



US00D933234S

(12) **United States Design Patent** (10) **Patent No.:** **US D933,234 S**
Al-Ali et al. (45) **Date of Patent:** **** Oct. 12, 2021**

(54) **PATIENT 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); **Sujin Hwang**, Irvine, CA (US)
(73) Assignee: **MASIMO CORPORATION**, Irvine, CA (US)

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

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

(**) Term: **15 Years**
(21) Appl. No.: **29/775,403**
(22) Filed: **Mar. 23, 2021**

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.
(Continued)

Related U.S. Application Data

(63) Continuation of application No. 29/702,162, filed on Aug. 16, 2019, now Pat. No. Des. 917,704.
(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;
D10/75, 70, 98
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 patient monitor, as shown and described.

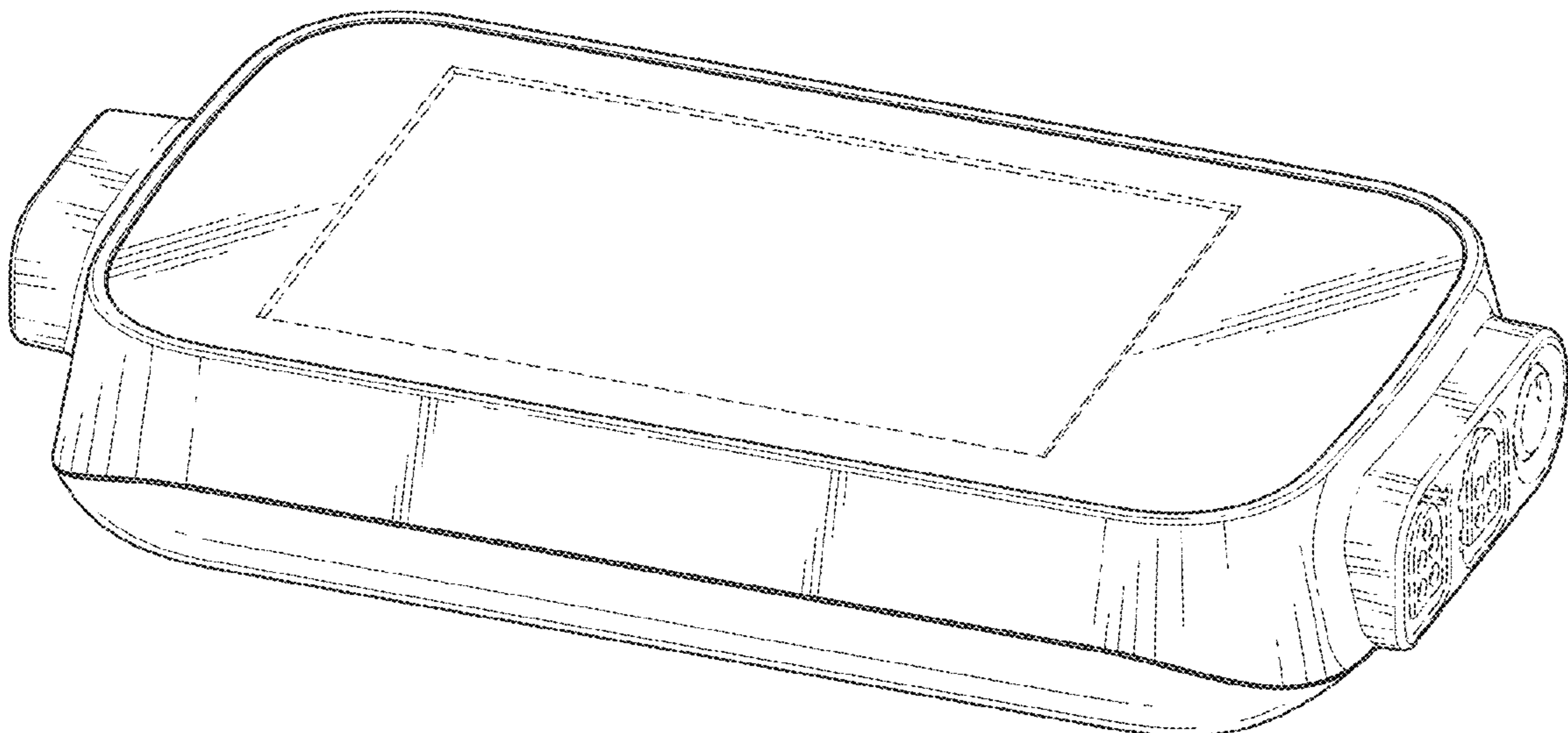
DESCRIPTION

FIG. 1 is a perspective view of a patient monitor embodying our new design;
FIG. 2 is another perspective view thereof;
FIG. 3 is top view thereof;
FIG. 4 is bottom view thereof;
FIG. 5 is a side view thereof;
FIG. 6 is another side view thereof;
FIG. 7 is a front view thereof; and,
FIG. 8 is a back view thereof.
The broken lines illustrate portions of the patient monitor that form no part of the claimed design.

