



US00D951315S

(12) **United States Design Patent** (10) **Patent No.:** **US D951,315 S**
Streit et al. (45) **Date of Patent:** **** May 10, 2022**

(54) **CARTRIDGE FOR A PLASMA CUTTING TORCH**

D505,309 S * 5/2005 Brasseur D15/144
D511,663 S * 11/2005 Hewett D8/30
D524,336 S * 7/2006 Conway D15/144
D536,009 S * 1/2007 MacKenzie D15/144

(71) Applicant: **Hypertherm, Inc.**, Hanover, NH (US)

(Continued)

(72) Inventors: **Eric Streit**, Lebanon, NH (US); **Jeff Ortakales**, Bow, NH (US); **Yu Zhang**, Hanover, NH (US)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **Hypertherm, Inc.**, Hanover, NH (US)

CN 1087204 C 7/2002
CN 302579554 S 9/2013

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/796,961**

Theia Plasma, Theia Plasma | Retaining cap 56811 56255 40Amp, (first available Jan. 22, 2021), Amazon.com, URL:<<https://www.amazon.com/Theia-Plasma-Retaining-compatible-Titanium/dp/B08Y7XPQRQ>> (Year: 2021).*

(22) Filed: **Jun. 28, 2021**

(Continued)

Related U.S. Application Data

(62) Division of application No. 29/717,256, filed on Dec. 16, 2019, now Pat. No. Des. 936,716.

(51) **LOC (13) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/144; D8/30**

(58) **Field of Classification Search**
USPC D8/29.1, 30; D15/7-9, 144, 144.1, D15/144.2; D9/723, 724, 726
CPC B23K 9/00; B23K 10/00; B23K 10/02; B23K 28/02; B23K 9/10; B23K 9/06; B23K 9/32; B23K 37/0294

See application file for complete search history.

Primary Examiner — Calvin E Vansant

Assistant Examiner — Mark T. Philipps

(74) *Attorney, Agent, or Firm* — Proskauer Rose LLP J

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,661,150 A * 2/1928 Birkenmaier B05B 7/1218 239/117
5,208,448 A 5/1993 Everett
D365,345 S 12/1995 Carkhuff
D379,577 S * 6/1997 Carkhuff D8/30
D407,726 S * 4/1999 Zigliotto D15/144
D414,788 S * 10/1999 Shintani D15/144
D446,231 S * 8/2001 Kuraoka D15/144

(57) **CLAIM**

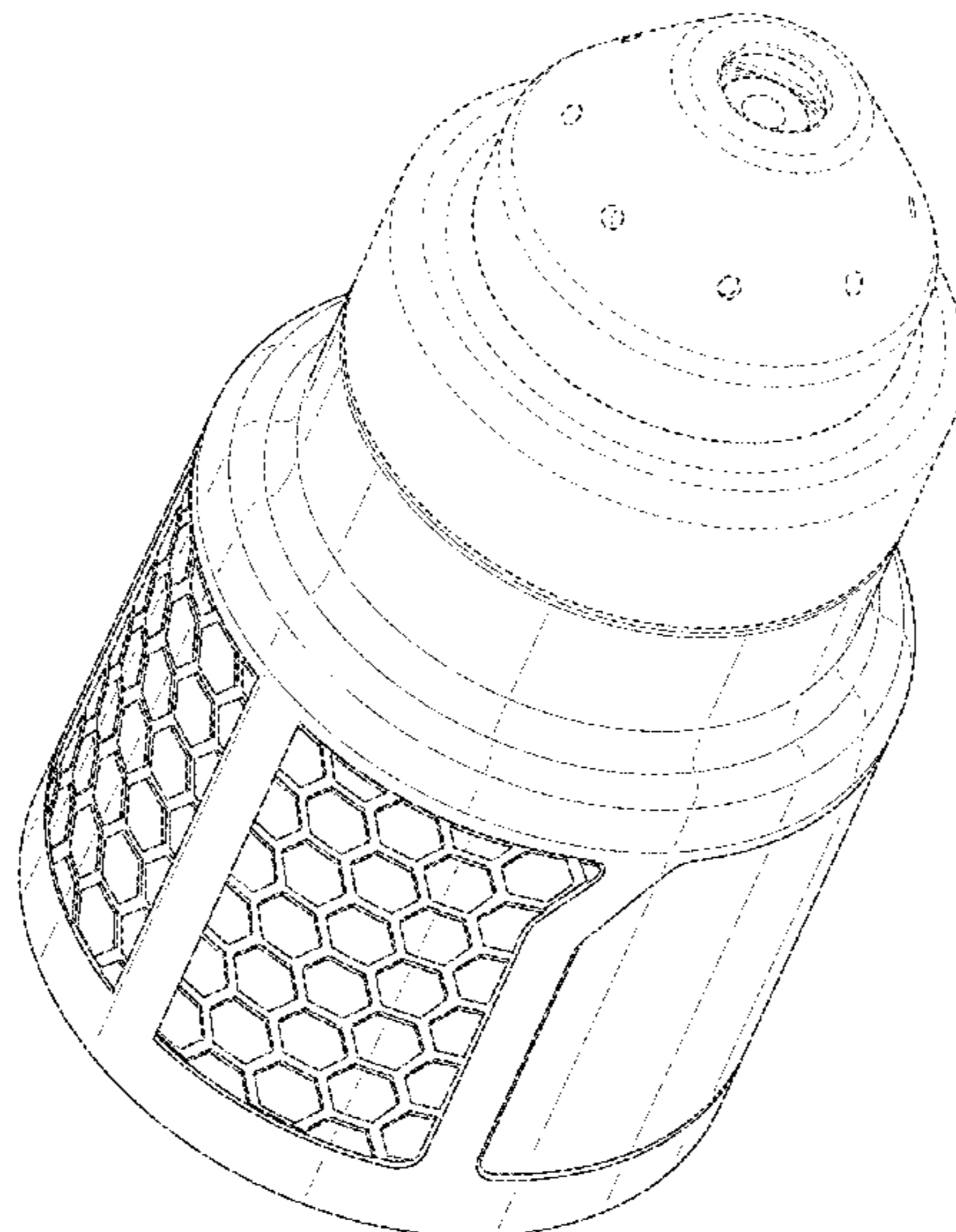
The ornamental design for a cartridge for a plasma cutting torch, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a cartridge for a plasma cutting torch;
FIG. 2 is a front view thereof;
FIG. 3 is a back view thereof;
FIG. 4 is a left view thereof;
FIG. 5 is a right view thereof;
FIG. 6 is a top view thereof; and,
FIG. 7 is a bottom view thereof.

