



US00D832988S

(12) **United States Design Patent** (10) **Patent No.:** **US D832,988 S**  
**Stoner, Jr. et al.** (45) **Date of Patent:** **\*\* Nov. 6, 2018**

(54) **AIR TREATMENT SYSTEM**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Access Business Group International LLC**, Ada, MI (US)

KR 30-0291968 2/2002  
KR 30-0414752 5/2006

(Continued)

(72) Inventors: **William T. Stoner, Jr.**, Ada, MI (US); **Terry L. Lautzenheiser**, Nunica, MI (US); **Steve O. Mork**, Lowell, MI (US); **Sean T. Eurich**, Portage, MI (US); **Matthew J. Norconk**, Grand Rapids, MI (US); **Gregory K. Evans**, Alto, MI (US); **Michael Lozano**, Detroit, MI (US)

OTHER PUBLICATIONS

The BioGS Ultra Quiet Air Purifier, [www.rabbitair.com/biogs-2-ultra-quiet-hepa-air-purifier.aspx](http://www.rabbitair.com/biogs-2-ultra-quiet-hepa-air-purifier.aspx), pp. 1-3, dated Feb. 4, 2014.

*Primary Examiner* — Melanie H Tung

*Assistant Examiner* — Bao-Yen T Nguyen

(73) Assignee: **Access Business Group International LLC**, Ada, MI (US)

(74) *Attorney, Agent, or Firm* — Warner Norcross + Judd LLP

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

(57) **CLAIM**

(21) Appl. No.: **29/619,939**

The ornamental design for air treatment system, as shown and described.

(22) Filed: **Oct. 3, 2017**

**Related U.S. Application Data**

(60) Division of application No. 29/525,925, filed on May 5, 2015, now Pat. No. Des. 802,725, which is a (Continued)

**DESCRIPTION**

(51) **LOC (11) Cl.** ..... **23-04**

(52) **U.S. Cl.**

USPC ..... **D23/355**

(58) **Field of Classification Search**

USPC ..... D23/314, 325, 329, 333, 334, 335, 342, D23/355, 356, 358, 359, 364, 386, 387, D23/388, 389, 390, 391

(Continued)

FIG. 1 is a perspective view of the air treatment system of the new design;  
FIG. 2 is a right side elevational view thereof, the left side elevational view being identical thereto;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a rear elevational view thereof;  
FIG. 5 is a top plan view thereof; and,  
FIG. 6 is a bottom plan view thereof.

The claimed portions of the air treatment system are shaded and in solid line. Features of the air treatment system shown in broken lines are for environmental purposes and do not form any part of the claimed design. Further, all broken lines bounding a shaded portion of the design form the boundary of the design, with the bounding broken lines forming no part of the claimed design.

