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(12) **United States Design Patent** (10) **Patent No.:** **US D794,807 S**
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(54) **HEALTH MONITORING DEVICE WITH A DISPLAY**

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(56) **References Cited**

U.S. PATENT DOCUMENTS

3,832,994 A 9/1974 Bicher et al.
4,173,971 A 11/1979 Karz

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0 959 607 A2 11/1999
WO 01/93756 A2 12/2001

(Continued)

OTHER PUBLICATIONS

International Search Authority, International Search Report and the Written Opinion for International Application No. PCT/US2012/033554 dated Aug. 28, 2012 (15 pages).

(Continued)

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(57) **CLAIM**

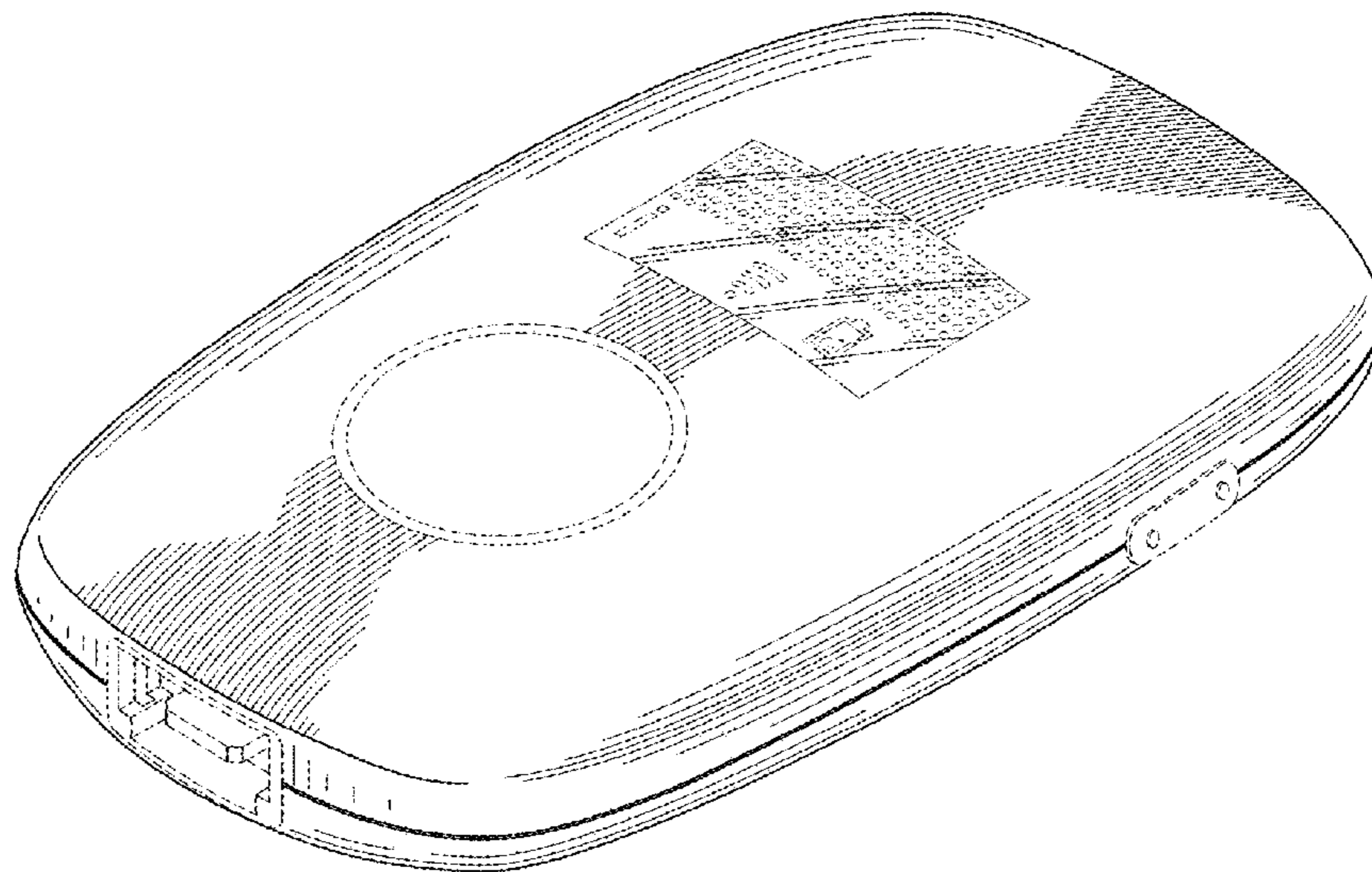
We claim the ornamental design for a health monitoring device with a display, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of the health monitoring device with a display of the claimed design; FIG. 2 is a front elevation view of the health monitoring device with a display shown in FIG. 1; FIG. 3 is a rear elevation view of the health monitoring device with a display shown in FIG. 1; FIG. 4 is a bottom plan view of the health monitoring device with a display shown in FIG. 1; FIG. 5 is a top plan view of the health monitoring device with a display shown in FIG. 1; FIG. 6 is a left side elevation view of the health monitoring device with a display shown in FIG. 1; and, FIG. 7 is a right side elevation view of the health monitoring device with a display shown in FIG. 1.

The broken lines shown in the figures represent portions of the health monitoring device that form no part of the claimed design. The display on the front surface of the claimed device is a phantom display, in that the display may appear similar in color and material as the surrounding material when none of the underlying lights or icons are lit. However, when one or more of the underlying lights or icons are lit, the light is visible on the display.

