



US00D965789S

(12) **United States Design Patent** (10) **Patent No.:** **US D965,789 S**
Al-Ali et al. (45) **Date of Patent:** **** Oct. 4, 2022**

(54) **BLOOD PRESSURE MONITOR**
(71) Applicant: **Masimo Corporation**, Irvine, CA (US)
(72) Inventors: **Ammar Al-Ali**, San Juan Capistrano, CA (US); **Chad A. DeJong**, Los Angeles, CA (US); **Valery G. Telfort**, Irvine, CA (US); **Kesu Wang**, Irvine, CA (US)

4,960,128 A 10/1990 Gordon et al.
4,964,408 A 10/1990 Hink et al.
D324,570 S 3/1992 Arioka et al.
D334,973 S 4/1993 Valentine et al.
D346,798 S 5/1994 Nagele
5,319,355 A 6/1994 Russek
5,337,744 A 8/1994 Branigan
(Continued)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **Masimo Corporation**, Irvine, CA (US)
(**) Term: **15 Years**

EP 3 366 211 8/2018
EP 3 384 827 10/2018
(Continued)

(21) Appl. No.: **29/789,219**
(22) Filed: **Sep. 9, 2021**

OTHER PUBLICATIONS

International Search Report and Written Opinion received in PCT Application No. PCT/US2020/028542 dated Sep. 7, 2020 in 19 pages.

(Continued)

Related U.S. Application Data

(63) Continuation of application No. 29/734,321, filed on May 11, 2020, now Pat. No. Des. 933,232.
(51) **LOC (13) Cl.** **24-02**
(52) **U.S. Cl.**
USPC **D24/165**
(58) **Field of Classification Search**
USPC D24/107, 164, 165-169, 186, 187;
D14/341, 344
CPC A61B 5/0402; A61B 5/0404; A61B 5/021;
A61B 5/024; A61B 5/02438; A61B
5/681; A61B 2560/0205; A61B
2560/0462
See application file for complete search history.

Primary Examiner — Anhdao Doan

(74) *Attorney, Agent, or Firm* — Knobbe, Martens, Olson & Bear, LLP

(57) **CLAIM**

The ornamental design for a blood pressure monitor, as shown and described.

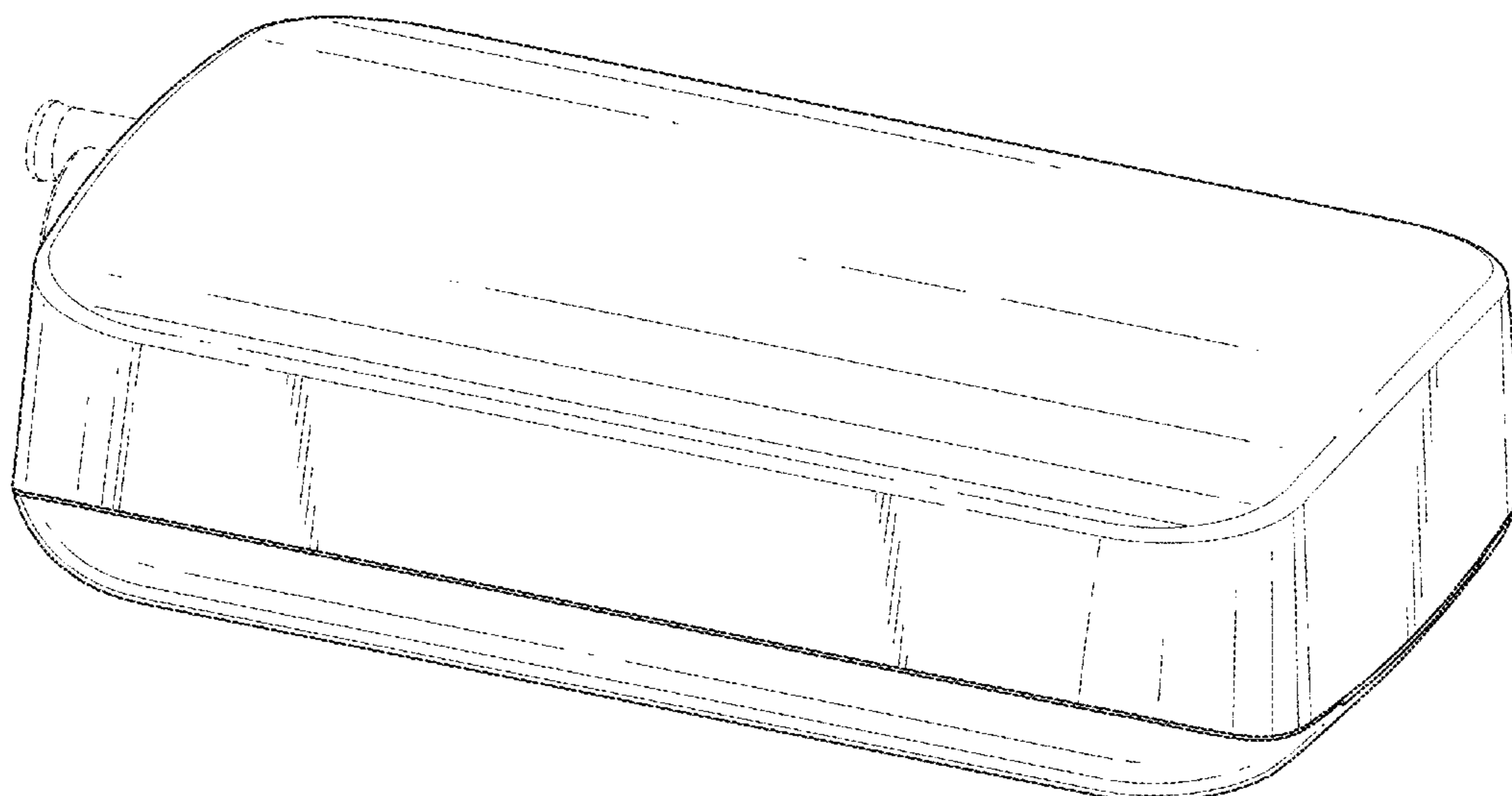
DESCRIPTION

FIG. 1 is a perspective view of a blood pressure monitor embodying our new design;
FIG. 2 is top view thereof;
FIG. 3 is bottom view thereof;
FIG. 4 is a side view thereof;
FIG. 5 is another side view thereof;
FIG. 6 is a front view thereof; and,
FIG. 7 is a back view thereof.
The broken lines illustrate portions of the patient monitor that form no part of the claimed design.

1 Claim, 4 Drawing Sheets

(56) **References Cited**
U.S. PATENT DOCUMENTS

2,985,172 A 5/1961 Jones
3,434,651 A 3/1969 Stec
4,353,372 A 10/1982 Ayer
D278,363 S 4/1985 Schenkel et al.
D295,383 S 4/1988 Anderson et al.
D297,460 S 8/1988 Inoue et al.



(56)

