



US00D846105S

(12) **United States Design Patent** (10) **Patent No.:** **US D846,105 S**
Stoner, Jr. et al. (45) **Date of Patent:** **** Apr. 16, 2019**

(54) **AIR TREATMENT SYSTEM**

FOREIGN PATENT DOCUMENTS

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

(Continued)

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OTHER PUBLICATIONS

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

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

(57) **CLAIM**

(21) Appl. No.: **29/647,265**

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

(22) Filed: **May 11, 2018**

Related U.S. Application Data

(60) Division of application No. 29/619,939, filed on Oct. 3, 2017, now Pat. No. Des. 832,988, 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

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. FIGS. 1-6 may show features of the air treatment system in phantom lines. FIGS. 1-6 show features of the air treatment system in phantom lines. Further, all phantom lines bounding a shaded portion of the design form the boundary of the design, with the bounding phantom lines forming no part of the claimed design.

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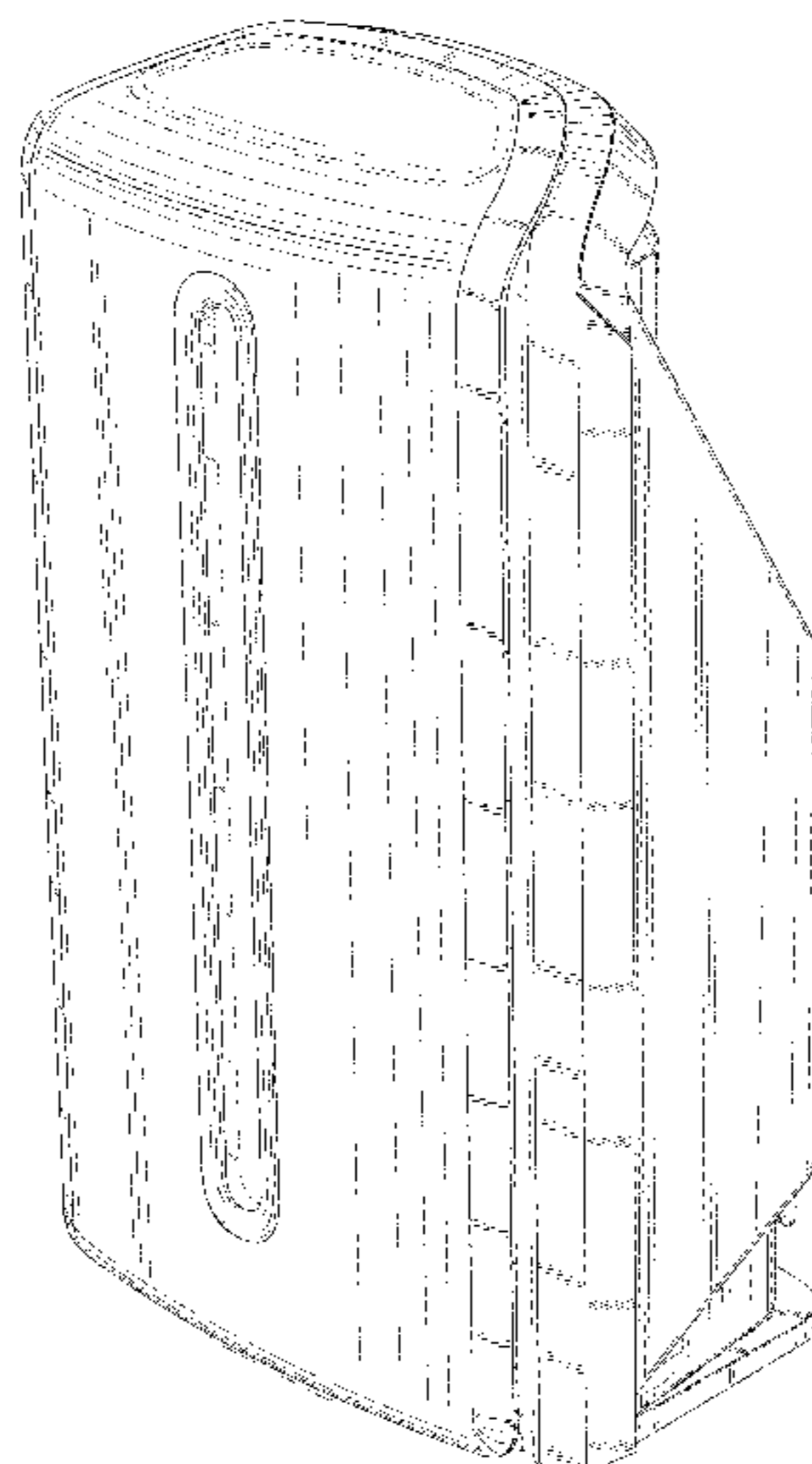
(56) **References Cited**