1 Claim, 7 Drawing Sheets



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 A61B 5/1118; A61B 5/157; A61B 5/002;
 A61B 5/01; A61B 5/411; A61B 5/742;
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 3/038

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,364,397 A	12/1982	Citron et al.	6,826,425 B2	11/2004	Bardy
4,635,646 A	1/1987	Gilles et al.	6,840,904 B2	1/2005	Goldberg
4,721,114 A	1/1988	DuFault et al.	6,856,832 B1	2/2005	Matsumura et al.
4,791,933 A	12/1988	Asai et al.	6,871,089 B2	3/2005	Korzinov et al.
4,883,064 A	11/1989	Olson et al.	6,897,788 B2	5/2005	Khair et al.
4,905,205 A	2/1990	Rialan	6,913,577 B2	7/2005	Bardy
4,920,489 A	4/1990	Hubelbank et al.	6,925,324 B2	8/2005	Shusterman
5,025,795 A	6/1991	Kunig	6,940,403 B2	9/2005	Kail, IV
5,058,597 A	10/1991	Onoda et al.	6,945,934 B2	9/2005	Bardy
5,080,105 A	1/1992	Thornton	6,957,107 B2	10/2005	Rogers et al.
5,090,418 A	2/1992	Squires et al.	6,980,112 B2	12/2005	Nee
5,226,431 A	7/1993	Bible et al.	6,987,965 B2	1/2006	Ng et al.
5,238,001 A	8/1993	Gallant et al.	7,002,468 B2	2/2006	Eveland et al.
5,309,920 A	5/1994	Gallant et al.	7,016,721 B2	3/2006	Lee et al.
5,365,935 A	11/1994	Righter et al.	7,058,444 B2	6/2006	Logan et al.
5,417,222 A	5/1995	Dempsey et al.	7,082,334 B2	7/2006	Boute et al.
5,501,229 A	3/1996	Selker et al.	7,092,751 B2	8/2006	Erkkila
5,502,688 A	3/1996	Recchione et al.	7,099,715 B2	8/2006	Korzinov et al.
5,544,661 A	8/1996	Davis et al.	7,117,037 B2	10/2006	Hiebert et al.
5,564,429 A	10/1996	Bornn et al.	7,120,485 B2	10/2006	Glass et al.
5,678,562 A	10/1997	Sellers	7,130,396 B2	10/2006	Rogers et al.
5,718,233 A	2/1998	Selker et al.	7,156,809 B2	1/2007	Quy
5,748,103 A	5/1998	Flach et al.	7,171,166 B2	1/2007	Ng et al.
5,782,773 A	7/1998	Kuo et al.	7,194,300 B2	3/2007	Korzinov
5,871,451 A	2/1999	Unger et al.	7,197,357 B2	3/2007	Istvan et al.
5,876,351 A	3/1999	Rohde	7,212,850 B2	5/2007	Prystowsky et al.
5,944,659 A	8/1999	Flach et al.	7,222,054 B2	5/2007	Geva
6,049,730 A	4/2000	Kristbjarnarson	D546,456 S *	7/2007	May D24/186
6,168,563 B1	1/2001	Brown	7,248,916 B2	7/2007	Bardy
6,213,942 B1	4/2001	Flach et al.	7,257,438 B2	8/2007	Kinast
6,225,901 B1	5/2001	Kail, IV	7,343,197 B2	3/2008	Shusterman
6,238,338 B1	5/2001	DeLuca et al.	7,382,247 B2	6/2008	Welch et al.
6,272,377 B1	8/2001	Sweeney et al.	7,403,808 B2	7/2008	Istvan et al.
6,280,380 B1	8/2001	Bardy	7,412,281 B2	8/2008	Shen et al.
6,366,871 B1	4/2002	Geva	7,433,731 B2	10/2008	Matsumura et al.
6,389,308 B1	5/2002	Shusterman	7,477,933 B2	1/2009	Ueyama
6,411,840 B1	6/2002	Bardy	7,509,160 B2	3/2009	Bischoff et al.
6,416,471 B1	7/2002	Kumar et al.	7,539,533 B2	5/2009	Tran
6,418,340 B1	7/2002	Conley et al.	7,542,878 B2	6/2009	Nanikashvili
6,441,747 B1	8/2002	Khair et al.	7,552,035 B2	6/2009	Cataltepe et al.
6,466,806 B1	10/2002	Geva et al.	7,558,623 B2	7/2009	Fischell et al.
6,471,087 B1	10/2002	Shusterman	7,580,755 B1	8/2009	Schwartz et al.
6,485,418 B2	11/2002	Yasushi et al.	7,587,237 B2	9/2009	Korzinov et al.
6,494,829 B1	12/2002	New, Jr. et al.	7,593,764 B2	9/2009	Kohls et al.
6,496,705 B1	12/2002	Ng et al.	7,596,405 B2	9/2009	Kurzweil et al.
6,496,731 B1	12/2002	Lovett	7,630,756 B2	12/2009	Linker
6,553,262 B1	4/2003	Lang et al.	7,654,965 B2	2/2010	Morganroth
6,569,095 B2	5/2003	Eggers	7,689,439 B2	3/2010	Parker
6,589,170 B1	7/2003	Flach et al.	7,702,382 B2	4/2010	Xue et al.
6,602,191 B2	8/2003	Quy	7,706,883 B1	4/2010	Sing
6,611,705 B2	8/2003	Hopman et al.	7,715,905 B2	5/2010	Kurzweil et al.
6,648,820 B1	11/2003	Sarel	7,729,753 B2	6/2010	Kremliovsky et al.
6,654,631 B1	11/2003	Sahai	7,734,335 B2	6/2010	Kontothanassis et al.
6,664,893 B1	12/2003	Eveland et al.	7,761,143 B2	7/2010	Matsumura et al.
6,665,385 B2	12/2003	Rogers et al.	D621,048 S	8/2010	Severe et al.
6,694,177 B2	2/2004	Eggers et al.	7,783,342 B2	8/2010	Syeda-Mahmood et al.
6,694,186 B2	2/2004	Bardy	7,801,591 B1	9/2010	Shusterman
6,704,595 B2	3/2004	Bardy	7,803,118 B2	9/2010	Reisfeld et al.
6,708,057 B2	3/2004	Morganroth	7,803,119 B2	9/2010	Reisfeld
6,773,396 B2	8/2004	Flach et al.	7,837,629 B2	11/2010	Bardy
6,801,137 B2	10/2004	Eggers	7,844,323 B2	11/2010	Fischell et al.
6,804,558 B2	10/2004	Haller et al.	7,860,557 B2	12/2010	Istvan et al.
			7,907,996 B2	3/2011	Prystowsky et al.
			7,912,537 B2	3/2011	Lee et al.
			7,933,642 B2	4/2011	Istvan et al.
			7,941,207 B2	5/2011	Korzinov
			7,979,111 B2	7/2011	Acquista
			7,996,075 B2	8/2011	Korzinov et al.
			7,996,187 B2	8/2011	Nanikashvili et al.
			8,005,531 B2	8/2011	Xue et al.
			8,046,060 B2	10/2011	Simms, Jr.
			RE42,934 E	11/2011	Thompson
			8,055,332 B2	11/2011	McCabe et al.
			8,064,990 B2	11/2011	Diem et al.
			8,073,536 B2	12/2011	Gunderson et al.
			8,121,673 B2	2/2012	Tran
			8,126,728 B2	2/2012	Dicks et al.
			8,126,729 B2	2/2012	Dicks et al.
			8,126,730 B2	2/2012	Dicks et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