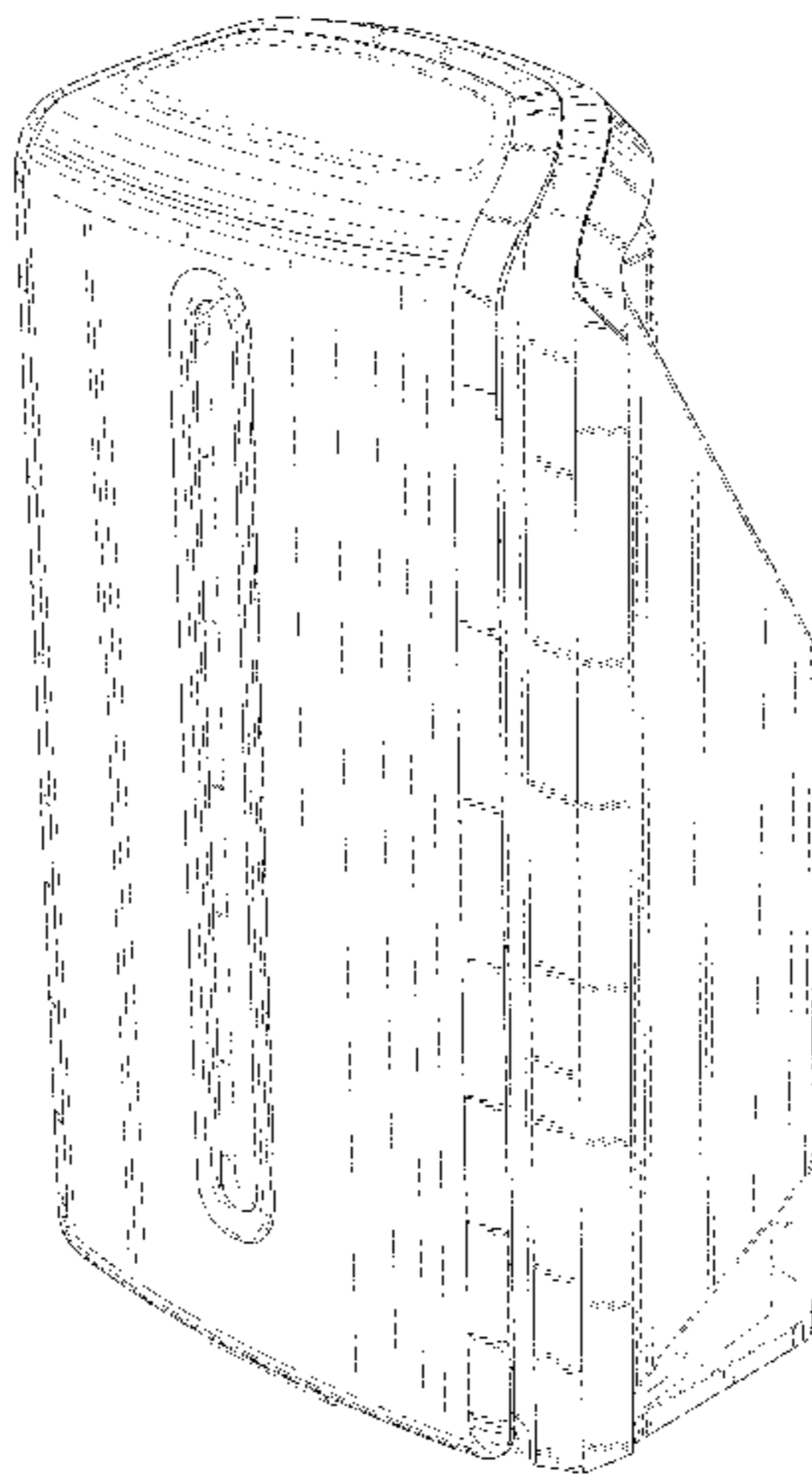
(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,035,728 A 7/1991 Fang  
5,980,600 A 11/1999 Stopyra et al.

(Continued)

**1 Claim, 5 Drawing Sheets**



**Related U.S. Application Data**

continuation-in-part of application No. 29/482,136, filed on Feb. 14, 2014, now Pat. No. Des. 739,512, and a continuation-in-part of application No. 29/490,049, filed on May 6, 2014, now Pat. No. Des. 765,234.

(58) **Field of Classification Search**

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; F24F 13/20; F24F 13/28; F24F 2001/0096

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,004,367	A	12/1999	Stopyra et al.	
6,017,375	A	1/2000	Duell et al.	
6,030,426	A	2/2000	Stopyra et al.	
6,447,586	B1	9/2002	Campbell	
6,464,760	B1	10/2002	Sham et al.	
6,471,736	B2	10/2002	Campbell et al.	
6,471,739	B2	10/2002	Eom	
6,478,838	B2	11/2002	McSweeney et al.	
6,494,940	B1	12/2002	Hak	
6,508,868	B2	1/2003	Pillion et al.	
6,863,704	B2	3/2005	Pillion et al.	
D503,972	S	4/2005	Pippel et al.	
6,902,597	B2	6/2005	Wu et al.	
6,911,060	B2	6/2005	Kaylan et al.	
D507,339	S	7/2005	Shapiro	
6,955,708	B1	10/2005	Julos et al.	
6,989,051	B2	1/2006	Parisi et al.	
7,008,469	B2	3/2006	Vetter et al.	
7,090,717	B2	8/2006	Kim et al.	
D529,154	S	9/2006	Koike	
7,153,347	B2	12/2006	Kang et al.	
7,166,259	B2	1/2007	Beam et al.	
D550,343	S	9/2007	Chen	
7,264,657	B2	9/2007	Yuen	
D553,718	S	10/2007	Shapiro	
7,276,100	B2	10/2007	Huehn et al.	
7,291,205	B2	11/2007	Chu	
7,332,020	B2	2/2008	Tanaka et al.	
D572,352	S	7/2008	Chiu	
D575,857	S	8/2008	Chiu	
D578,192	S	10/2008	Yoo et al.	
D578,629	S *	10/2008	Yoo .....	D23/333
7,448,224	B2	11/2008	Wu et al.	
D584,805	S	1/2009	Yoo et al.	
D589,132	S	3/2009	Chiu	
7,531,141	B2	5/2009	Descotes et al.	
7,537,647	B2	5/2009	Adair et al.	
D598,087	S *	8/2009	Park .....	D23/333
D604,401	S	11/2009	Chun et al.	
D605,272	S *	12/2009	Chun .....	D23/359
7,632,340	B2	12/2009	Brady et al.	

