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**Al-Ali et al.**

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(54) **ELECTRODE PAD**

D346,798 S 5/1994 Nagele  
5,319,355 A 6/1994 Russek  
5,337,744 A 8/1994 Branigan  
(Continued)

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FOREIGN PATENT DOCUMENTS

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

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OTHER PUBLICATIONS

Cake Board 7.5" Round—Golden. Online, published date unknown. Retrieved on Apr. 5, 2021 from uRL: <https://banglanceed.com/product/cake-board-7-5-round-golden/>\*

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

(Continued)

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(52) **U.S. Cl.**

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(58) **Field of Classification Search**

USPC ..... D24/107, 168, 186, 187, 189, 200;  
D30/160

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See application file for complete search history.

(57)

**CLAIM**

The ornamental design for an electrode pad, as shown and described.

**DESCRIPTION**

(56) **References Cited**

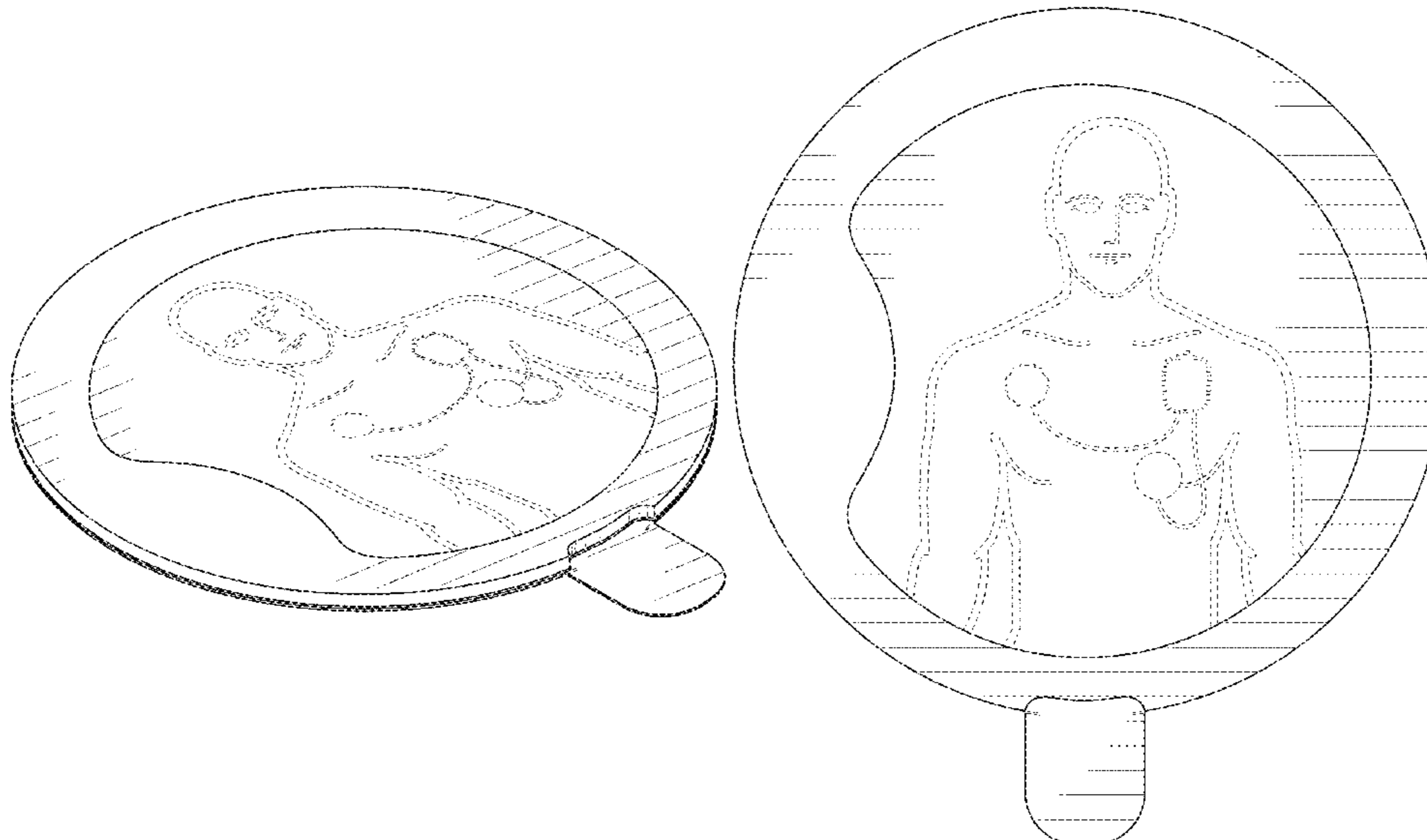
U.S. PATENT DOCUMENTS

3,434,651 A \* 3/1969 Stec ..... B65D 17/12  
229/123.1  
D278,363 S \* 4/1985 Schenkel ..... D24/189  
D295,383 S \* 4/1988 Anderson ..... D9/438  
D297,460 S \* 8/1988 Inoue ..... D24/168  
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.

FIG. 1 is a perspective view of an electrode pad 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;  
FIG. 7 is a back view thereof; and,  
FIG. 8 is another perspective view thereof.

The broken lines in FIGS. 1-3 depict portions of the electrode pad that form no part of the claimed design. The rest of the broken lines shown in FIG. 8 depict environmental subject matter and form no part of the claimed design.

**1 Claim, 6 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 ..... D24/189
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 ..... D24/189	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 ..... D9/438
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	Macklern 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 ..... D6/407	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 ..... D9/429	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	8,473,020 B2	6/2013	Kiani et al.
D601,258 S	9/2009	Bell et al.	8,509,867 B2	8/2013	Workman et al.
7,593,230 B2	9/2009	Abul-Haj et al.	8,515,509 B2	8/2013	Bruinsma et al.
7,596,398 B2	9/2009	Al-Ali et al.	8,523,781 B2	9/2013	Al-Ali
7,606,608 B2	10/2009	Blank et al.	D692,145 S	10/2013	Al-Ali et al.
7,620,674 B2	11/2009	Ruchti et al.	8,571,617 B2	10/2013	Reichgott et al.
D606,659 S	12/2009	Kiani et al.	8,571,618 B1	10/2013	Lamego et al.
7,629,039 B2	12/2009	Eckerbom et al.	8,571,619 B2	10/2013	Al-Ali et al.
