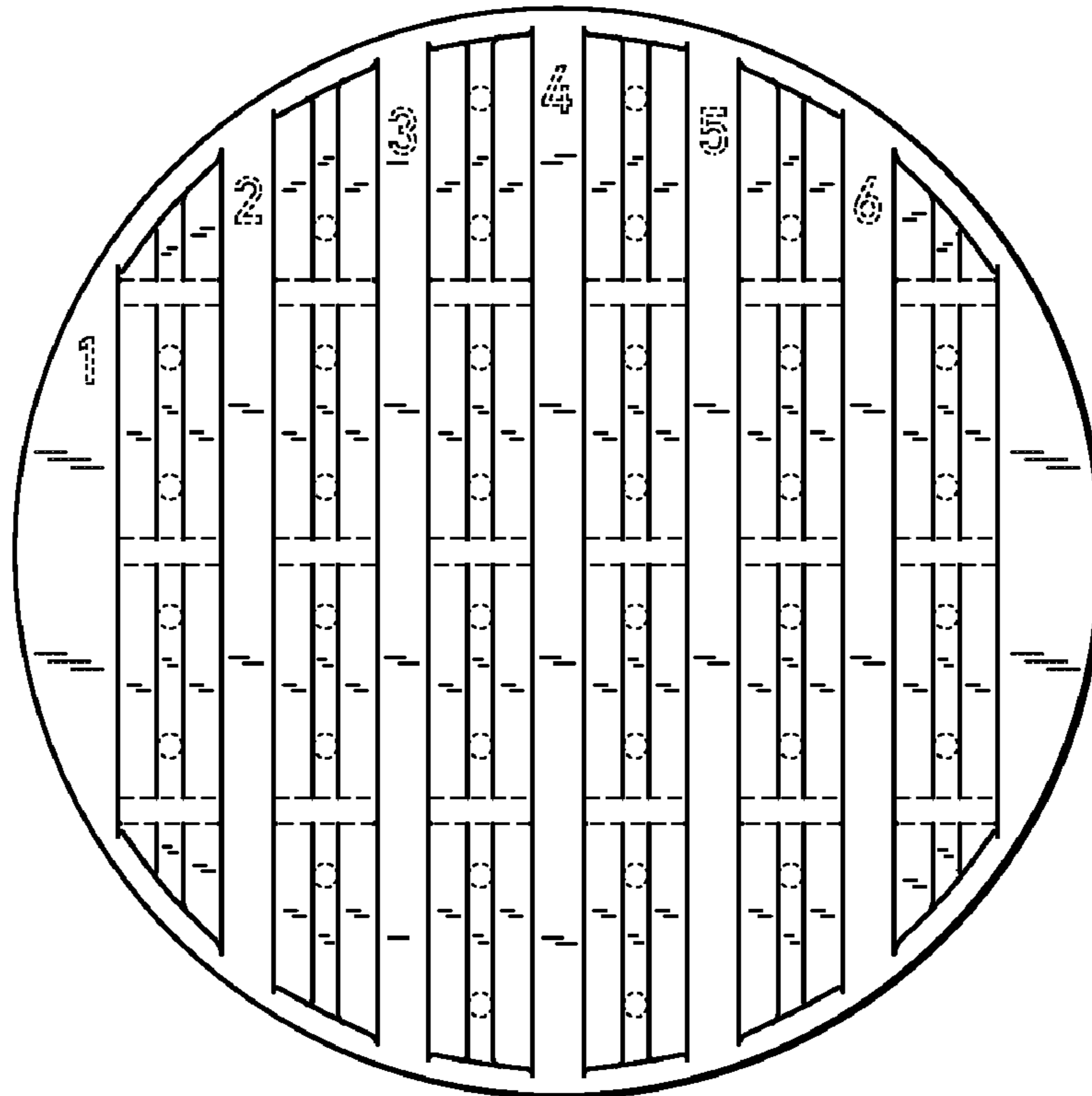


FIG. 2