The broken lines depict portions of the cartridge for a plasma cutting torch that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D582,449 S * 12/2008 Yamaguchi D15/144
 D582,951 S 12/2008 Yamaguchi et al.
 7,598,473 B2 10/2009 Cook et al.
 D632,186 S * 2/2011 Fischer D9/726
 D636,002 S 4/2011 Bruckner et al.
 D653,270 S * 1/2012 Furujo D15/144
 D654,104 S 2/2012 Fitzpatrick et al.
 D681,706 S * 5/2013 Savill, Jr. D15/144
 8,884,179 B2 11/2014 Roberts et al.
 D744,561 S * 12/2015 Hassan D15/144
 D744,562 S * 12/2015 Hassan D15/144
 D744,563 S * 12/2015 Hassan D15/144
 D744,564 S * 12/2015 Hassan D15/144
 D775,249 S * 12/2016 Furujo D15/144
 D776,177 S * 1/2017 Namburu D15/144
 D776,730 S * 1/2017 Yamaguchi D15/144
 D776,731 S * 1/2017 Yamaguchi D15/144
 9,662,747 B2 5/2017 Darrow et al.
 D798,351 S * 9/2017 Whited D15/144
 9,981,335 B2 * 5/2018 Sanders H05H 1/34
 D831,484 S * 10/2018 Jung D9/447
 10,278,274 B2 * 4/2019 Sanders B23K 9/285
 10,456,855 B2 * 10/2019 Sanders B23K 10/006
 10,462,891 B2 10/2019 Zhang et al.
 2006/0289398 A1 12/2006 Cook et al.
 2007/0262060 A1 11/2007 Roberts et al.
 2010/0018954 A1 1/2010 Hussary et al.
 2015/0319835 A1 11/2015 Sanders et al.
 2015/0319836 A1 * 11/2015 Sanders B23K 10/006
 2017/0295637 A1 * 10/2017 Peters B23K 10/006
 2018/0250765 A1 9/2018 Sanders et al.
 2018/0257164 A1 9/2018 Zhang et al.

FOREIGN PATENT DOCUMENTS

CN 302760790 S 3/2014
 EP 2537399 B1 12/2012
 JP 1226531 S 12/2004
 JP 1226751 S 12/2004
 JP 1346185 S 12/2008
 JP 1332318 S 6/2009
 TW 1281423 5/2007
 WO WO-199621339 A1 7/1996
 WO WO-2017024155 A1 2/2017
 WO WO-2017196439 A1 11/2017

OTHER PUBLICATIONS

Hypertherm, "Acceptable vs. non-acceptable consumable wear—retaining caps", (blog posted on Jul. 8, 2014), Hypertherm.com website, URL:<<https://www.hypertherm.com/en-US/learn/spark-the-blog/acceptable-vs.-non-acceptable-consumable-wear---retaining-caps/>> (Year: 2014).*

C9—8237 Thermal Dynamics SL60/SL100 -A120 Shield Cup Pac Original ASIN B01764S6SA (https://www.amazon.com/Thermal-Dynamics-SL60-SL100-Original/dp/B01764S6SNref=sr_1_1?dchild=1&keywords=ASIN+II-B01764S6SA&qid=1619530830&sr=8-1) Oct. 26, 2015.