References Cited

U.S. PATENT DOCUMENTS

5,341,805	A	8/1994	Stavridi et al.	D471,444	S	3/2003	Kim et al.
D353,195	S	12/1994	Savage et al.	6,534,012	B1	3/2003	Hazen et al.
D353,196	S	12/1994	Savage et al.	6,542,764	B1	4/2003	Al-Ali et al.
5,377,676	A	1/1995	Vari et al.	6,580,086	B1	6/2003	Schulz et al.
D359,546	S	6/1995	Savage et al.	6,584,336	B1	6/2003	Ali et al.
5,431,170	A	7/1995	Mathews	6,587,196	B1	7/2003	Stippick et al.
5,436,499	A	7/1995	Namavar et al.	6,587,199	B1	7/2003	Luu
D361,751	S	8/1995	Geis	6,595,316	B2	7/2003	Cybulski et al.
D361,840	S	8/1995	Savage et al.	6,597,932	B2	7/2003	Tian et al.
D362,063	S	9/1995	Savage et al.	6,606,511	B1	8/2003	Ali et al.
D363,120	S	10/1995	Savage et al.	D480,811	S	10/2003	Horhota et al.
5,456,252	A	10/1995	Vari et al.	6,635,559	B2	10/2003	Greenwald et al.
5,479,934	A	1/1996	Imran	6,639,668	B1	10/2003	Trepagnier
5,482,036	A	1/1996	Diab et al.	6,640,116	B2	10/2003	Diab
5,494,043	A	2/1996	O'Sullivan et al.	6,640,117	B2	10/2003	Makarewicz et al.
5,533,511	A	7/1996	Kaspari et al.	6,658,276	B2	12/2003	Kiani et al.
D372,787	S	8/1996	Dozier et al.	6,661,161	B1	12/2003	Lanzo et al.
5,561,275	A	10/1996	Savage et al.	D486,785	S	2/2004	Shindo
5,590,649	A	1/1997	Caro et al.	6,697,656	B1	2/2004	Al-Ali
5,602,924	A	2/1997	Durand et al.	6,697,658	B2	2/2004	Al-Ali
5,638,816	A	6/1997	Kiani-Azarbayjany et al.	RE38,476	E	3/2004	Diab et al.
5,638,818	A	6/1997	Diab et al.	RE38,492	E	4/2004	Diab et al.
5,645,440	A	7/1997	Tobler et al.	6,735,379	B2	5/2004	Salmon et al.
5,671,914	A	9/1997	Kalkhoran et al.	6,738,652	B2	5/2004	Mattu et al.
D385,283	S	10/1997	Snyder et al.	6,760,607	B2	7/2004	Al-Ali
5,726,440	A	3/1998	Kalkhoran et al.	6,788,965	B2	9/2004	Ruchti et al.
D393,830	S	4/1998	Tobler et al.	6,816,241	B2	11/2004	Grubisic
5,743,262	A	4/1998	Lepper, Jr. et al.	6,822,564	B2	11/2004	Al-Ali
5,747,806	A	5/1998	Khalil et al.	6,850,787	B2	2/2005	Weber et al.
5,750,994	A	5/1998	Schlager	6,850,788	B2	2/2005	Al-Ali
5,758,644	A	6/1998	Diab et al.	6,876,931	B2	4/2005	Lorenz et al.
5,760,910	A	6/1998	Lepper, Jr. et al.	6,920,345	B2	7/2005	Al-Ali et al.
D404,357	S	1/1999	Foster et al.	6,934,570	B2	8/2005	Kiani et al.
5,890,929	A	4/1999	Mills et al.	6,943,348	B1	9/2005	Coffin, IV
5,919,134	A	7/1999	Diab	6,956,649	B2	10/2005	Acosta et al.
D417,189	S	11/1999	Amero, Jr. et al.	6,961,598	B2	11/2005	Diab
5,987,343	A	11/1999	Kinast	6,970,792	B1	11/2005	Diab
5,997,343	A	12/1999	Mills et al.	6,985,764	B2	1/2006	Mason et al.
6,002,952	A	12/1999	Diab et al.	6,990,364	B2	1/2006	Ruchti et al.
6,010,937	A	1/2000	Karam et al.	6,998,247	B2	2/2006	Monfre et al.
6,027,452	A	2/2000	Flaherty et al.	7,003,338	B2	2/2006	Weber et al.
6,040,578	A	3/2000	Malin et al.	7,015,451	B2	3/2006	Dalke et al.
6,066,204	A	5/2000	Haven	7,027,849	B2	4/2006	Al-Ali
D428,387	S	7/2000	Malloy et al.	D525,362	S	7/2006	Nielsen et al.
D429,337	S	8/2000	Sanfilippo	D526,719	S	8/2006	Richie, Jr. et al.
6,115,673	A	9/2000	Malin et al.	7,096,052	B2	8/2006	Mason et al.
6,124,597	A	9/2000	Shehada et al.	7,096,054	B2	8/2006	Abdul-Hafiz et al.
6,128,521	A	10/2000	Marro et al.	D529,616	S	10/2006	Deros et al.
6,129,675	A	10/2000	Jay	7,133,710	B2	11/2006	Acosta et al.
6,144,868	A	11/2000	Parker	7,142,901	B2	11/2006	Kiani et al.
6,152,754	A	11/2000	Gerhardt et al.	D535,877	S	1/2007	Tanninen et al.
6,184,521	B1	2/2001	Coffin, IV et al.	D543,149	S	5/2007	Huang et al.
6,232,609	B1	5/2001	Snyder et al.	7,225,006	B2	5/2007	Al-Ali et al.
6,241,683	B1	6/2001	Macklem et al.	RE39,672	E	6/2007	Shehada et al.
6,255,708	B1	7/2001	Sudharsanan et al.	7,254,429	B2	8/2007	Schurman et al.
6,280,381	B1	8/2001	Malin et al.	7,254,431	B2	8/2007	Al-Ali et al.
6,285,896	B1	9/2001	Tobler et al.	7,254,434	B2	8/2007	Schulz et al.
6,308,089	B1	10/2001	von der Ruhr et al.	7,274,955	B2	9/2007	Kiani et al.
6,317,627	B1	11/2001	Ennen et al.	D554,263	S	10/2007	Al-Ali et al.
6,321,100	B1	11/2001	Parker	7,280,858	B2	10/2007	Al-Ali et al.
6,334,065	B1	12/2001	Al-Ali et al.	7,289,835	B2	10/2007	Mansfield et al.
6,360,114	B1	3/2002	Diab et al.	7,292,883	B2	11/2007	De Felice et al.
D456,358	S	4/2002	Niklander et al.	D557,814	S	12/2007	Glenn et al.
6,368,283	B1	4/2002	Xu et al.	7,341,559	B2	3/2008	Schulz et al.
6,411,373	B1	6/2002	Garside et al.	7,343,186	B2	3/2008	Lamego et al.
6,415,167	B1	7/2002	Blank et al.	D566,282	S	4/2008	Al-Ali et al.
6,430,437	B1	8/2002	Marro	7,356,365	B2	4/2008	Schurman
6,430,525	B1	8/2002	Weber et al.	7,371,981	B2	5/2008	Abdul-Hafiz
D462,864	S	9/2002	Myszka et al.	7,373,193	B2	5/2008	Al-Ali et al.
6,463,311	B1	10/2002	Diab	7,377,794	B2	5/2008	Al-Ali et al.
6,470,199	B1	10/2002	Kopotic et al.	D571,478	S	6/2008	Horacek
6,487,429	B2	11/2002	Hockersmith et al.	D571,720	S	6/2008	Yang
6,505,059	B1	1/2003	Kollias et al.	7,395,158	B2	7/2008	Monfre et al.
6,525,386	B1	2/2003	Mills et al.	7,415,297	B2	8/2008	Al-Ali et al.
6,526,300	B1	2/2003	Kiani et al.	D576,546	S	9/2008	Yang
				7,438,683	B2	10/2008	Al-Ali et al.
				7,483,729	B2	1/2009	Al-Ali et al.
				D587,657	S	3/2009	Al-Ali et al.
				7,500,950	B2	3/2009	Al-Ali et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

