



US00D890326S

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

(10) **Patent No.:** **US D890,326 S**

(45) **Date of Patent:** **\*\* Jul. 14, 2020**

(54) **FURNACE VENT HUMIDIFIER**

(71) Applicant: **CAD Precision Inc.**, Kitchener (CA)

(72) Inventor: **Thai Duc Pham**, Kitchener (CA)

(73) Assignee: **CAD Precision Inc.**, Kitchener (CA)

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/683,404**

(22) Filed: **Mar. 13, 2019**

(51) **LOC (12) Cl.** ..... **23-03**

(52) **U.S. Cl.**  
USPC ..... **D23/393**

(58) **Field of Classification Search**  
USPC ..... D23/393, 371, 386, 388, 405, 370, 381,  
D23/394; 454/292, 290, 284, 329, 289,  
454/325, 331; D26/77

(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2,995,079 A \* 8/1961 La Fontaine ..... F24F 13/12  
454/292  
D315,790 S \* 3/1991 Koessler ..... D23/388

(Continued)

**FOREIGN PATENT DOCUMENTS**

CN 303903404 \* 7/2016  
KR 300959396.0000 \* 9/2017

**OTHER PUBLICATIONS**

Decor Grates AJH410-NKL Floor Register, announced Date Mar. 12, 2012[online], [site visited May 4, 2020]. Available from internet, URL:<<https://www.amazon.com/Decor-Grates-AJH410-NKL-Oriental-Register/dp/B007EMTP4O>> (Year: 2012).\*

(Continued)

*Primary Examiner* — Barbara Fox  
*Assistant Examiner* — Jamaal Rasheed

(74) *Attorney, Agent, or Firm* — Brunet & Co. Ltd.;  
Robert Brunet; Hans Koenig

(57) **CLAIM**

I claim the ornamental design for a furnace vent humidifier, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of the furnace vent humidifier; FIG. 2 is an alternative perspective view of the furnace vent humidifier of FIG. 1;

FIG. 3 is a side view of the furnace vent humidifier of FIG. 1;

FIG. 4 is an opposite side view of the furnace vent humidifier of FIG. 1;

FIG. 5 is an end view of the furnace vent humidifier of FIG. 1;

FIG. 6 is an opposite view of the furnace vent humidifier of FIG. 1;

FIG. 7 is a top view of the furnace vent humidifier of FIG. 1;

FIG. 8 is a bottom view of the furnace vent humidifier of FIG. 1;

FIG. 9 is an exploded view of the furnace vent humidifier of FIG. 1;

FIG. 10 is a perspective view of the cover of the furnace vent humidifier of FIG. 1, shown separately to show aspects of the design that are not visible when combined;

FIG. 11 is an alternative perspective view of the cover of FIG. 10.

FIG. 12 is a side view of the cover of FIG. 10;

FIG. 13 is an opposite view of the cover of FIG. 10;

FIG. 14 is an end view of the cover of FIG. 10;

FIG. 15 is an opposite end view of the cover of FIG. 10;

FIG. 16 is top view of the cover of FIG. 10;

FIG. 17 is a bottom view of the cover of FIG. 10;

FIG. 18 is a perspective view of the basin of the furnace vent humidifier of FIG. 1, shown separately to show aspects of the design that are not visible when combined;

FIG. 19 is an alternative perspective view of the basin of FIG. 18;

FIG. 20 is a side view of the basin of FIG. 18;

FIG. 21 is an opposite side view of the basin of FIG. 18;

(Continued)

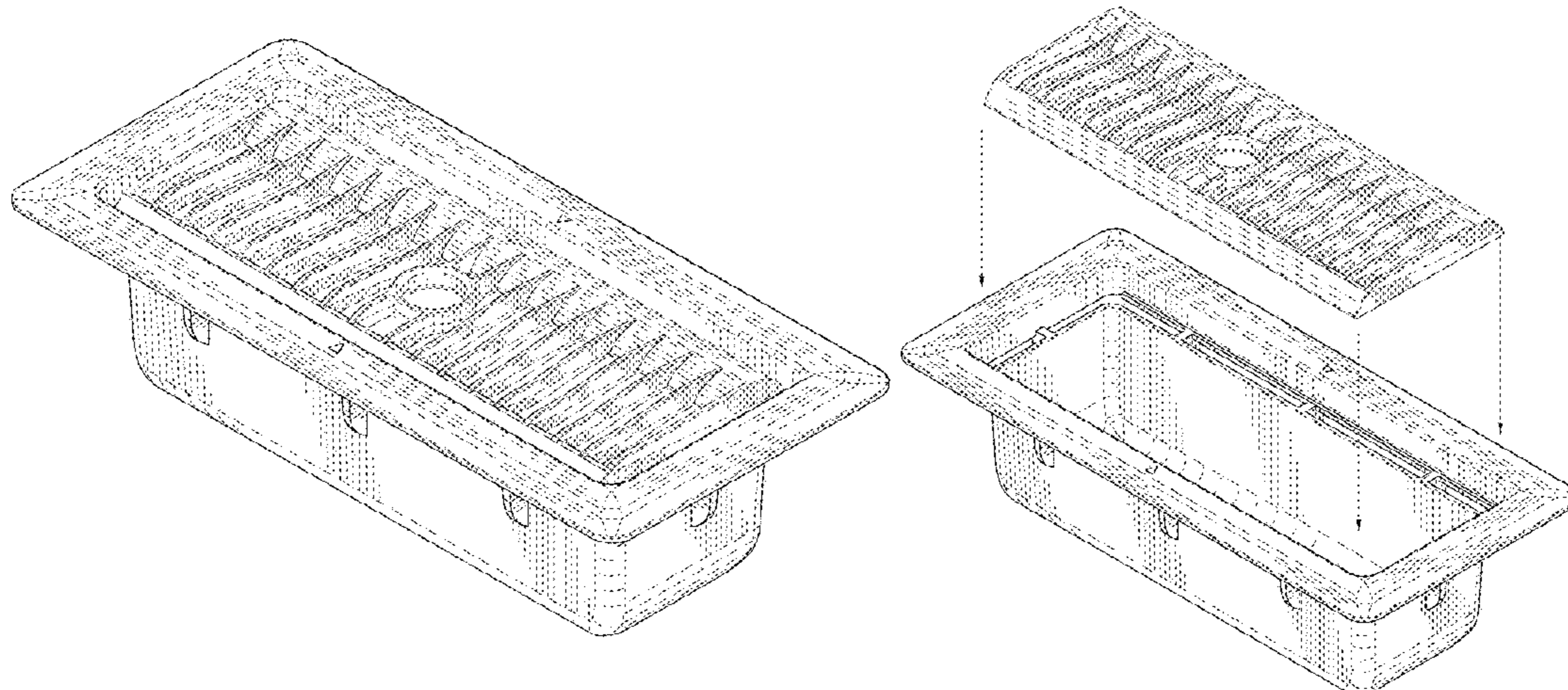


FIG. 22 is an end view of the basin of FIG. 18;  
 FIG. 23 is an opposite end view of the basin of FIG. 18;  
 FIG. 24 is a top view of the basin of FIG. 18; and,  
 FIG. 25 is a bottom view of the basin of FIG. 18.  
 The shaded lines in the Figures show contour and not surface  
 ornamentation.

**1 Claim, 20 Drawing Sheets**

(58) **Field of Classification Search**

CPC .... F24F 7/00; F24F 13/08; F24F 13/10; F24F  
 13/12; F24F 13/14; F24F 13/06; F24F  
 13/00; F24F 13/28; B01D 46/24; A61L  
 9/16; A47L 5/38

See application file for complete search history.

(56)

**References Cited**

U.S. PATENT DOCUMENTS

5,232,403	A *	8/1993	Marotta .....	F24F 13/081 454/289
D353,193	S *	12/1994	Porter .....	D23/393
D358,205	S *	5/1995	Ruhland .....	D23/393
5,597,392	A *	1/1997	Hawkins .....	F24F 13/28 96/222
D413,665	S *	9/1999	Hudson .....	D23/370
5,984,776	A *	11/1999	Berger .....	F24F 13/085 454/290

D449,880	S *	10/2001	Webb .....	D23/393
D451,187	S *	11/2001	Webb .....	D23/393
6,503,140	B1 *	1/2003	Haynes .....	F24F 13/075 454/290
7,328,478	B2 *	2/2008	Jenkins .....	A47L 5/38 15/301
D595,832	S *	7/2009	Asselbergs .....	D23/388
D618,783	S *	6/2010	Kimura .....	D23/388
D629,883	S *	12/2010	Kimura .....	D23/388
8,419,515	B1 *	4/2013	Dillon .....	F24F 13/084 454/284
D736,366	S *	8/2015	Picco .....	D23/386
D770,606	S *	11/2016	Hrydovyy .....	D23/398
D807,495	S *	1/2018	Hirsch .....	D23/393
D850,610	S *	6/2019	Drummond .....	D23/393
D875,233	S *	2/2020	Sykes .....	D23/371
D875,915	S *	2/2020	Hirsch .....	D23/393
D875,916	S *	2/2020	Hirsch .....	D23/393
2006/0240764	A1 *	10/2006	Pierce .....	F24F 3/166 454/329

OTHER PUBLICATIONS

In vent Humidifier, announced Date unavailable[online], [site visited May 4, 2020]. Available from internet, URL:<[http://www.cadprecision.ca/cadprecision.ca/IN-vent\\_Humidifier.html](http://www.cadprecision.ca/cadprecision.ca/IN-vent_Humidifier.html)> (Year: 2020).\*

In Vent Humidifier, announced Date Oct. 4, 2019[online], [site visited May 4, 2020]. Available from internet, URL:<<https://www.youtube.com/watch?v=5rLq-zLjzQs>> (Year: 2019).\*