Replacement Start Cartridge Thermal Dynamics 9-8213 ASIN B002AHS8LO (https://www.amazon.com/Thermal-Dynamics-9-8213-Replacement-Cartridge/dp/B002AHS8LO/ref=sr_1_1?dchild=1&keywords=asin+11-b002ahs8lo&qid=1619530650&sr=8-1) May 19, 2009.

RX WELD 23pcs Plasma ASIN B07RBJY1KX (https://www.amazon.com/RX-WELD-Accessory-Electrodes-Consumables/dp/B07RBJY1KX/ref=sr_1_2?dchild=1&keywords=ASIN+B07RBJY1KX&qid=1619530975&sr=8-2) Apr. 25, 2019.

* cited by examiner

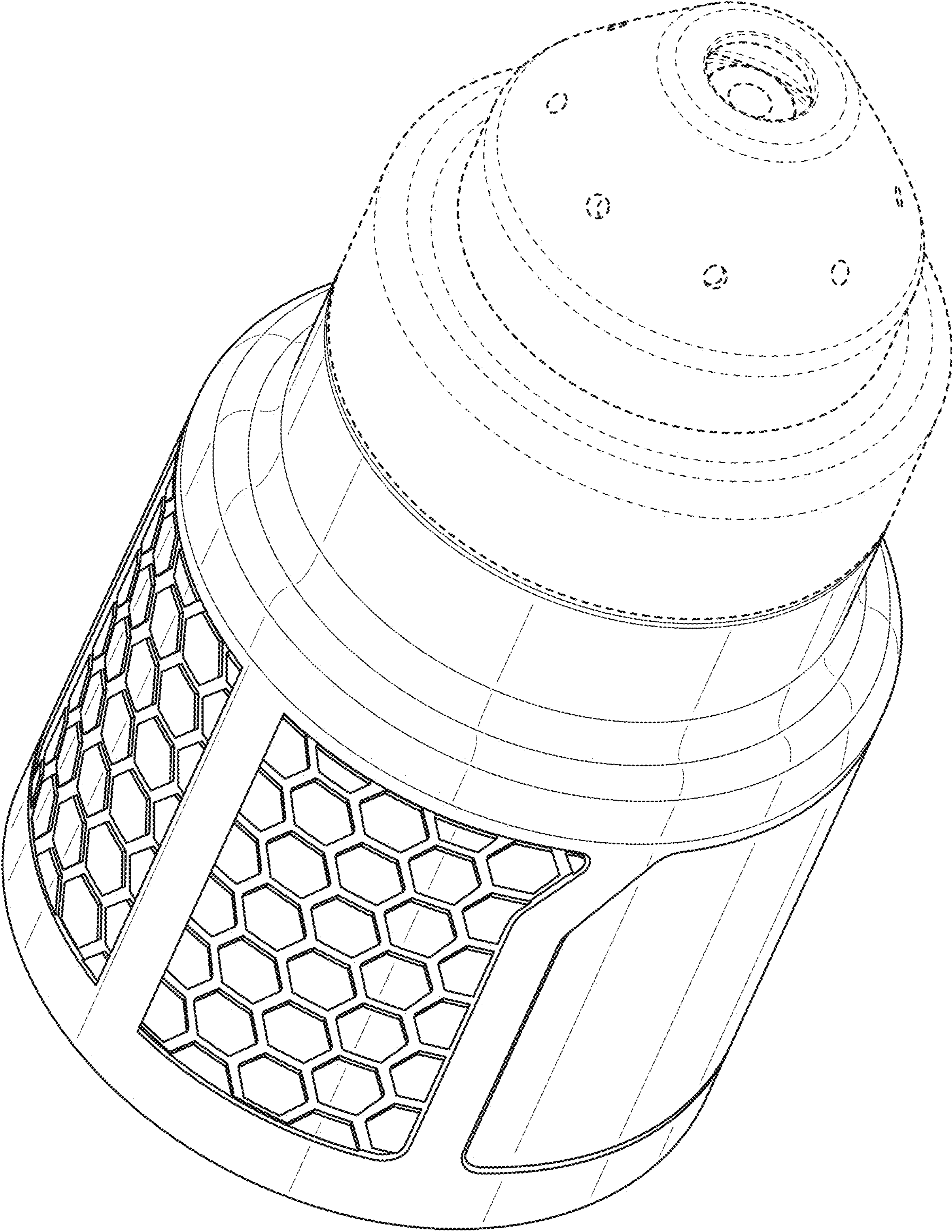


FIG. 1

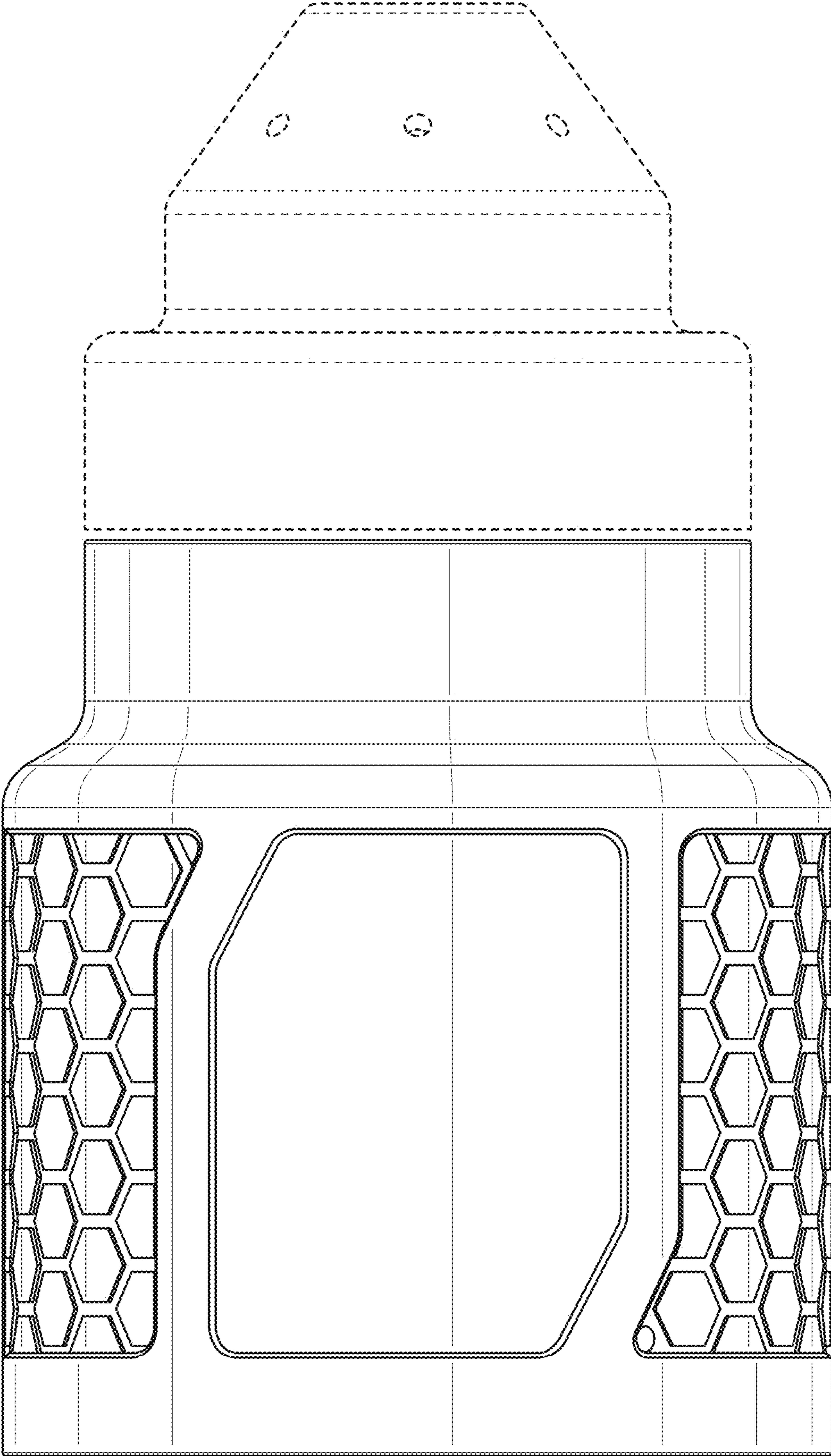


