



US00D718755S

(12) **United States Design Patent**
To et al.

(10) **Patent No.:** **US D718,755 S**
(45) **Date of Patent:** **** Dec. 2, 2014**

(54) **THIN BANDED SNAP BATTERY CASE FOR A MOBILE DEVICE**

(71) Applicant: **Mophie, Inc.**, Tustin, CA (US)

(72) Inventors: **Nguyen To**, Corona, CA (US);
Hong-Wei Zhang, Shenzhen (CN);
William Benjamin Hasbrook, Tualatin,
OR (US); **Sean Michael Stuck**,
Portland, OR (US)

(73) Assignee: **Mophie, Inc.**, Tustin, CA (US)

(**) Term: **14 Years**

(21) Appl. No.: **29/440,062**

(22) Filed: **Dec. 18, 2012**

(51) **LOC (10) Cl.** **14-03**

(52) **U.S. Cl.**
USPC **D14/250**

(58) **Field of Classification Search**
USPC D14/250, 440, 238.1, 251-253, 203.7,
D14/217, 496, 248, 240, 447, 341-347, 432,
D14/434; D13/110, 118, 184, 199, 103,
D13/107, 108, 119; 220/4.02; 320/107;
224/191, 240, 241, 245, 682, 683;
D3/201, 218, 247, 269, 273, 301, 303;
361/679.56, 679.3, 679.25, 816;
379/426, 433.11, 455; 455/575.1,
455/575.8

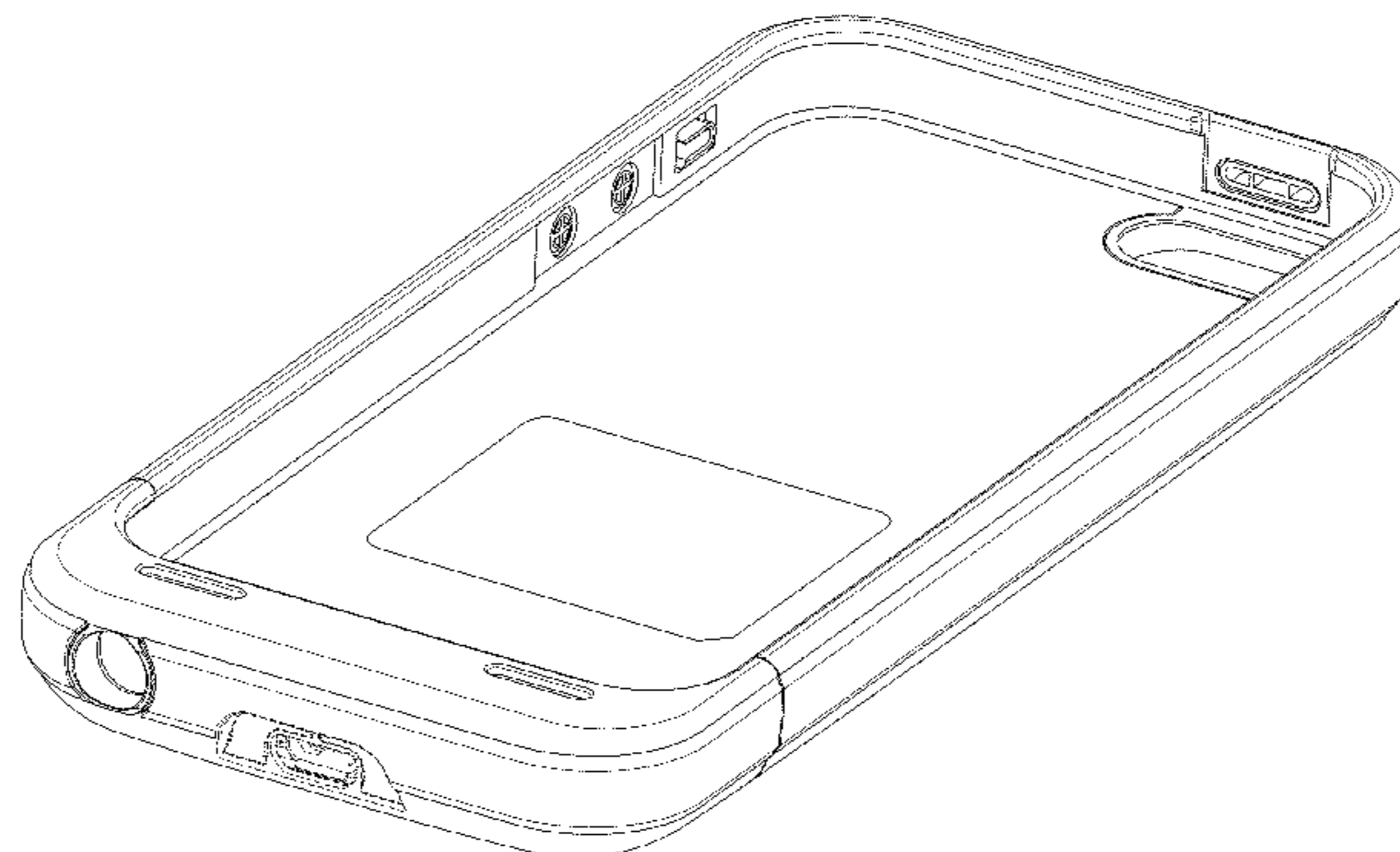
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D267,795 S 2/1983 Mallon
4,479,596 A 10/1984 Swanson
4,515,272 A 5/1985 Newhouse
D284,372 S 6/1986 Carpenter
4,951,817 A 8/1990 Barletta et al.
D312,534 S 12/1990 Nelson et al.
5,001,772 A 3/1991 Holcomb et al.
D322,719 S 12/1991 Jayez
D327,868 S 7/1992 Oka

5,360,108 A 11/1994 Alagia
5,368,159 A 11/1994 Doria
5,383,091 A 1/1995 Snell
5,386,084 A 1/1995 Risko
5,508,123 A 4/1996 Fan
D372,896 S 8/1996 Nagele et al.
5,586,002 A 12/1996 Notarianni
5,604,050 A 2/1997 Brunette et al.
5,610,979 A 3/1997 Yu
5,708,707 A 1/1998 Halttunen et al.
5,711,013 A 1/1998 Collett et al.
D392,248 S 3/1998 Johansson
D392,939 S 3/1998 Finke-Anlauff
5,786,106 A 7/1998 Armani
5,816,459 A 10/1998 Armistead
D400,495 S 11/1998 Deslyper et al.
5,859,481 A 1/1999 Banyas
5,864,766 A 1/1999 Chiang
D405,801 S 2/1999 Nagele et al.
D407,063 S 3/1999 Reis et al.
D407,708 S 4/1999 Nagele et al.
5,896,277 A 4/1999 Leon et al.
5,973,477 A 10/1999 Chang
D417,189 S 11/1999 Amero, Jr. et al.
6,043,626 A 3/2000 Snyder et al.
D424,512 S 5/2000 Ho
6,081,595 A 6/2000 Picaud
D428,019 S 7/2000 Amron
6,082,535 A 7/2000 Mitchell
6,171,138 B1 1/2001 Lefebvre et al.
D438,004 S 2/2001 Watson et al.
6,184,654 B1 2/2001 Bachner, III et al.
D439,218 S 3/2001 Yu
6,201,867 B1 3/2001 Koike
6,208,115 B1 3/2001 Binder
D446,497 S 8/2001 Yu
6,273,252 B1 8/2001 Mitchell
6,313,982 B1 11/2001 Hino
6,317,313 B1 11/2001 Mosgrove et al.
6,324,380 B1 11/2001 Kiuchi et al.
6,346,791 B1 2/2002 Barguirdjian
6,405,056 B1 6/2002 Altschul et al.
D460,411 S 7/2002 Wang
D460,761 S 7/2002 Croley
6,415,138 B2 7/2002 Sirola et al.
6,445,577 B1 9/2002 Madsen et al.
6,471,056 B1 10/2002 Tzeng
D469,427 S 1/2003 Ma et al.
6,536,589 B2 3/2003 Chang
6,538,413 B1 3/2003 Beard et al.
D472,384 S 4/2003 Richardson
6,552,513 B1 4/2003 Li
6,555,990 B1 4/2003 Yang



US D718,755 S

| | | | | | |
|--------------|---------|---------------------|----------------|---------|-------------------------------|
| 6,583,601 B2 | 6/2003 | Simoies et al. | D581,151 S | 11/2008 | Aipa |
| 6,614,722 B2 | 9/2003 | Polany et al. | D581,155 S | 11/2008 | Richardson et al. |
| 6,626,362 B1 | 9/2003 | Steiner et al. | D581,421 S | 11/2008 | Richardson et al. |
| D481,716 S | 11/2003 | He et al. | D582,149 S | 12/2008 | Tan |
| D482,529 S | 11/2003 | Hardigg et al. | 7,464,814 B2 | 12/2008 | Carnevali |
| 6,646,864 B2 | 11/2003 | Richardson | D584,732 S | 1/2009 | Cho et al. |
| D484,874 S | 1/2004 | Chang et al. | 7,479,759 B2 | 1/2009 | Vilanov et al. |
| D485,834 S | 1/2004 | Davetas | D587,008 S | 2/2009 | Richardson et al. |
| 6,701,159 B1 | 3/2004 | Powell | D587,896 S | 3/2009 | Aipa |
| 6,708,887 B1 | 3/2004 | Garrett et al. | D589,016 S | 3/2009 | Richardson et al. |
| 6,714,802 B1 | 3/2004 | Barvesten | 7,536,099 B2 | 5/2009 | Dalby et al. |
| 6,819,549 B1 | 11/2004 | Lammers-Meis et al. | D593,319 S | 6/2009 | Richardson et al. |
| D500,041 S | 12/2004 | Tsujimoto | D593,746 S | 6/2009 | Richardson et al. |
| D506,612 S | 6/2005 | Rosa et al. | D594,849 S | 6/2009 | Ko |
| D508,495 S | 8/2005 | Bone et al. | 7,555,325 B2 | 6/2009 | Goros |
| D513,123 S | 12/2005 | Richardson et al. | D597,089 S | 7/2009 | Khan et al. |
| 6,980,777 B2 | 12/2005 | Shepherd et al. | D597,301 S | 8/2009 | Richardson et al. |
| D513,451 S | 1/2006 | Richardson et al. | D598,407 S | 8/2009 | Richardson et al. |
| 6,992,461 B2 | 1/2006 | Liang et al. | 7,577,462 B2 | 8/2009 | Kumar |
| D514,808 S | 2/2006 | Morine et al. | D600,640 S * | 9/2009 | Stein et al. D13/103 |
| D516,309 S | 3/2006 | Richardson et al. | D600,908 S | 9/2009 | Richardson et al. |
| D516,553 S | 3/2006 | Richardson et al. | D601,955 S | 10/2009 | Ekmekdje |
| D516,554 S | 3/2006 | Richardson et al. | D601,959 S | 10/2009 | Lee et al. |
| D516,807 S | 3/2006 | Richardson et al. | D601,960 S | 10/2009 | Dai |
| D517,007 S | 3/2006 | Yong-Jian et al. | 7,609,512 B2 | 10/2009 | Richardson et al. |
| D520,744 S | 5/2006 | Pangerc et al. | D603,602 S | 11/2009 | Richardson et al. |
| 7,050,841 B1 | 5/2006 | Onda | D603,603 S | 11/2009 | Laine et al. |
| 7,069,063 B2 | 6/2006 | Halkosaari et al. | 7,612,997 B1 * | 11/2009 | Diebel et al. 361/679.56 |
| D525,582 S | 7/2006 | Chan | D605,850 S | 12/2009 | Richardson et al. |
| 7,072,699 B2 | 7/2006 | Eiden | D606,528 S | 12/2009 | Khan et al. |
| 7,079,879 B1 | 7/2006 | Sylvester et al. | D606,529 S | 12/2009 | Ferrari et al. |
| 7,081,736 B2 | 7/2006 | Seil et al. | 7,635,086 B2 | 12/2009 | Spencer, II |
| D526,780 S | 8/2006 | Richardson et al. | 7,638,969 B2 | 12/2009 | Woud |
| D526,958 S | 8/2006 | Shimizu | 7,647,082 B2 | 1/2010 | Holmberg |
| D530,079 S | 10/2006 | Thomas et al. | D609,228 S | 2/2010 | Ferrari et al. |
| D535,252 S | 1/2007 | Sandnes | D609,463 S | 2/2010 | Bullen |
| 7,158,376 B2 | 1/2007 | Richardson et al. | D610,538 S | 2/2010 | Wu et al. |
| 7,166,987 B2 | 1/2007 | Lee et al. | 7,656,120 B2 | 2/2010 | Neu et al. |
| D537,063 S | 2/2007 | Kim et al. | 7,663,878 B2 | 2/2010 | Swan et al. |
| 7,180,735 B2 | 2/2007 | Thomas et al. | 7,667,433 B1 | 2/2010 | Smith |
| 7,180,754 B2 | 2/2007 | Qin et al. | D610,807 S | 3/2010 | Bau |
| 7,194,291 B2 | 3/2007 | Peng | D611,042 S | 3/2010 | Ferrari et al. |
| D540,539 S | 4/2007 | Gutierrez | D611,478 S | 3/2010 | Richardson et al. |
| 7,203,467 B2 | 4/2007 | Siddiqui | D613,282 S | 4/2010 | Richardson et al. |
| D542,286 S | 5/2007 | Taniyama et al. | D615,077 S | 5/2010 | Richardson et al. |
| D542,524 S | 5/2007 | Richardson et al. | D615,535 S | 5/2010 | Richardson et al. |
| D543,541 S | 5/2007 | Chung et al. | D615,536 S | 5/2010 | Richardson et al. |
| D544,486 S | 6/2007 | Hussaini et al. | D615,967 S | 5/2010 | Richardson et al. |
| 7,230,823 B2 | 6/2007 | Richardson et al. | D616,360 S * | 5/2010 | Huang D13/103 |
| D547,056 S | 7/2007 | Griffin et al. | D616,361 S * | 5/2010 | Huang D13/103 |
| D547,057 S | 7/2007 | Griffin et al. | D617,753 S | 6/2010 | Cheng |
| D550,455 S | 9/2007 | Barnhart | D617,784 S | 6/2010 | Richardson et al. |
| D551,252 S | 9/2007 | Andre et al. | D617,785 S | 6/2010 | Richardson et al. |
| D551,856 S | 10/2007 | Ko et al. | D617,786 S | 6/2010 | Richardson et al. |
| D553,857 S | 10/2007 | Pendergraph et al. | D617,787 S | 6/2010 | Richardson et al. |
| D556,679 S | 12/2007 | Weinstein et al. | 7,733,637 B1 | 6/2010 | Lam |
| D556,681 S * | 12/2007 | Kim D13/103 | D619,573 S | 7/2010 | Khan et al. |
| D557,205 S | 12/2007 | Kim | D619,574 S | 7/2010 | Richardson et al. |
| D557,264 S | 12/2007 | Richardson et al. | D619,991 S | 7/2010 | Huang |
| D557,494 S | 12/2007 | Mayette et al. | D620,487 S | 7/2010 | Richardson et al. |
| D557,897 S | 12/2007 | Richardson et al. | D621,394 S | 8/2010 | Richardson et al. |
| 7,312,984 B2 | 12/2007 | Richardson et al. | D621,395 S | 8/2010 | Richardson et al. |
| D558,667 S | 1/2008 | Park et al. | D621,821 S | 8/2010 | Richardson et al. |
| D558,757 S | 1/2008 | Andre et al. | D621,822 S | 8/2010 | Richardson et al. |
| D558,972 S | 1/2008 | Oh | 7,778,023 B1 | 8/2010 | Mohoney |
| D558,973 S | 1/2008 | Hussaini et al. | 7,782,610 B2 * | 8/2010 | Diebel et al. 361/679.56 |
| D559,267 S | 1/2008 | Griffin | D623,179 S | 9/2010 | Richardson et al. |
| D560,229 S | 1/2008 | Yagi | D623,180 S | 9/2010 | Diebel |
| D561,092 S * | 2/2008 | Kim D13/103 | D623,638 S | 9/2010 | Richardson et al. |
| 7,336,973 B2 | 2/2008 | Goldthwaite et al. | D623,639 S | 9/2010 | Richardson et al. |
| D563,093 S | 3/2008 | Nussberger et al. | D623,640 S | 9/2010 | Freeman |
| 7,343,184 B2 | 3/2008 | Rostami | D624,317 S | 9/2010 | Wenchel et al. |
| D565,291 S | 4/2008 | Brandenburg et al. | D624,533 S | 9/2010 | Richardson et al. |
| 7,400,917 B2 | 7/2008 | Wood et al. | D624,908 S | 10/2010 | Huskinson |
| D574,326 S | 8/2008 | Lim | D624,909 S | 10/2010 | Huskinson |
| D574,819 S | 8/2008 | Andre et al. | D624,910 S | 10/2010 | Richardson et al. |
| D575,056 S | 8/2008 | Tan | D625,303 S | 10/2010 | Kim |
| 7,428,427 B2 | 9/2008 | Brunstrom et al. | D626,120 S | 10/2010 | Richardson et al. |
| D577,904 S | 10/2008 | Sasaki | D626,121 S | 10/2010 | Richardson et al. |