7,704,303	B2	4/2010	Nowak	
D616,081	S	5/2010	Chiu	
7,713,339	B2	5/2010	Johansson	
7,856,840	B2	12/2010	Yoon et al.	
D634,829	S	3/2011	Niki	
7,896,957	B2	3/2011	Zhao et al.	
7,909,922	B2	3/2011	Jang et al.	
7,914,596	B2	3/2011	Miyazaki et al.	
7,934,387	B2	5/2011	Lee et al.	
D643,520	S	8/2011	Choi	
D644,312	S *	8/2011	Tsuji .....	D23/364
7,993,589	B1	8/2011	Shigemoto et al.	
7,998,231	B2	8/2011	Zheng et al.	
8,002,868	B2	8/2011	Kim et al.	
8,034,169	B2	10/2011	Yamashita et al.	
8,083,840	B2	12/2011	Bailey et al.	
D651,706	S	1/2012	Sidell	
D658,280	S *	4/2012	Niki .....	D23/364
D660,948	S	5/2012	Varma	
8,273,144	B2	9/2012	Shore et al.	
8,282,696	B2	10/2012	Kang	
D676,537	S *	2/2013	Yoo .....	D23/359
D681,789	S	5/2013	Chiu	
8,496,737	B2	7/2013	Kim et al.	
8,500,882	B2	8/2013	Yun et al.	
8,544,825	B2	10/2013	Lee et al.	
8,562,913	B2	10/2013	Searle	
D716,425	S	10/2014	Tai et al.	
D723,149	S	2/2015	Huang et al.	
8,951,319	B2	2/2015	Kim et al.	
9,005,347	B2	4/2015	Lev	
9,381,457	B2	7/2016	Nygren	
2003/0070544	A1	4/2003	Mulvaney et al.	
2005/0005585	A1	1/2005	Kim	
2005/0011171	A1	1/2005	Lee et al.	
2006/0021508	A1	2/2006	Kwon et al.	
2006/0024197	A1	2/2006	Park et al.	
2006/0278084	A1	12/2006	Kim	
2006/0278085	A1	12/2006	Kim et al.	
2007/0000219	A1	1/2007	Park et al.	
2007/0062370	A1	3/2007	Ahn et al.	
2008/0127830	A1	6/2008	Le et al.	
2010/0000413	A1	1/2010	Turner et al.	
2012/0301363	A1	11/2012	Kim et al.	
2014/0238243	A1	8/2014	Jardine et al.	
2015/0113924	A1	4/2015	Mathews et al.	
2015/0290572	A1	10/2015	Stoner, Jr. et al.	
2016/0023151	A1	1/2016	Swenerton et al.	
2016/0038868	A1	2/2016	Kwon et al.	
2016/0121251	A1	5/2016	Baek et al.	
2016/0131372	A1	5/2016	Choi et al.	
2016/0184753	A1	6/2016	Chu et al.	