8,126,732 B2	2/2012	Dicks et al.	2007/0130657 A1	6/2007	Rogers et al.
8,126,733 B2	2/2012	Dicks et al.	2007/0179357 A1	8/2007	Bardy
8,126,734 B2	2/2012	Dicks et al.	2007/0179376 A1	8/2007	Gerder
8,126,735 B2	2/2012	Dicks et al.	2007/0191723 A1	8/2007	Prystowsky
8,150,502 B2	4/2012	Kumar et al.	2007/0197878 A1	8/2007	Shklarski
8,160,682 B2	4/2012	Kumar et al.	2007/0208233 A1	9/2007	Kovacs
8,190,246 B2	5/2012	Belalcazar et al.	2007/0270665 A1	11/2007	Yang et al.
8,204,580 B2	6/2012	Kurzweil et al.	2007/0276270 A1	11/2007	Tran
8,224,430 B2	7/2012	Fischell et al.	2007/0279217 A1	12/2007	Venkatraman et al.
8,244,335 B2	8/2012	Kumar et al.	2007/0279239 A1	12/2007	Lachenit et al.
8,255,041 B2	8/2012	Istvan et al.	2007/0293776 A1	12/2007	Korzinov et al.
8,255,238 B2	8/2012	Powell et al.	2008/0004904 A1	1/2008	Tran
8,260,408 B2	9/2012	Ostrow	2008/0097550 A1	4/2008	Dicks et al.
8,290,129 B2	10/2012	Rogers et al.	2008/0097551 A1	4/2008	Dicks et al.
8,301,236 B2	10/2012	Baumann et al.	2008/0097552 A1	4/2008	Dicks et al.
8,301,252 B2	10/2012	Hatlestad et al.	2008/0097793 A1	4/2008	Dicks et al.
8,308,650 B2	11/2012	Bardy	2008/0097908 A1	4/2008	Dicks et al.
8,323,188 B2	12/2012	Tran	2008/0097909 A1	4/2008	Dicks et al.
8,326,407 B2	12/2012	Linker	2008/0097910 A1	4/2008	Dicks et al.
8,328,718 B2	12/2012	Tran	2008/0097911 A1	4/2008	Dicks et al.
8,352,018 B2	1/2013	Xue et al.	2008/0097912 A1	4/2008	Dicks et al.
8,391,962 B2	3/2013	Watanabe	2008/0097913 A1	4/2008	Dicks et al.
8,391,989 B2	3/2013	Hatlestad et al.	2008/0097914 A1	4/2008	Dicks et al.
8,396,542 B2	3/2013	Johnson et al.	2008/0097917 A1	4/2008	Dicks et al.
8,406,862 B2	3/2013	Hopenfeld	2008/0103370 A1	5/2008	Dicks et al.
8,425,414 B2	4/2013	Eveland	2008/0103554 A1	5/2008	Dicks et al.
8,425,415 B2	4/2013	Tran	2008/0103555 A1	5/2008	Dicks et al.
8,428,703 B2	4/2013	Hopenfeld	2008/0108907 A1	5/2008	Stahmann et al.
8,428,705 B2	4/2013	Kurzweil et al.	2008/0139894 A1	6/2008	Szydlo-Moore et al.
8,449,471 B2	5/2013	Tran	2008/0183502 A1	7/2008	Dicks et al.
8,478,389 B1	7/2013	Brockway et al.	2008/0215120 A1	9/2008	Dicks et al.
8,478,418 B2	7/2013	Fahey	2008/0215360 A1	9/2008	Dicks et al.
8,483,807 B2	7/2013	Kurzweil et al.	2008/0218376 A1	9/2008	Dicks et al.
8,509,882 B2	8/2013	Albert et al.	2008/0224852 A1	9/2008	Dicks et al.
D689,494 S *	9/2013	Widiaman D14/408	2008/0281215 A1	11/2008	Alhussiny
8,535,223 B2	9/2013	Corroy et al.	2008/0281215 A1	11/2008	Alhussiny
8,606,351 B2	12/2013	Wheeler	2009/0076344 A1	3/2009	Libbus et al.
8,620,418 B1	12/2013	Kuppuraj et al.	2009/0076345 A1	3/2009	Manicka et al.
8,652,038 B2	2/2014	Tran et al.	2009/0076350 A1	3/2009	Bly et al.
8,655,441 B2	2/2014	Fletcher et al.	2009/0076405 A1	3/2009	Amurthur et al.
8,657,742 B2	2/2014	Neumann	2009/0099469 A1	4/2009	Flores
D721,177 S *	1/2015	Ahlstrom D24/169	2009/0112769 A1	4/2009	Dicks et al.
D767,770 S *	9/2016	Purfey D24/186	2009/0115628 A1	4/2009	Dicks et al.
2001/0023360 A1	9/2001	Nelson et al.	2009/0124869 A1	5/2009	Hu et al.
2001/0047127 A1	11/2001	New et al.	2009/0149718 A1	6/2009	Kim et al.
2002/0082665 A1	6/2002	Haller et al.	2009/0171227 A1	7/2009	Dziubinski et al.
2002/0143576 A1	10/2002	Nolvak et al.	2009/0234672 A1	9/2009	Dicks et al.
2002/0156384 A1	10/2002	Eggers et al.	2009/0261968 A1	10/2009	El-Hamamsy et al.
2003/0028442 A1	2/2003	Wagstaff et al.	2009/0264783 A1	10/2009	Xi et al.
2003/0122677 A1	7/2003	Kail, IV	2009/0275854 A1	11/2009	Zielinski et al.
2003/0172940 A1	9/2003	Rogers et al.	2009/0299207 A1	12/2009	Barr
2004/0006278 A1	1/2004	Webb et al.	2009/0326981 A1	12/2009	Karkanias et al.
2004/0100376 A1	5/2004	Lye et al.	2010/0049006 A1	2/2010	Magar et al.
2004/0127802 A1	7/2004	Istvan et al.	2010/0056881 A1	3/2010	Libbus et al.
2004/0172290 A1	9/2004	Leven	2010/0069735 A1	3/2010	Berkner
2004/0260189 A1	12/2004	Eggers et al.	2010/0076325 A1	3/2010	Cho et al.
2005/0004486 A1	1/2005	Glass et al.	2010/0113895 A1	5/2010	Cho et al.
2005/0049515 A1	3/2005	Miszczynski et al.	2010/0160742 A1	6/2010	Seidl et al.
2005/0101875 A1	5/2005	Semler et al.	2010/0198089 A1	8/2010	Litovchick et al.
2005/0131308 A1	6/2005	Chio et al.	2010/0204586 A1	8/2010	Pu et al.
2005/0154325 A1	7/2005	Lauter et al.	2010/0249541 A1	9/2010	Geva et al.
2005/0165318 A1	7/2005	Brodnick et al.	2010/0249625 A1	9/2010	Lin
2005/0182308 A1	8/2005	Bardy	2010/0250271 A1	9/2010	Pearce et al.
2005/0182334 A1	8/2005	Korzinov et al.	2010/0268103 A1	10/2010	McNamara et al.
2005/0203349 A1	9/2005	Nanikashvili	2010/0286545 A1	11/2010	Wolfe et al.
2005/0234307 A1	10/2005	Heinonen et al.	2010/0298664 A1	11/2010	Baumann et al.
2006/0079797 A1	4/2006	Bischoff et al.	2010/0331649 A1	12/2010	Chou
2006/0079798 A1	4/2006	Bischoff et al.	2011/0004072 A1	1/2011	Fletcher et al.
2006/0149156 A1	7/2006	Cochran et al.	2011/0009711 A1	1/2011	Nanikashvili
2006/0206066 A1	9/2006	Ferek-Petric	2011/0066042 A1	3/2011	Pandia et al.
2006/0229522 A1	10/2006	Barr	2011/0066555 A1	3/2011	Dicks et al.
2007/0010748 A1	1/2007	Rauch et al.	2011/0071364 A1	3/2011	Kuo et al.
2007/0027388 A1	2/2007	Chou	2011/0078441 A1	3/2011	Dicks et al.
2007/0073266 A1	3/2007	Chmiel et al.	2011/0090086 A1	4/2011	Dicks et al.
2007/0093719 A1	4/2007	Nichols et al.	2011/0092835 A1	4/2011	Istvan et al.
			2011/0093283 A1	4/2011	Dicks et al.
			2011/0093284 A1	4/2011	Dicks et al.
			2011/0093285 A1	4/2011	Dicks et al.
			2011/0093286 A1	4/2011	Dicks et al.
			2011/0093287 A1	4/2011	Dicks et al.