\* cited by examiner

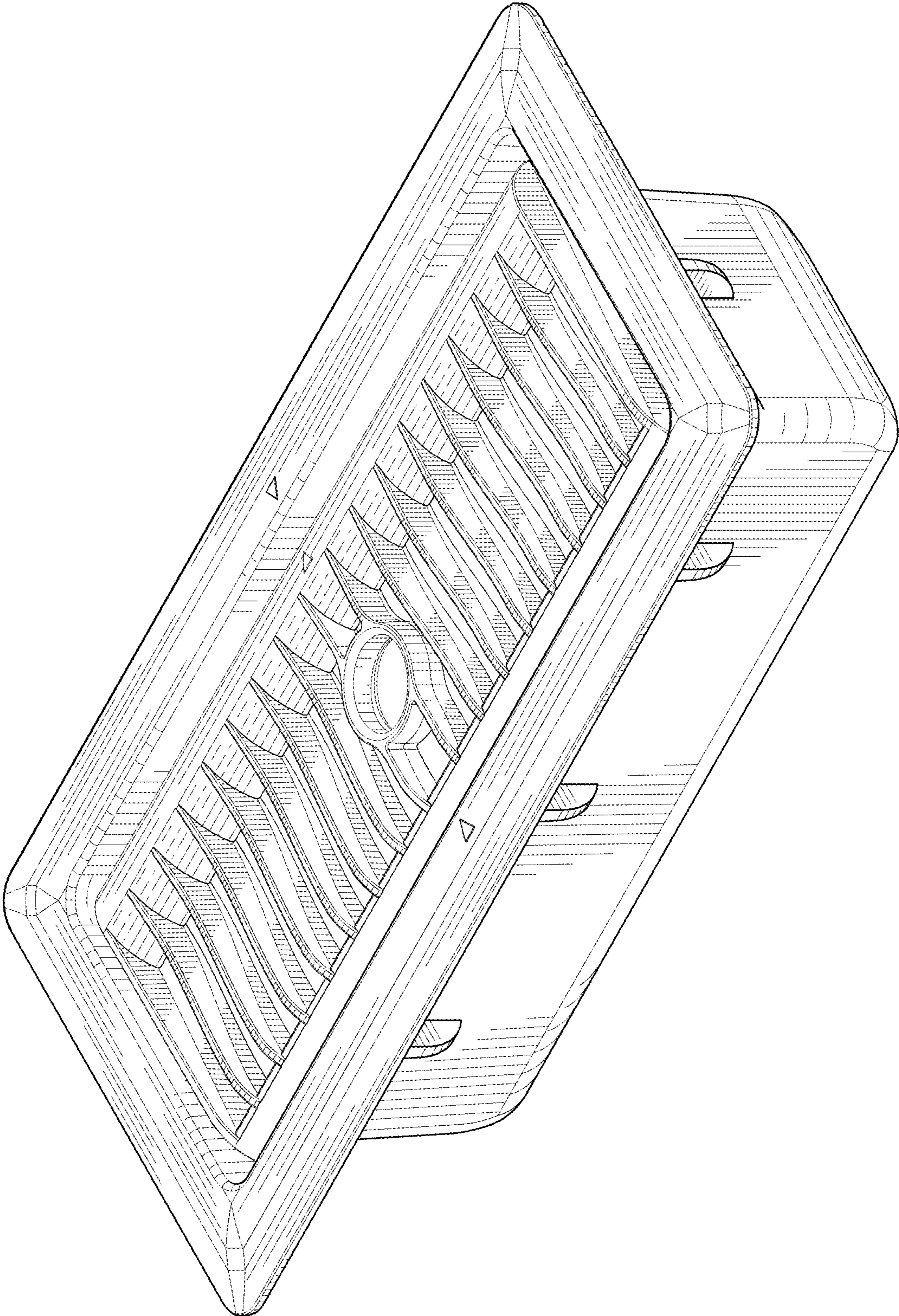


FIG.1

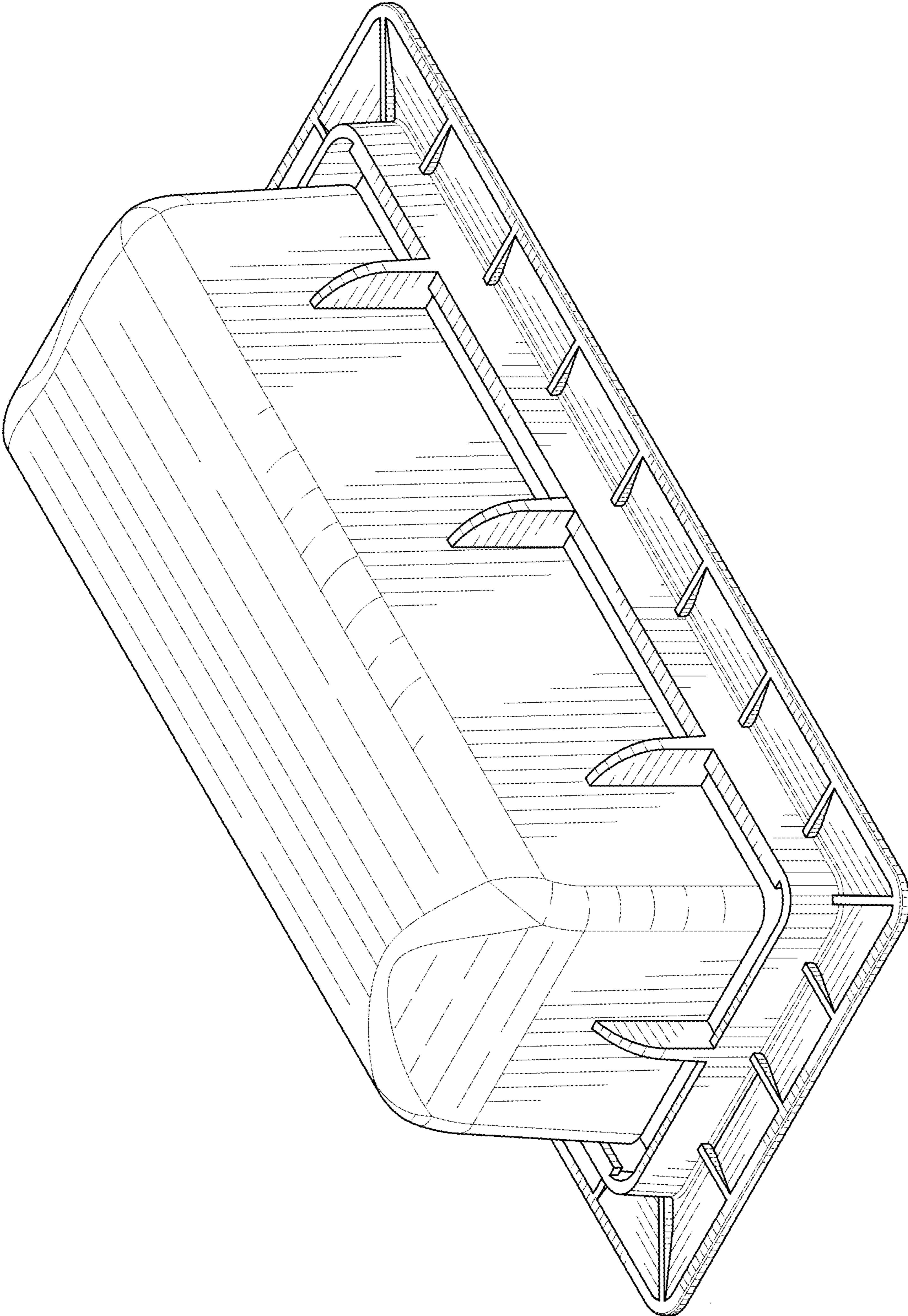


FIG.2

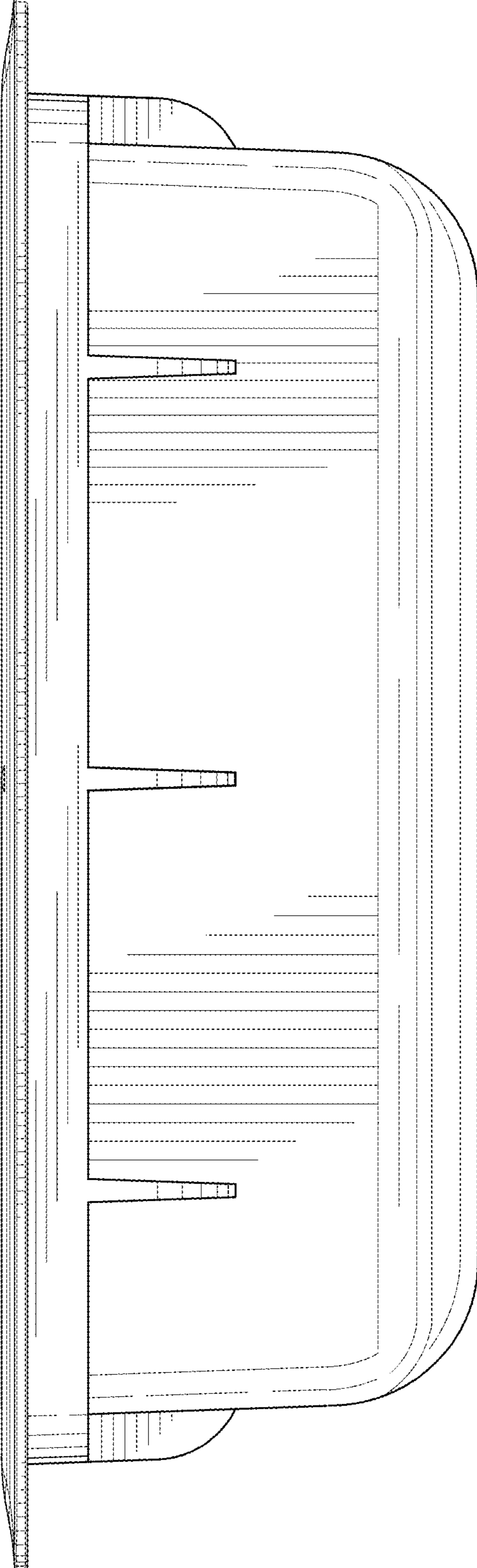


FIG.3

