



US00D931467S

(12) **United States Design Patent** (10) **Patent No.:** **US D931,467 S**
Golda et al. (45) **Date of Patent:** **** Sep. 21, 2021**

(54) **HEALTH MONITORING APPARATUS**

(71) Applicant: **RDS**, Strasbourg (FR)

(72) Inventors: **George Stefan Golda**, El Granda, CA (US); **Sam Eletr**, Paris (FR); **Bruce O'Neil**, Greenbrae, CA (US); **Juan Carlos Beltran**, Redwood City, CA (US); **Robert Charles Gardner**, Atherton, CA (US)

(73) Assignee: **RDS**, Strasbourg (FR)

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

(21) Appl. No.: **29/693,708**

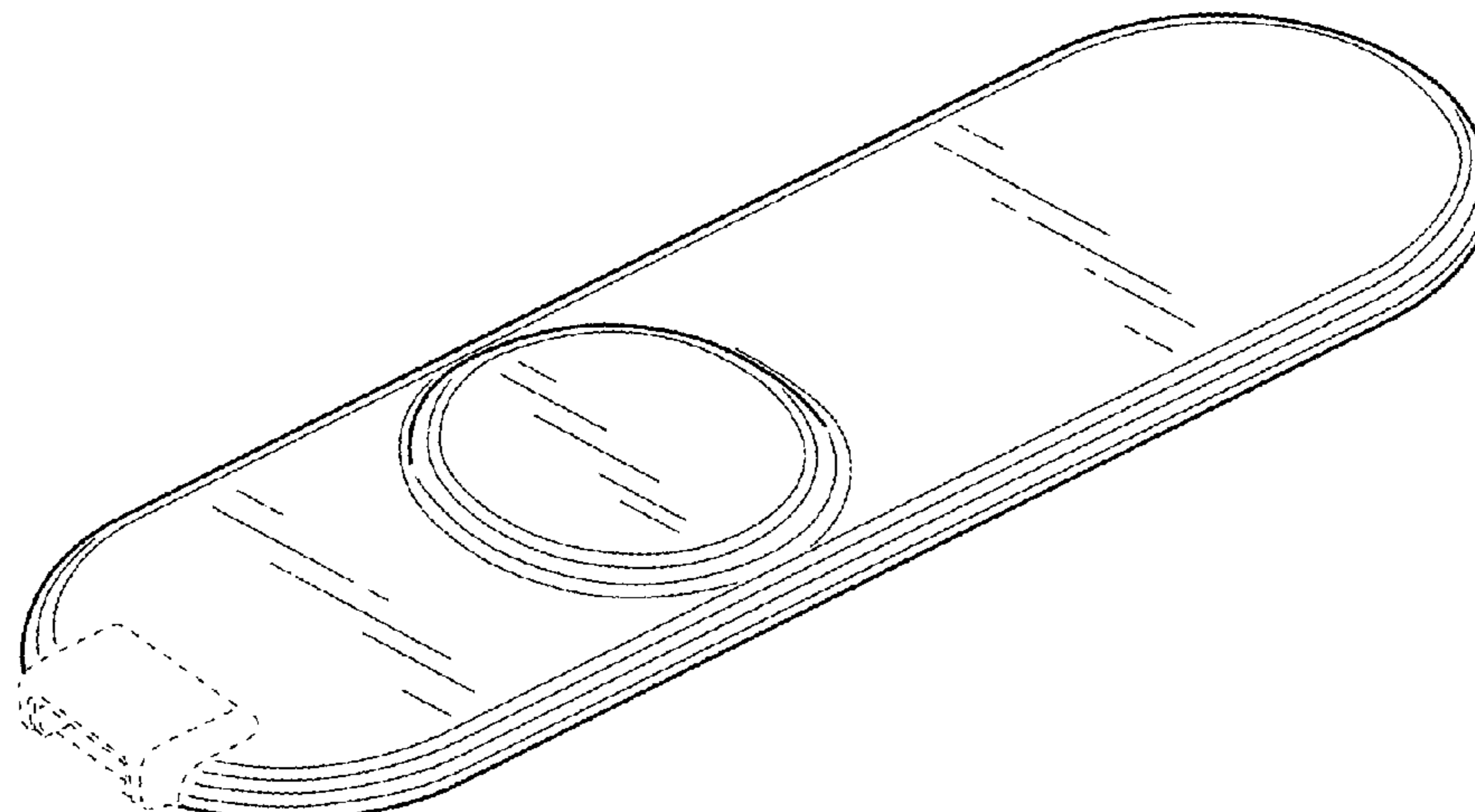
(22) Filed: **Jun. 4, 2019**

Related U.S. Application Data

(60) Division of application No. 29/634,630, filed on Jan. 23, 2018, now Pat. No. Des. 850,626, which is a continuation-in-part of application No. 13/837,748, filed on Mar. 15, 2013, now Pat. No. 10,413,251, application No. 29/693,708, which is a continuation of application No. 13/837,748, filed on Mar. 15, 2013, now Pat. No. 10,413,251, said application No. 29/634,630 is a continuation-in-part of application No. 14/565,413, filed on Dec. 9, 2014, said application No. 29/634,630 is a continuation-in-part of application No. 14/565,414, filed on Dec. 9, 2014, now Pat. No. 10,080,527, said application No. 29/634,630 is a continuation-in-part of application No. 14/565,415, filed on Dec. 9, 2014, said application No. 29/634,630 is a continuation-in-part of application No. 15/728,215, filed on Oct. 9, 2017, which is a continuation of application No. 14/565,412, filed on Dec. 9, 2014, now Pat. No. 9,782,132, which is a continuation of application No. PCT/US2013/063748, filed on Oct. 7, 2013, said application No. 14/565,413 is a continuation of application No. PCT/US2013/063748, filed on Oct. 7, 2013, said application No. 14/565,414 is a continuation of application No. PCT/US2013/063748, filed on Oct. 7, 2013, said application No. 14/565,415 is a continuation of application No. PCT/US2013/063748, filed on Oct. 7, 2013, said application No. 29/634,630 is a continuation-in-part of application No. 13/837,748, filed on Mar. 15, 2013, now Pat. No. 10,413,251.

