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**Gioscia et al.**

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(54) **ROW OF KEYS FOR A KEYPAD FOR A MOBILE COMPUTING DEVICE**

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D14/151, 244, 247, 248, 257; D18/1, 2;  
379/433.01, 433.07, 900; 361/814, 680;  
345/168, 169; 455/90.3, 556.1, 556.2, 575.1;  
341/22; 178/17 C; 235/145 R; 400/485,  
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See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

|           |    |         |                |
|-----------|----|---------|----------------|
| 2,803,714 | A  | 8/1957  | Hesh           |
| 5,500,643 | A  | 3/1996  | Grant          |
| 5,680,158 | A  | 10/1997 | Yoshida et al. |
| D441,357  | S  | 5/2001  | Kolinen        |
| 6,396,482 | B1 | 5/2002  | Griffin et al. |
| D460,493  | S  | 7/2002  | Griffin et al. |
| D461,185  | S  | 8/2002  | Ando           |
| D461,803  | S  | 8/2002  | Griffin et al. |
| D464,995  | S  | 10/2002 | Griffin et al. |
| 6,483,445 | B1 | 11/2002 | England        |
| D470,843  | S  | 2/2003  | Horiki         |
| D476,328  | S  | 6/2003  | Miao et al.    |
| D476,329  | S  | 6/2003  | Miao et al.    |
| D479,233  | S  | 9/2003  | Griffin        |

|           |     |         |                          |
|-----------|-----|---------|--------------------------|
| D479,234  | S   | 9/2003  | Tanaka et al.            |
| D483,770  | S   | 12/2003 | Lum et al.               |
| D484,135  | S   | 12/2003 | Netzel et al.            |
| D485,838  | S   | 1/2004  | Wilson et al.            |
| D487,085  | S   | 2/2004  | Wilson et al.            |
| D491,158  | S   | 6/2004  | Mou et al.               |
| 6,785,395 | B1  | 8/2004  | Arneson et al.           |
| D501,475  | S   | 2/2005  | Kim                      |
| D506,754  | S   | 6/2005  | Schlieffers et al.       |
| D508,046  | S   | 8/2005  | Suzuki                   |
| D518,820  | S   | 4/2006  | Hawkins et al.           |
| D518,821  | S   | 4/2006  | Hawkins et al.           |
| D519,502  | S   | 4/2006  | Hawkins et al.           |
| D541,288  | S * | 4/2007  | Lam et al. .... D14/455  |
| 7,224,373 | B1  | 5/2007  | Duarte et al.            |
| D548,218  | S * | 8/2007  | Hong et al. .... D14/138 |
| D550,641  | S * | 9/2007  | Wang ..... D14/138       |
| D554,612  | S * | 11/2007 | Wang ..... D14/138       |

(Continued)

**OTHER PUBLICATIONS**

Palm Treo 500v, Sep. 2007, [http://www.gsmaarena.com/palm\\_treo\\_500v-2100.php](http://www.gsmaarena.com/palm_treo_500v-2100.php).\*

(Continued)

*Primary Examiner* — Angela J Lee

(57)

