



US00D865211S

(12) **United States Design Patent** (10) **Patent No.:** **US D865,211 S**
Yu et al. (45) **Date of Patent:** **** Oct. 29, 2019**

(54) **CRYO PUCK**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (12) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/224**

(58) **Field of Classification Search**
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CPC A01N 1/02; A01N 1/0252; A01N 1/0257; A01N 1/0263; A01N 1/0268; B01L 2300/1894; B01L 3/5453; B01L 7/00; B01L 7/04; B01L 9/06; B01L 9/065; B01L 9/07; B01L 9/08; B01L 9/09; B01L 9/52; F17C 13/005; F17C 13/06; F17C 13/083; F17C 2201/0119; F17C 2201/032; F17C 2203/018; F17C 2203/0391; F17C 2203/0626; F17C 2205/0165; F17C 2205/0308; F17C

2223/0161; F17C 2260/033; F17C 2270/0509; F17C 3/02; F17C 3/08; F17C 3/085; F17C 11/005; F25B 21/02; F25B 21/04; F25D 25/00; F25D 25/005; F25D 3/00; F25D 3/08; F25D 3/10; F25D 3/107; F25D 9/00; F25D 11/003; B65D 81/3802; B65B 3/003

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,108,840 A * 10/1963 Conrad A01N 1/02 312/400
D259,141 S * 5/1981 Oliver D11/147
4,314,450 A * 2/1982 Pelloux-Gervais A01N 1/02 62/51.1

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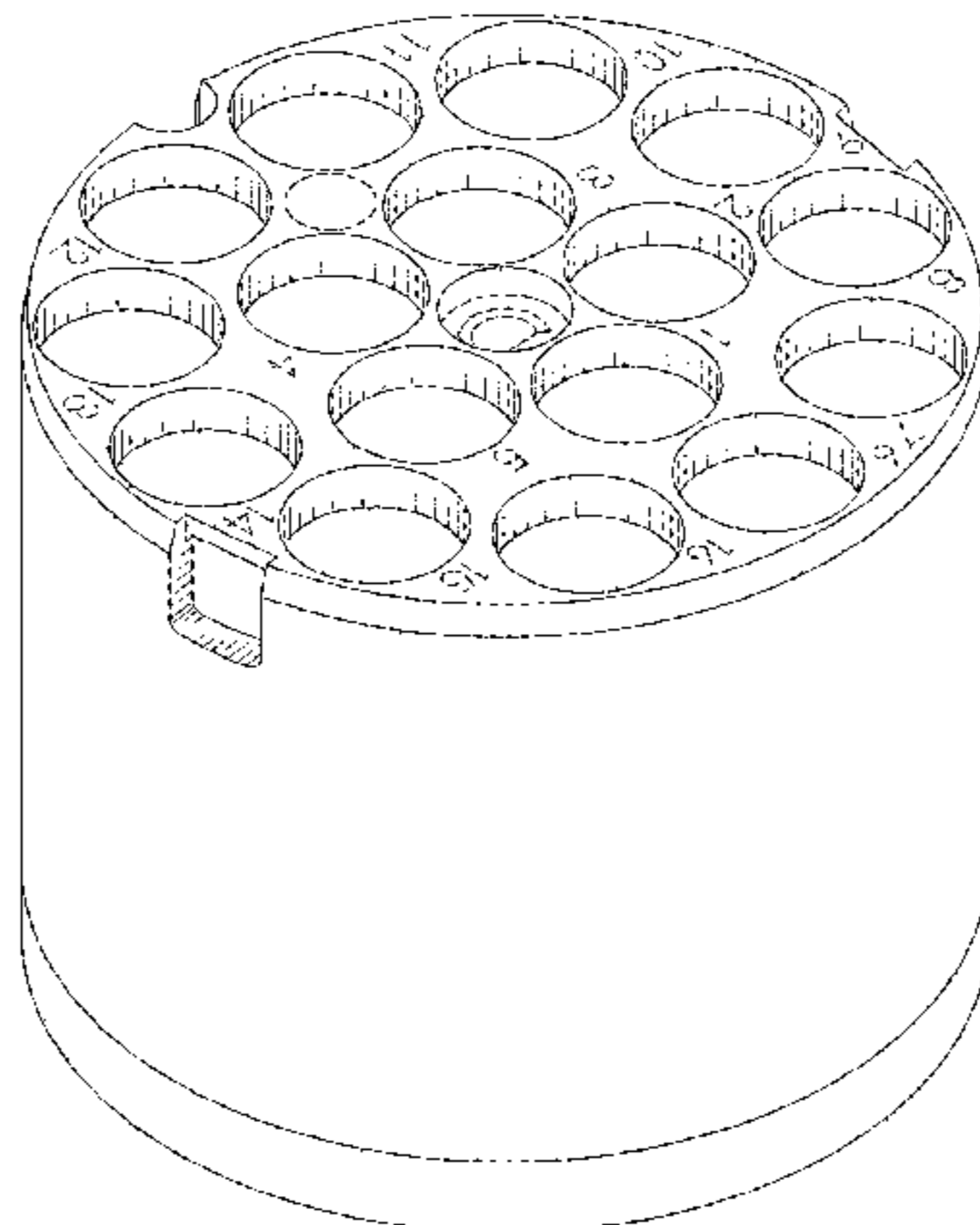
(57) **CLAIM**

