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(54) **PUMP**

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(52) **U.S. Cl.**
USPC **D24/111**

(58) **Field of Classification Search**
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417/477.3-477.9, 477.11-477.14; 604/500,
604/151

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,451,839	A	9/1995	Rappaport et al.
5,655,897	A	8/1997	Neftel et al.
5,936,539	A	8/1999	Fuchs
6,062,829	A	5/2000	Ognier
6,221,012	B1	4/2001	Maschke et al.
6,377,162	B1	4/2002	Delestienne et al.
6,377,806	B1	4/2002	Tokuyoshi
6,442,433	B1	8/2002	Linberg
6,519,569	B1	2/2003	White et al.
6,541,839	B1	4/2003	Giffard et al.

6,578,002	B1	6/2003	Derzay et al.	
6,695,806	B2 *	2/2004	Gelfand et al.	604/6.09
6,790,198	B1	9/2004	White et al.	
6,839,753	B2	1/2005	Biondi et al.	
6,942,473	B2 *	9/2005	Abrahamson et al.	417/474
7,028,182	B1	4/2006	Killcommons	
7,050,984	B1	5/2006	Kerpelman et al.	
7,082,460	B2	7/2006	Hansen et al.	
D535,202	S *	1/2007	Sisk et al.	D10/57
7,178,149	B2	2/2007	Hansen	
7,185,014	B1	2/2007	Hansen	
7,236,936	B2	6/2007	White et al.	
7,294,105	B1	11/2007	Islam	
7,316,648	B2	1/2008	Kelly et al.	
7,349,947	B1	3/2008	Slage et al.	
7,508,787	B2	3/2009	Doshi et al.	
7,529,561	B2	5/2009	HeiMomen et al.	
7,539,532	B2	5/2009	Tran	

(Continued)

FOREIGN PATENT DOCUMENTS

CA	2648885	A1	11/2007
CA	2644635	A1	8/2008

(Continued)

Primary Examiner — Wan Laymon

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(57) **CLAIM**

The ornamental design for a pump, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a pump having portions shown in phantom;

FIG. 2 is a front view thereof;

FIG. 3 is a right side view thereof;

FIG. 4 is a top plan view thereof;

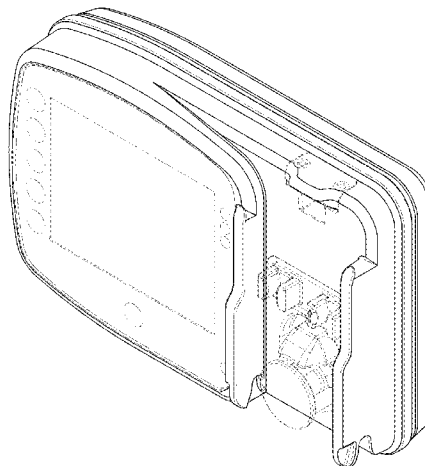
FIG. 5 is a rear view thereof;

FIG. 6 is a left side view thereof; and,

FIG. 7 is a bottom plan view thereof.