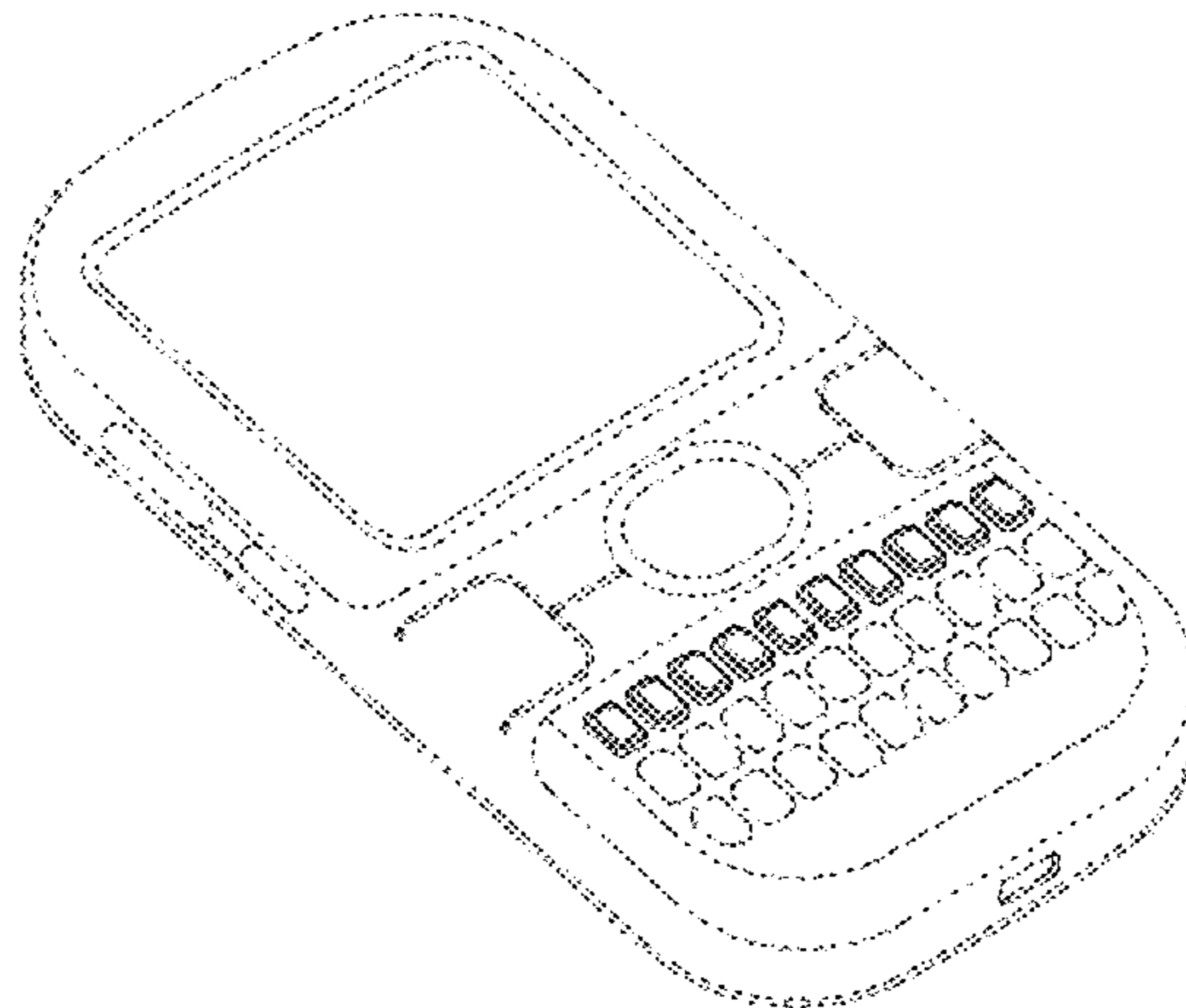
**CLAIM**

The ornamental design for a row of keys for a keypad for a mobile computing device, as shown and described.

**DESCRIPTION**

FIG. 1 is a front view of a row of keys for a keypad for a mobile computing device;  
FIG. 2 is a first isometric view of FIG. 1;  
FIG. 3 is a second isometric view of FIG. 1;  
FIG. 4 is a front view of a row of keys for a keypad for a mobile computing device with a different broken line showing;  
FIG. 5 is a first isometric view of FIG. 4; and,  
FIG. 6 is a second isometric view of FIG. 4.  
The broken line showing of a mobile computing device is included for the purpose of illustrating environment, and forms no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



## U.S. PATENT DOCUMENTS

|              |      |         |                 |       |           |
|--------------|------|---------|-----------------|-------|-----------|
| D554,634     | S *  | 11/2007 | Huang           | ..... | D14/341   |
| 2002/0186206 | A1 * | 12/2002 | Lee et al.      | ..... | 345/168   |
| 2004/0189610 | A1   | 9/2004  | Friend          |       |           |
| 2005/0057520 | A1   | 3/2005  | Robinson        |       |           |
| 2005/0099394 | A1   | 5/2005  | Chou et al.     |       |           |
| 2006/0133881 | A1   | 6/2006  | Osburn et al.   |       |           |
| 2006/0135226 | A1 * | 6/2006  | Won et al.      | ..... | 455/575.3 |
| 2006/0209032 | A1 * | 9/2006  | Chiang et al.   | ..... | 345/169   |
| 2007/0057821 | A1 * | 3/2007  | Griffin         | ..... | 341/22    |
| 2007/0151832 | A1   | 7/2007  | Yurochko et al. |       |           |
| 2007/0155427 | A1 * | 7/2007  | Tran            | ..... | 455/556.2 |
| 2007/0161414 | A1 * | 7/2007  | Wang et al.     | ..... | 455/575.3 |
| 2007/0236461 | A1 * | 10/2007 | Griffin et al.  | ..... | 345/169   |