7,509,494 B2	3/2009	Al-Ali	8,418,524 B2	4/2013	Al-Ali
7,510,849 B2	3/2009	Schurman et al.	8,428,967 B2	4/2013	Olsen et al.
7,514,725 B2	4/2009	Wojtczuk et al.	8,430,817 B1	4/2013	Al-Ali et al.
7,519,406 B2	4/2009	Blank et al.	8,437,825 B2	5/2013	Dalvi et al.
D592,507 S	5/2009	Wachman et al.	8,455,290 B2	6/2013	Siskavich
7,530,942 B1	5/2009	Diab	8,457,707 B2	6/2013	Kiani
D601,258 S	9/2009	Bell et al.	8,471,713 B2	6/2013	Poeze et al.
7,593,230 B2	9/2009	Abul-Haj et al.	8,473,020 B2	6/2013	Kiani et al.
7,596,398 B2	9/2009	Al-Ali et al.	8,509,867 B2	8/2013	Workman et al.
7,606,608 B2	10/2009	Blank et al.	8,515,509 B2	8/2013	Bruinsma et al.
7,620,674 B2	11/2009	Ruchti et al.	8,523,781 B2	9/2013	Al-Ali
D606,659 S	12/2009	Kiani et al.	D692,145 S	10/2013	Al-Ali et al.
7,629,039 B2	12/2009	Eckerbom et al.	8,571,617 B2	10/2013	Reichgott et al.
7,640,140 B2	12/2009	Ruchti et al.	8,571,618 B1	10/2013	Lamego et al.
7,647,083 B2	1/2010	Al-Ali et al.	8,571,619 B2	10/2013	Al-Ali et al.
D609,193 S	2/2010	Al-Ali et al.	8,577,431 B2	11/2013	Lamego et al.
D614,305 S	4/2010	Al-Ali et al.	8,584,345 B2	11/2013	Al-Ali et al.
7,697,966 B2	4/2010	Monfre et al.	8,588,880 B2	11/2013	Abdul-Hafiz et al.
7,698,105 B2	4/2010	Ruchti et al.	D696,631 S	12/2013	Price et al.
RE41,317 E	5/2010	Parker	8,630,691 B2	1/2014	Lamego et al.
RE41,333 E	5/2010	Blank et al.	8,639,319 B2	1/2014	Hugh et al.
D616,993 S	6/2010	Muis et al.	8,641,631 B2	2/2014	Sierra et al.
7,729,733 B2	6/2010	Al-Ali et al.	8,652,060 B2	2/2014	Al-Ali
7,761,127 B2	7/2010	Al-Ali et al.	8,663,106 B2	3/2014	Stivoric et al.
7,764,982 B2	7/2010	Dalke et al.	8,666,468 B1	3/2014	Al-Ali
D621,516 S	8/2010	Kiani et al.	8,670,811 B2	3/2014	O'Reilly
7,791,155 B2	9/2010	Diab	RE44,823 E	4/2014	Parker
RE41,912 E	11/2010	Parker	RE44,875 E	4/2014	Kiani et al.
7,880,626 B2	2/2011	Al-Ali et al.	8,688,183 B2	4/2014	Bruinsma et al.
7,904,133 B2	3/2011	Gehman et al.	8,690,799 B2	4/2014	Telfort et al.
7,909,772 B2	3/2011	Popov et al.	8,702,627 B2	4/2014	Telfort et al.
D636,726 S	4/2011	Hiramura	8,712,494 B1	4/2014	MacNeish, III et al.
7,919,713 B2	4/2011	Al-Ali et al.	8,715,206 B2	5/2014	Telfort et al.
7,937,128 B2	5/2011	Al-Ali	8,716,629 B2	5/2014	Klewer et al.
7,937,129 B2	5/2011	Mason et al.	8,723,677 B1	5/2014	Kiani
7,941,199 B2	5/2011	Kiani	8,740,792 B1	6/2014	Kiani et al.
7,957,780 B2	6/2011	Lamego et al.	8,755,535 B2	6/2014	Telfort et al.
7,962,188 B2	6/2011	Kiani et al.	8,755,872 B1	6/2014	Marinow
7,976,472 B2	7/2011	Kiani	D709,439 S	7/2014	Ferber et al.
7,990,382 B2	8/2011	Kiani	8,764,671 B2	7/2014	Kiani
8,008,088 B2	8/2011	Bellott et al.	8,768,423 B2	7/2014	Shakespeare et al.
RE42,753 E	9/2011	Kiani-Azarbayjany et al.	8,771,204 B2	7/2014	Telfort et al.
8,028,701 B2	10/2011	Al-Ali et al.	8,781,544 B2	7/2014	Al-Ali et al.
8,048,040 B2	11/2011	Kiani	8,790,268 B2	7/2014	Al-Ali
8,050,728 B2	11/2011	Al-Ali et al.	8,801,613 B2	8/2014	Al-Ali et al.
RE43,169 E	2/2012	Parker	D712,827 S	9/2014	Maeda et al.
8,118,620 B2	2/2012	Al-Ali et al.	8,821,397 B2	9/2014	Al-Ali et al.
8,130,105 B2	3/2012	Al-Ali et al.	8,821,415 B2	9/2014	Al-Ali et al.
8,182,443 B1	5/2012	Kiani	8,830,449 B1	9/2014	Lamego et al.
8,190,223 B2	5/2012	Al-Ali et al.	8,840,549 B2	9/2014	Al-Ali et al.
8,203,438 B2	6/2012	Kiani et al.	8,852,094 B2	10/2014	Al-Ali et al.
8,203,704 B2	6/2012	Merritt et al.	8,852,994 B2	10/2014	Wojtczuk et al.
D663,421 S	7/2012	Steiner et al.	8,897,847 B2	11/2014	Al-Ali
8,219,172 B2	7/2012	Schurman et al.	D719,658 S	12/2014	McDougall et al.
8,224,411 B2	7/2012	Al-Ali et al.	8,911,377 B2	12/2014	Al-Ali
8,229,532 B2	7/2012	Davis	D724,222 S	3/2015	Chung et al.
8,233,955 B2	7/2012	Al-Ali et al.	8,989,831 B2	3/2015	Al-Ali et al.
D666,305 S	8/2012	Benarieh et al.	8,998,809 B2	4/2015	Kiani
8,255,026 B1	8/2012	Al-Ali	D728,468 S	5/2015	Ferber et al.
8,265,723 B1	9/2012	McHale et al.	9,066,666 B2	6/2015	Kiani
8,274,360 B2	9/2012	Sampath et al.	9,066,680 B1	6/2015	Al-Ali et al.
8,280,473 B2	10/2012	Al-Ali	9,095,316 B2	8/2015	Welch et al.
8,290,574 B2	10/2012	Field et al.	9,106,038 B2	8/2015	Telfort et al.
8,315,683 B2	11/2012	Al-Ali et al.	9,107,625 B2	8/2015	Telfort et al.
8,315,687 B2	11/2012	Cross et al.	9,119,568 B2	9/2015	Yin et al.
RE43,860 E	12/2012	Parker	9,131,881 B2	9/2015	Diab et al.
D671,888 S	12/2012	Dyson et al.	9,138,180 B1	9/2015	Coverston et al.
8,346,330 B2	1/2013	Lamego	9,153,112 B1	10/2015	Kiani et al.
8,353,842 B2	1/2013	Al-Ali et al.	9,192,329 B2	11/2015	Al-Ali
8,355,766 B2	1/2013	MacNeish, III et al.	9,192,351 B1	11/2015	Telfort et al.
D675,739 S	2/2013	McCormack	9,195,385 B2	11/2015	Al-Ali et al.
8,374,665 B2	2/2013	Lamego	D745,167 S	12/2015	Canas et al.
8,388,353 B2	3/2013	Kiani et al.	9,211,095 B1	12/2015	Al-Ali
8,401,602 B2	3/2013	Kiani	9,218,454 B2	12/2015	Kiani et al.
8,414,499 B2	4/2013	Al-Ali et al.	D746,777 S	1/2016	Lavén et al.
			9,245,668 B1	1/2016	Vo et al.
			9,267,572 B2	2/2016	Barker et al.
			D752,229 S	3/2016	Chen et al.
			9,277,880 B2	3/2016	Poeze et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