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

3,434,651 A 3/1969 Stec
D278,363 S 4/1985 Schenkel et al.
D295,383 S 4/1988 Anderson et al.
D297,460 S 8/1988 Inoue et al.
4,960,128 A 10/1990 Gordon et al.
4,964,408 A 10/1990 Hink et al.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,341,805 A	8/1994	Stavridi et al.	6,580,086 B1	6/2003	Schulz et al.
D353,195 S	12/1994	Savage et al.	6,584,336 B1	6/2003	Ali et al.
D353,196 S	12/1994	Savage et al.	6,587,196 B1	7/2003	Stippick et al.
5,377,676 A	1/1995	Vari et al.	6,587,199 B1	7/2003	Luu
D359,546 S	6/1995	Savage et al.	6,595,316 B2	7/2003	Cybulski et al.
5,431,170 A	7/1995	Mathews	6,597,932 B2	7/2003	Tian et al.
5,436,499 A	7/1995	Namavar et al.	6,606,511 B1	8/2003	Ali et al.
D361,840 S	8/1995	Savage et al.	D480,811 S	10/2003	Horhota et al.
D362,063 S	9/1995	Savage et al.	6,635,559 B2	10/2003	Greenwald et al.
D363,120 S	10/1995	Savage et al.	6,639,668 B1	10/2003	Trepagnier
5,456,252 A	10/1995	Vari et al.	6,640,116 B2	10/2003	Diab
5,479,934 A	1/1996	Imran	6,640,117 B2	10/2003	Makarewicz et al.
5,482,036 A	1/1996	Diab et al.	6,658,276 B2	12/2003	Kiani et al.
5,494,043 A	2/1996	O'Sullivan et al.	6,661,161 B1	12/2003	Lanzo et al.
5,533,511 A	7/1996	Kaspari et al.	D486,785 S	2/2004	Shindo
D372,787 S	8/1996	Dozier et al.	6,697,656 B1	2/2004	Al-Ali
5,561,275 A	10/1996	Savage et al.	6,697,658 B2	2/2004	Al-Ali
5,590,649 A	1/1997	Caro et al.	RE38,476 E	3/2004	Diab et al.
5,602,924 A	2/1997	Durand et al.	RE38,492 E	4/2004	Diab et al.
5,638,816 A	6/1997	Kiani-Azarbayjany et al.	6,735,379 B2	5/2004	Salmon et al.
5,638,818 A	6/1997	Diab et al.	6,738,652 B2	5/2004	Mattu et al.
5,645,440 A	7/1997	Tobler et al.	6,760,607 B2	7/2004	Al-Ali
5,671,914 A	9/1997	Kalkhoran et al.	6,788,965 B2	9/2004	Ruchti et al.
D385,283 S	10/1997	Snyder et al.	6,816,241 B2	11/2004	Grubisic
5,726,440 A	3/1998	Kalkhoran et al.	6,822,564 B2	11/2004	Al-Ali
D393,830 S	4/1998	Tobler et al.	6,850,787 B2	2/2005	Weber et al.
5,743,262 A	4/1998	Lepper, Jr. et al.	6,850,788 B2	2/2005	Al-Ali
5,747,806 A	5/1998	Khalil et al.	6,876,931 B2	4/2005	Lorenz et al.
5,750,994 A	5/1998	Schlager	6,920,345 B2	7/2005	Al-Ali et al.
5,758,644 A	6/1998	Diab et al.	6,934,570 B2	8/2005	Kiani et al.
5,760,910 A	6/1998	Lepper, Jr. et al.	6,943,348 B1	9/2005	Coffin, IV
D404,357 S	1/1999	Foster et al.	6,956,649 B2	10/2005	Acosta et al.
5,890,929 A	4/1999	Mills et al.	6,961,598 B2	11/2005	Diab
5,919,134 A	7/1999	Diab	6,970,792 B1	11/2005	Diab
D417,189 S	11/1999	Amero, Jr. et al.	6,985,764 B2	1/2006	Mason et al.
5,987,343 A	11/1999	Kinast	6,990,364 B2	1/2006	Ruchti et al.
5,997,343 A	12/1999	Mills et al.	6,998,247 B2	2/2006	Monfre et al.
6,002,952 A	12/1999	Diab et al.	7,003,338 B2	2/2006	Weber et al.
6,010,937 A	1/2000	Karam et al.	7,015,451 B2	3/2006	Dalke et al.
6,027,452 A	2/2000	Flaherty et al.	7,027,849 B2	4/2006	Al-Ali
6,040,578 A	3/2000	Malin et al.	D526,719 S	8/2006	Richie, Jr. et al.
6,066,204 A	5/2000	Haven	7,096,052 B2	8/2006	Mason et al.
D428,387 S	7/2000	Malloy et al.	7,096,054 B2	8/2006	Abdul-Hafiz et al.
6,115,673 A	9/2000	Malin et al.	D529,616 S	10/2006	Deros et al.
6,124,597 A	9/2000	Shehada et al.	7,133,710 B2	11/2006	Acosta et al.
6,128,521 A	10/2000	Marro et al.	7,142,901 B2	11/2006	Kiani et al.
6,129,675 A	10/2000	Jay	D535,877 S	1/2007	Tanninen et al.
6,144,868 A	11/2000	Parker	7,225,006 B2	5/2007	Al-Ali et al.
6,152,754 A	11/2000	Gerhardt et al.	RE39,672 E	6/2007	Shehada et al.
6,184,521 B1	2/2001	Coffin, IV et al.	7,254,429 B2	8/2007	Schurman et al.
6,232,609 B1	5/2001	Snyder et al.	7,254,431 B2	8/2007	Al-Ali et al.
6,241,683 B1	6/2001	Macklem et al.	7,254,434 B2	8/2007	Schulz et al.
6,255,708 B1	7/2001	Sudharsanan et al.	7,274,955 B2	9/2007	Kiani et al.
6,280,381 B1	8/2001	Malin et al.	D554,263 S	10/2007	Al-Ali et al.
6,285,896 B1	9/2001	Tobler et al.	7,280,858 B2	10/2007	Al-Ali et al.
6,308,089 B1	10/2001	von der Ruhr et al.	7,289,835 B2	10/2007	Mansfield et al.
6,317,627 B1	11/2001	Ennen et al.	7,292,883 B2	11/2007	De Felice et al.
6,321,100 B1	11/2001	Parker	D557,814 S	12/2007	Glenn et al.
6,334,065 B1	12/2001	Al-Ali et al.	7,341,559 B2	3/2008	Schulz et al.
6,360,114 B1	3/2002	Diab et al.	7,343,186 B2	3/2008	Lamego et al.
6,368,283 B1	4/2002	Xu et al.	D566,282 S	4/2008	Al-Ali et al.
6,411,373 B1	6/2002	Garside et al.	7,356,365 B2	4/2008	Schurman
6,415,167 B1	7/2002	Blank et al.	7,371,981 B2	5/2008	Abdul-Hafiz
6,430,437 B1	8/2002	Marro	7,373,193 B2	5/2008	Al-Ali et al.
6,430,525 B1	8/2002	Weber et al.	7,377,794 B2	5/2008	Al-Ali et al.
D462,864 S	9/2002	Myszka et al.	D571,478 S	6/2008	Horacek
6,463,311 B1	10/2002	Diab	D571,720 S	6/2008	Yang
6,470,199 B1	10/2002	Kopotic et al.	7,395,158 B2	7/2008	Monfre et al.
6,487,429 B2	11/2002	Hockersmith et al.	7,415,297 B2	8/2008	Al-Ali et al.
6,505,059 B1	1/2003	Kollias et al.	D576,546 S	9/2008	Yang
6,525,386 B1	2/2003	Mills et al.	7,438,683 B2	10/2008	Al-Ali et al.
6,526,300 B1	2/2003	Kiani et al.	7,483,729 B2	1/2009	Al-Ali et al.
D471,444 S	3/2003	Kim et al.	D587,657 S	3/2009	Al-Ali et al.
6,534,012 B1	3/2003	Hazen et al.	7,500,950 B2	3/2009	Al-Ali et al.
6,542,764 B1	4/2003	Al-Ali et al.	7,509,494 B2	3/2009	Al-Ali
			7,510,849 B2	3/2009	Schurman et al.
			7,514,725 B2	4/2009	Wojtczuk et al.
			7,519,406 B2	4/2009	Blank et al.
			D592,507 S	5/2009	Wachman et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