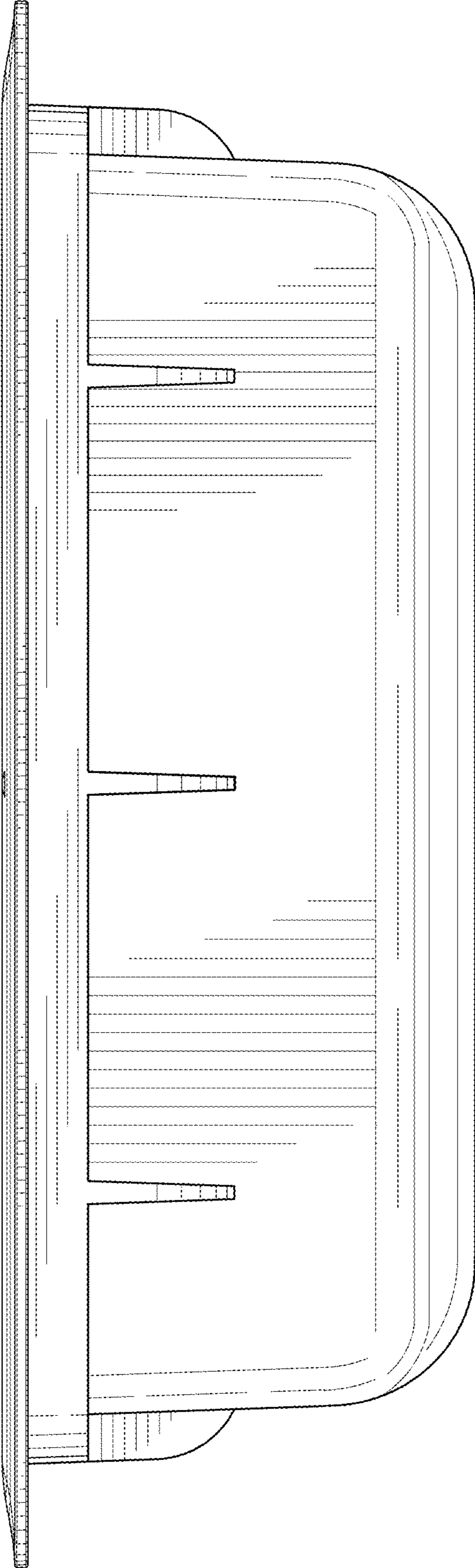


FIG.4

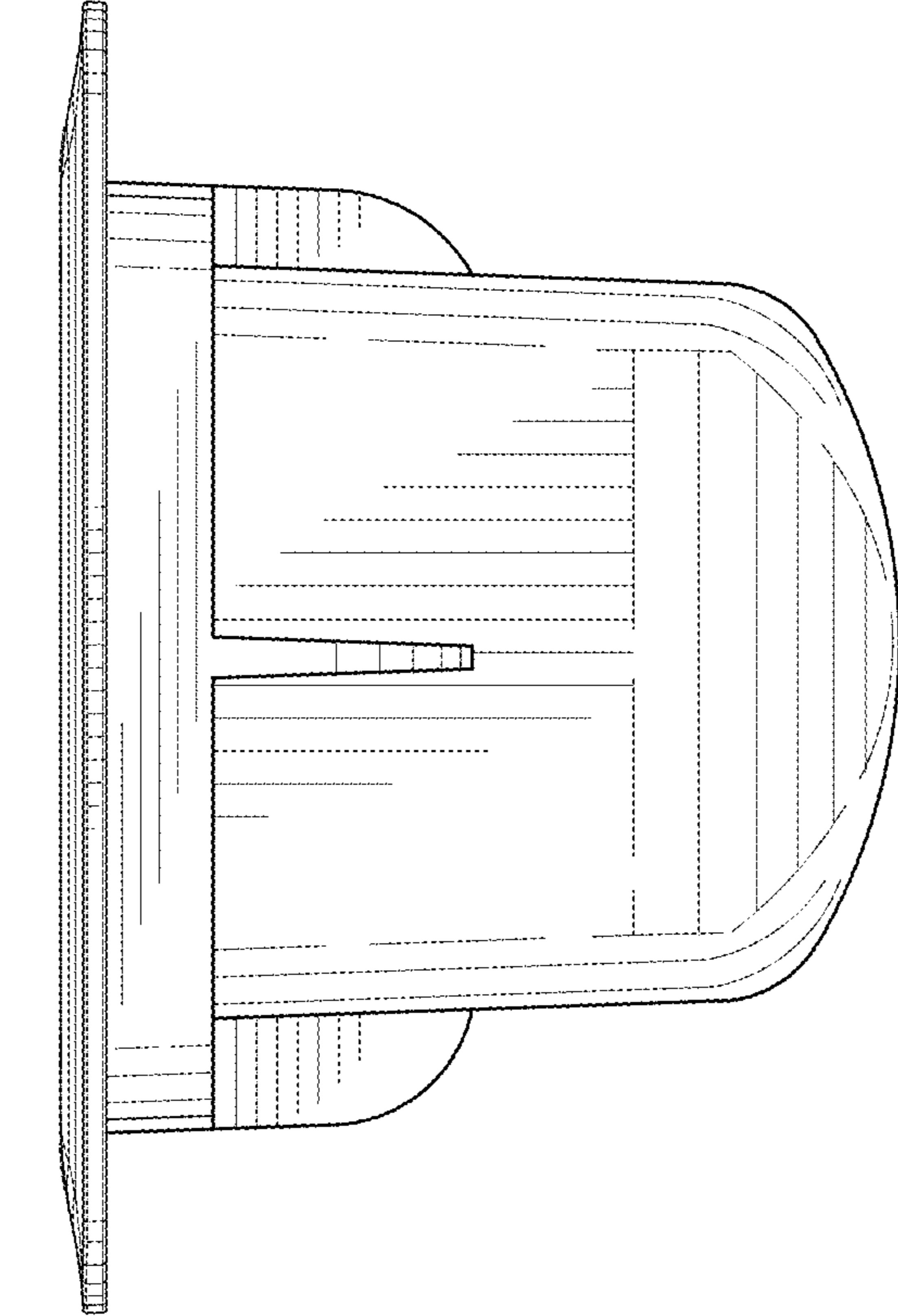


FIG.5

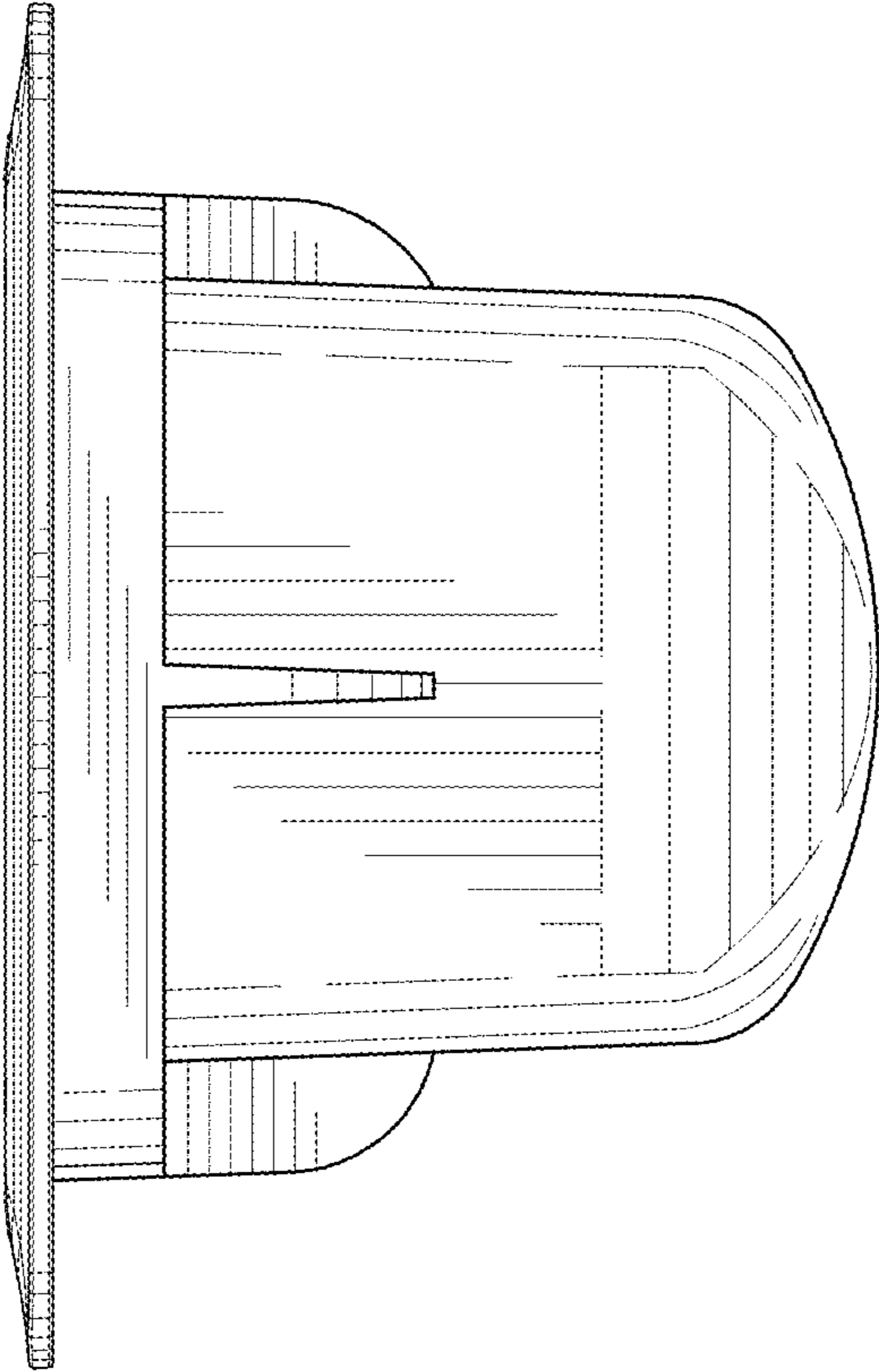


FIG.6

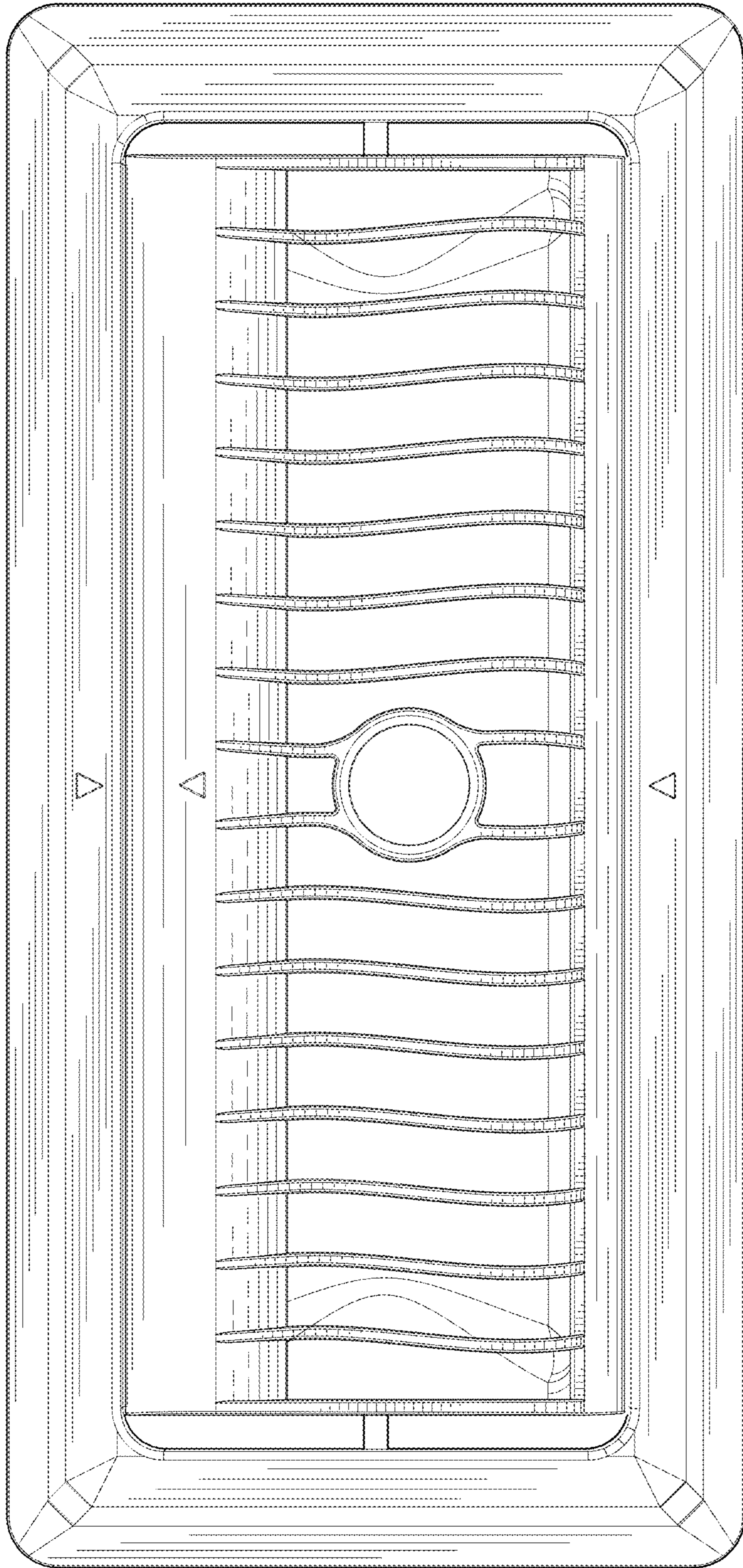


FIG.7



