



US00D946136S

(12) **United States Design Patent** (10) **Patent No.:** **US D946,136 S**
Appiahene-Agyei et al. (45) **Date of Patent:** **** Mar. 15, 2022**

(54) **VENTILATION GRILLE**
(71) Applicant: **Broan-NuTone LLC**, Hartford, WI (US)
(72) Inventors: **Kwame Appiahene-Agyei**, Austin, TX (US); **David Jennings Lucas**, Austin, TX (US)
(73) Assignee: **Broan-NuTone LLC**, Hartford, WI (US)

2,021,086 A 11/1935 Oskamp
D107,399 S 12/1937 Broadwin
2,108,283 A 2/1938 Drew et al.
D109,887 S 5/1938 Fordyce
2,182,690 A 12/1939 Cole
D118,359 S 1/1940 Arenberg
D120,266 S 4/1940 Fischer
D120,772 S 5/1940 Arenberg
D120,773 S 5/1940 Arenberg
2,220,127 A 11/1940 Slayter
2,222,081 A 11/1940 Leigh

(Continued)

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/671,528**

Broan QTX110SL Media Gallery, Broan QTX110SL Combination Fan, Light, Night-Light, 110 CFM, 0.9 Sones, Humidity Sensing, ventingdirect.com, 1 page.

(22) Filed: **Nov. 28, 2018**

(Continued)

(51) **LOC (13) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/385**; D23/412

Primary Examiner — Sharon S Oum
(74) *Attorney, Agent, or Firm* — Barnes & Thornburg LLP

(58) **Field of Classification Search**
USPC D23/351, 333, 353, 354, 267, 343–348, D23/364–365, 370–371, 373–376, D23/378–386, 393, 411–412; D25/138, D25/157; D26/26, 59, 88, 120; D14/434, 458, 218, 400; D11/220, 222; D21/333, 369, 385
CPC F04D 25/088; F04D 29/005; F04D 29/601; F04D 29/324; F21V 33/0096; F21V 33/0092; F24F 13/078

(57) **CLAIM**

The ornamental design for a ventilation grill, as shown and described.

See application file for complete search history.

DESCRIPTION

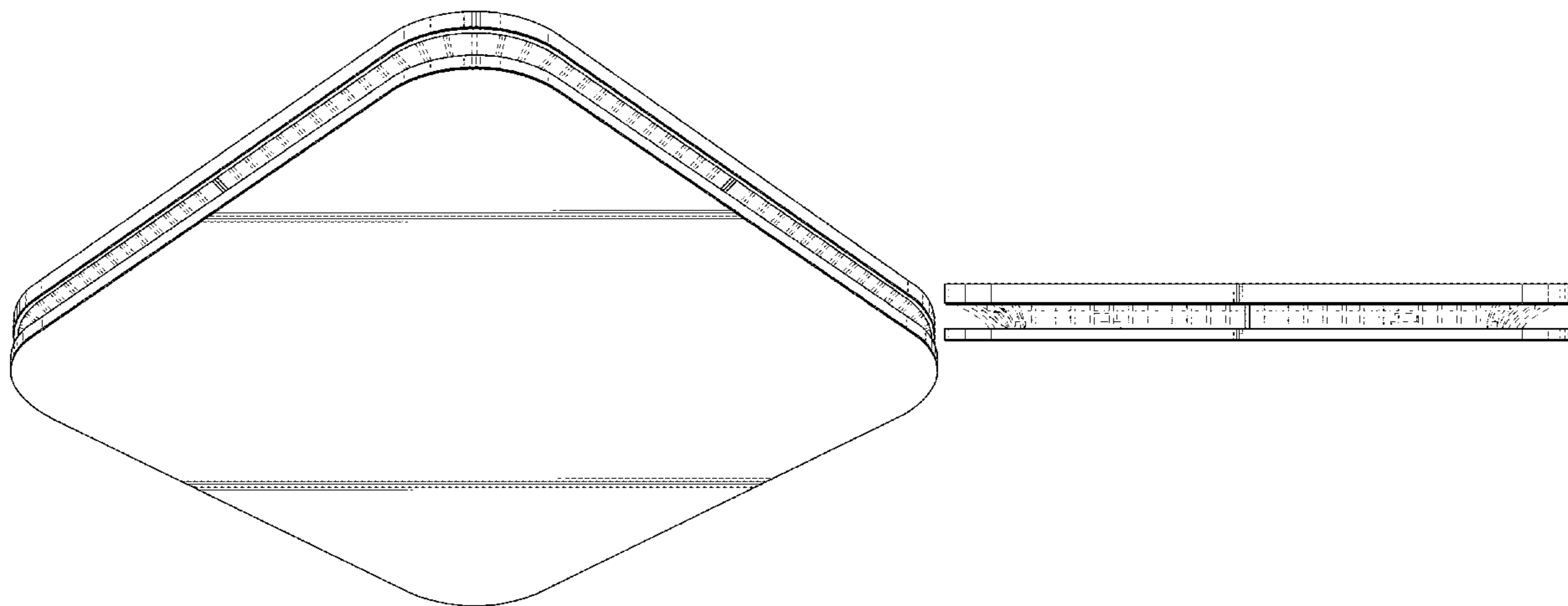
FIG. 1 is a bottom perspective view of the ventilation grille of the instant invention;
FIG. 2 is a bottom view of the grille of FIG. 1;
FIG. 3 is a top view of the grille of FIG. 1;
FIG. 4 is a left side view of the grille of FIG. 1;
FIG. 5 is a right side view of the grille of FIG. 1;
FIG. 6 is a front side view of the grille of FIG. 1;
FIG. 7 is a rear side view of the grille of FIG. 1; and,
FIG. 8 is a cross-sectional view of the grille of FIG. 1, taken along line 8-8 of FIG. 2.
The broken lines illustrate portions of the ventilation grille that form no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,030,028 A 6/1912 Stampahar et al.
1,395,833 A 11/1921 Kling et al.
1,532,635 A 4/1925 Osbun
1,713,101 A 5/1929 Starrett
1,886,841 A 11/1932 Searles
1,895,642 A 1/1933 Preble
1,941,450 A 1/1934 Sylvan
2,019,867 A 11/1935 Nelson