US D718,755 S

| | | | | | | |
|----------------|---------|----------------------|-----------------|---------|----------------------|------------|
| D626,538 S | 11/2010 | Brown et al. | D664,091 S * | 7/2012 | Pliner et al. | D13/108 |
| D626,539 S | 11/2010 | Brown et al. | 8,224,408 B2 | 7/2012 | Tomasini et al. | |
| D626,540 S | 11/2010 | Brown et al. | D665,386 S | 8/2012 | Fathollahi | |
| D626,964 S | 11/2010 | Richardson et al. | D665,735 S | 8/2012 | Kang et al. | |
| D628,568 S | 12/2010 | Richardson et al. | 8,245,842 B2 | 8/2012 | Bau | |
| D628,994 S | 12/2010 | Griffin, Jr. et al. | 8,247,102 B2 | 8/2012 | Hua | |
| 7,859,222 B2 | 12/2010 | Woud | D667,783 S | 9/2012 | Zhang et al. | |
| D631,246 S | 1/2011 | Boettner | D670,281 S * | 11/2012 | Corpuz et al. | D14/250 |
| 7,863,856 B2 | 1/2011 | Sherman et al. | D670,689 S * | 11/2012 | Wang | D14/250 |
| 7,863,862 B2 | 1/2011 | Idzik et al. | D671,105 S | 11/2012 | Rothbaum et al. | |
| D632,648 S | 2/2011 | Yang | D671,106 S | 11/2012 | Rothbaum et al. | |
| D632,683 S | 2/2011 | Richardson et al. | D671,493 S * | 11/2012 | Hasbrook et al. | D13/119 |
| D632,684 S | 2/2011 | Richardson et al. | 8,321,619 B2 | 11/2012 | Kular et al. | |
| D632,685 S | 2/2011 | Richardson et al. | 8,328,008 B2 | 12/2012 | Diebel et al. | |
| D632,686 S | 2/2011 | Magness et al. | D674,394 S | 1/2013 | Kajimoto | |
| 7,889,489 B2 | 2/2011 | Richardson et al. | D675,603 S | 2/2013 | Melanson et al. | |
| 7,889,498 B2 * | 2/2011 | Diebel et al. | D676,032 S | 2/2013 | Stump et al. | |
| D634,704 S | 3/2011 | Tieleman et al. | D676,432 S * | 2/2013 | Hasbrook et al. | D14/250 |
| D634,741 S | 3/2011 | Richardson et al. | 8,367,235 B2 | 2/2013 | Huang | |
| 7,899,397 B2 | 3/2011 | Kumar | 8,380,264 B2 | 2/2013 | Hung et al. | |
| 7,907,394 B2 | 3/2011 | Richardson et al. | D677,249 S * | 3/2013 | Li et al. | D14/250 |
| D636,386 S | 4/2011 | Richardson et al. | D678,869 S | 3/2013 | Diebel | |
| D636,387 S | 4/2011 | Willes et al. | D679,271 S | 4/2013 | Liu | |
| 7,930,011 B2 | 4/2011 | Shi et al. | D679,684 S | 4/2013 | Baker et al. | |
| 7,933,122 B2 | 4/2011 | Richardson et al. | D682,196 S | 5/2013 | Leung | |
| D637,588 S | 5/2011 | Richardson et al. | 8,452,242 B2 | 5/2013 | Spencer, II | |
| D637,589 S | 5/2011 | Willes et al. | 8,457,701 B2 | 6/2013 | Diebel | |
| D637,590 S | 5/2011 | Michie et al. | D685,356 S | 7/2013 | Diebel | |
| D637,591 S | 5/2011 | Willes et al. | D686,152 S | 7/2013 | Lee et al. | |
| D637,592 S | 5/2011 | Magness et al. | D686,606 S | 7/2013 | Hong | |
| D637,952 S | 5/2011 | Tan | 8,483,758 B2 * | 7/2013 | Huang | 455/557 |
| D638,005 S | 5/2011 | Richardson et al. | D687,426 S * | 8/2013 | Requa | D14/250 |
| D638,411 S | 5/2011 | Willes et al. | 8,499,933 B2 | 8/2013 | Ziemba | |
| D638,413 S | 5/2011 | Magness et al. | 8,505,718 B2 | 8/2013 | Griffin, Jr. et al. | |
| D638,414 S | 5/2011 | Magness et al. | 8,509,864 B1 | 8/2013 | Diebel | |
| D638,828 S | 5/2011 | Melanson et al. | 8,531,833 B2 * | 9/2013 | Diebel et al. | 361/679.56 |
| D638,829 S | 5/2011 | Melanson et al. | D691,990 S | 10/2013 | Rayner | |
| D638,830 S | 5/2011 | Magness et al. | 8,560,014 B1 | 10/2013 | Hu et al. | |
| D639,731 S | 6/2011 | Sun | D693,801 S | 11/2013 | Rayner | |
| D640,679 S | 6/2011 | Willes et al. | 8,579,172 B2 | 11/2013 | Monaco et al. | |
| D640,680 S | 6/2011 | Magness et al. | 2001/0054148 A1 | 12/2001 | Hoornaert et al. | |
| 7,957,524 B2 | 6/2011 | Chipping | 2002/0111189 A1 | 8/2002 | Chou | |
| D641,013 S | 7/2011 | Richardson et al. | 2002/0147035 A1 | 10/2002 | Su | |
| D641,014 S | 7/2011 | Smith et al. | 2002/0197965 A1 | 12/2002 | Peng | |
| D641,974 S | 7/2011 | Stampfli | 2003/0000984 A1 | 1/2003 | Vick, III | |
| D642,170 S | 7/2011 | Johnson et al. | 2003/0096642 A1 | 5/2003 | Bessa et al. | |
| D642,171 S | 7/2011 | Melanson et al. | 2003/0151890 A1 | 8/2003 | Huang et al. | |
| D642,558 S | 8/2011 | Magness et al. | 2003/0218445 A1 | 11/2003 | Behar | |
| D643,029 S | 8/2011 | Feng | 2003/0228866 A1 | 12/2003 | Pezeshki | |
| D643,424 S | 8/2011 | Richardson et al. | 2004/0096054 A1 | 5/2004 | Nuovo | |
| D644,215 S | 8/2011 | Dong | 2004/0097256 A1 | 5/2004 | Kujawski | |
| D644,216 S | 8/2011 | Richardson et al. | 2004/0104268 A1 | 6/2004 | Bailey | |
| D644,219 S | 8/2011 | Sawada | 2005/0090301 A1 | 4/2005 | Lange et al. | |
| 7,988,010 B2 | 8/2011 | Yang et al. | 2005/0093510 A1 | 5/2005 | Seil et al. | |
| D644,635 S | 9/2011 | Richardson et al. | 2005/0116684 A1 | 6/2005 | Kim | |
| D644,639 S | 9/2011 | Weller et al. | 2005/0231159 A1 | 10/2005 | Jones et al. | |
| D647,084 S | 10/2011 | Fathollahi | 2005/0247787 A1 | 11/2005 | Von Mueller et al. | |
| D647,108 S * | 10/2011 | Lee | 2005/0248312 A1 | 11/2005 | Cao et al. | |
| 8,028,794 B1 | 10/2011 | Freeman | 2005/0286212 A1 | 12/2005 | Brignone et al. | |
| 8,046,039 B2 | 10/2011 | Lee et al. | 2006/0010588 A1 | 1/2006 | Schuster et al. | |
| D648,714 S * | 11/2011 | Jones et al. | 2006/0052064 A1 | 3/2006 | Goradesky | |
| D648,715 S * | 11/2011 | Jones et al. | 2006/0058073 A1 | 3/2006 | Kim | |
| D648,716 S * | 11/2011 | Jones et al. | 2006/0063569 A1 | 3/2006 | Jacobs et al. | |
| D649,143 S * | 11/2011 | Jones et al. | 2006/0099999 A1 | 5/2006 | Park | |
| D649,539 S | 11/2011 | Hong | 2006/0105722 A1 | 5/2006 | Kumar | |
| D650,810 S | 12/2011 | Lemelman et al. | 2006/0105824 A1 | 5/2006 | Kim et al. | |
| D653,202 S * | 1/2012 | Hasbrook et al. | 2006/0125445 A1 | 6/2006 | Cao et al. | |
| D654,069 S | 2/2012 | Kwon | 2006/0205447 A1 | 9/2006 | Park et al. | |
| D654,483 S | 2/2012 | Richardson et al. | 2006/0255493 A1 | 11/2006 | Fouladpour | |
| D654,931 S | 2/2012 | Lemelman et al. | 2007/0004450 A1 | 1/2007 | Parikh | |
| D655,281 S | 3/2012 | Turocy | 2007/0093140 A1 | 4/2007 | Begic et al. | |
| D655,699 S | 3/2012 | Bau | 2007/0142097 A1 | 6/2007 | Hamasaki et al. | |
| D656,495 S | 3/2012 | Andre et al. | 2007/0152633 A1 | 7/2007 | Lee | |
| D658,165 S | 4/2012 | Freeman | 2007/0161404 A1 | 7/2007 | Yasujima et al. | |
| 8,150,485 B2 | 4/2012 | Lee | 2007/0167190 A1 | 7/2007 | Moosavi et al. | |
| 8,167,127 B2 | 5/2012 | Martin et al. | 2007/0225031 A1 | 9/2007 | Bodkin et al. | |
| D662,923 S | 7/2012 | Piedra et al. | 2007/0236180 A1 | 10/2007 | Rodgers | |
| D663,263 S | 7/2012 | Gupta et al. | 2007/0261978 A1 | 11/2007 | Sanderson | |
| D663,319 S | 7/2012 | Chen et al. | 2007/0297149 A1 | 12/2007 | Richardson et al. | |

| | | | | |
|--------------|-----|---------|---------------------|----------|
| 2008/0007214 | A1 | 1/2008 | Cheng | |
| 2008/0026803 | A1 | 1/2008 | Demuynck | |
| 2008/0032758 | A1 | 2/2008 | Rostami | |
| 2008/0053770 | A1 | 3/2008 | Tynyk | |
| 2008/0096620 | A1 | 4/2008 | Lee et al. | |
| 2008/0108395 | A1 | 5/2008 | Lee et al. | |
| 2008/0119244 | A1 | 5/2008 | Malhotra | |
| 2008/0123287 | A1 | 5/2008 | Rossell et al. | |
| 2008/0132289 | A1 | 6/2008 | Wood et al. | |
| 2009/0017883 | A1 | 1/2009 | Lin | |
| 2009/0051319 | A1 | 2/2009 | Fang et al. | |
| 2009/0069050 | A1 | 3/2009 | Jain et al. | |
| 2009/0073650 | A1 | 3/2009 | Huang et al. | |
| 2009/0108800 | A1 | 4/2009 | Woud | |
| 2009/0111543 | A1 | 4/2009 | Tai et al. | |
| 2009/0114556 | A1 | 5/2009 | Tai et al. | |
| 2009/0117955 | A1 | 5/2009 | Lo | |
| 2009/0128092 | A1 | 5/2009 | Woud | |
| 2009/0143104 | A1 | 6/2009 | Loh et al. | |
| 2009/0144456 | A1 | 6/2009 | Gelf et al. | |
| 2009/0146898 | A1 | 6/2009 | Akiho et al. | |
| 2009/0160399 | A1* | 6/2009 | Woud | 320/115 |
| 2009/0160400 | A1* | 6/2009 | Woud | 320/115 |
| 2009/0181729 | A1 | 7/2009 | Griffin, Jr. et al. | |
| 2009/0186264 | A1* | 7/2009 | Huang | 429/96 |
| 2009/0205983 | A1 | 8/2009 | Estlander | |
| 2009/0247244 | A1 | 10/2009 | Mittleman et al. | |
| 2009/0284216 | A1 | 11/2009 | Bessa et al. | |
| 2009/0301289 | A1 | 12/2009 | Gynes | |
| 2009/0314400 | A1 | 12/2009 | Liu | |
| 2009/0325657 | A1 | 12/2009 | Ramsdell et al. | |
| 2010/0013431 | A1* | 1/2010 | Liu | 320/108 |
| 2010/0022277 | A1 | 1/2010 | An et al. | |
| 2010/0026589 | A1 | 2/2010 | Dou et al. | |
| 2010/0048267 | A1 | 2/2010 | Lin | |
| 2010/0064883 | A1 | 3/2010 | Gynes | |
| 2010/0078343 | A1 | 4/2010 | Hoellwarth et al. | |
| 2010/0088439 | A1 | 4/2010 | Ang et al. | |
| 2010/0093412 | A1 | 4/2010 | Serra et al. | |
| 2010/0096284 | A1 | 4/2010 | Bau | |
| 2010/0113106 | A1 | 5/2010 | Supran | |
| 2010/0124040 | A1* | 5/2010 | Diebel et al. | 361/816 |
| 2010/0195279 | A1 | 8/2010 | Michael | |
| 2010/0200456 | A1 | 8/2010 | Parkinson | |
| 2010/0203931 | A1 | 8/2010 | Hynecek et al. | |
| 2010/0243516 | A1 | 9/2010 | Martin et al. | |
| 2010/0302716 | A1 | 12/2010 | Gandhi | |
| 2010/0328203 | A1 | 12/2010 | Hsu | |
| 2011/0049005 | A1 | 3/2011 | Wilson et al. | |
| 2011/0055447 | A1 | 3/2011 | Costa | |
| 2011/0084081 | A1 | 4/2011 | Chung et al. | |
| 2011/0090626 | A1 | 4/2011 | Hoellwarth et al. | |
| 2011/0117974 | A1 | 5/2011 | Spitalnik et al. | |
| 2011/0136555 | A1 | 6/2011 | Ramies et al. | |
| 2011/0159324 | A1* | 6/2011 | Huang et al. | 429/7 |
| 2011/0199041 | A1 | 8/2011 | Yang | |
| 2011/0253569 | A1 | 10/2011 | Lord | |
| 2011/0287726 | A1 | 11/2011 | Huang | |
| 2011/0297578 | A1 | 12/2011 | Stiehl et al. | |
| 2012/0013295 | A1 | 1/2012 | Yeh | |
| 2012/0071214 | A1 | 3/2012 | Ash, Jr. et al. | |
| 2012/0088555 | A1 | 4/2012 | Hu | |
| 2012/0122520 | A1 | 5/2012 | Phillips | |
| 2012/0161696 | A1 | 6/2012 | Cook et al. | |
| 2012/0209745 | A1 | 8/2012 | Spencer, II | |
| 2012/0282977 | A1 | 11/2012 | Haleluk | |
| 2012/0303520 | A1 | 11/2012 | Huang | |
| 2013/0045775 | A1 | 2/2013 | Heywood | |
| 2013/0084799 | A1 | 4/2013 | Marholev et al. | |
| 2013/0189923 | A1 | 7/2013 | Lewin | |
| 2013/0273983 | A1 | 10/2013 | Hsu | |
| 2013/0314880 | A1 | 11/2013 | Sun et al. | |
| 2014/0065948 | A1 | 3/2014 | Huang | |
| 2014/0165379 | A1* | 6/2014 | Diebel et al. | 29/592.1 |

FOREIGN PATENT DOCUMENTS

| | | |
|----|-----------------|---------|
| CN | 201252577 | 6/2009 |
| CN | 202364273 | 8/2012 |
| CN | 202535667 | 11/2012 |
| CN | 302573150 | 9/2013 |
| JP | 8-18637 | 1/1996 |
| JP | 2000-175720 | 6/2000 |
| KR | 10-20050027961 | 3/2005 |
| KR | 20-2010-0005030 | 5/2010 |
| KR | 10-2010-0132724 | 12/2010 |
| KR | 10-2011-0005507 | 1/2011 |
| TW | D150044 | 11/2012 |
| TW | D156538 | 10/2013 |
| WO | WO 95/15619 | 6/1995 |
| WO | WO 97/33497 | 9/1997 |

OTHER PUBLICATIONS

“Sandberg BatteryCase for iPhone 4/4S delivers more bang for your buck” Published on Mar. 15, 2013 [online]. [retrieved on Dec. 9, 2013] Gizmag.com [online], Retrieved from the Internet: <<http://www.gizmag.com/sanberg-battery-case-iphone/21839/>>.*

“Incase Power Slider battery doubles as a case” Published on Nov. 19, 2008 [online]. [retrieved on Dec. 9, 2013] iPhone Buzz.com [online], Retrieved from the Internet: <<http://www.iphonebuzz.com/incase-power-slider-battery-doubles-as-a-case-195224.php>>.*

“Incipio offGRID Battery Case for iPhone 5/5s” Published on Oct. 9, 2013 [online]. [retrieved on Dec. 9, 2013] iLounge.com [online], Retrieved from the Internet: <<http://www.iphonebuzz.com/incase-power-slider-battery-doubles-as-a-case-195224.php>>.*

“Mophie Juice Pack Plus for iPhone 5” Published on May 21, 2013 [online]. [retrieved on Dec. 9, 2013] iLounge.com [online], Retrieved from the Internet: <<http://www.ilounge.com/index.php/reviews/entry/mophie-juice-pack-plus-for-iphone-5/>>.*

“RND Power Solutions Sync & Charge Dock with Lightning Connector” Published on Nov. 18, 2013 [online]. [retrieved on Dec. 9, 2013] iLounge.com [online], Retrieved from the Internet: <<http://www.ilounge.com/index.php/reviews/entry/tyIt-energi-sl>>.*

“Incipio offGRID Battery Case for iPhone 5/5s” Published on Oct. 9, 2013 [online]. [retrieved on Dec. 9, 2013] iLounge.com [online], Retrieved from the Internet: <<http://www.ilounge.com/index.php/reviews/entry/incipio-offgrid-battery-case-for-iphone-5-5s/>>.*

International Search Report and Written Opinion of the International Searching Authority for PCT/US2011/037244, dated Jul. 19, 2011.