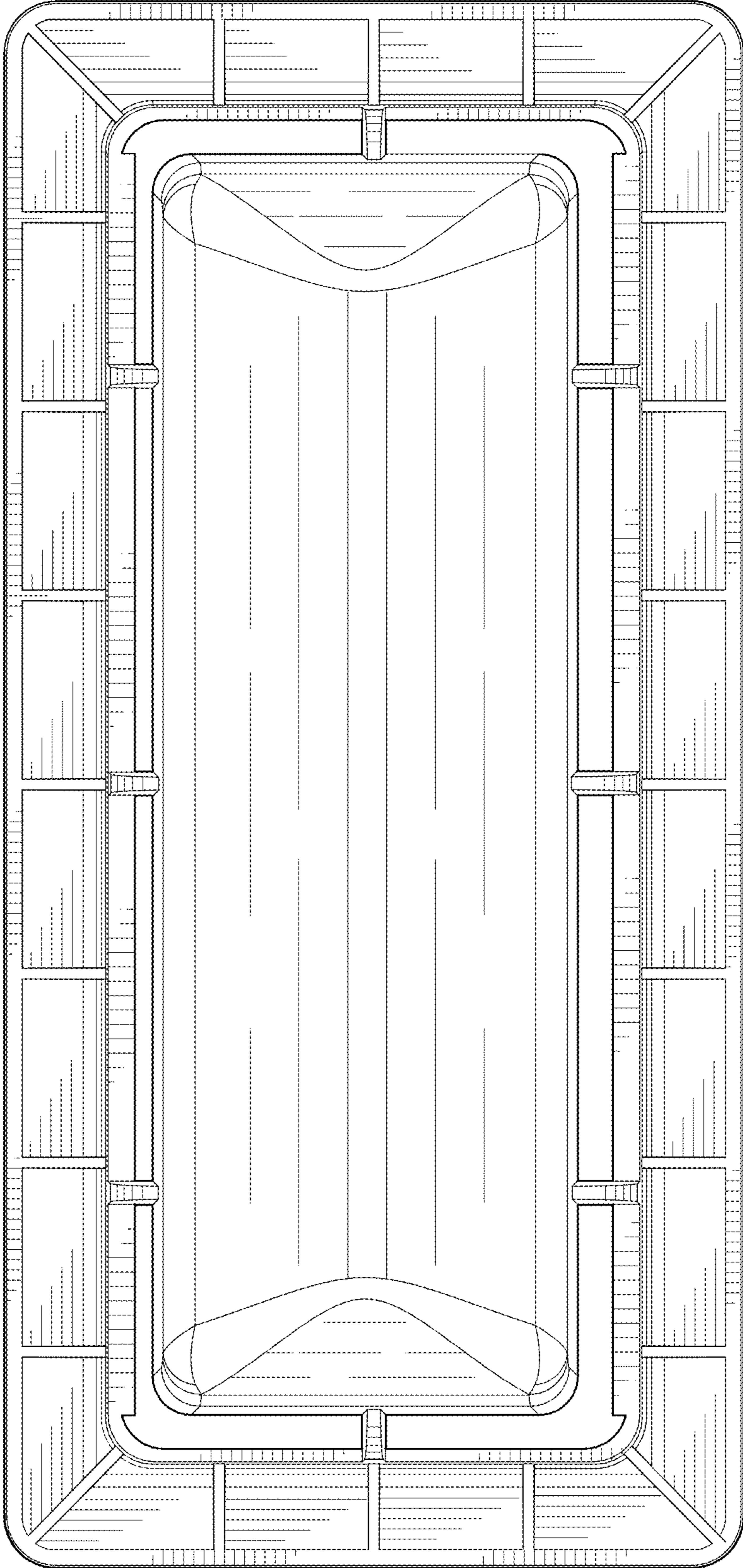


FIG.8

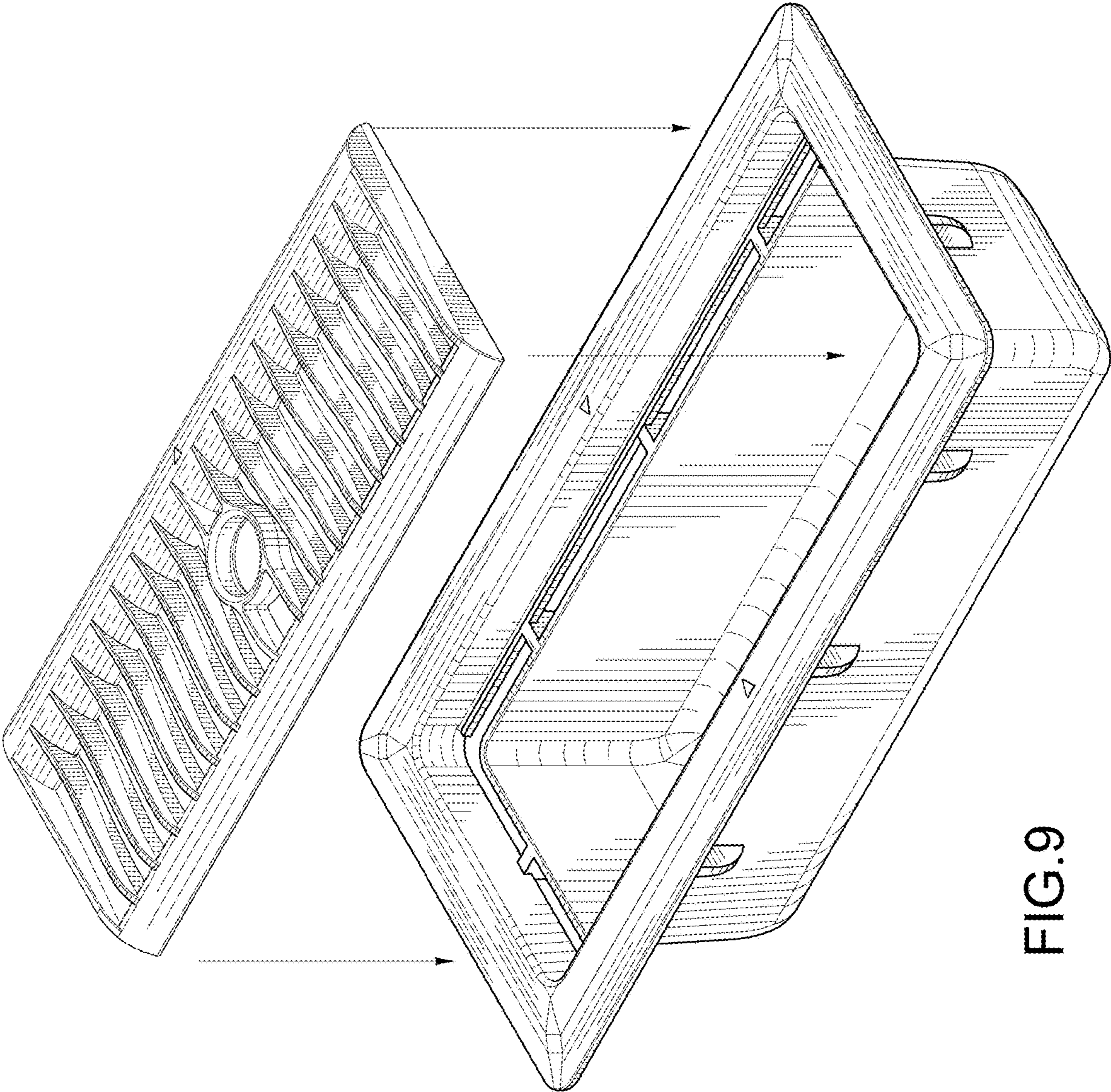


FIG.9

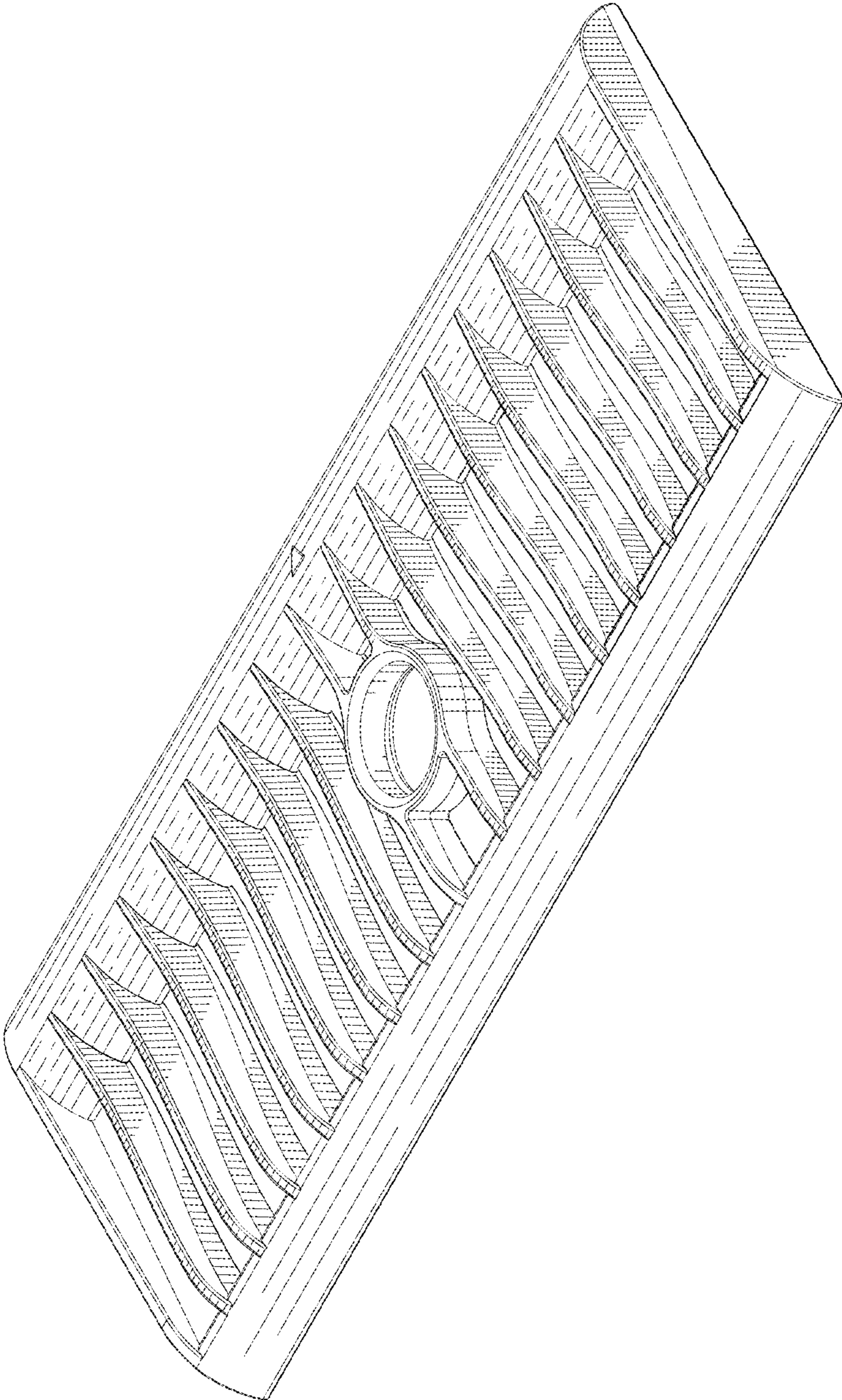


FIG. 10

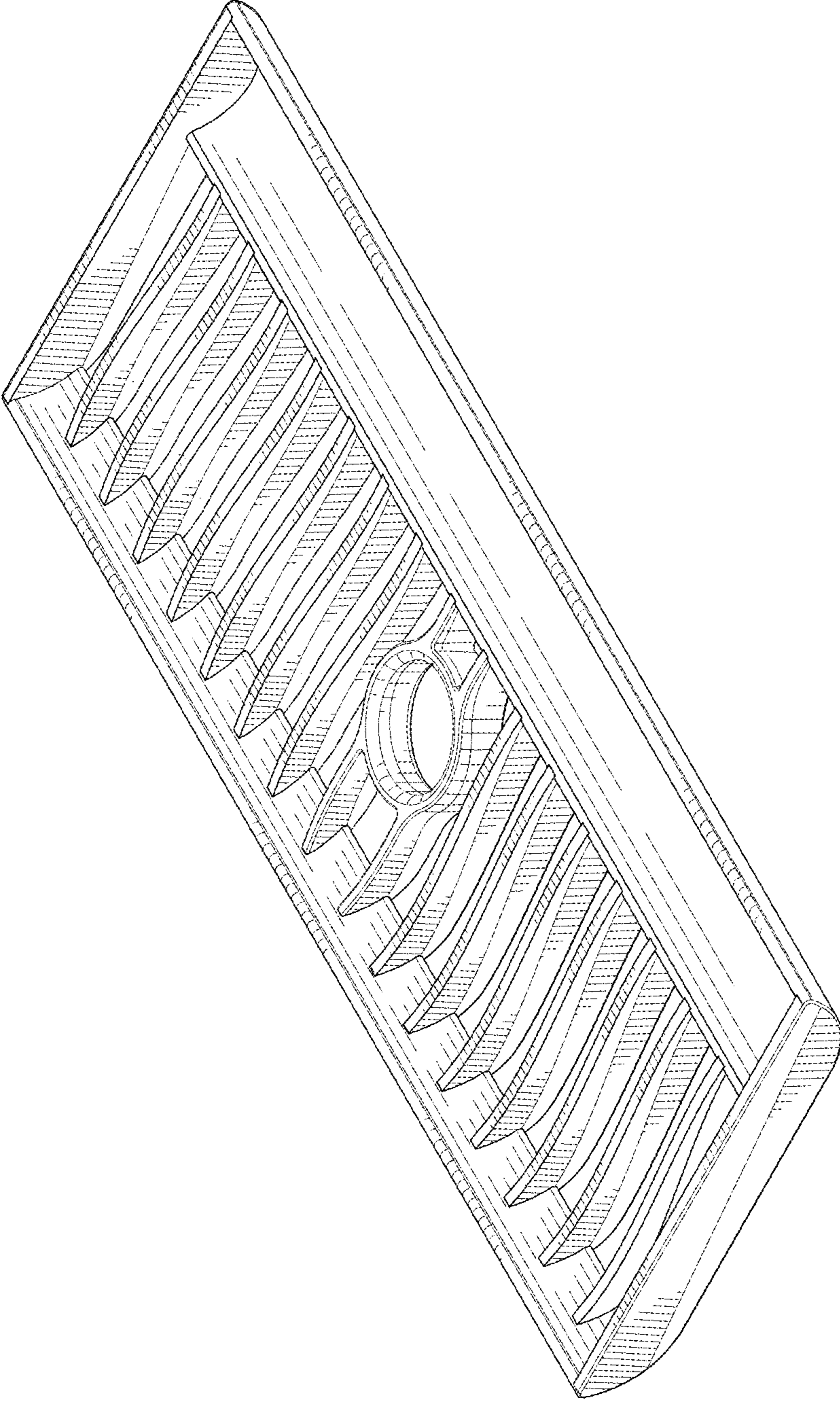