(56)

References Cited

U.S. PATENT DOCUMENTS

2011/0093297 A1 4/2011 Dicks et al.
 2011/0097710 A1 4/2011 Macrae et al.
 2011/0098583 A1 4/2011 Pandia et al.
 2011/0105928 A1 5/2011 Bojovic et al.
 2011/0137133 A1 6/2011 Espina Perez
 2011/0144470 A1 6/2011 Mazar et al.
 2011/0158430 A1 6/2011 Dicks et al.
 2011/0161111 A1 6/2011 Dicks et al.
 2011/0166466 A1 7/2011 Chon et al.
 2011/0166468 A1 7/2011 Prystowsky et al.
 2011/0167250 A1 7/2011 Dicks et al.
 2011/0179405 A1 7/2011 Dicks et al.
 2011/0245633 A1 10/2011 Goldberg et al.
 2011/0270049 A1 11/2011 Katra et al.
 2011/0270112 A1 11/2011 Manera et al.
 2011/0288379 A1 11/2011 Wu
 2011/0301435 A1 12/2011 Albert et al.
 2011/0301439 A1 12/2011 Albert et al.
 2012/0022387 A1 1/2012 Balda
 2012/0101396 A1 4/2012 Solosko et al.
 2012/0165616 A1 6/2012 Geva et al.
 2012/0179055 A1 7/2012 Tamil et al.
 2012/0203124 A1 8/2012 Lim
 2012/0215123 A1 8/2012 Kumar et al.
 2013/0085364 A1 4/2013 Lu et al.
 2013/0109927 A1 5/2013 Menzel
 2013/0197322 A1 8/2013 Tran
 2013/0204100 A1 8/2013 Acquista
 2013/0225967 A1 8/2013 Esposito
 2013/0237861 A1 9/2013 Margarida et al.
 2013/0237874 A1 9/2013 Zoicas
 2013/0245387 A1 9/2013 Patel
 2013/0245472 A1 9/2013 Eveland
 2013/0253354 A1 9/2013 Fahey
 2013/0253355 A1 9/2013 Fahey
 2013/0289424 A1 10/2013 Brockway et al.
 2013/0303926 A1 11/2013 Kurzweil et al.
 2013/0331663 A1 12/2013 Albert et al.
 2013/0338516 A1 12/2013 Manera et al.
 2013/0338518 A1 12/2013 Zoica