(51) **LOC (13) Cl.** **24-01**
(52) **U.S. Cl.**
USPC **D24/186**
(58) **Field of Classification Search**
USPC D24/107, 167-169, 186, 187, 321;
D10/70, 98; D14/344
CPC A61B 5/0402; A61B 5/0404; A61B 5/021;
A61B 5/024; A61B 5/02405; A61B
5/02438; A61B 5/681; A61B 2560/0247;
A61B 2560/0462
See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS
4,221,223 A 9/1980 Linden
4,230,127 A 10/1980 Larson



US D931,467 S

4,295,472 A	10/1981	Adams	8,473,039 B2	6/2013	Michelson et al.
4,360,030 A	11/1982	Citron et al.	8,473,047 B2	6/2013	Chakravarthy et al.
4,412,546 A	11/1983	Barthels	8,538,503 B2	9/2013	Kumar et al.
4,583,190 A	4/1986	Salb	8,554,311 B2	10/2013	Warmer et al.
4,674,511 A	6/1987	Cartmell	8,560,046 B2	10/2013	Kumar et al.
4,869,254 A	9/1989	Stone et al.	8,577,431 B2	11/2013	Lamego et al.
4,934,372 A	6/1990	Corenman et al.	8,585,605 B2	11/2013	Sola I Caros et al.
4,938,228 A	7/1990	Righter et al.	8,591,430 B2	11/2013	Amurthur et al.
5,184,620 A	2/1993	Cudahy et al.	D701,964 S *	4/2014	Yoneta D24/187
5,224,486 A	7/1993	Lerman et al.	8,688,190 B2	4/2014	Libbus et al.
5,261,401 A	11/1993	Baker et al.	8,718,752 B2	5/2014	Libbus et al.
5,265,579 A	11/1993	Ferrari	8,731,649 B2	5/2014	Lisogurski
5,307,818 A	5/1994	Segalowitz	8,821,397 B2	9/2014	Al-Ali et al.
5,372,125 A	12/1994	Lyons	D738,757 S *	9/2015	Gross D10/57
5,448,991 A	9/1995	Polson	D744,109 S *	11/2015	Yoneta D24/186
5,465,715 A	11/1995	Lyons	D744,110 S *	11/2015	Kubo D24/186
5,465,727 A	11/1995	Reinhold	9,241,643 B2	1/2016	Lisogurski
5,511,553 A	4/1996	Segalowitz et al.	D760,903 S *	7/2016	Lin D24/165
5,549,116 A	8/1996	Mauer	D787,066 S *	5/2017	Kim D24/186
5,632,272 A	5/1997	Diab et al.	9,636,057 B2	5/2017	Scheuing et al.
5,673,692 A	10/1997	Schulze et al.	9,642,565 B2	5/2017	Gonopolskiy et al.
5,730,143 A	3/1998	Schwarzberg	9,717,425 B2	8/2017	Kiani et al.
5,931,791 A	8/1999	Saltzstein et al.	D800,313 S *	10/2017	Chang D24/167
6,032,060 A	2/2000	Carim et al.	9,782,132 B2	10/2017	Golda et al.
6,041,247 A	3/2000	Weckstrom	D810,944 S *	2/2018	Goolkasian D24/167
6,088,607 A	7/2000	Diab et al.	D812,229 S *	3/2018	Al-Siddiq D24/167
6,122,535 A	9/2000	Kaestle et al.	D850,626 S *	6/2019	Gardner D24/186
6,263,222 B1	7/2001	Diab et al.	D851,253 S *	6/2019	Goolkasian D24/167
6,327,487 B1	12/2001	Stratbucker	D868,974 S *	12/2019	Albert D24/167
6,385,473 B1	5/2002	Haines et al.	2002/0038082 A1	3/2002	Chin
6,453,186 B1	9/2002	Lovejoy et al.	2003/0055478 A1	3/2003	Lyster
6,525,386 B1	2/2003	Mills	2003/0073916 A1	4/2003	Yonce
6,569,095 B2	5/2003	Eggers	2003/0149349 A1	8/2003	Jensen
6,665,385 B2	12/2003	Rogers et al.	2003/0176795 A1	9/2003	Harris et al.
6,694,177 B2	2/2004	Eggers et al.	2004/0010201 A1	1/2004	Korzinov et al.
6,699,194 B1	3/2004	Diab et al.	2004/0015091 A1	1/2004	Greenwald et al.
6,725,074 B1	4/2004	Kaestle	2004/0039419 A1	2/2004	Stickney et al.