FIG. 11

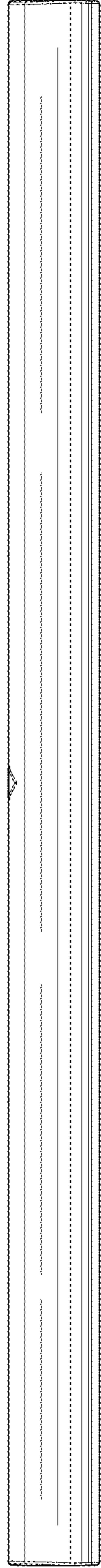


FIG. 12

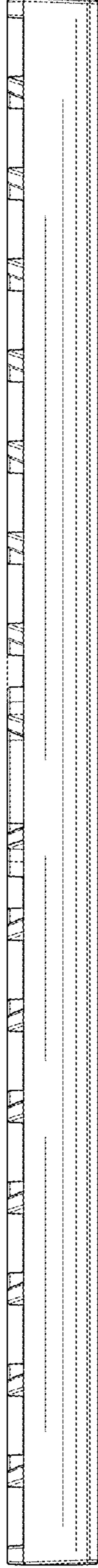


FIG. 13

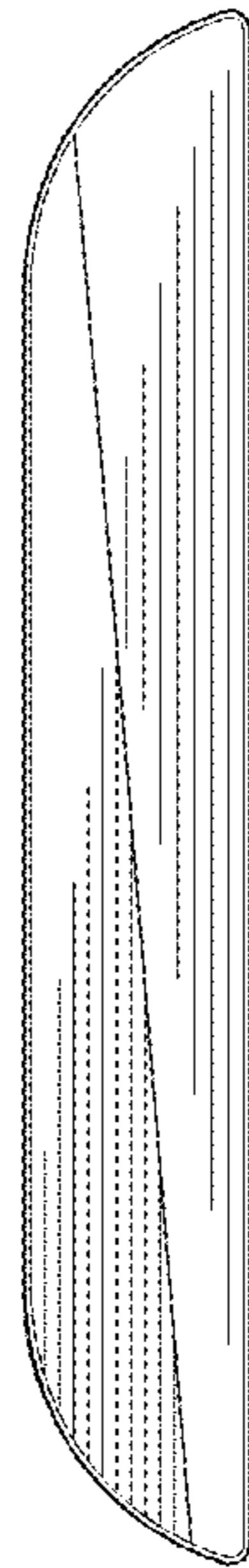


FIG. 14