FOREIGN PATENT DOCUMENTS

WO WO 01/93756 A3 12/2001
 WO WO 02/082799 A2 10/2002
 WO WO 02/082799 A3 10/2002

OTHER PUBLICATIONS

International Search Authority, International Search Report and the Written Opinion for International Application No. PCT/US2012/033592 dated Aug. 31, 2012 (14 pages).

Jovanov et al., "Patient Monitoring Using Personal Area Networks of Wireless Intelligent Sensors," Electrical and Computer Engineering Department, University of Alabama in Huntsville, Biomedical Sciences Instrumentation, 37:378-8, 6 pages, 2001.

Hopley et al., "The Magnificent ROC (Receiver Operating Characteristic Curve)," <http://www.anaestheist.com/stats/roc/index.htm>, 26 pages, Sep. 21, 2001.

Chazal et al., "Automatic Classification of Heartbeats Using ECG Morphology and Heartbeat Interval Features," IEEE Transactions on Biomedical Engineering, vol. 51, No. 7, pp. 1196-1206, 11 pages, Jul. 2004.

Philips, "Philips Remote Patient Monitoring," Philips Medical Systems, 4 pages, 2007.

Archive.org, "Clinical Policy Bulletin: Cardiac Event Monitors," No. 0073, Aetna, Inc., [web.archive.org_web_20090514063858_http_www.aetna.com_cpb_medical_data_1_99_0073.html](http://web.archive.org/web/20090514063858/http://www.aetna.com_cpb_medical_data_1_99_0073.html), 10 pages, May 14, 2009.

Center for Technology and Aging, "Technologies for Remote Patient Monitoring in Older Adults," Center for Technology and Aging, Position Paper, Discussion Draft, 30 pages, Dec. 2009.

Edevice, "M2M Solutions for Home Health Monitoring," edevice, http://www.edevice.com/medical/?gclid=CPCdlfiR_KcCFUpN4AodZEyzqO, 2 pages, 2010.

MedApps, Inc., "MedApps Mobile Wireless Remote Patient Monitoring," <http://www.medapps.com/>, 3 pages, 2010.

Archive.org, "The Area Under an ROC Curve," <http://web.archive.org/web/20100527211847/http://girn.unmc.edu/dxtests/roc3.htm>, 2 pages, May 27, 2010.

Medical Biostatistics.com, "Sensitivity-Specificity, Bayes' Rule, and Predictives," MedicalBiostatistics.com, <http://www.medicalbiostatistics.com/ROCCurve.pdf>, 4 pages, Sep. 5, 2010.

Medical Biostatistics.com, "ROC Curve," MedicalBiostatistics.com, 9 pages, Sep. 25, 2010.

IEEE, "Remote Patient Monitoring Service Using Heterogeneous Wireless Access Networks: Architecture and Optimization" Niyato et al. paper abstract, IEEE Xplore Digital Library http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4909280, 1 page, 2011.

TriMed Media Group, Inc., "FDA Green Lights AirStrip Smartphone Patient Monitoring Tool," TriMed Media Group, Inc., http://cardiovascularbusiness.com/index.php?option=com_articles&article=23414&pubication=137&view=portals&form=article23414&limitstart=30, 1 page, 2011.

Google Patents, Google Patent Search: "Healthcare Monitoring "web server" smartphone or mobile," www.google.com/patents, Mar. 9, 2011, 2 pages.

Wikipedia.org, "Holter Monitor," Wikipedia.org, http://en.wikipedia.org/w/index.php?title=Holter_monitor&oldid=417997699, Mar. 9, 2011, 4 pages.

Aetna, Inc., "Clinical Policy Bulletin: Cardiac Event Monitors," No. 0073, Aetna, Inc., www.aetna.com_cpb_medical_data_1_99_0073.html, 10 pages, Mar. 11, 2011.

Wikipedia.org, "Receiver Operating Characteristics," Wikipedia.org, http://en.wikipedia.org/wiki/Receiver_operating_characteristic, 6 pages, Apr. 14, 2011.

Medical Biostatistics.com, "Predictives Based ROC Curve," MedicalBiostatistics.com <http://www.medicalbiostatistics.com/PredictivityBasedROC.pdf>, 3 pages, Sep. 5, 2012.

International Preliminary Report on Patentability, PCT/US2012/033554; mailed Oct. 15, 2013.

International Preliminary Report on Patentability; PCT/US2012/033592; mailed Oct. 15, 2013.

