



US00D902372S

(12) **United States Design Patent** (10) **Patent No.:** **US D902,372 S**
Puffer et al. (45) **Date of Patent:** **** Nov. 17, 2020**

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

1,941,450 A 1/1934 Sylvan
2,019,867 A 11/1935 Nelson
2,021,086 A 11/1935 Oskamp
2,108,283 A 2/1938 Drew et al.
D107,399 S 5/1938 Fordyce
D109,887 S 5/1938 Fordyce
2,182,690 A 12/1939 Cole
D118,359 S 1/1940 Arenberg
(Continued)

(73) Assignee: **Broan-NuTone LLC**, Hartford, WI (US)

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

(21) Appl. No.: **29/671,510**

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

(51) **LOC (12) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/370; D23/385**

(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
See application file for complete search history.

(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 Osburn
1,713,101 A 5/1929 Starrett
1,886,841 A 11/1932 Searles
1,895,642 A 1/1933 Preble

OTHER PUBLICATIONS

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

(Continued)

Primary Examiner — Cathron C Brooks

Assistant Examiner — Sharon S Oum

(74) *Attorney, Agent, or Firm* — Barnes & Thornburg LLP

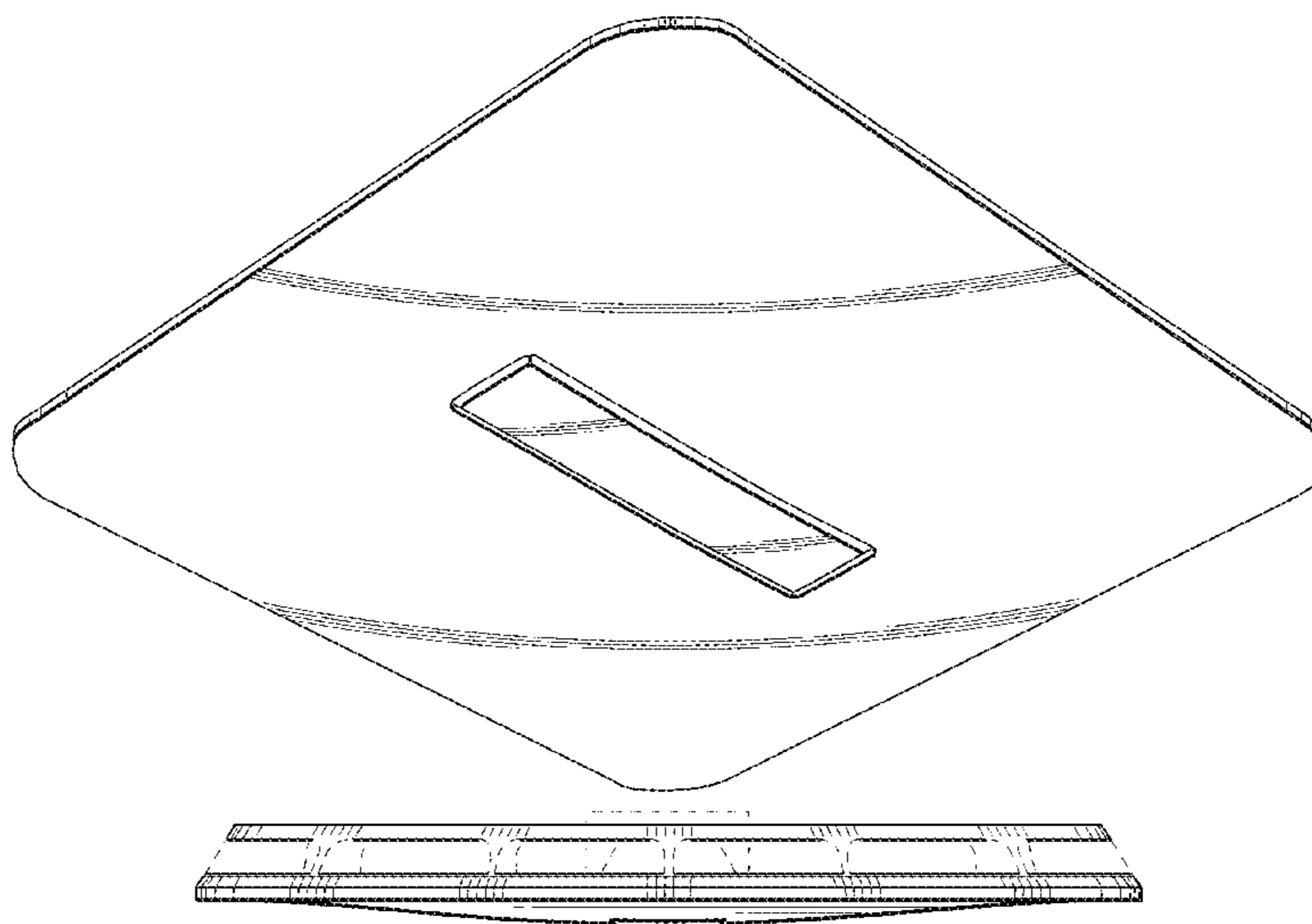
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a bottom perspective view of the ventilation grille of the instant invention;
FIG. 2 is a top perspective view of the grille of FIG. 1;
FIG. 3 is a bottom view of the grille of FIG. 1;
FIG. 4 is a top view of the grille of FIG. 1;
FIG. 5 is a left side view of the grille of FIG. 1;
FIG. 6 is a right side view of the grille of FIG. 1;
FIG. 7 is a front side view of the grille of FIG. 1; and,
FIG. 8 is a rear side view of the grille of FIG. 1.
The broken lines illustrate portions of the ventilation grille that form no part of the claimed design.
The regularly spaced and short vertical lines on the sides of the ventilation grille are surface shading and are not surface ornamentation.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D120,266 S	4/1940	Fischer	3,743,439 A	7/1973	Cann
D120,772 S	5/1940	Arenberg	D229,181 S	11/1973	Bledsoe
D120,773 S	5/1940	Arenberg	3,777,650 A	12/1973	Wenig
2,220,127 A	11/1940	Slayter	3,785,271 A	1/1974	Joy
2,222,081 A	11/1940	Leigh	3,788,207 A	1/1974	Doherty
D126,128 S	3/1941	Eallman	3,861,894 A	1/1975	Marsh
2,240,617 A	5/1941	Harrigan	3,875,678 A	4/1975	Vits
2,278,581 A	4/1942	Dexter	3,926,537 A	12/1975	Piper
D132,865 S	6/1942	Drollinger	3,952,638 A	4/1976	Felter et al.
2,325,657 A	8/1943	Burkness	D244,764 S	6/1977	Grubauer
D153,313 S	4/1949	Phillips	D244,854 S	6/1977	Salamone
2,472,748 A	6/1949	Labus	4,073,597 A	2/1978	Barnhart et al.
2,483,377 A	9/1949	Young	4,115,082 A	9/1978	Newell
D157,014 S	1/1950	Walker	4,141,703 A	2/1979	Mulchi
2,576,860 A	11/1951	Shapiro	4,203,332 A	5/1980	Corsetti
D165,982 S	2/1952	Kennedy	D256,047 S	7/1980	Wormington
D166,324 S	4/1952	Kurth	D257,060 S	9/1980	Mann
D171,505 S	2/1954	Krueger	D258,083 S	1/1981	Gammell
2,668,491 A	2/1954	Gerlitz	4,252,547 A	2/1981	Johnson
2,673,514 A	3/1954	Hanks	D261,803 S	11/1981	Bohanon
D173,120 S	9/1954	Levenhagen	D262,457 S	12/1981	Swales
