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(12) **United States Design Patent** (10) **Patent No.:** **US D954,240 S**  
**Choi et al.** (45) **Date of Patent:** **\*\* Jun. 7, 2022**

(54) **AIR PURIFIER**  
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D323,210 S 1/1992 Wortham  
D324,419 S 3/1992 Kanazawa  
D361,373 S 8/1995 Muller  
D361,374 S 8/1995 Muller  
D374,279 S 10/1996 Chiu et al.  
D379,219 S 5/1997 Ellwood  
D379,220 S 5/1997 Ellewood  
D386,880 S \* 11/1997 Vaske ..... D6/300  
(Continued)

(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/697,040**  
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FOREIGN PATENT DOCUMENTS

AT 00010063-0001 2/1994  
AT 00010064-0001 2/1994  
(Continued)

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(52) **U.S. Cl.**  
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CPC .. A61L 9/16; A61L 9/22; B01D 47/00; B01D  
47/027; B01D 2221/02; B01D 2259/4508;  
B03C 3/155; B03C 3/368; F24F 3/16;  
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2001/0096

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D277,631 S \* 2/1985 Biome ..... D6/311  
D282,024 S \* 1/1986 Muranen ..... D6/300  
D305,929 S 2/1990 Ikeda et al.  
D307,936 S 5/1990 Hirano et al.

OTHER PUBLICATIONS

U.S. Appl. No. 29/419,584.  
(Continued)

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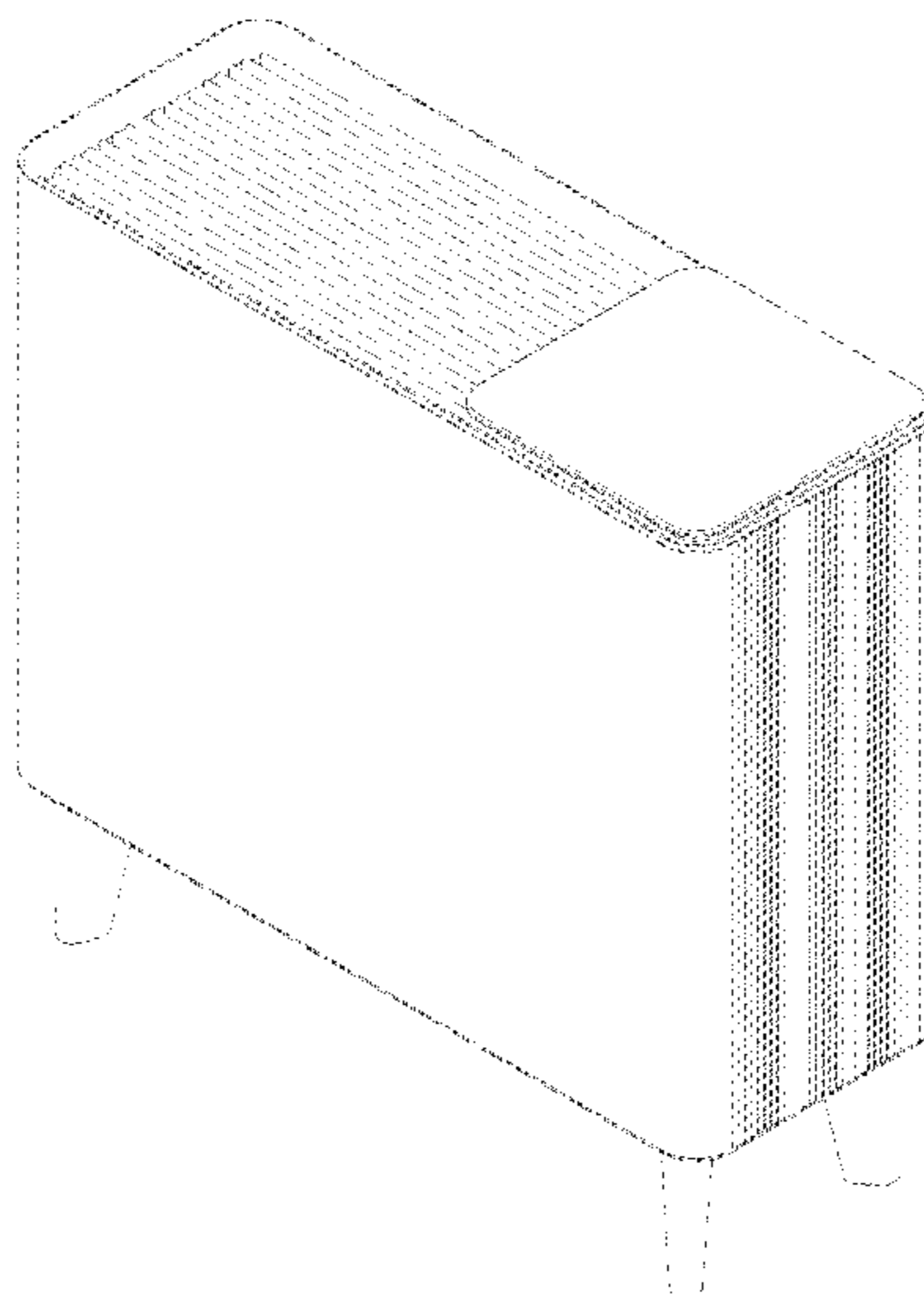
(57) **CLAIM**

The ornamental design for an air purifier, as shown and described.