9,307,928 B1	4/2016	Al-Ali et al.	10,123,729 B2	11/2018	Dyell et al.
9,323,894 B2	4/2016	Kiani	D835,282 S	12/2018	Barker et al.
D755,392 S	5/2016	Hwang et al.	D835,283 S	12/2018	Barker et al.
D755,393 S	5/2016	Amsler	D835,284 S	12/2018	Barker et al.
D755,974 S	5/2016	Chen et al.	D835,285 S	12/2018	Barker et al.
9,326,712 B1	5/2016	Kiani	D836,201 S *	12/2018	Lee D24/165
D759,828 S	6/2016	Riedle	10,143,383 B2	12/2018	Tseng et al.
9,386,923 B2	7/2016	Winter et al.	10,149,616 B2	12/2018	Al-Ali et al.
9,392,945 B2	7/2016	Al-Ali et al.	10,154,815 B2	12/2018	Al-Ali et al.
9,408,542 B1	8/2016	Kinast et al.	10,159,412 B2	12/2018	Lamego et al.
D767,485 S	9/2016	To et al.	10,183,142 B2	1/2019	Garcia Molina et al.
D767,487 S	9/2016	Huang	10,188,348 B2	1/2019	Al-Ali et al.
9,436,645 B2	9/2016	Al-Ali et al.	RE47,218 E	2/2019	Al-Ali
9,445,759 B1	9/2016	Lamego et al.	RE47,244 E	2/2019	Kiani et al.
9,459,089 B2	10/2016	Ganton et al.	RE47,249 E	2/2019	Kiani et al.
9,474,474 B2	10/2016	Lamego et al.	10,205,291 B2	2/2019	Scruggs et al.
9,480,435 B2	11/2016	Olsen	10,213,153 B2	2/2019	Atallah et al.
9,510,755 B2	12/2016	Fong et al.	10,226,187 B2	3/2019	Al-Ali et al.
9,510,779 B2	12/2016	Poeze et al.	10,231,657 B2	3/2019	Al-Ali et al.
9,517,024 B2	12/2016	Kiani et al.	10,231,670 B2	3/2019	Blank et al.
9,532,722 B2	1/2017	Lamego et al.	RE47,353 E	4/2019	Kiani et al.
9,560,996 B2	2/2017	Kiani	D847,372 S	4/2019	Crawford et al.
9,579,039 B2	2/2017	Jansen et al.	10,258,267 B2	4/2019	Ballam et al.
D782,683 S	3/2017	Singh et al.	10,279,247 B2	5/2019	Kiani
9,610,060 B2	4/2017	Jaeschke et al.	10,292,664 B2	5/2019	Al-Ali
9,622,692 B2	4/2017	Lamego et al.	10,299,720 B2	5/2019	Brown et al.
D788,312 S	5/2017	Al-Ali et al.	D850,385 S	6/2019	Gregori
9,649,054 B2	5/2017	Lamego et al.	D851,261 S	6/2019	Ricks
D789,154 S	6/2017	Walker	10,327,337 B2	6/2019	Schmidt et al.
9,697,928 B2	7/2017	Al-Ali et al.	10,327,713 B2	6/2019	Barker et al.
D794,803 S	8/2017	Thom	10,332,630 B2	6/2019	Al-Ali
D795,184 S	8/2017	Jung et al.	D855,203 S	7/2019	Katsumata et al.
9,717,458 B2	8/2017	Lamego et al.	D857,205 S	8/2019	Lemons et al.
9,724,016 B1	8/2017	Al-Ali et al.	10,383,520 B2	8/2019	Wojtczuk et al.
9,724,024 B2	8/2017	Al-Ali	10,383,527 B2	8/2019	Al-Ali
9,724,025 B1	8/2017	Kiani et al.	10,388,120 B2	8/2019	Muhsin et al.
9,749,232 B2	8/2017	Sampath et al.	D864,120 S	10/2019	Forrest et al.
9,750,442 B2	9/2017	Olsen	10,441,181 B1	10/2019	Telfort et al.
9,750,461 B1	9/2017	Telfort	10,441,196 B2	10/2019	Eckerbom et al.
9,775,545 B2	10/2017	Al-Ali et al.	10,448,844 B2	10/2019	Al-Ali et al.
9,778,079 B1	10/2017	Al-Ali et al.	10,448,871 B2	10/2019	Al-Ali et al.
9,782,077 B2	10/2017	Lamego et al.	10,456,038 B2	10/2019	Lamego et al.
9,787,568 B2	10/2017	Lamego et al.	D868,133 S	11/2019	Disciullo et al.
9,808,188 B1	11/2017	Perea et al.	10,463,340 B2	11/2019	Telfort et al.
9,833,171 B2	12/2017	Yin et al.	10,471,159 B1	11/2019	Lapotko et al.
9,839,379 B2	12/2017	Al-Ali et al.	10,478,589 B2	11/2019	Cronin et al.
9,839,381 B1	12/2017	Weber et al.	D868,974 S *	12/2019	Albert D24/167
9,847,749 B2	12/2017	Kiani et al.	D868,993 S	12/2019	Isozaki et al.
9,848,800 B1	12/2017	Lee et al.	10,499,825 B2	12/2019	Solosko et al.
D807,501 S	1/2018	Reba Switala	10,505,311 B2	12/2019	Al-Ali et al.
9,861,298 B2	1/2018	Eckerbom et al.	10,524,672 B2	1/2020	Baek et al.
9,861,305 B1	1/2018	Weber et al.	10,524,738 B2	1/2020	Olsen
9,877,650 B2	1/2018	Muhsin et al.	10,531,813 B2	1/2020	O'Neill et al.
D810,944 S	2/2018	Goolkasian	10,532,174 B2	1/2020	Al-Ali
9,891,079 B2	2/2018	Dalvi	10,537,285 B2	1/2020	Shreim et al.
9,907,473 B2	3/2018	Tran	10,542,903 B2	1/2020	Al-Ali et al.
9,924,897 B1	3/2018	Abdul-Hafiz	10,555,678 B2	2/2020	Dalvi et al.
D815,743 S	4/2018	Liao et al.	10,568,553 B2	2/2020	O'Neil et al.
9,936,917 B2	4/2018	Poeze et al.	RE47,882 E	3/2020	Al-Ali
D818,129 S	5/2018	Heine et al.	D879,305 S	3/2020	Gummireddy et al.
9,955,937 B2	5/2018	Telfort	10,575,780 B2	3/2020	Van Den Ende et al.
9,955,939 B2	5/2018	Sezan et al.	10,595,726 B2	3/2020	Cronin et al.
9,965,946 B2	5/2018	Al-Ali et al.	10,603,429 B2	3/2020	Dantsker
9,968,772 B2	5/2018	Kockx et al.	10,608,817 B2	3/2020	Haider et al.
9,985,384 B1	5/2018	Johnson et al.	D880,477 S	4/2020	Forrest et al.
D820,865 S	6/2018	Muhsin et al.	D882,800 S *	4/2020	Lee D24/169
9,986,952 B2	6/2018	Dalvi et al.	10,617,302 B2	4/2020	Al-Ali et al.
D822,215 S	7/2018	Al-Ali et al.	10,617,335 B2	4/2020	Al-Ali et al.
D822,216 S	7/2018	Barker et al.	10,624,580 B2	4/2020	DeGroot et al.
10,010,276 B2	7/2018	Al-Ali et al.	10,637,181 B2	4/2020	Al-Ali et al.
10,062,958 B2	8/2018	Ganton et al.	D884,165 S	5/2020	deBock et al.
D831,842 S	10/2018	Katsumata et al.	D885,586 S	5/2020	Lopez Pimienta et al.
10,086,138 B1	10/2018	Novak, Jr.	10,642,960 B2	5/2020	Goguen
10,111,591 B2	10/2018	Dyell et al.	D887,548 S	6/2020	Abdul-Hafiz et al.
D833,624 S	11/2018	DeJong et al.	D887,549 S	6/2020	Abdul-Hafiz et al.
			10,667,751 B2	6/2020	Kaskoun et al.
			10,667,764 B2	6/2020	Ahmed et al.
			D890,708 S	7/2020	Forrest et al.
			10,721,785 B2	7/2020	Al-Ali

(56)