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D126,128 S	3/1941	Eallman	3,926,537 A	12/1975	Piper
2,240,617 A	5/1941	Harrigan	3,952,638 A	4/1976	Felter et al.
2,278,581 A	4/1942	Dexter	D244,764 S	6/1977	Grubauer
D132,865 S	6/1942	Drollinger	D244,854 S	6/1977	Salamone
2,325,657 A	8/1943	Burkness	4,073,597 A	2/1978	Barnhart et al.
D153,313 S	4/1949	Phillips	4,115,082 A	9/1978	Newell
2,472,748 A	6/1949	Labus	4,141,703 A	2/1979	Mulchi
2,483,377 A	9/1949	Young	4,203,332 A	5/1980	Corsetti
D157,014 S	1/1950	Walker	D256,047 S	7/1980	Wormington
2,576,860 A	11/1951	Shapiro	D257,060 S	9/1980	Mann
D165,982 S	2/1952	Kennedy	D258,083 S	1/1981	Gammell
D166,324 S	4/1952	Kurth	4,252,547 A	2/1981	Johnson
D171,505 S	2/1954	Krueger	D261,803 S	11/1981	Bohanon
2,668,491 A	2/1954	Gerlitz	D262,457 S	12/1981	Swales
2,673,514 A	3/1954	Hanks	4,319,898 A	3/1982	Maierhofer
D173,120 S	9/1954	Levenhagen	4,335,647 A	6/1982	Timmons
2,689,906 A	9/1954	Corbett	4,336,749 A	6/1982	Barnhart et al.
2,697,163 A	12/1954	Spear	D267,828 S	2/1983	Cohen
2,710,573 A	6/1955	Marker	D268,952 S	5/1983	Anderson
2,780,981 A	2/1957	Miller	4,382,440 A	5/1983	Kapp et al.
2,790,375 A	4/1957	Broberg	4,385,550 A	5/1983	Steiner et al.
2,799,213 A	7/1957	Hansen	4,385,911 A	5/1983	Popeil et al.
2,800,069 A	7/1957	Smith	4,406,216 A	9/1983	Hott et al.
D180,727 S	8/1957	Bourner	D271,984 S	12/1983	Nelson et al.
2,811,094 A	10/1957	Auer	D275,988 S	10/1984	Walker
2,824,429 A	2/1958	Zucker	D276,282 S	11/1984	Burg
2,831,550 A	4/1958	Bub	D277,298 S	1/1985	Nelson
D183,117 S	7/1958	Coleman	D277,299 S	1/1985	Nelson
2,875,678 A	3/1959	Shepherd	4,510,851 A	4/1985	Sarnosky et al.
2,911,900 A	11/1959	Rudy	D282,275 S	1/1986	Price
2,939,377 A	6/1960	Stach	D282,972 S	3/1986	Castor et al.
2,963,956 A	12/1960	Hill	4,594,940 A	6/1986	Wolbrink et al.
2,987,258 A	6/1961	North	4,610,705 A	9/1986	Sarnosky et al.
2,996,972 A	8/1961	Johansson	D286,446 S	10/1986	Caroli et al.
3,001,056 A	9/1961	Spear	4,628,802 A	12/1986	Steiner et al.
3,002,676 A	10/1961	Papsdorf	D287,888 S	1/1987	Castor et al.
D192,312 S	2/1962	Hart	D288,007 S	1/1987	Jonas et al.
3,028,475 A	4/1962	Nash	D288,396 S *	2/1987	Ritman D7/554.3
3,045,579 A	7/1962	Jenn et al.	4,681,024 A	7/1987	Ivey
D193,868 S	10/1962	Bloomfield	4,722,266 A	2/1988	Deckert
3,064,548 A	11/1962	Field	D295,675 S	5/1988	Demarest
3,068,341 A	12/1962	Ortiz et al.	4,754,697 A	7/1988	Asselbergs
3,075,335 A	1/1963	Bandlow	4,776,798 A	10/1988	Crawford
3,097,287 A	7/1963	Knoll et al.	D300,777 S	4/1989	Bales et al.
3,101,662 A	8/1963	Alldritt	D300,847 S	4/1989	Lin
D196,618 S	10/1963	Hammes	4,862,334 A	8/1989	Ivey et al.
D199,045 S	9/1964	Everts	D303,436 S	9/1989	Clyde-Mason
3,211,080 A	10/1965	Rader	4,867,640 A	9/1989	Penlesky et al.
3,212,425 A	10/1965	Hazen et al.	4,991,496 A	2/1991	Kuno et al.
3,215,828 A	11/1965	Bonvallet et al.	D315,790 S	3/1991	Koessler
3,249,037 A	5/1966	Stalker	D322,667 S	12/1991	Fukuda et al.
3,250,063 A	5/1966	Andrews	D323,209 S	1/1992	Fukumoto et al.
3,276,597 A	10/1966	Mesek et al.	D323,554 S	1/1992	Hoyt et al.
3,326,112 A	6/1967	Sadlow et al.	D325,434 S	4/1992	Dosmann
3,332,334 A	7/1967	Melzer	D325,651 S	4/1992	Sonneman
3,347,025 A	10/1967	Wiley	D328,650 S	8/1992	Jones
3,391,689 A	7/1968	Roger	D330,585 S	10/1992	Saito et al.
3,438,180 A	4/1969	Klouda	D331,458 S	12/1992	Saito et al.
3,460,322 A	8/1969	Rivers et al.	D331,638 S	12/1992	Vamberszky et al.
3,572,234 A	3/1971	Schoenthaler	D334,053 S	3/1993	Cook
3,577,710 A	5/1971	Feldman	5,197,920 A	3/1993	Ganse
3,606,593 A	9/1971	Steiner	D334,977 S	4/1993	Avari
3,630,007 A	12/1971	Neumann	D336,895 S	6/1993	Rogov
3,636,306 A	1/1972	Bumpus	D338,954 S	8/1993	Brock
3,665,838 A	5/1972	Shepherd	D340,109 S	10/1993	Julien
3,692,977 A	9/1972	Duhamel et al.	D341,442 S	11/1993	Shapiro
3,698,833 A	10/1972	Cann et al.	D346,508 S *	5/1994	Morgan D6/308
3,732,030 A	5/1973	Mullings	5,319,942 A	6/1994	Paustian et al.
3,743,439 A	7/1973	Cann	D349,778 S	8/1994	Johnson et al.
D229,181 S	11/1973	Bledsoe	D350,191 S	8/1994	Tsuji
3,777,650 A	12/1973	Wenig	5,333,830 A	8/1994	Millen
3,785,271 A	1/1974	Joy	D350,409 S	9/1994	Johnson et al.
3,788,207 A	1/1974	Doherty	D352,564 S	11/1994	Marischen
3,861,894 A	1/1975	Marsh	D357,732 S	4/1995	Spechts et al.
3,875,678 A	4/1975	Vits	D361,375 S	8/1995	Gallagher et al.
			D362,059 S	9/1995	Wojcik
			D366,521 S	1/1996	Wijaranakula
			D366,522 S	1/1996	Lagace et al.
			D367,924 S	3/1996	Patel et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