* cited by examiner

FIG. 1

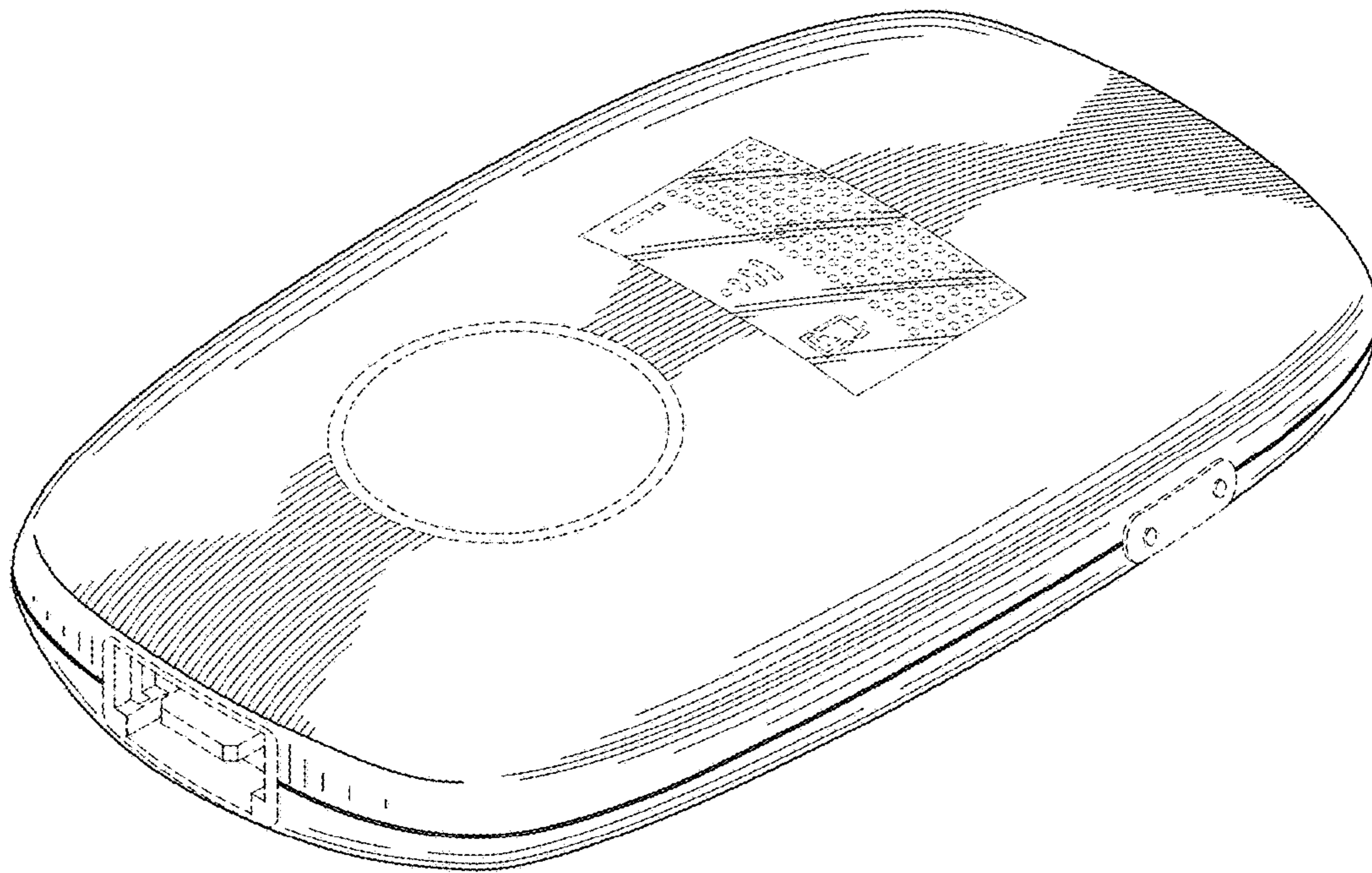


FIG. 2

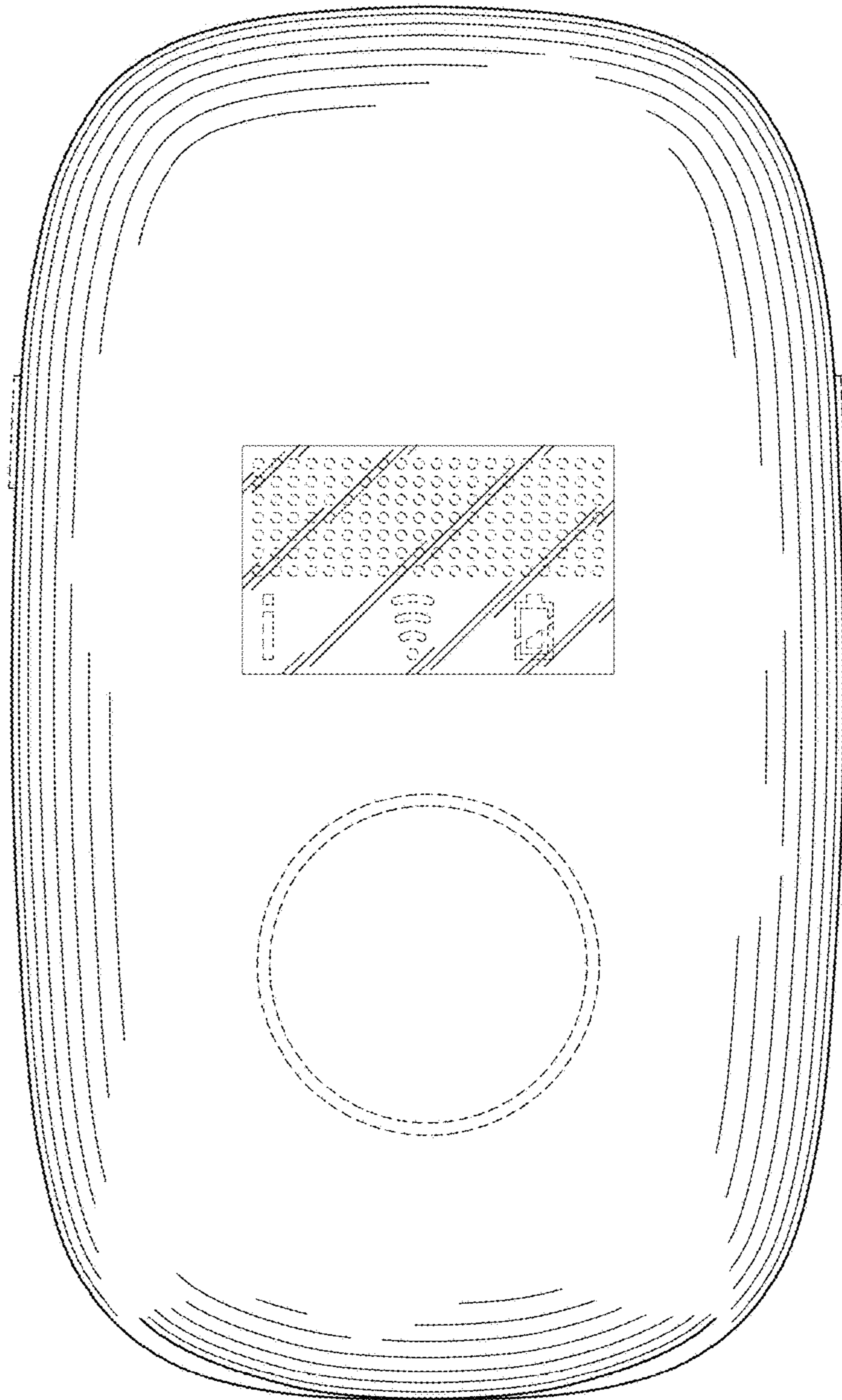