The ornamental design for a cryo puck, as shown and described.

DESCRIPTION

FIG. 1 shows a perspective view of a cryo puck; FIG. 2 is a plan view of the upper surface of the cryo puck shown in FIG. 1; FIG. 3 is a side view of the cryo puck shown in FIG. 1; FIG. 4 is a side view of the cryo puck shown in FIG. 1; FIG. 5 is a plan view of the lower surface of the cryo puck shown in FIG. 1; FIG. 6 is a side view of the cryo puck shown in FIG. 1; and, FIG. 7 is a side view of the cryo puck shown in FIG. 1. The broken lines indicated in the Figures illustrate portions of the cryo puck that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,377,077 A * 3/1983 Granlund A01N 1/02
435/307.1
4,455,842 A * 6/1984 Granlund A01N 1/02
62/64
D287,633 S * 1/1987 Hollar D24/230
4,932,533 A * 6/1990 Collier A61B 10/0096
206/370
D325,934 S * 5/1992 Ramljak D11/147
5,291,997 A * 3/1994 He A61M 5/002
206/366
5,321,955 A * 6/1994 Leonard B01L 7/04
62/457.9
5,385,026 A * 1/1995 Zhang F17C 13/083
62/50.7
5,419,143 A * 5/1995 Leonard B01L 7/04
62/46.3
D364,929 S * 12/1995 Bigler D24/230
5,829,594 A * 11/1998 Warder B01L 9/06
206/459.1
5,894,733 A * 4/1999 Brodner B01L 9/06
62/457.9
5,934,099 A * 8/1999 Cook A61J 1/165
206/570
6,378,314 B1 * 4/2002 Clark F17C 3/10
62/457.9
6,467,642 B2 * 10/2002 Mullens F17C 3/08
220/367.1
6,595,382 B2 * 7/2003 Edinger F17C 1/08
220/560.1
6,742,650 B2 * 6/2004 Yang C01B 3/0005
206/0.7

D529,622 S * 10/2006 Hadjis D24/229
7,299,650 B1 * 11/2007 Romanos F17C 3/085
62/371
7,540,168 B2 * 6/2009 Schumann A01N 1/02
62/378
7,870,748 B2 * 1/2011 Byrne B01L 9/52
62/371
8,770,907 B2 * 7/2014 Yoshimura A01N 1/0263
220/560.12
8,887,944 B2 * 11/2014 Deane B65D 81/3802
206/499
9,297,499 B2 * 3/2016 Jimenez-Rios A01N 1/0268
9,447,995 B2 * 9/2016 Bloedow F25D 11/006
9,534,992 B2 * 1/2017 Schryver G01N 1/42
2006/0196193 A1 * 9/2006 Byrne B01L 9/06
62/62
2011/0120148 A1 * 5/2011 Yoshimura A01N 1/0257
62/51.1
2011/0308271 A1 * 12/2011 Schryver A01N 1/0263
62/465
2013/0091890 A1 * 4/2013 Schryver B65D 81/38
62/440
2013/0156659 A1 * 6/2013 Abrescia A01N 1/0268
422/561
2013/0263622 A1 * 10/2013 Mullen F25D 11/003
62/451
2014/0157798 A1 * 6/2014 Jimenez-Rios A01N 1/0257
62/62
2015/0204598 A1 * 7/2015 Affleck B65B 3/003
700/228
2015/0334774 A1 * 11/2015 Schryver H05B 1/025
219/439