The elements shown in phantom form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,539,533 B2	5/2009	Tran	2008/0097550 A1	4/2008	Dicks et al.
7,558,622 B2	7/2009	Tran	2008/0097551 A1	4/2008	Dicks et al.
7,613,169 B2	11/2009	Vaittinen et al.	2008/0097552 A1	4/2008	Dicks et al.
7,645,258 B2	1/2010	White et al.	2008/0097793 A1	4/2008	Dicks et al.
7,707,047 B2	4/2010	Hasan et al.	2008/0097908 A1	4/2008	Dicks et al.
7,733,224 B2	6/2010	Tran	2008/0097909 A1	4/2008	Dicks et al.
7,752,058 B2	7/2010	Sasaki et al.	2008/0097910 A1	4/2008	Dicks et al.
7,827,040 B2	11/2010	Brown	2008/0097911 A1	4/2008	Dicks et al.
7,873,772 B2	1/2011	Waldhoff et al.	2008/0097912 A1	4/2008	Dicks et al.
7,934,912 B2	5/2011	Voltenburg, Jr. et al.	2008/0097913 A1	4/2008	Dicks et al.
7,937,370 B2	5/2011	Hansen	2008/0097914 A1	4/2008	Dicks et al.
7,942,844 B2	5/2011	Moberg et al.	2008/0097917 A1	4/2008	Dicks et al.
7,949,164 B2	5/2011	Degani et al.	2008/0108880 A1	5/2008	Young et al.
7,949,404 B2	5/2011	Hill	2008/0183502 A1	7/2008	Dicks et al.
7,978,062 B2	7/2011	LaLonde	2008/0224852 A1	9/2008	Dicks et al.
8,002,701 B2	8/2011	John et al.	2008/0281168 A1	11/2008	Gibson et al.
RE42,934 E	11/2011	Thompson	2009/0019061 A1	1/2009	Scannell, Jr.
8,047,819 B2	11/2011	Lawrence et al.	2009/0023391 A1	1/2009	Falck
8,073,008 B2	12/2011	Mehta et al.	2009/0058635 A1	3/2009	LaLonde et al.
8,095,381 B2	1/2012	Simons et al.	2009/0058636 A1	3/2009	Gaskill et al.
8,108,543 B2	1/2012	Hansen	2009/0062887 A1	3/2009	Mass et al.
8,125,318 B2	2/2012	Heimbrock et al.	2009/0063187 A1	3/2009	Johnson et al.
8,126,728 B2	2/2012	Dicks et al.	2009/0063193 A1	3/2009	Barton et al.
8,126,729 B2	2/2012	Dicks et al.	2009/0073694 A1	3/2009	Scannell, Jr.
8,126,730 B2	2/2012	Dicks et al.	2009/0087325 A1 *	4/2009	Voltenburg et al. 417/476
8,126,732 B2	2/2012	Dicks et al.	2009/0105549 A1	4/2009	Smith et al.
8,126,733 B2	2/2012	Dicks et al.	2009/0115628 A1	5/2009	Dicks et al.
8,126,734 B2	2/2012	Dicks et al.	2009/0128320 A1	5/2009	Needham et al.
8,126,735 B2	2/2012	Dicks et al.	2009/0184835 A1	7/2009	Deaver, Sr. et al.
8,131,564 B2	3/2012	Dicks et al.	2009/0203329 A1	8/2009	White et al.
8,131,565 B2	3/2012	Dicks et al.	2009/0234672 A1	9/2009	Dicks et al.
8,131,566 B2	3/2012	Dicks et al.	2009/0247114 A1	10/2009	Sennett et al.
8,140,356 B2	3/2012	Dicks et al.	2009/0252117 A1	10/2009	Sherman et al.
8,155,982 B2	4/2012	Dicks et al.	2009/0299788 A1	12/2009	Huber et al.
8,197,236 B2	6/2012	McIntosh	2009/0306747 A1	12/2009	Fischer et al.
8,200,195 B2	6/2012	Le Saint et al.	2010/0011000 A1	1/2010	Chakra et al.
8,214,549 B2	7/2012	Dicks et al.	2010/0027518 A1	2/2010	Wang
8,326,648 B2	12/2012	Kenedy et al.	2010/0077115 A1	3/2010	Rofougaran
8,373,556 B2	2/2013	LaLonde et al.	2010/0079276 A1	4/2010	Collins et al.