**DESCRIPTION**

FIG. 1 illustrates a front perspective view of the air purifier showing our new design;  
FIG. 2 illustrates a front elevational view thereof;  
FIG. 3 illustrates a rear elevational view thereof;  
FIG. 4 illustrates a left side elevational view thereof;  
FIG. 5 illustrates a right side elevational view thereof;  
FIG. 6 illustrates a top plan view thereof; and,  
FIG. 7 illustrates a bottom plan view thereof.  
The broken lines shown throughout the views depict unclaimed portions of the design and form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D394,100 S 5/1998 Promseeda  
 D402,022 S 12/1998 Termeer et al.  
 D402,745 S 12/1998 Termeer et al.  
 D402,746 S 12/1998 Clark et al.  
 D411,880 S 7/1999 Cappadona et al.  
 D414,854 S 10/1999 Omaki et al.  
 D416,614 S 11/1999 Bellil et al.  
 D422,270 S 4/2000 Wong  
 D430,928 S 9/2000 Lafond et al.  
 D431,074 S 9/2000 Deros  
 D433,493 S 11/2000 Runyan et al.  
 D437,037 S 1/2001 Deros et al.  
 D440,292 S 4/2001 Kip  
 D444,634 S \* 7/2001 Dodson ..... D6/312  
 D450,825 S 11/2001 Nakamura et al.  
 D451,181 S 11/2001 Miwa  
 D451,182 S 11/2001 Tsuji  
 D468,820 S 1/2003 Smith et al.  
 D472,626 S 4/2003 Nakamura  
 D476,068 S 6/2003 Carey et al.  
 D488,854 S 4/2004 Stauffer  
 D489,800 S 5/2004 Tokunaga  
 D529,161 S 9/2006 De'Longhi  
 D545,691 S \* 7/2007 Bhavnani ..... D10/15  
 D573,704 S 7/2008 Chen  
 D585,536 S 1/2009 Wang  
 D597,188 S 7/2009 Chen  
 D600,819 S \* 9/2009 Walsh ..... D25/138  
 D601,353 S \* 10/2009 Sadler ..... D14/371  
 D601,687 S 10/2009 Chan  
 D603,496 S 11/2009 Murai et al.  
 D608,433 S 1/2010 Murai et al.  
 D609,018 S \* 2/2010 Tzeng ..... D6/308  
 D613,510 S \* 4/2010 Tzeng ..... D6/308  
 D625,838 S \* 10/2010 Walsh ..... D25/60  
 D635,655 S 4/2011 Chent et al.  
 D635,829 S \* 4/2011 Morrish ..... D7/624.1  
 D644,312 S 8/2011 Tsuji  
 D690,803 S 10/2013 Koivisto et al.  
 D750,209 S 2/2016 Satou  
 D760,883 S 7/2016 Mann  
 D783,793 S 4/2017 Satou et al.  
 D797,914 S 9/2017 Nygren et al.  
 D802,112 S 11/2017 Jeon et al.  
 D803,368 S 11/2017 Priester  
 D807,997 S 1/2018 Seo  
 D810,259 S 2/2018 You et al.  
 D810,906 S 2/2018 Yoon  
 D810,907 S 2/2018 Yoon  
 D819,797 S 6/2018 Mann  
 D834,165 S 11/2018 Maeng  
 D839,001 S \* 1/2019 Berrios ..... D6/311  
 D844,766 S 4/2019 Miao et al.  
 D860,425 S 9/2019 Lobdell et al.  
 D876,123 S \* 2/2020 Scorgie ..... D6/583  
 D891,124 S \* 7/2020 Zhou ..... D6/310  
 D891,790 S \* 8/2020 Liu ..... D6/301  
 D905,441 S \* 12/2020 Yang ..... D6/310

FOREIGN PATENT DOCUMENTS

AT 00010065-0001 2/1994  
 AT 00010066-0001 2/1994  
 AT 00037933-0001 12/1999  
 AT 00037934-0001 12/1999  
 AT 00037936-0001 12/1999  
 CN 302830701 S 5/2014  
 CN 302954277 S 10/2014  
 CN 302967982 S 10/2014  
 CN 303000885 S 11/2014  
 CN 304206664 S 7/2017  
 CN 304415863 S 7/2017  
 CN 304589581 S 4/2018  
 CN 304999491 S 1/2019  
 CN 305063406 S 3/2019