7,530,942 B1	5/2009	Diab	8,471,713 B2	6/2013	Poeze et al.
D601,258 S	9/2009	Bell et al.	8,473,020 B2	6/2013	Kiani et al.
7,593,230 B2	9/2009	Abul-Haj et al.	8,509,867 B2	8/2013	Workman et al.
7,596,398 B2	9/2009	Al-Ali et al.	8,515,509 B2	8/2013	Bruinsma et al.
7,606,608 B2	10/2009	Blank et al.	8,523,781 B2	9/2013	Al-Ali
7,620,674 B2	11/2009	Ruchti et al.	D692,145 S	10/2013	Al-Ali et al.
D606,659 S	12/2009	Kiani et al.	8,571,617 B2	10/2013	Reichgott et al.
7,629,039 B2	12/2009	Eckerbom et al.	8,571,618 B1	10/2013	Lamego et al.
7,640,140 B2	12/2009	Ruchti et al.	8,571,619 B2	10/2013	Al-Ali et al.
7,647,083 B2	1/2010	Al-Ali et al.	8,577,431 B2	11/2013	Lamego et al.
D609,193 S	2/2010	Al-Ali et al.	8,584,345 B2	11/2013	Al-Ali et al.
D614,305 S	4/2010	Al-Ali et al.	8,588,880 B2	11/2013	Abdul-Hafiz et al.
7,697,966 B2	4/2010	Monfre et al.	8,630,691 B2	1/2014	Lamego et al.
7,698,105 B2	4/2010	Ruchti et al.	8,639,319 B2	1/2014	Hugh et al.
RE41,317 E	5/2010	Parker	8,641,631 B2	2/2014	Sierra et al.
RE41,333 E	5/2010	Blank et al.	8,652,060 B2	2/2014	Al-Ali
D616,993 S	6/2010	Muis et al.	8,663,106 B2	3/2014	Stivoric et al.
7,729,733 B2	6/2010	Al-Ali et al.	8,666,468 B1	3/2014	Al-Ali
7,761,127 B2	7/2010	Al-Ali et al.	8,670,811 B2	3/2014	O'Reilly
7,764,982 B2	7/2010	Dalke et al.	RE44,823 E	4/2014	Parker
D621,516 S	8/2010	Kiani et al.	RE44,875 E	4/2014	Kiani et al.
7,791,155 B2	9/2010	Diab	8,688,183 B2	4/2014	Bruinsma et al.
RE41,912 E	11/2010	Parker	8,690,799 B2	4/2014	Telfort et al.
7,880,626 B2	2/2011	Al-Ali et al.	8,702,627 B2	4/2014	Telfort et al.
7,904,133 B2	3/2011	Gehman et al.	8,712,494 B1	4/2014	MacNeish, III et al.
7,909,772 B2	3/2011	Popov et al.	8,715,206 B2	5/2014	Telfort et al.
D636,726 S	4/2011	Hiramura	8,716,629 B2	5/2014	Klewer et al.
7,919,713 B2	4/2011	Al-Ali et al.	8,723,677 B1	5/2014	Kiani
7,937,128 B2	5/2011	Al-Ali	8,740,792 B1	6/2014	Kiani et al.
7,937,129 B2	5/2011	Mason et al.	8,755,535 B2	6/2014	Telfort et al.
7,941,199 B2	5/2011	Kiani	8,755,872 B1	6/2014	Marinow
7,957,780 B2	6/2011	Lamego et al.	D709,439 S	7/2014	Ferber et al.
7,962,188 B2	6/2011	Kiani et al.	8,764,671 B2	7/2014	Kiani
7,976,472 B2	7/2011	Kiani	8,768,423 B2	7/2014	Shakespeare et al.
7,990,382 B2	8/2011	Kiani	8,771,204 B2	7/2014	Telfort et al.
8,008,088 B2	8/2011	Bellott et al.	8,781,544 B2	7/2014	Al-Ali et al.
RE42,753 E	9/2011	Kiani-Azarbayjany et al.	8,790,268 B2	7/2014	Al-Ali
8,028,701 B2	10/2011	Al-Ali et al.	8,801,613 B2	8/2014	Al-Ali et al.
8,048,040 B2	11/2011	Kiani	D712,827 S	9/2014	Maeda et al.
8,050,728 B2	11/2011	Al-Ali et al.	8,821,397 B2	9/2014	Al-Ali et al.
RE43,169 E	2/2012	Parker	8,821,415 B2	9/2014	Al-Ali et al.
8,118,620 B2	2/2012	Al-Ali et al.	8,830,449 B1	9/2014	Lamego et al.
8,130,105 B2	3/2012	Al-Ali et al.	8,840,549 B2	9/2014	Al-Ali et al.
8,182,443 B1	5/2012	Kiani	8,852,094 B2	10/2014	Al-Ali et al.
8,190,223 B2	5/2012	Al-Ali et al.	8,852,994 B2	10/2014	Wojtczuk et al.
8,203,438 B2	6/2012	Kiani et al.	8,897,847 B2	11/2014	Al-Ali
8,203,704 B2	6/2012	Merritt et al.	D719,658 S	12/2014	McDougall et al.
D663,421 S *	7/2012	Steiner D24/169	8,911,377 B2	12/2014	Al-Ali
8,219,172 B2	7/2012	Schurman et al.	D724,222 S	3/2015	Chung et al.
8,224,411 B2	7/2012	Al-Ali et al.	8,989,831 B2	3/2015	Al-Ali et al.
8,229,532 B2	7/2012	Davis	8,998,809 B2	4/2015	Kiani
8,233,955 B2	7/2012	Al-Ali et al.	D728,468 S	5/2015	Ferber et al.
D666,305 S	8/2012	Benarieh et al.	9,066,666 B2	6/2015	Kiani
8,255,026 B1	8/2012	Al-Ali	9,066,680 B1	6/2015	Al-Ali et al.
8,265,723 B1	9/2012	McHale et al.	9,095,316 B2	8/2015	Welch et al.
8,274,360 B2	9/2012	Sampath et al.	9,106,038 B2	8/2015	Telfort et al.
8,280,473 B2	10/2012	Al-Ali	9,107,625 B2	8/2015	Telfort et al.
8,290,574 B2	10/2012	Field et al.	9,119,568 B2	9/2015	Yin et al.
8,315,683 B2	11/2012	Al-Ali et al.	9,131,881 B2	9/2015	Diab et al.
8,315,687 B2	11/2012	Cross et al.	9,138,180 B1	9/2015	Coverston et al.
RE43,860 E	12/2012	Parker	9,153,112 B1	10/2015	Kiani et al.
D671,888 S	12/2012	Dyson et al.	9,192,329 B2	11/2015	Al-Ali
8,346,330 B2	1/2013	Lamego	9,192,351 B1	11/2015	Telfort et al.
8,353,842 B2	1/2013	Al-Ali et al.	9,195,385 B2	11/2015	Al-Ali et al.
8,355,766 B2	1/2013	MacNeish, III et al.	D745,167 S	12/2015	Canas et al.
8,374,665 B2	2/2013	Lamego	9,211,095 B1	12/2015	Al-Ali
8,388,353 B2	3/2013	Kiani et al.	9,218,454 B2	12/2015	Kiani et al.
8,401,602 B2	3/2013	Kiani	9,245,668 B1	1/2016	Vo et al.
8,414,499 B2	4/2013	Al-Ali et al.	9,267,572 B2	2/2016	Barker et al.
8,418,524 B2	4/2013	Al-Ali	D752,229 S	3/2016	Chen et al.
8,428,967 B2	4/2013	Olsen et al.	9,277,880 B2	3/2016	Poeze et al.
8,430,817 B1	4/2013	Al-Ali et al.	9,307,928 B1	4/2016	Al-Ali et al.
8,437,825 B2	5/2013	Dalvi et al.	9,323,894 B2	4/2016	Kiani
8,455,290 B2	6/2013	Siskavich	D755,392 S	5/2016	Hwang et al.
8,457,707 B2	6/2013	Kiani	D755,393 S	5/2016	Amsler
			D755,974 S *	5/2016	Chen D24/165
			9,326,712 B1	5/2016	Kiani
			D759,828 S	6/2016	Riedle
			9,386,923 B2	7/2016	Winter et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