D372,767 S	8/1996	Borges		7,537,647 B2	5/2009	Adair et al.	
D372,775 S	8/1996	Schuler		D595,450 S *	6/2009	Ko	D26/120
D374,927 S	10/1996	Chabot		D595,830 S *	7/2009	Deng	D23/372
D375,298 S *	11/1996	Calfee	D14/451	D596,626 S *	7/2009	Andre	D14/240
D375,350 S	11/1996	Patel et al.		7,581,717 B1	9/2009	Thurkill	
D376,214 S	12/1996	Pinchuk		7,596,960 B2	10/2009	Bae	
D376,639 S	12/1996	Moore		D611,170 S *	3/2010	Hiner	D25/138
D376,842 S	12/1996	Franklin et al.		D617,889 S *	6/2010	Miyake	D23/385
D377,535 S	1/1997	Shulman		D618,782 S	6/2010	Zakula et al.	
5,601,485 A	2/1997	Gigola		D620,953 S *	8/2010	Andre	D14/203.3
D378,698 S	4/1997	Ukai et al.		D626,644 S	11/2010	Jacak et al.	
5,632,334 A	5/1997	Grinbergs et al.		D629,146 S *	12/2010	van den Akker	D26/89
D382,549 S	8/1997	Yoshimoto		7,850,513 B1	12/2010	Parker et al.	
D386,186 S	11/1997	Schnetzer et al.		D632,004 S *	2/2011	Waldmann	D26/76
D386,209 S	11/1997	Firestone et al.		D632,007 S *	2/2011	Kim	D26/120
D387,859 S	12/1997	Ukai et al.		D634,056 S *	3/2011	Hokazono	D26/89
D388,353 S	12/1997	Desborough et al.		D634,704 S *	3/2011	Tieleman	D13/102
D393,708 S	4/1998	Assadi		D635,238 S	3/2011	Zakula et al.	
D395,494 S	6/1998	Becker		D641,098 S *	7/2011	Wildner	D26/85
D396,275 S	7/1998	Pearson		D650,365 S *	12/2011	McManigal	D14/218
D398,417 S	9/1998	Fritzsche et al.		D653,323 S	1/2012	Jacak et al.	
5,820,247 A	10/1998	Schuler		D654,998 S	2/2012	Zakula et al.	
D401,682 S	11/1998	Galeazzi et al.		D655,403 S	3/2012	Zakula et al.	
D403,442 S	12/1998	Joss		D657,033 S *	4/2012	Chouji	D23/351
D403,787 S	1/1999	Van Belle		D663,887 S *	7/2012	Alvarez	D26/120
D404,508 S	1/1999	Marischen		D665,225 S	8/2012	Zakula et al.	
D405,207 S	2/1999	Mora		8,256,241 B2	9/2012	Ikeda et al.	
D407,473 S	3/1999	Wimbock		D668,374 S *	10/2012	Wauters	D26/89
D407,521 S	3/1999	Crosby		D678,995 S	3/2013	Hoshino et al.	
5,879,232 A	3/1999	Luter et al.		D686,595 S *	7/2013	Andre	D14/217
D409,449 S	5/1999	Cornelissen		D693,946 S *	11/2013	Kim	D25/157
5,918,972 A	7/1999	Van Belle		D701,952 S	4/2014	Hoshino et al.	
D412,566 S	8/1999	Taras et al.		D705,201 S *	5/2014	Isaacs	D14/240
D414,253 S	9/1999	Kobayashi et al.		D706,916 S	6/2014	Penlesky et al.	
5,971,847 A	10/1999	Webb		D707,858 S *	6/2014	Choi	D25/157
D416,315 S	11/1999	Nanjo		D713,950 S *	9/2014	Jepson	D23/388
D416,349 S	11/1999	Pahl		8,864,447 B1	10/2014	Humphrey	
D417,307 S	11/1999	Pahl		8,967,832 B2 *	3/2015	Zakula	F24F 13/078 362/294