2,689,906 A	9/1954	Corbett	4,319,898 A	3/1982	Maierhofer
2,697,163 A	12/1954	Spear	4,335,647 A	6/1982	Timmons
2,710,573 A	6/1955	Marker	4,336,749 A	6/1982	Barnhart et al.
2,780,981 A	2/1957	Miller	D267,828 S	2/1983	Cohen
2,790,375 A	4/1957	Broberg	D268,952 S	5/1983	Anderson
2,799,213 A	7/1957	Hansen	4,382,440 A	5/1983	Kapp et al.
2,800,069 A	7/1957	Smith	4,385,550 A	5/1983	Steiner et al.
D180,727 S	8/1957	Bourner	4,385,911 A	5/1983	Popeil et al.
2,811,094 A	10/1957	Auer	4,393,631 A *	7/1983	Krent E04B 1/86
2,824,429 A	2/1958	Zucker			181/286
2,831,550 A	4/1958	Bub	4,406,216 A	9/1983	Hott et al.
D183,117 S	7/1958	Coleman	D271,984 S	12/1983	Nelson et al.
2,875,678 A	3/1959	Shepherd	D275,988 S	10/1984	Walker
2,911,900 A	11/1959	Rudy	D276,282 S	11/1984	Burg
D188,212 S *	6/1960	Ruppe D26/120	D277,298 S	1/1985	Nelson
2,939,377 A	6/1960	Stach	D277,299 S	1/1985	Nelson
2,963,956 A	12/1960	Hill	4,510,851 A	4/1985	Sarnosky et al.
2,987,258 A	6/1961	North	D282,275 S	1/1986	Price
2,996,972 A	8/1961	Johansson	D282,972 S	3/1986	Castor et al.
3,001,056 A	9/1961	Spear	4,594,940 A	6/1986	Wolbrink et al.
3,002,676 A	10/1961	Papsdorf	4,610,705 A	9/1986	Sarnosky et al.
D192,312 S	2/1962	Hart	D286,446 S	10/1986	Caroli et al.
3,028,475 A	4/1962	Nash	4,628,802 A	12/1986	Steiner et al.
3,045,579 A	7/1962	Jenn et al.	D287,888 S	1/1987	Castor et al.
D193,868 S	10/1962	Bloomfield	D288,007 S	1/1987	Jonas et al.
3,064,548 A	11/1962	Field	D288,396 S	2/1987	Ritman
3,068,341 A	12/1962	Ortiz et al.	4,681,024 A	7/1987	Ivey
3,075,335 A	1/1963	Bandlow	4,722,266 A	2/1988	Deckert
3,097,287 A	7/1963	Knoll et al.	D295,675 S	5/1988	Demarest
3,101,662 A	8/1963	Alldritt	4,754,697 A	7/1988	Asselbergs
D196,618 S	10/1963	Hammes	4,776,798 A	10/1988	Crawford
D199,045 S	9/1964	Everts	D300,777 S	4/1989	Bales et al.
3,211,080 A	10/1965	Rader	D300,847 S	4/1989	Lin
3,212,425 A	10/1965	Hazen et al.	4,862,334 A	8/1989	Ivey et al.
3,215,828 A	11/1965	Bonvallet et al.	D303,436 S	9/1989	Clyde-Mason
3,249,037 A	5/1966	Stalker	4,867,640 A	9/1989	Penlesky et al.
3,250,063 A	5/1966	Andrews	4,991,496 A	2/1991	Kuno et al.
3,256,241 A	6/1966	Ikeda et al.	D315,790 S	3/1991	Koessler
3,276,597 A	10/1966	Mesek et al.	D322,667 S	12/1991	Fukuda et al.
3,326,112 A	6/1967	Sadlow et al.	D323,209 S	1/1992	Fukumoto et al.
3,332,334 A	7/1967	Melzer	D323,554 S	1/1992	Hoyt et al.
3,347,025 A	10/1967	Wiley	D325,434 S	4/1992	Dosmann
3,391,689 A	7/1968	Roger	D325,651 S	4/1992	Sonneman
3,438,180 A	4/1969	Klouda	D328,650 S	8/1992	Jones
3,460,322 A	8/1969	Rivers et al.	D330,585 S	10/1992	Saito et al.
3,572,234 A	3/1971	Schoenthaler	D331,458 S	12/1992	Saito et al.
3,577,710 A	5/1971	Feldman	D331,638 S	12/1992	Vamberszky et al.
3,606,593 A	9/1971	Steiner	D334,053 S	3/1993	Cook
3,630,007 A	12/1971	Neumann	5,197,920 A	3/1993	Ganse
3,636,306 A	1/1972	Bumpus	D334,977 S	4/1993	Avari
3,665,838 A	5/1972	Shepherd	D336,895 S	6/1993	Rogov
3,692,977 A	9/1972	Duhamel et al.	D338,954 S	8/1993	Brock
3,698,833 A	10/1972	Cann et al.	D340,109 S	10/1993	Julien
3,732,030 A	5/1973	Mullings	D341,442 S	11/1993	Shapiro
			5,319,942 A	6/1994	Paustian et al.
			D349,778 S	8/1994	Johnson et al.
			D350,191 S	8/1994	Tsuji
			5,333,830 A	8/1994	Millen