8,395,498 B2	3/2013	Gaskill et al.	2010/0080200 A1	4/2010	Stewart
8,428,722 B2	4/2013	Verhoef et al.	2010/0082371 A1	4/2010	Kamp et al.
8,515,547 B2	8/2013	Mass et al.	2010/0085948 A1	4/2010	Yu et al.
8,545,198 B2	10/2013	Artsyukhovich et al.	2010/0117835 A1	5/2010	Nanikashvili
8,587,427 B2	11/2013	LaLonde et al.	2010/0138235 A1	6/2010	Marks et al.
8,694,600 B2	4/2014	Gaines et al.	2010/0166170 A1	7/2010	East et al.
2002/0178126 A1	11/2002	Beck et al.	2010/0198142 A1	8/2010	Sloan et al.
2002/0198473 A1	12/2002	Kumar et al.	2010/0217723 A1	8/2010	Sauerwein, Jr. et al.
2004/0155772 A1	8/2004	Merdema et al.	2010/0219250 A1	9/2010	Wang
2004/0204743 A1	10/2004	McGrath et al.	2010/0234695 A1	9/2010	Morris
2005/0010093 A1	1/2005	Ford et al.	2010/0260061 A1	10/2010	Bojakra et al.
2005/0185398 A1	8/2005	Scannell, Jr.	2010/0279647 A1	11/2010	Jacobs et al.
2005/0188853 A1	9/2005	Scannell, Jr.	2010/0292556 A1	11/2010	Golden
2005/0201300 A1	9/2005	Bridgelall	2010/0317286 A1	12/2010	Jung et al.
2005/0243988 A1	11/2005	Barclay et al.	2010/0318578 A1	12/2010	Treu et al.
2005/0288571 A1	12/2005	Perkins et al.	2011/0021902 A1	1/2011	Kim et al.
2006/0154642 A1	7/2006	Scannell, Jr.	2011/0032822 A1	2/2011	Soomro
2006/0238333 A1	10/2006	Welch et al.	2011/0066555 A1	3/2011	Dicks et al.
2007/0106126 A1	5/2007	Mannheimer	2011/0078441 A1	3/2011	Dicks et al.
2007/0156033 A1	7/2007	Causey, III et al.	2011/0087756 A1	4/2011	Biondi et al.
2007/0180140 A1	8/2007	Welch et al.	2011/0093283 A1	4/2011	Dicks et al.
2007/0186923 A1	8/2007	Poutiatine et al.	2011/0093284 A1	4/2011	Dicks et al.
2007/0216764 A1	9/2007	Kwak	2011/0093285 A1	4/2011	Dicks et al.
2007/0230197 A1	10/2007	Scannell, Jr.	2011/0093286 A1	4/2011	Dicks et al.
2007/0253380 A1	11/2007	Jollota et al.	2011/0093287 A1	4/2011	Dicks et al.
2007/0254593 A1	11/2007	Jollota et al.	2011/0093297 A1	4/2011	Dicks et al.
2007/0255125 A1	11/2007	Moberg et al.	2011/0148624 A1	6/2011	Eaton et al.
2007/0255250 A1	11/2007	Moberg et al.	2011/0158430 A1	6/2011	Dicks et al.
2007/0258395 A1	11/2007	Jollota et al.	2011/0161111 A1	6/2011	Dicks et al.
2007/0268687 A1	11/2007	Scannell, Jr.	2011/0179405 A1	7/2011	Dicks et al.
2007/0272670 A1	11/2007	Chen	2011/0255454 A1	10/2011	Hauser et al.
2007/0276270 A1	11/2007	Tran	2011/0270045 A1	11/2011	Lebel et al.
2008/0004907 A1	1/2008	Bayne	2011/0273287 A1	11/2011	LaLonde et al.
2008/0012761 A1	1/2008	Derrick et al.	2011/0280224 A1	11/2011	Falck et al.
2008/0071234 A1	3/2008	Kelch et al.	2011/0282671 A1	11/2011	Dicks et al.
2008/0072900 A1 *	3/2008	Kenyon et al. 128/204.18	2011/0292862 A1	12/2011	Shimizu
			2012/0004925 A1	1/2012	Braverman et al.
			2012/0034117 A1	2/2012	Pfouts et al.
			2012/0083735 A1	4/2012	Pfouts
			2012/0108917 A1	5/2012	Libbus et al.