7,640,140 B2	12/2009	Ruchti et al.	8,577,431 B2	11/2013	Lamego et al.
7,647,083 B2	1/2010	Al-Ali et al.	8,584,345 B2	11/2013	Al-Ali et al.
D609,193 S	2/2010	Al-Ali et al.	8,588,880 B2	11/2013	Abdul-Hafiz et al.
D614,305 S	4/2010	Al-Ali et al.	8,630,691 B2	1/2014	Lamego et al.
7,697,966 B2	4/2010	Monfre et al.	8,639,319 B2	1/2014	Hugh et al.
7,698,105 B2	4/2010	Ruchti et al.	8,641,631 B2	2/2014	Sierra et al.
RE41,317 E	5/2010	Parker	8,652,060 B2	2/2014	Al-Ali
RE41,333 E	5/2010	Blank et al.	8,663,106 B2	3/2014	Stivoric et al.
D616,993 S	6/2010	Muis et al.	8,666,468 B1	3/2014	Al-Ali
7,729,733 B2	6/2010	Al-Ari et al.	8,670,811 B2	3/2014	O'Reilly
7,761,127 B2	7/2010	Al-Ali et al.	RE44,823 E	4/2014	Parker
7,764,982 B2	7/2010	Dalke et al.	RE44,875 E	4/2014	Kiani et al.
D621,516 S	8/2010	Kiani et al.	8,688,183 B2	4/2014	Bruinsma et al.
7,791,155 B2	9/2010	Diab	8,690,799 B2	4/2014	Telfort et al.
RE41,912 E	11/2010	Parker	8,702,627 B2	4/2014	Telfort et al.
7,880,626 B2	2/2011	Al-Ali et al.	8,712,494 B1	4/2014	MacNeish, Iii et al.
7,904,133 B2	3/2011	Gehman et al.	8,715,206 B2	5/2014	Telfort et al.
7,909,772 B2	3/2011	Popov et al.	8,716,629 B2	5/2014	Klewer et al.
D636,726 S	4/2011	Hiramura	8,723,677 B1	5/2014	Kiani
7,919,713 B2	4/2011	Al-Ali et al.	8,740,792 B1	6/2014	Kiani et al.
7,937,128 B2	5/2011	Al-Ali	8,755,535 B2	6/2014	Telfort et al.
7,937,129 B2	5/2011	Mason et al.	8,755,872 B1	6/2014	Marinow
7,941,199 B2	5/2011	Kiani	D709,439 S	7/2014	Ferber et al.
7,957,780 B2	6/2011	Lamego et al.	8,764,671 B2	7/2014	Kiani
7,962,188 B2	6/2011	Kiani et al.	8,768,423 B2	7/2014	Shakespeare et al.
7,976,472 B2	7/2011	Kiani	8,771,204 B2	7/2014	Telfort et al.
7,990,382 B2	8/2011	Kiani	8,781,544 B2	7/2014	Al-Ali et al.
8,008,088 B2	8/2011	Bellott et al.	8,790,268 B2	7/2014	Al-Ali
RE42,753 E	9/2011	Kiani-Azarbayjany et al.	8,801,613 B2	8/2014	Al-Ali et al.
8,028,701 B2	10/2011	Al-Ali et al.	D712,827 S	9/2014	Maeda et al.
8,048,040 B2	11/2011	Kiani	8,821,397 B2	9/2014	Al-Ali et al.
8,050,728 B2	11/2011	Al-Ali et al.	8,821,415 B2	9/2014	Al-Ali et al.
RE43,169 E	2/2012	Parker	8,830,449 B1	9/2014	Lamego et al.
8,118,620 B2	2/2012	Al-Ali et al.	8,840,549 B2	9/2014	Al-Ali et al.
8,130,105 B2	3/2012	Al-Ali et al.	8,852,094 B2	10/2014	Al-Ali et al.
8,182,443 B1	5/2012	Kiani	8,852,994 B2	10/2014	Wojtczuk et al.
8,190,223 B2	5/2012	Al-Ali et al.	8,897,847 B2	11/2014	Al-Ali
8,203,438 B2	6/2012	Kiani et al.	D719,658 S	12/2014	McDougall et al.
8,203,704 B2	6/2012	Merritt et al.	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
8,471,713 B2	6/2013	Poeze et al.	9,326,712 B1	5/2016	Kiani
			D759,828 S *	6/2016	Riedle ..... D24/189
			9,386,923 B2	7/2016	Winter et al.
			9,392,945 B2	7/2016	Al-Ali et al.
			9,408,542 B1	8/2016	Kinast et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