International Preliminary Report on Patentability for PCT/US2011/037244, dated Nov. 29, 2012.

International Search Report and Written Opinion of the International Searching Authority for PCT/US2011/037249, dated Jul. 13, 2011.

International Preliminary Report on Patentability for PCT/US2011/037249, dated Nov. 29, 2012.

International Search Report and Written Opinion of the International Searching Authority for PCT/US2011/037254, dated Jul. 13, 2011.

International Preliminary Report on Patentability for PCT/US2011/037254, dated Nov. 29, 2012.

International Search Report and Written Opinion of the International Searching Authority for PCT/US2011/037257, dated Sep. 22, 2011.

International Preliminary Report on Patentability for PCT/US2011/037257, dated Nov. 29, 2012.

International Search Report and Written Opinion of the International Searching Authority for PCT/US2012/041768, dated Feb. 27, 2013.

International Preliminary Report on Patentability for PCT/US2012/041768, dated Dec. 27, 2013.

International Search Report and Written Opinion of the International Searching Authority for PCT/US2013/057276, dated Dec. 10, 2013.

Mophie Pulse for iPod Touch 4G, http://www.mophie.com/pulse-iPod-Touch-4th-Gen-vibrating-gaming-case-p/2015_PUL-T4-GRY.htm.

Jeremy Horwitz, “Kensington Mini Battery Pack and Charger for iPhone and iPod,” dated May 16, 2008, <http://www.ilounge.com/index.php/reviews/entry/kensington-mini-battery-pack-and-charger-for-iphone-and-ipod/>.

- Kensington Mini Battery Pack and Charger for iPhone and iPod, dated Sep. 30, 2008, 1 page.
- Sven Rafferty, “Mybat External Battery for iPhone and iPod,” dated May 18, 2008, <http://svenontech.com/reviews/?p=74>.
- Dave Rees, “Richard Solo Backup Battery for iPhone / iPod Review,” dated Jun. 16, 2008, http://the-gadgeteer.com/2008/06/16/richard_solo_backup_battery_for_iphone_ipod/.
- Devin Coldewey, “Combination iPhone battery pack and flash from FastMac,” dated Nov. 4, 2008, <http://crunchgear.com/2008/11/04/combination-iphone-battery-pack-and-flash-from-fastmac/>.
- “Cheap DIY iPhone External Battery,” dated Jul. 22, 2008, <http://fastdad.wordpress.com/2008/07/22/cheap-diy-iphone-external-battery/>.
- Jeremy Horwitz, “iLuv i603 / i604 Rechargeable Lithium Polymer Batteries with Silicone Skin,” dated Jun. 27, 2006, <http://www.ilounge.com/index.php/reviews/entry/iluv-i603-rechargeable-lithium-polymer-battery-with-silicone-skin/>.
- Julie Strietelmeier, “Seidio INNODock Desktop Cradle for Treo 650,” dated Jul. 28, 2005, http://the-gadgeteer.com/2005/07/28/seidio_innodock_desktop_cradle_for_treo_650/.
- Brian Nyhuis, “Mophie Juice Pack Battery Case for Samsung Galaxy S III Review,” dated Nov. 28, 2012, http://www.legitreviews.com/mophie-juice-pack-battery-case-for-samsung-galaxy-s-iii-review_2084.
- “PowerSkin Samsung Galaxy S3 Case with Backup Battery,” dated Aug. 19, 2012, <http://gadgetsin.com/powerskin-samsung-galaxy-s3-case-with-backup-battery.htm>.
- “iPhone 4 Case with Battery Pack,” dated Sep. 28, 2010, <http://gadgetsin.com/iphone-4-case-with-battery-pack.htm>.
- Jonathan Pena, “iPhone 5 Cases, Round 3,” dated Sep. 16, 2012, <http://www.technologytell.com/apple/103833/iphone-5-cases-round-3/>.
- Jeremy Horwitz, “Mophie Juice Pack for iPhone,” dated Dec. 7, 2007, <http://www.ilounge.com/index.php/reviews/entry/mophie-juice-pack-for-iphone/>.
- Dr. Macenstein, “Review: Mophie Juice Pack for iPhone,” dated Apr. 27, 2008, <http://macenstein.com/default/archives/1314>.
- Wayne Schulz, “iPhone Extended Battery Review—Mophie Juice Pack,” dated Jun. 17, 2008, <http://www.geardiary.com/2008/06/17/iphone-extended-battery-review-mophie-juice-pack/>.
- Mophie Juice Pack iPhone 1G Product—Figures 1-7—Retrieved from <http://www.mophie.com/products/juice-pack> on Apr. 10, 2009.
- Mophie Juice Pack iPhone 1G Product—Figure 8—Retrieved from <http://www.mophie.com/pages/information/> on Apr. 10, 2009.
- Mophie Juice Pack iPhone 1G Product—Figures 9-14—Retrieved from http://www.mophie.com/blogs/Juice_Pack_FAQ on Apr. 10, 2009.
- Mophie Juice Pack iPhone 1G Product—Figures 15-16—Retrieved from http://mophie.com/blogs/Juice_Pack_FAQ on Apr. 20, 2009. Figure 16 is dated May 1, 2008.
- Tomas Ratas, “Mophie Juice Pack—iPhone 3G,” dated Dec. 9, 2008, <http://www.testfreaks.com/blog/review/mophie-juice-pack-iphone-3g/>.
- Dr. Macenstein, “Review: Mophie Juice Pack 3G for iPhone,” dated Nov. 27, 2008, <http://macenstein.com/default/archives/1820>.
- Ewdison Then, “Mophie Juice Pack iPhone 3G Review,” dated Nov. 12, 2008, <http://www.slashgear.com/mophie-juice-pack-iphone-3g-review-1222446/>.
- Mophie Juice Pack iPhone 3G Product—Figures 1-8—Retrieved from <http://www.mophie.com/products/juice-pack-iphone-3g> on Apr. 10, 2009.
- Mophie Juice Pack iPhone 3G Product—Figures 9-10—Retrieved from <http://www.mophie.com/page/iphone-3g-details> on Apr. 10, 2009.
- Mophie Juice Pack iPhone 3G Product—Figures 11-14—Retrieved from http://mophie.com/blogs/Juice_Pack_3G_FAQ on Apr. 10, 2009.
- Mophie Juice Pack iPhone 3G Product—Figures 15-16—Retrieved from <http://mophie.com/blogs/press> on Apr. 20, 2009. Figure 15 is dated Aug. 4, 2008, and Figure 16 is dated Nov. 10, 2008.
- Mophie Juice Pack iPhone 3G User Manual—Retrieved from http://static3.shopify.com/s/files/1/0008/4942/assets/mophie_juice_pack_3G_manual_rl.pdf on Apr. 10, 2009.
- International Search Report and Written Opinion of the International Searching Authority for PCT/US2014/017781, dated Jun. 8, 2014.
- Panasonic Lithium Ion Batteries Technical Handbook, dated 2007.
- Chris Foresman, “Several Backup Batteries Can Extend Your Daily iPhone 3G Use,” dated Jul. 18, 2008, <http://arstechnica.com/apple/2008/07/several-backup-batteries-can-extend-your-daily-iphone-3g-use/>.
- Using Your Treo 650 Smartphone by palmOne, dated 2005.
- Lisa Gade, “Palm Treo 750,” dated Jan. 17, 2007, <http://www.mobiletechreview.com/phones/Treo-750.htm>.
- Incase Power Slider 3G for iPhone 3G Product Reference, alleged by Incase to be available on Nov. 28, 2008.
- iPhone User’s Guide, 2007.
- “Power Slider,” Web Archive Date Dec. 4, 2008, <https://web.archive.org/web/20081204105303/http://goincase.com/products/detail/power-slider-ec20003/>.
- Azadeh Ensha, “A Case for Filling the iPhone 3G’s Power Vacuum,” Dated Nov. 27, 2008.
- Joseph Flatley, “Incase Power Slider for iPhone 3G Doubles the Juice, Lets You Sync,” dated Nov. 17, 2008.
- Darren Quick, “Mophie Juice Pack for iPhone 3G now shipping,” dated Nov. 10, 2008, <http://www.gizmag.com/mophie-juice-pack-iphone-3g/10342/>.
- Otterbox Catalog, 2006.
- Jeremy Horowitz, “PhoneSuit MiLi Power Pack for iPhone,” Jan. 29, 2009, <http://www.ilounge.com/index.php/reviews/entry/phonesuit-mili-power-pack-for-iphone/>.
- Jeremy Horowitz, “FastMac TruePower iV Universal Battery Charger,” Dec. 11, 2008, <http://www.ilounge.com/index.php/reviews/entry/fastmac-truepower-iv-universal-battery-charger/>.
- Jeremy Horowitz, “Konnet PowerKZ Extended Power for iPhone,” Apr. 2, 2009, <http://www.ilounge.com/index.php/reviews/entry/konnet-powerkz-extended-power-for-iphone/>.
- “Test: Batterie iPhone SKPAD” with Machine English Translation, Feb. 2, 2009, <http://iphonesofa.com/2009/02/02/test-batterie-iphone-skpad>.
- Case-Ari, LLC v. mStation, Inc.*, Case No. 1:2010-CV-01874 in the United States District Court for the Northern District of Georgia, filed Jun. 17, 2010 (Docket).
- Daniel Huang v. GC Technology, LLC*, Case No. CV10-4705 CAS (VBKx) in the United States District Court for the Central District of California, filed Jun. 24, 2010 (Docket).
- Hali-Power, Inc. v. mStation Corp.*, Case No. 1:2010-CV-00773 in the United States District Court for the Northern District of New York, filed Jun. 30, 2010 (Docket).
- Mophie, Inc. v. Loza & Loza, LLP*, Case No. SACV11-00539 DOC (MLGx) in the United States District Court for the Central District of California, filed Apr. 7, 2011 (Docket).
- Mophie’s Complaint, filed Apr. 7, 2011 in *Mophie, Inc. v. Loza & Loza, LLP*, Case No. SACV11-00539 DOC (MLGx) in the United States District Court for the Central District of California.
- Mophie, Inc. v. Foreign Trade Corporation*, Case No. 8:12-CV-00292-JST-RNB in the United States District Court for the Central District of California, filed Feb. 24, 2012 (Docket).
- Mophie, Inc. v. Kdlinks Inc.*, Case No. 2:2012-CV-02639 in the United States District Court for the Central District of California, filed Mar. 27, 2012 (Docket).
- Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado, filed Jul. 27, 2012 (Docket).
- Mophie’s Answer, filed Oct. 15, 2012 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.
- Otter’s Motion for Summary Judgment of Infringement and Declaration in Support Thereof, filed May 13, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.
- Mophie’s Opposition to Motion for Summary Judgment of Infringement, filed Jun. 6, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.

Mophie's Claim Construction Brief, filed Jun. 14, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.

Otter's Claim Construction Brief, filed Jun. 14, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.

Mophie's Brief in Response to Otter's Claim Construction Brief, filed Jun. 24, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.

Otter's Rebuttal Brief For Construction of Claim Terms and Declaration, filed Jun. 24, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.

Otter's Reply in Support of Motion for Summary Judgment of Infringement, filed Jun. 24, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.

Joint Claim Construction Statement, filed Jun. 26, 2013 in *Otter Products, LLC v. Mophie, LLC*, Case No. 1:2012-CV-01969 in the United States District Court for the District of Colorado.

Incase Designs, Inc. v. Mophie, Inc., Case No. 3:2013-CV-00602 in the United States District Court for the Northern District of California, filed Feb. 12, 2013 (Docket).

Mophie's Amended Answer and Counterclaims, filed May 8, 2013 in *Incase Designs, Inc. v. Mophie, Inc.*, Case No. 3:2013-CV-00602 in the United States District Court for the Northern District of California.

Mophie's Opposition to Motion to Strike Amended Affirmative Defenses, Filed Jun. 12, 2013 in *Incase Designs, Inc. v. Mophie, Inc.*, Case No. 3:2013-CV-00602 in the United States District Court for the Northern District of California.

Mophie's Reply in Support of Motion to Stay and Supporting Declaration, filed Sep. 3, 2103 in *Incase Designs, Inc. v. Mophie, Inc.*, Case No. 3:2013-CV-00602 in the United States District Court for the Northern District of California.

Incase Designs, Inc. v. Mophie, Inc., Case No. 3:2013-CV-03356 in the United States District Court for the Northern District of California, filed Jul. 18, 2013 (Docket).

Incase Designs, Corp. v. Mophie, Inc., Case No. 3:2013-CV-04314 in the United States District Court for the Northern District of California, filed Sep. 18, 2013 (Docket).

Mophie Motion 1—To Be Accorded Benefit, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Declaration of John Feland, Ph.D, In Support of Mophie Motion 1 To Be Accorded Benefit, dated Nov. 20, 2013, in Patent Interference No. 105,946(RES).

Mophie Motion 2—For Judgment that Incase's Involved Claims Are Unpatentable, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Declaration of John Feland, Ph.D, In Support of Mophie Motion 2 for Judgement That Incase's Involved Claims Are Unpatentable, dated Nov. 20, 2013, in Patent Interference No. 105,946(RES).

Incise Motion 1—Motion for Benefit, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Incise Motion 2—Motion To Undesignate Claims, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Incise Motion 3—Motion for Judgment Based on Lack of Written Description, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Incise Motion 4—Motion for Unpatentability of Mophie Claims, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Declaration of Andrew Wolfe, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Declaration of Thomas Overthun, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Declaration of Gabriel Dan, filed Nov. 20, 2013 in Patent Interference No. 105,946(RES).

Mophie's Third Amended Complaint, filed Jun. 27, 2014, in *Mophie, Inc. v. Source Vista*, Case No. 8:13-CV-01321 in the United States District Court for the Central District of California.

Mophie's First Amended Complaint, filed Jun. 25, 2014, in *Mophie, Inc. v. UNU Electronics Inc.*, Case No. 8:13-CV-01705 in the United States District Court for the Central District of California.

UNU's Answer and Counterclaims, filed Jul. 10, 2014, in *Mophie, Inc. v. UNU Electronics Inc.*, Case No. 8:13-CV-01705 in the United States District Court for the Central District of California.

* cited by examiner

Primary Examiner — Adir Aronovich

Assistant Examiner — Ethiene Salgado-Rodriguez

(74) *Attorney, Agent, or Firm* — Knobbe Martens Olson & Bear LLP

(57)

CLAIM

The ornamental design for a thin banded snap battery case for a mobile device, as shown and described.

DESCRIPTION

FIG. 1 is a front and bottom perspective view of a thin banded snap battery case for a mobile device with the bottom portion connected;

FIG. 2 is a front and top perspective view thereof

FIG. 3 is a rear and bottom perspective view thereof;

FIG. 4 is a rear and top perspective view thereof;

FIG. 5 is a front elevational view thereof;

FIG. 6 is a rear elevational view thereof;

FIG. 7 is a left side elevational view thereof;

FIG. 8 is a right side elevational view thereof;

FIG. 9 is a top plan view thereof;

FIG. 10 is a bottom plan view thereof;

FIG. 11 is a front and bottom perspective view thereof containing a mobile device with the bottom portion connected;

FIG. 12 is a front and top perspective view thereof;

FIG. 13 is a rear and bottom perspective view thereof;

FIG. 14 is a rear and top perspective view thereof;

FIG. 15 is a front elevational view thereof;

FIG. 16 is a rear elevational view thereof;

FIG. 17 is a left side elevational view thereof;

FIG. 18 is a right side elevational view thereof;

FIG. 19 is a top plan view thereof;

FIG. 20 is a bottom plan view thereof;

FIG. 21 is a front and bottom perspective view thereof with the bottom portion disconnected;

FIG. 22 is a front and top perspective view thereof;

FIG. 23 is a rear and bottom perspective view thereof;

FIG. 24 is a rear and top perspective view thereof;

FIG. 25 is a front elevational view thereof;

FIG. 26 is a rear elevational view thereof;

FIG. 27 is a left side elevational view thereof;

FIG. 28 is a right side elevational view thereof;

FIG. 29 is a top plan view thereof; and,

FIG. 30 is a bottom plan view thereof.

The broken lines in FIGS. 11-20 showing a mobile device are shown to illustrate environment and form no part of the claimed design. The broken lines throughout the drawings at the bottom surface and internal charging port located on the opposite side are shown to illustrate portions of the thin banded snap battery case and form no part of the claimed design.