DE 9601057-0002 9/1996  
 DE 49601057-0001 9/1996  
 DE 49802066-0001 10/1998  
 DE 49802066-0002 10/1998  
 DE 49806837-0001 3/1999  
 DE 40005320-0001 9/2000  
 DE 40103977-0001 9/2001  
 DE 40107924-0002 1/2002  
 DE 40108734-0001 3/2002  
 EM 00055843-0002 11/2003  
 EM 00065305-0001 11/2003  
 EM 00065339-0001 11/2003  
 EM 00069554-0001 12/2003  
 EM 00087341-0001 1/2004  
 EM 00084413-0002 2/2004  
 EM 00211578-0001 10/2004  
 EM 00211578-0002 10/2004  
 EM 00215918-0001 10/2004  
 EM 00244009-0001 1/2005  
 EM 00244009-0002 1/2005  
 EM 00275698-0001 3/2005  
 EM 00351598-0001 8/2005  
 EM 00351598-0002 8/2005  
 EM 00351598-0003 8/2005  
 EM 00485255-0001 3/2006  
 EM 00485255-0002 3/2006  
 EM 00480991-0001 4/2006  
 EM 00480991-0002 4/2006  
 EM 00769732-0002 1/2008  
 EM 00800842-0002 1/2008  
 EM 00887849-0002 4/2008  
 EM 00887849-0003 4/2008  
 EM 00887849-0004 4/2008  
 EM 00887849-0005 4/2008  
 EM 00887849-0006 4/2008  
 EM 00887849-0007 4/2008  
 EM 00887849-0008 4/2008  
 EM 00887849-0009 4/2008  
 EM 00887849-0010 4/2008  
 EM 00899653-0001 4/2008  
 EM 00896881-0002 5/2008  
 EM 01112817-0004 6/2009  
 EM 01658998-0001 1/2010  
 EM 01201743-0001 3/2010  
 EM 01204606-0006 4/2010  
 EM 01306310-0001 1/2012  
 EM 01339337-0001 8/2012  
 EM 02532887-0001 9/2014  
 EM 02532887-0002 9/2014  
 EM 02532887-0003 9/2014  
 EM 04069383-0001 6/2017  
 EM 04120913-0002 7/2017  
 EM 06592630-0001 6/2019  
 EM 06592630-0002 6/2019  
 EM 06607412-0001 7/2019  
 GB 02068280-0001 11/1997  
 GB 02072118-0001 5/1998  
 GB 02072119-0001 5/1998  
 GB 02072341-0001 5/1998  
 GB 02072633-0001 6/1998  
 GB 02072634-0001 6/1998  
 GB 02075642-0001 9/1998  
 GB 02092977-0001 5/2000  
 GB 02095188-0001 9/2000  
 GB 02104445-0001 6/2002  
 GB 03008197-0001 11/2002  
 GB 03008198-0001 11/2002  
 IR 00092057-0001 1/2017  
 IR 00092057-0002 1/2017  
 IR 00092057-0004 1/2017  
 JP 1277724 10/2005  
 JP 1281699 8/2006  
 JP 1349314 12/2008  
 JP 1380668 1/2010  
 JP 1392539 9/2011  
 JP 1425295 9/2011  
 KR 3004387970000 1/2007  
 KR 3006265910000 12/2011  
 KR 3006971120000 5/2013

(56)

**References Cited**

FOREIGN PATENT DOCUMENTS

KR	3007477840000	6/2014
KR	3010105040000	6/2019
KR	3010158140000	7/2019

OTHER PUBLICATIONS

U.S. Appl. No. 29/502,181.  
U.S. Appl. No. 29/124,239.  
U.S. Appl. No. 29/511,691.  
U.S. Appl. No. 29/351,644.

