



US00D973174S

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

(10) **Patent No.:** **US D973,174 S**  
(45) **Date of Patent:** **\*\* Dec. 20, 2022**

(54) **WATER PURIFIER**

(71) Applicant: **YUNDA H&H TECH (Tianjin) CO., LTD.**, Tianjin (CN)

(72) Inventors: **Enyu Wei**, Tianjin (CN); **Yinping Yuan**, Tianjin (CN); **Hao Xu**, Tianjin (CN)

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

(21) Appl. No.: **29/795,147**

(22) Filed: **Jun. 17, 2021**

(30) **Foreign Application Priority Data**

May 25, 2021 (CN) ..... 202130314132.2

(51) **LOC (13) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/207**

(58) **Field of Classification Search**  
USPC ..... D23/207, 208, 209, 355, 362, 363, 364, D23/365, 366; D7/306, 307, 311, 312  
CPC ..... B01D 27/00; B01D 27/08; B01D 35/306; B01D 35/34; B01D 61/08; B01D 61/081; B01D 2201/29; B01D 2201/291; B01D 2201/4015; B01D 2221/02; C02F 1/003; C02F 9/005; C02F 2307/10

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,131,277 A \* 7/1992 Birdsong ..... B01D 61/10 210/97  
5,824,215 A \* 10/1998 Suh ..... B01D 61/08 210/259  
D607,683 S \* 1/2010 Choi ..... D7/311  
7,909,999 B2 \* 3/2011 Noh ..... B01D 35/153 210/236  
D643,507 S \* 8/2011 Lee ..... D23/207

D678,979 S \* 3/2013 Liu ..... D23/207  
D682,387 S \* 5/2013 Tseng ..... D23/207  
D692,525 S \* 10/2013 Tseng ..... D23/207  
D718,417 S \* 11/2014 Harris ..... D23/209  
D741,982 S \* 10/2015 Maeng ..... D23/207  
D825,027 S \* 8/2018 He ..... D23/207  
D880,654 S \* 4/2020 Sheng ..... D23/209  
D892,266 S \* 8/2020 Zou ..... D23/209  
D910,143 S \* 2/2021 Cho ..... D23/207  
D933,156 S \* 10/2021 Cao ..... D23/207  
D947,987 S \* 4/2022 Du ..... D23/207  
2008/0041777 A1 \* 2/2008 Lee ..... C02F 9/005 210/232  
2009/0289003 A1 \* 11/2009 Tsai ..... C02F 9/005 210/232

(Continued)

**OTHER PUBLICATIONS**

Waterdrop G3 Reverse Osmosis System, Feb. 20, 2019, Amazon, site visited Sep. 16, 2022: <https://www.amazon.com/dp/B07P1XFYJP/> (Year: 2019).\*

(Continued)