* cited by examiner

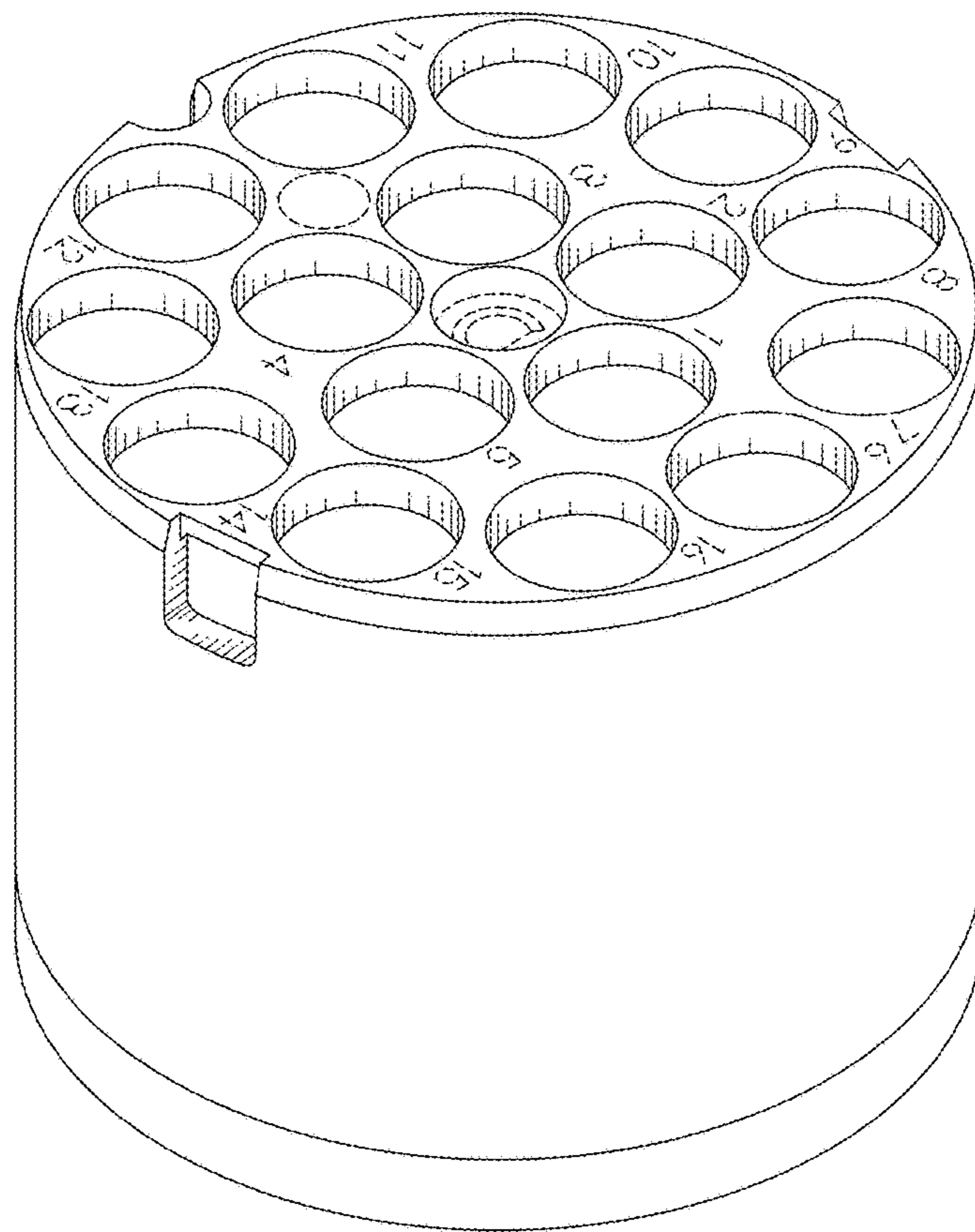