\* cited by examiner

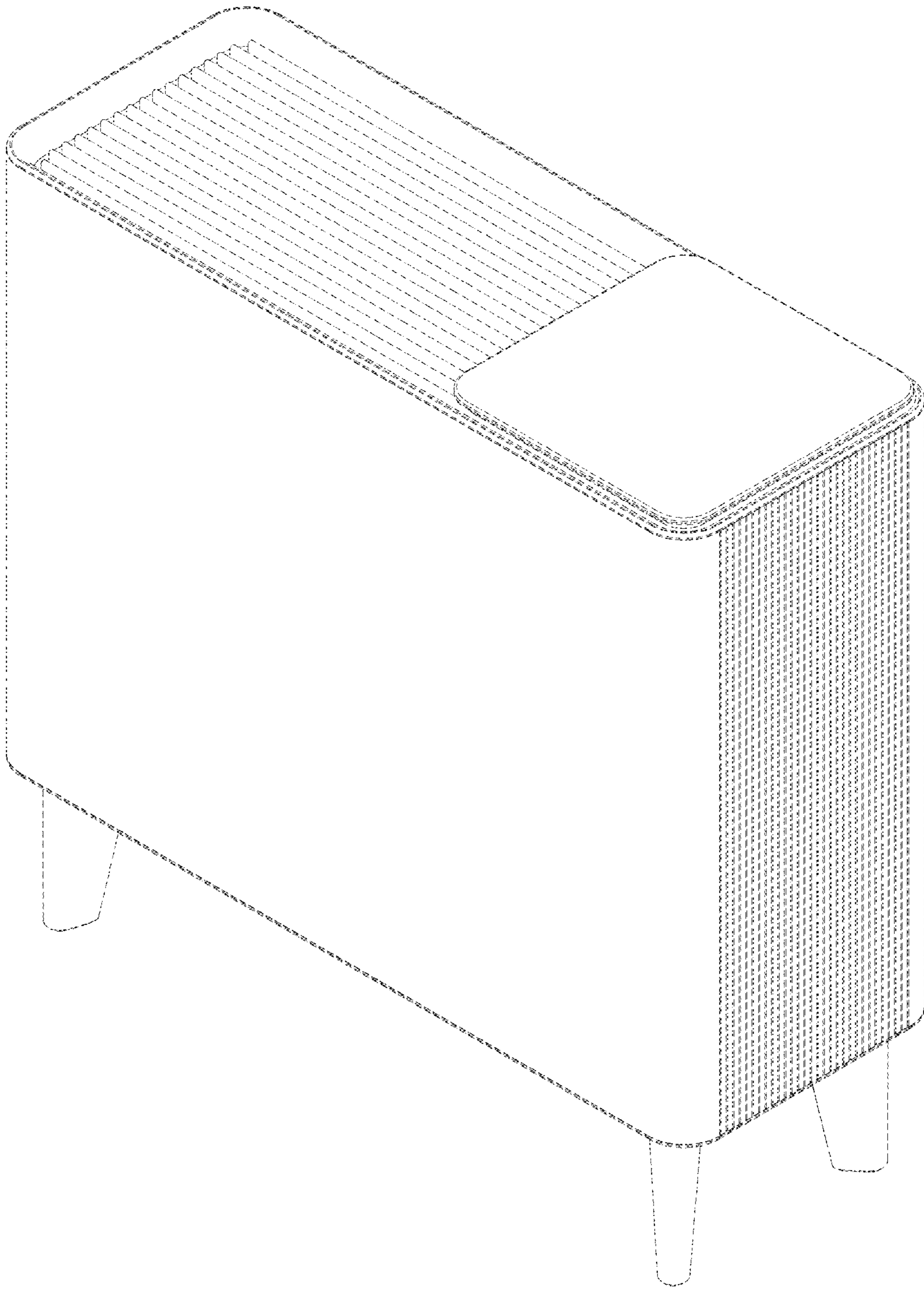


FIG. 1