1 Claim, 27 Drawing Sheets

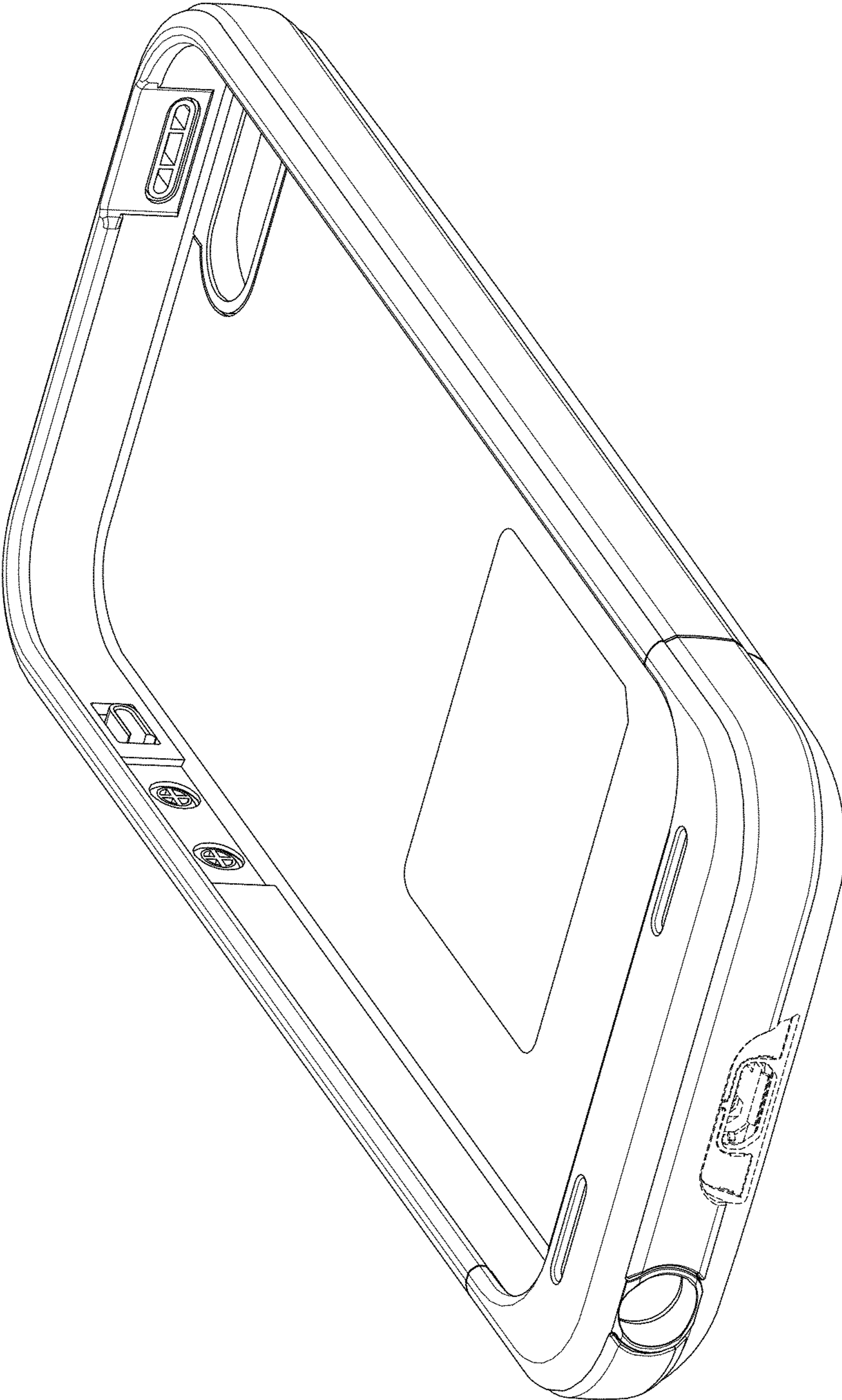


FIG. 1

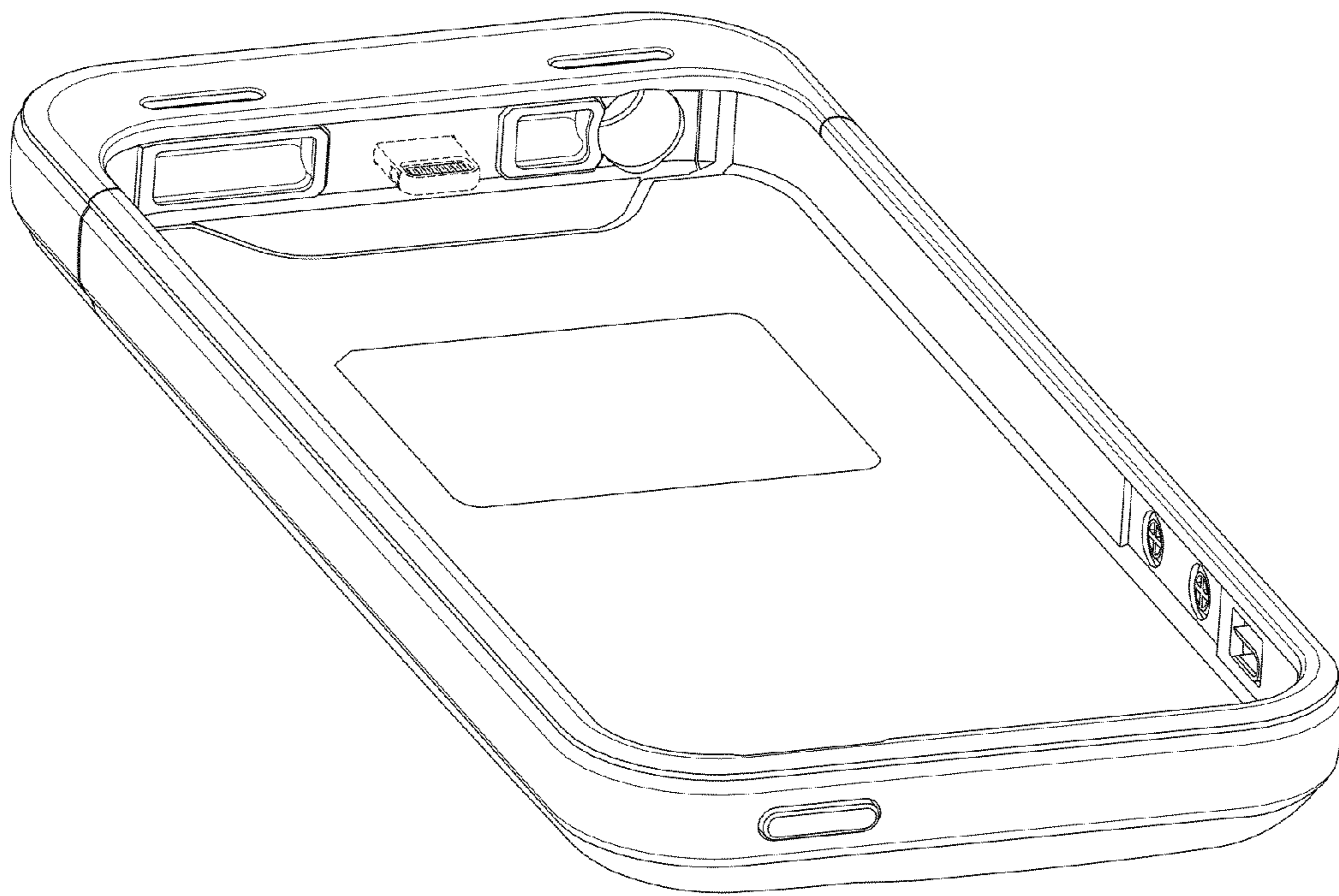


FIG. 2

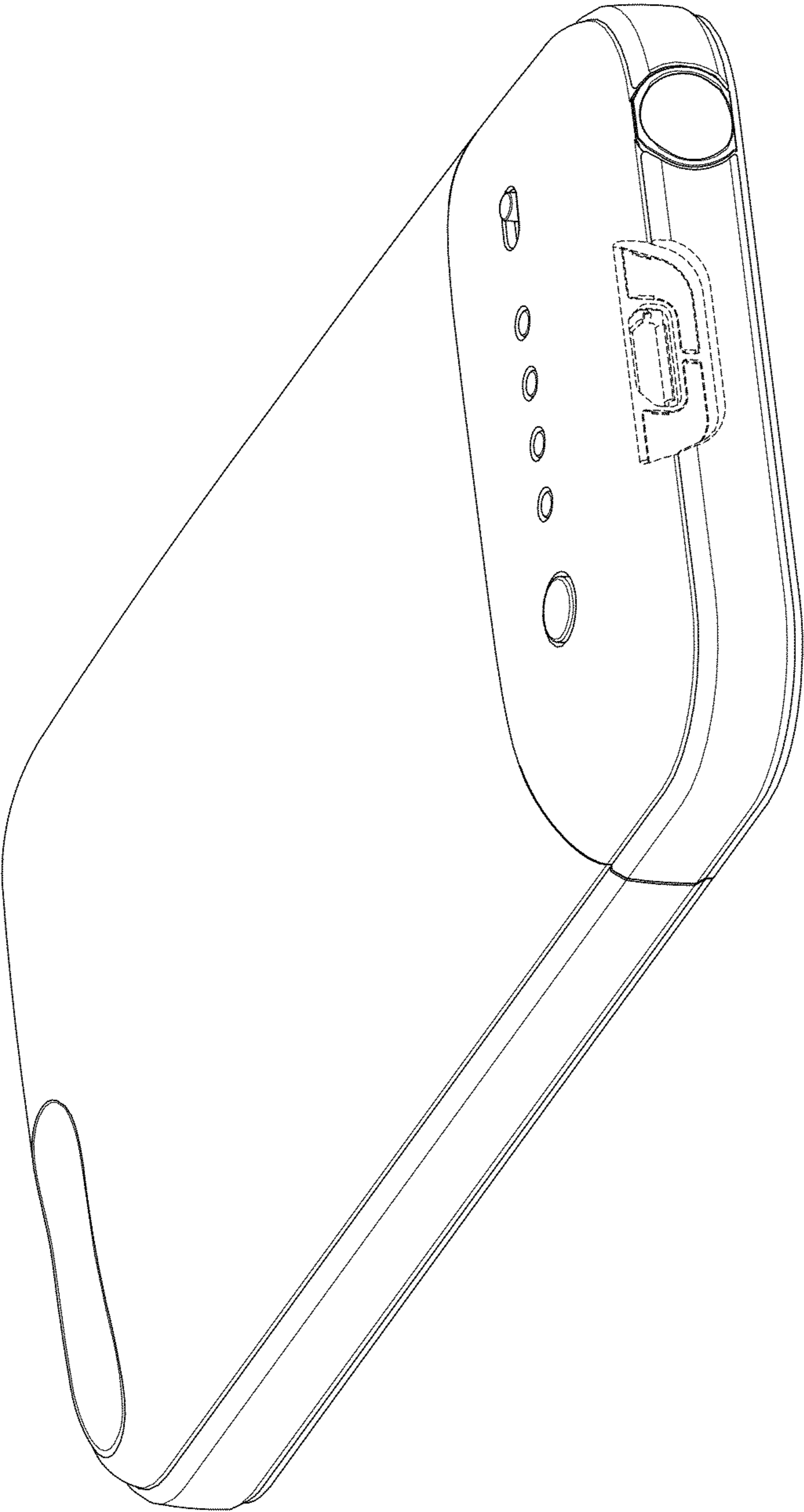


FIG. 3

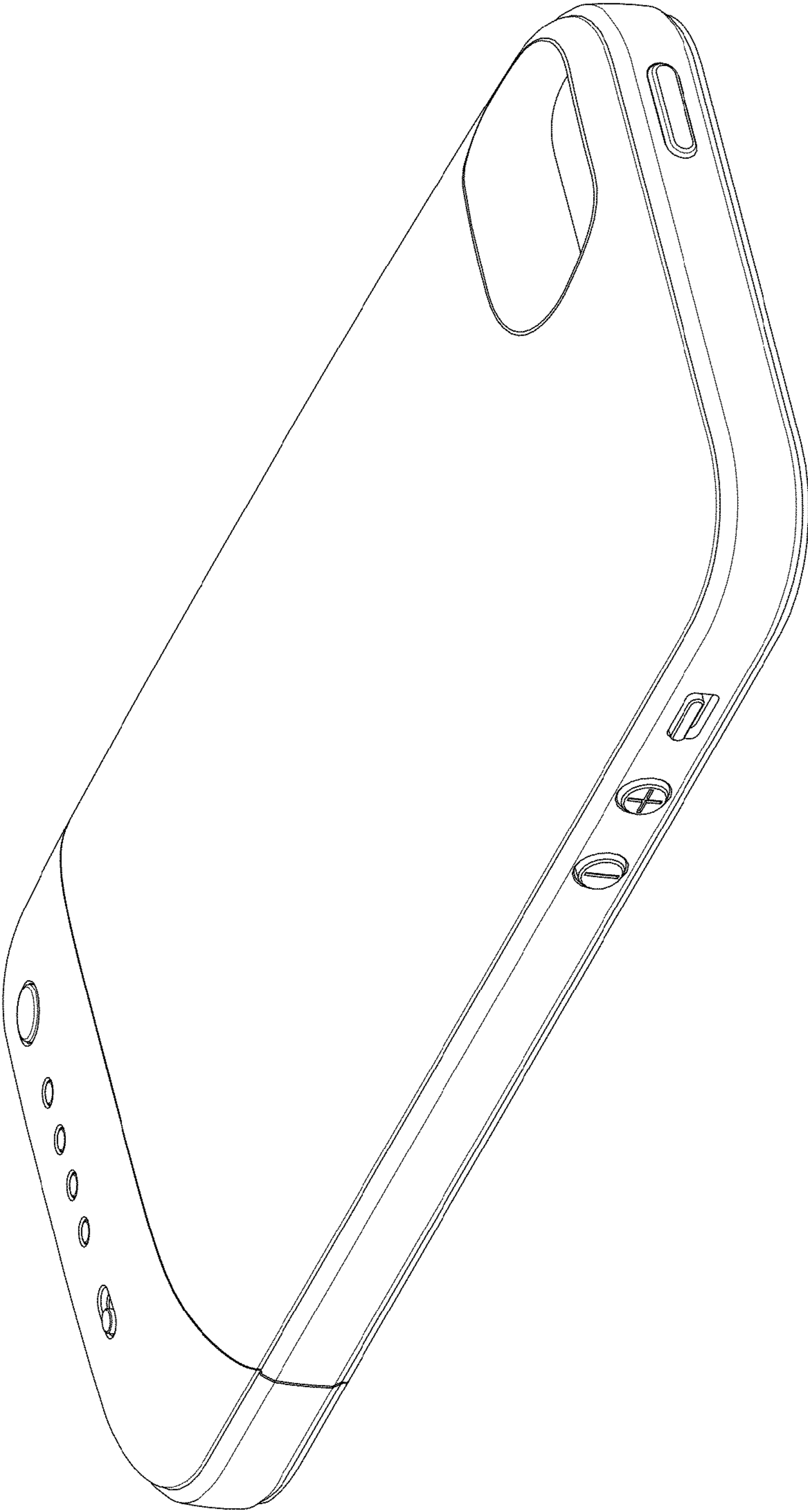


FIG. 4

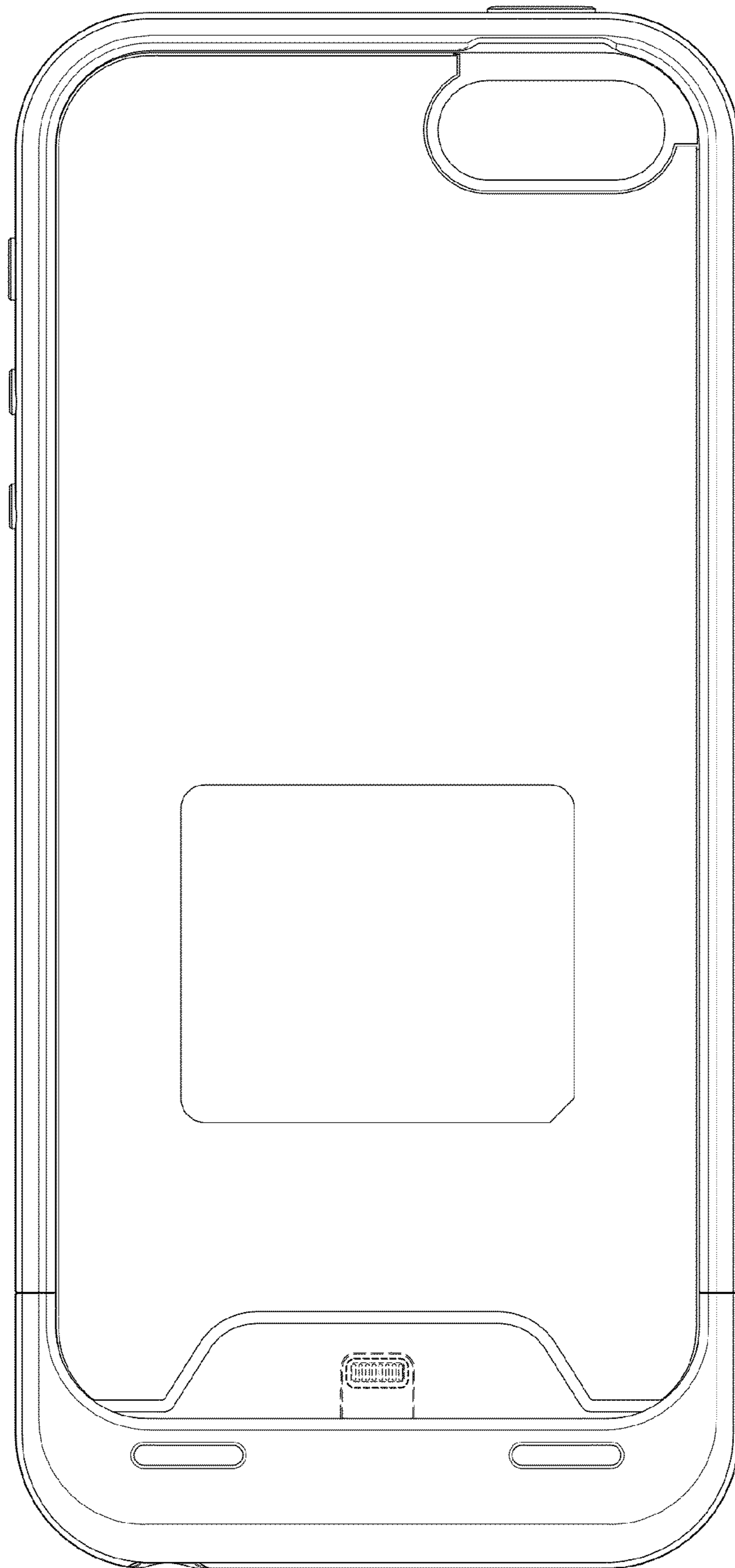


FIG. 5

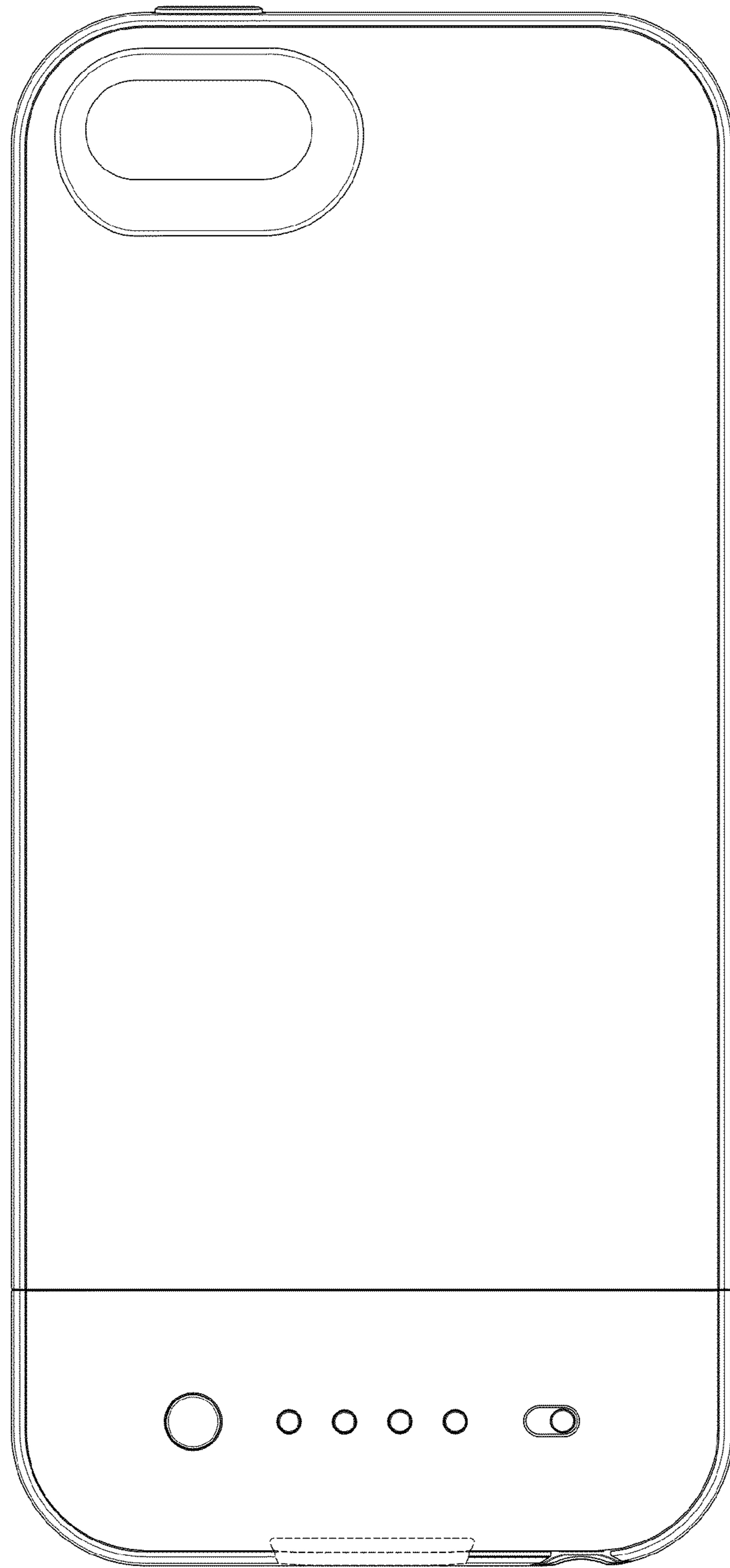