D767,485 S	9/2016	To et al.	10,205,291 B2	2/2019	Scruggs et al.
D767,487 S	9/2016	Huang	10,213,153 B2	2/2019	Atallah et al.
9,436,645 B2	9/2016	Al-Ali et al.	10,226,187 B2	3/2019	Al-Ali et al.
9,445,759 B1	9/2016	Lamego et al.	10,231,657 B2	3/2019	Al-Ali et al.
9,459,089 B2	10/2016	Ganton et al.	10,231,670 B2	3/2019	Blank et al.
9,474,474 B2	10/2016	Lamego et al.	RE47,353 E	4/2019	Kiani et al.
9,480,435 B2	11/2016	Olsen	D847,372 S	4/2019	Crawford et al.
9,510,755 B2	12/2016	Fong et al.	10,258,267 B2	4/2019	Ballam et al.
9,510,779 B2	12/2016	Poeze et al.	10,279,247 B2	5/2019	Kiani
9,517,024 B2	12/2016	Kiani et al.	10,292,664 B2	5/2019	Al-Ali
9,532,722 B2	1/2017	Lamego et al.	10,299,720 B2	5/2019	Brown et al.
9,560,996 B2	2/2017	Kiani	D851,261 S *	6/2019	Ricks ..... D24/189
9,579,039 B2	2/2017	Jansen et al.	10,327,337 B2	6/2019	Schmidt et al.
9,610,060 B2	4/2017	Jaeschke et al.	10,327,713 B2	6/2019	Barker et al.
9,622,692 B2	4/2017	Lamego et al.	10,332,630 B2	6/2019	Al-Ali
D788,312 S	5/2017	Al-Ali et al.	D855,203 S *	7/2019	Katsumata ..... D24/224
9,649,054 B2	5/2017	Lamego et al.	D857,205 S *	8/2019	Lemons ..... D24/168
9,697,928 B2	7/2017	Al-Ali et al.	10,383,520 B2	8/2019	Wojtczuk et al.
D794,803 S	8/2017	Thorn	10,383,527 B2	8/2019	Al-Ali
D795,184 S	8/2017	Jung et al.	10,388,120 B2	8/2019	Muhsin et al.
9,717,458 B2	8/2017	Lamego et al.	D864,120 S	10/2019	Forrest et al.
9,724,016 B1	8/2017	Al-Ali et al.	10,441,181 B1	10/2019	Telfort et al.
9,724,024 B2	8/2017	Al-Ali	10,441,196 B2	10/2019	Eckerbom et al.
9,724,025 B1	8/2017	Kiani et al.	10,448,844 B2	10/2019	Al-Ali et al.
9,749,232 B2	8/2017	Sampath et al.	10,448,871 B2	10/2019	Al-Ali et al.
9,750,442 B2	9/2017	Olsen	10,456,038 B2	10/2019	Lamego et al.
9,750,461 B1	9/2017	Telfort	D868,133 S *	11/2019	Disciullo ..... D16/219
9,775,545 B2	10/2017	Al-Ali et al.	10,463,340 B2	11/2019	Telfort et al.
9,778,079 B1	10/2017	Al-Ali et al.	10,471,159 B1	11/2019	Lapotko et al.
9,782,077 B2	10/2017	Lamego et al.	10,478,589 B2	11/2019	Cronin et al.
9,787,568 B2	10/2017	Lamego et al.	10,499,825 B2	12/2019	Solosko et al.
9,808,188 B1	11/2017	Perea et al.	10,505,311 B2	12/2019	Al-Ali et al.
9,833,171 B2	12/2017	Yin et al.	10,524,672 B2	1/2020	Baek et al.
9,839,379 B2	12/2017	Al-Ali et al.	10,524,738 B2	1/2020	Olsen
9,839,381 B1	12/2017	Weber et al.	10,531,813 B2	1/2020	O'Neill et al.
9,847,749 B2	12/2017	Kiani et al.	10,532,174 B2	1/2020	Al-Ali
9,848,800 B1	12/2017	Lee et al.	10,537,285 B2	1/2020	Shreim et al.
D807,501 S *	1/2018	Reba Switala ..... D24/127	10,542,903 B2	1/2020	Al-Ali et al.
9,861,298 B2	1/2018	Eckerbom et al.	10,555,678 B2	2/2020	Dalvi et al.
9,861,305 B1	1/2018	Weber et al.	10,568,553 B2	2/2020	O'Neil et al.
9,877,650 B2	1/2018	Muhsin et al.	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 ..... D24/189
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 ..... D24/224	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 ..... D24/225
10,188,348 B2	1/2019	Al-Ali et al.	D905,253 S *	12/2020	Hubelbank ..... D24/189
RE47,218 E	2/2019	Al-Ali	D905,268 S *	12/2020	Katsumata ..... D24/224
RE47,244 E	2/2019	Kiani et al.	D905,270 S *	12/2020	Katsumata ..... D24/224
RE47,249 E	2/2019	Kiani 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.
			10,918,281 B2	2/2021	Al-Ali et al.
			D914,887 S *	3/2021	Allen ..... D24/189