## OTHER PUBLICATIONS

Nokia E61, Oct. 2005, [http://www.gsmarena.com/nokia\\_e61-1322.php](http://www.gsmarena.com/nokia_e61-1322.php).\*

Nokia E61i, Feb. 2007, [http://www.gsmarena.com/nokia\\_e61i-1858.php](http://www.gsmarena.com/nokia_e61i-1858.php).\*

Samsung D300, Feb. 2006, [http://www.gsmarena.com/samsung\\_d300-1478.php](http://www.gsmarena.com/samsung_d300-1478.php).\*

Samsung SGH-D307/D300 telephone, published Oct. 20, 2005, [online], [retrieved on Dec. 15, 2009]. Retrieved from Internet, <URL:[http://www.phonearena.com/htmls/Samsung-SGH-D307-D300-phone-p\\_1245.html](http://www.phonearena.com/htmls/Samsung-SGH-D307-D300-phone-p_1245.html)>.\*

U.S. Appl. No. 11/530,380, filed Sep. 8, 2006, Mark Babella.

"Treo 650 Announced," product review and analysis, published on TreoCentral, Oct. 25, 2004, [www.treocentral.com/contents/Stories/472-1.htm](http://www.treocentral.com/contents/Stories/472-1.htm), 4 pages.

Handspring Press Release, Introduction of Treo 600, "Handspring Introduces Smartphone Design Innovations With Treo 600 Series," Jun. 18, 2003, [www.palm.com/us/company/pr/hs\\_archive/061803.html](http://www.palm.com/us/company/pr/hs_archive/061803.html), 2 pages.

Handspring Press Release, Introduction of Treo 180, "Handspring Unites Phone, Messaging and PDA in New Treo Communicator", Oct. 15, 2001, [www.palm.com/us/pr/hs\\_archive/101501.html](http://www.palm.com/us/pr/hs_archive/101501.html), 3 pages.

i-mate JAM, 2004, [http://www.gsmarena.com/i\\_mate\\_jam-963.php](http://www.gsmarena.com/i_mate_jam-963.php), 1 page.

U.S. Appl. No. 29/235,825, filed Aug. 5, 2005, Lawrence Lam et al.

U.S. Appl. No. 29/235,835, filed Aug. 5, 2005, Lawrence Lam et al.

U.S. Appl. No. 29/238,053, filed Sep. 8, 2005, Hoenig, David.

U.S. Appl. No. 29/248,879, filed Sep. 8, 2006, Stephen Lee et al.

U.S. Appl. No. 29/277,200, filed Feb. 16, 2007, Lawrence Lam et al.

i-mate PDA2k, announced 2004, available at [http://www.gsmarena.com/i\\_mate\\_pda2k-9.php](http://www.gsmarena.com/i_mate_pda2k-9.php), 1 page.

LG L5100, 2004, [http://www.gsmarena.com/Ig\\_15100-891.php](http://www.gsmarena.com/Ig_15100-891.php), 3 pages.

LG U8380, Jun. 2005, [http://www.gsmarena.com/Ig\\_u8380-1269.php](http://www.gsmarena.com/Ig_u8380-1269.php), 2 pages.

Photos of Treo 180: three-quarter view of device, close up of keyboard & controls, Oct. 15, 2001, 2 pages.

Photos of Treo 600: front view of device and close up of keyboard & controls, Jun. 18, 2003, 2 pages.

Photos of Treo 650: front view of device and close up of keyboard & controls, 2 pages.

Samsung i700, Mar. 2004, [http://www.gsmarena.com/samsung\\_i700-441.php](http://www.gsmarena.com/samsung_i700-441.php), 2 pages.

T-Mobile Sidekick, PC World, Sep. 2003, p. 112, 2 pages.