D418,909 S	1/2000	Mockett		D726,690 S *	4/2015	Andre	D14/217
D420,121 S	2/2000	Felix-Flender		D727,538 S *	4/2015	Smith	D25/138
6,027,406 A	2/2000	Yazici		9,022,846 B1	5/2015	Tom	
D424,672 S	5/2000	Nanjo		9,028,212 B1	5/2015	Tom	
D425,974 S	5/2000	Esty et al.		9,103,104 B1	8/2015	Tom	
D426,124 S	6/2000	Kassalen et al.		9,131,814 B2	9/2015	Nakamura et al.	
D426,292 S	6/2000	Nanjo		D742,581 S *	11/2015	Akiyama	D26/113
D426,657 S	6/2000	Joss		9,182,138 B2	11/2015	Foreman et al.	
D427,009 S	6/2000	Iyengar et al.		9,188,132 B1	11/2015	Tom	
D427,303 S	6/2000	Brown		D745,480 S *	12/2015	Mathews	D14/125
D428,645 S	7/2000	Rossmann et al.		D746,488 S *	12/2015	Luchini	D25/138
6,227,962 B1	5/2001	Orendorff		9,212,668 B2	12/2015	Deng et al.	
6,261,175 B1	7/2001	Larson et al.		D752,200 S *	3/2016	Huang	D23/385
6,464,579 B1	10/2002	Salazar		D754,319 S *	4/2016	Park	D23/385
6,488,579 B2	12/2002	Larson et al.		9,303,859 B2	4/2016	Horng et al.	
6,503,060 B1	1/2003	Kamada et al.		9,303,888 B2	4/2016	Karst et al.	
6,537,146 B1	3/2003	Haynes		D759,800 S	6/2016	Adrian et al.	
6,651,454 B1	11/2003	Spiegel		D762,290 S *	7/2016	Jepson	D23/342
6,653,566 B2	11/2003	Petak et al.		D763,262 S *	8/2016	Hallar	D14/434
6,723,428 B1	4/2004	Foss et al.		D766,413 S *	9/2016	Zhou	D23/354
6,750,760 B2	6/2004	Albritton et al.		D775,316 S *	12/2016	Nakai	D23/351
D497,984 S *	11/2004	Tokunaga	D23/364	D778,424 S	2/2017	Jonas et al.	
6,889,948 B2	5/2005	Melancon et al.		D778,425 S	2/2017	Jonas et al.	
6,979,169 B2	12/2005	Penlesky et al.		D779,050 S	2/2017	Jonas et al.	
D514,221 S	1/2006	Vladika		D782,075 S *	3/2017	Kugler	D25/138
D535,431 S	1/2007	Roland		D784,511 S	4/2017	Jonas et al.	
D538,422 S *	3/2007	Hooijmaaijers	D23/387	D784,512 S	4/2017	Jonas et al.	
7,203,416 B2	4/2007	Craw et al.		D788,948 S *	6/2017	Kugler	D25/138
D557,781 S	12/2007	Kim et al.		D799,677 S	10/2017	Jonas et al.	
D560,786 S *	1/2008	Yoo	D23/351	D799,678 S	10/2017	Jonas et al.	
D560,787 S *	1/2008	Yoo	D23/351	D799,679 S	10/2017	Jonas et al.	
7,328,478 B2	2/2008	Jenkins		D800,294 S	10/2017	Jonas et al.	
D570,983 S	6/2008	Deng		D800,295 S	10/2017	Jonas et al.	
D575,386 S	8/2008	Jacak et al.		D800,892 S	10/2017	Jonas et al.	
D584,393 S *	1/2009	Miyake	D23/370	D803,424 S *	11/2017	Kim	D25/138
D584,394 S *	1/2009	Miyake	D23/370	D804,711 S *	12/2017	Leadford	D26/120
D586,456 S	2/2009	Guthrie		D811,484 S *	2/2018	Sumii	D21/332
				D815,724 S	4/2018	Jonas et al.	
				D816,206 S	4/2018	Jonas et al.	
				D821,386 S *	6/2018	Dou	D14/314