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, which is 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 et al.
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 et al.
D604,401	S	11/2009	Chun et al.
D605,272	S	12/2009	Chun et al.
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
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 et al.
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 et al.
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
D739,512	S *	9/2015	Stoner, Jr. D23/355
D747,789	S *	1/2016	Stoner, Jr. D23/355
9,381,457	B2	7/2016	Nygren
D765,234	S *	8/2016	Stoner, Jr. D23/364
D802,725	S *	11/2017	Stoner, Jr. D23/355
D832,988	S *	11/2018	Stoner, Jr. D23/355
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

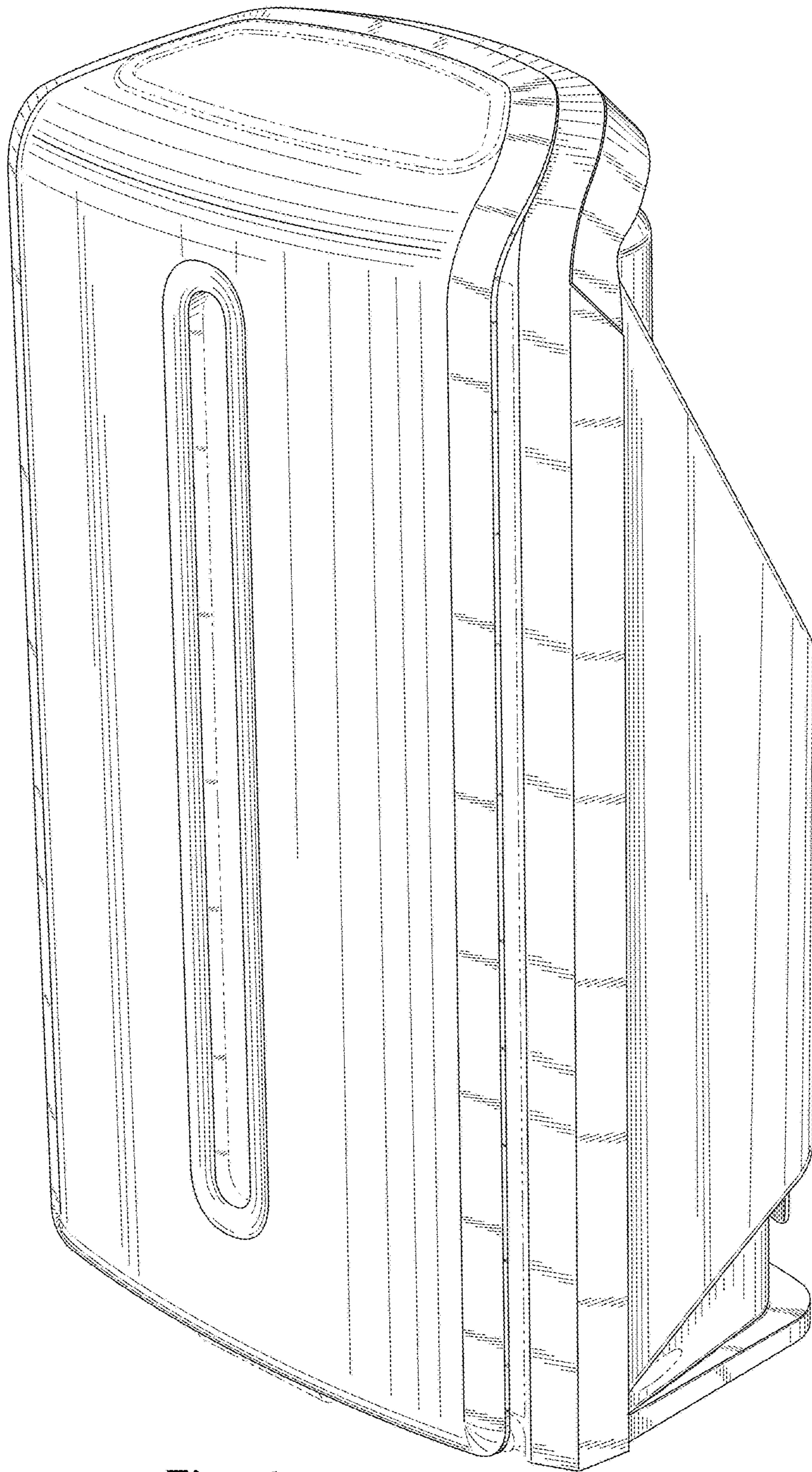


Fig. 1

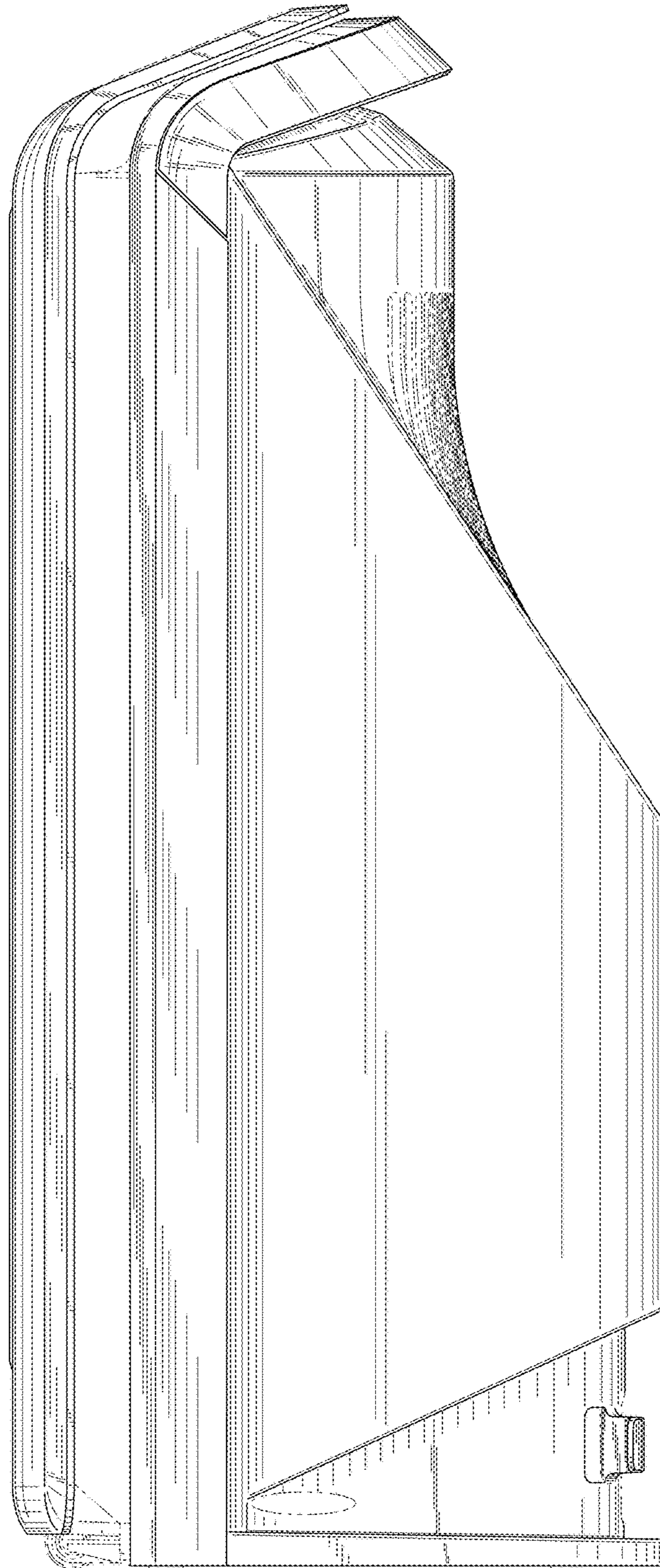


Fig. 2