*Primary Examiner* — Jack Reickel  
*Assistant Examiner* — Bobby W Jones, II

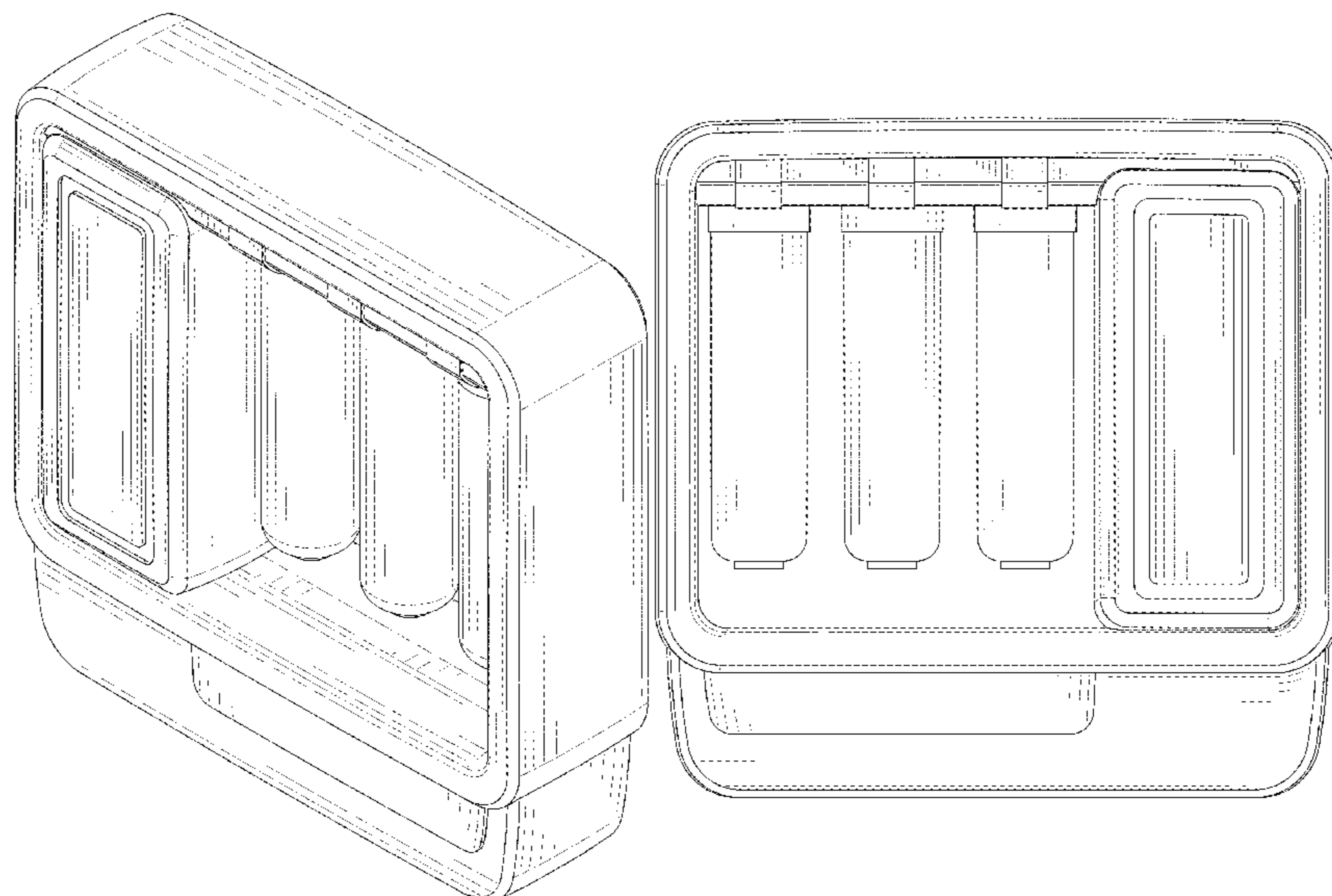
(57) **CLAIM**

The ornamental design for a water purifier, as shown and described.

**DESCRIPTION**

FIG. 1 is a front and top perspective view of a water purifier, showing our new design;  
FIG. 2 is a rear and bottom perspective view thereof;  
FIG. 3 is a front elevation view thereof;  
FIG. 4 is a rear elevation view thereof;  
FIG. 5 is a left side elevation view thereof;  
FIG. 6 is a right side elevation view thereof;  
FIG. 7 is a top plan view thereof; and,  
FIG. 8 is a bottom plan view thereof.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2015/0251922 A1\* 9/2015 Schuster ..... B01D 29/50  
210/323.1  
2017/0259211 A1\* 9/2017 Lin ..... B01D 39/2055  
2019/0256392 A1\* 8/2019 Chen ..... C02F 9/005  
2020/0339438 A1\* 10/2020 Lautzenheiser ..... C02F 1/32  
2021/0024382 A1\* 1/2021 Tally ..... B01D 61/12

OTHER PUBLICATIONS

Pro-Aqua Elite Whole House Water Filter, Nov. 5, 2019, Amazon, site visited Sep. 16, 2022: <https://www.amazon.com/dp/B081297NP1/> (Year: 2019).\*

3-Stage 20 Whole House Big Housings Filtration System, Sep. 4, 2019, Amazon, site visited Sep. 16, 2022: <https://www.amazon.com/dp/B07XG25NCC/> (Year: 2019).\*

Vortopt Reverse Osmosis Water Filtration System, Apr. 28, 2021, Amazon, site visited Sep. 16, 2022: <https://www.amazon.com/dp/B093PTSYQX/> (Year: 2021).\*