\* cited by examiner

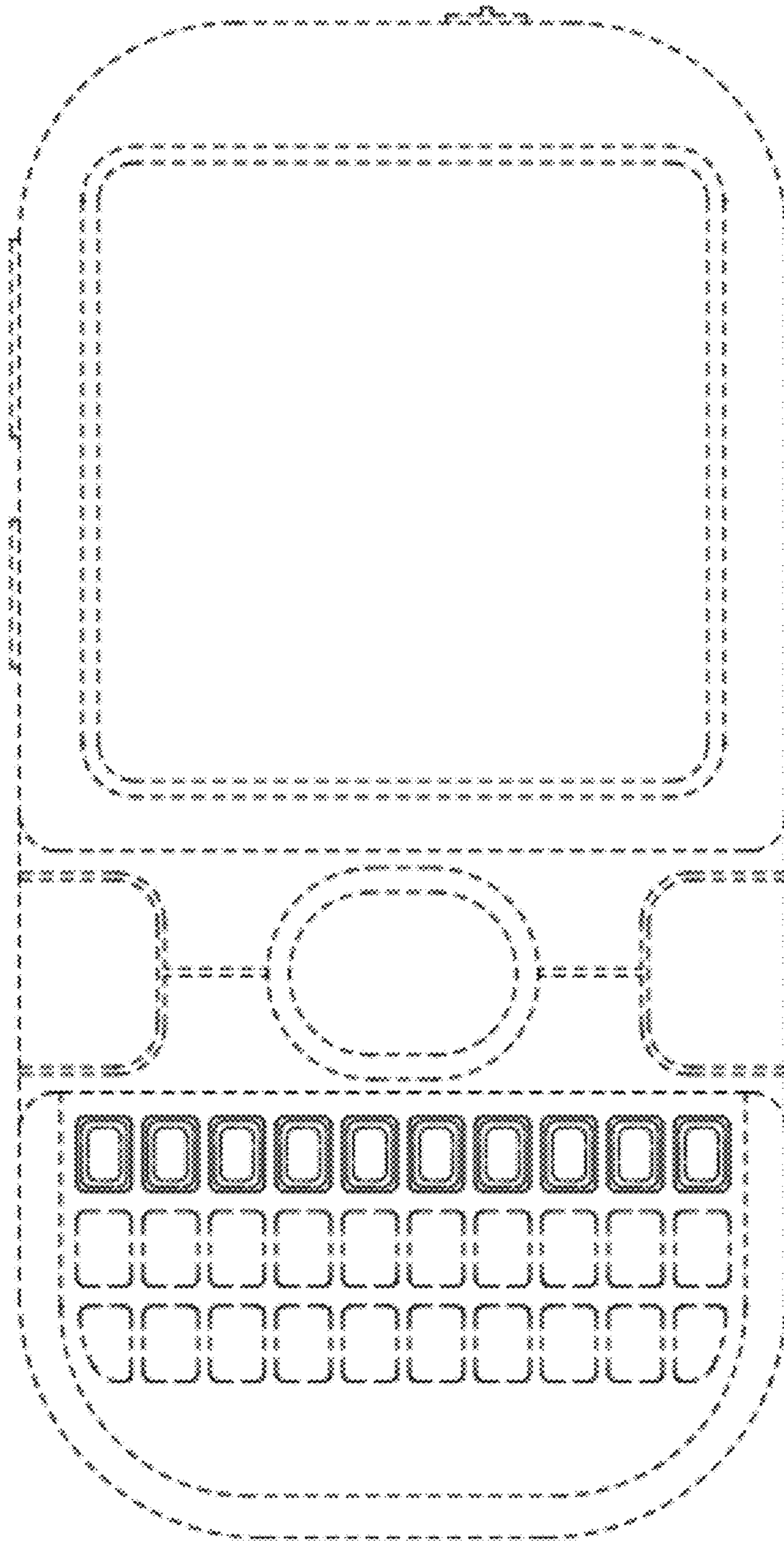