FIG. 1

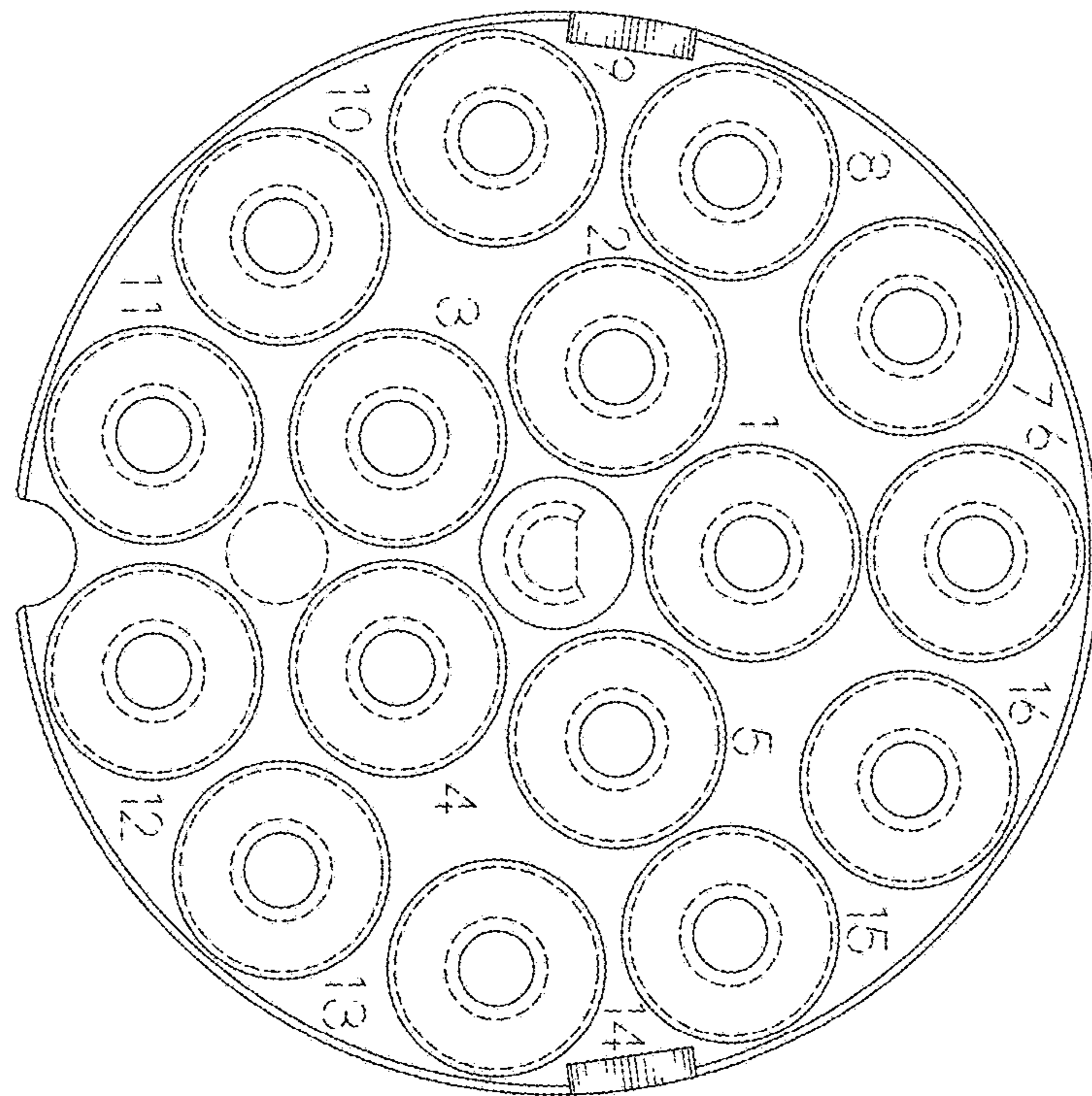


FIG. 2