References Cited

- U.S. PATENT DOCUMENTS
- D892,745 S 8/2020 Vlacich et al.
10,736,518 B2 8/2020 Al-Ali et al.
10,750,984 B2 8/2020 Pauley et al.
D895,122 S 9/2020 Benedikter et al.
D897,098 S 9/2020 Al-Ali
10,758,164 B2 9/2020 Derkx et al.
10,779,098 B2 9/2020 Iswanto et al.
10,799,128 B2 10/2020 Paulussen et al.
10,827,961 B1 11/2020 Iyengar et al.
10,828,007 B1 11/2020 Telfort et al.
10,832,818 B2 11/2020 Muhsin et al.
10,842,464 B2 11/2020 Lambert et al.
D904,640 S 12/2020 Ruhland et al.
D905,253 S 12/2020 Hubelbank
D905,268 S 12/2020 Katsumata et al.
D905,270 S 12/2020 Katsumata et al.
10,849,554 B2 12/2020 Shreim et al.
10,856,750 B2 12/2020 Indorf et al.
D906,970 S 1/2021 Forrest et al.
D908,894 S 1/2021 Eslava et al.
D911,289 S 2/2021 Itoh et al.
10,918,281 B2 2/2021 Al-Ali et al.
D914,887 S 3/2021 Allen et al.
D914,896 S 3/2021 Hoshino et al.
10,932,705 B2 3/2021 Muhsin et al.
10,932,729 B2 3/2021 Kiani et al.
10,939,878 B2 3/2021 Kiani et al.
10,956,950 B2 3/2021 Al-Ali et al.
D916,135 S 4/2021 Indorf et al.
D917,550 S 4/2021 Indorf et al.
D917,564 S 4/2021 Indorf et al.
D917,704 S * 4/2021 Al-Ali D24/186
10,987,066 B2 4/2021 Chandran et al.
10,991,135 B2 4/2021 Al-Ali et al.
D919,094 S * 5/2021 Al-Ali D24/165
D919,100 S 5/2021 Al-Ali et al.
D919,101 S 5/2021 Jung et al.
11,006,867 B2 5/2021 Al-Ali
D921,202 S 6/2021 Al-Ali et al.
11,024,064 B2 6/2021 Muhsin et al.
11,026,604 B2 6/2021 Chen et al.
D924,157 S 7/2021 Kaplan et al.
D925,597 S 7/2021 Chandran et al.
D926,323 S 7/2021 Dascoli et al.
D927,699 S 8/2021 Al-Ali et al.
11,076,777 B2 8/2021 Lee et al.
D931,468 S * 9/2021 Huang D24/186
11,114,188 B2 9/2021 Poeze et al.
D932,634 S 10/2021 Kawakami et al.
D933,232 S * 10/2021 Al-Ali D24/165
D933,233 S * 10/2021 Al-Ali D24/165
D933,234 S * 10/2021 Al-Ali D24/165
11,145,408 B2 10/2021 Sampath et al.
11,147,518 B1 10/2021 Al-Ali et al.
11,185,262 B2 11/2021 Al-Ali et al.
11,191,484 B2 12/2021 Kiani et al.
D940,327 S * 1/2022 Lee D24/186
D940,881 S * 1/2022 Hadley D24/186
2001/0034477 A1 10/2001 Mansfield et al.
2001/0039483 A1 11/2001 Brand et al.
2002/0010401 A1 1/2002 Bushmakin et al.
2002/0058864 A1 5/2002 Mansfield et al.
2002/0133080 A1 9/2002 Apruzzese et al.
2003/0013975 A1 1/2003 Kiani
2003/0018243 A1 1/2003 Gerhardt et al.
2003/0144582 A1 7/2003 Cohen et al.
2003/0156288 A1 8/2003 Barnum et al.
2003/0212312 A1 11/2003 Coffin, IV et al.
2004/0106163 A1 6/2004 Workman, Jr. et al.
2005/0055276 A1 3/2005 Kiani et al.
2005/0107714 A1 5/2005 Matsumura et al.
2005/0234317 A1 10/2005 Kiani
2006/0059364 A1 3/2006 Fontijn
2006/0073719 A1 4/2006 Kiani
2006/0084880 A1 4/2006 Such et al.
2006/0189871 A1 8/2006 Al-Ali et al.
2007/0073116 A1 3/2007 Kiani et al.
2007/0167850 A1 7/2007 Russell et al.
2007/0180140 A1 8/2007 Welch et al.
2007/0244377 A1 10/2007 Cozad et al.
2008/0064965 A1 3/2008 Jay et al.
2008/0094228 A1 4/2008 Welch et al.
2008/0221418 A1 9/2008 Al-Ali et al.
2008/0288026 A1 11/2008 Cross et al.
2009/0036759 A1 2/2009 Ault et al.
2009/0093687 A1 4/2009 Telfort et al.
2009/0095926 A1 4/2009 MacNeish, III
2009/0204100 A1 8/2009 Van Pieterse et al.
2009/0247984 A1 10/2009 Lamego et al.
2009/0275813 A1 11/2009 Davis
2010/0004518 A1 1/2010 Vo et al.
2010/0030040 A1 2/2010 Poeze et al.
2010/0076315 A1 3/2010 Erkamp et al.
2010/0099964 A1 4/2010 O'Reilly et al.
2010/0106076 A1 4/2010 Nisato et al.
2010/0234718 A1 9/2010 Sampath et al.
2010/0249542 A1 9/2010 Thijs et al.
2010/0270257 A1 10/2010 Wachman et al.
2011/0028806 A1 2/2011 Merritt et al.
2011/0028809 A1 2/2011 Goodman
2011/0040197 A1 2/2011 Welch et al.
2011/0082711 A1 4/2011 Poeze et al.
2011/0087081 A1 4/2011 Kiani et al.
2011/0118561 A1 5/2011 Tari et al.
2011/0125040 A1 5/2011 Crawford et al.
2011/0137297 A1 6/2011 Kiani et al.
2011/0172498 A1 7/2011 Olsen et al.
2011/0230733 A1 9/2011 Al-Ali
2011/0237924 A1 9/2011 McGusty et al.
2012/0123231 A1 5/2012 O'Reilly
2012/0130204 A1 5/2012 Basta et al.
2012/0165629 A1 6/2012 Merritt et al.
2012/0209084 A1 8/2012 Olsen et al.
2012/0226117 A1 9/2012 Lamego et al.
2012/0283524 A1 11/2012 Kiani et al.
2013/0023775 A1 1/2013 Lamego et al.
2013/0041591 A1 2/2013 Lamego
2013/0060147 A1 3/2013 Welch et al.
2013/0096405 A1 4/2013 Garfio
2013/0296672 A1 11/2013 O'Neil et al.
2013/0345921 A1 12/2013 Al-Ali et al.
2014/0166076 A1 6/2014 Kiani et al.
2014/0180160 A1 6/2014 Brown et al.
2014/0187973 A1 7/2014 Brown et al.
2014/0243612 A1 8/2014 Li et al.
2014/0275871 A1 9/2014 Lamego et al.
2014/0275872 A1 9/2014 Merritt et al.
2014/0316217 A1 10/2014 Purdon et al.
2014/0316218 A1 10/2014 Purdon et al.
2014/0323897 A1 10/2014 Brown et al.
2014/0323898 A1 10/2014 Purdon et al.
2015/0005600 A1 1/2015 Blank et al.
2015/0011907 A1 1/2015 Purdon et al.
2015/0025400 A1 1/2015 Nishioka et al.
2015/0073241 A1 3/2015 Lamego
2015/0080754 A1 3/2015 Purdon et al.
2015/0099950 A1 4/2015 Al-Ali et al.
2015/0106121 A1 4/2015 Muhsin et al.
2015/0269825 A1 9/2015 Tran
2015/0313499 A1 11/2015 Sohn
2016/0007861 A1 1/2016 Tseng et al.
2016/0196388 A1 7/2016 Lamego
2016/0283665 A1 9/2016 Sampath et al.
2016/0367173 A1 12/2016 Dalvi et al.
2017/0024748 A1 1/2017 Haider
2017/0042488 A1 2/2017 Muhsin
2017/0055896 A1 3/2017 Al-Ali
2017/0173632 A1 6/2017 Al-Ali
2017/0251974 A1 9/2017 Shreim et al.
2017/0296124 A1 10/2017 Creemers et al.
2017/0311891 A1 11/2017 Kiani et al.
2017/0360329 A1 12/2017 Derkx et al.
2018/0049656 A1 2/2018 Paulussen et al.
2018/0103874 A1 4/2018 Lee et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2018/0125444 A1 5/2018 Kahlman et al.
 2018/0146867 A1 5/2018 Torihama et al.
 2018/0184926 A1 7/2018 Doi et al.
 2018/0235567 A1 8/2018 Bezemer et al.
 2018/0242926 A1 8/2018 Muhsin et al.
 2018/0247353 A1 8/2018 Al-Ali et al.
 2018/0247712 A1 8/2018 Muhsin et al.
 2018/0256087 A1 9/2018 Al-Ali et al.
 2018/0289340 A1 10/2018 Trindade Rodrigues et al.
 2018/0296161 A1 10/2018 Shreim et al.
 2018/0300919 A1 10/2018 Muhsin et al.
 2018/0310822 A1 11/2018 Indorf et al.
 2018/0310823 A1 11/2018 Al-Ali et al.
 2018/0317779 A1 11/2018 Gregg et al.
 2018/0317826 A1 11/2018 Muhsin et al.
 2018/0333053 A1 11/2018 Verkruijsse et al.
 2018/0360373 A1 12/2018 Aarts et al.
 2018/0364109 A1 12/2018 Bongers et al.
 2019/0015023 A1 1/2019 Monfre
 2019/0117070 A1 4/2019 Muhsin et al.
 2019/0133488 A1 5/2019 Meftah et al.
 2019/0142280 A1 5/2019 Bongers et al.
 2019/0200941 A1 7/2019 Chandran et al.
 2019/0239787 A1 8/2019 Pauley et al.
 2019/0261923 A1 8/2019 Talgorn et al.
 2019/0282180 A1 9/2019 Babaeizadeh
 2019/0298195 A1 10/2019 De Groot et al.
 2019/0320906 A1 10/2019 Olsen
 2019/0374139 A1 12/2019 Kiani et al.
 2019/0374173 A1 12/2019 Kiani et al.
 2019/0374713 A1 12/2019 Kiani et al.
 2020/0021930 A1 1/2020 Iswanto et al.
 2020/0035366 A1 1/2020 Gummireddy et al.
 2020/0060869 A1 2/2020 Telfort et al.
 2020/0069281 A1 3/2020 Chan et al.
 2020/0085310 A1 3/2020 Zahner et al.
 2020/0086133 A1 3/2020 Wang et al.
 2020/0111552 A1 4/2020 Ahmed
 2020/0113435 A1 4/2020 Muhsin
 2020/0113488 A1 4/2020 Al-Ali et al.
 2020/0113496 A1 4/2020 Scruggs et al.
 2020/0113497 A1 4/2020 Triman et al.
 2020/0113520 A1 4/2020 Abdul-Hafiz et al.
 2020/0138288 A1 5/2020 Al-Ali et al.
 2020/0138368 A1 5/2020 Kiani et al.
 2020/0163597 A1 5/2020 Dalvi et al.
 2020/0163647 A1 5/2020 Hakkens et al.
 2020/0178932 A1 6/2020 Te Velde et al.
 2020/0196877 A1 6/2020 Vo et al.
 2020/0253474 A1 8/2020 Muhsin et al.
 2020/0253544 A1 8/2020 Belur Nagaraj et al.
 2020/0275841 A1 9/2020 Telfort et al.
 2020/0288983 A1 9/2020 Telfort et al.
 2020/0289087 A1 9/2020 Beckers et al.
 2020/0305792 A1 10/2020 Visweswara et al.
 2020/0321793 A1 10/2020 Al-Ali et al.
 2020/0329983 A1 10/2020 Al-Ali et al.
 2020/0329984 A1 10/2020 Al-Ali et al.
 2020/0329993 A1 10/2020 Al-Ali et al.
 2020/0330037 A1* 10/2020 Al-Ali A61B 5/0245
 2020/0345252 A1 11/2020 Huijbregts et al.
 2021/0022628 A1 1/2021 Telfort et al.
 2021/0104173 A1 4/2021 Pauley et al.
 2021/0113121 A1 4/2021 Diab et al.
 2021/0117525 A1 4/2021 Kiani et al.
 2021/0118581 A1 4/2021 Kiani et al.
 2021/0121582 A1 4/2021 Krishnamani et al.
 2021/0161465 A1 6/2021 Barker et al.
 2021/0236729 A1 8/2021 Kiani et al.
 2021/0256267 A1 8/2021 Ranasinghe et al.
 2021/0256835 A1 8/2021 Ranasinghe et al.
 2021/0275101 A1 9/2021 Vo et al.
 2021/0290060 A1 9/2021 Ahmed
 2021/0290072 A1 9/2021 Forrest