(56)

References Cited

U.S. PATENT DOCUMENTS

D350,409 S 9/1994 Johnson et al.
 D352,564 S 11/1994 Marischen
 D357,732 S 4/1995 Spechts et al.
 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.
 D372,767 S 8/1996 Borges
 D372,775 S 8/1996 Schuler
 D374,927 S 10/1996 Chabot
 D375,350 S 11/1996 Patel et al.
 D376,214 S 12/1996 Pinchuk
 D376,639 S 12/1996 Moore
 D376,842 S 12/1996 Franklin et al.
 D377,535 S 1/1997 Shulman
 5,601,485 A 2/1997 Gigola
 D378,698 S 4/1997 Ukai et al.
 5,632,334 A 5/1997 Grinbergs et al.
 D382,549 S 8/1997 Yoshimoto
 D386,186 S 11/1997 Schnetzer et al.
 D386,209 S 11/1997 Firestone et al.
 D387,859 S 12/1997 Ukai et al.
 D388,353 S 12/1997 Desborough et al.
 D393,708 S 4/1998 Assadi
 D395,494 S 6/1998 Becker
 D396,275 S 7/1998 Pearson
 D398,417 S 9/1998 Fritzsche et al.
 5,820,247 A 10/1998 Schuler
 D401,682 S 11/1998 Galeazzi et al.
 D403,442 S 12/1998 Joss
 D403,787 S 1/1999 Van Belle
 D404,508 S 1/1999 Marischen
 D405,207 S 2/1999 Mora
 D407,473 S 3/1999 Wimbock
 D407,521 S 3/1999 Crosby
 5,879,232 A 3/1999 Luter et al.
 D409,449 S 5/1999 Cornelissen
 5,918,972 A 7/1999 Van Belle
 D412,566 S 8/1999 Taras et al.
 D414,253 S 9/1999 Kobayashi et al.
 5,971,847 A 10/1999 Webb
 D416,315 S 11/1999 Nanjo
 D416,349 S 11/1999 Pahl
 D417,307 S 11/1999 Pahl
 D418,909 S 1/2000 Mockett
 D420,121 S 2/2000 Felix-Flender
 6,027,406 A 2/2000 Yazici
 D424,672 S 5/2000 Nanjo
 D425,974 S 5/2000 Esty et al.
 D426,124 S 6/2000 Kassalen et al.
 D426,292 S 6/2000 Nanjo
 D426,657 S 6/2000 Joss
 D427,009 S 6/2000 Iyengar et al.
 D427,303 S 6/2000 Brown
 D428,645 S 7/2000 Rossman et al.
 6,227,962 B1 5/2001 Orendorff
 6,261,175 B1 7/2001 Larson et al.
 6,464,579 B1 10/2002 Salazar
 6,488,579 B2 12/2002 Larson et al.
 6,503,060 B1 1/2003 Kamada et al.
 6,537,146 B1 3/2003 Haynes
 6,651,454 B1 11/2003 Spiegel
 6,653,566 B2 11/2003 Petak et al.
 6,723,428 B1 4/2004 Foss et al.
 6,750,760 B2 6/2004 Albritton et al.
 D497,984 S * 11/2004 Tokunaga D23/364
 6,889,948 B2 5/2005 Melancon et al.
 6,979,169 B2 12/2005 Penlesky et al.
 D514,221 S * 1/2006 Vladika D23/412
 D531,301 S * 10/2006 Sinur D23/385
 7,203,416 B2 4/2007 Craw et al.
 D557,781 S * 12/2007 Kim D23/351
 7,328,478 B2 2/2008 Jenkins
 D584,393 S * 1/2009 Miyake D23/370