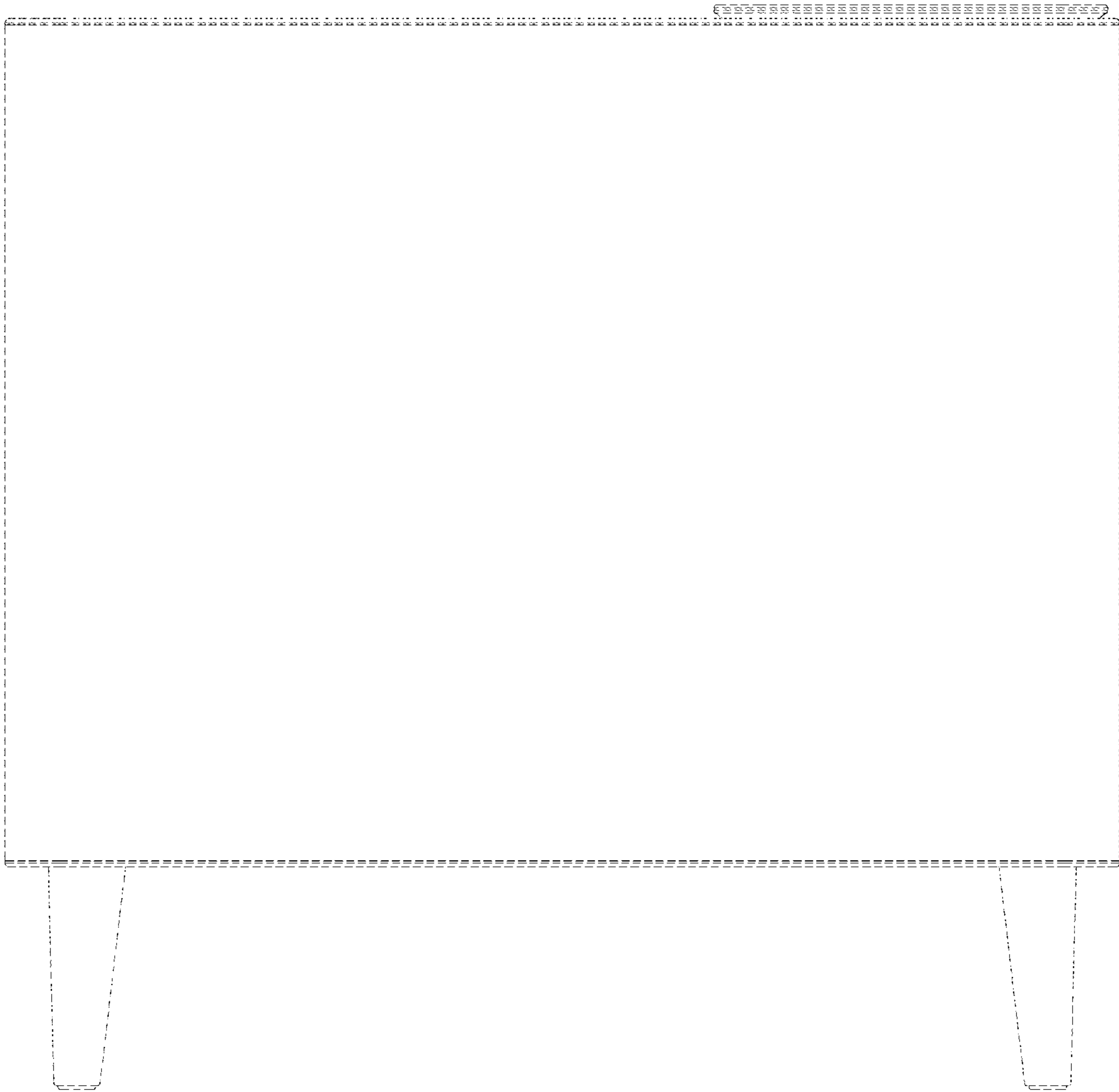


FIG. 2

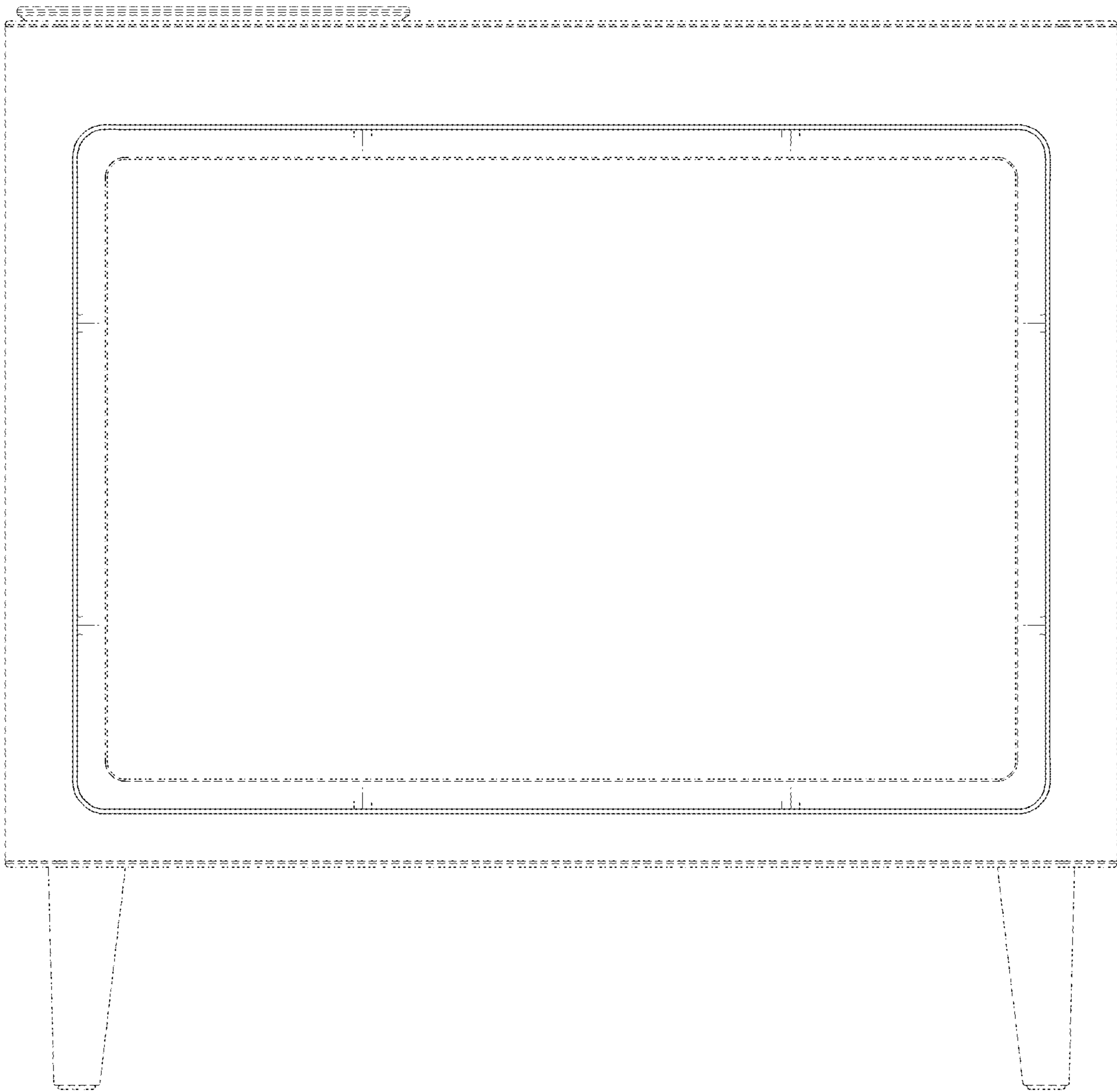