FOREIGN PATENT DOCUMENTS

KR	30-0416617	6/2006
KR	30-0452104	6/2007
KR	DM/088612	9/2016
KR	30-0878145	10/2016
KR	30-0880901	11/2016

\* cited by examiner

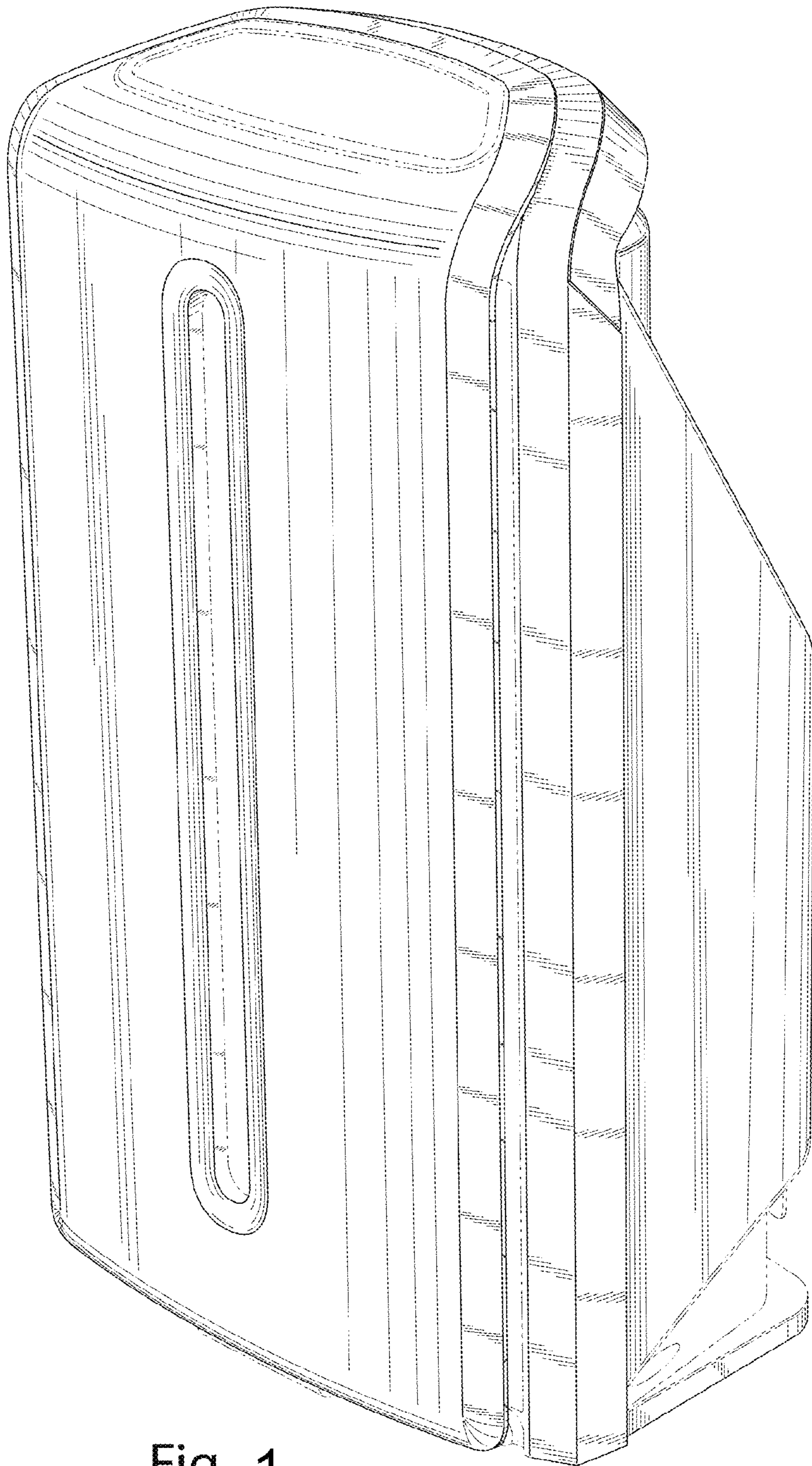