(56)

References Cited

U.S. PATENT DOCUMENTS

10,932,705 B2	3/2021	Muhsin et al.	2015/0005600 A1	1/2015	Blank et al.
10,932,729 B2	3/2021	Kiani et al.	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 ..... A61B 5/24 600/391
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 Pieterse 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.
2013/0296672 A1	11/2013	O'Neil et al.	2020/0113497 A1	4/2020	Triman et al.
2013/0345921 A1	12/2013	Al-Ali et al.	2020/0113520 A1	4/2020	Abdul-Hafiz et al.
2014/0166076 A1	6/2014	Kiani et al.	2020/0138288 A1	5/2020	Al-Ali et al.
2014/0180160 A1	6/2014	Brown et al.	2020/0138368 A1	5/2020	Kiani et al.
2014/0187973 A1	7/2014	Brown et al.	2020/0163597 A1	5/2020	Dalvi et al.
2014/0243612 A1	8/2014	Li et al.	2020/0163647 A1	5/2020	Hakkens et al.
2014/0275871 A1	9/2014	Lamego et al.	2020/0178932 A1	6/2020	Te Velde et al.
2014/0275872 A1	9/2014	Merritt et al.	2020/0196877 A1	6/2020	Vo et al.
2014/0316217 A1	10/2014	Purdon et al.	2020/0253474 A1	8/2020	Muhsin et al.
2014/0316218 A1	10/2014	Purdon et al.	2020/0253544 A1	8/2020	Belur Nagaraj et al.
2014/0323897 A1	10/2014	Brown et al.	2020/0275841 A1	9/2020	Telfort et al.
2014/0323898 A1	10/2014	Purdon 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.