FIG. 3

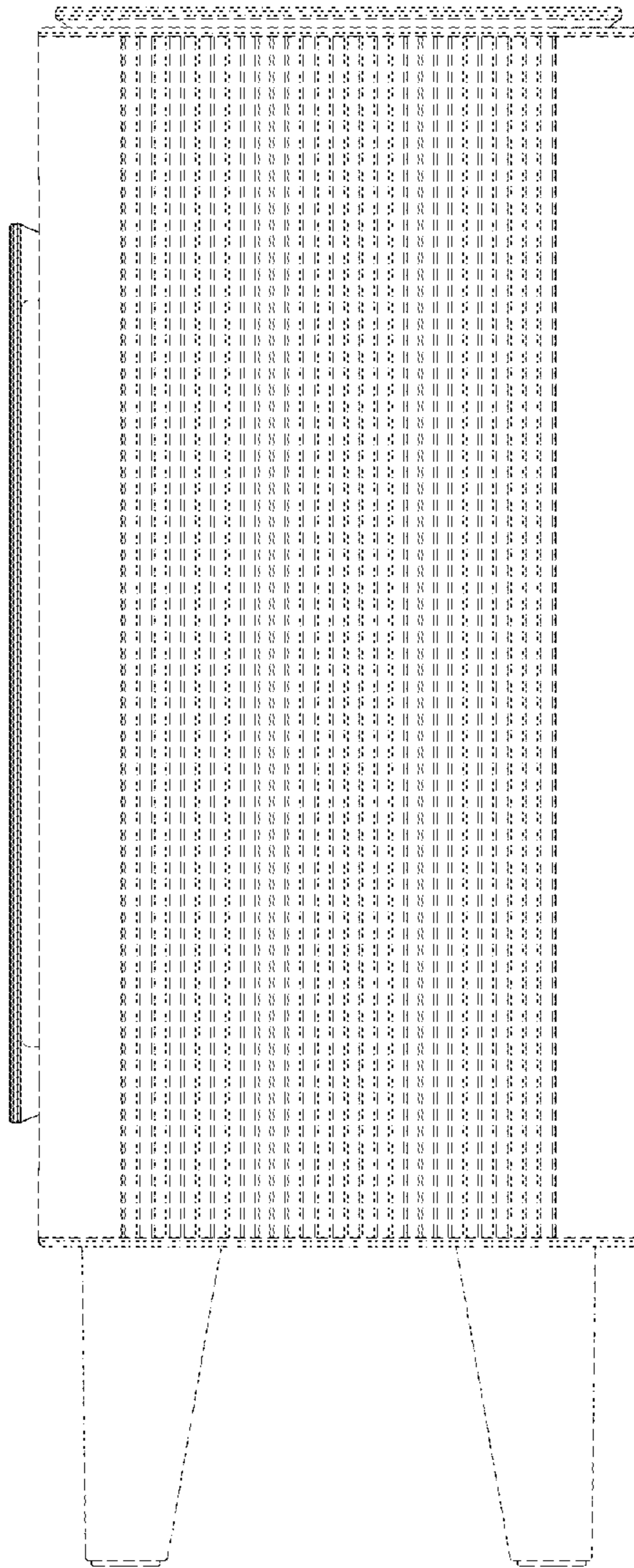


FIG. 4