\* cited by examiner

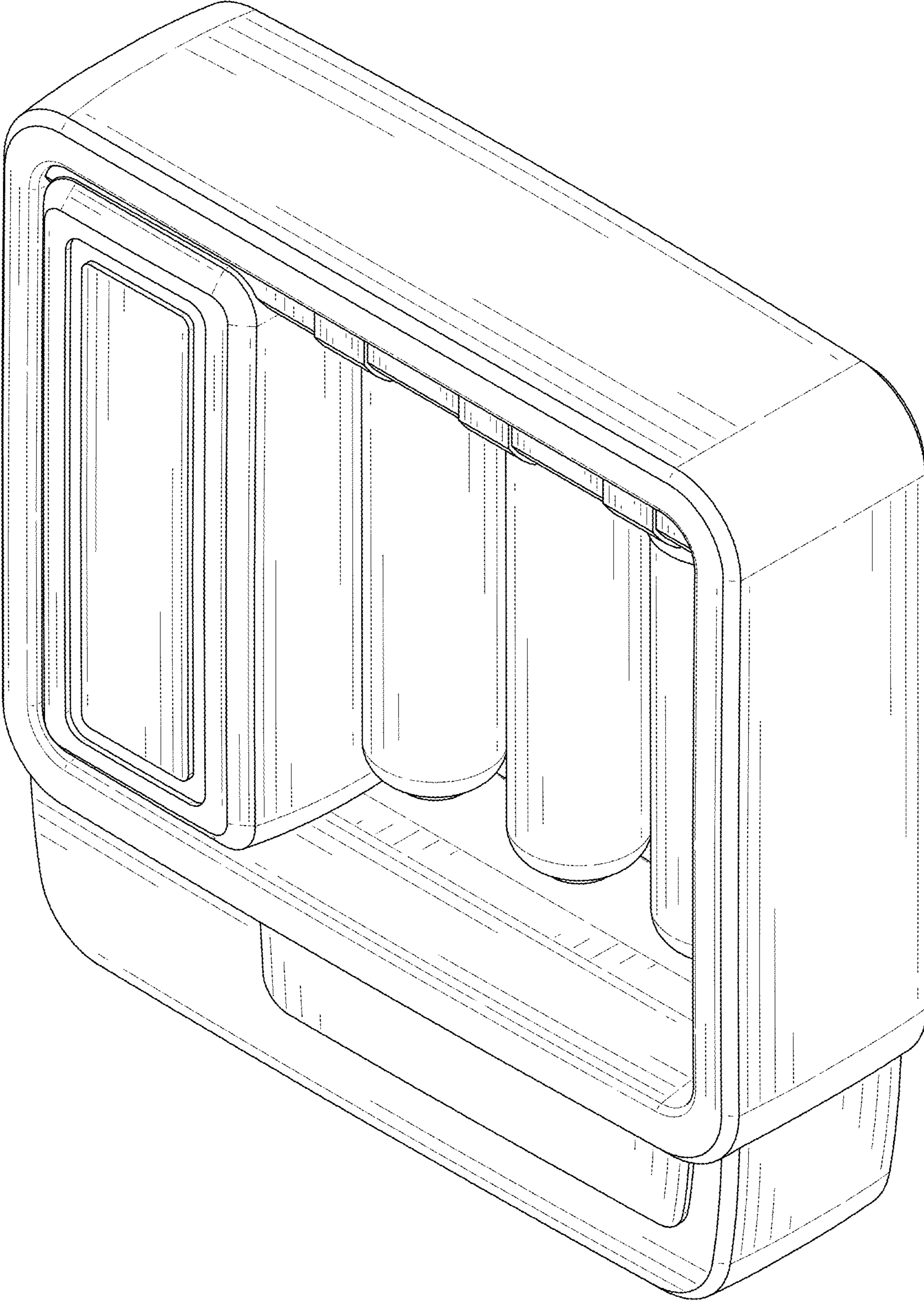


FIG. 1