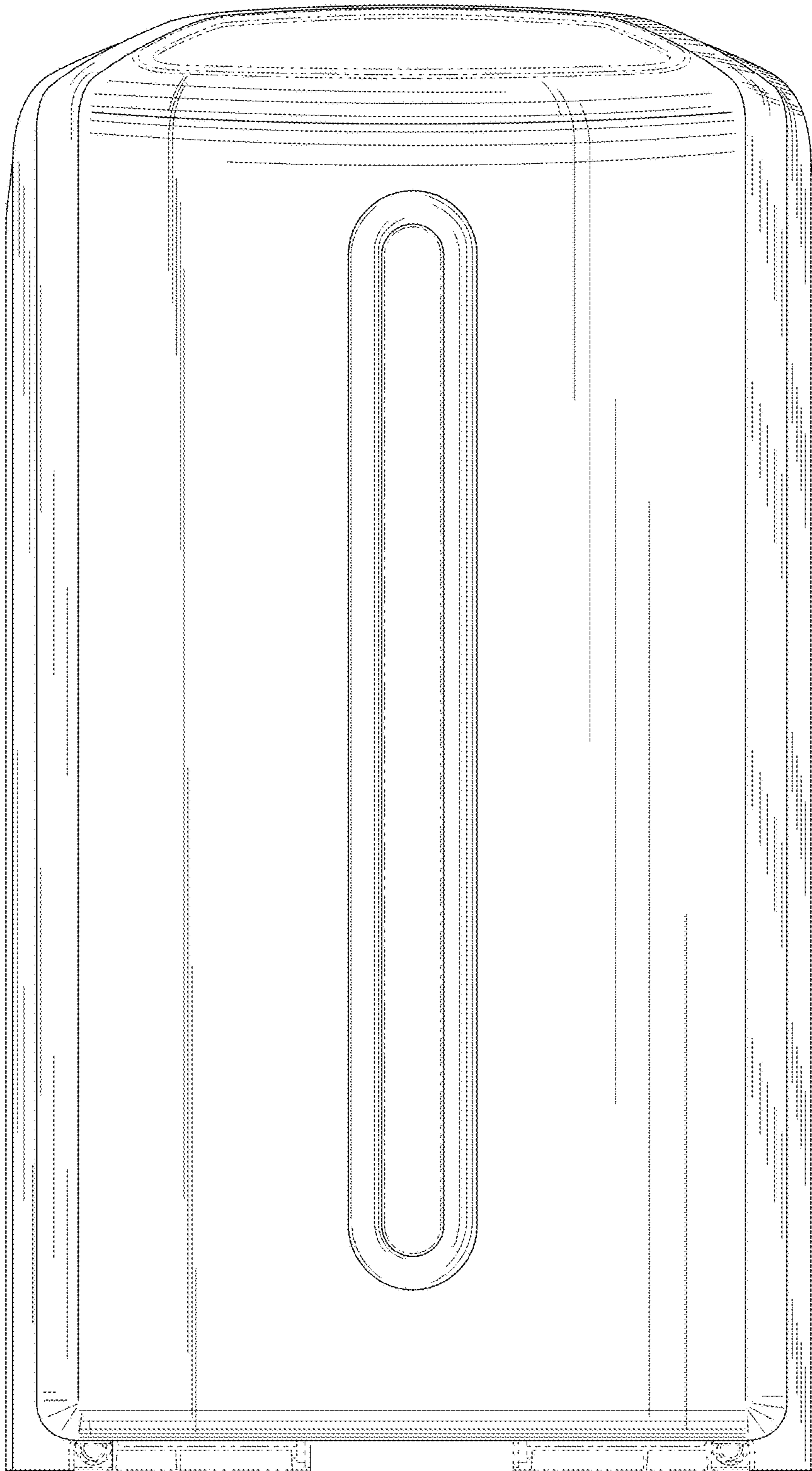


Fig. 3

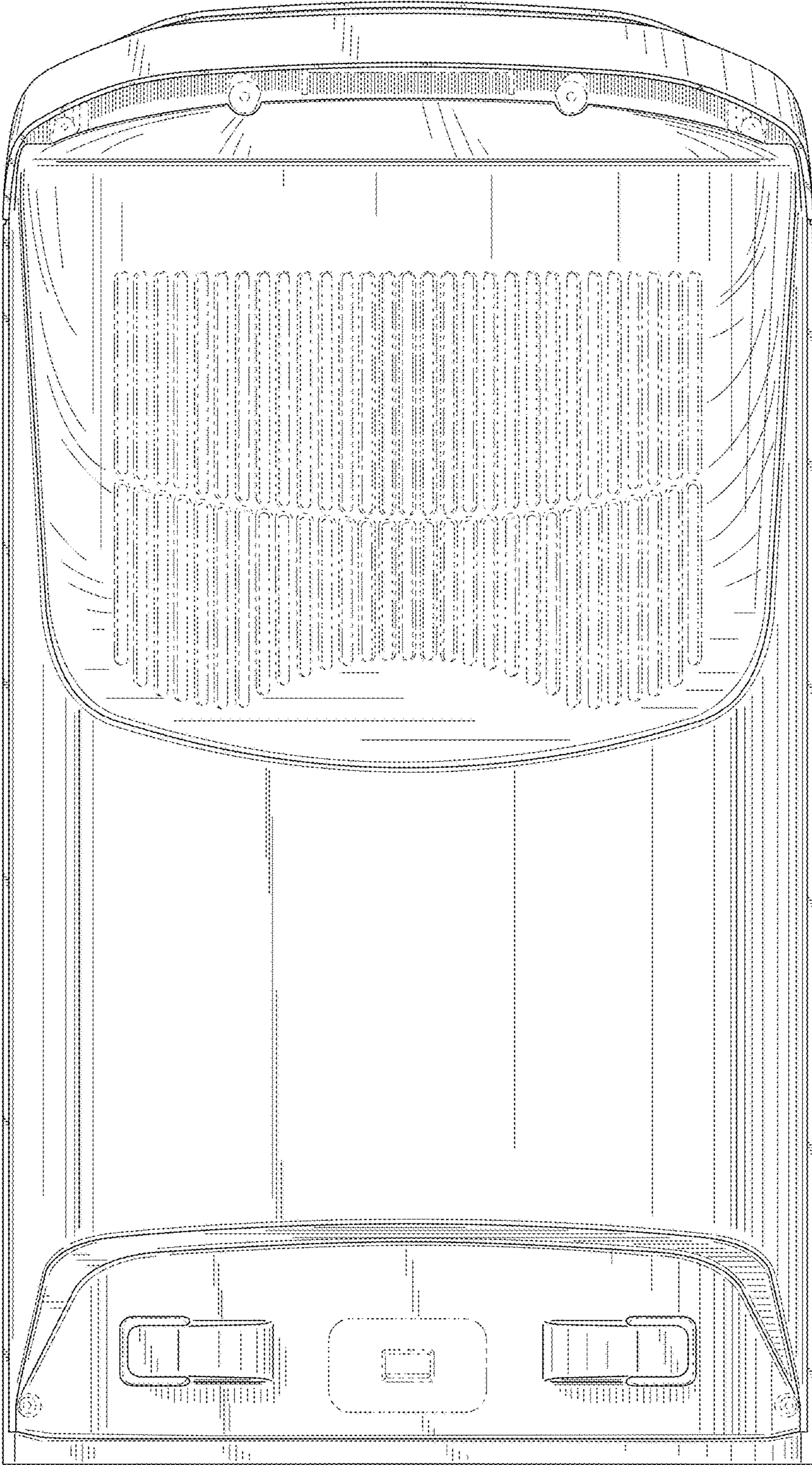


Fig. 4

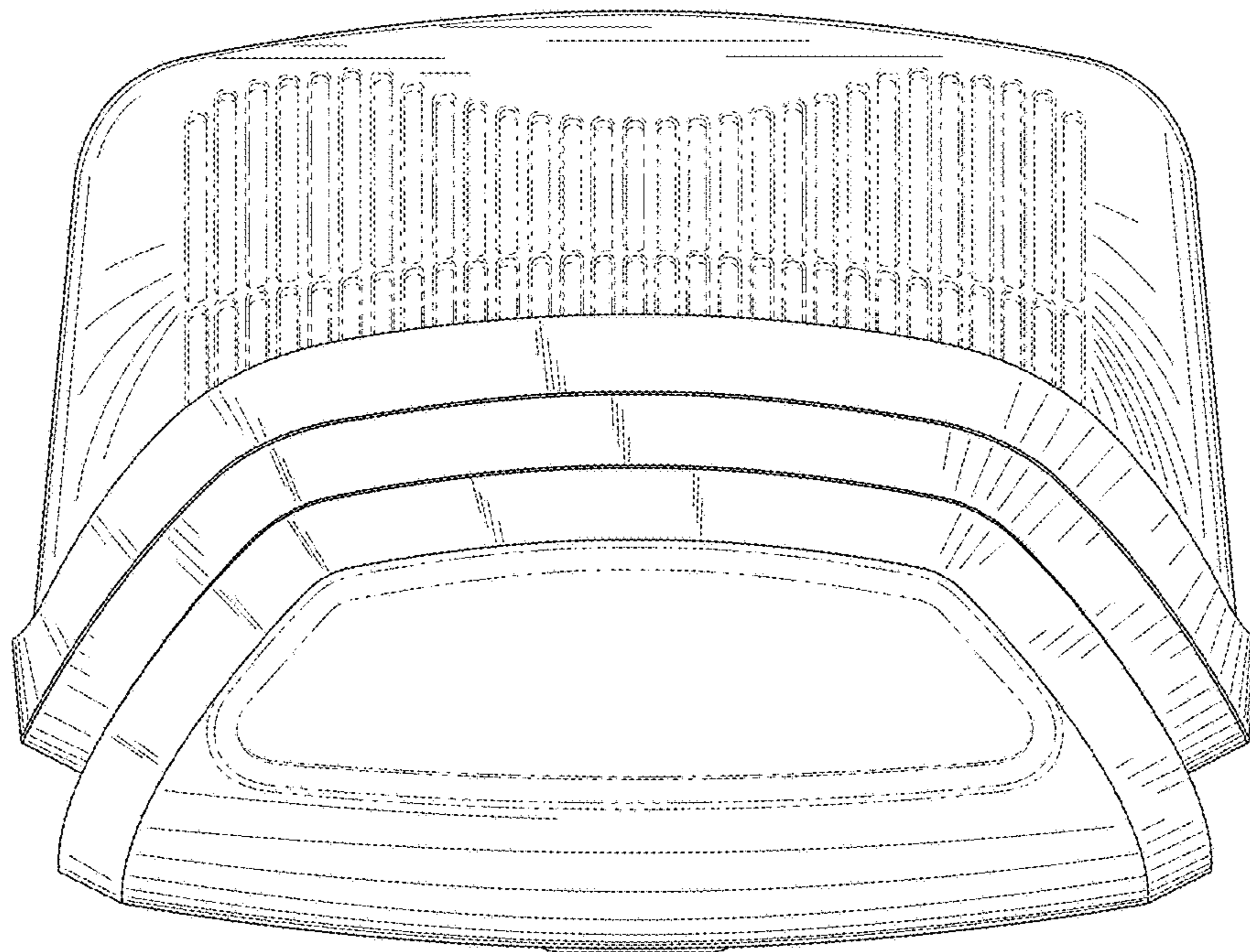


Fig. 5

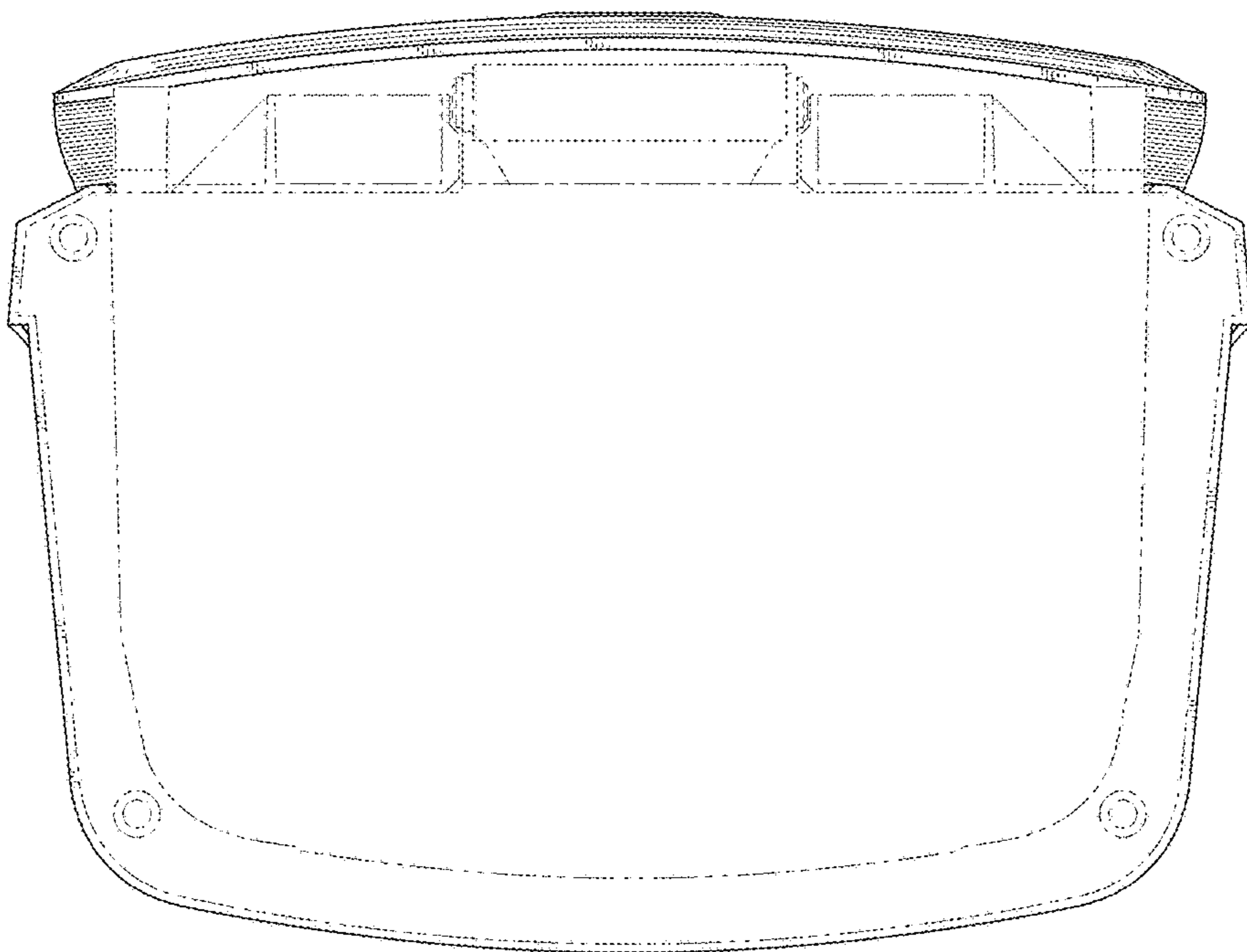


Fig. 6

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : D846,105 S