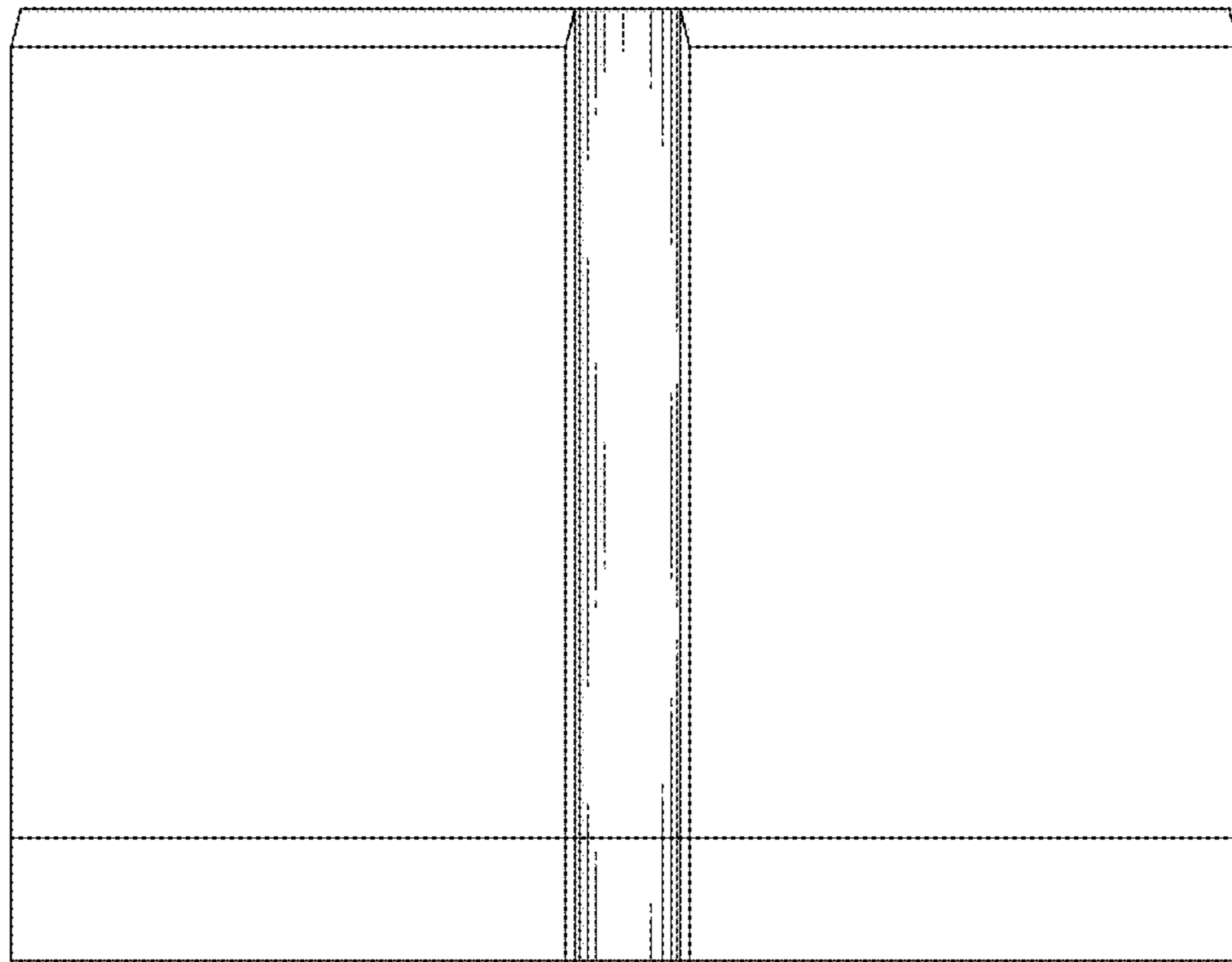


FIG. 3