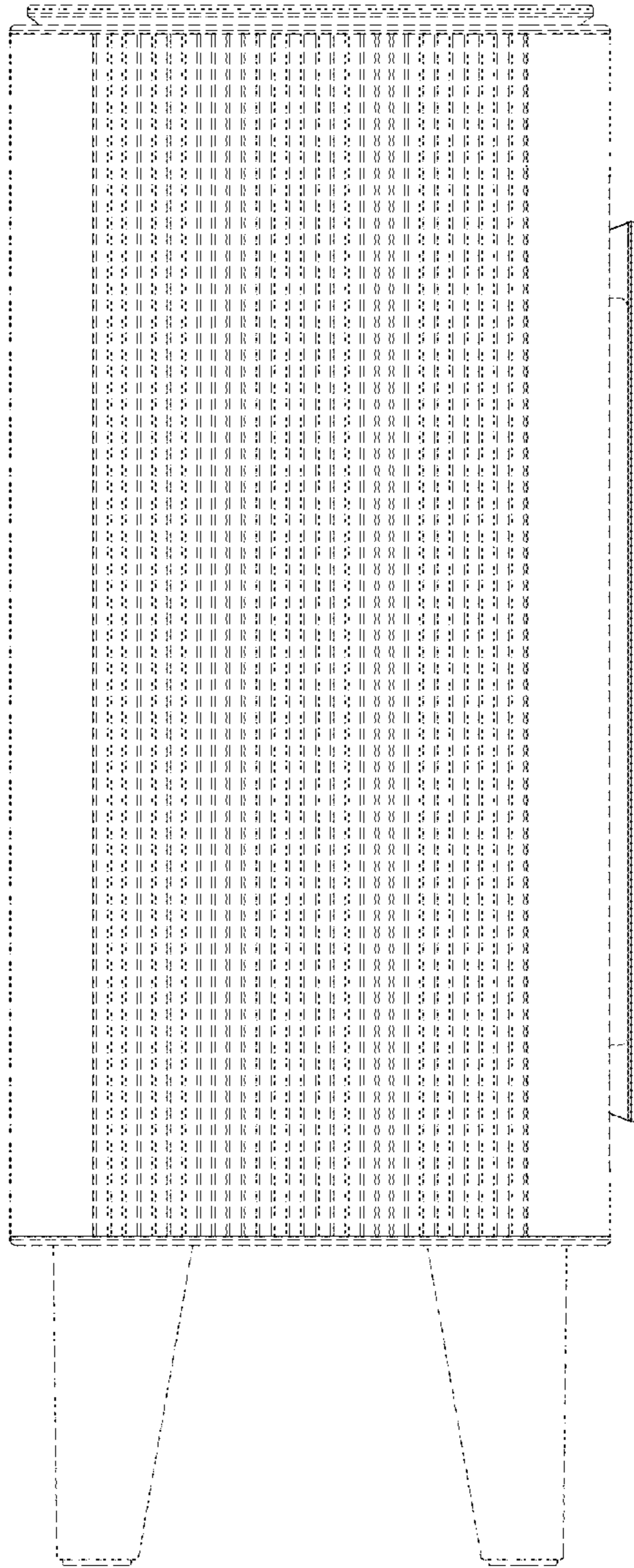


FIG. 5



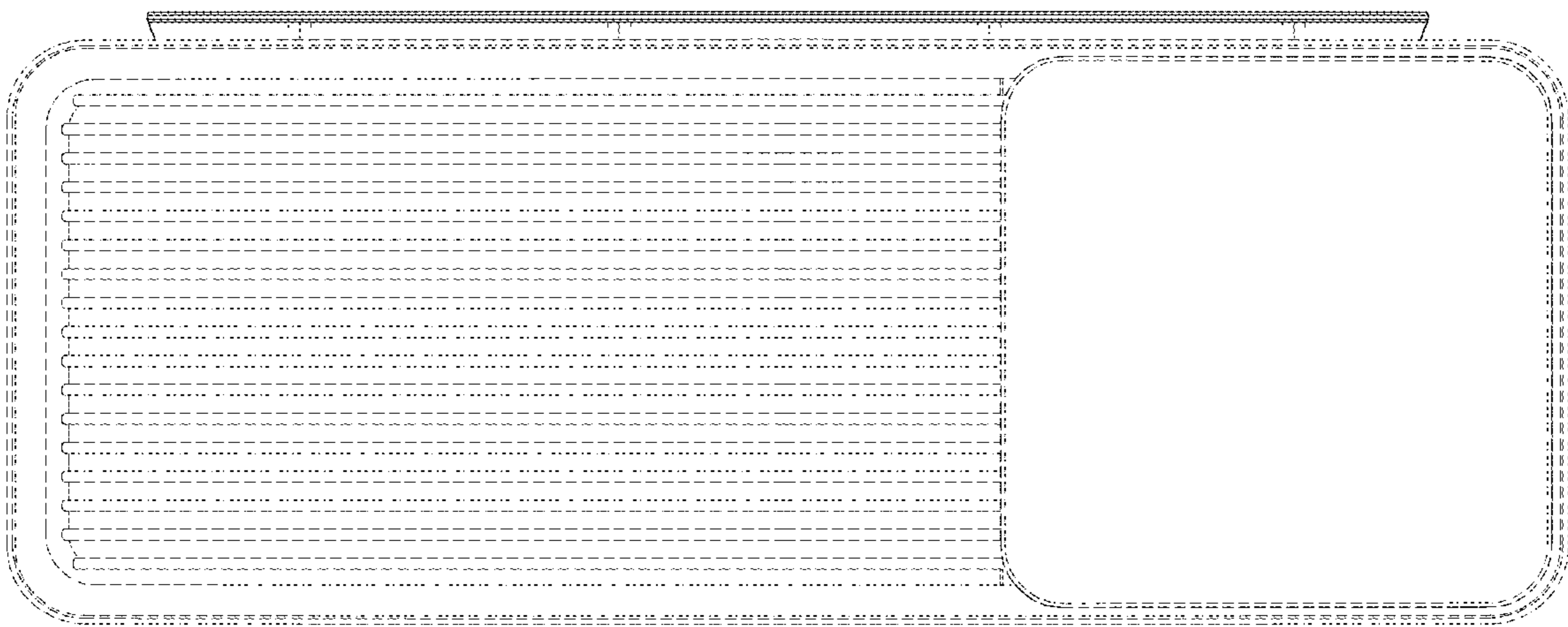