D584,394 S * 1/2009 Miyake D23/370
 D584,848 S * 1/2009 Menke D26/76
 D589,605 S * 3/2009 Reedy D23/388
 7,537,647 B2 5/2009 Adair et al.
 D595,830 S * 7/2009 Deng D23/372
 7,581,717 B1 9/2009 Thurlkill
 7,596,960 B2 10/2009 Bae
 D618,782 S 6/2010 Zakula et al.
 D626,644 S 11/2010 Jacak et al.
 7,850,513 B1 12/2010 Parker et al.
 D635,238 S 3/2011 Zakula et al.
 D653,323 S 1/2012 Jacak et al.
 D654,998 S * 2/2012 Zakula D23/371
 D655,403 S 3/2012 Zakula et al.
 D665,225 S 8/2012 Zakula et al.
 D678,995 S 3/2013 Hoshino et al.
 D701,952 S 4/2014 Hoshino et al.
 D706,916 S 6/2014 Penlesky et al.
 8,864,447 B1 10/2014 Humphrey
 9,022,846 B1 5/2015 Tom
 9,028,212 B1 5/2015 Tom
 9,103,104 B1 8/2015 Tom
 9,131,814 B2 9/2015 Nakamura et al.
 9,182,138 B2 11/2015 Foreman et al.
 9,188,132 B1 11/2015 Tom
 9,212,668 B2 12/2015 Deng et al.
 D752,200 S * 3/2016 Huang D23/385
 D754,319 S * 4/2016 Park D23/385
 9,303,859 B2 4/2016 Horng et al.
 9,303,888 B2 4/2016 Karst et al.
 D759,800 S 6/2016 Adrian et al.
 D766,413 S * 9/2016 Zhou D23/354
 D778,424 S 2/2017 Jonas et al.
 D778,425 S 2/2017 Jonas et al.
 D779,050 S 2/2017 Jonas et al.
 D784,511 S 4/2017 Jonas et al.
 D784,512 S 4/2017 Jonas et al.
 D799,677 S * 10/2017 Jonas D23/385
 D799,678 S * 10/2017 Jonas D23/385
 D799,679 S * 10/2017 Jonas D23/385
 D800,294 S 10/2017 Jonas et al.
 D800,295 S * 10/2017 Jonas D23/385
 D800,892 S 10/2017 Jonas et al.
 D815,724 S 4/2018 Jonas et al.
 D816,206 S 4/2018 Jonas et al.
 D822,821 S 7/2018 Jonas et al.
 D823,531 S * 7/2018 Chen D26/120
 D829,968 S * 10/2018 Momin D26/120
 D837,966 S 1/2019 Adrian et al.
 D842,449 S 3/2019 Chang et al.
 D883,467 S * 5/2020 Jonas D23/385
 2013/0088855 A1 4/2013 Ye
 2015/0117034 A1 4/2015 Horng
 2015/0125292 A1 5/2015 Karst
 2016/0069561 A1 3/2016 Jonas

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.whirlpool.ca/digitalassests/UCT3030AYB/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.

(56)

References Cited

OTHER PUBLICATIONS

Grille Images, image post date Nov. 23, 2013, site visited May 14, 2016, [online], <<https://www.tineye.com/search/ea95b48bdc1fce15b6d68e4fbe33c-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/napoleon-prestige-pro-450-natural-gas.asp>>.

“Ultra Green Series,” [online], Retrieved from Internet: <<http://web.archive.org/web/20140416053348/http://www.boran.com/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 FF 100P Bathroom Fan,” [online], Retrieved from Internet: <<https://tineye.com/search63988ff8b950dad9cb1aaec51119050bdd00cf2-1/?pluginver=>>>, Dec. 12, 2014.