FIG. 1



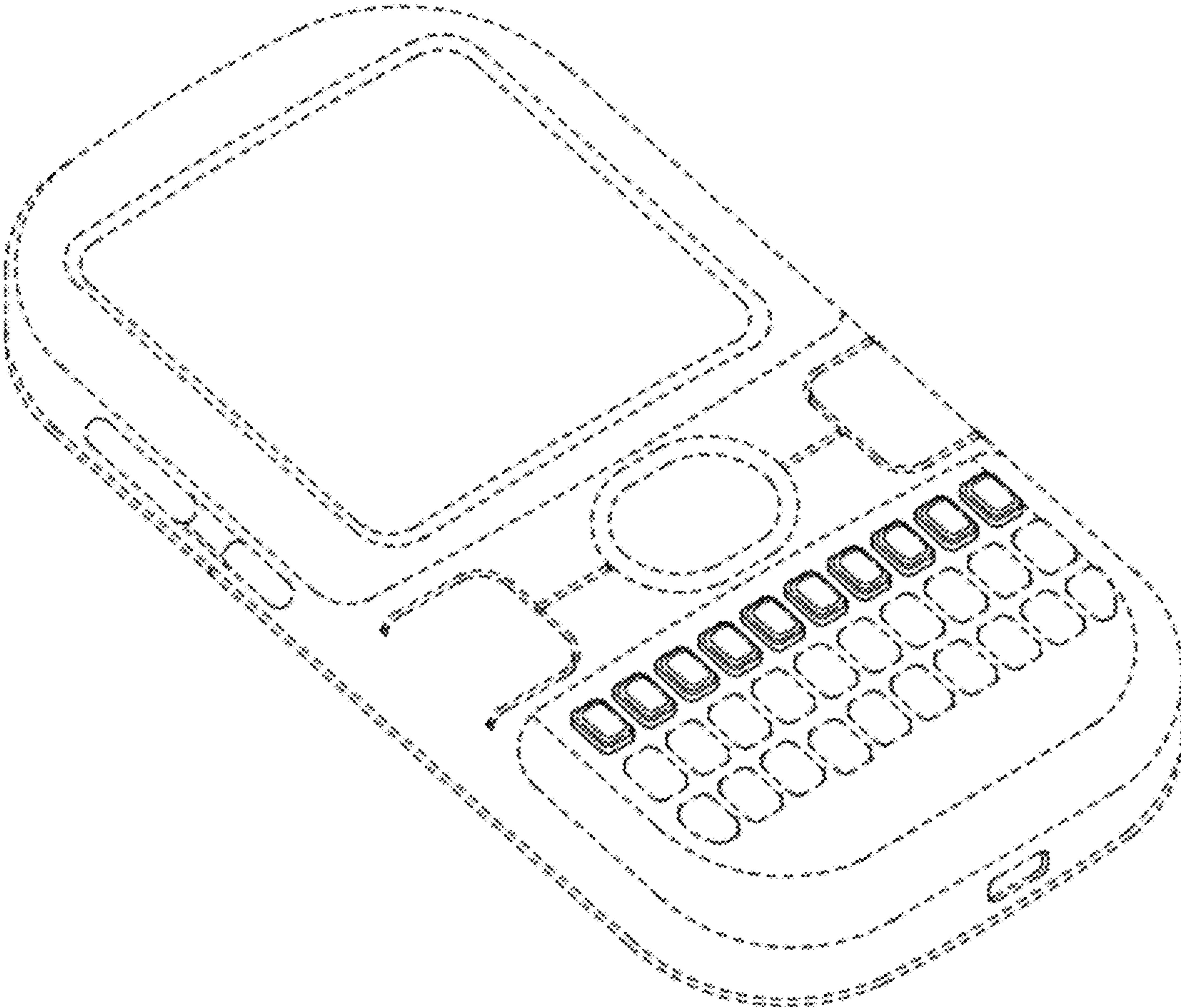


FIG. 2