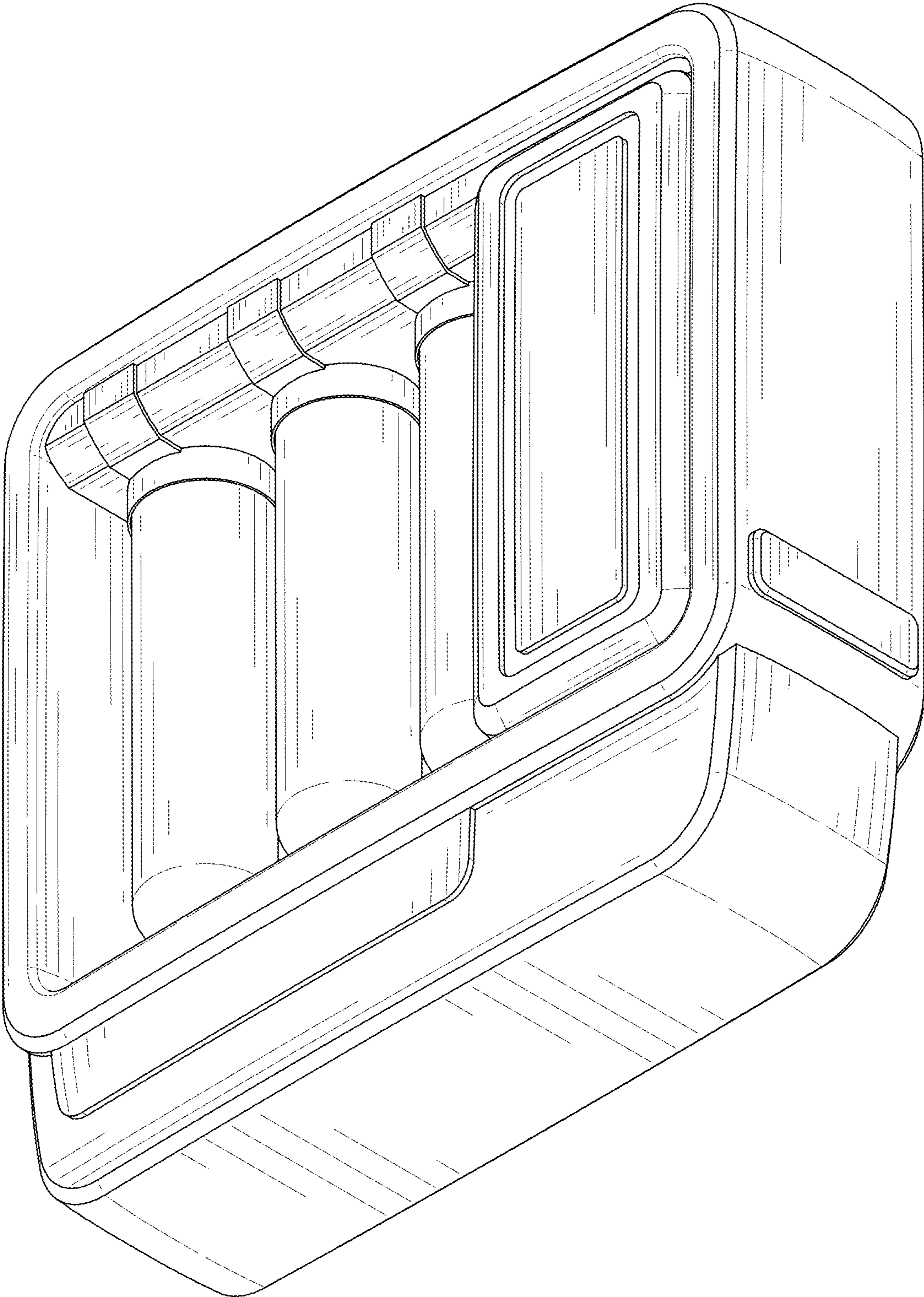


FIG. 2