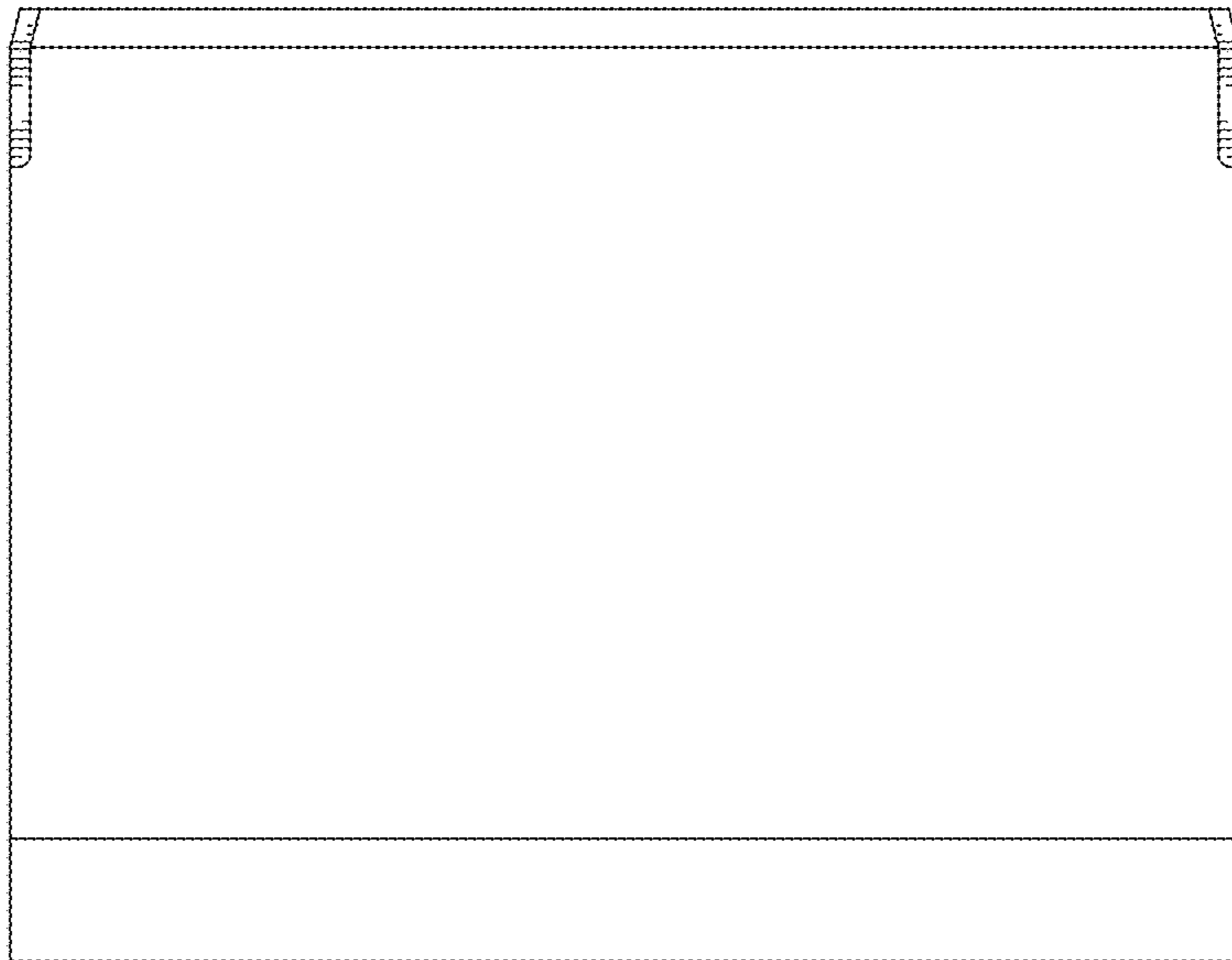


FIG. 4

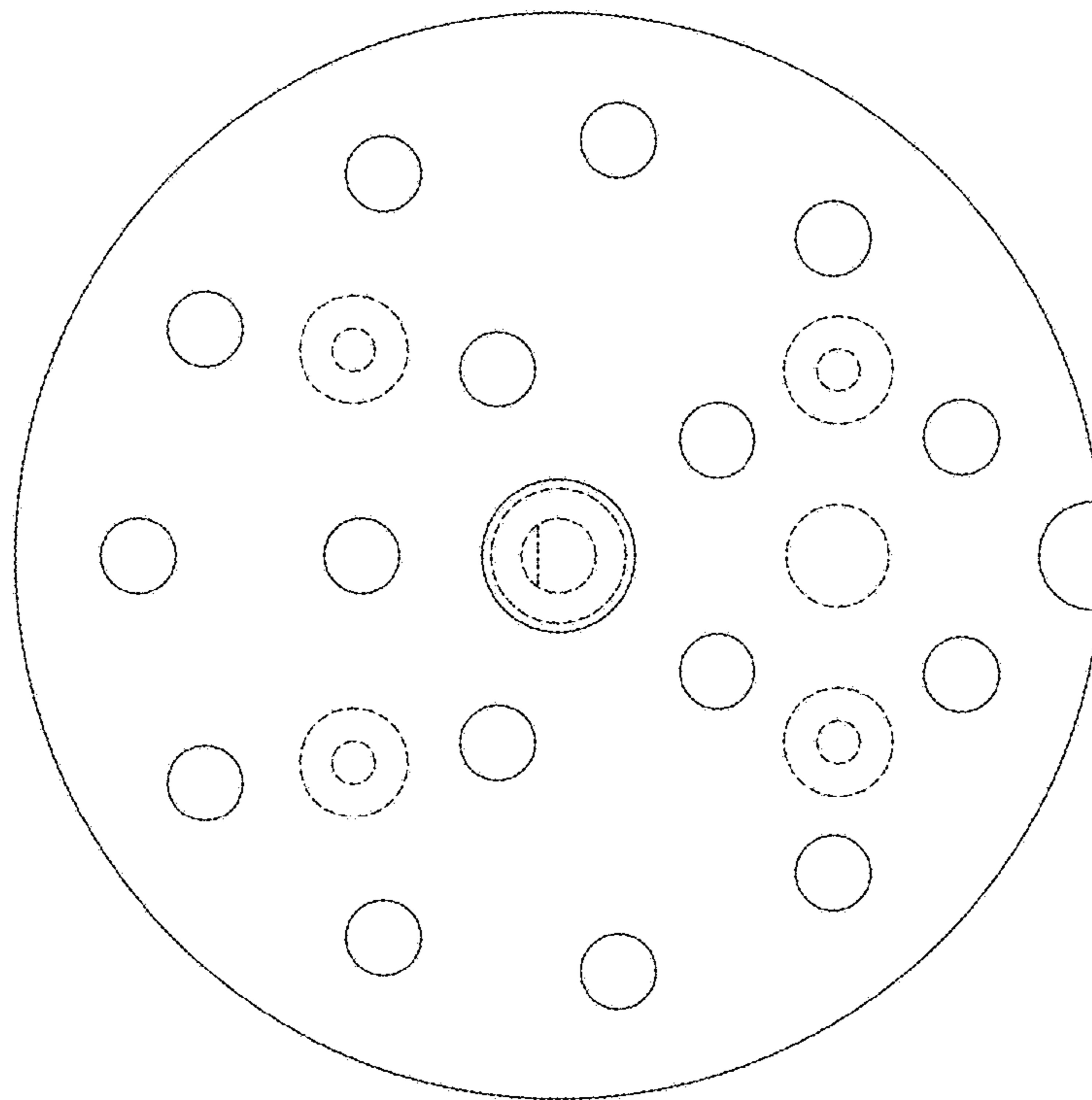