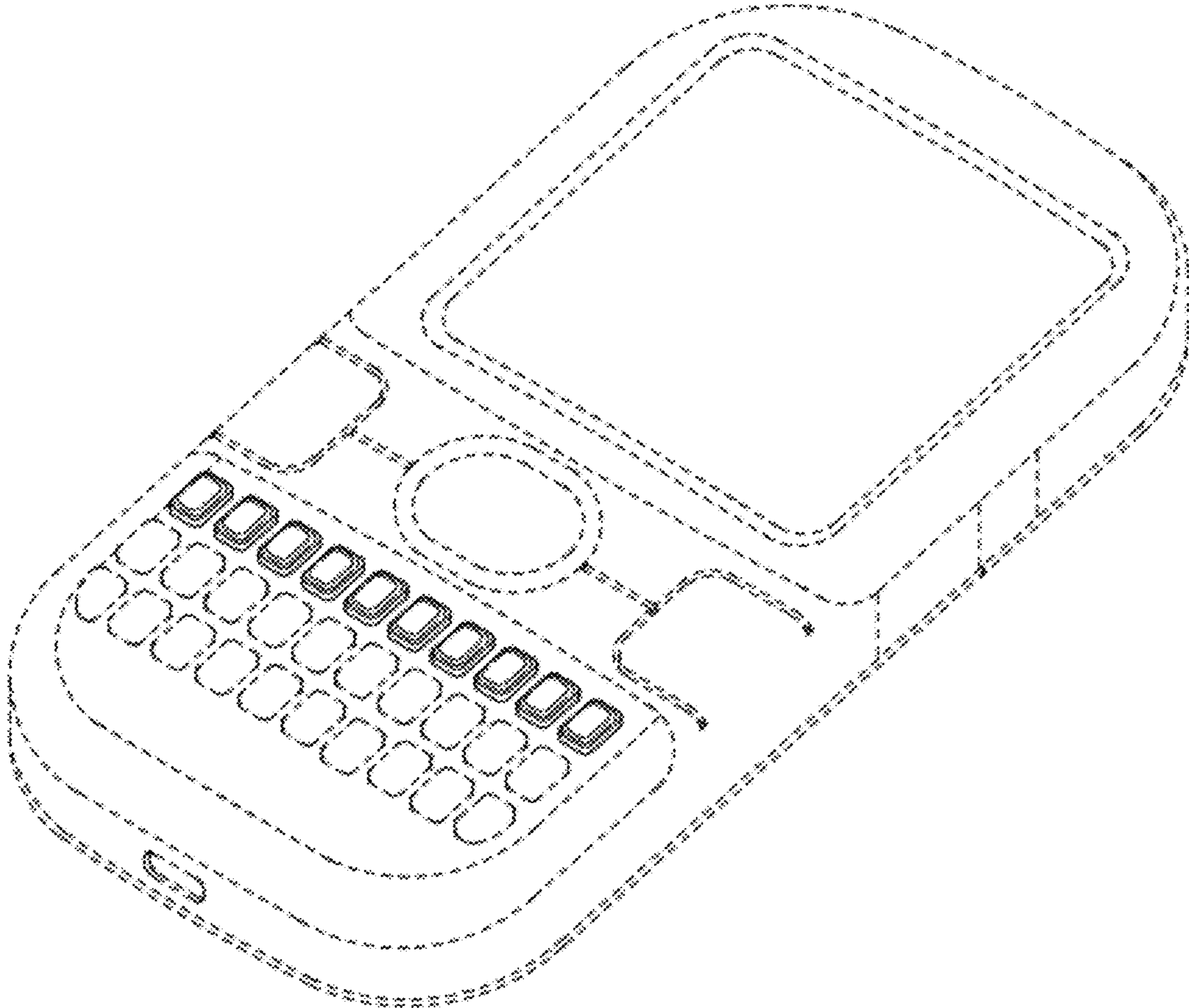


FIG. 3

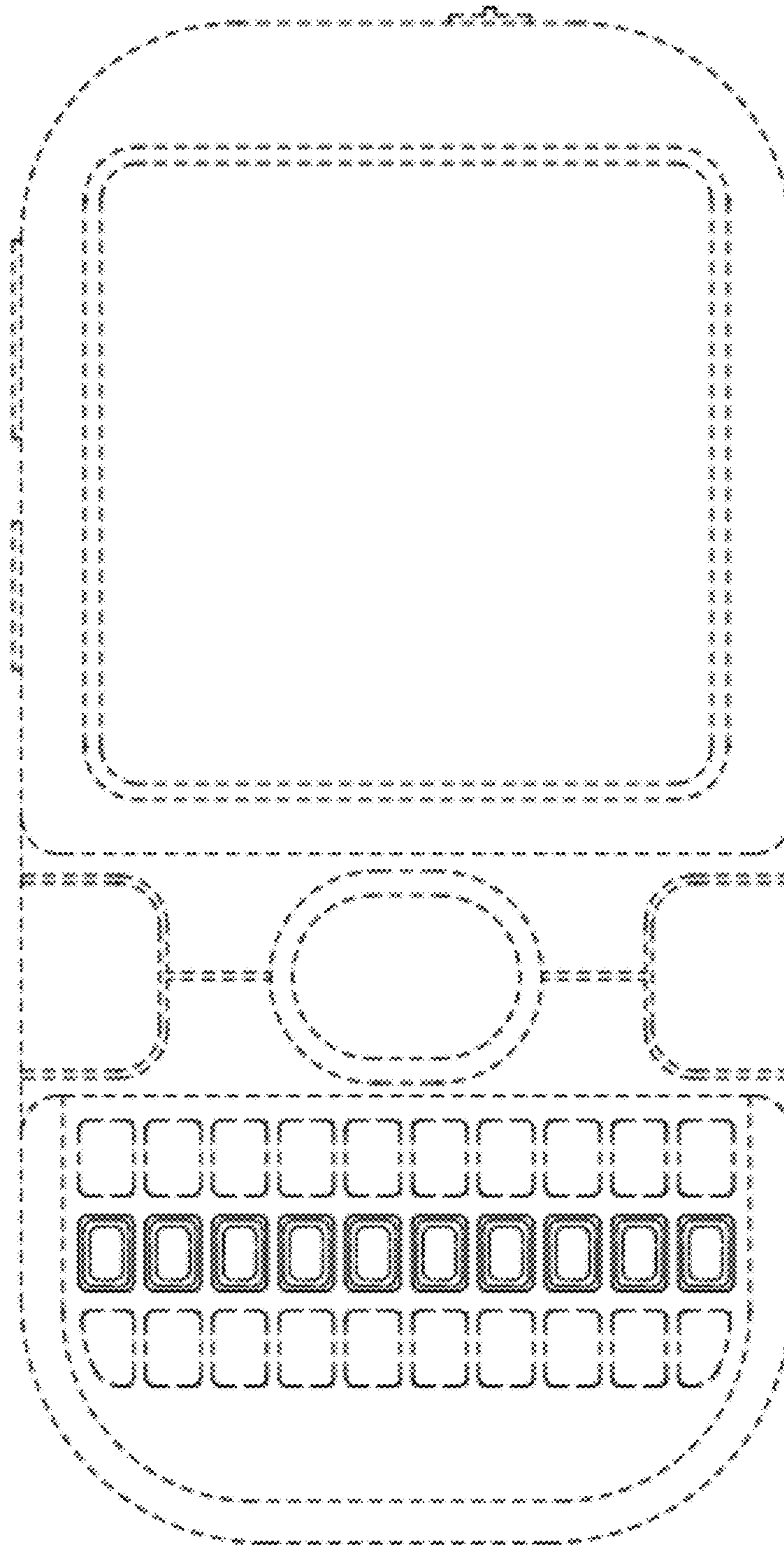