FIG. 6

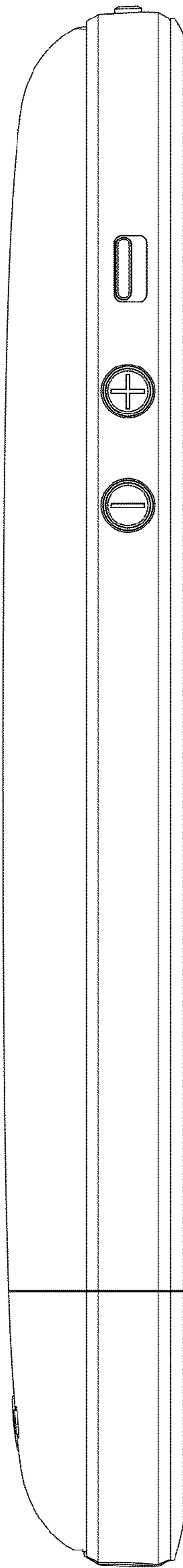


FIG. 7

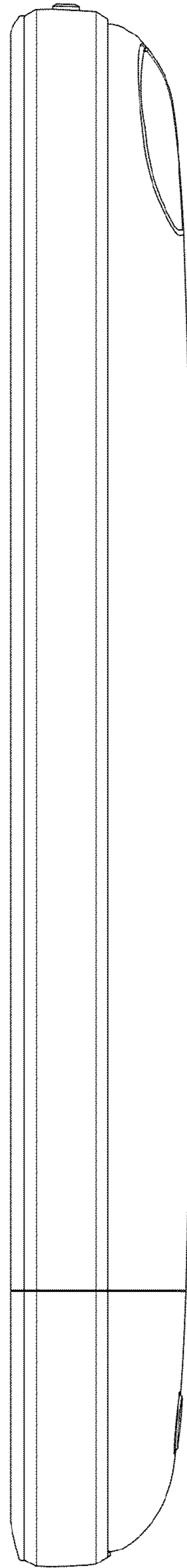


FIG. 8

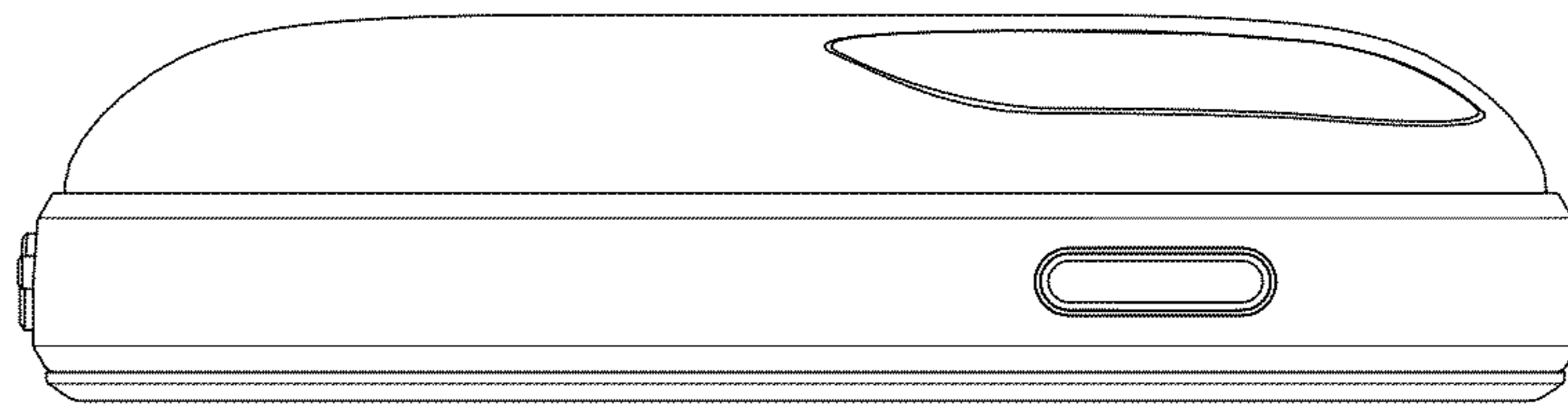


FIG. 9

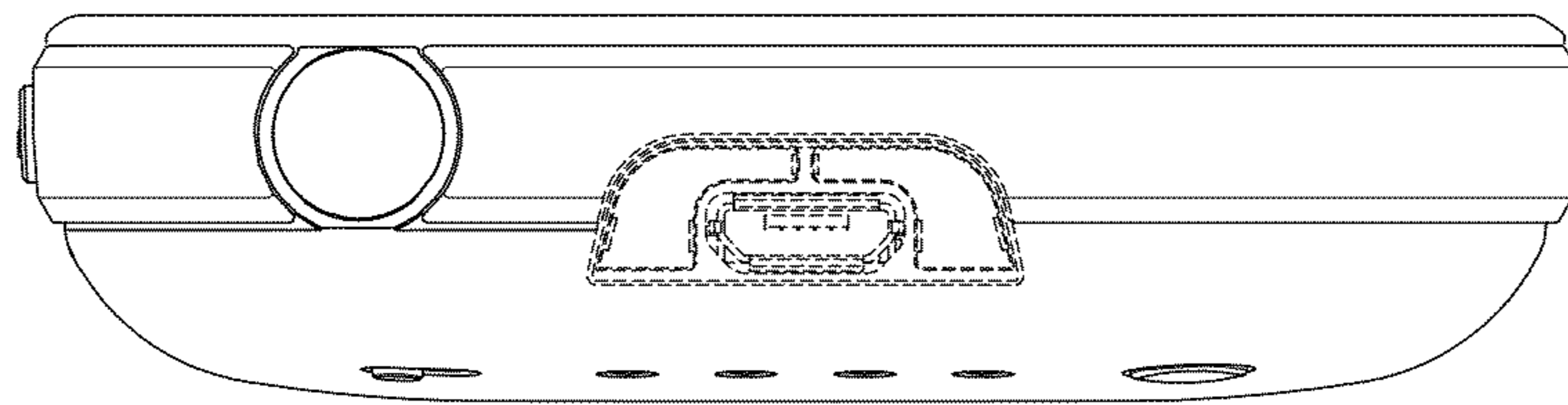


FIG. 10

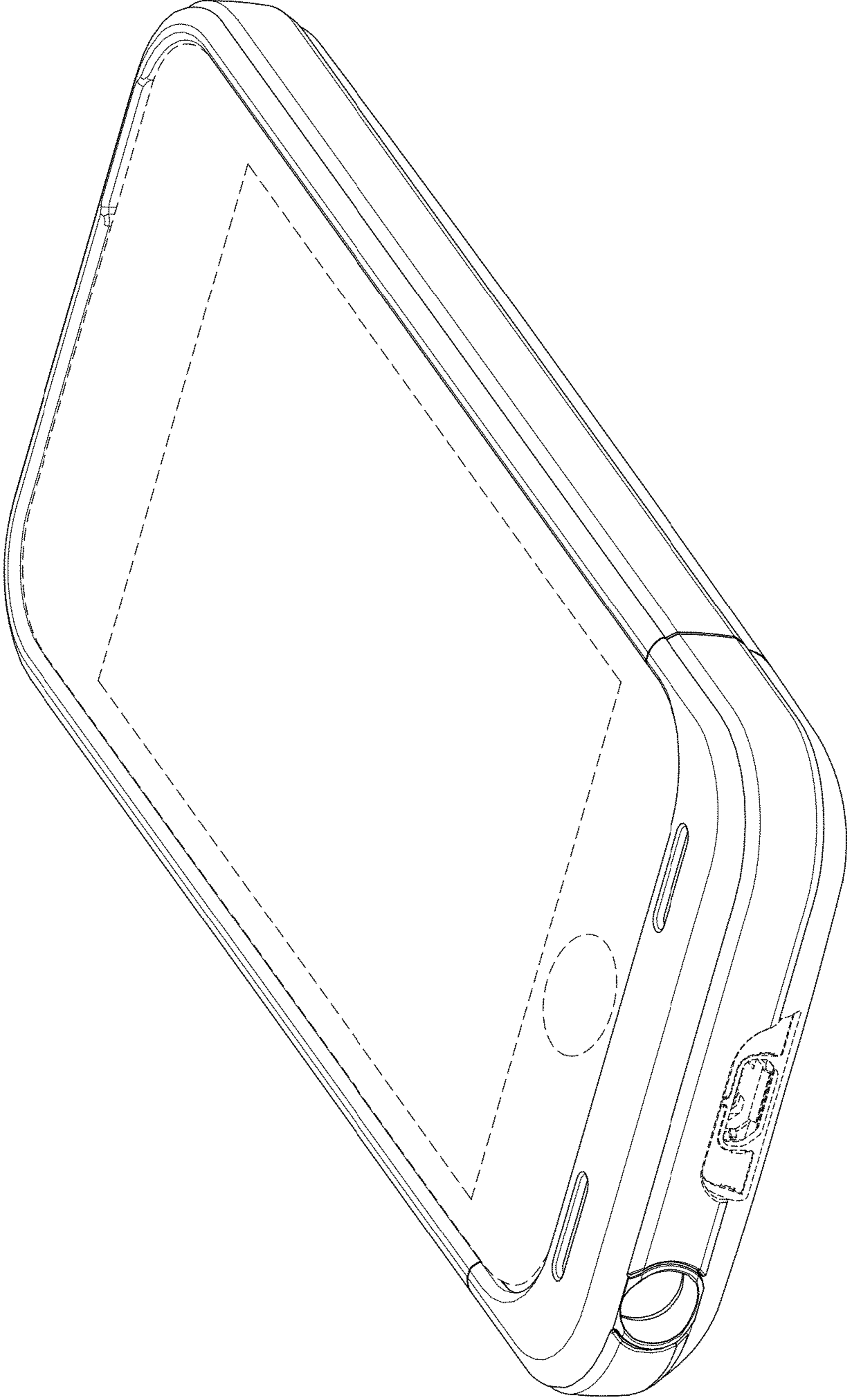


FIG. 11

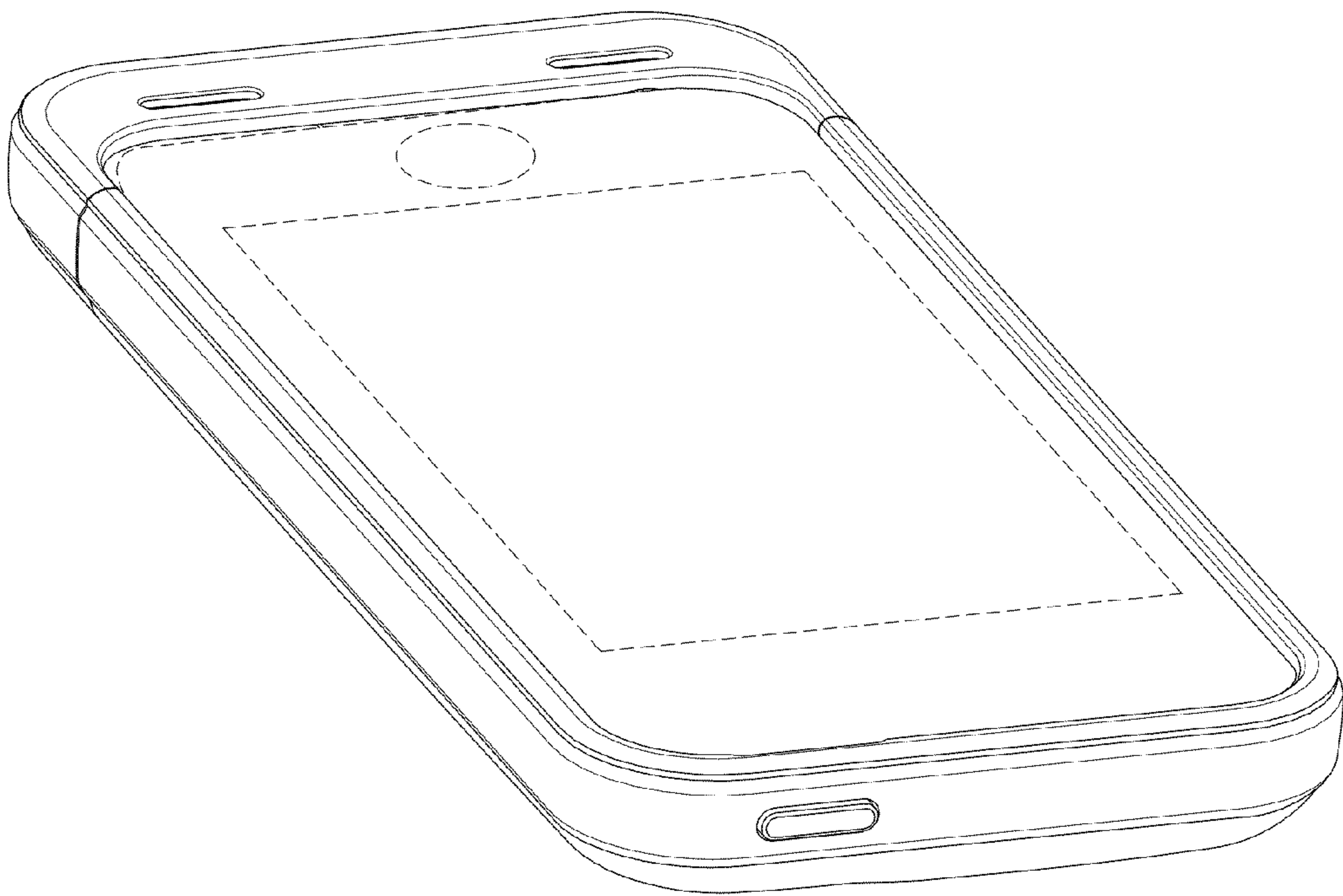