FIG. 5

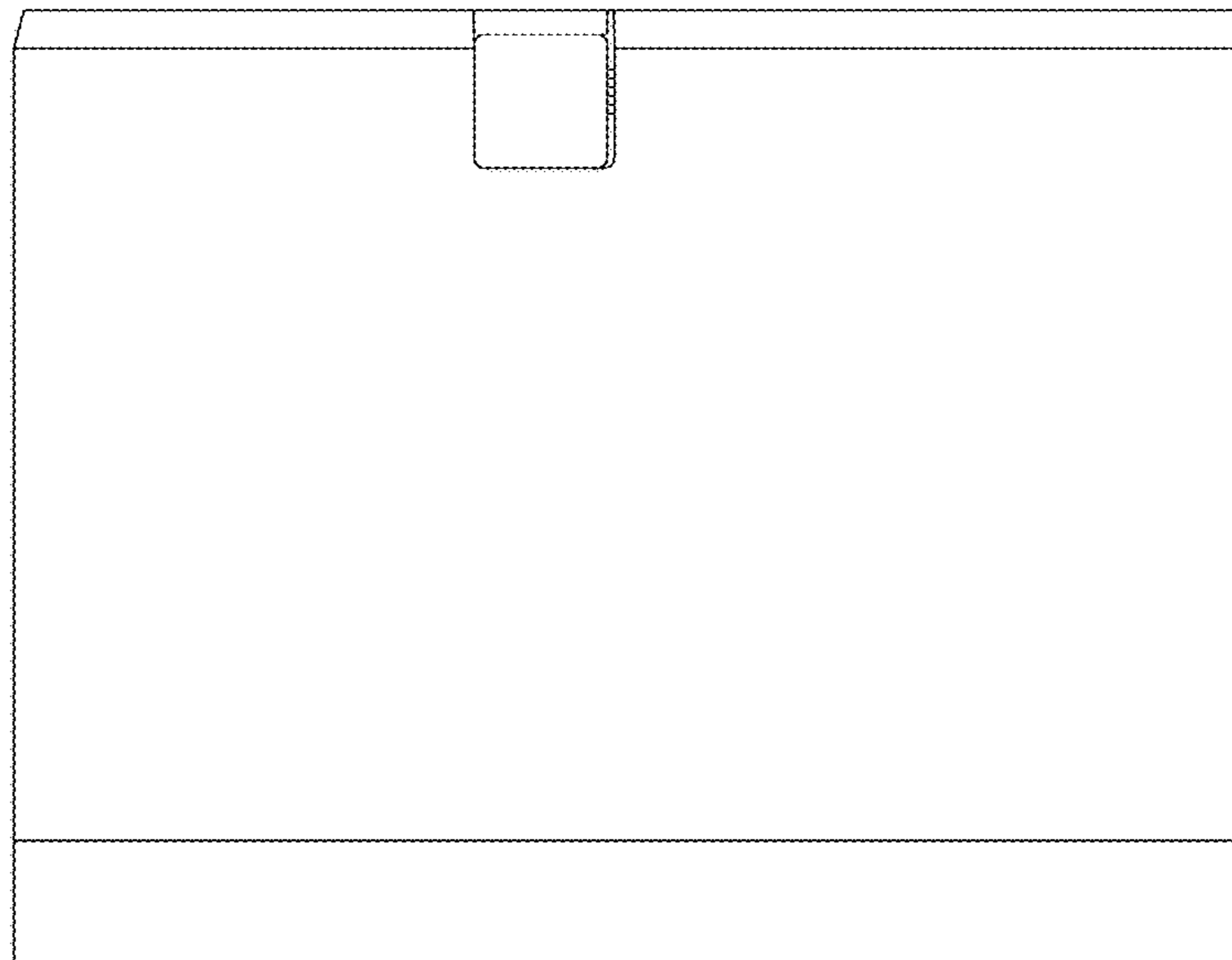