9,392,945 B2	7/2016	Al-Ali et al.	10,188,348 B2	1/2019	Al-Ali et al.
9,408,542 B1	8/2016	Kinast et al.	RE47,218 E	2/2019	Al-Ali
D767,485 S	9/2016	To et al.	RE47,244 E	2/2019	Kiani et al.
D767,487 S	9/2016	Huang	RE47,249 E	2/2019	Kiani et al.
9,436,645 B2	9/2016	Al-Ali et al.	10,205,291 B2	2/2019	Scruggs et al.
9,445,759 B1	9/2016	Lamego et al.	10,213,153 B2	2/2019	Atallah et al.
9,459,089 B2	10/2016	Ganton et al.	10,226,187 B2	3/2019	Al-Ali et al.
9,474,474 B2	10/2016	Lamego et al.	10,231,657 B2	3/2019	Al-Ali et al.
9,480,435 B2	11/2016	Olsen	10,231,670 B2	3/2019	Blank et al.
9,510,755 B2	12/2016	Fong et al.	RE47,353 E	4/2019	Kiani et al.
9,510,779 B2	12/2016	Poeze et al.	D847,372 S	4/2019	Crawford et al.
9,517,024 B2	12/2016	Kiani et al.	10,258,267 B2	4/2019	Ballam et al.
9,532,722 B2	1/2017	Lamego et al.	10,279,247 B2	5/2019	Kiani
9,560,996 B2	2/2017	Kiani	10,292,664 B2	5/2019	Al-Ali
9,579,039 B2	2/2017	Jansen et al.	10,299,720 B2	5/2019	Brown et al.
D782,683 S *	3/2017	Singh D24/167	D851,261 S	6/2019	Ricks
9,610,060 B2	4/2017	Jaeschke et al.	10,327,337 B2	6/2019	Schmidt et al.
9,622,692 B2	4/2017	Lamego et al.	10,327,713 B2	6/2019	Barker et al.
D788,312 S	5/2017	Al-Ali et al.	10,332,630 B2	6/2019	Al-Ali
9,649,054 B2	5/2017	Lamego et al.	D855,203 S	7/2019	Katsumata et al.
9,697,928 B2	7/2017	Al-Ali et al.	D857,205 S	8/2019	Lemons et al.
D794,803 S	8/2017	Thom	10,383,520 B2	8/2019	Wojtczuk et al.
D795,184 S	8/2017	Jung et al.	10,383,527 B2	8/2019	Al-Ali
9,717,458 B2	8/2017	Lamego et al.	10,388,120 B2	8/2019	Muhsin et al.
9,724,016 B1	8/2017	Al-Ali et al.	D864,120 S	10/2019	Forrest et al.
9,724,024 B2	8/2017	Al-Ali	10,441,181 B1	10/2019	Telfort et al.
9,724,025 B1	8/2017	Kiani et al.	10,441,196 B2	10/2019	Eckerbom et al.
9,749,232 B2	8/2017	Sampath et al.	10,448,844 B2	10/2019	Al-Ali et al.
9,750,442 B2	9/2017	Olsen	10,448,871 B2	10/2019	Al-Ali et al.
9,750,461 B1	9/2017	Telfort	10,456,038 B2	10/2019	Lamego et al.
9,775,545 B2	10/2017	Al-Ali et al.	D868,133 S	11/2019	Disciullo et al.
9,778,079 B1	10/2017	Al-Ali et al.	10,463,340 B2	11/2019	Telfort et al.
9,782,077 B2	10/2017	Lamego et al.	10,471,159 B1	11/2019	Lapotko et al.
9,787,568 B2	10/2017	Lamego et al.	10,478,589 B2	11/2019	Cronin et al.
9,808,188 B1	11/2017	Perea et al.	10,499,825 B2	12/2019	Solosko et al.
9,833,171 B2	12/2017	Yin et al.	10,505,311 B2	12/2019	Al-Ali et al.
9,839,379 B2	12/2017	Al-Ali et al.	10,524,672 B2	1/2020	Baek et al.
9,839,381 B1	12/2017	Weber et al.	10,524,738 B2	1/2020	Olsen
9,847,749 B2	12/2017	Kiani et al.	10,531,813 B2	1/2020	O'Neill et al.
9,848,800 B1	12/2017	Lee et al.	10,532,174 B2	1/2020	Al-Ali
D807,501 S	1/2018	Reba Switala	10,537,285 B2	1/2020	Shreim et al.
9,861,298 B2	1/2018	Eckerbom et al.	10,542,903 B2	1/2020	Al-Ali et al.
9,861,305 B1	1/2018	Weber et al.	10,555,678 B2	2/2020	Dalvi et al.
9,877,650 B2	1/2018	Muhsin et al.	10,568,553 B2	2/2020	O'Neil et al.
D810,944 S *	2/2018	Goolkasian D24/167	RE47,882 E	3/2020	Al-Ali
9,891,079 B2	2/2018	Dalvi	10,575,780 B2	3/2020	Van Den Ende et al.
9,907,473 B2	3/2018	Tran	10,595,726 B2	3/2020	Cronin et al.
9,924,897 B1	3/2018	Abdul-Hafiz	10,603,429 B2	3/2020	Dantsker
D815,743 S	4/2018	Liao et al.	10,608,817 B2	3/2020	Haider et al.
9,936,917 B2	4/2018	Poeze et al.	D880,477 S	4/2020	Forrest et al.
D818,129 S	5/2018	Heine et al.	10,617,302 B2	4/2020	Al-Ali et al.
9,955,937 B2	5/2018	Telfort	10,617,335 B2	4/2020	Al-Ali et al.
9,955,939 B2	5/2018	Sezan et al.	10,624,580 B2	4/2020	DeGroot et al.
9,965,946 B2	5/2018	Al-Ali et al.	10,637,181 B2	4/2020	Al-Ali et al.
9,968,772 B2	5/2018	Kockx et al.	D884,165 S	5/2020	deBock et al.
D820,865 S	6/2018	Muhsin et al.	D885,586 S	5/2020	Lopez Pimienta et al.
9,986,952 B2	6/2018	Dalvi et al.	10,642,960 B2	5/2020	Goguen
D822,215 S	7/2018	Al-Ali et al.	D887,548 S	6/2020	Abdul-Hafiz et al.
D822,216 S	7/2018	Barker et al.	D887,549 S	6/2020	Abdul-Hafiz et al.
10,010,276 B2	7/2018	Al-Ali et al.	10,667,751 B2	6/2020	Kaskoun et al.
10,062,958 B2	8/2018	Ganton et al.	10,667,764 B2	6/2020	Ahmed et al.
D831,842 S	10/2018	Katsumata et al.	D890,708 S	7/2020	Forrest et al.
10,086,138 B1	10/2018	Novak, Jr.	10,721,785 B2	7/2020	Al-Ali
10,111,591 B2	10/2018	Dyell et al.	10,736,518 B2	8/2020	Al-Ali et al.
D833,624 S	11/2018	DeJong et al.	10,750,984 B2	8/2020	Pauley et al.
10,123,729 B2	11/2018	Dyell et al.	D895,122 S	9/2020	Benedikter et al.
D835,282 S	12/2018	Barker et al.	D897,098 S	9/2020	Al-Ali
D835,283 S	12/2018	Barker et al.	10,758,164 B2	9/2020	Derkx et al.
D835,284 S	12/2018	Barker et al.	10,779,098 B2	9/2020	Iswanto et al.
D835,285 S	12/2018	Barker et al.	10,799,128 B2	10/2020	Paulussen et al.
10,143,383 B2	12/2018	Tseng et al.	10,827,961 B1	11/2020	Iyengar et al.
10,149,616 B2	12/2018	Al-Ali et al.	10,828,007 B1	11/2020	Telfort et al.
10,154,815 B2	12/2018	Al-Ali et al.	10,832,818 B2	11/2020	Muhsin et al.
10,159,412 B2	12/2018	Lamego et al.	10,842,464 B2	11/2020	Lambert et al.
10,183,142 B2	1/2019	Garcia Molina 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.

(56)