FIG. 12

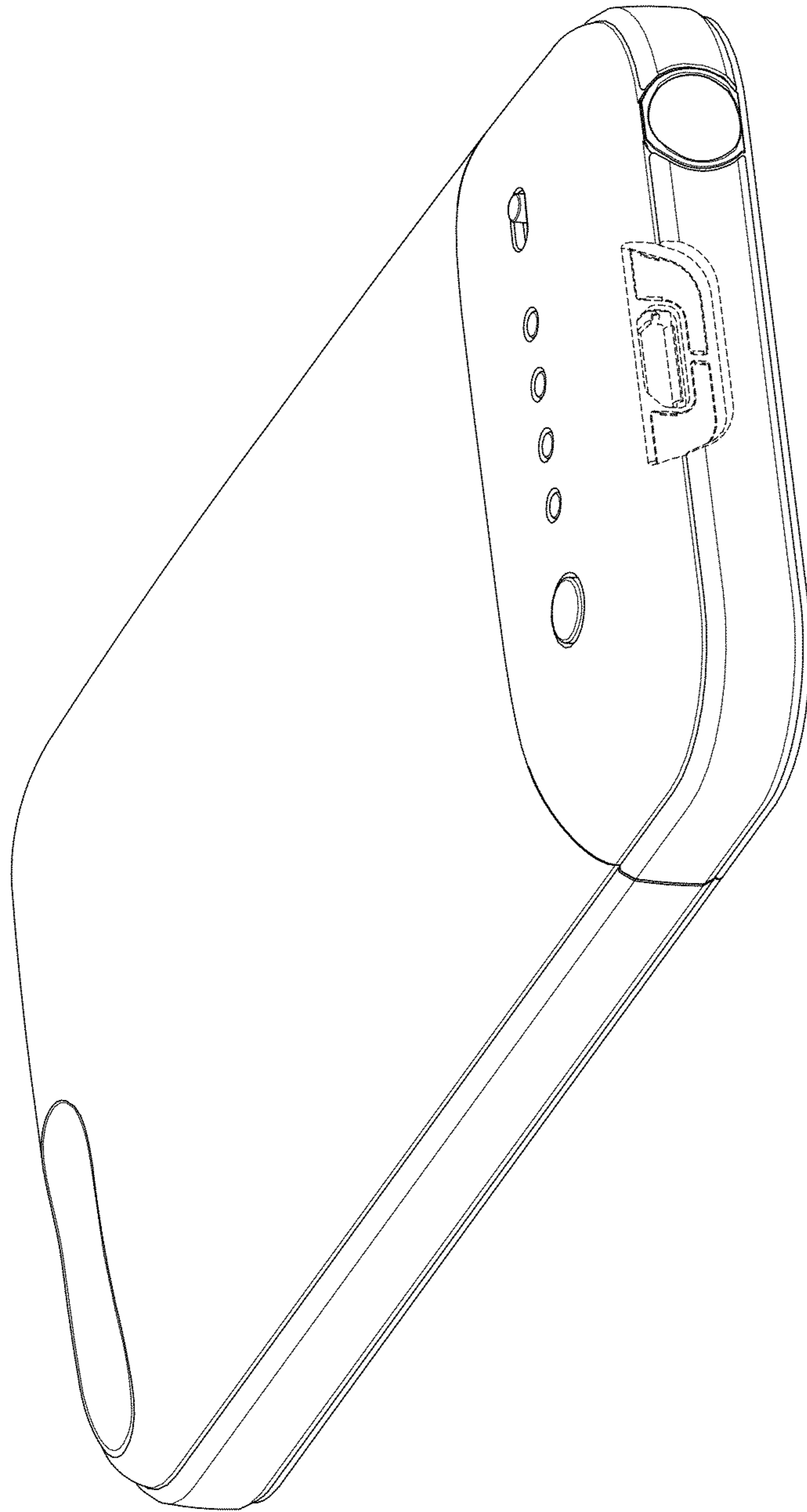


FIG. 13

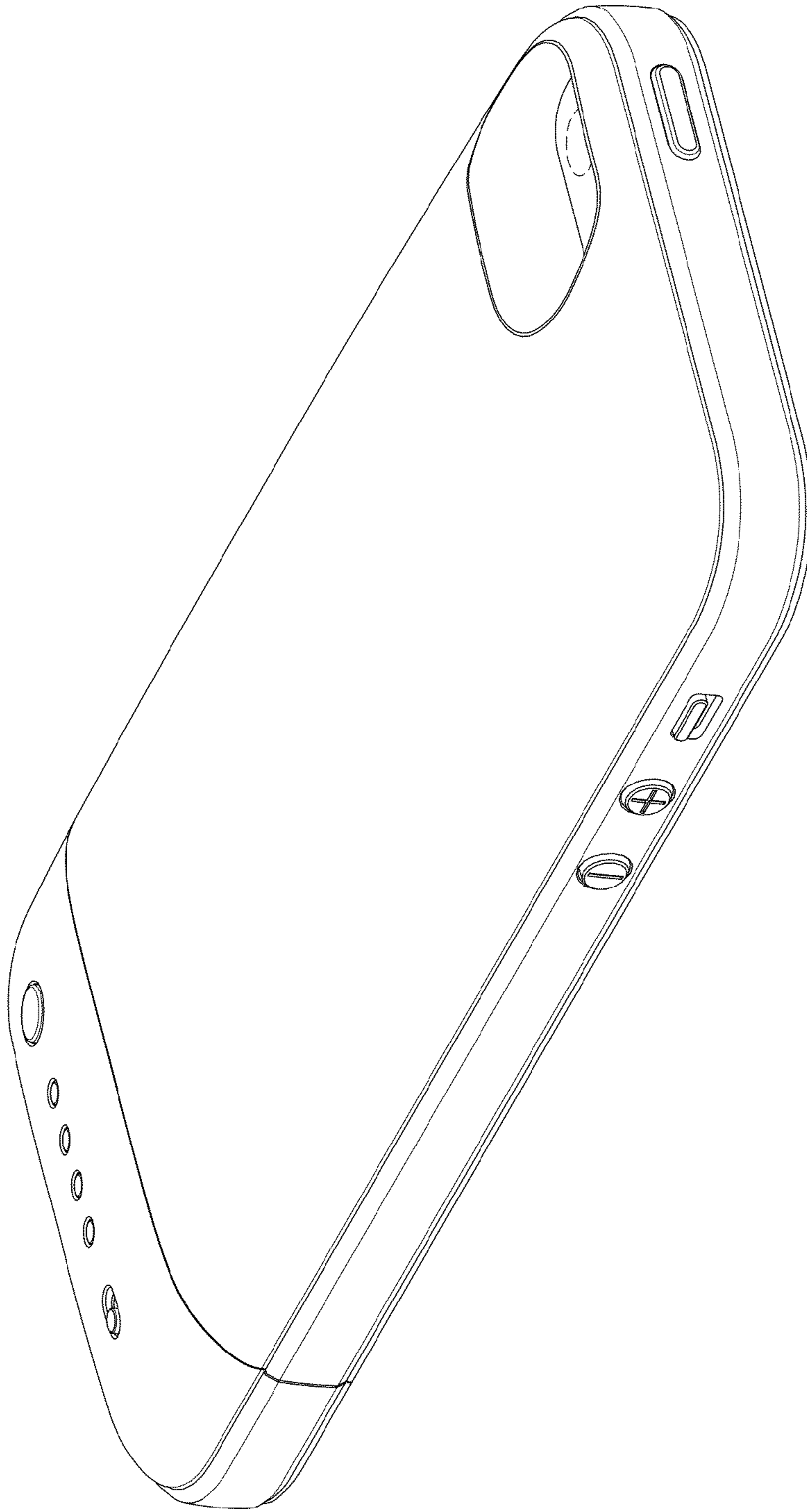


FIG. 14

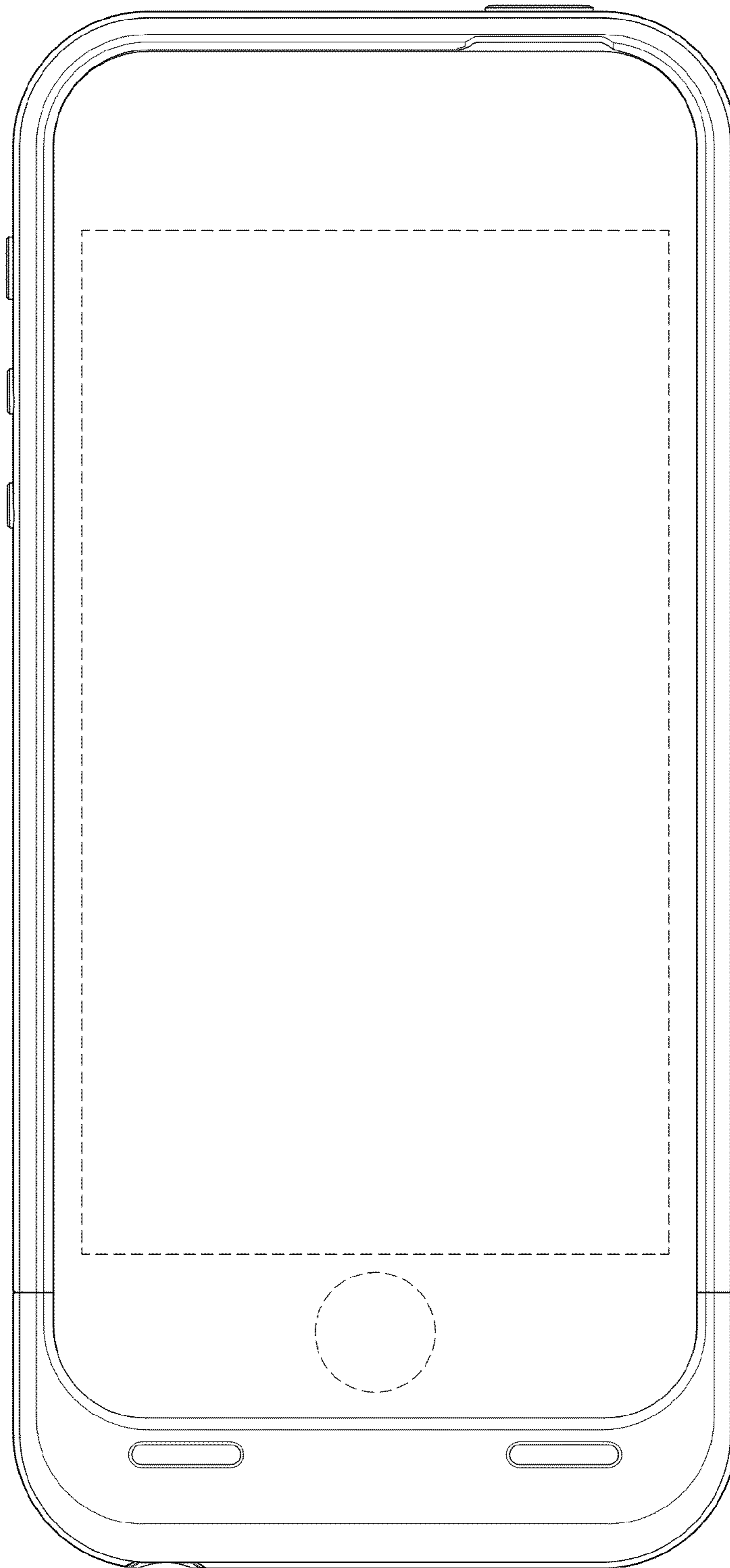


FIG. 15

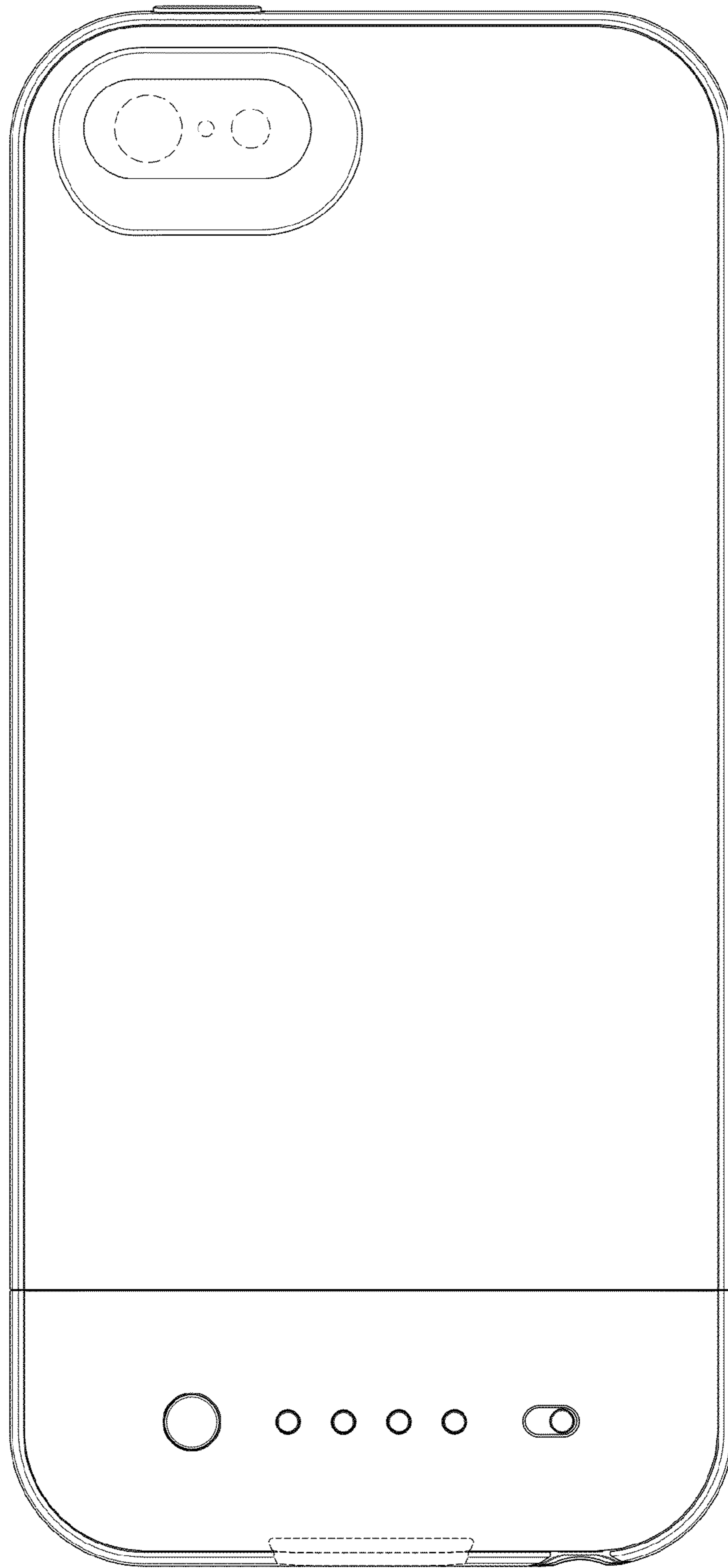


FIG. 16

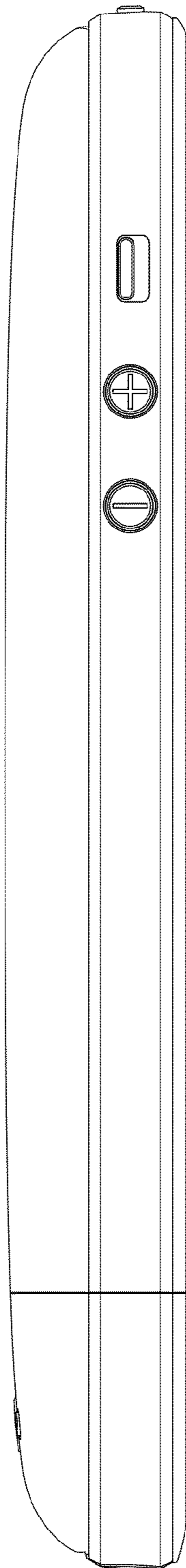


FIG. 17

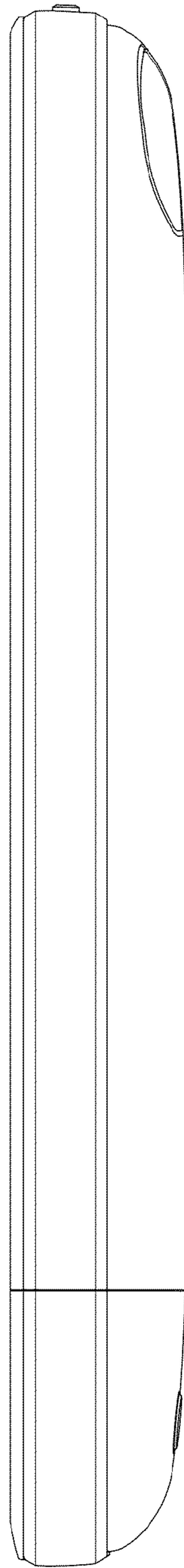