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(56)

References Cited

U.S. PATENT DOCUMENTS

2012/0182143	A1	7/2012	Gaines et al.
2012/0182894	A1	7/2012	Gaines et al.
2012/0182924	A1	7/2012	Gaines et al.
2012/0182927	A1	7/2012	Wiesner et al.
2012/0184207	A1	7/2012	Gaines et al.
2012/0184237	A1	7/2012	Gaines et al.
2012/0185268	A1	7/2012	Wiesner et al.
2012/0226768	A1	9/2012	Gaines et al.
2012/0226771	A1	9/2012	Harrington et al.
2012/0256751	A1	10/2012	Nallabelli et al.
2012/0293323	A1	11/2012	Soomro
2013/0015966	A1	1/2013	Soomro et al.
2013/0021169	A1	1/2013	Soomro et al.
2013/0022022	A1	1/2013	Schmitt
2013/0066644	A1	3/2013	Dicks et al.
2013/0071272	A1	3/2013	Jurelich et al.
2013/0147622	A1	6/2013	LaLonde et al.
2013/0154851	A1	6/2013	Gaskill et al.
2013/0162426	A1	6/2013	Wiesner et al.
2013/0278414	A1	10/2013	Sprigg et al.
2013/0310896	A1	11/2013	Mass
2014/0009271	A1	1/2014	Collins et al.
2014/0010691	A1*	1/2014	Lanigan et al. 417/477.2
2014/0062718	A1	3/2014	LaLonde et al.

2014/0135731	A1*	5/2014	Breitweiser et al. 604/500
2014/0142979	A1	5/2014	Mitsunga
2014/0152466	A1	6/2014	Wiesner et al.