6,801,137 B2	10/2004	Eggers	2004/0039420 A1	2/2004	Jayne et al.
6,940,403 B2	9/2005	Kail, IV	2004/0042581 A1	3/2004	Okerlund
7,027,858 B2	4/2006	Cao et al.	2004/0146149 A1	7/2004	Rogers et al.
7,099,715 B2	8/2006	Korzinov et al.	2004/0260189 A1	12/2004	Eggers et al.
7,130,396 B2	10/2006	Rogers et al.	2005/0096557 A1	5/2005	Vosburgh
7,194,300 B2	3/2007	Korzinov	2005/0187446 A1	8/2005	Nordstrom
7,212,850 B2	5/2007	Prystowsky	2005/0261559 A1	11/2005	Mumford
7,215,984 B2	5/2007	Diab et al.	2005/0288726 A1	12/2005	Gollasch
7,257,438 B2	8/2007	Kinast	2006/0167515 A1	7/2006	Stickney et al.
7,341,559 B2	3/2008	Schulz et al.	2006/0224072 A1	10/2006	Shennib
7,412,282 B2	8/2008	Houben	2007/0070800 A1	3/2007	Virag et al.
7,502,643 B2	3/2009	Farrington et al.	2007/0103296 A1	5/2007	Paessel et al.
7,553,166 B2	6/2009	Gobron	2007/0106136 A1	5/2007	Sterling et al.
7,587,237 B2	9/2009	Korzinov et al.	2007/0129642 A1	6/2007	Korzinov
7,668,588 B2	2/2010	Kovacs	2007/0130657 A1	6/2007	Rogers et al.
7,729,753 B2	6/2010	Kremlivsky et al.	2007/0156054 A1	7/2007	Korzinov et al.
7,831,301 B2	11/2010	Webb et al.	2007/0191723 A1	8/2007	Prystowsky et al.
7,881,765 B2	2/2011	Mertz et al.	2007/0191728 A1	8/2007	Shennib
D634,431 S	3/2011	Severe et al.	2007/0255156 A1	11/2007	Mertz et al.
7,904,133 B2	3/2011	Gehman et al.	2007/0293776 A1	12/2007	Korzinov et al.
7,907,996 B2	3/2011	Prystowsky et al.	2008/0061846 A1	3/2008	Kase et al.
7,941,207 B2	5/2011	Korzinov	2008/0139953 A1	6/2008	Baker et al.
7,962,202 B2	6/2011	Bhunia	2008/0288026 A1	11/2008	Cross
8,116,841 B2	2/2012	Bly et al.	2008/0300641 A1	12/2008	Brunekreeft et al.
8,145,287 B2	3/2012	Diab et al.	2009/0054742 A1	2/2009	Kaminska
8,150,502 B2	4/2012	Kumar et al.	2009/0076340 A1	3/2009	Libbus et al.
8,160,682 B2	4/2012	Kumar et al.	2009/0076341 A1	3/2009	James et al.
D659,836 S	5/2012	Bensch et al.	2009/0076342 A1	3/2009	Amurthur et al.
8,200,319 B2	6/2012	Pu et al.	2009/0076344 A1	3/2009	Libbus et al.
8,200,320 B2	6/2012	Kovacs	2009/0076345 A1	3/2009	Manicka et al.
8,203,704 B2	6/2012	Merritt et al.	2009/0076346 A1	3/2009	James et al.
8,219,198 B2	7/2012	Gollasch et al.	2009/0076349 A1	3/2009	Libbus et al.
8,249,686 B2	8/2012	Libbus et al.	2009/0076350 A1	3/2009	Bly et al.
8,271,072 B2	9/2012	Houben et al.	2009/0076363 A1	3/2009	Bly et al.
RE43,767 E	10/2012	Eggers et al.	2009/0076364 A1	3/2009	Libbus et al.
8,285,356 B2	10/2012	Bly et al.	2009/0076397 A1	3/2009	Libbus et al.
8,290,129 B2	10/2012	Rogers et al.	2009/0076405 A1	3/2009	Amurthur et al.
8,290,574 B2	10/2012	Field et al.	2009/0076410 A1	3/2009	Libbus et al.
8,301,236 B2	10/2012	Baumann et al.	2009/0076559 A1	3/2009	Libbus et al.
8,374,686 B2	2/2013	Ghanem	2009/0105602 A1	4/2009	Gehman et al.
8,428,682 B1	4/2013	Rood et al.	2009/0234410 A1	9/2009	Libbus et al.
8,460,189 B2	6/2013	Libbus et al.	2009/0290279 A1	11/2009	Rodriguez et al.