FIG. 18

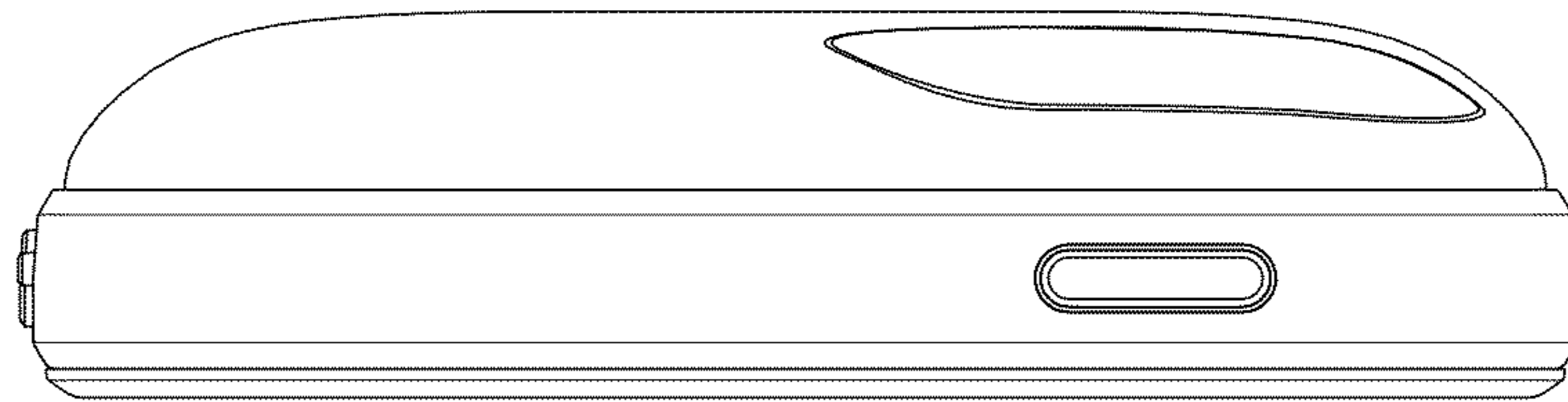


FIG. 19

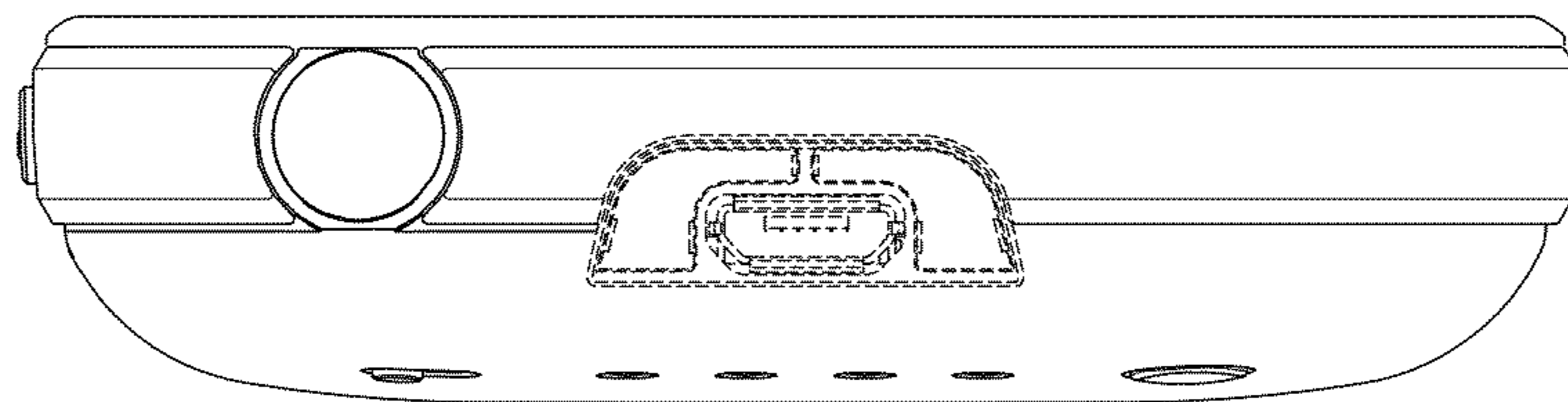


FIG. 20

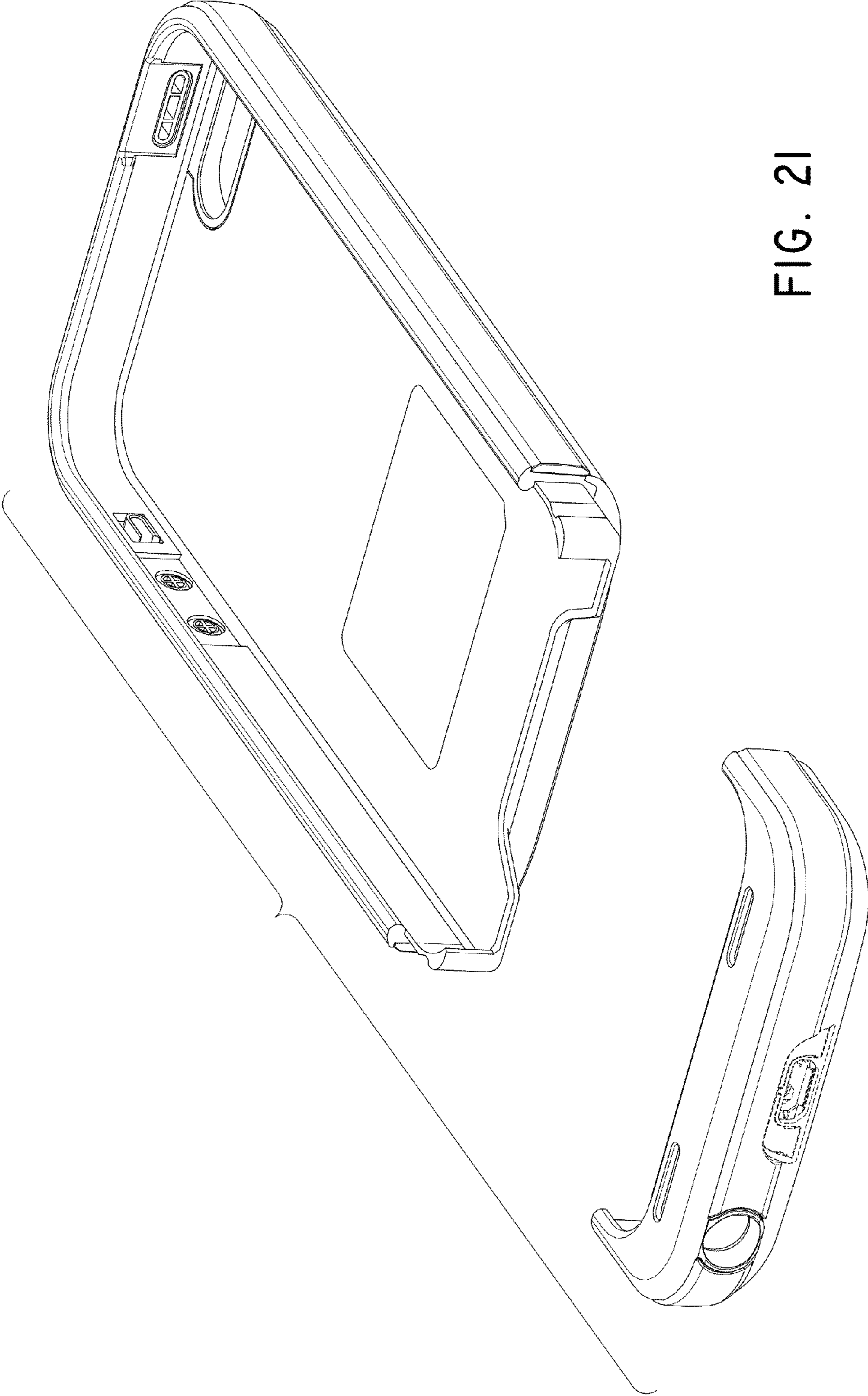


FIG. 21

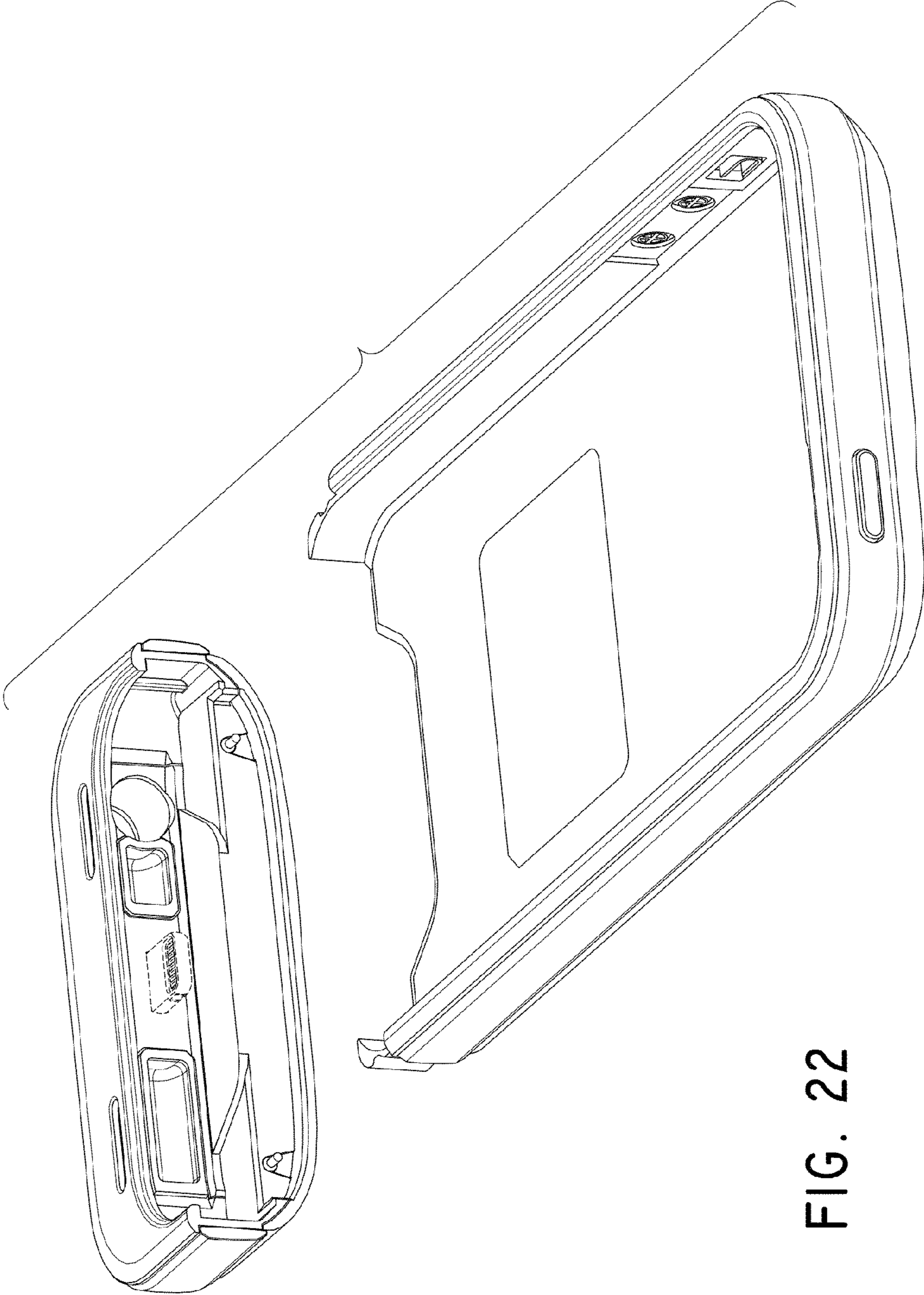


FIG. 22

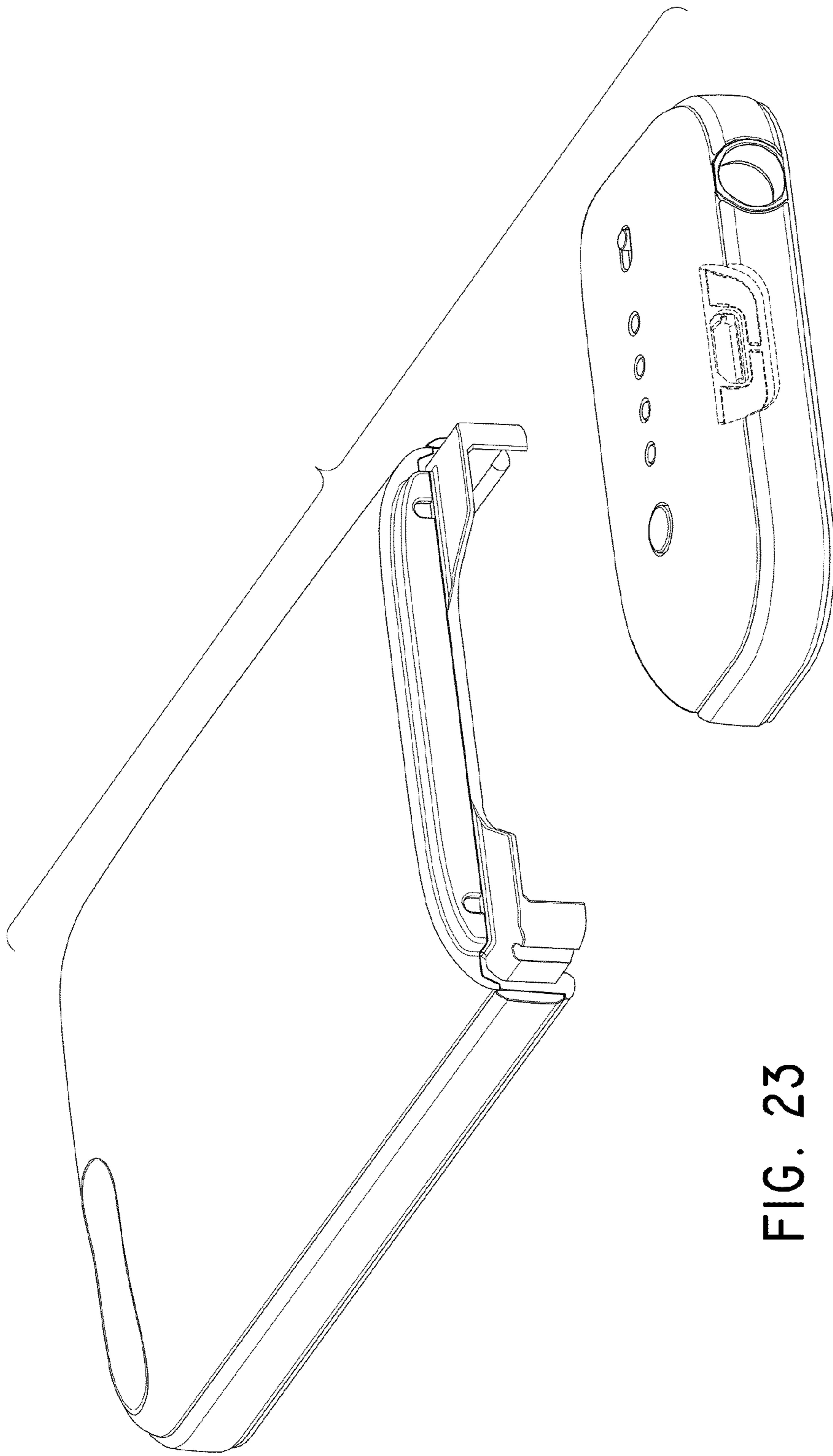


FIG. 23

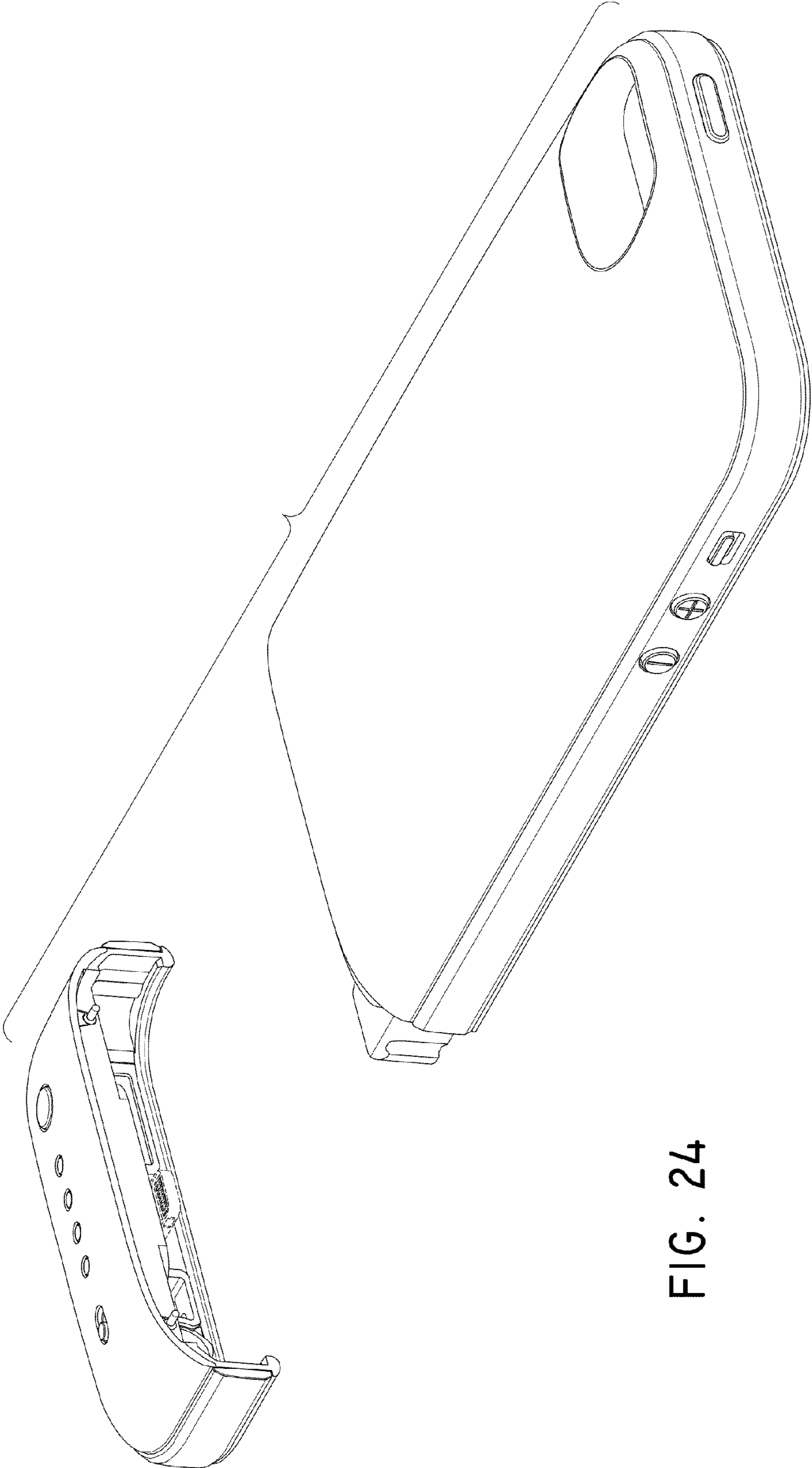