(56)

**References Cited**

U.S. PATENT DOCUMENTS

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.

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

Plastic yogurt container with peel off lid. Online, published date unknown. Retrieved on Apr. 6, 2021 from URL: <https://www.istockphoto.com/vector/plastic-yogurt-container-with-peel-off-lid-realistic-vector-mockup-yoghurt-gm1179621404-330158057>.\*

Innovative solutions in resuscitation therapy. Online, published date 2013. Retrieved on Apr. 6, 2021 from URL: <https://www.wessex-medical.com/wp-content/uploads/2019/03/Philips-Defib-Pads.pdf>.\*

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

\* cited by examiner

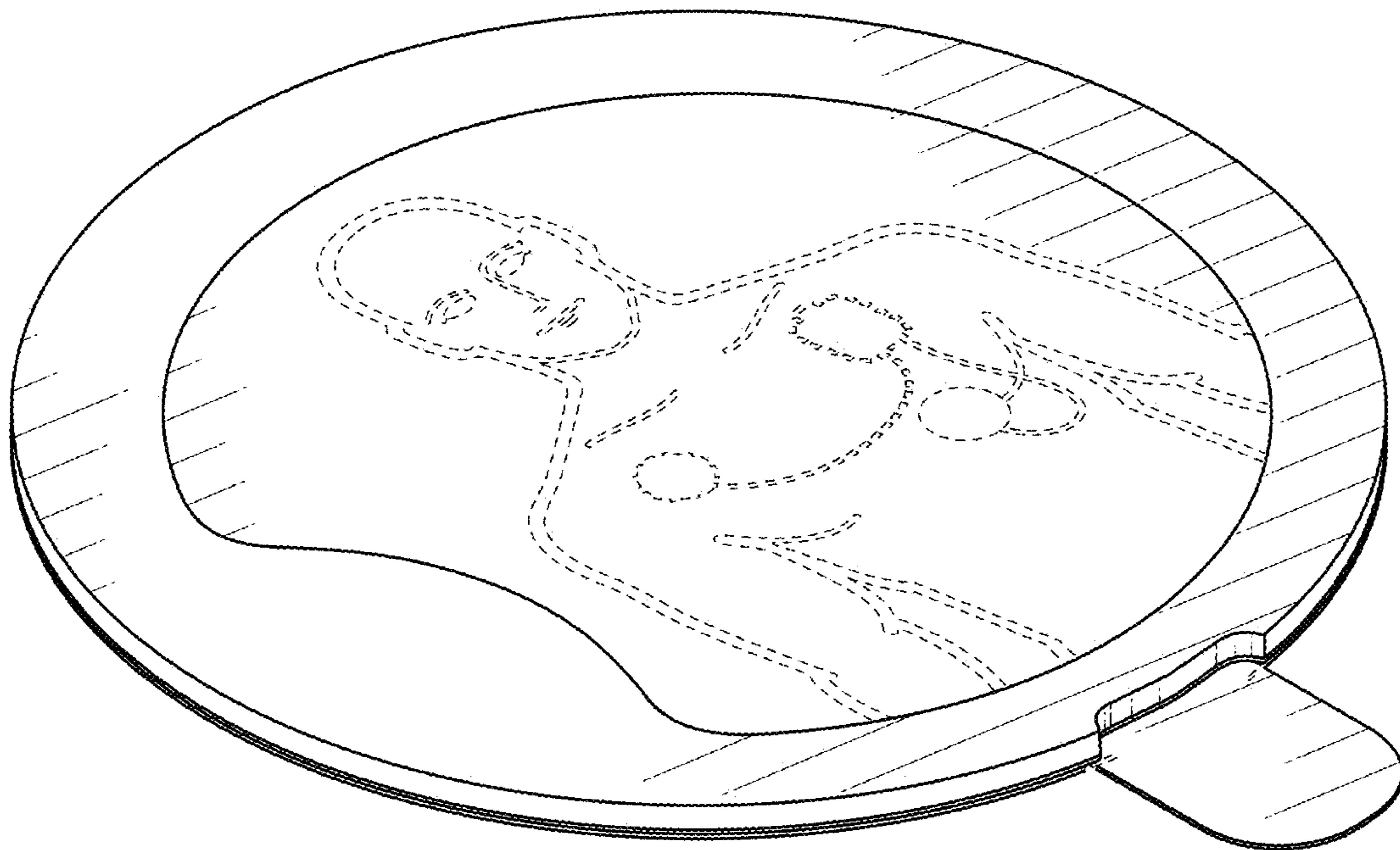


FIG. 1