(56)

References Cited

U.S. PATENT DOCUMENTS

D822,821	S	7/2018	Jonas et al.	
D830,526	S *	10/2018	Niki	D23/351
D832,416	S *	10/2018	Huang	D23/370
D837,966	S	1/2019	Adrian et al.	
D842,449	S	3/2019	Chang et al.	
D844,765	S *	4/2019	Zhang	D23/364
D857,872	S	8/2019	Shimada et al.	
D861,193	S *	9/2019	Rapp	E04F 15/181 D25/138
D864,145	S *	10/2019	Zhang	D14/155
D865,154	S *	10/2019	Takagaki	D23/385
D901,661	S *	11/2020	Riegelsberger	D23/364
D903,843	S *	12/2020	Bottaro	D23/351
D908,861	S *	1/2021	Appiahene-Agyei	D23/411
2004/0089782	A1 *	5/2004	Eliason	G06F 3/0395 248/346.01
2013/0088855	A1	4/2013	Ye	
2015/0117034	A1	4/2015	Hornig	
2015/0125292	A1	5/2015	Karst	
2016/0069561	A1	3/2016	Jonas	
2018/0066838	A1 *	3/2018	Huang	F04D 25/088

OTHER PUBLICATIONS

Emerson Environment Products, Whole House Fan and Shutter System Owners Manual, Dec. 1982.
 Photographs of Panasonic Ventilating Fan, Model FV-11, VHL1, available prior to Jan. 2, 2008, 3 pages.
 Spartan Electric Company, Direct Drive Whole House Fans Publication, available prior to Jan. 2, 2008.
 “Whirlpool 30 and 36 Range Hood Models UXT3030AY/UXT3036AY.” Installation Instructions and Use & Care Guide, [online], Retrieved from the Internet: <http://www.whirpool.ca/digitalassests/UXT3030AYB/US%20and%20Care_EN.pdf>, 2011. 28 pages.

“Maytag 30 in. Non-Vented Range Hood in Stainless Steel,” Model# UXT4030AYS, Home Depot, [online], Retrieved from the Internet on Sep. 23, 2013: <http://www.homedepot.com/p/Maytag-30-in-Non-Vented-Range-Hood-in-Stainless-Steel-UXT_4030AYS/202832999#customer_reviews>, 5 pages.

“Finnleo Steam Sauna Ventilation Wood Grill,” online, Retrieved from the Internet: <<https://www.tineye.com/search/8ff8db465e46f58bcad482160583c-b539dc23fa4/>>, Jun. 6, 2012.

Grille Images, image post date Nov. 23, 2013, site visited May 14, 2016, [online], <<https://www.tineye.com/search/ea95b48bdc1fcel5b6d68e4fbc33c-0e4e7566460/>>.

Napoleon Prestige Pro 450-Natural Gas, image post date Apr. 5, 2014, site visited May 15, 2016, [online], <<http://web.archive.org/web/20140405111728/http://www.bbqworld.co.uk/napoleon-450-natural-gas.asp>>.

“Ultra Green Series,” [online], Retrieved from Internet: <<http://web.archive.org/web/20140416053348/http://www.borancom/products/filter/ultra-406c-abf1-ed72241eb706>>, Apr. 16, 2014.

“Airvent 435103 Kitchen Extractor Fan,” [online], Retrieved from Internet: <<https://www.amazon.co.uk/Airvent-435103-Kitchen-Extractor-1-50mm/dp/B0085TQ75U/ref=pd.sub.--cp.sub.--107.sub.-3?ie=UTF8&refRID=1MXRP1-Q1QR5H6NZ1MR7C>>, May 14, 2014.

Air Vent Grille Cover, image post date Nov. 9, 2014, site visited May 14, 2016, [online], <<https://www.tineye.com/search/232b8f674998285163e7a3de47a03ed0ef9b1dc-6/>>.

“Manrose FF100P Bathroom Fan,” [online], Retrieved from Internet: <<https://www.tineye.com/search63988ff8b950dad9cb1aaec51119050bdd00cf2-1/?pluginver=>>>, Dec. 12, 2014.

NuTone 791LEDNT Fan/Light.

Ex Parte Quayle Action issued to U.S. Appl. No. 29/689,759, mailed Sep. 7, 2021 (18 pages).