2021/0290080 A1 9/2021 Ahmed
 2021/0290120 A1 9/2021 Al-Ali
 2021/0290177 A1 9/2021 Novak, Jr.
 2021/0290184 A1 9/2021 Ahmed
 2021/0296008 A1 9/2021 Novak, Jr.
 2021/0330228 A1 10/2021 Olsen et al.
 2021/0386382 A1 12/2021 Olsen et al.
 2021/0402110 A1 12/2021 Pauley et al.
 2022/0039707 A1 2/2022 Sharma et al.
 2022/0053892 A1 2/2022 Al-Ali et al.
 2022/0071562 A1 3/2022 Kiani

FOREIGN PATENT DOCUMENTS

EP 3 430 980 1/2019
 EP 3 488 776 5/2019
 EP 3 560 551 10/2019
 EP 3 566 644 11/2019
 EP 3 578 096 12/2019
 EP 3 594 963 1/2020
 EP 3 598 950 1/2020
 EP 3 622 880 3/2020
 EP 3 626 159 3/2020
 EP 3 653 121 5/2020
 EP 3 711 668 9/2020
 EP 3 725 232 10/2020
 EP 3 062 701 1/2021
 JP D2009-13568 6/2010
 JP D1671743 10/2020
 JP D1671824 11/2020
 WO WO 2010/020945 2/2010
 WO WO 2013/076656 5/2013
 WO WO 2013/124750 8/2013
 WO WO 2015/049108 4/2015
 WO WO 2017/093150 6/2017
 WO WO 2017/140525 8/2017
 WO WO 2019/005801 1/2019
 WO WO 2020/002133 1/2020
 WO WO 2020/002290 1/2020
 WO WO 2020/002461 1/2020
 WO WO 2020/078842 4/2020
 WO WO 2020/078962 4/2020
 WO WO 2020/120527 6/2020
 WO WO 2020/144075 7/2020
 WO WO 2020/214826 10/2020
 WO WO 2020/216694 10/2020

OTHER PUBLICATIONS

Cake Board 7.5" Round—Golden. Online, published date unknown. Retrieved on Apr. 5, 2021 from <https://banglanceed.com/product/cake-board-7-5-round-golden/>, 1 page.
 Innovative Solutions in Resuscitation Therapy, “HeartStart Pads for Emergency and General Use”, Online, published date 2013. Retrieved on Apr. 6, 2021 from <https://www.wessex-medical.com/wp-content/uploads/2019/03/Philips-Defib-Pads.pdf>.
 International Preliminary Report on Patentability and Written Opinion received in PCT Application No. PCT/US2020/028542 dated Oct. 28, 2021 in 19 pages.
 Plastic Yogurt Container with Peel off Lid. Online, published date unknown. Retrieved on Apr. 6, 2021 from <https://www.istockphoto.com/vector/plastic-yogurt-container-with-peel-off-lid-realistic-vector-mockup-yoghurt-gm-1179621404-330158057>, 1 page.
 “Electrode Patch, Electrode Pads Patch Soft Electrode Pads with 2”, Bobosale, retrieved on Nov. 25, 2021 from https://bobosale.online/index.php?main_page=product_info&products_id=124693 in 1 page.
 “Minimal Rounded Coasters Mockup”, GraphicPear, retrieved on Nov. 25, 2021 from <https://www.graphicpear.com/minimal-rounded-coasters-mockup/> in 2 pages.
 “Round Coaster Mock-Up—Medium Size”, EnvatoElements, retrieved on Nov. 25, 2021 from <https://elements.envato.com/round-coaster-mock-up-medium-size-PFFH4M6> in 1 page.