References Cited

U.S. PATENT DOCUMENTS

10,856,750	B2	12/2020	Indorf et al.	2013/0296672	A1	11/2013	O'Neil et al.
D906,970	S	1/2021	Forrest et al.	2013/0345921	A1	12/2013	Al-Ali et al.
D908,894	S *	1/2021	Eslava D24/186	2014/0166076	A1	6/2014	Kiani et al.
10,918,281	B2	2/2021	Al-Ali et al.	2014/0180160	A1	6/2014	Brown et al.
D914,887	S	3/2021	Allen et al.	2014/0187973	A1	7/2014	Brown et al.
D914,896	S *	3/2021	Hoshino D24/200	2014/0243612	A1	8/2014	Li et al.
10,932,705	B2	3/2021	Muhsin et al.	2014/0275871	A1	9/2014	Lamego et al.
10,932,729	B2	3/2021	Kiani et al.	2014/0275872	A1	9/2014	Merritt et al.
D917,704	S *	4/2021	Al-Ali D24/186	2014/0316217	A1	10/2014	Purdon et al.
10,991,135	B2	4/2021	Al-Ali et al.	2014/0316218	A1	10/2014	Purdon et al.
D919,094	S *	5/2021	Al-Ali D24/165	2014/0323897	A1	10/2014	Brown et al.
D919,100	S *	5/2021	Al-Ali D24/186	2014/0323898	A1	10/2014	Purdon et al.
D919,101	S *	5/2021	Jung D24/186	2015/0005600	A1	1/2015	Blank et al.
D921,202	S *	6/2021	Al-Ali D24/165	2015/0011907	A1	1/2015	Purdon et al.
2001/0034477	A1	10/2001	Mansfield et al.	2015/0025400	A1	1/2015	Nishioka et al.
2001/0039483	A1	11/2001	Brand et al.	2015/0073241	A1	3/2015	Lamego
2002/0010401	A1	1/2002	Bushmakina et al.	2015/0080754	A1	3/2015	Purdon et al.
2002/0058864	A1	5/2002	Mansfield et al.	2015/0099950	A1	4/2015	Al-Ali et al.
2002/0133080	A1	9/2002	Apruzzese et al.	2015/0106121	A1	4/2015	Muhsin et al.
2003/0013975	A1	1/2003	Kiani	2015/0269825	A1	9/2015	Tran
2003/0018243	A1	1/2003	Gerhardt et al.	2015/0313499	A1	11/2015	Sohn
2003/0144582	A1	7/2003	Cohen et al.	2016/0007861	A1	1/2016	Tseng et al.
2003/0156288	A1	8/2003	Barnum et al.	2016/0196388	A1	7/2016	Lamego
2003/0212312	A1	11/2003	Coffin, IV et al.	2016/0367173	A1	12/2016	Dalvi et al.
2004/0106163	A1	6/2004	Workman, Jr. et al.	2017/0024748	A1	1/2017	Haider
2005/0055276	A1	3/2005	Kiani et al.	2017/0042488	A1	2/2017	Muhsin
2005/0107714	A1	5/2005	Matsumura et al.	2017/0055896	A1	3/2017	Al-Ali
2005/0234317	A1	10/2005	Kiani	2017/0173632	A1	6/2017	Al-Ali
2006/0059364	A1	3/2006	Fontijn	2017/0251974	A1	9/2017	Shreim et al.
2006/0073719	A1	4/2006	Kiani	2017/0296124	A1	10/2017	Creemers et al.
2006/0084880	A1	4/2006	Such et al.	2017/0311891	A1	11/2017	Kiani et al.
2006/0189871	A1	8/2006	Al-Ali et al.	2017/0360329	A1	12/2017	Derkx et al.
2007/0073116	A1	3/2007	Kiani et al.	2018/0049656	A1	2/2018	Paulussen et al.
2007/0167850	A1	7/2007	Russell et al.	2018/0103874	A1	4/2018	Lee et al.
2007/0180140	A1	8/2007	Welch et al.	2018/0125444	A1	5/2018	Kahlman et al.
2007/0244377	A1	10/2007	Cozad et al.	2018/0146867	A1	5/2018	Torihama et al.
2008/0064965	A1	3/2008	Jay et al.	2018/0184926	A1	7/2018	Doi et al.
2008/0094228	A1	4/2008	Welch et al.	2018/0235567	A1	8/2018	Bezemer et al.
2008/0221418	A1	9/2008	Al-Ali et al.	2018/0242926	A1	8/2018	Muhsin et al.
2008/0288026	A1	11/2008	Cross et al.	2018/0247353	A1	8/2018	Al-Ali et al.
2009/0036759	A1	2/2009	Ault et al.	2018/0247712	A1	8/2018	Muhsin et al.
2009/0093687	A1	4/2009	Telfort et al.	2018/0256087	A1	9/2018	Al-Ali et al.
2009/0095926	A1	4/2009	MacNeish, III	2018/0289340	A1	10/2018	Trindade Rodrigues et al.
2009/0204100	A1	8/2009	Van Pieteron et al.	2018/0296161	A1	10/2018	Shreim et al.
2009/0247984	A1	10/2009	Lamego et al.	2018/0300919	A1	10/2018	Muhsin et al.
2009/0275813	A1	11/2009	Davis	2018/0310822	A1	11/2018	Indorf et al.
2010/0004518	A1	1/2010	Vo et al.	2018/0310823	A1	11/2018	Al-Ali et al.
2010/0030040	A1	2/2010	Poeze et al.	2018/0317779	A1	11/2018	Gregg et al.
2010/0076315	A1	3/2010	Erkamp et al.	2018/0317826	A1	11/2018	Muhsin et al.
2010/0099964	A1	4/2010	O'Reilly et al.	2018/0333053	A1	11/2018	Verkruisje et al.
2010/0106076	A1	4/2010	Nisato et al.	2018/0360373	A1	12/2018	Aarts et al.
2010/0234718	A1	9/2010	Sampath et al.	2018/0364109	A1	12/2018	Bongers et al.
2010/0249542	A1	9/2010	Thijs et al.	2019/0015023	A1	1/2019	Monfre
2010/0270257	A1	10/2010	Wachman et al.	2019/0117070	A1	4/2019	Muhsin et al.
2011/0028806	A1	2/2011	Merritt et al.	2019/0133488	A1	5/2019	Meftah et al.
2011/0028809	A1	2/2011	Goodman	2019/0142280	A1	5/2019	Bongers et al.
2011/0040197	A1	2/2011	Welch et al.	2019/0200941	A1	7/2019	Chandran et al.
2011/0082711	A1	4/2011	Poeze et al.	2019/0239787	A1	8/2019	Pauley et al.
2011/0087081	A1	4/2011	Kiani et al.	2019/0261923	A1	8/2019	Talgorn et al.
2011/0118561	A1	5/2011	Tari et al.	2019/0282180	A1	9/2019	Babaeizadeh
2011/0125040	A1	5/2011	Crawford et al.	2019/0298195	A1	10/2019	De Groot et al.
2011/0137297	A1	6/2011	Kiani et al.	2019/0320906	A1	10/2019	Olsen
2011/0172498	A1	7/2011	Olsen et al.	2019/0374139	A1	12/2019	Kiani et al.
2011/0230733	A1	9/2011	Al-Ali	2019/0374173	A1	12/2019	Kiani et al.
2011/0237924	A1	9/2011	McGusty et al.	2019/0374713	A1	12/2019	Kiani et al.
2012/0123231	A1	5/2012	O'Reilly	2020/0021930	A1	1/2020	Iswanto et al.
2012/0130204	A1	5/2012	Basta et al.	2020/0035366	A1	1/2020	Gummireddy et al.
2012/0165629	A1	6/2012	Merritt et al.	2020/0060869	A1	2/2020	Telfort et al.
2012/0209084	A1	8/2012	Olsen et al.	2020/0069281	A1	3/2020	Chan et al.
2012/0226117	A1	9/2012	Lamego et al.	2020/0085310	A1	3/2020	Zahner et al.
2012/0283524	A1	11/2012	Kiani et al.	2020/0086133	A1	3/2020	Wang et al.
2013/0023775	A1	1/2013	Lamego et al.	2020/0111552	A1	4/2020	Ahmed
2013/0041591	A1	2/2013	Lamego	2020/0113435	A1	4/2020	Muhsin
2013/0060147	A1	3/2013	Welch et al.	2020/0113488	A1	4/2020	Al-Ali et al.
2013/0096405	A1	4/2013	Garfio	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.

(56)

References Cited

U.S. PATENT DOCUMENTS

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 et al.
 2020/0345252 A1 11/2020 Huijbregts et al.
 2021/0022628 A1 1/2021 Telfort et al.
 2021/0104173 A1 4/2021 Pauley et al.