* cited by examiner

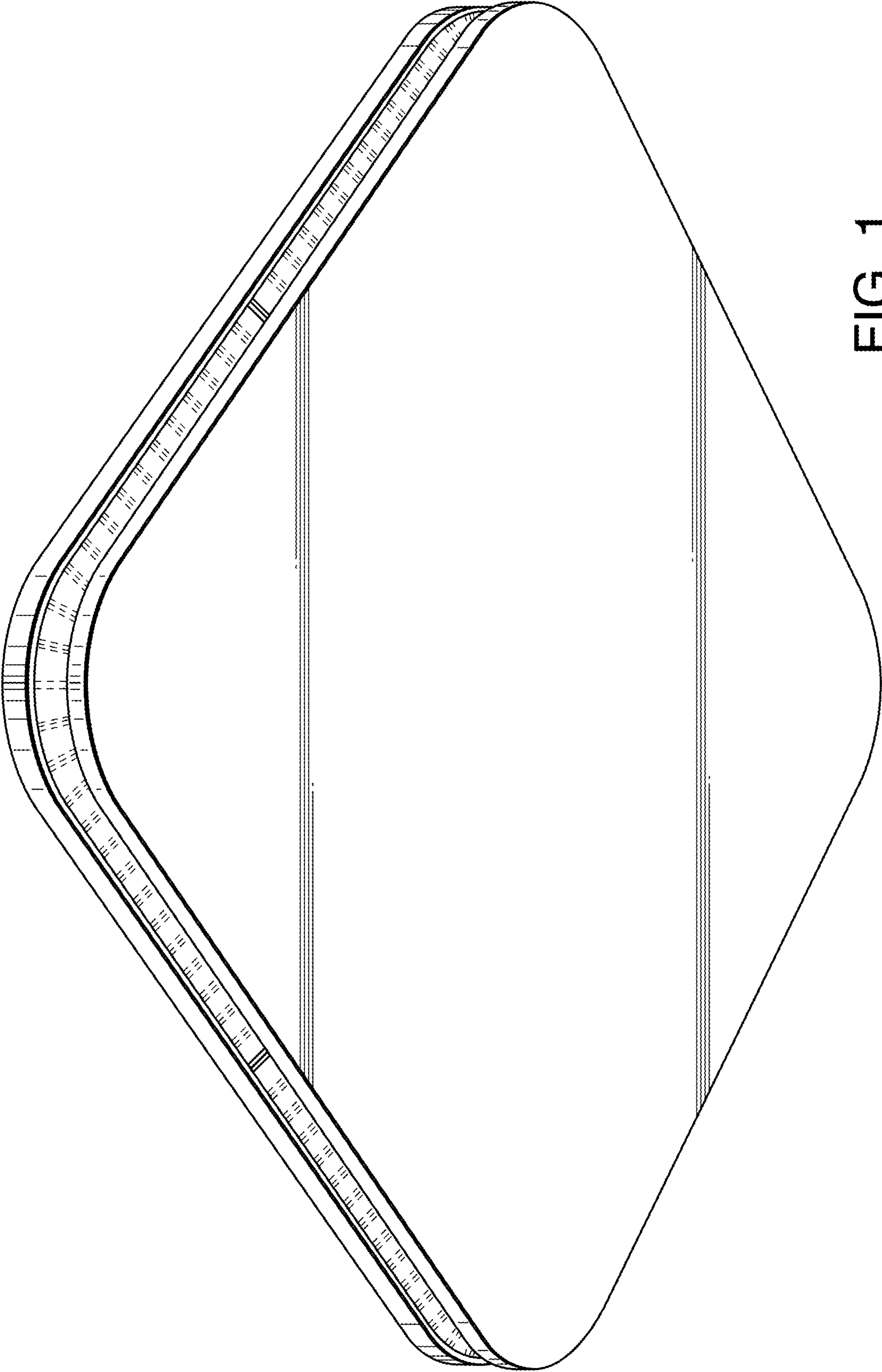


FIG. 1

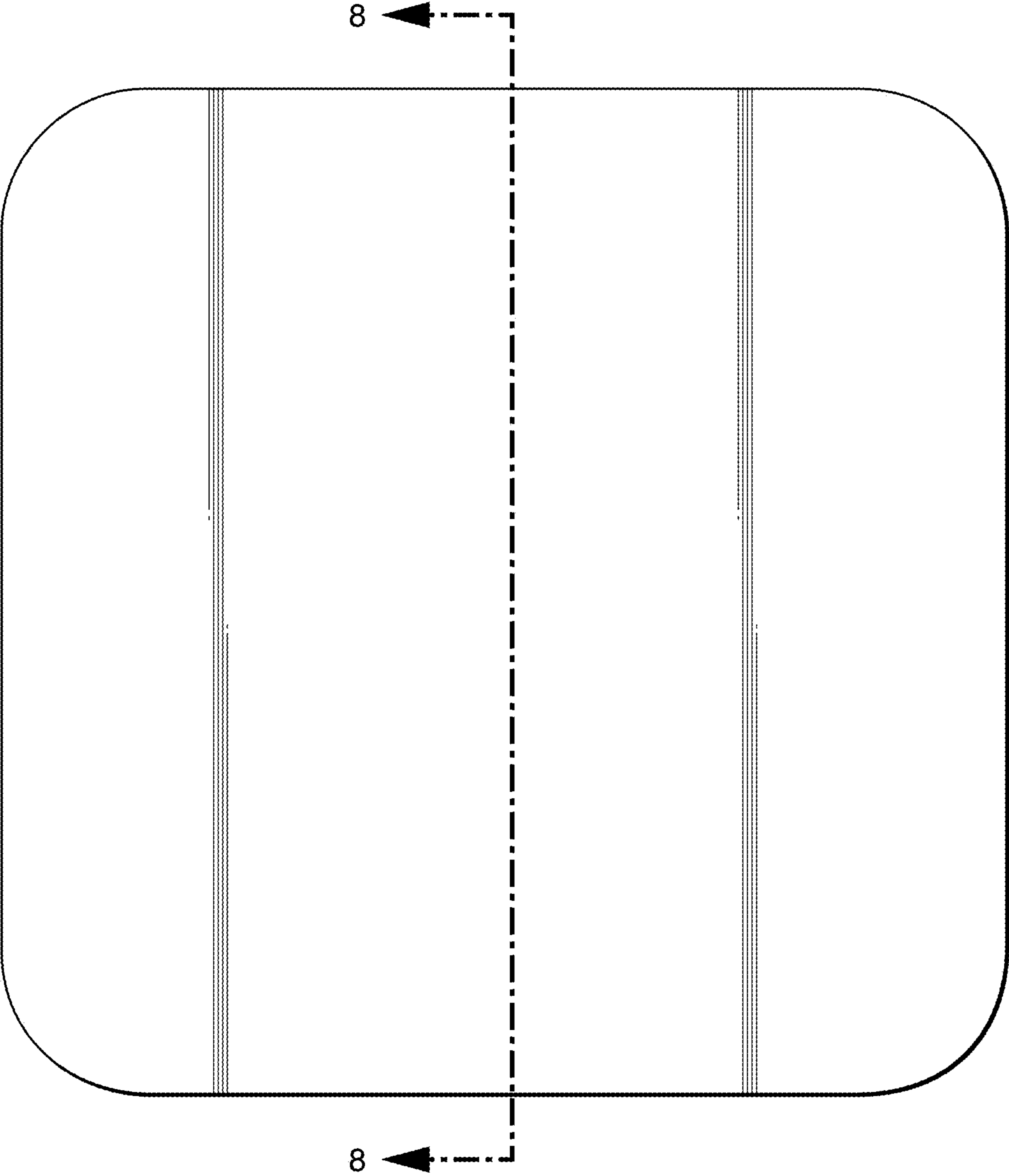


FIG. 2