FIG. 4

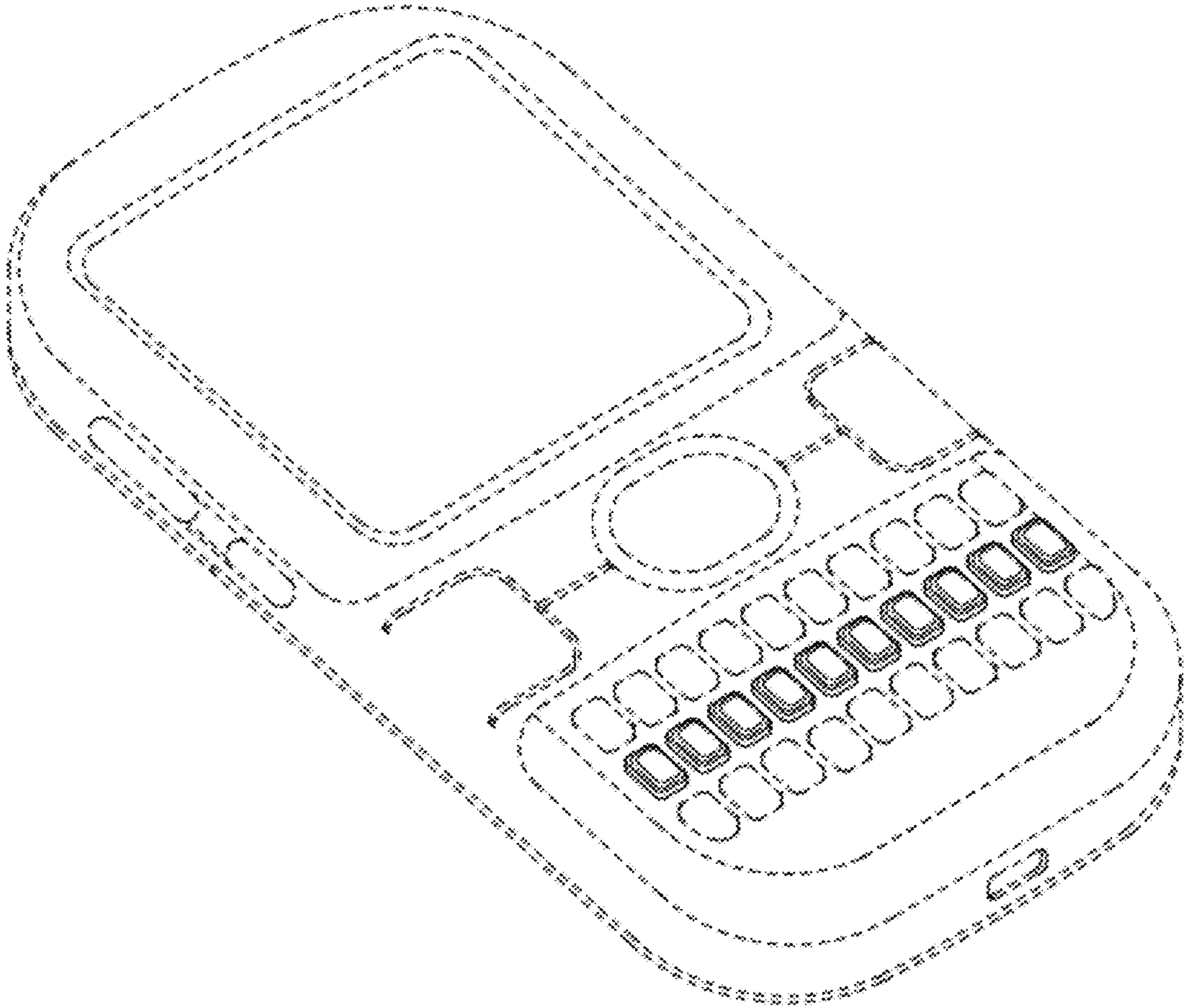