NuTone 791LEDNT Fan/Light.

* cited by examiner

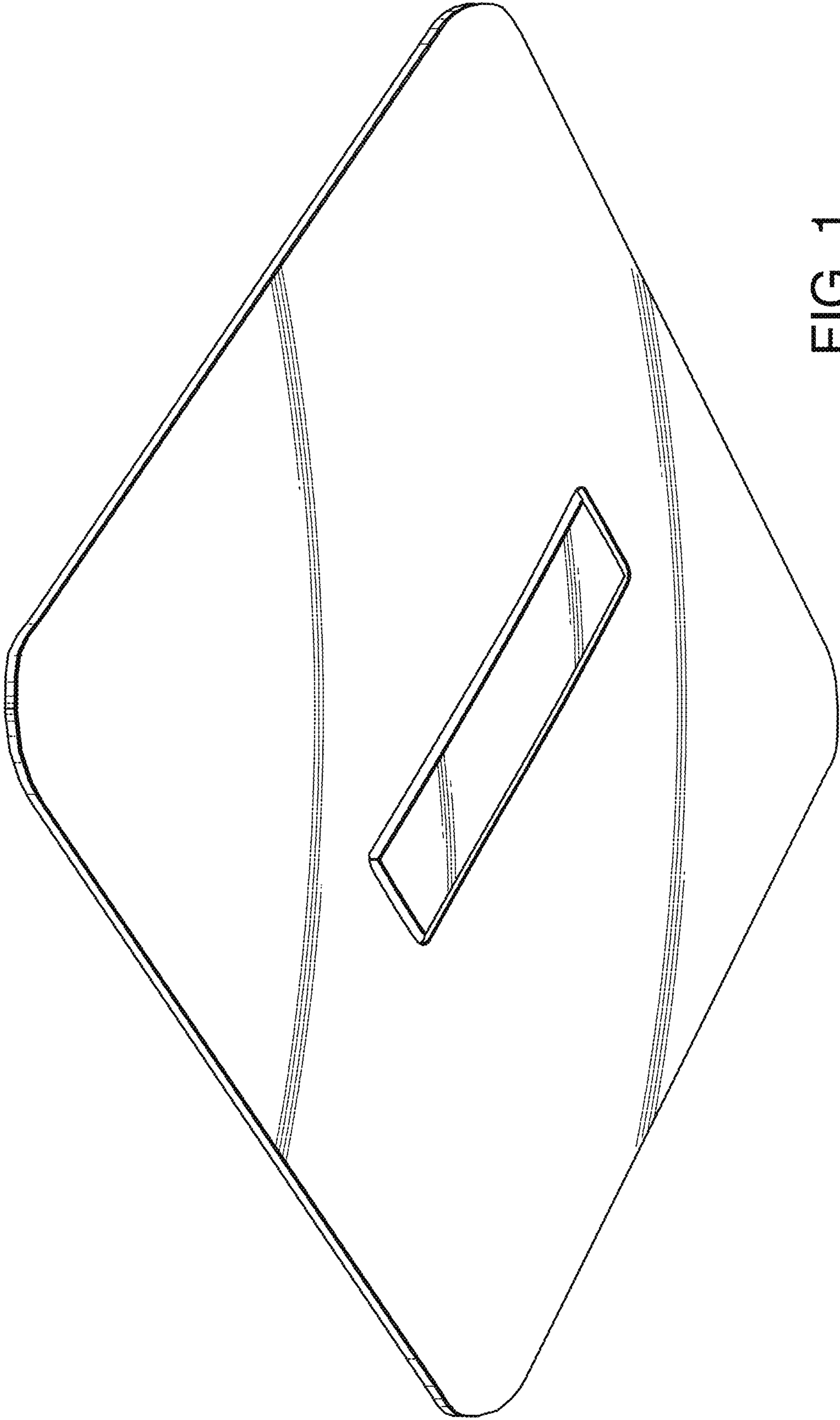


FIG. 1