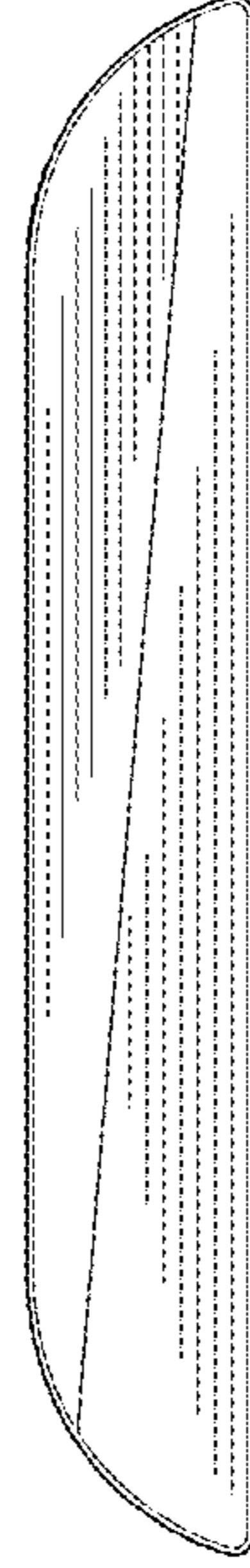


FIG. 15

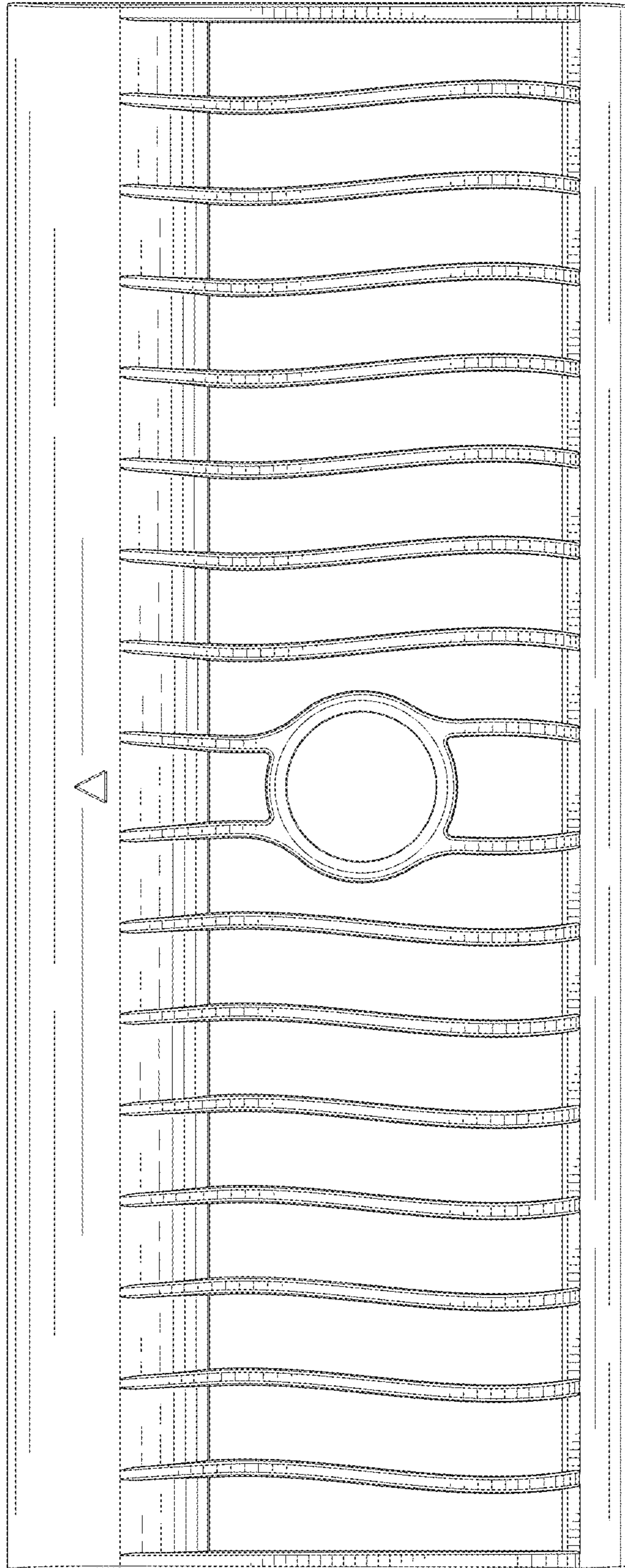


FIG. 16

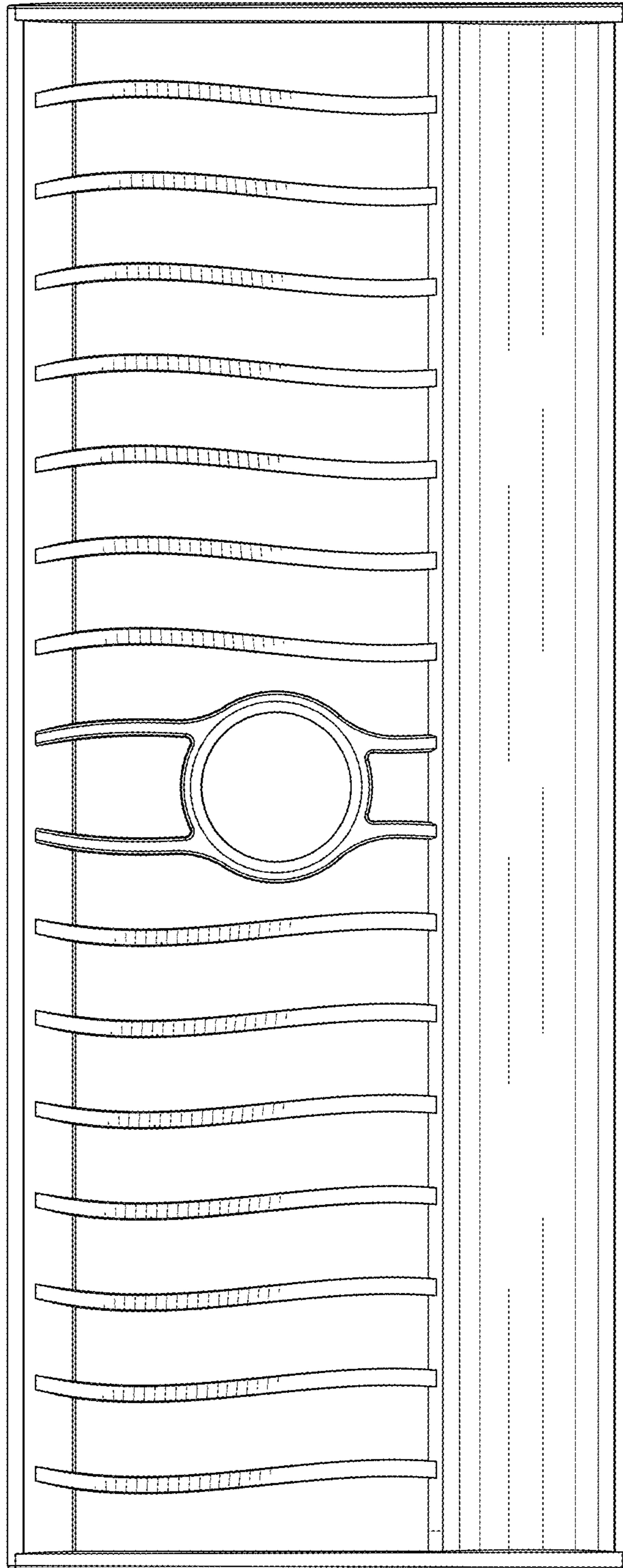


FIG. 17

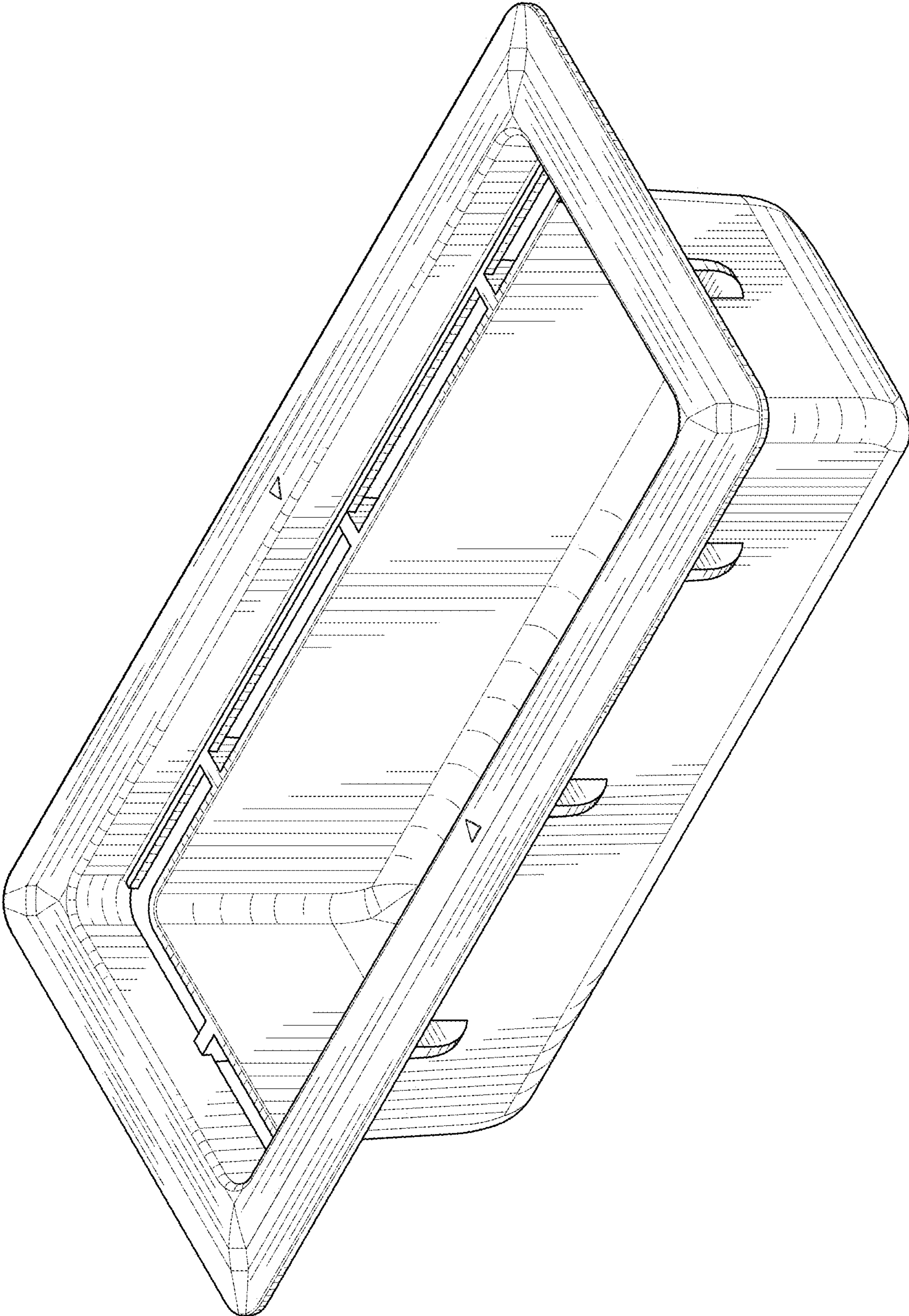