2010/0026995 A1	2/2010	Merritt et al.	2013/0324855 A1	12/2013	Lisogurski
2010/0030039 A1	2/2010	Lamego	2013/0331665 A1	12/2013	Libbus et al.
2010/0054138 A1	3/2010	Gips et al.	2013/0338448 A1	12/2013	Libbus et al.
2010/0134241 A1	6/2010	Gips et al.	2013/0338460 A1	12/2013	He et al.
2010/0179391 A1	7/2010	Quintanar et al.	2014/0038147 A1	2/2014	Morrow
2010/0191509 A1	7/2010	Li et al.	2014/0066732 A1	3/2014	Addison et al.
2010/0198044 A1	8/2010	Gehman et al.	2014/0066783 A1	3/2014	Kiani et al.
2010/0204586 A1	8/2010	Pu et al.	2014/0081152 A1	3/2014	Clinton
2010/0204599 A1	8/2010	Pu et al.	2014/0091926 A1	4/2014	Gips et al.
2010/0249541 A1	9/2010	Geva et al.	2014/0100432 A1	4/2014	Golda et al.
2010/0262430 A1	10/2010	Gips et al.	2014/0206976 A1	7/2014	Thompson
2010/0268103 A1	10/2010	Mcnamara et al.	2015/0087948 A1	3/2015	Bishay et al.
2010/0286495 A1	11/2010	McGonigle et al.	2015/0087951 A1	3/2015	Felix et al.
2010/0286532 A1	11/2010	Farrington et al.	2015/0094551 A1	4/2015	Frix et al.
2010/0298655 A1	11/2010	McCombie	2015/0094552 A1	4/2015	Golda et al.
2010/0298656 A1	11/2010	McCombie	2015/0148622 A1	5/2015	Moyer et al.
2010/0312188 A1	12/2010	Robertson	2015/0148637 A1	5/2015	Golda et al.
2010/0317942 A1	12/2010	Cinbis et al.	2015/0148691 A1	5/2015	Moyer et al.
2010/0317947 A1	12/2010	Cinbis et al.	2015/0335288 A1	11/2015	Toth et al.
2010/0318146 A1	12/2010	Cinbis et al.	2015/0351690 A1	12/2015	Toth et al.
2010/0324389 A1	12/2010	Moon et al.	2016/0302674 A1	10/2016	Moyer et al.
2011/0021897 A1	1/2011	Webb et al.			
2011/0066039 A1	3/2011	Banet et al.			
2011/0066049 A1	3/2011	Matsumoto			
2011/0098933 A1	4/2011	Ochs			
2011/0105860 A1	5/2011	Houben et al.	CN	2785556 Y	6/2006
2011/0105926 A1	5/2011	Kornet	CN	101822533 A	9/2010
2011/0124979 A1	5/2011	Heneghan	CN	201641985 U	11/2010
2011/0125040 A1	5/2011	Crawford et al.	CN	101984743 A	3/2011
2011/0144470 A1	6/2011	Mazar et al.	CN	202288274 U	7/2012
2011/0160604 A1	6/2011	Istvan et al.	EP	0581073 A2	2/1994
2011/0166434 A1	7/2011	Gargiulo	EP	2438851 A2	4/2012
2011/0166468 A1	7/2011	Prystowsky et al.	JP	H05123305 A	5/1993
2011/0190598 A1	8/2011	Shusterman	JP	H07213630 A	8/1995
2011/0208076 A1	8/2011	Fong et al.	JP	H09224917 A	9/1997
2011/0208078 A1	8/2011	Cho et al.	JP	2001078974 A	3/2001
2011/0263994 A1	10/2011	Burns	JP	2002125944 A	5/2002
2011/0270049 A1	11/2011	Katra et al.	JP	2002263075 A	9/2002
2011/0270112 A1	11/2011	Manera et al.	JP	2004016248 A	1/2004
2011/0279963 A1	11/2011	Kumar	JP	2006000481 A	1/2006
2011/0301445 A9	12/2011	Webb et al.	JP	2006158813 A	6/2006
2012/0029306 A1	2/2012	Paquet	JP	2007244531 A	9/2007
2012/0029320 A1	2/2012	Watson et al.	JP	20120187404 A	10/2012
2012/0035490 A1	2/2012	Shen et al.	WO	W09401039 A1	1/1994
2012/0035494 A1	2/2012	Chakravarthy et al.	WO	W09427494 A1	12/1994
2012/0071744 A1	3/2012	Euliano et al.	WO	W00045696 A1	8/2000
2012/0083673 A1	4/2012	Al-Ali et al.	WO	W00059374 A1	10/2000
2012/0101396 A1	4/2012	Solosko et al.	WO	W02001085019 A2	11/2001
2012/0108917 A1	5/2012	Libbus et al.	WO	W02001093758 A1	12/2001
2012/0108920 A1	5/2012	Bly et al.	WO	W00200094 A2	1/2002
2012/0110226 A1	5/2012	Vlach et al.	WO	W02002085201 A1	10/2002
2012/0110228 A1	5/2012	Vlach et al.	WO	W02002086792 A2	10/2002
2012/0136226 A1	5/2012	Wilke	WO	W02002086835 A1	10/2002
2012/0176599 A1	7/2012	Leung	WO	W02002086837 A1	10/2002
2012/0197150 A1	8/2012	Cao et al.	WO	W02003077752 A1	9/2003
2012/0203077 A1	8/2012	He et al.	WO	W02005079429 A2	1/2005
2012/0204068 A1	8/2012	Ye et al.	WO	W02005060829 A1	7/2005
2012/0226129 A1	9/2012	Callahan et al.	WO	W02005072237 A2	8/2005
2012/0232369 A1	9/2012	Kim et al.	WO	W02006014806 A2	2/2006
2012/0245951 A1	9/2012	Gips et al.	WO	W02006044919 A2	4/2006
2012/0277549 A1	11/2012	Libbus et al.	WO	W02006124788 A2	11/2006
2012/0284003 A1	11/2012	Gosh	WO	W02006124788 A2	11/2006
2012/0289839 A1	11/2012	Takenoshita	WO	W02009036321 A1	3/2009
2012/0330126 A1	12/2012	Hoppe	WO	W02009036327 A1	3/2009
2013/0012938 A1	1/2013	Asirvatham	WO	2009112972 A2	9/2009
2013/0085347 A1	4/2013	Manicka et al.	WO	W02010093900 A2	8/2010
2013/0096395 A1	4/2013	Katra et al.	WO	W02010104952 A2	9/2010
2013/0116520 A1	5/2013	Roham	WO	W02010107913 A2	9/2010
2013/0116585 A1	5/2013	Bouguerra	WO	W02011074004 A2	6/2011
2013/0144130 A1	6/2013	Russell et al.	WO	W02012104658 A2	8/2012
2013/0172724 A1	7/2013	Aziz et al.	WO	W02012129498 A1	9/2012
2013/0225938 A1	8/2013	Vlach	WO	W02012150563 A1	11/2012
2013/0225967 A1	8/2013	Esposito			
2013/0245388 A1	9/2013	Rafferty et al.			
2013/0245394 A1	9/2013	Brown et al.			
2013/0253285 A1	9/2013	Bly et al.			
2013/0296660 A1	11/2013	Tsien			
2013/0296823 A1	11/2013	Melker			
2013/0324812 A1	12/2013	Brainard			