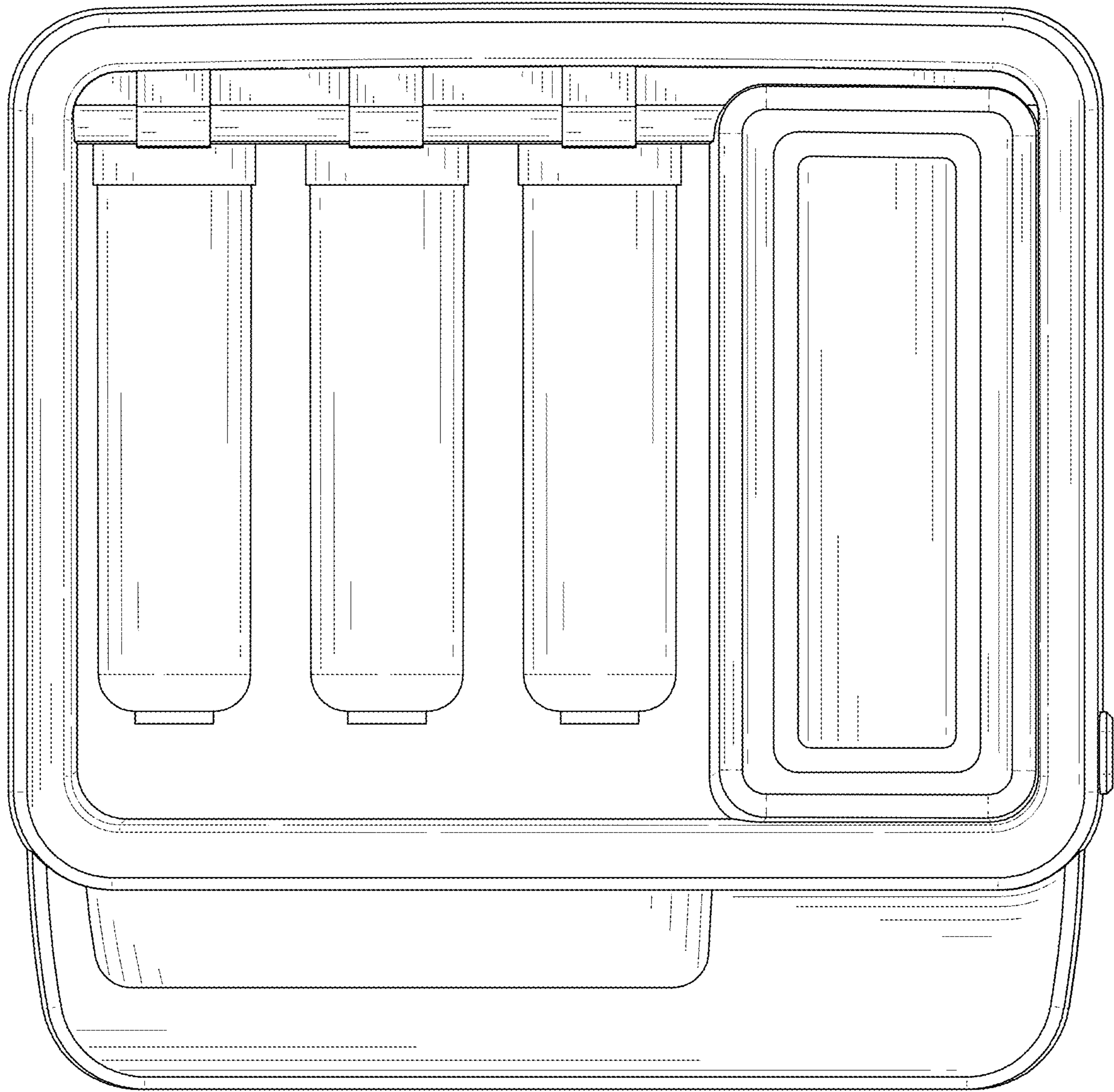


FIG. 3

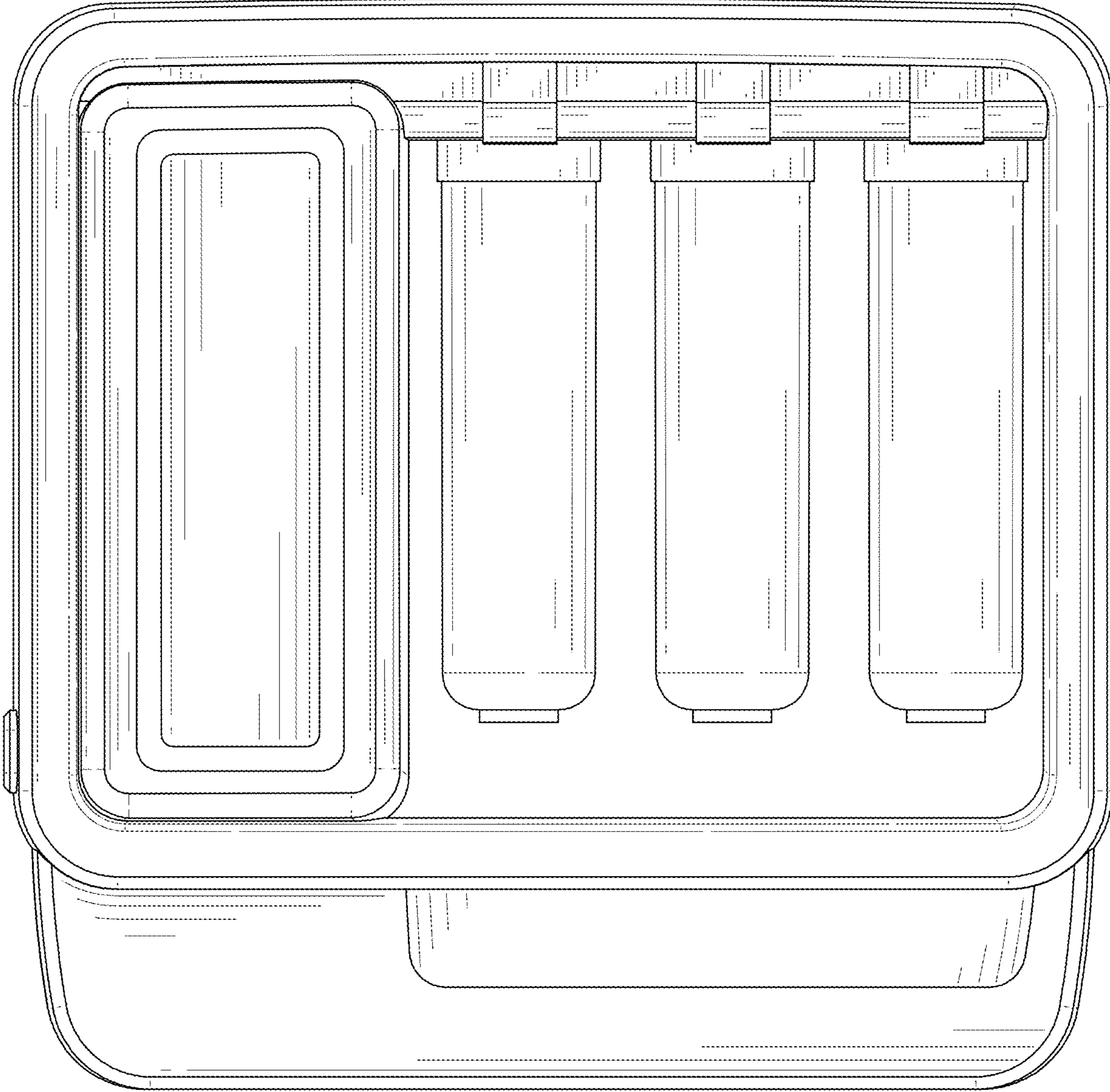