FIG. 6

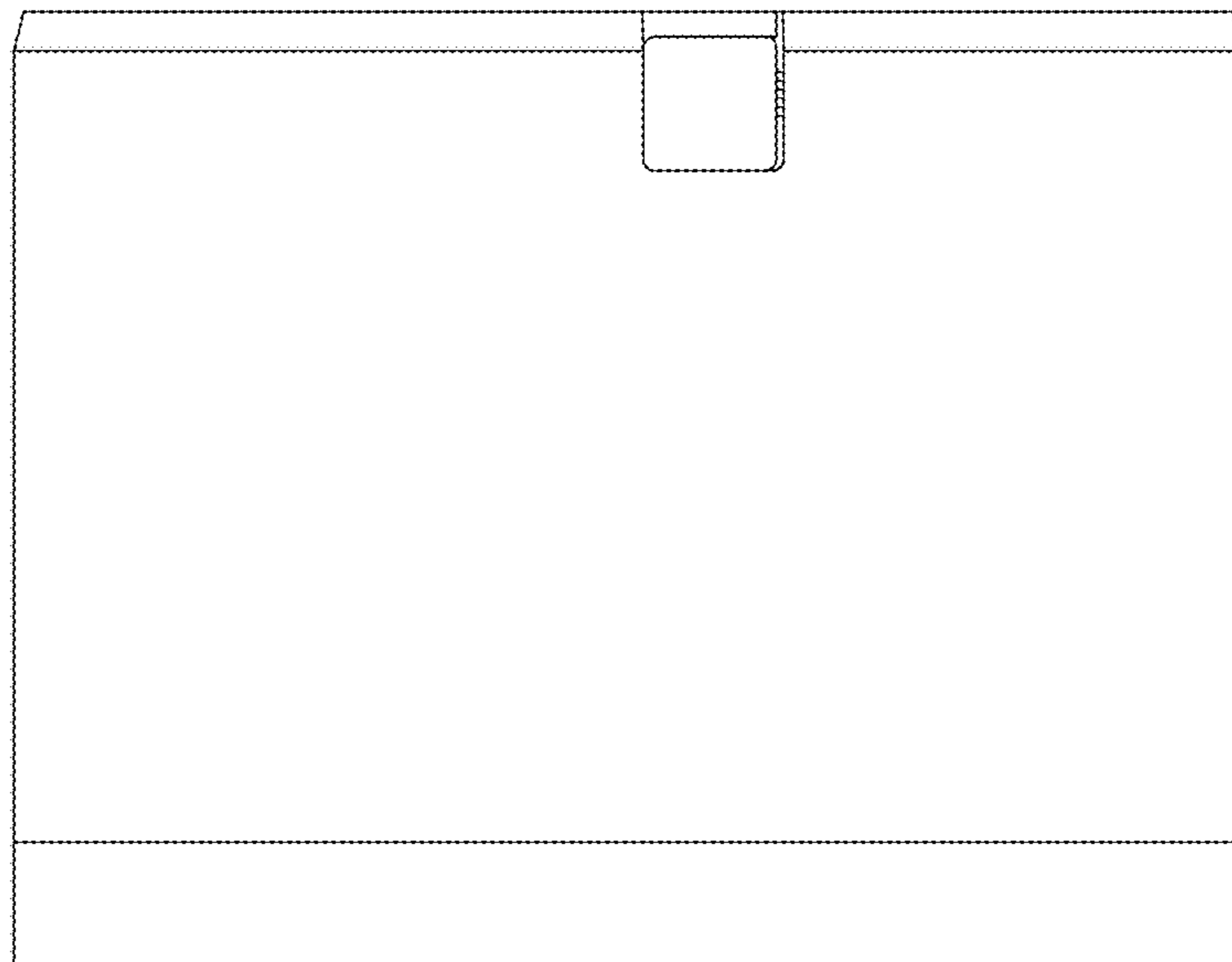


FIG. 7