FIG. 5



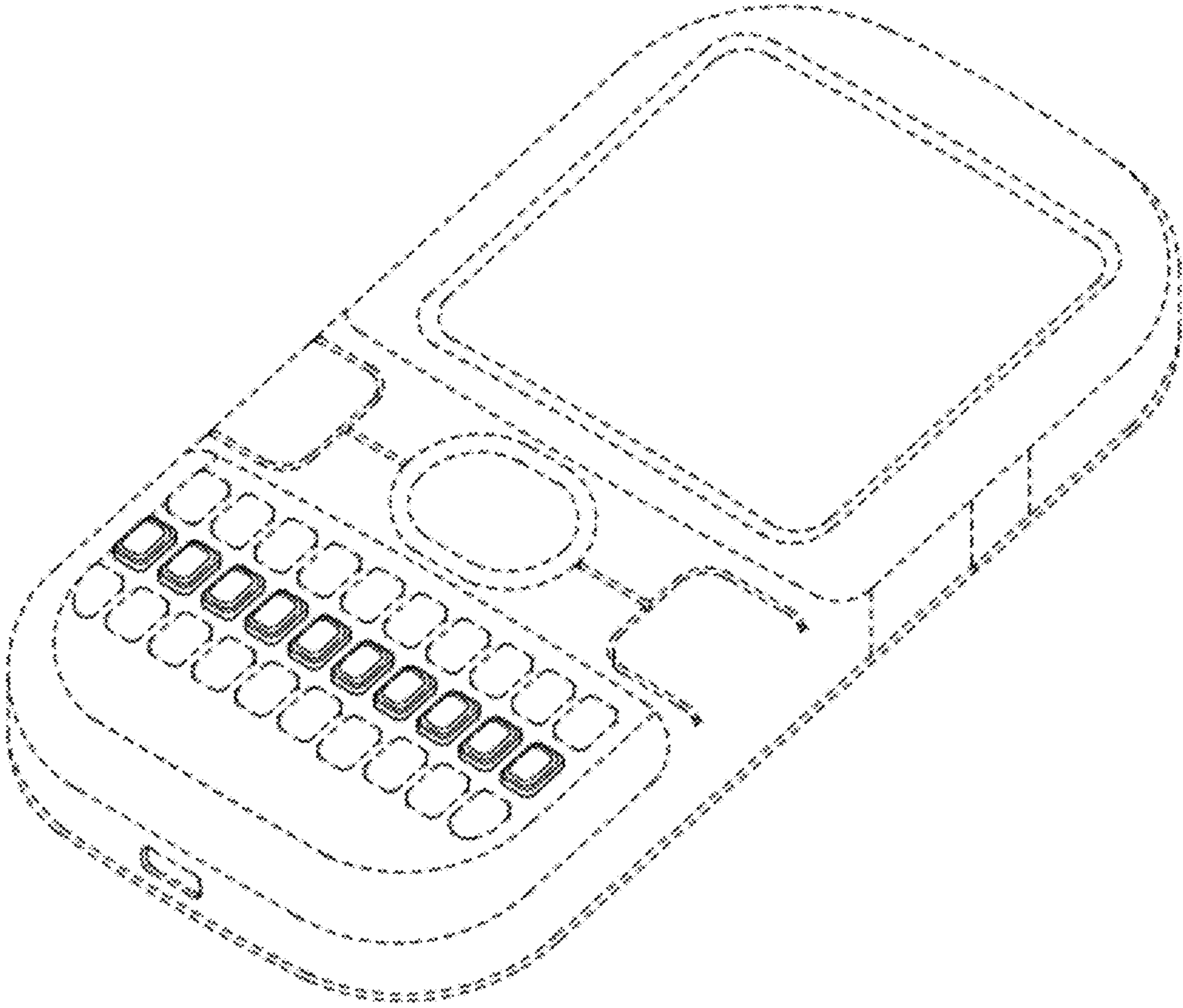


FIG. 6