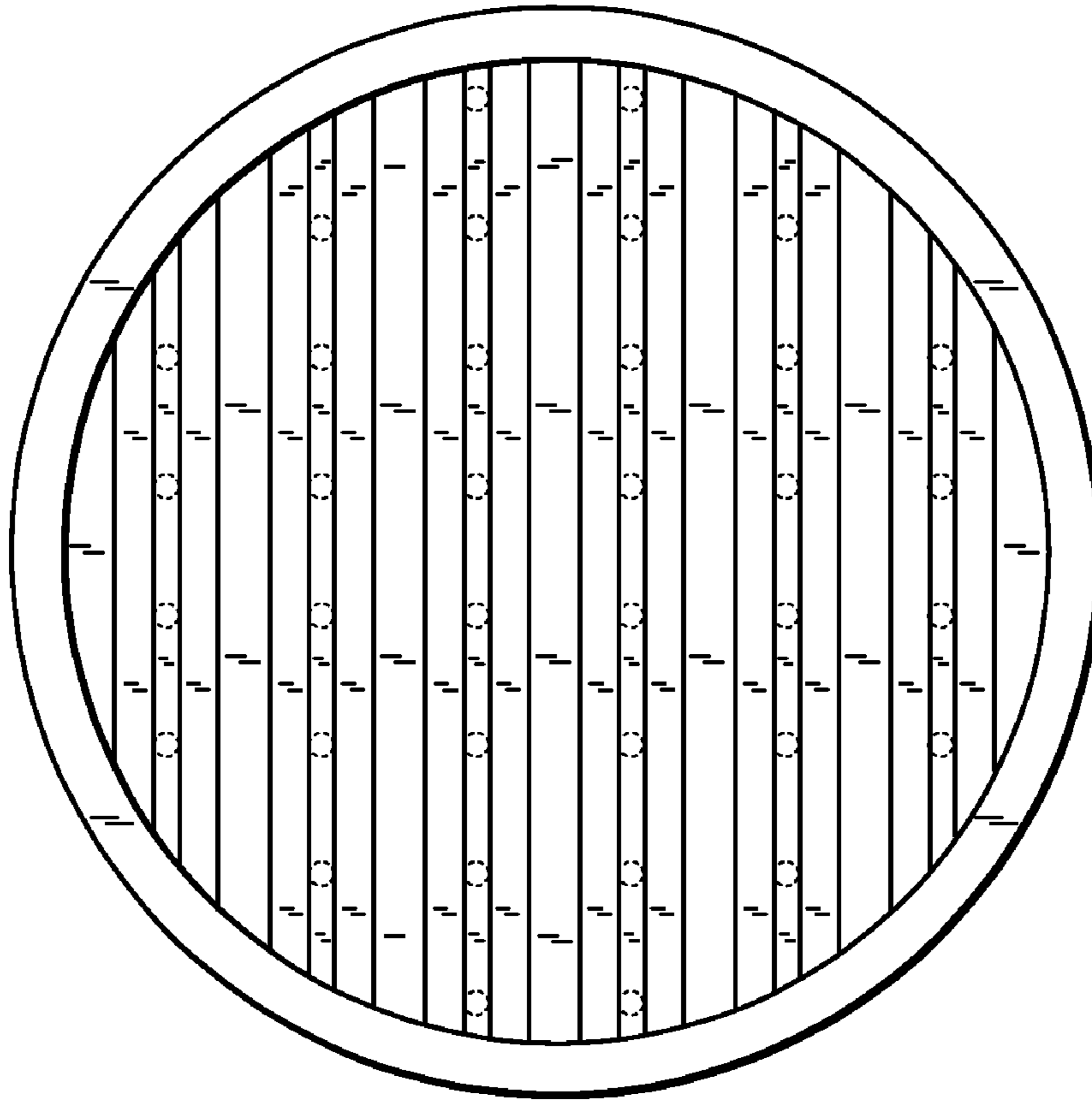


FIG. 3



FIG. 4