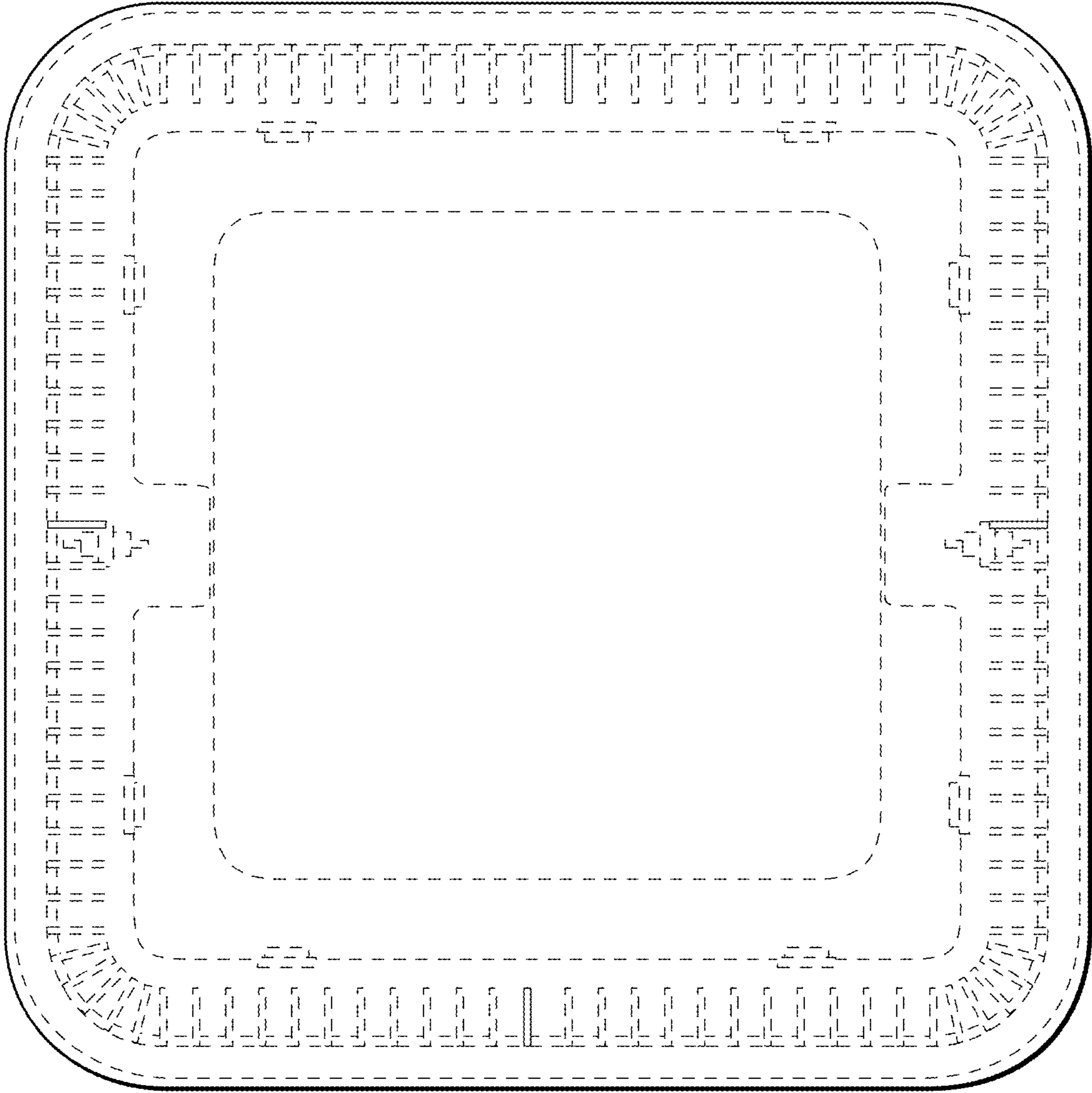


FIG. 3

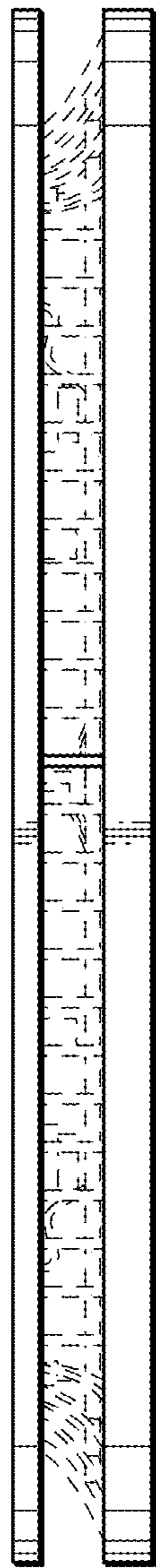


FIG. 4

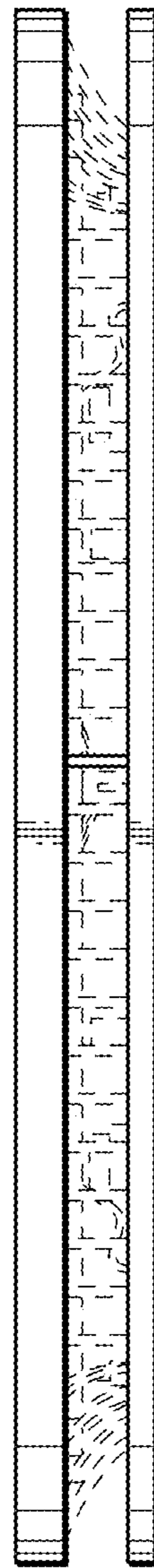