FIG. 3

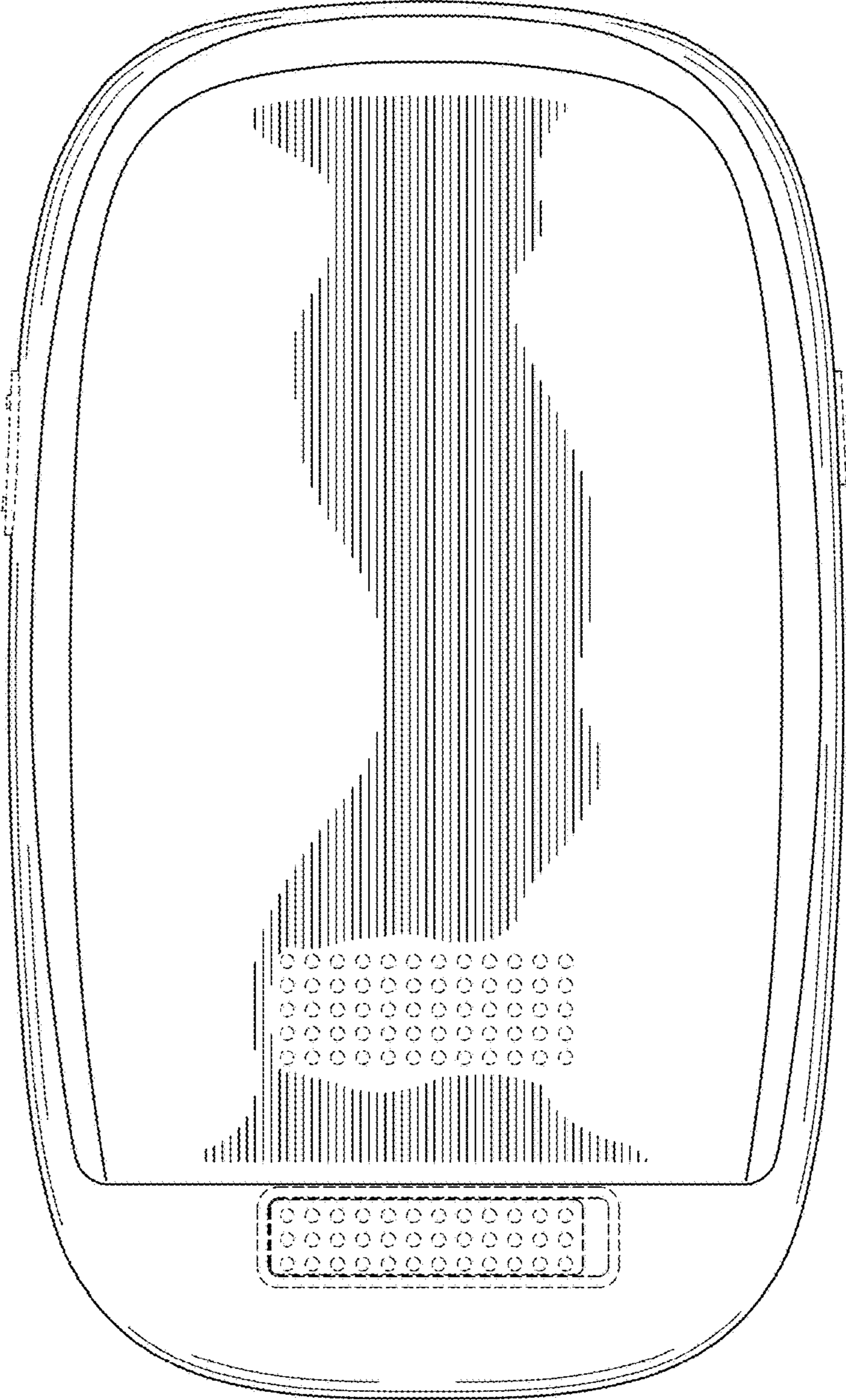


FIG. 4

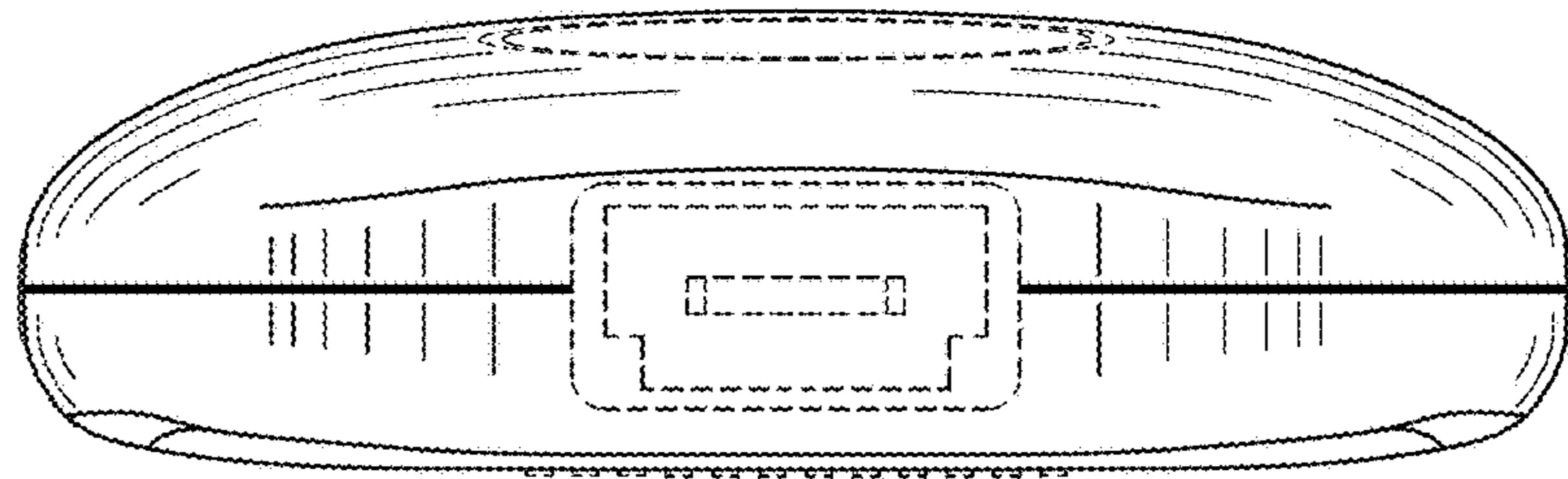