FIG. 2

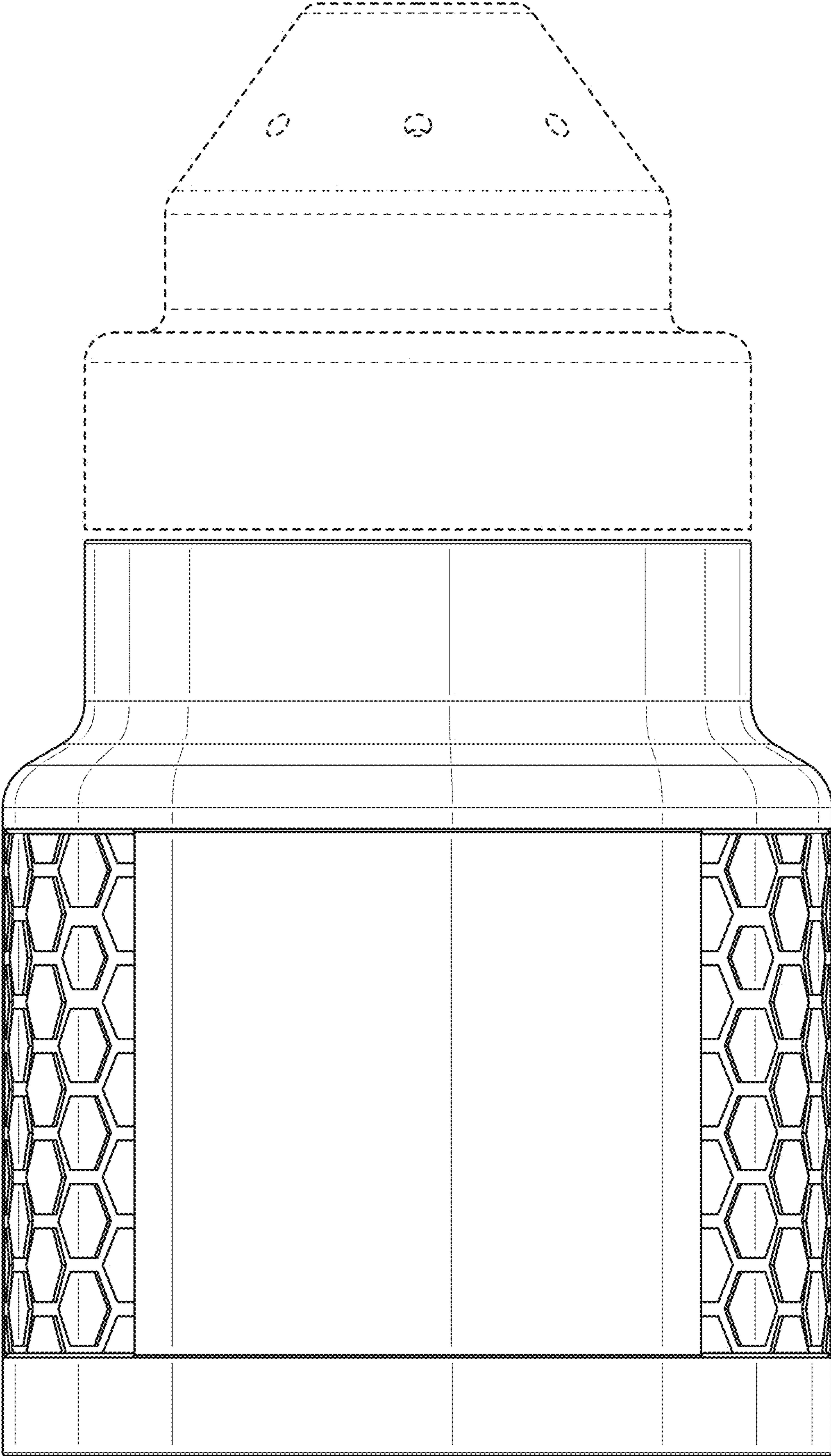


FIG. 3

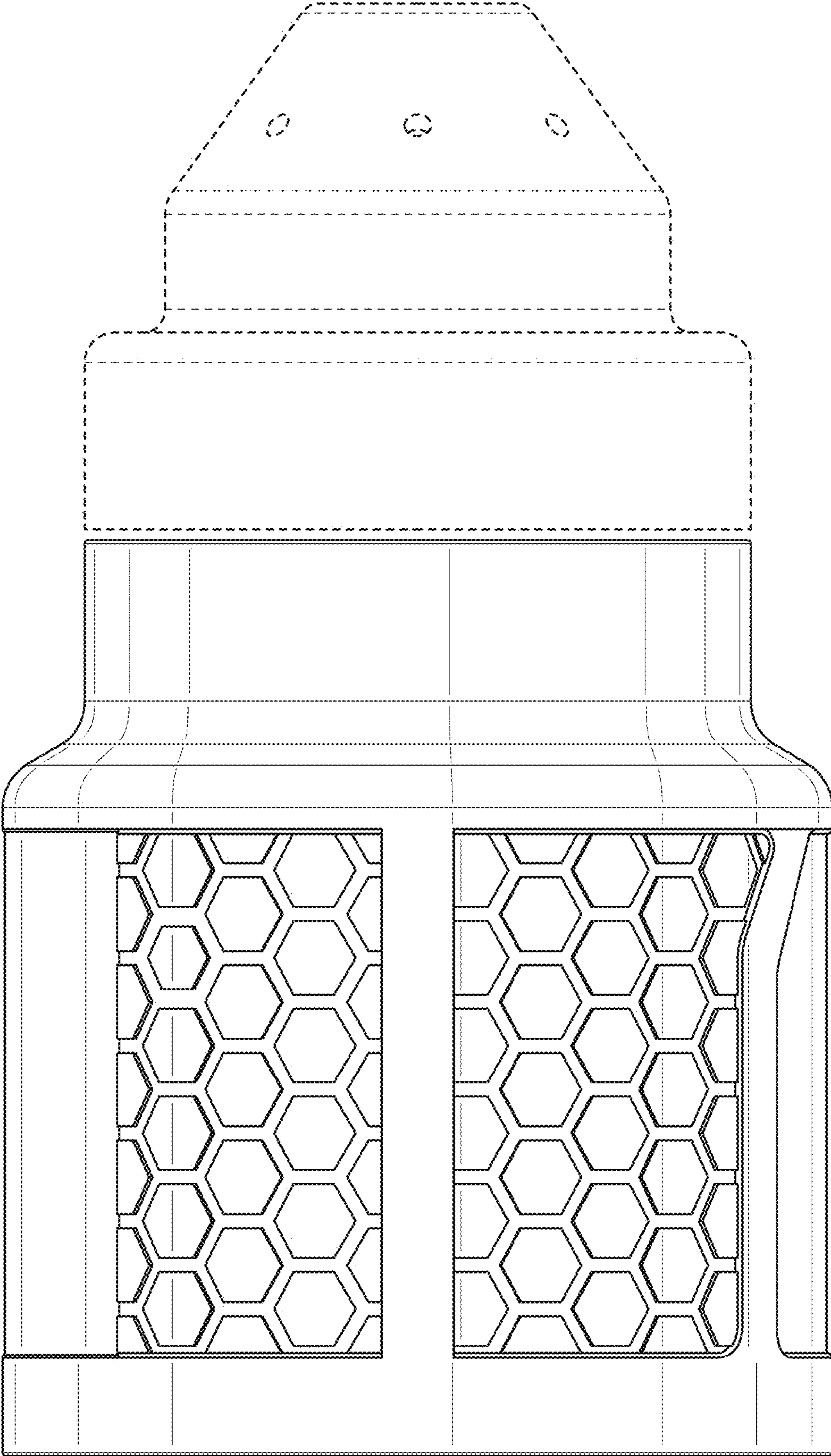


FIG. 4