FIG. 5



FIG. 6

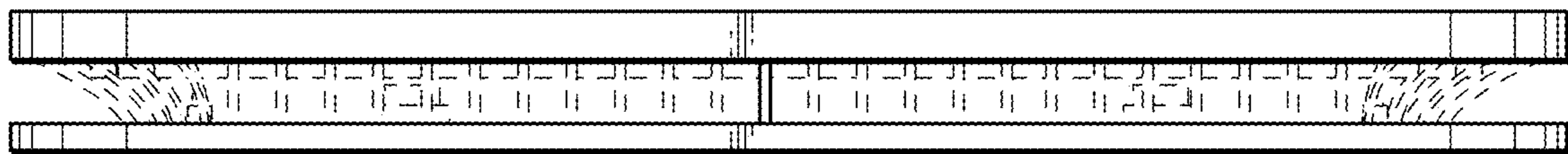


FIG. 7

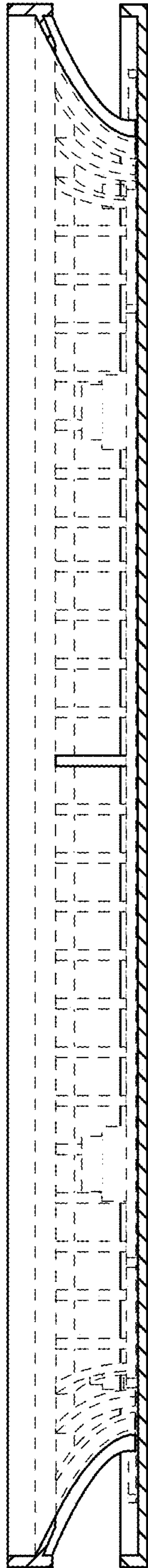


FIG. 8