FOREIGN PATENT DOCUMENTS

CA	2644695	C	9/2010
CN	101601040	A	12/2009
EP	2227063	B1	9/2010
JP	2003109160	A	4/2003
JP	2006520657	A	9/2006
JP	2007531442	A	11/2007
JP	2008108170	A	5/2008
JP	2009535715	A	1/2009
JP	2010524050	A	7/2010
JP	2011502369	A	1/2011
WO	2003048919	A1	6/2003
WO	2004070994	A2	8/2004
WO	2004084720	A2	10/2004
WO	2005057294	A1	6/2005
WO	2005057834	A2	6/2005
WO	2005098736	A2	10/2005
WO	2007124091	A1	11/2007
WO	2007127879	A2	11/2007
WO	2008052034	A1	5/2008
WO	2008097316	A1	8/2008
WO	2009032134	A2	3/2009
WO	2009063303	A1	5/2009

* cited by examiner

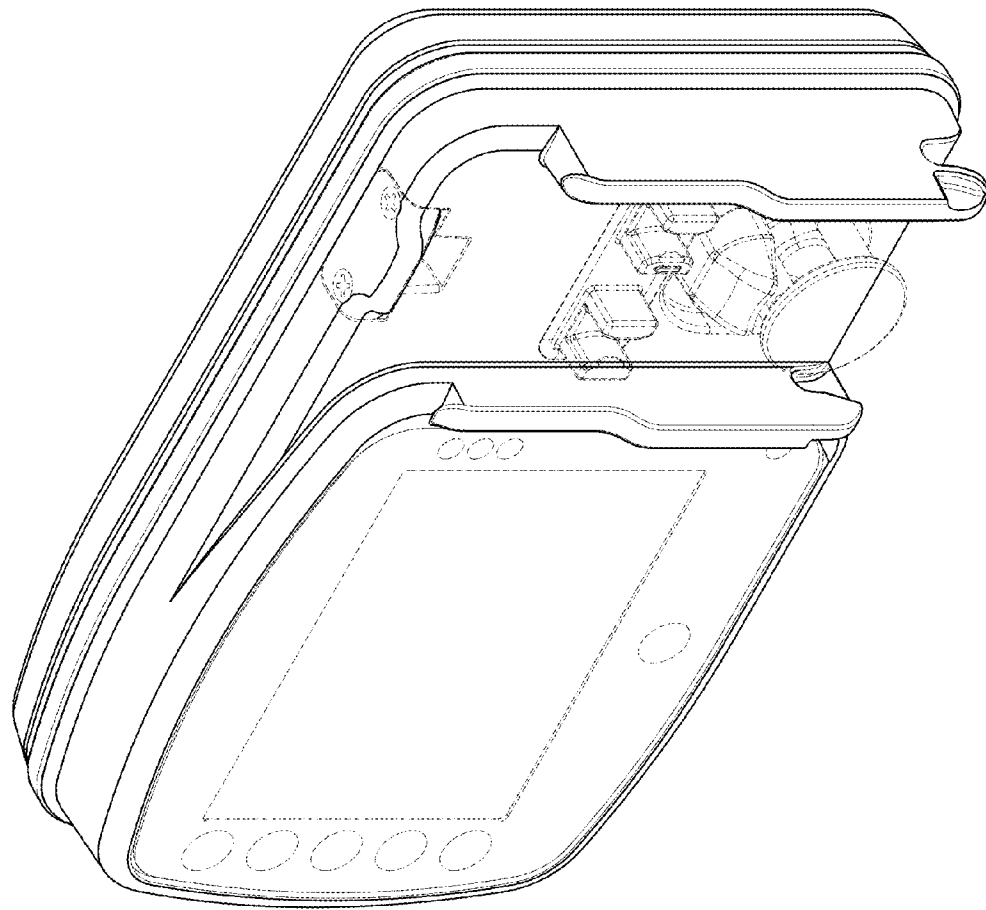


FIG. 1

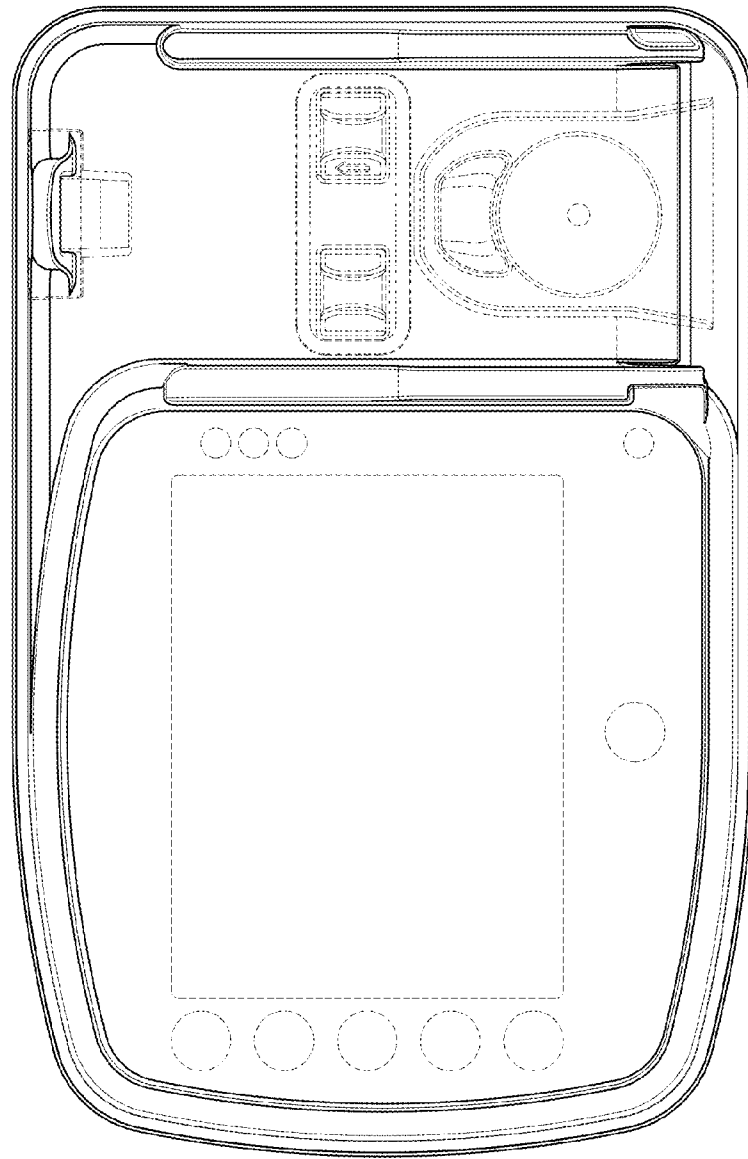
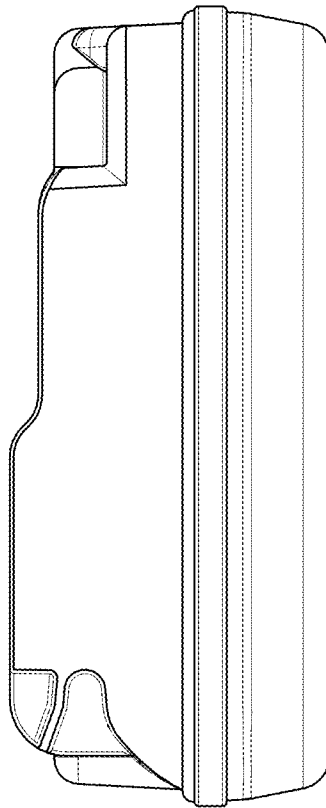