* cited by examiner

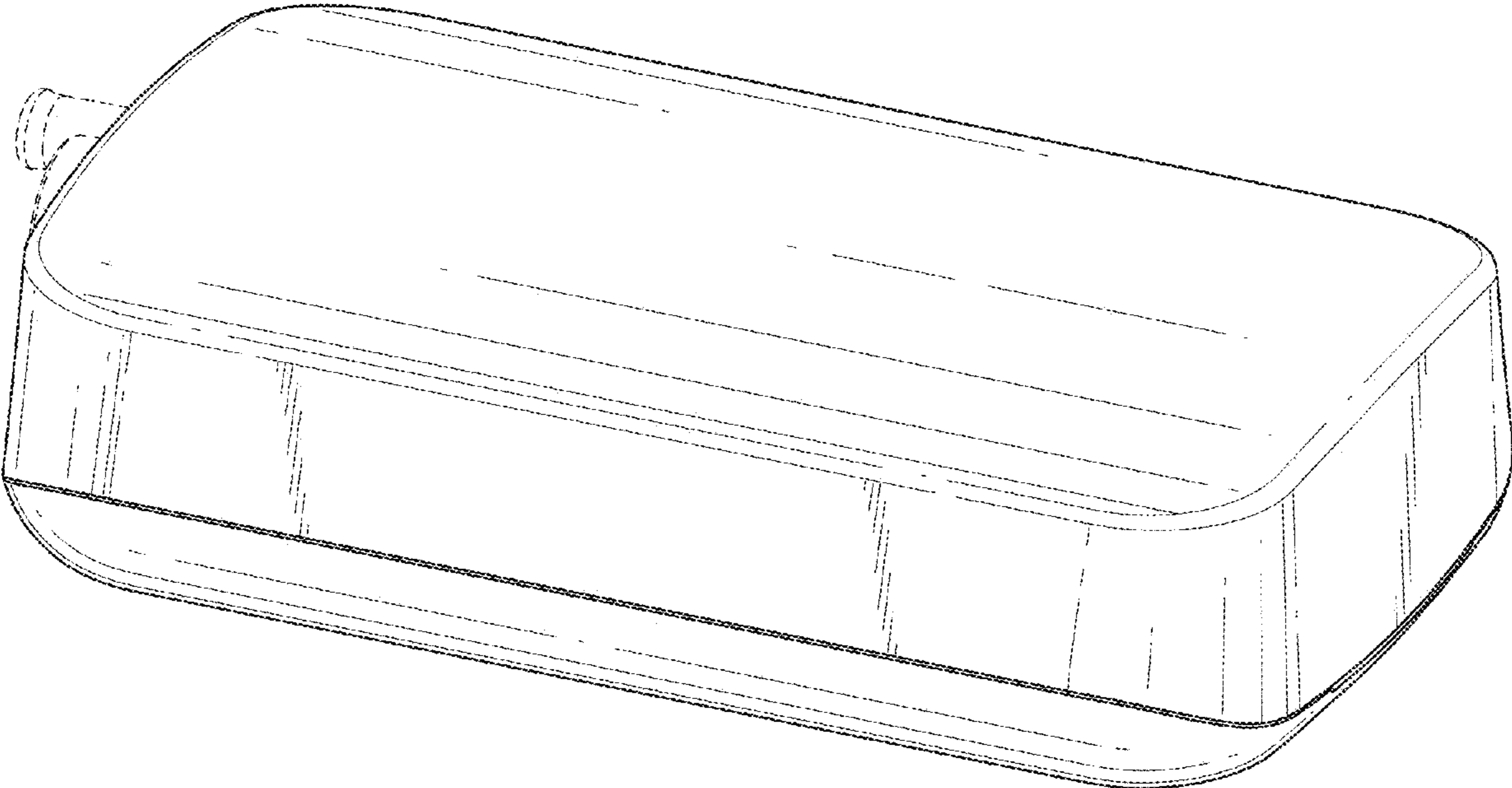


FIG. 1

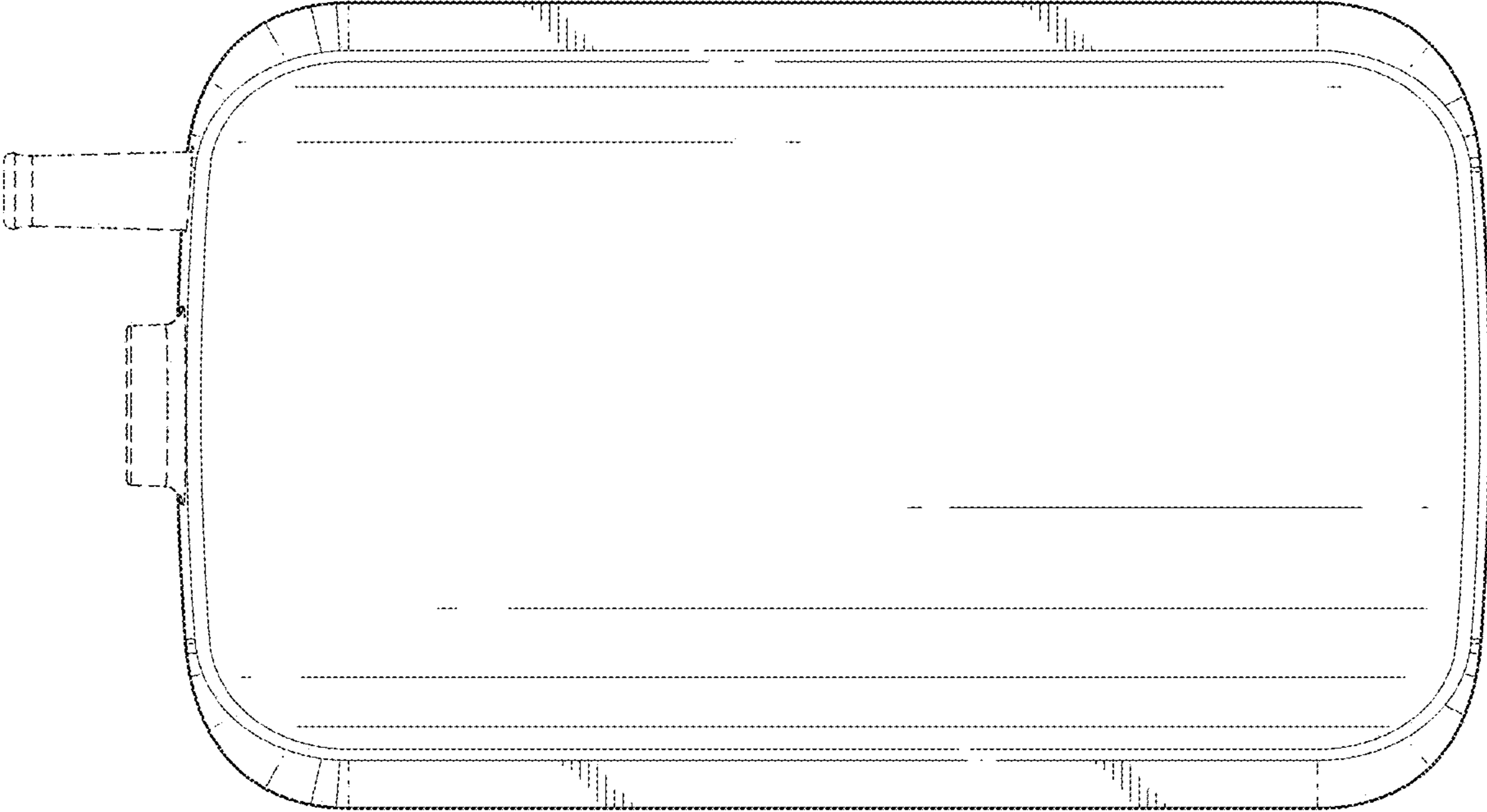


FIG. 2

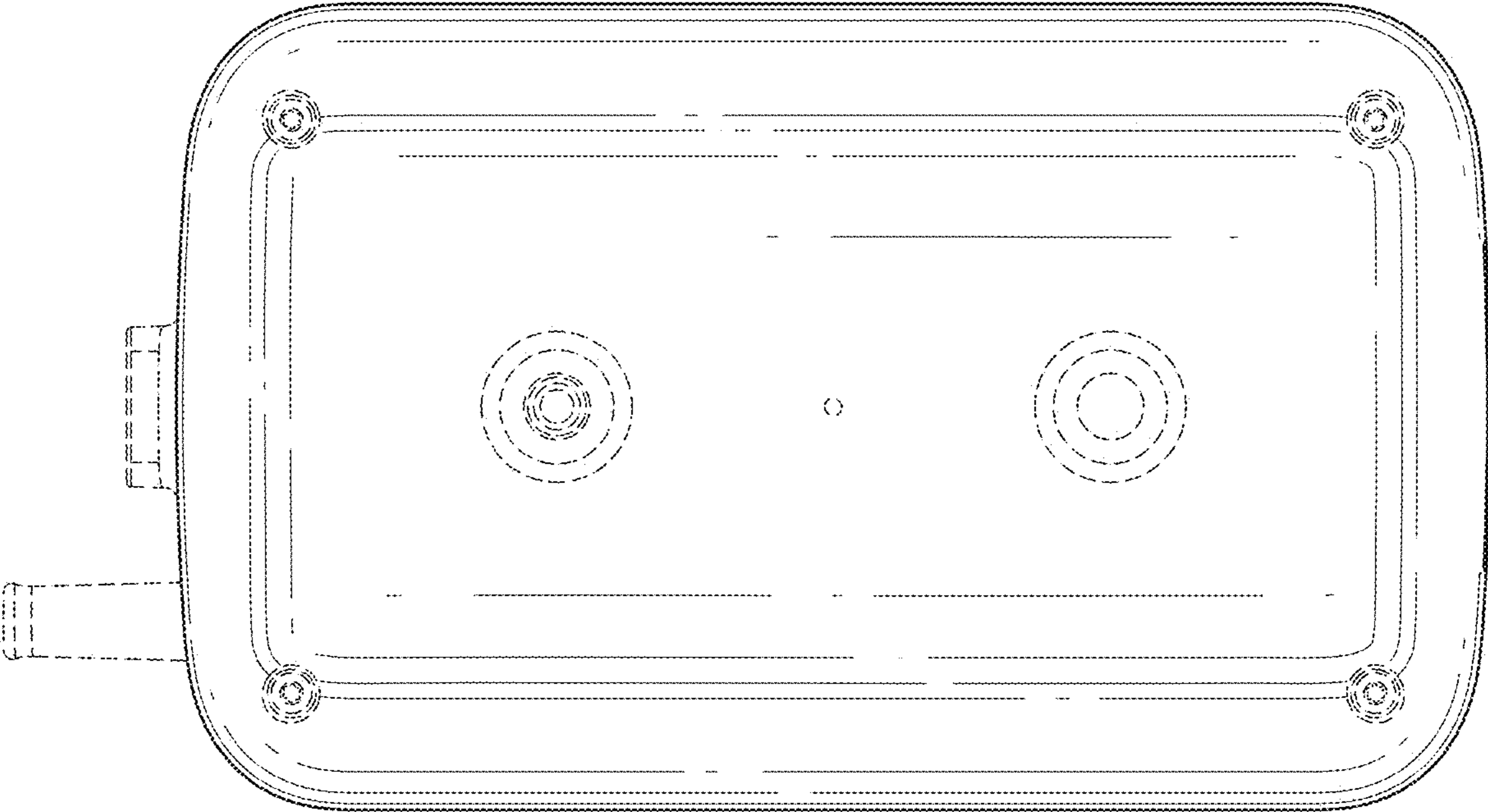


FIG. 3