FIG. 6

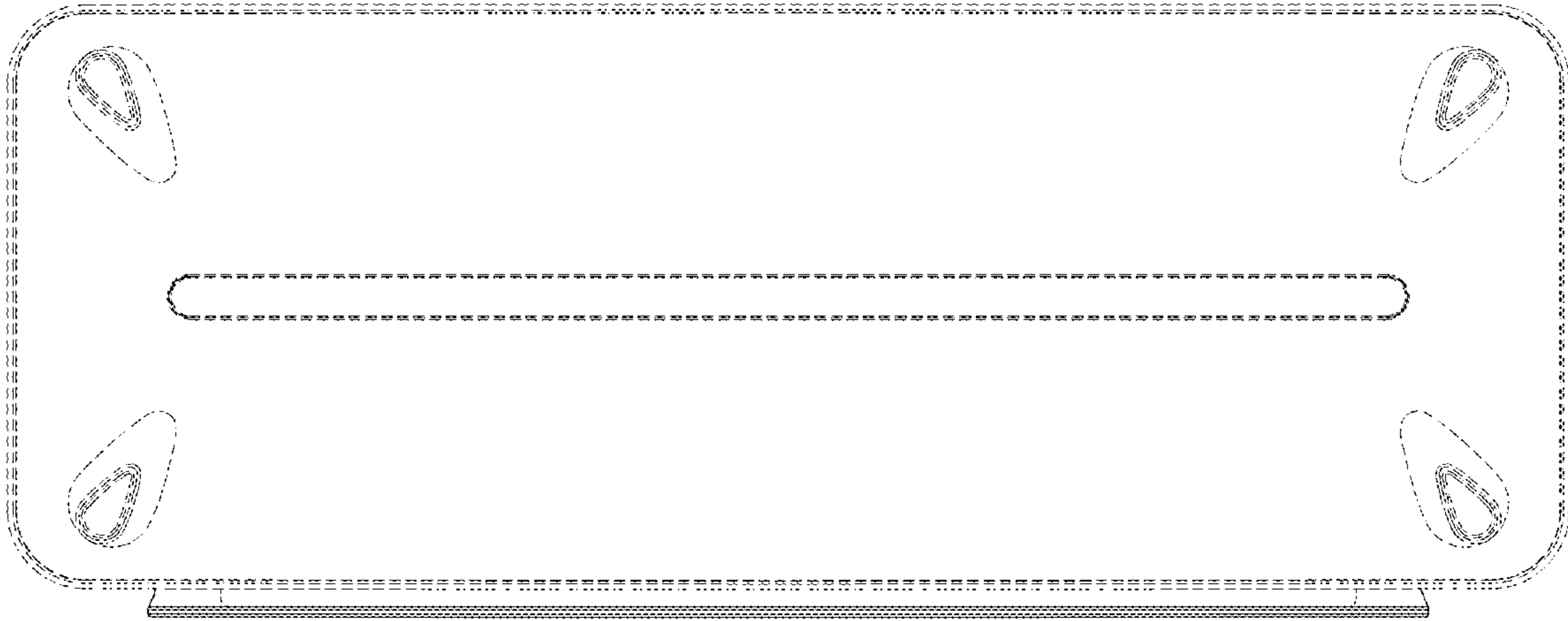


FIG. 7