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

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

* cited by examiner

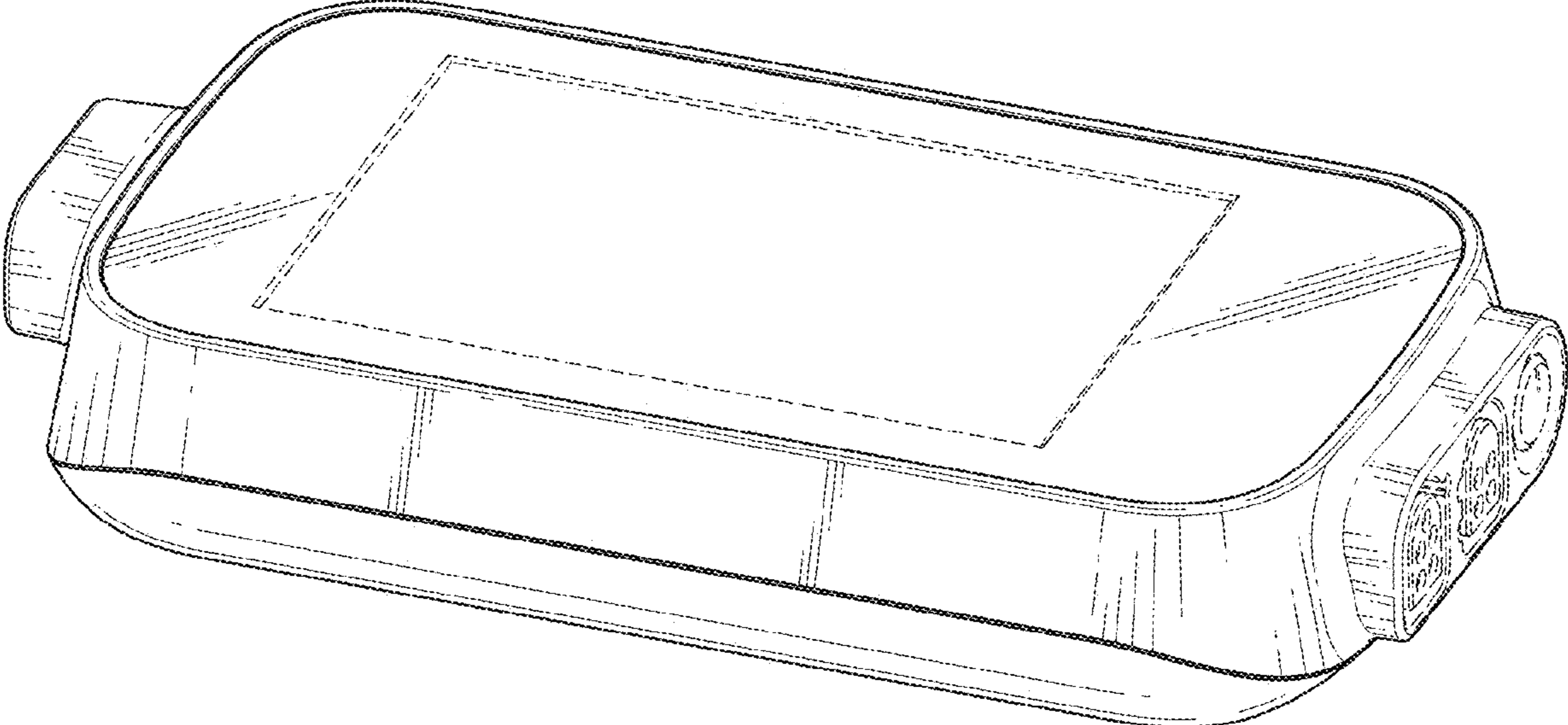


FIG. 1