FIG. 4

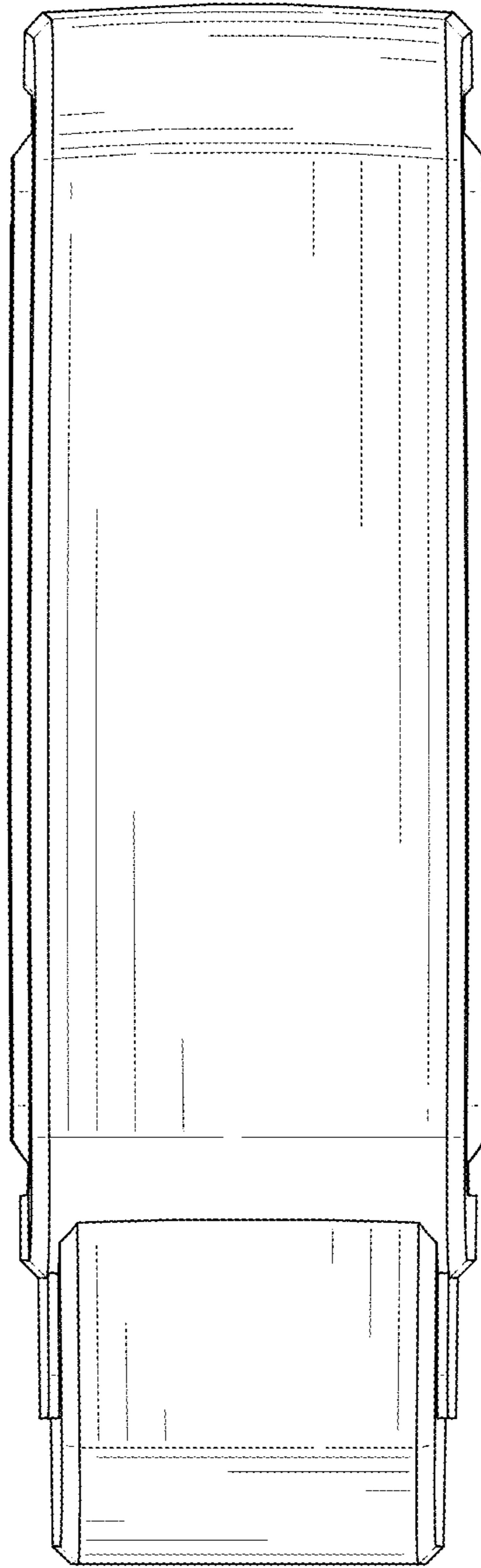


FIG. 5