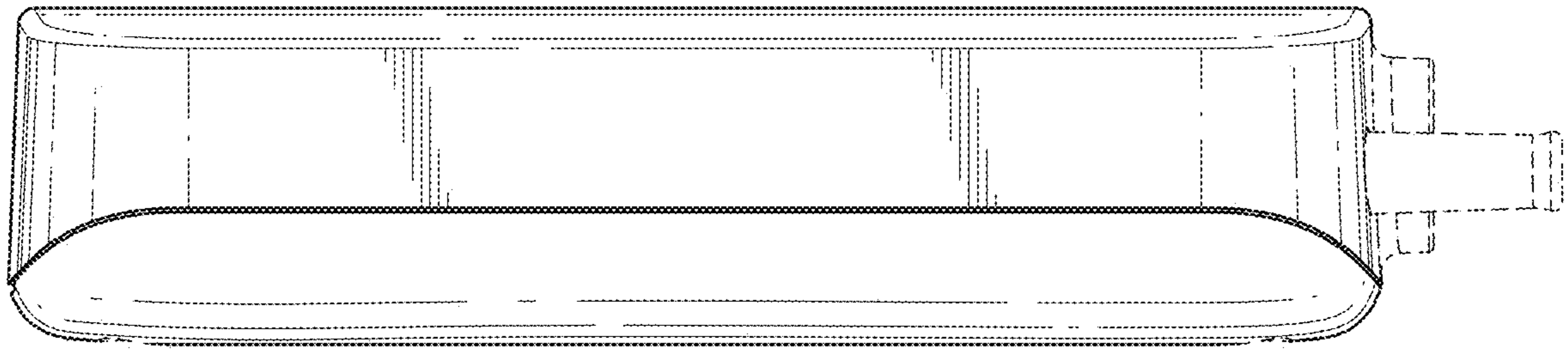


FIG. 4

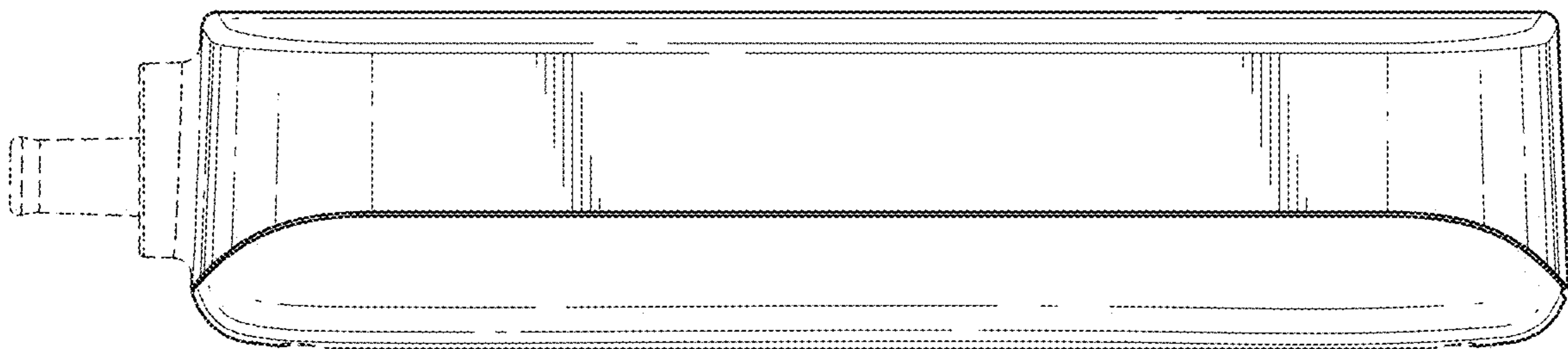


FIG. 5

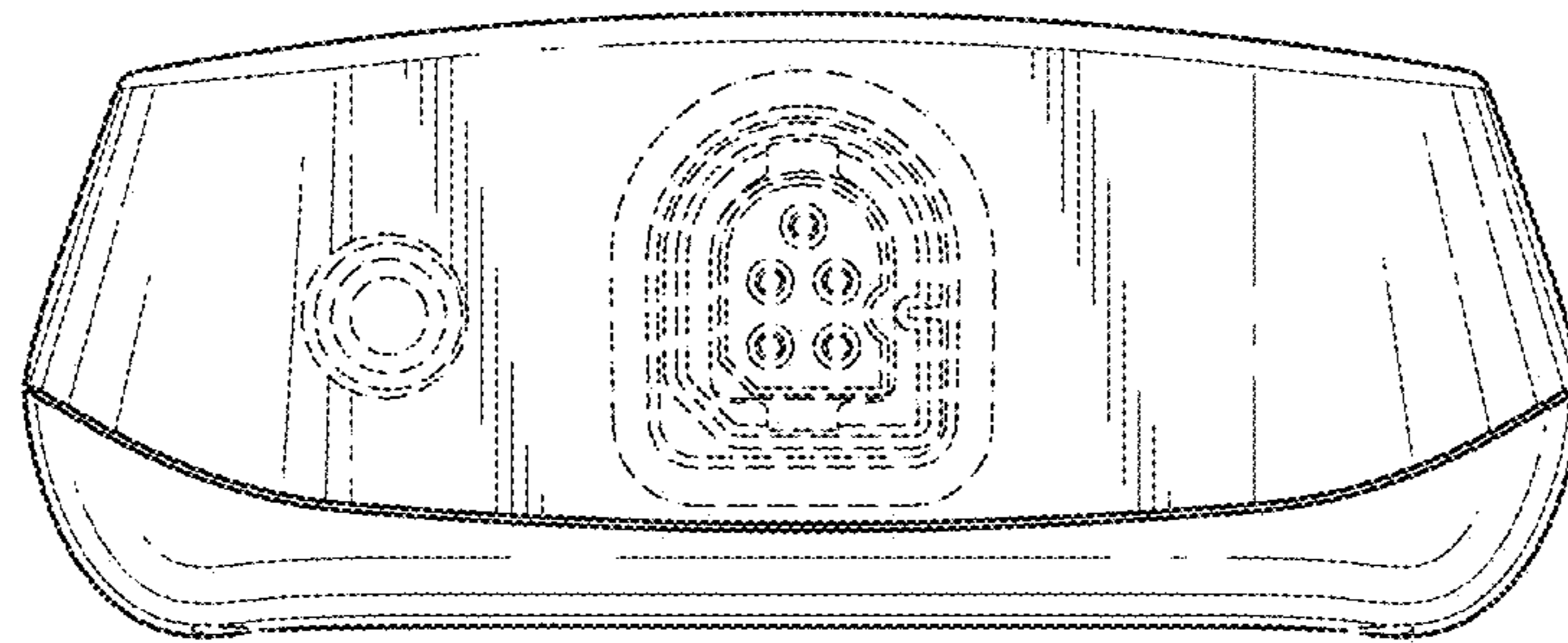


FIG. 6

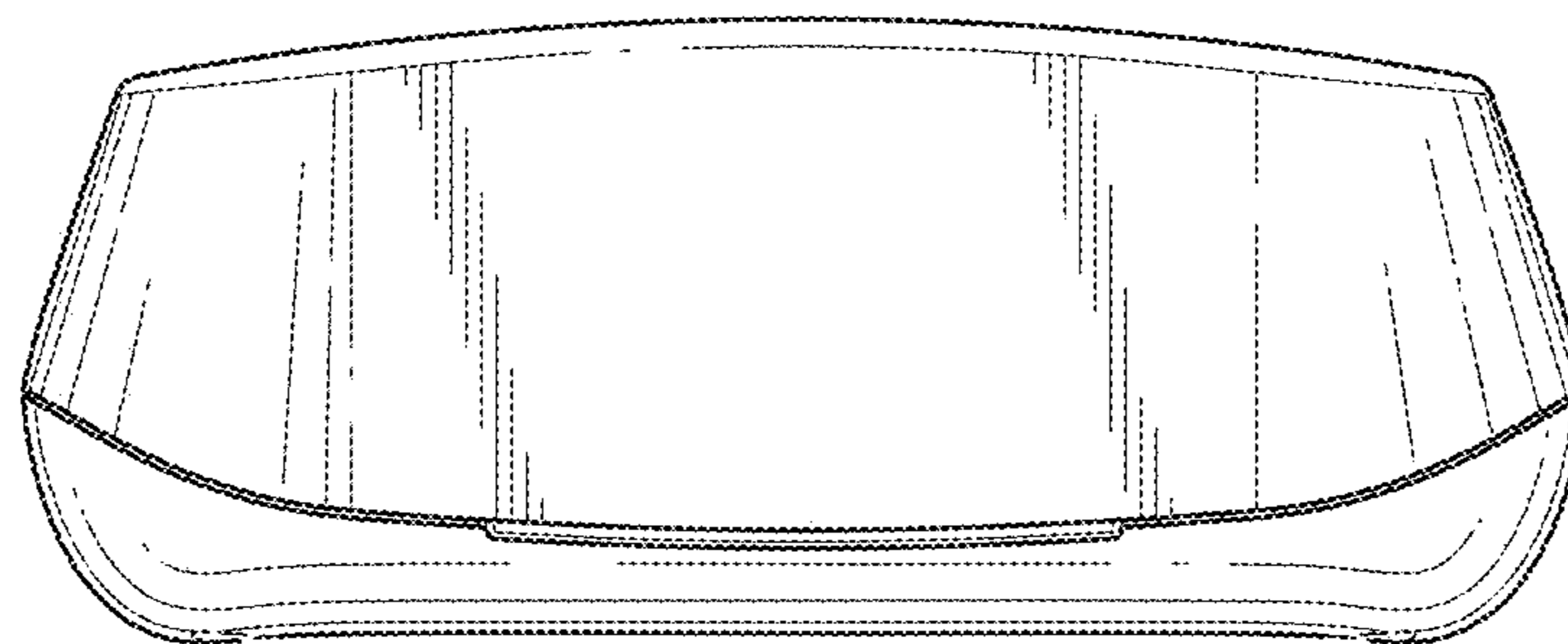


FIG. 7