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DATED : April 16, 2019
INVENTOR(S) : William T. Stoner, Jr. et al.

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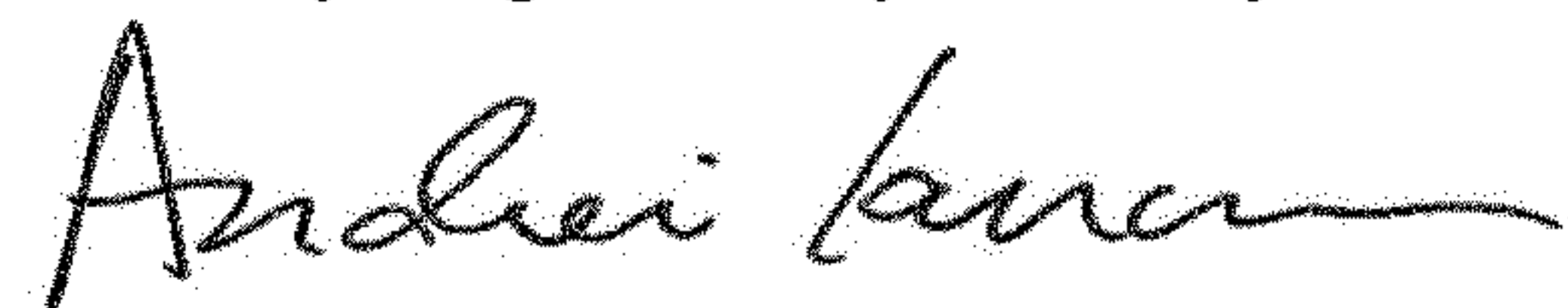
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

Item (60) Related U.S. Application Data section, Line 2:

After "Des. 832,988," insert -- which is a division of application No. 29/525,925, filed on May 5, 2015, now Pat. No. Des. 802,725, --

Signed and Sealed this
Twenty-eighth Day of May, 2019



Andrei Iancu
Director of the United States Patent and Trademark Office