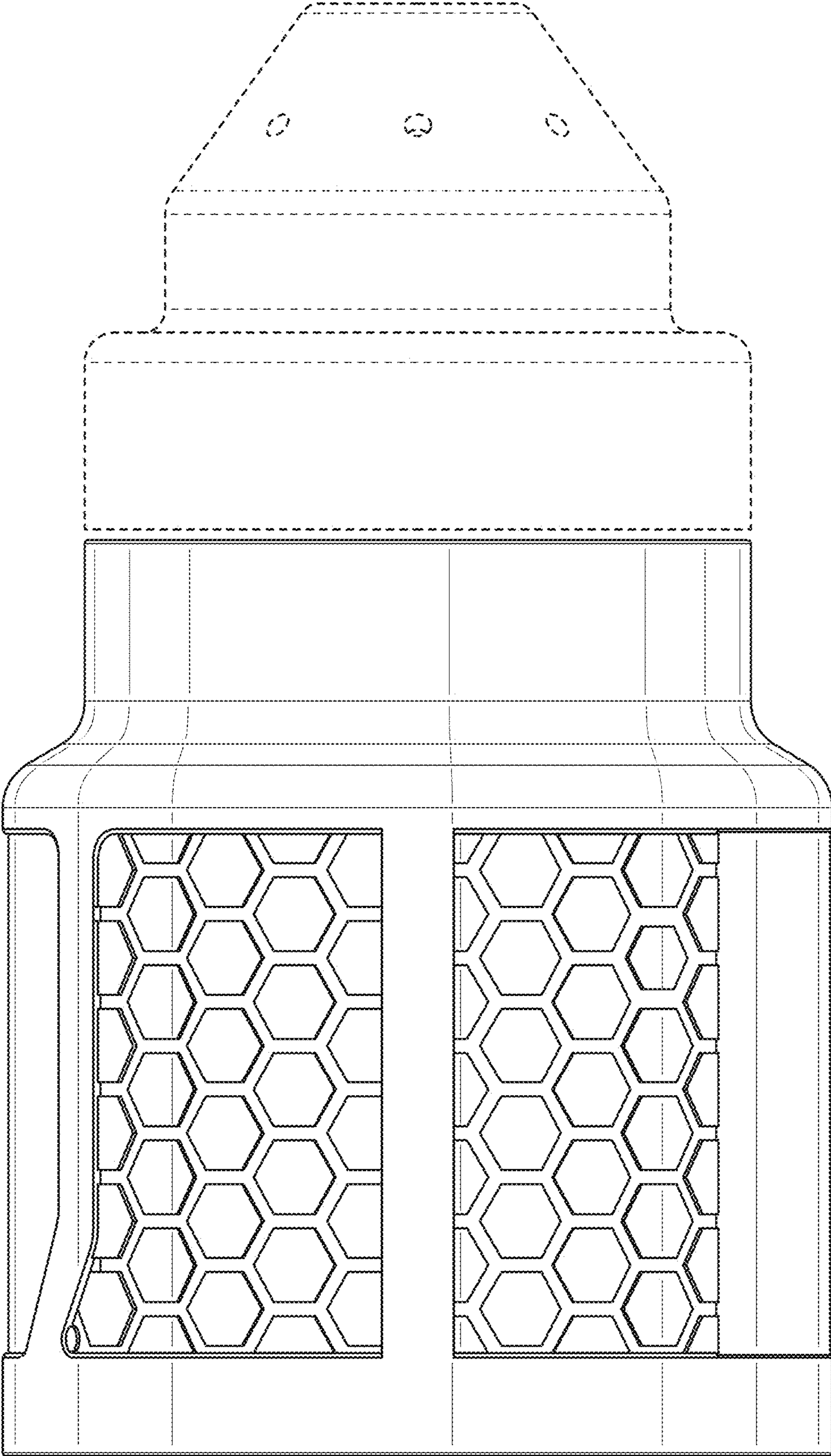


FIG. 5

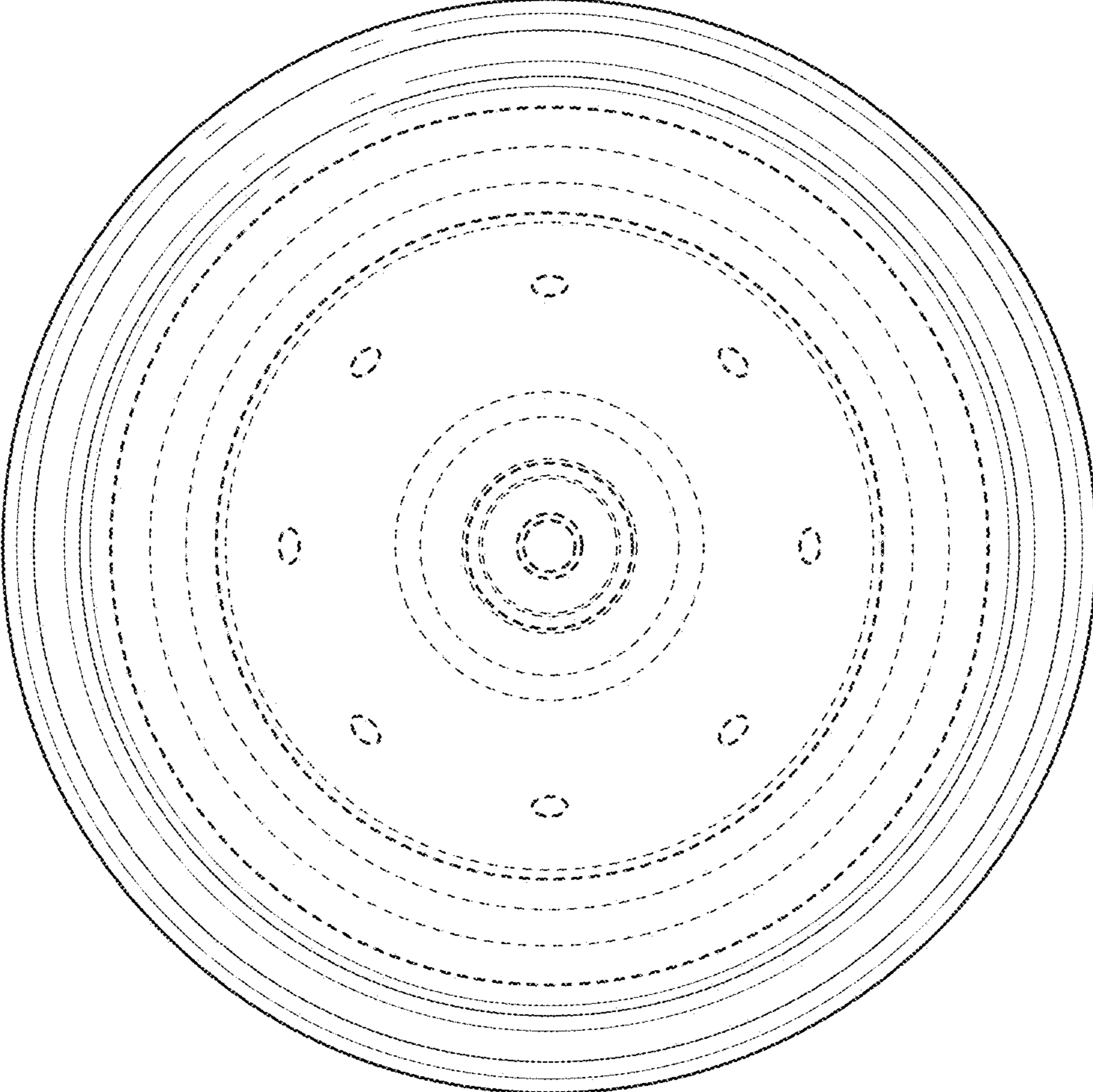


FIG. 6

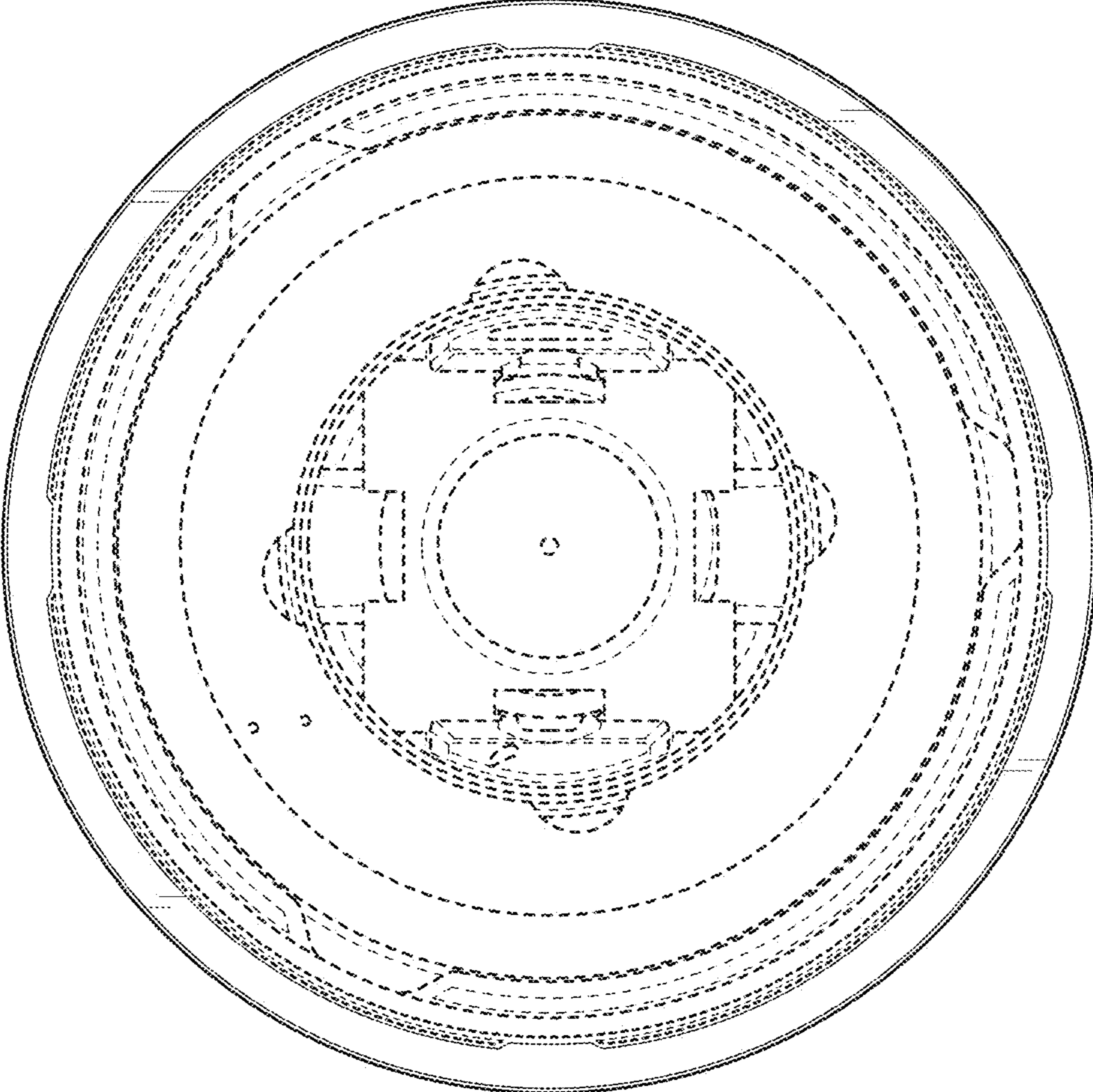


FIG. 7