FIG. 18



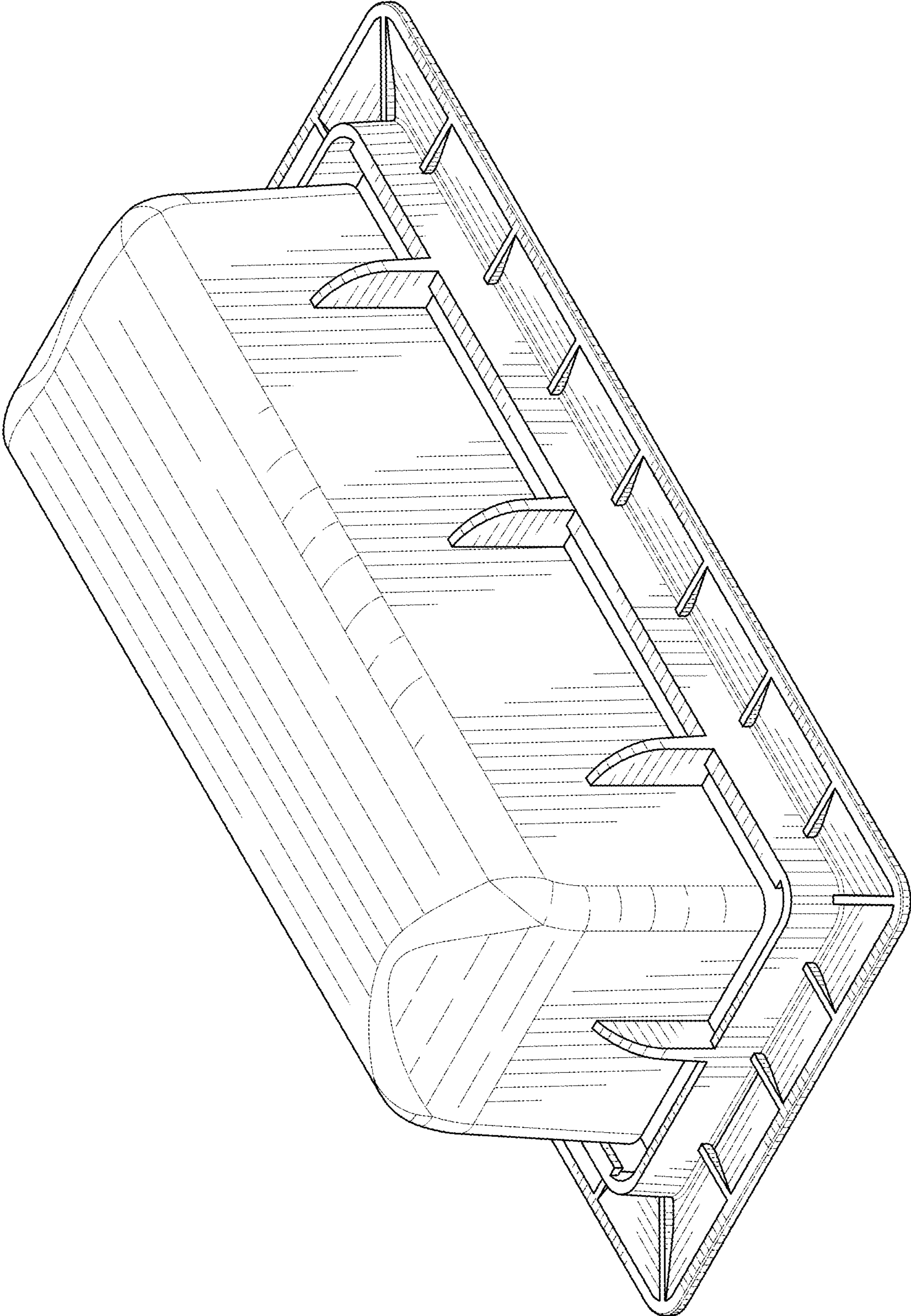


FIG. 19

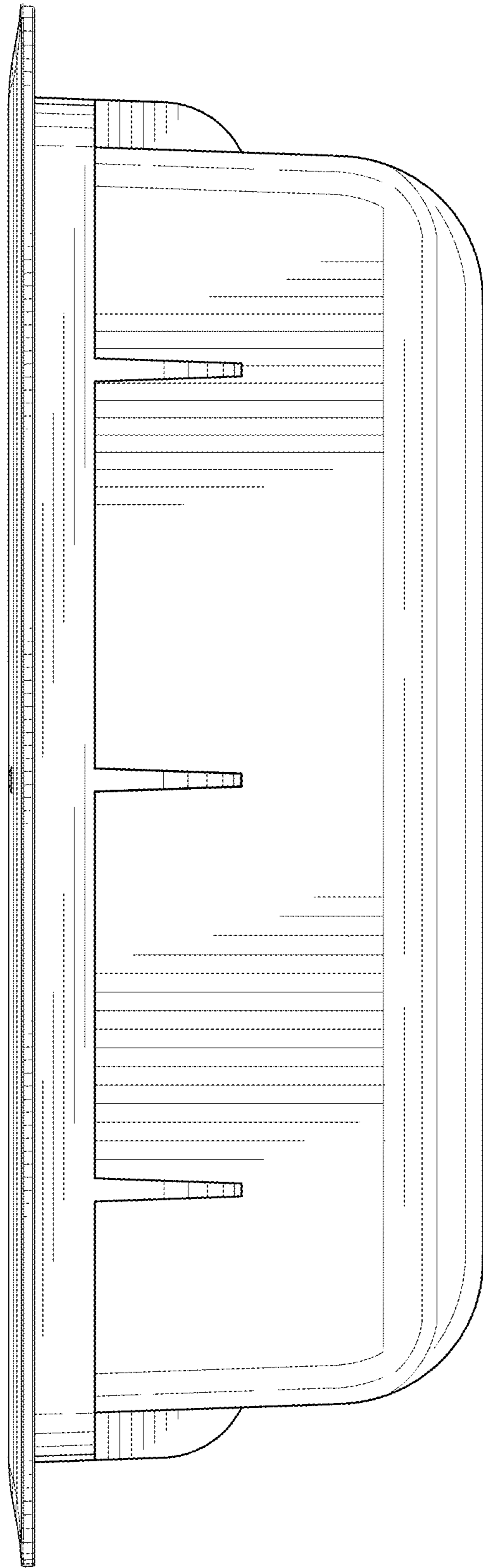


FIG. 20

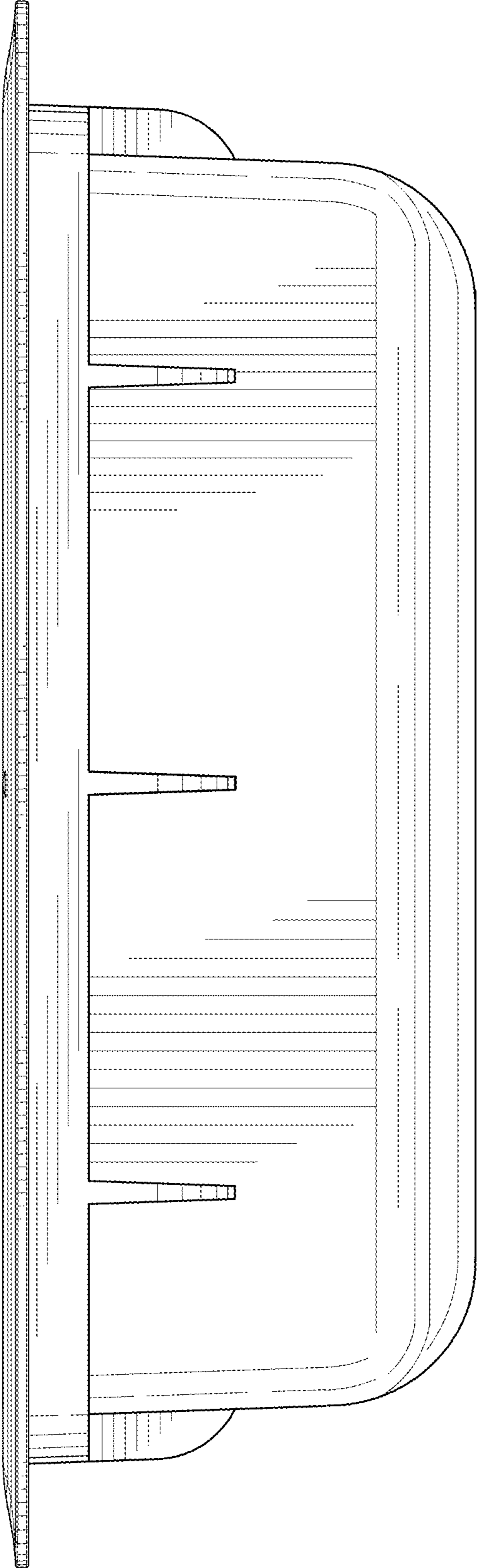


FIG. 21