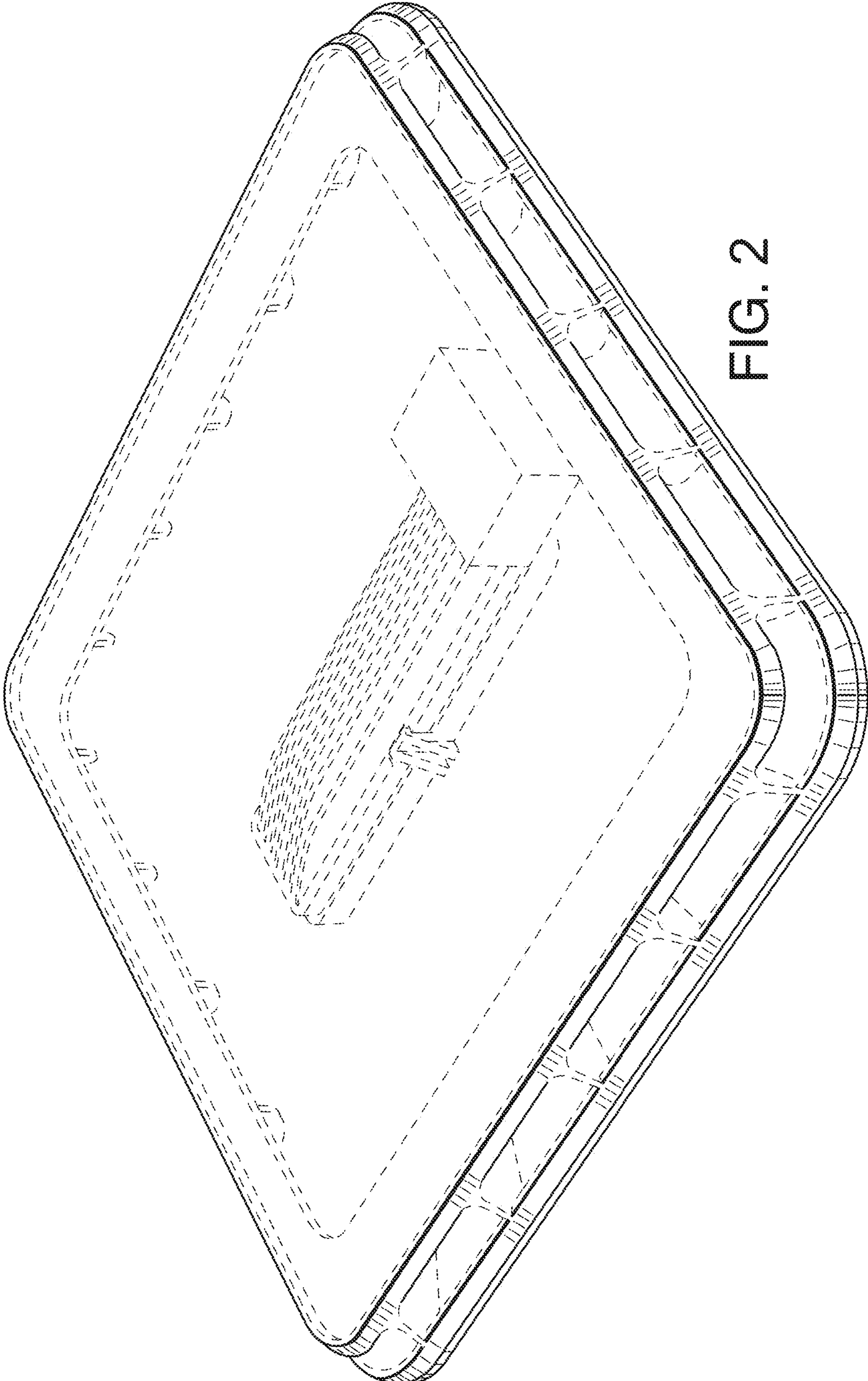


FIG. 2

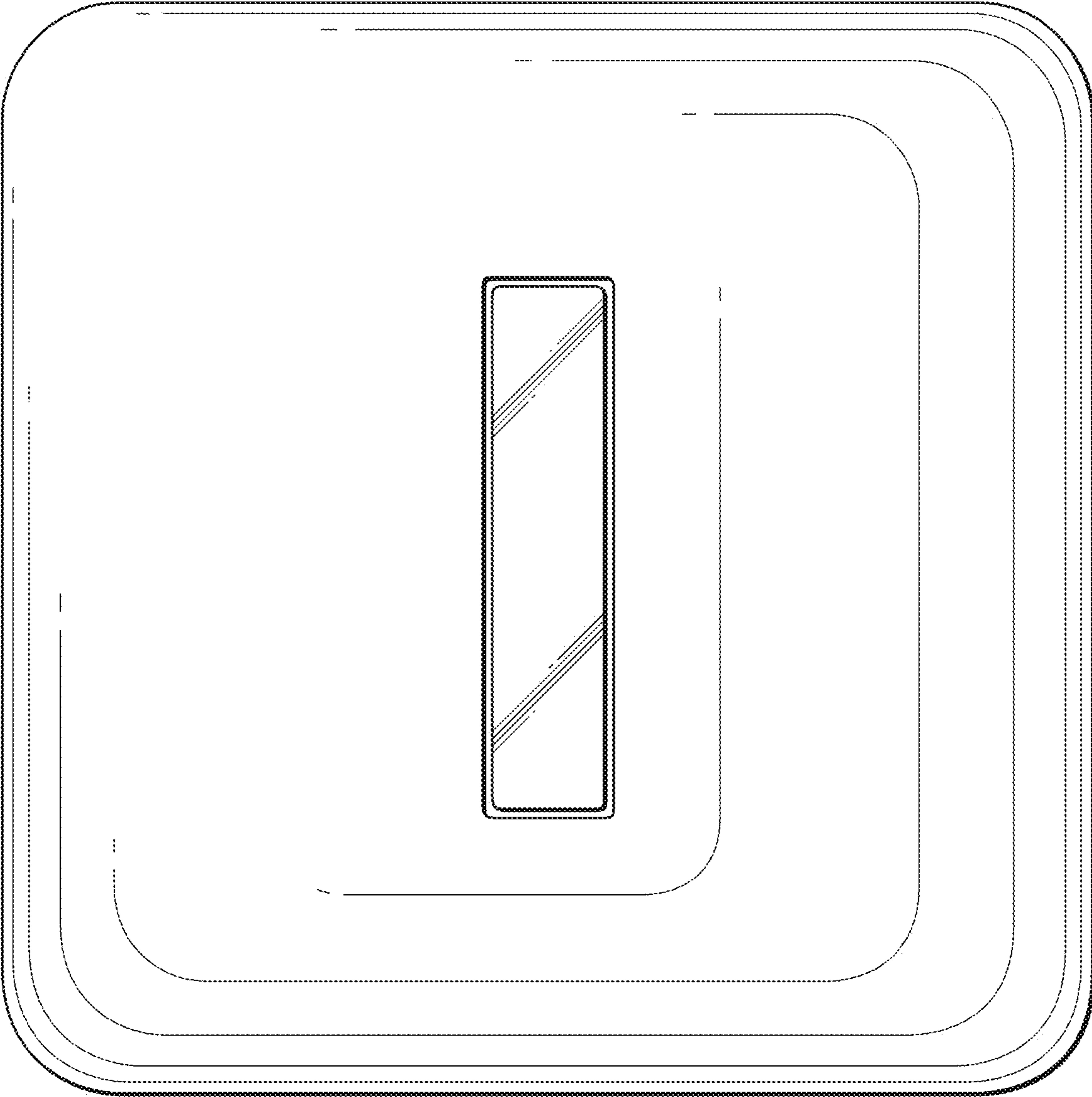


FIG. 3

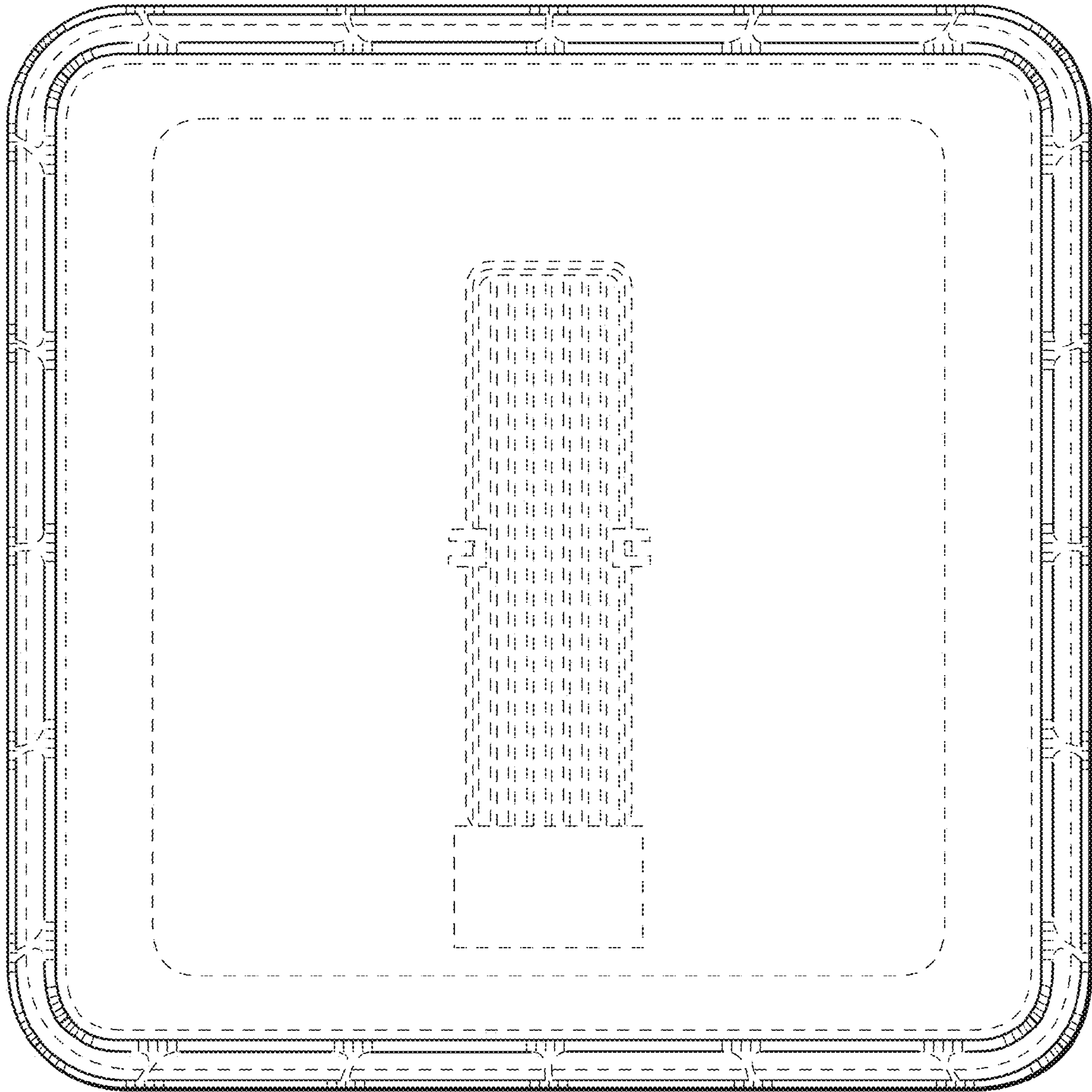