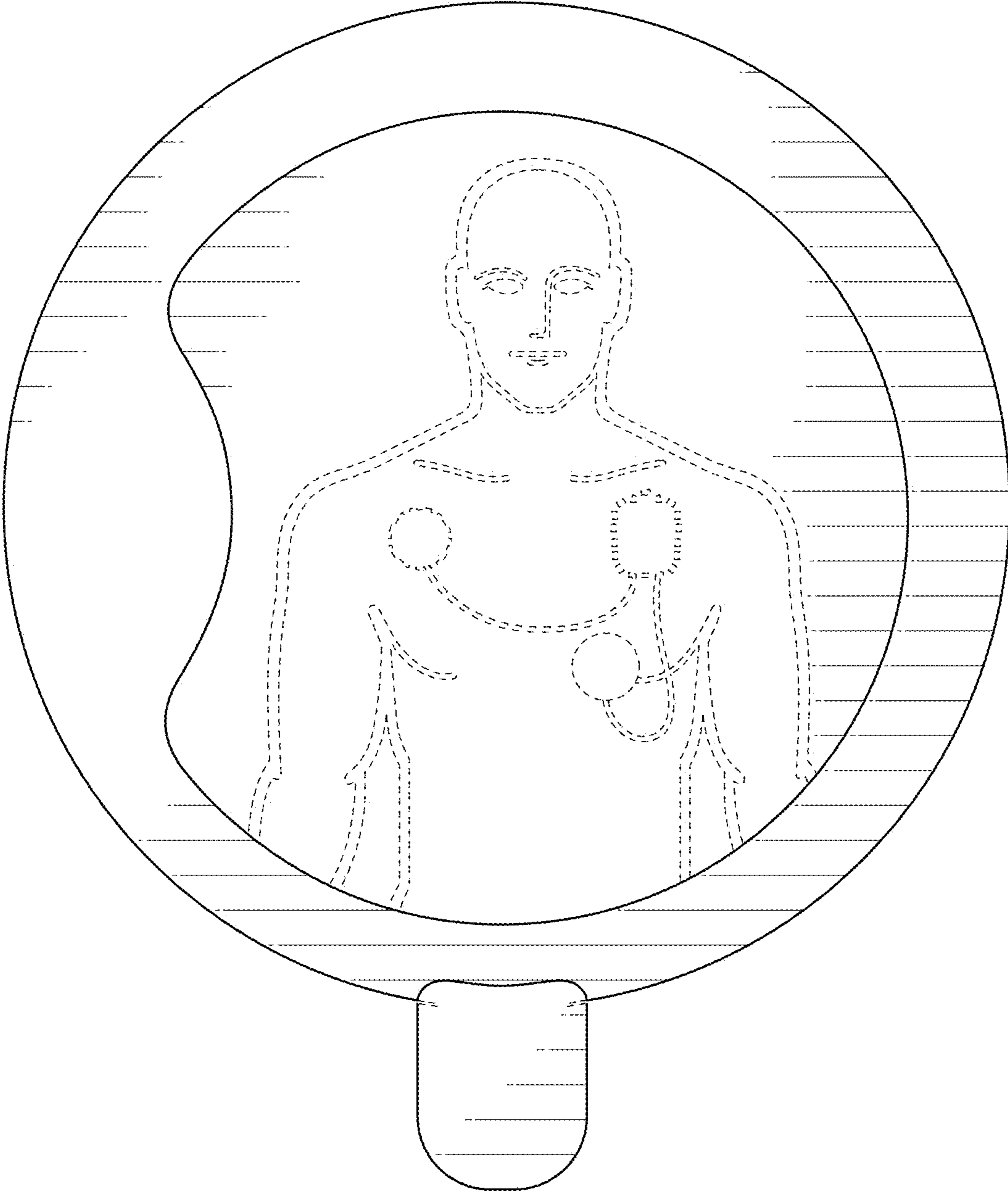


FIG. 2



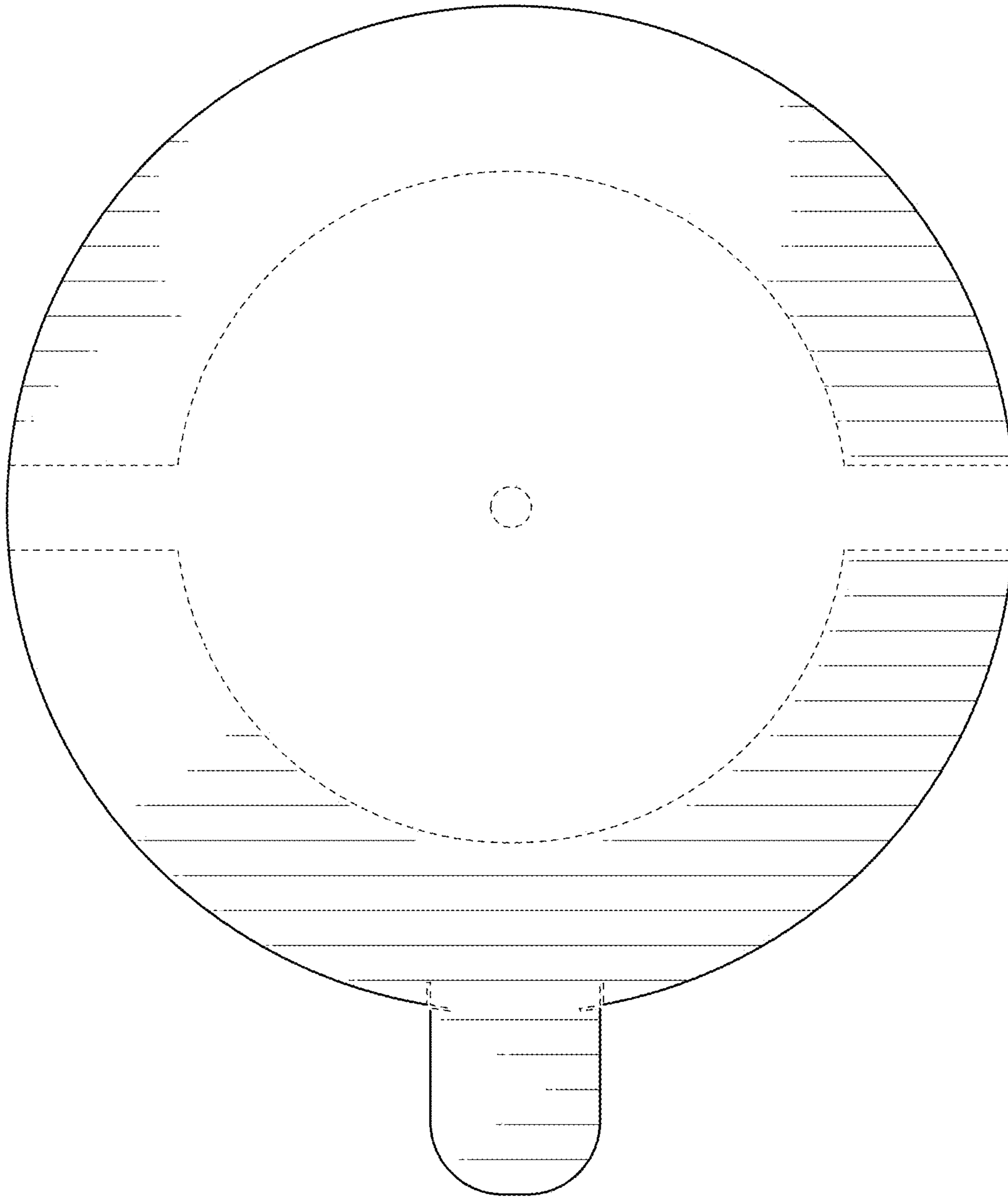


FIG. 3



FIG. 4



FIG. 5

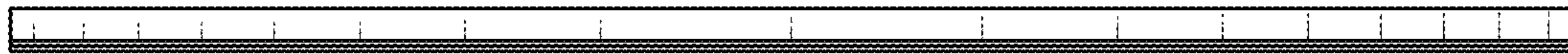


FIG. 6

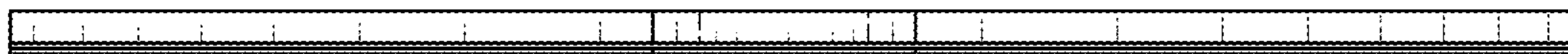


FIG. 7

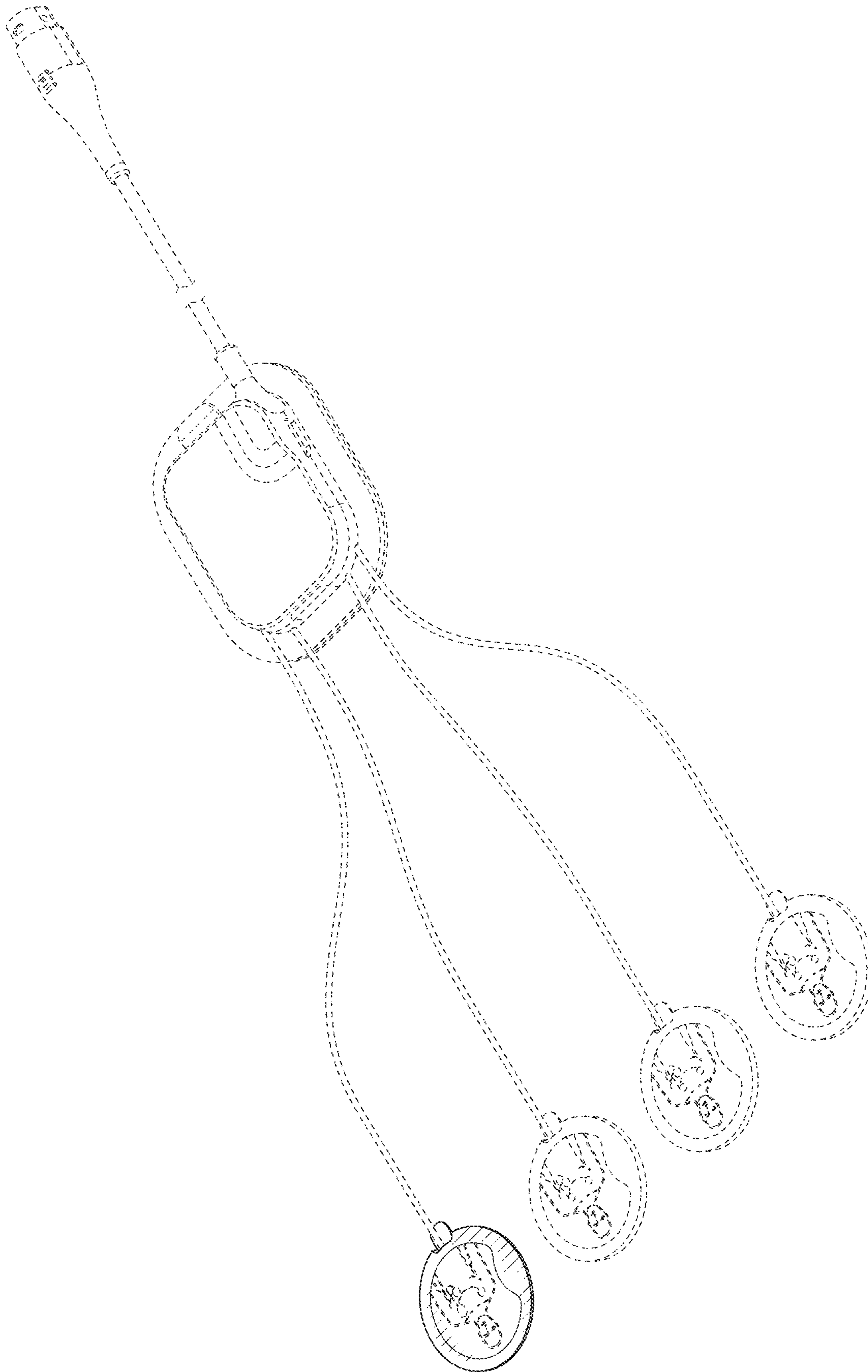


FIG. 8