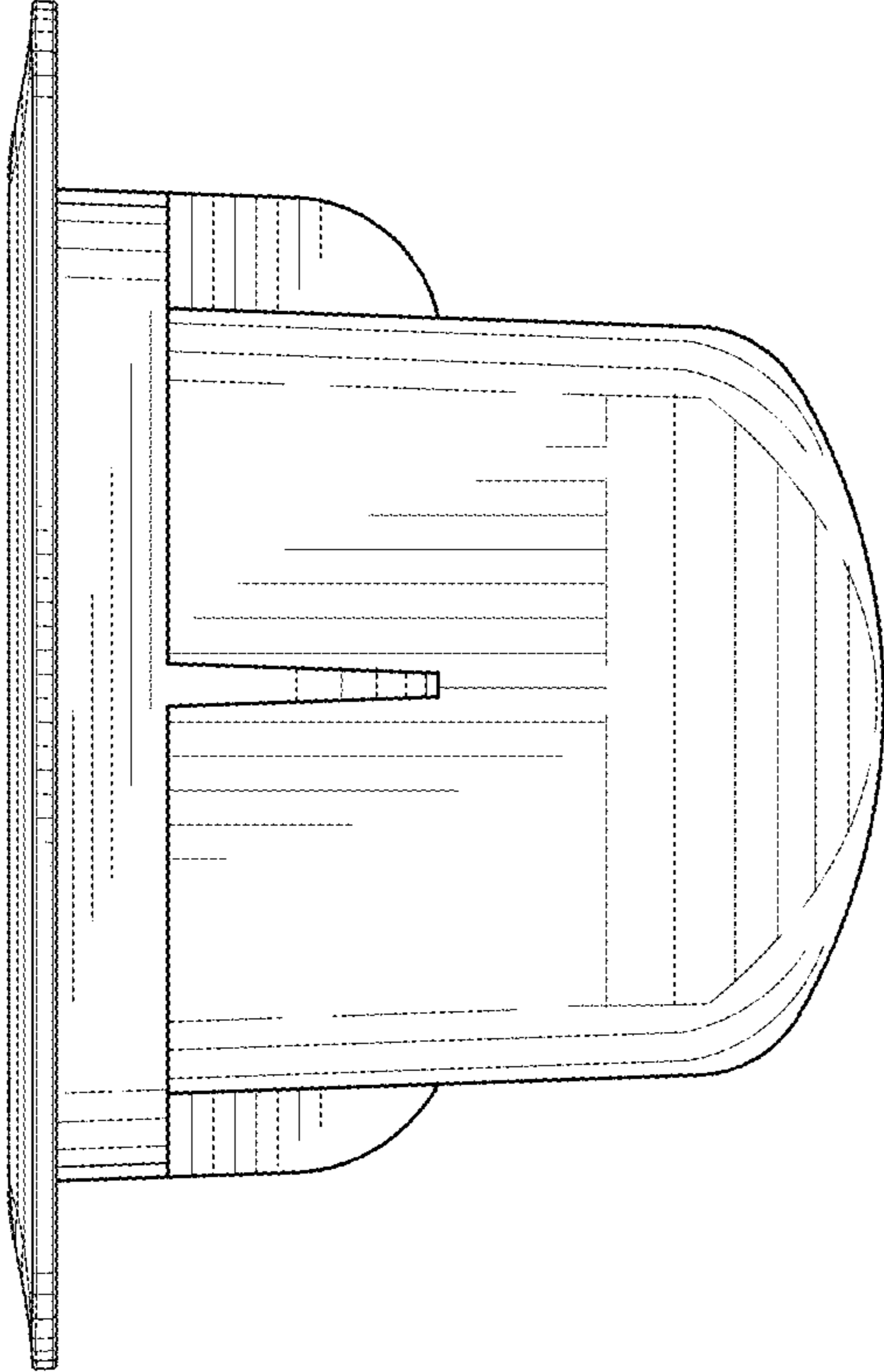


FIG. 23

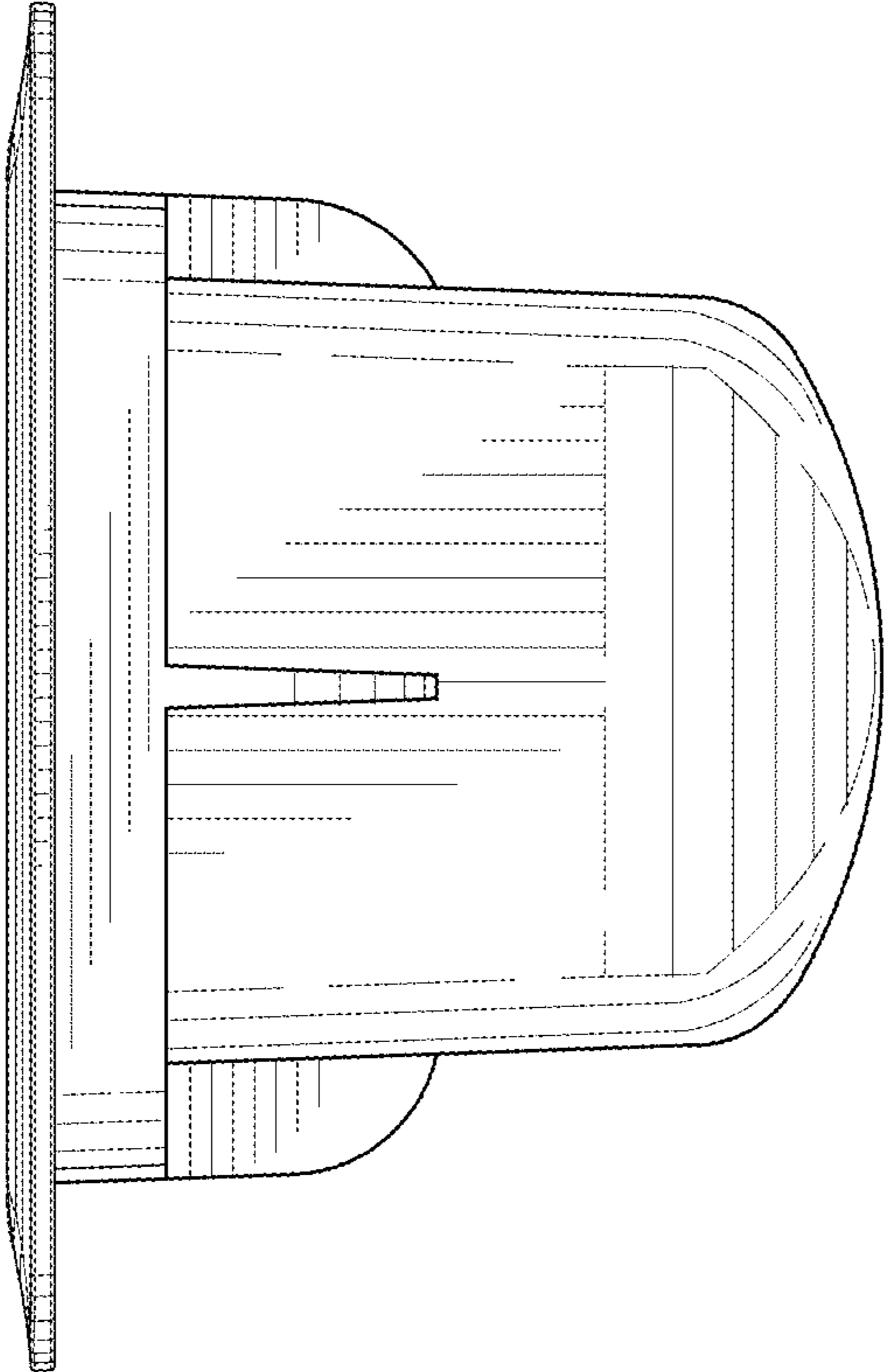


FIG. 22

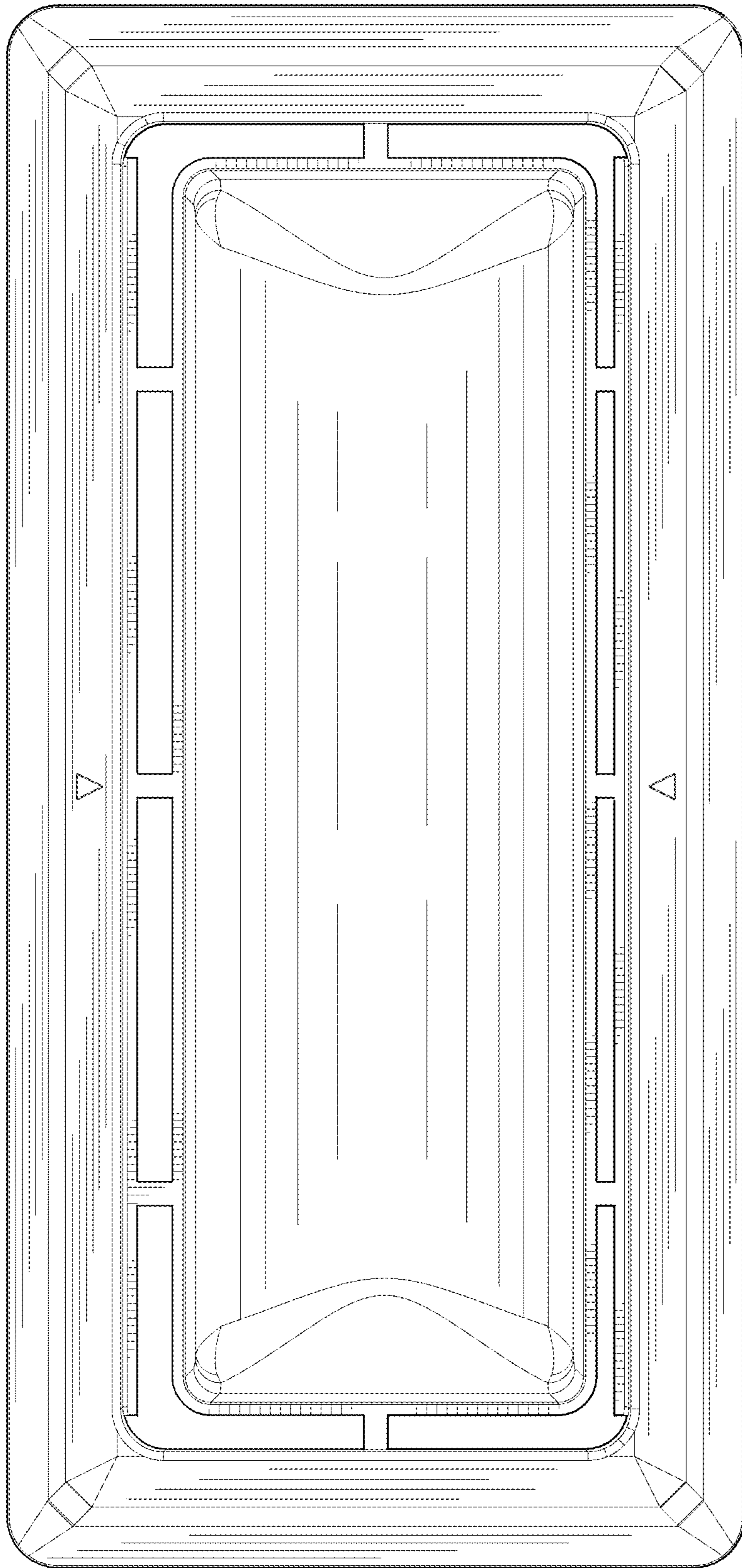


FIG. 24

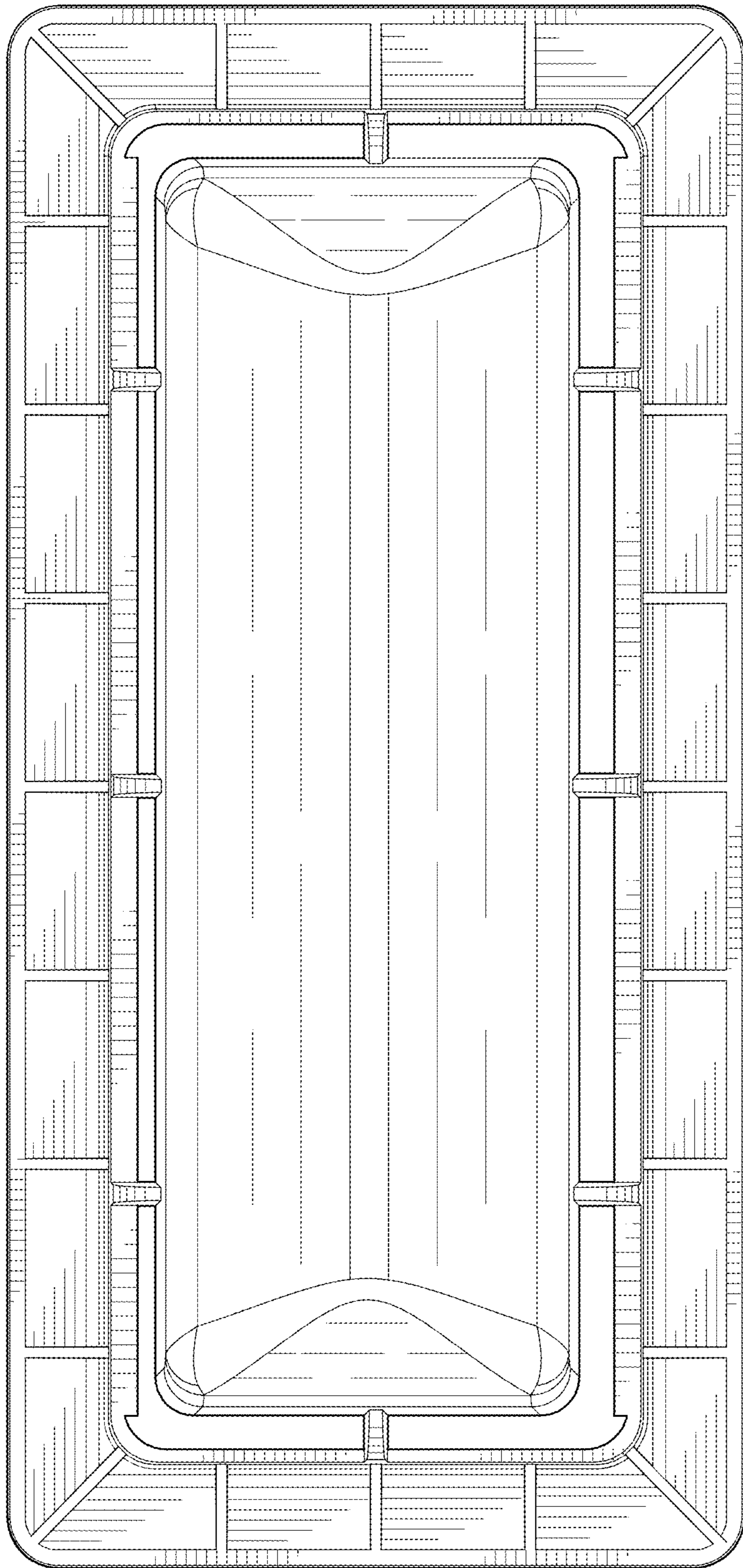


FIG. 25