FIG. 2

FIG. 3



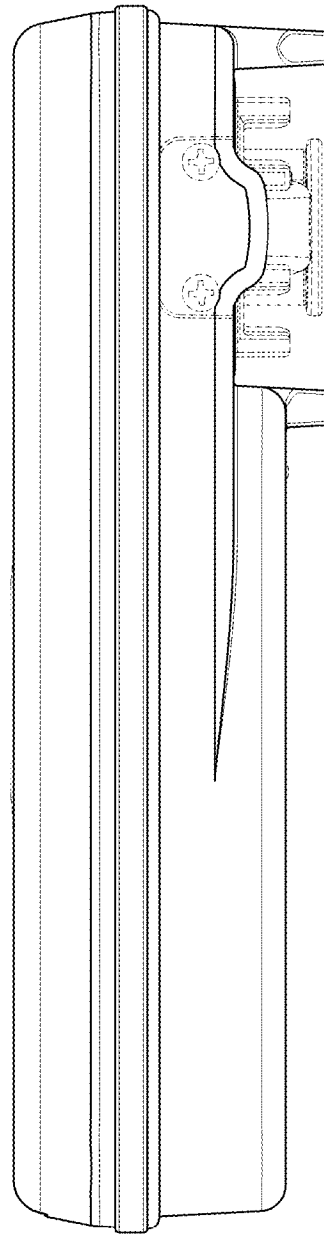


FIG. 4

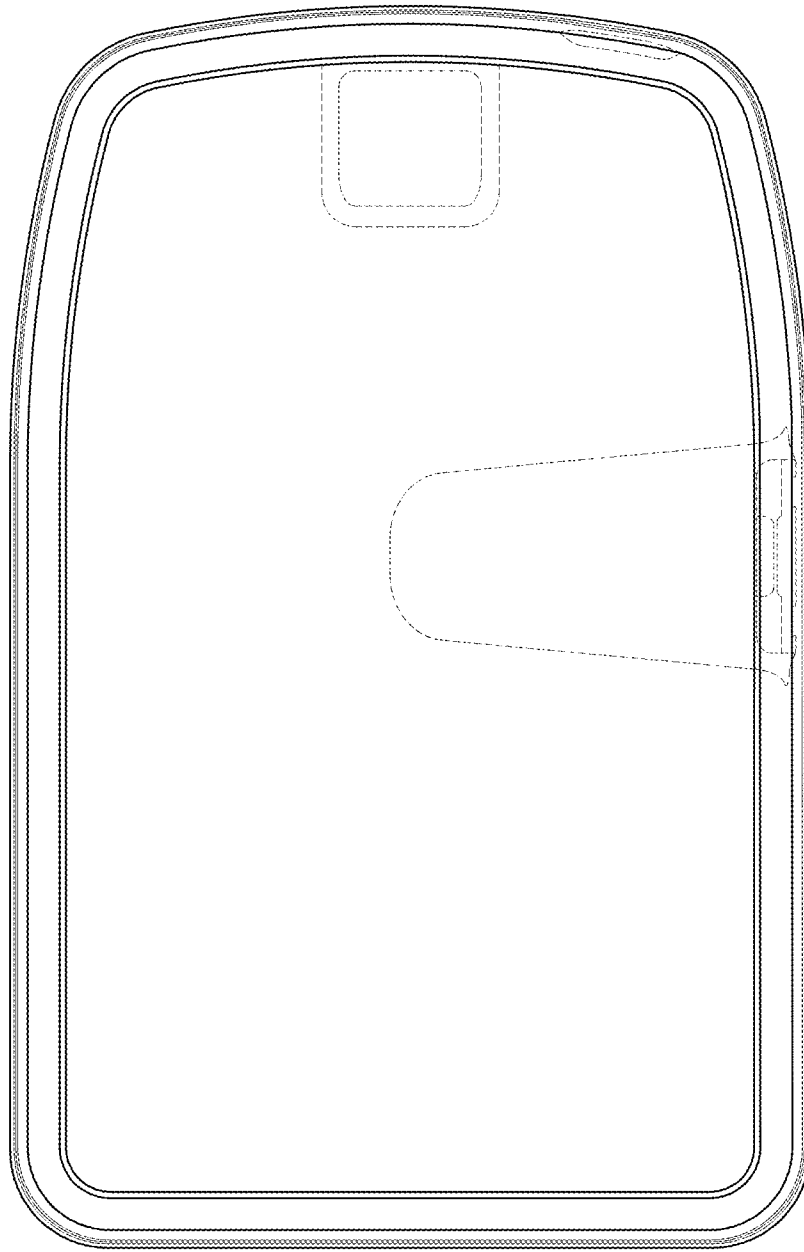


FIG. 5

FIG. 6

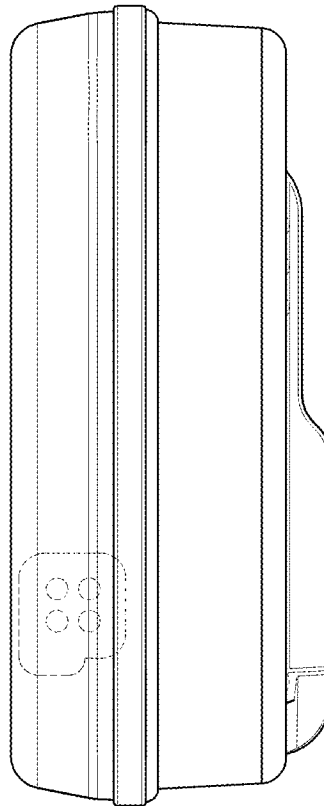


FIG. 7