Fig. 1

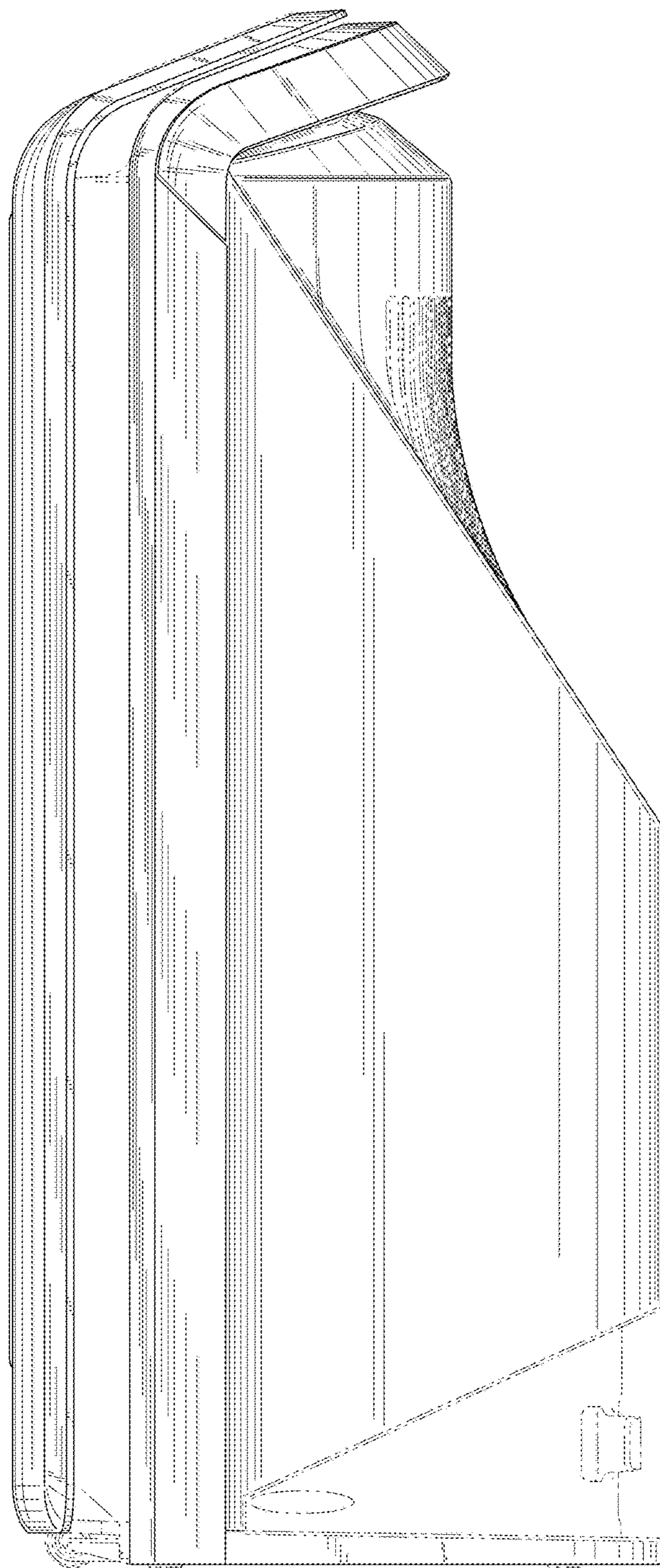


Fig. 2