FOREIGN PATENT DOCUMENTS

CN	2785556 Y	6/2006
CN	101822533 A	9/2010
CN	201641985 U	11/2010
CN	101984743 A	3/2011
CN	202288274 U	7/2012
EP	0581073 A2	2/1994
EP	2438851 A2	4/2012
JP	H05123305 A	5/1993
JP	H07213630 A	8/1995
JP	H09224917 A	9/1997
JP	2001078974 A	3/2001
JP	2002125944 A	5/2002
JP	2002263075 A	9/2002
JP	2004016248 A	1/2004
JP	2006000481 A	1/2006
JP	2006158813 A	6/2006
JP	2007244531 A	9/2007
JP	20120187404 A	10/2012
WO	W09401039 A1	1/1994
WO	W09427494 A1	12/1994
WO	W00045696 A1	8/2000
WO	W00059374 A1	10/2000
WO	W02001085019 A2	11/2001
WO	W02001093758 A1	12/2001
WO	W00200094 A2	1/2002
WO	W02002085201 A1	10/2002
WO	W02002086792 A2	10/2002
WO	W02002086835 A1	10/2002
WO	W02002086837 A1	10/2002
WO	W02003077752 A1	9/2003
WO	W02005079429 A2	1/2005
WO	W02005060829 A1	7/2005
WO	W02005072237 A2	8/2005
WO	W02006014806 A2	2/2006
WO	W02006044919 A2	4/2006
WO	W02006124788 A2	11/2006
WO	W02006124788 A2	11/2006
WO	W02009036321 A1	3/2009
WO	W02009036327 A1	3/2009
WO	2009112972 A2	9/2009
WO	W02010093900 A2	8/2010
WO	W02010104952 A2	9/2010
WO	W02010107913 A2	9/2010
WO	W02011074004 A2	6/2011
WO	W02012104658 A2	8/2012
WO	W02012129498 A1	9/2012
WO	W02012150563 A1	11/2012

OTHER PUBLICATIONS

Extended European Search Report including the Supplementary European Search Report (SESR) for Application No. EP13843561.5 issued by the European Patent Office, Munich, Germany dated Apr. 29, 2016.

Transmittal of International Preliminary Report of Patentability and International Preliminary Report on Patentability for Application No. PCT/US2016/039374 issued by the International Bureau of WIPO, Geneva, Switzerland dated Jan. 4, 2018 which includes: The International Preliminary Report on Patentability dated Dec. 26, 2017 with Written Opinion of the International Searching Authority for International Application No. PCT/US2016/039374 dated Oct. 28, 2016 issued by the United States Patent Office, Alexandria, Virginia, 8 pages.

Extended European Search Report including the Supplementary European Search Report for Application No. EP15740972 issued by the European Patent Office, Munich, Germany dated Aug. 29, 2017. International Search Report and Written Opinion of the International Searching Authority. International Application No. PCT/US2013/063748 issued by the United State Patent Office, dated Feb. 27, 2014, 15 pages, Alexandria Virginia.

Timmerman, Luke, Xconomy, Inc., “UW Spinout Cardiac Insight Wins FDA OK for Heartbeat Monitor”, published Jun. 6, 2013; website accessed Oct. 27, 2013, <http://www.xconomy.com/seattle/2013/06/06/uw-spinout-cardiac-insight-wins-fda-ok-for-heartbeat-monitor/>, Xconomy Inc., Cambridge, Massachusetts.

CardioNet, Inc., “CardioNet, Inc. Announces Launch of MCOTos 2:1 Device”, published Jun. 19, 2013; website accessed Oct. 27, 2013, <https://www.cardionet.com/index.htm>, BioTelemetry, Inc., Conshohocken, Pennsylvania.

Heart Check, “The HeartCheck Pen, a Handheld ECG with SMART Monitoring”, website accessed Oct. 27, 2013, <http://heartcheckpen.com/>, HeartCheckPEN.com, TAW Global, LLC, Portage, Michigan; CardioComm Solutions Inc., Toronto, ON, and Victoria, BC.

Corventis, Inc., “Nuvant Mobile Cardiac Telemetry”, Copyright 2009-2013; website accessed Oct. 27, 2013, <http://corventis.com/>, Corventis, San Jose, California.

International Preliminary Report on Patentability, issued by the International Bureau of WIPO, Geneva, Switzerland, dated Apr. 16, 2015, which includes: The International Preliminary Report on Patentability dated Apr. 7, 2015 with Written Opinion of the International Searching Authority for International Application No. PCT/US2013/063748, dated Feb. 27, 2014 issued by the United States Patent Office, Alexandria, Virginia; totaling 7 pages.

International Search Report and Written Opinion of the International Searching Authority. International Application No. PCT/US2015/13113 issued by the United State Patent Office, dated Jun. 29, 2015, 14 pages, Alexandria Virginia.

International Search Report and Written Opinion of the International Searching Authority. International Application No. PCT/

US2016/039374 issued by the United State Patent Office, dated Oct. 28, 2016, 14 pages, Alexandria Virginia.

International Preliminary Report of Patentability and International Preliminary Report on Patentability for Application No. PCT/US2016/039374 issued by the International Bureau of WIPO, Geneva, Switzerland dated Jan. 4, 2018 which includes: The International Preliminary Report on Patentability dated Dec. 26, 2017 with Written Opinion of the International Searching Authority for International Application No. PCT/US2016/039374 dated Oct. 28, 2016 issued by the United States Patent Office, Alexandria, Virginia, 8 pages.