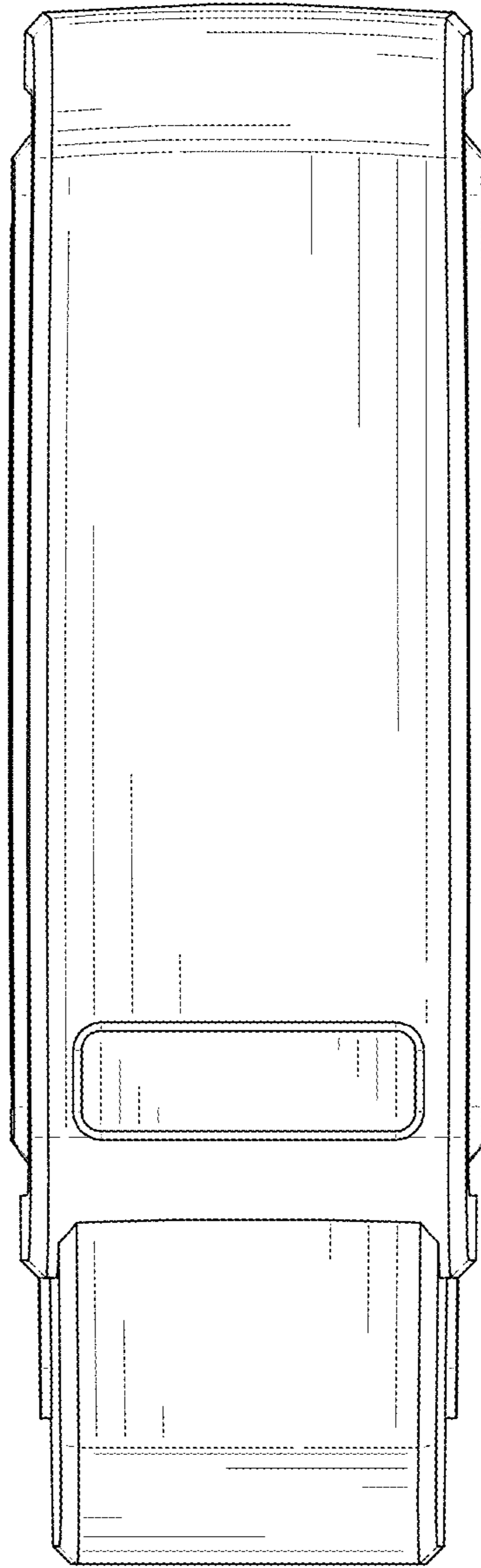


FIG. 6



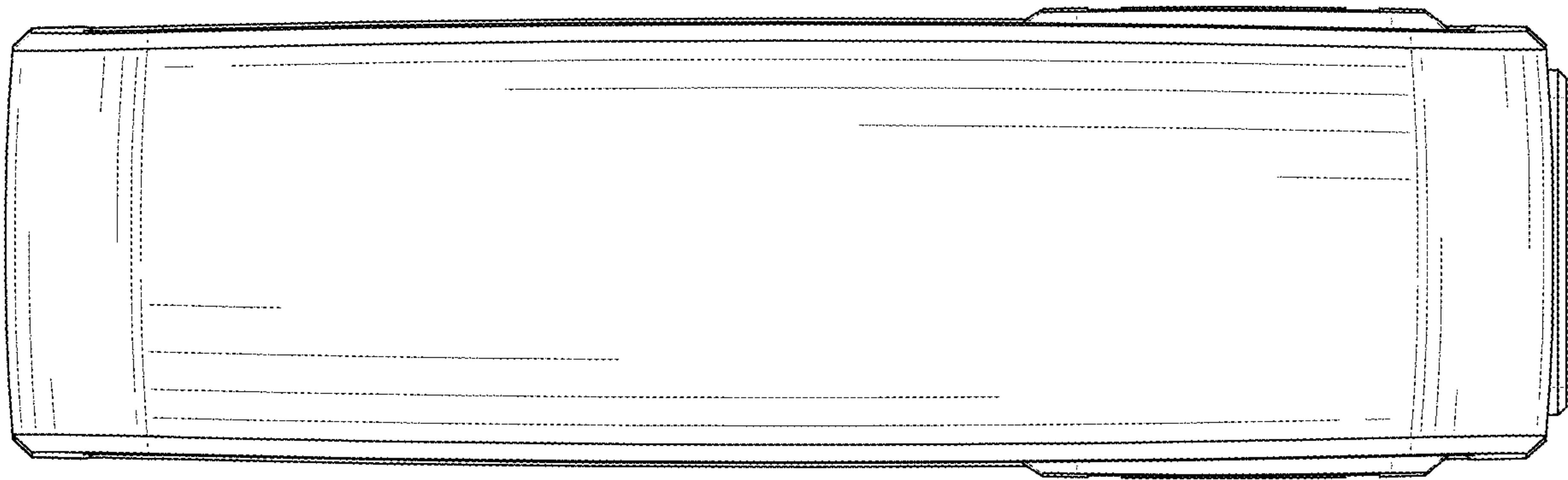