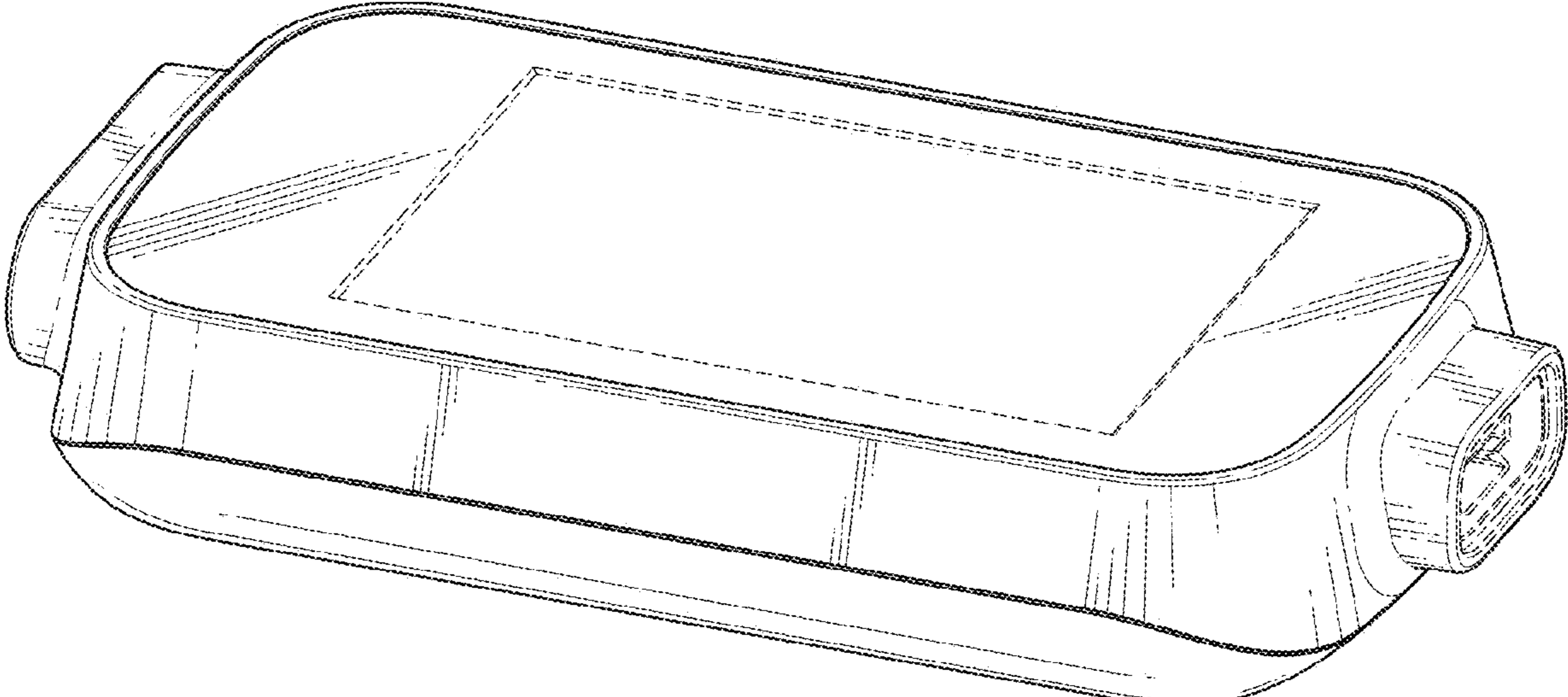


FIG. 2

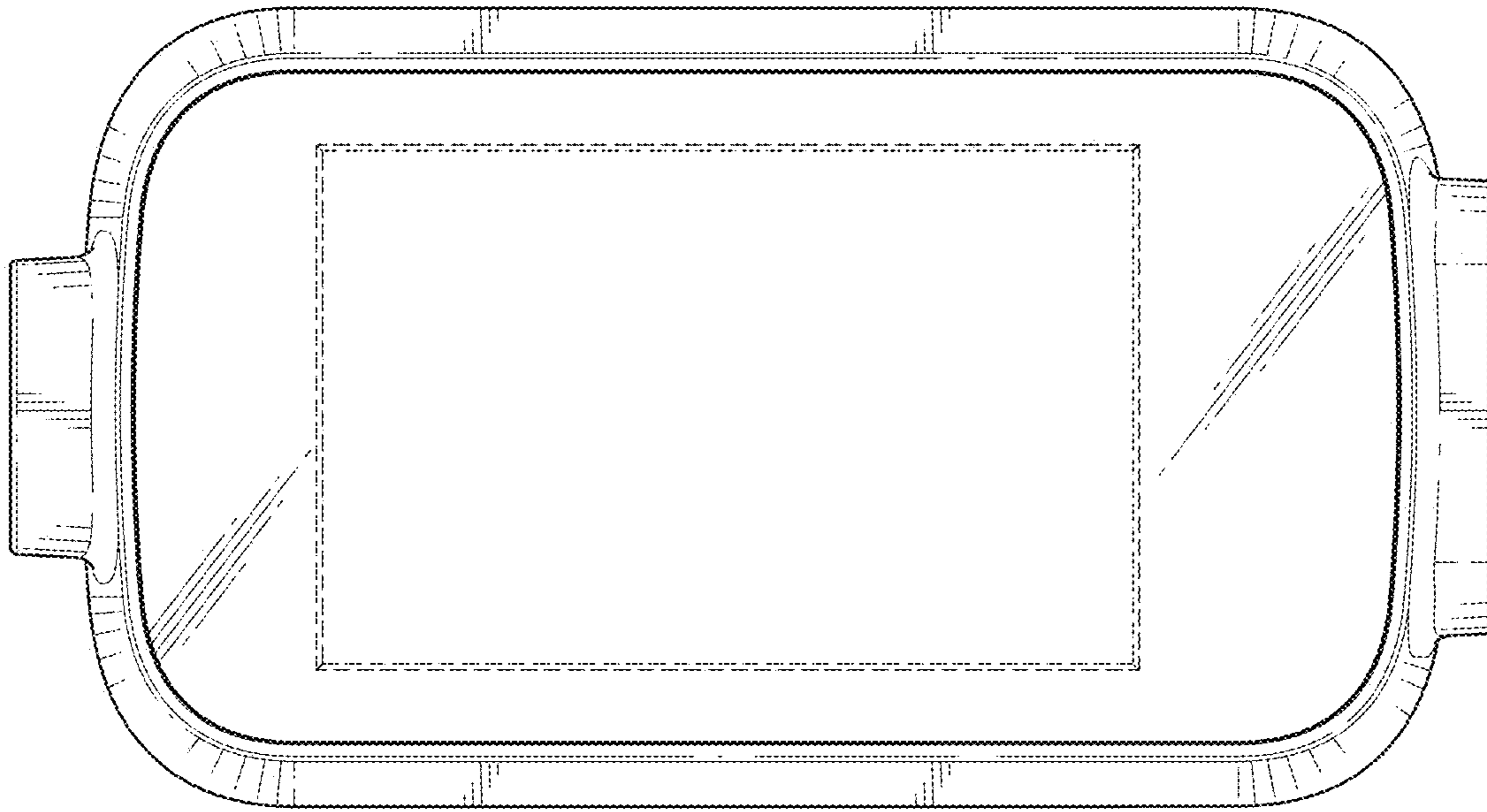


FIG. 3

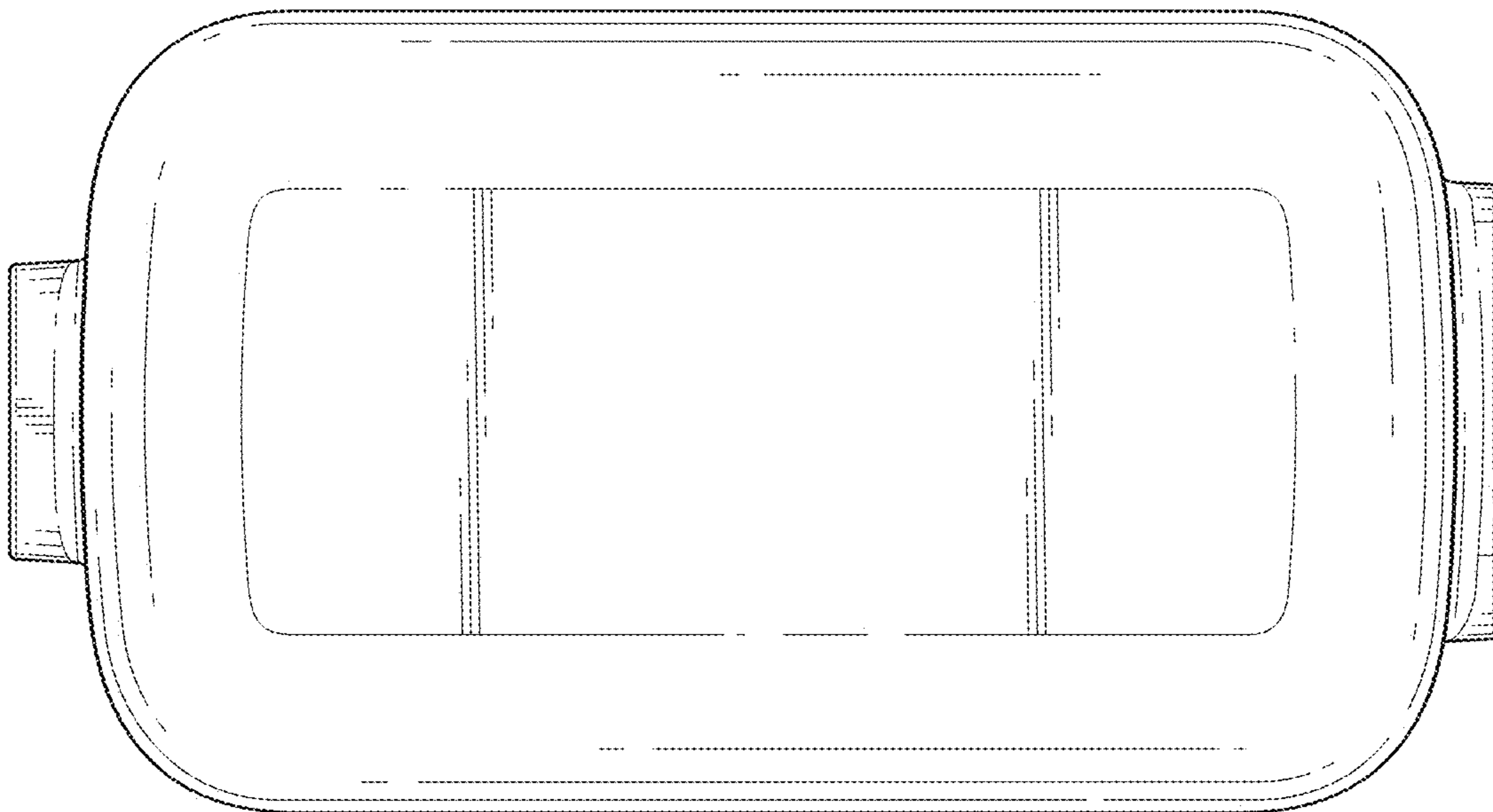


FIG. 4

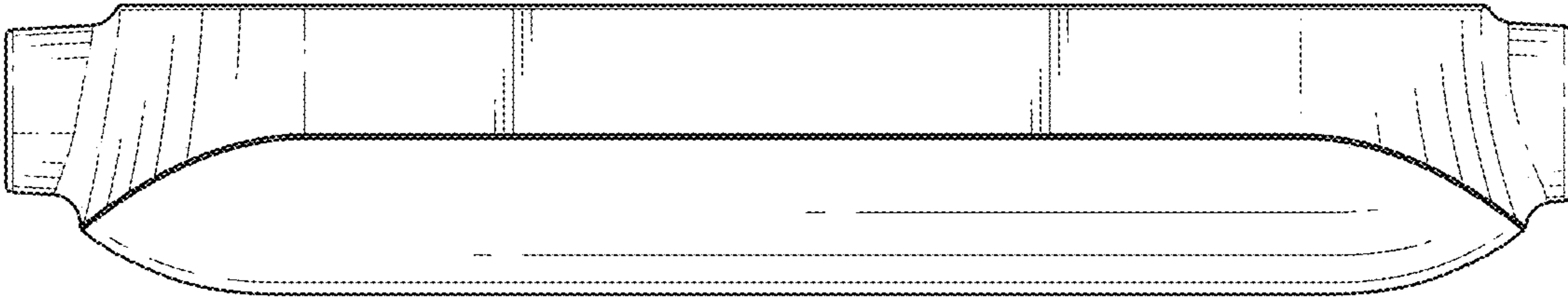