* cited by examiner

Primary Examiner — Anhdao Doan

(74) *Attorney, Agent, or Firm* — Peter B. Scull; EIP US LLP

(57) **CLAIM**

The ornamental design for a health monitoring apparatus, as shown and described.

DESCRIPTION

FIG. 1 is a top isometric view of a health monitoring apparatus;

FIG. 2 is a bottom isometric view thereof;

FIG. 3 is a first side view thereof;

FIG. 4 is a second side view thereof;

FIG. 5 is a front end view thereof;

FIG. 6 is a back end view thereof;

FIG. 7 is a top plan view thereof; and,

FIG. 8 is a bottom plan view thereof.

The broken lines immediately adjacent the shaded areas represent the bounds of the claim, while all other broken lines are directed to environment and are for illustrative purposes only. The broken lines form no part of the claimed design.

1 Claim, 3 Drawing Sheets

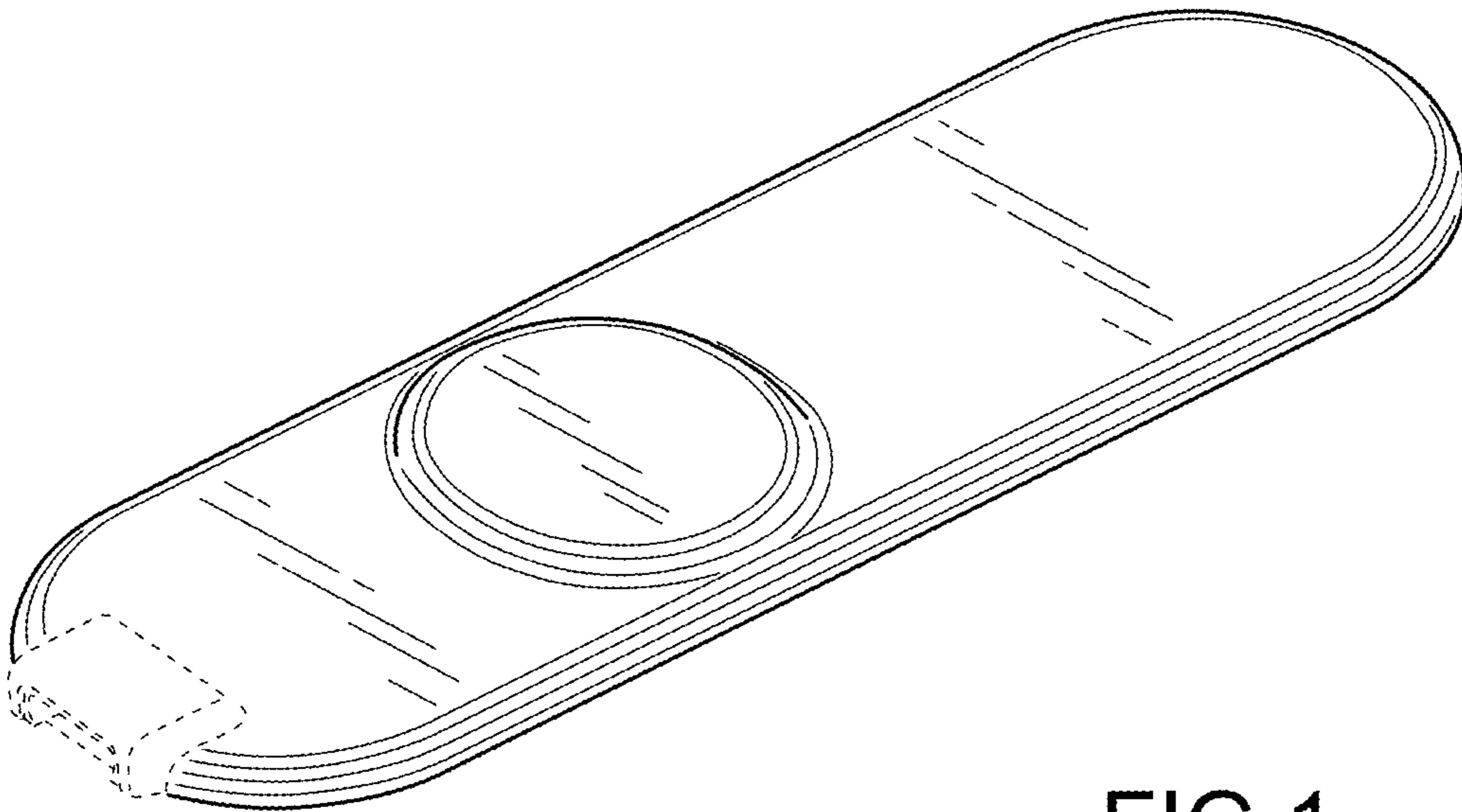


FIG.1

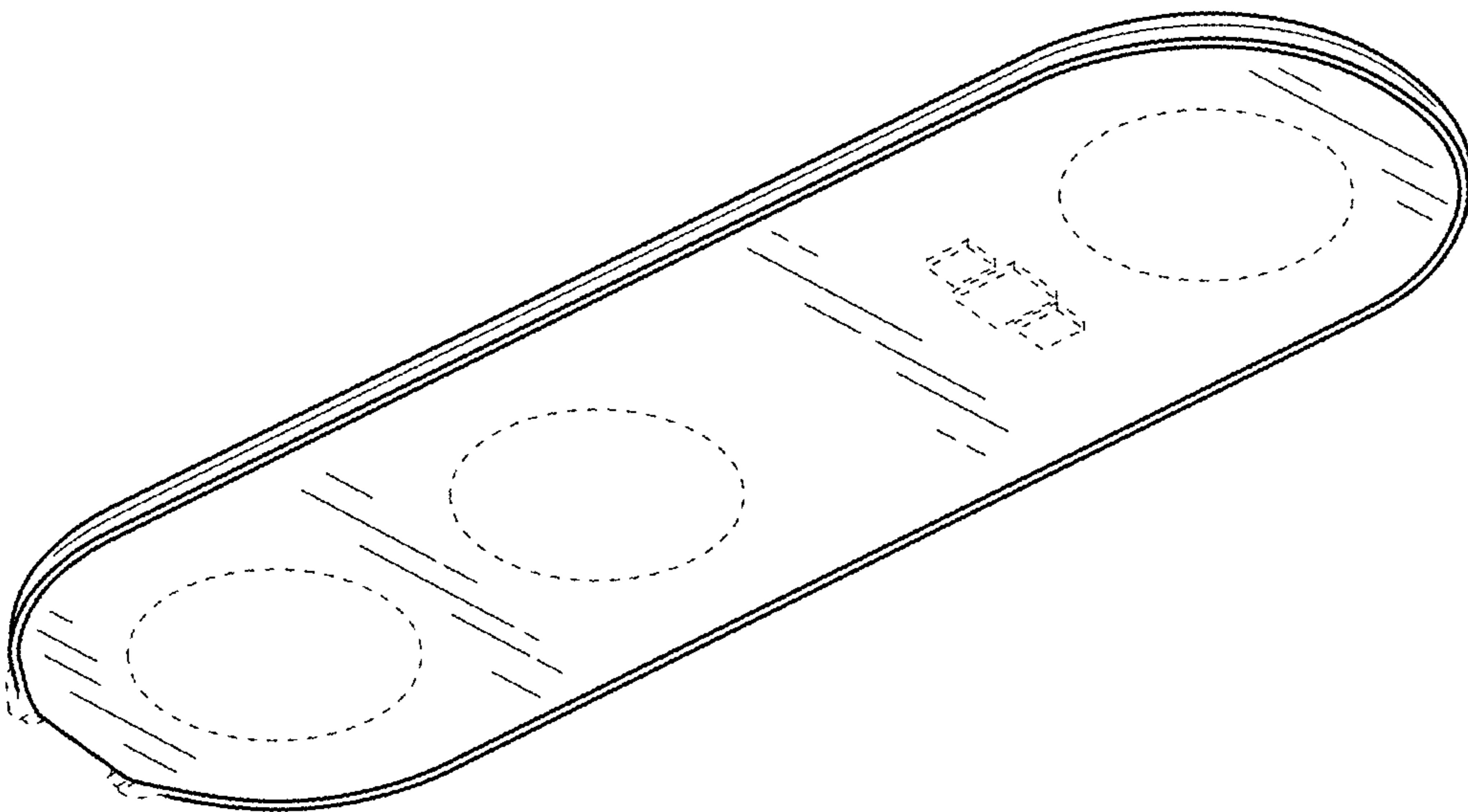


FIG.2



FIG.3

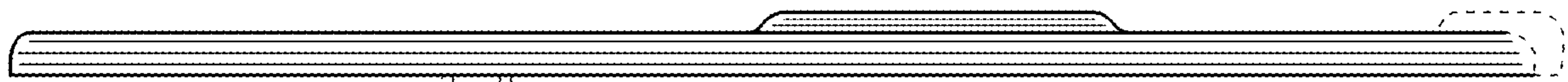


FIG.4

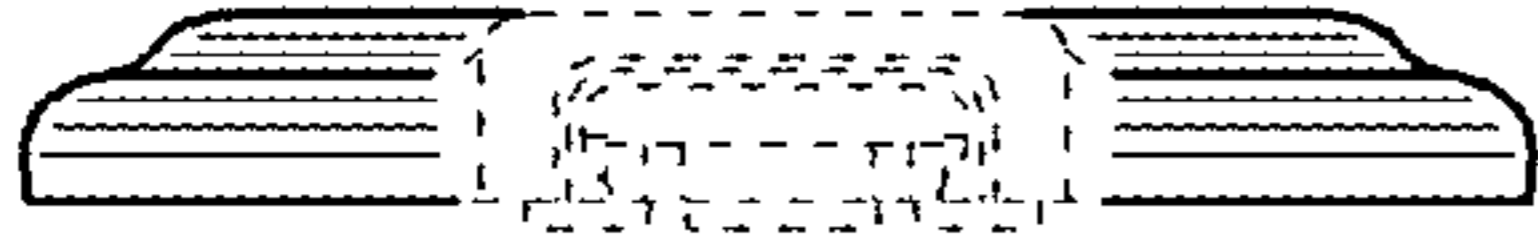


FIG. 5

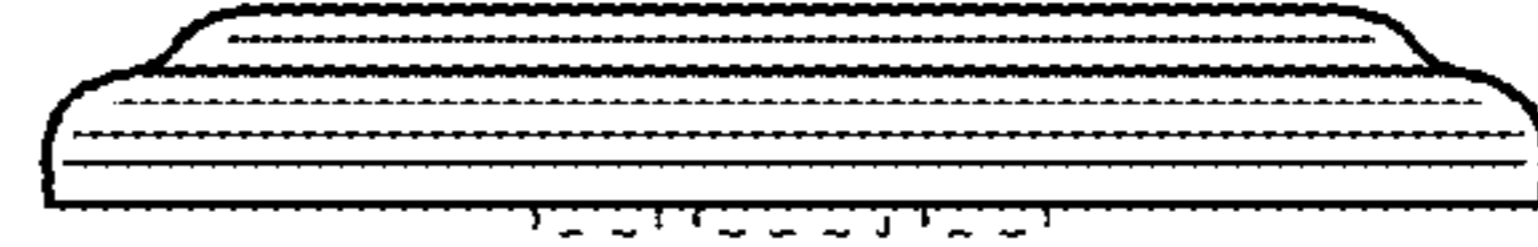


FIG. 6

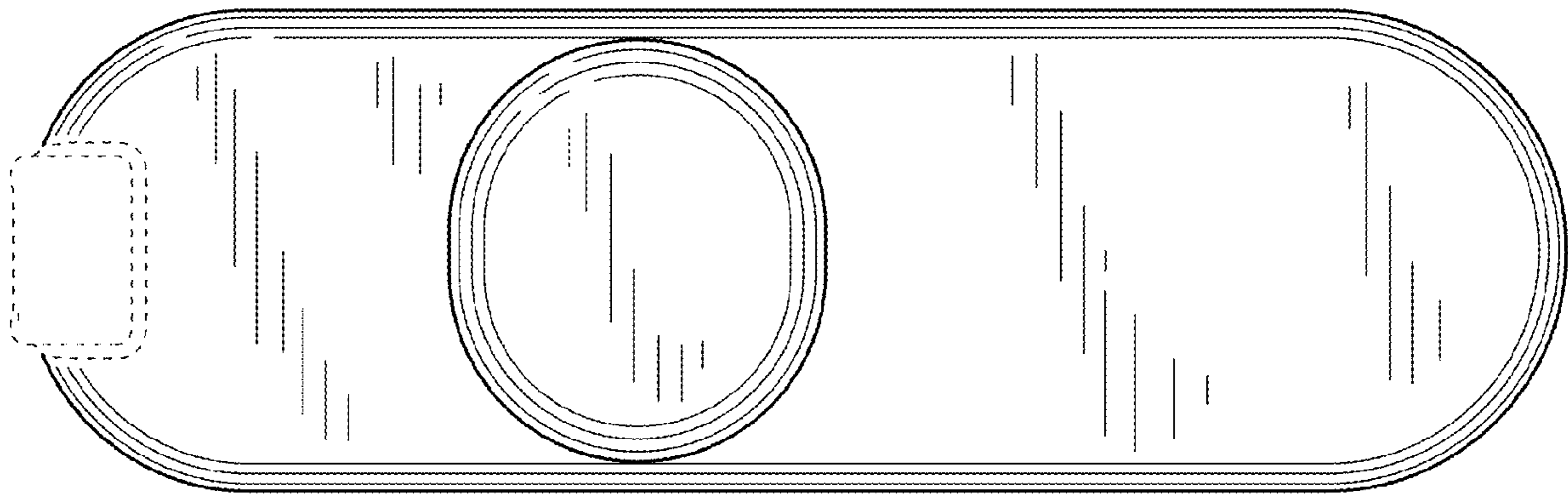


FIG. 7

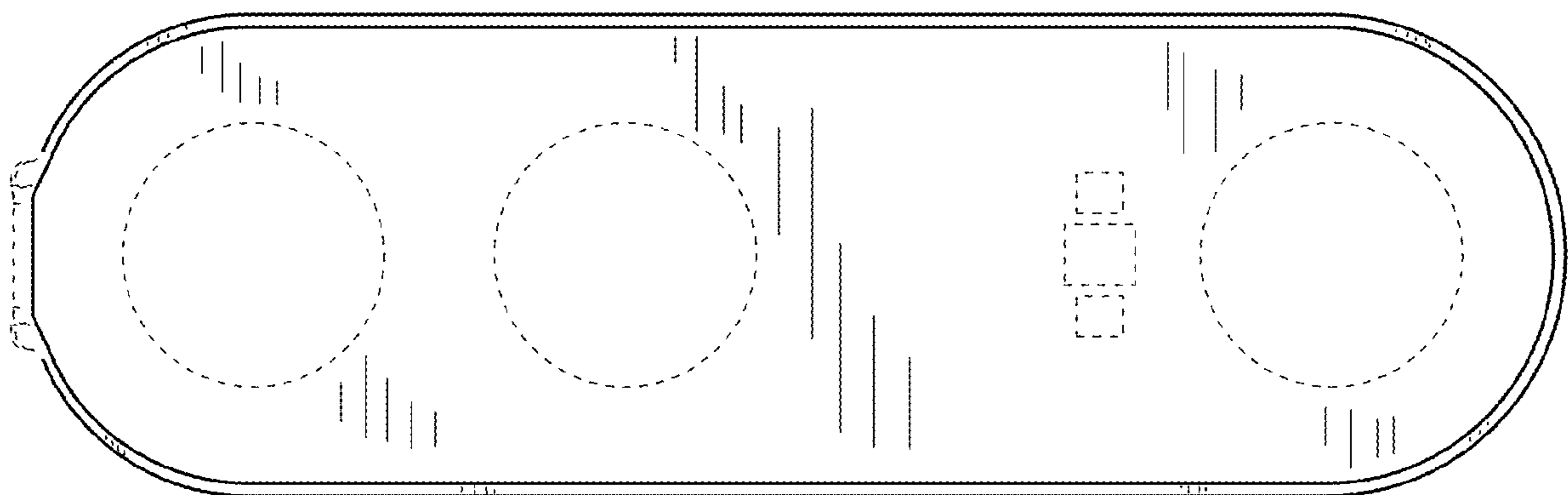


FIG. 8