FIG. 24

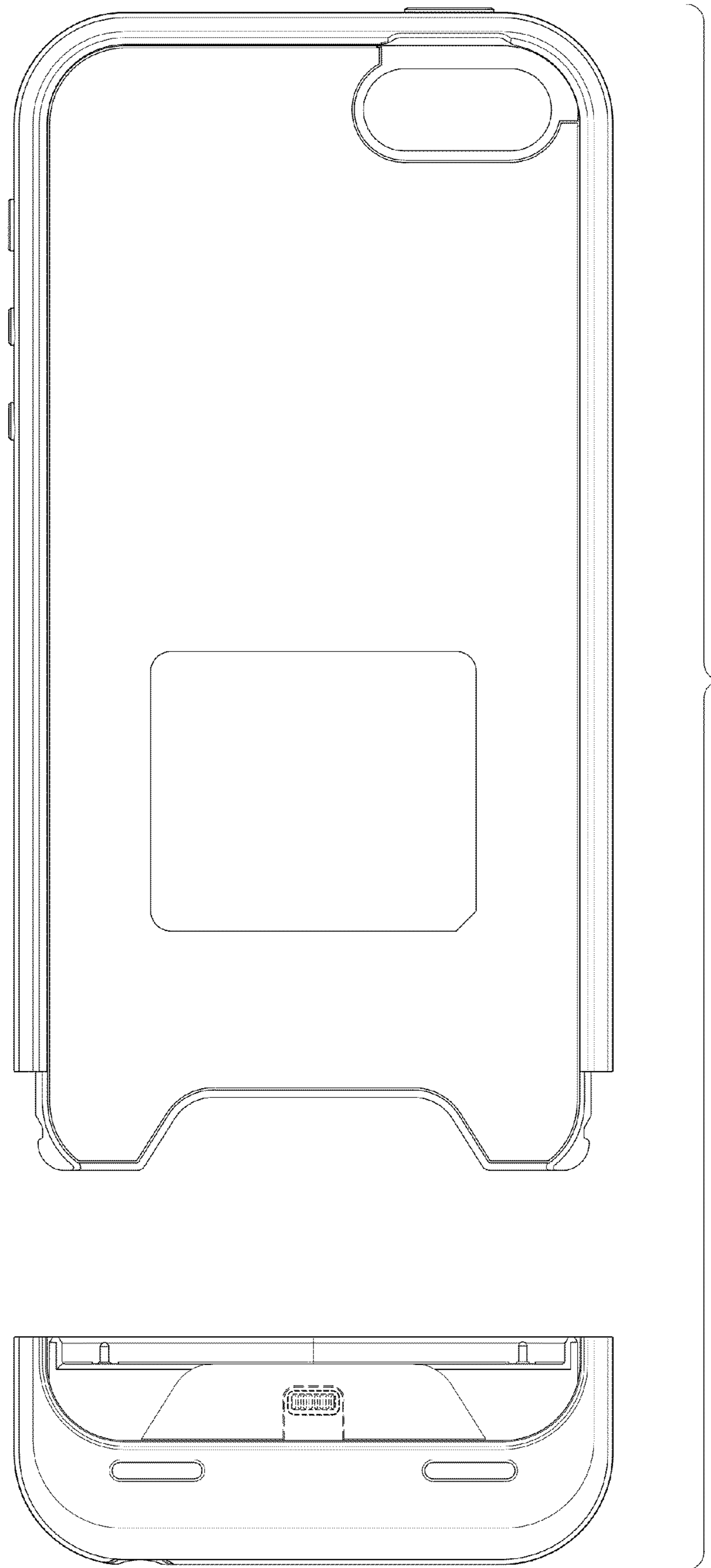


FIG. 25

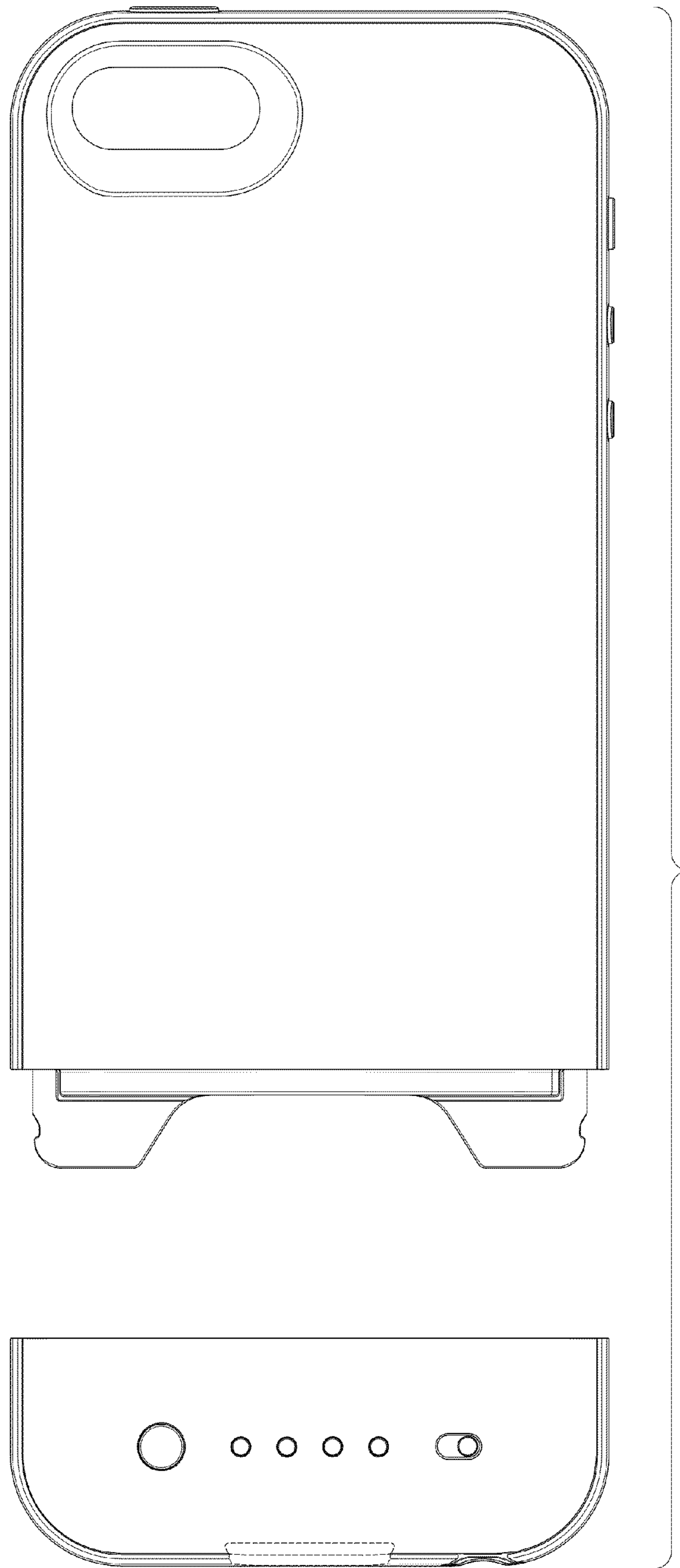


FIG. 26

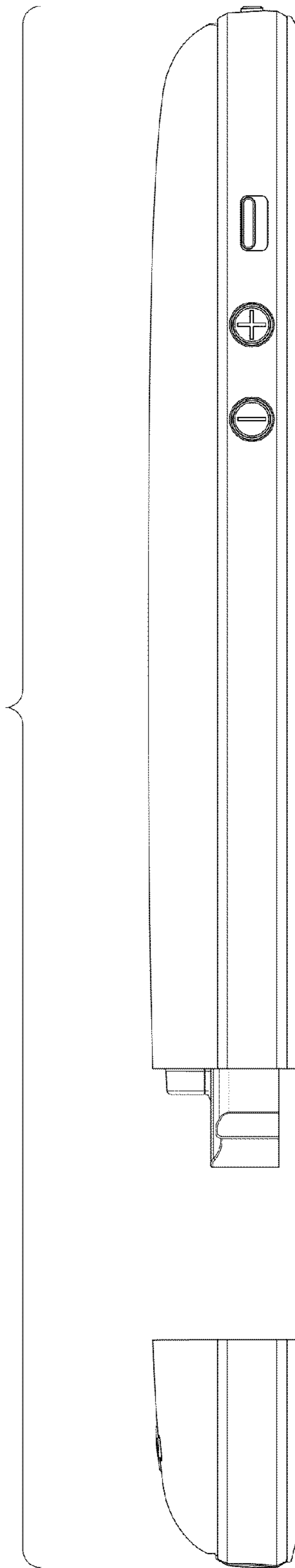


FIG. 27

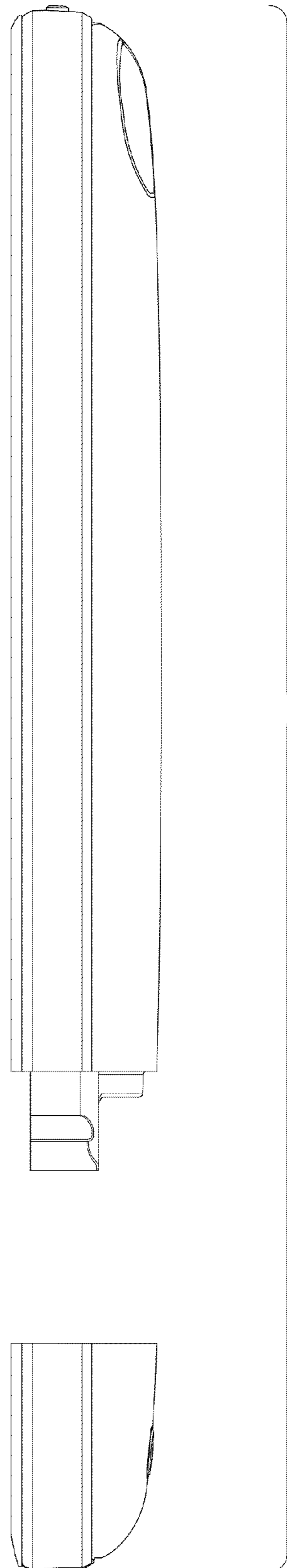


FIG. 28

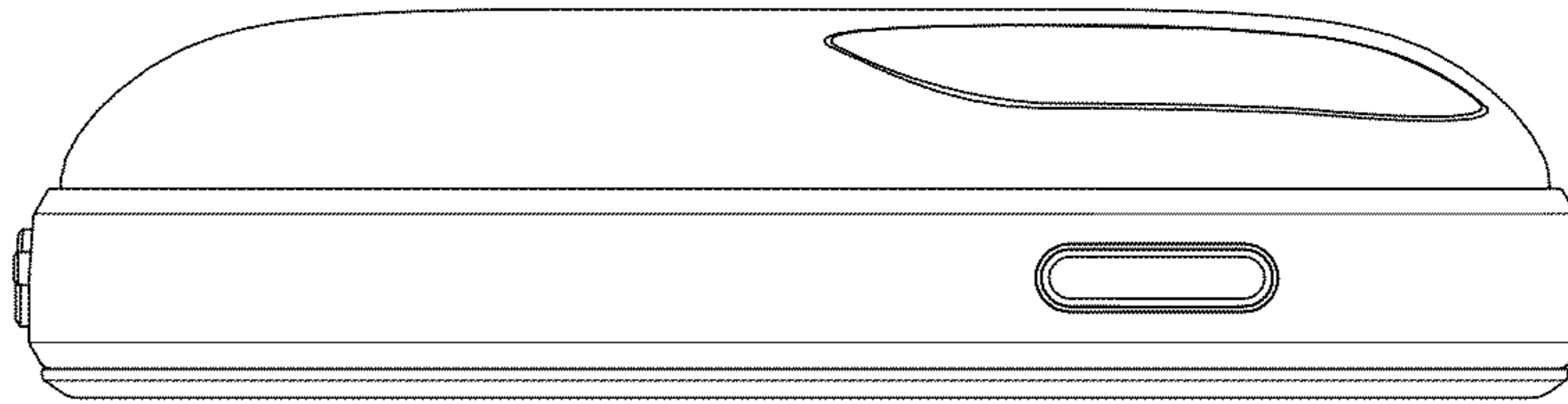


FIG. 29

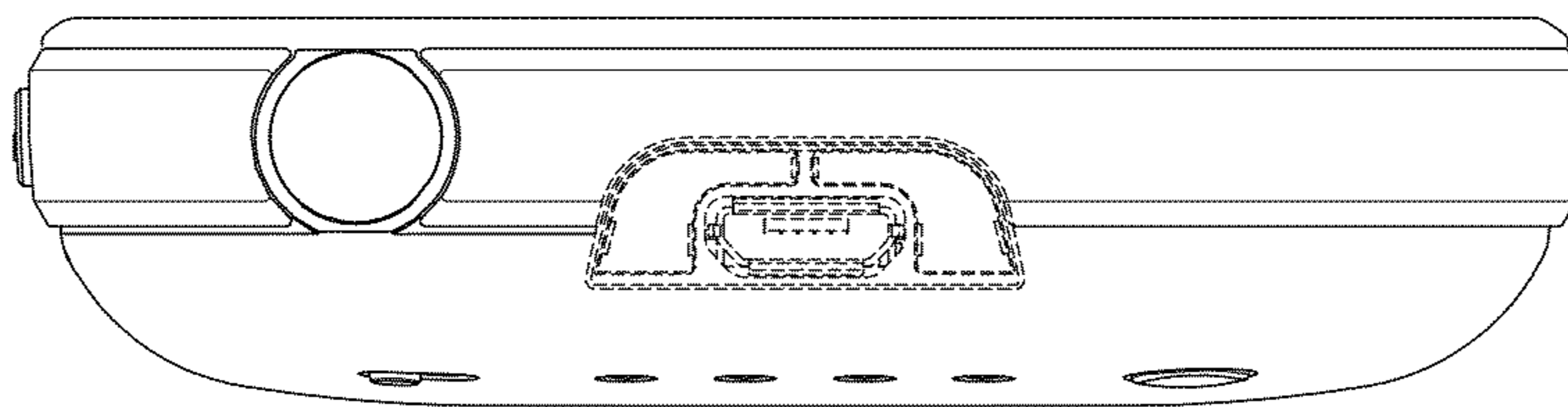


FIG. 30