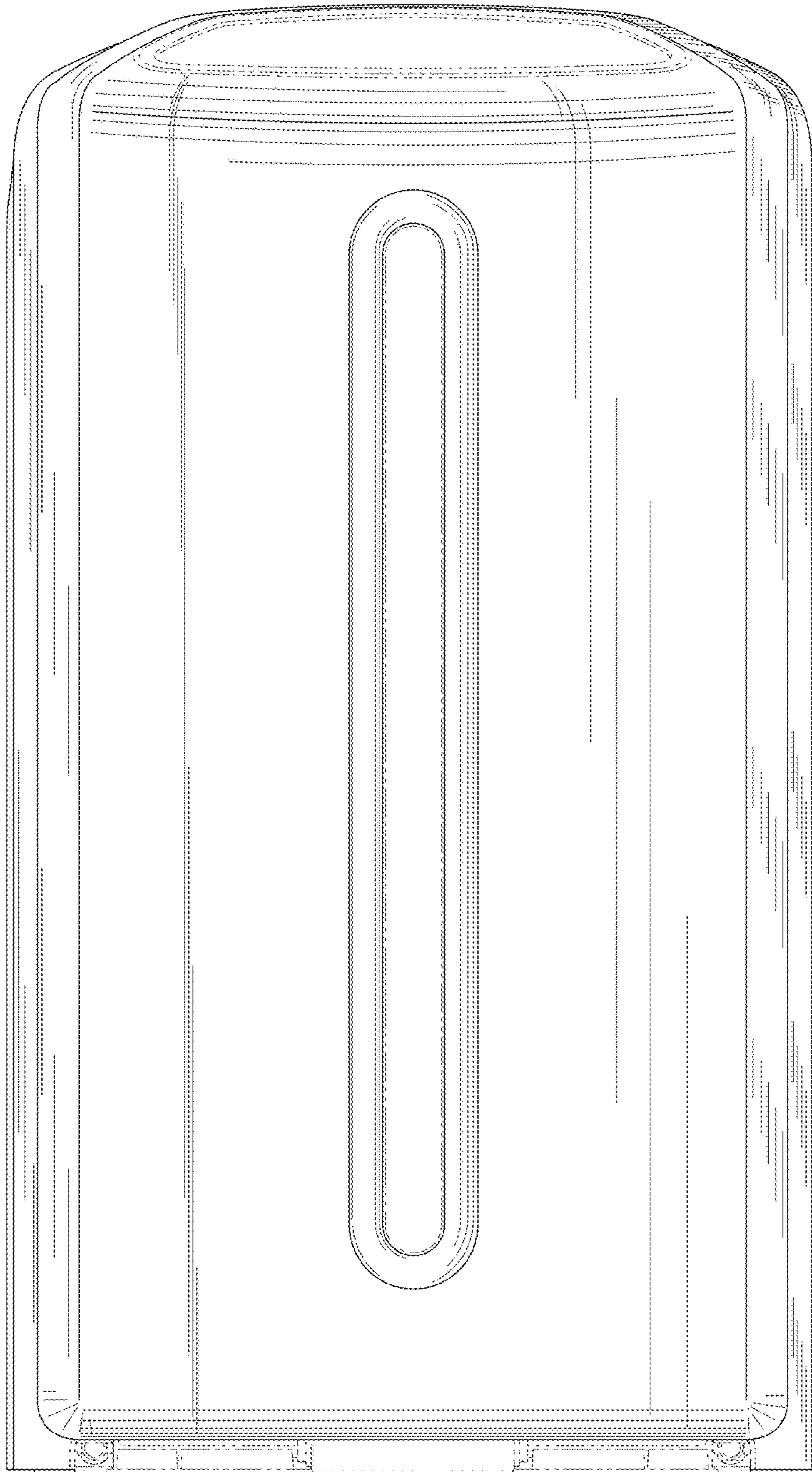


Fig. 3

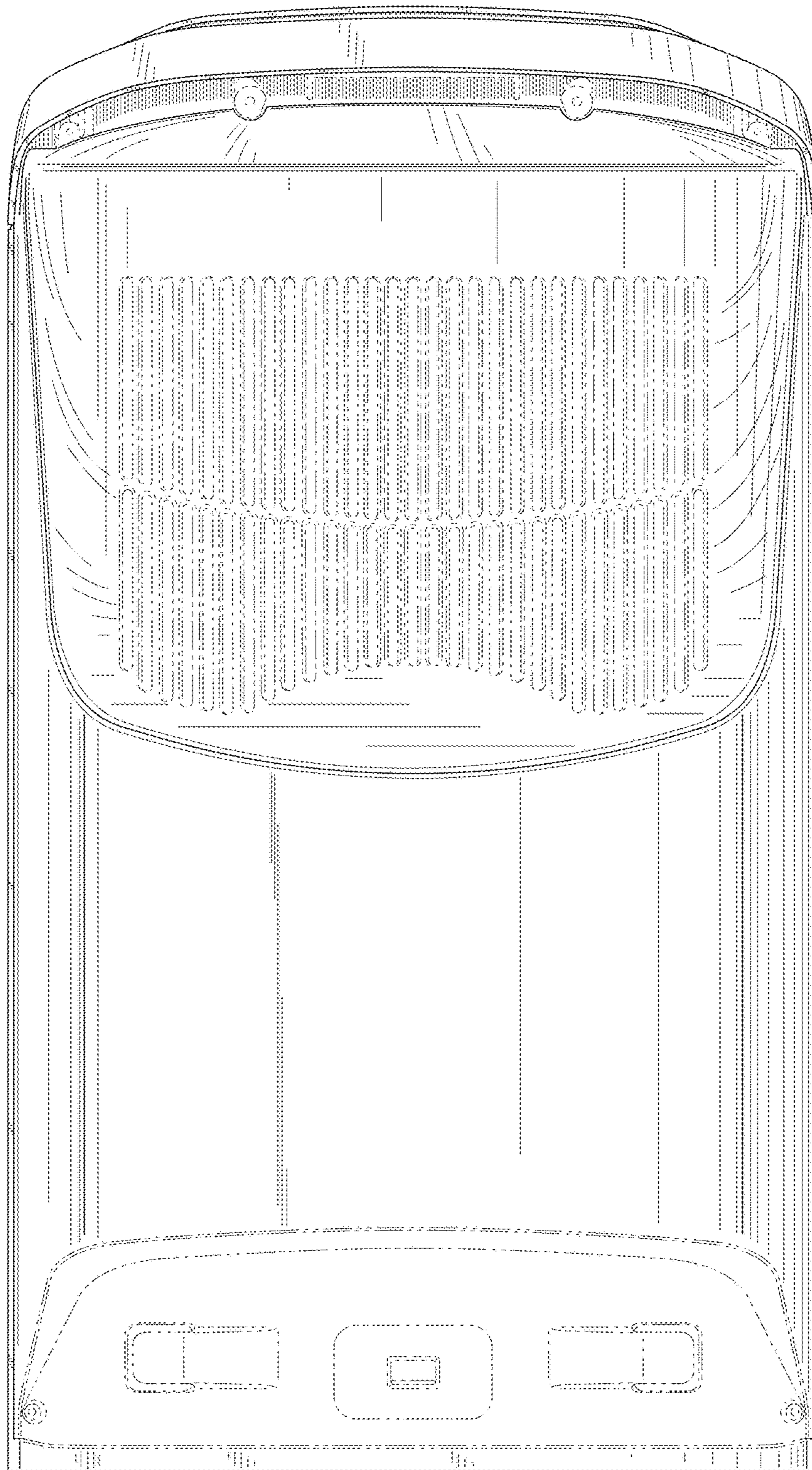


Fig. 4