FIG. 4

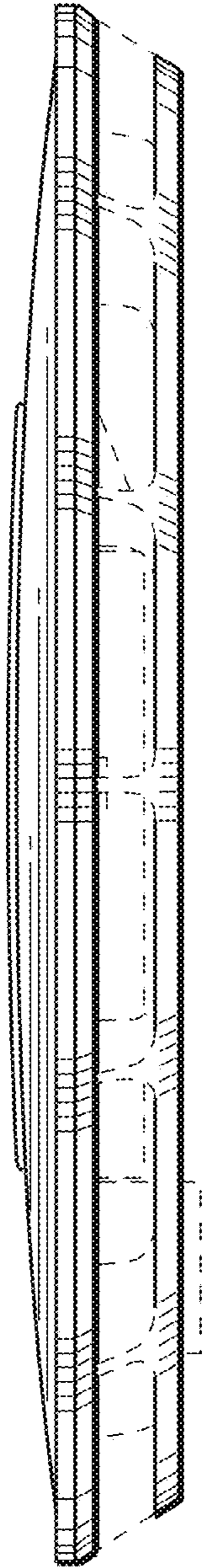


FIG. 5

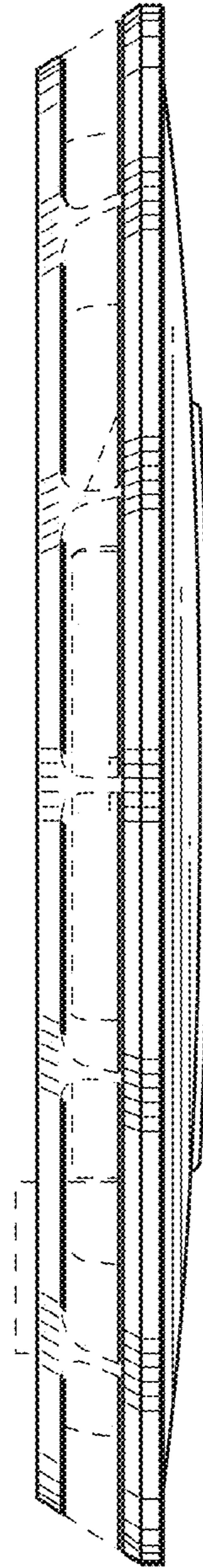