FIG. 5

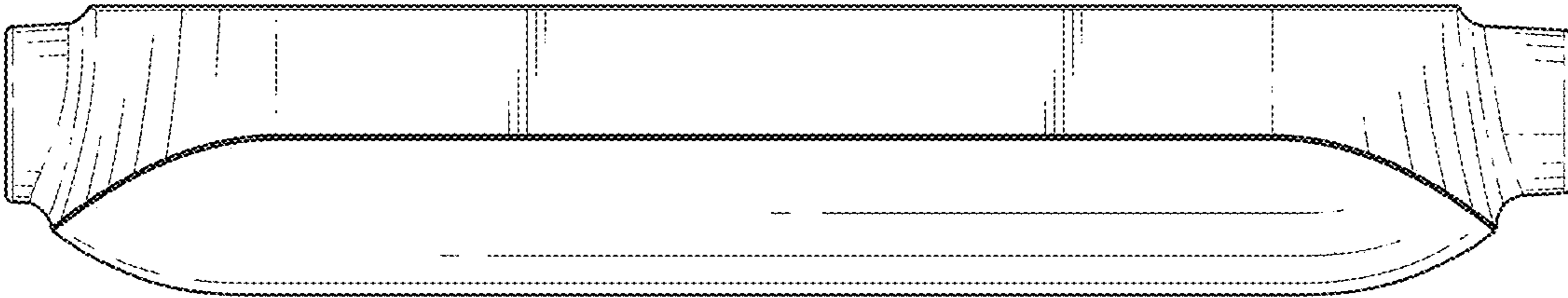


FIG. 6

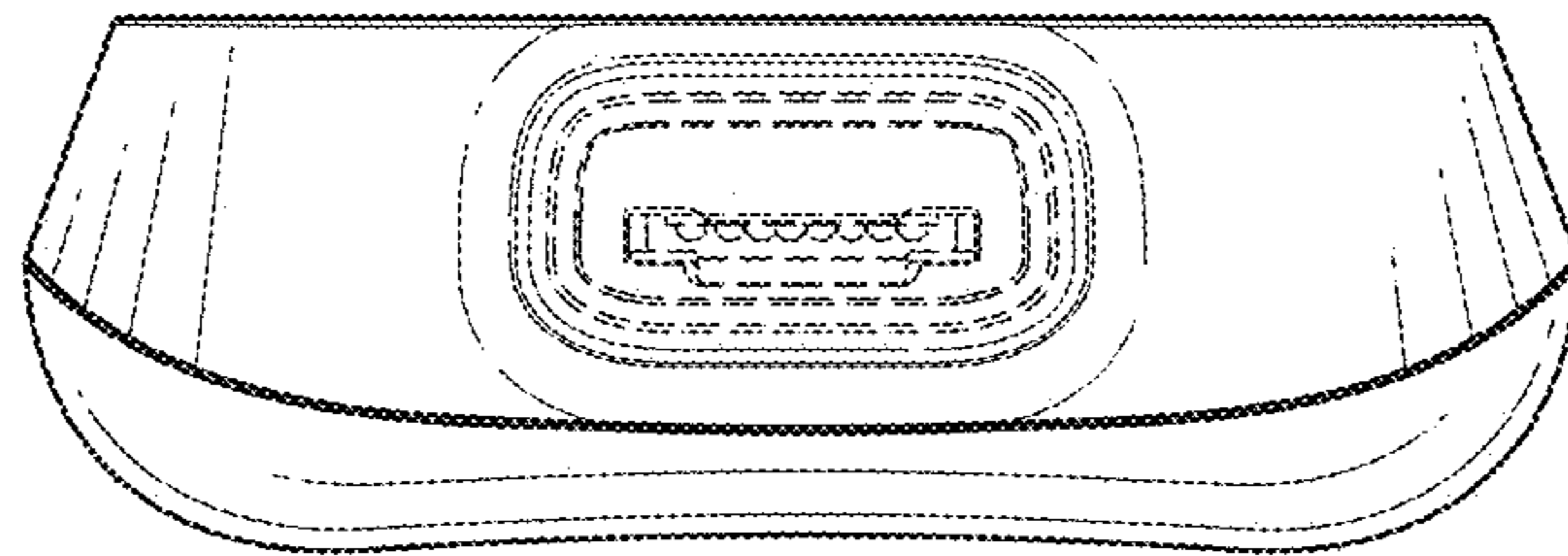


FIG. 7

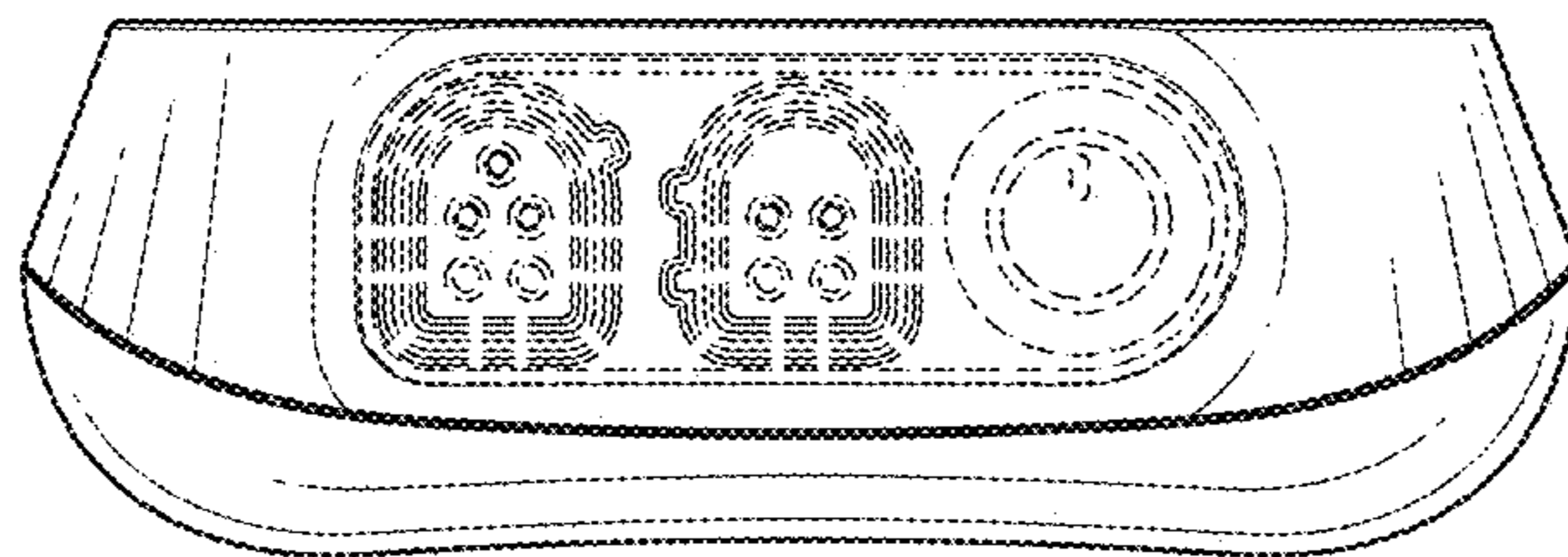


FIG. 8