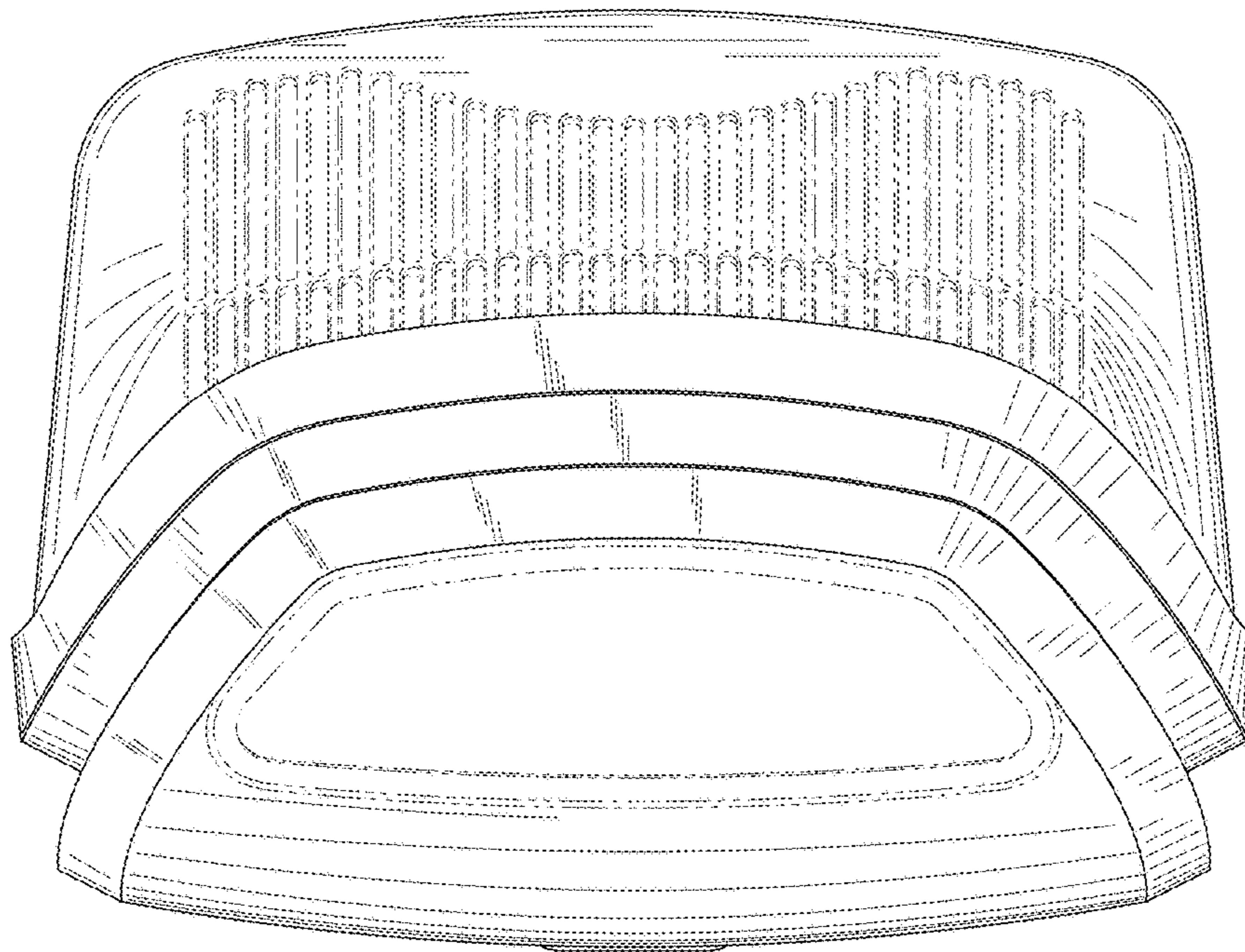


Fig. 5

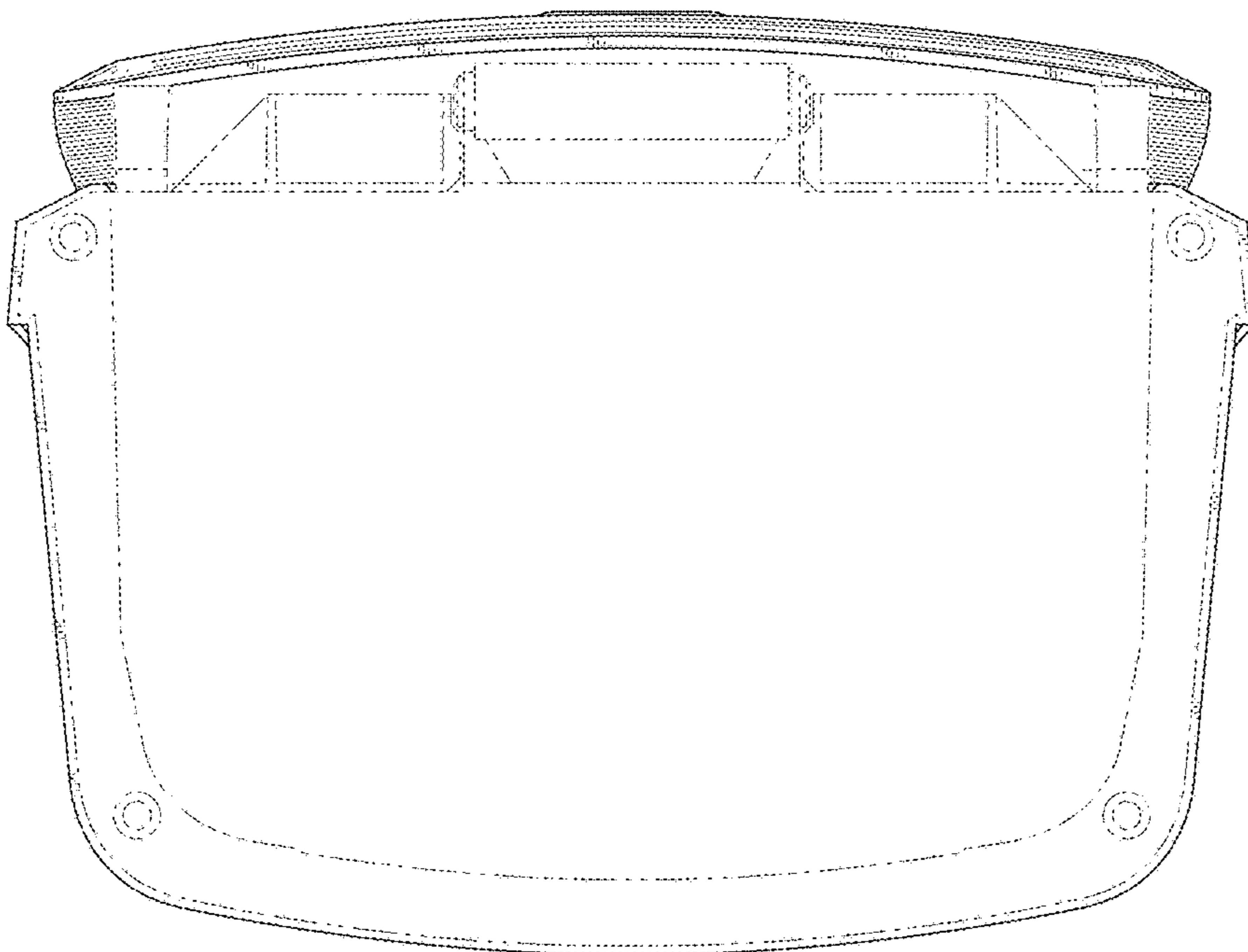


Fig. 6