FIG. 7

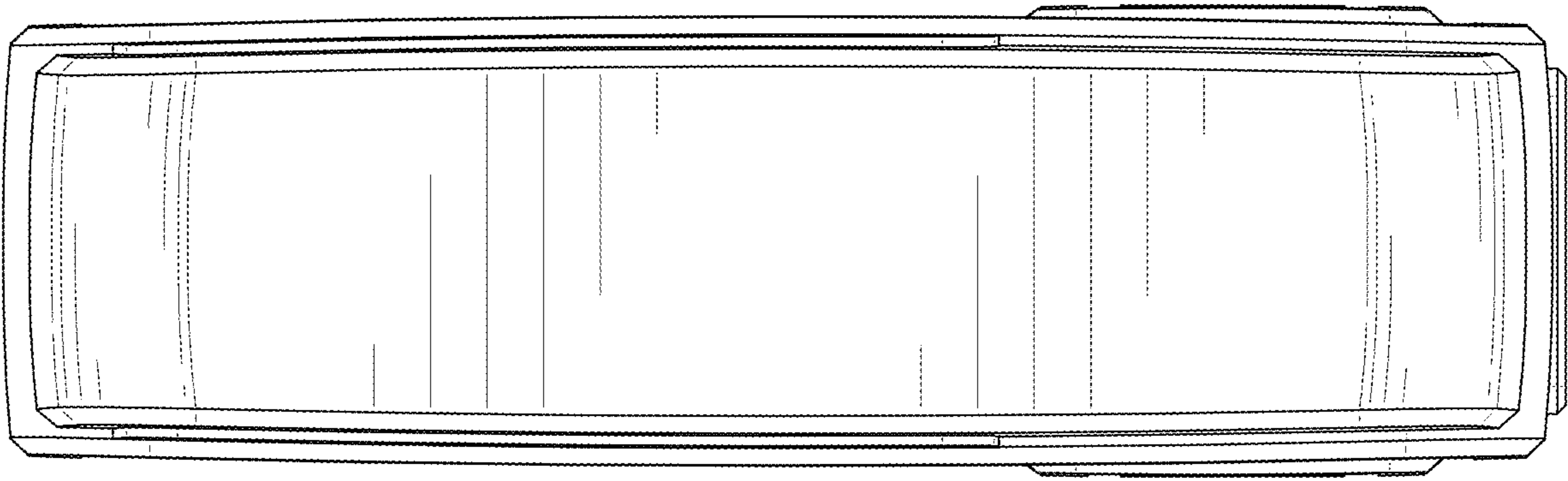


FIG. 8