FIG. 6

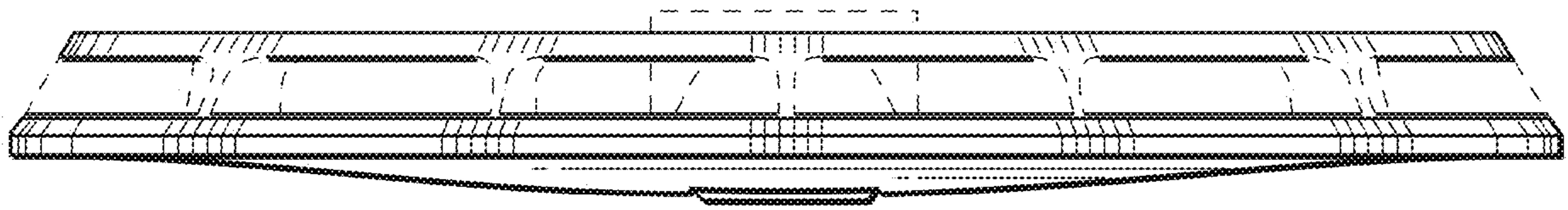


FIG. 7

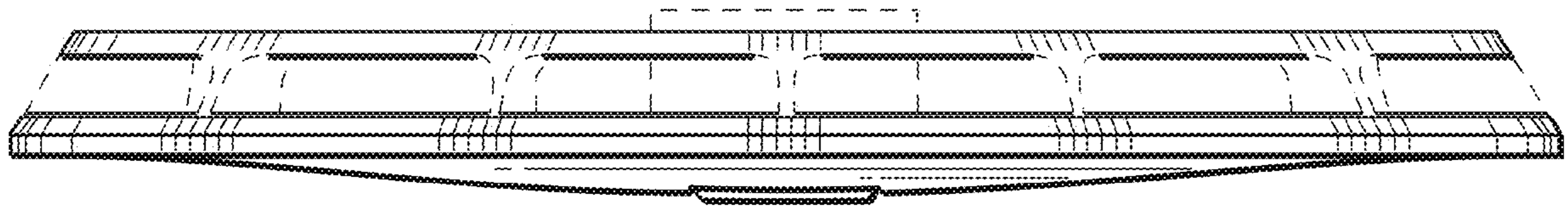


FIG. 8