FIG. 5

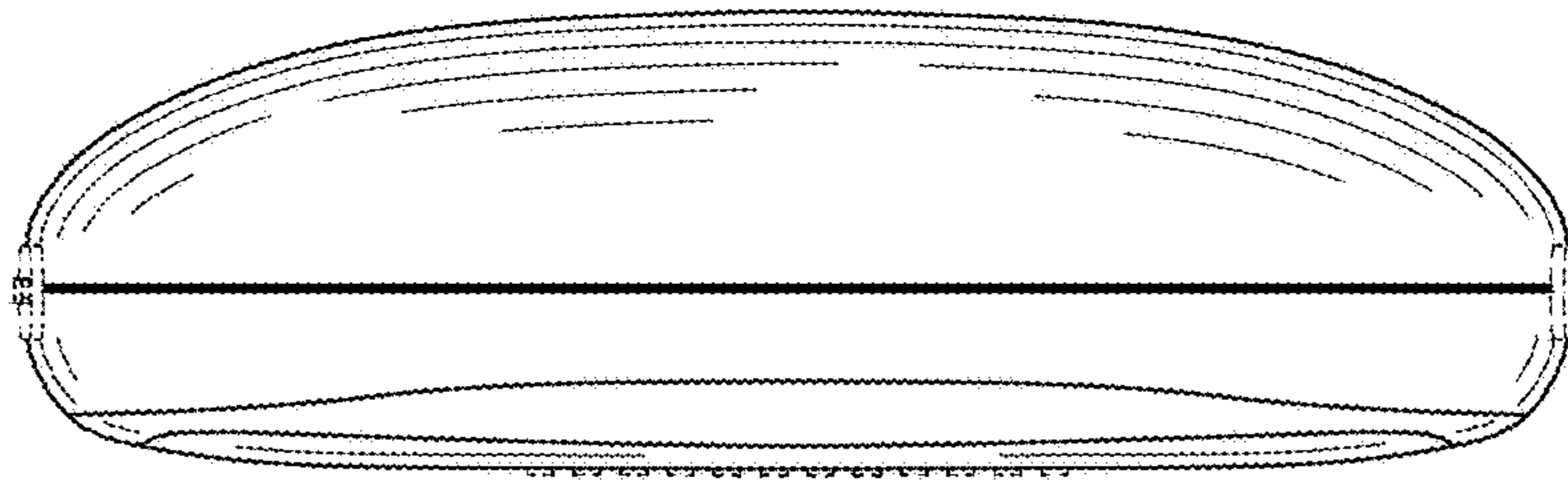


FIG. 6

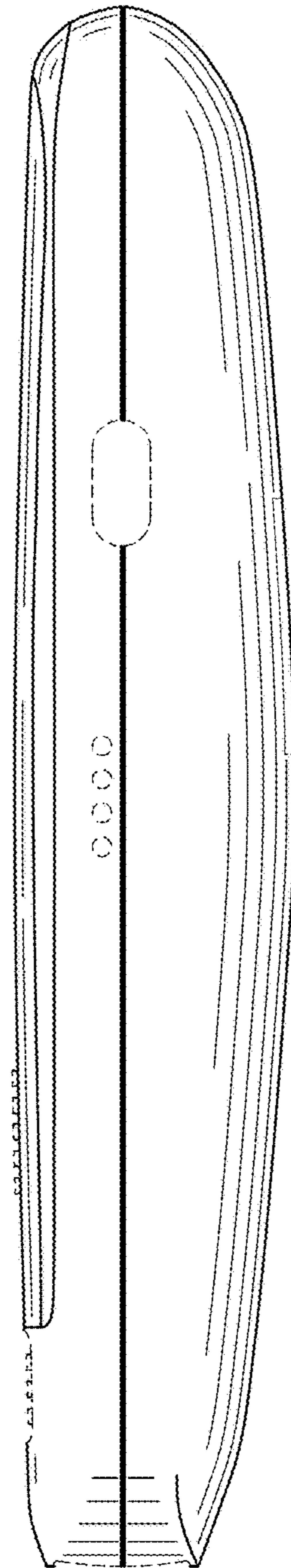


FIG. 7

