



US00D779449S

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

(10) **Patent No.:** **US D779,449 S**
(45) **Date of Patent:** **** Feb. 21, 2017**

(54) **PORTABLE ELECTRONIC DEVICE**

(71) Applicant: **Samsung Electronics Co., Ltd.**,
Suwon-si (KR)

(72) Inventors: **Namsu Kim**, Seoul (KR); **Dohyung Ha**, Gwangmyeong-si (KR); **Saehee Lee**, Incheon (SK); **Hyunsook Kim**, Seoul (KR)

(73) Assignee: **Samsung Electronics Co., Ltd.**,
Suwon-si (KR)

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

(21) Appl. No.: **29/504,002**

(22) Filed: **Oct. 1, 2014**

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

(52) **U.S. Cl.**
USPC **D14/138 G**

(58) **Field of Classification Search**

USPC D14/138 G, 138 AD, 138 R, 496, 203.1, D14/203.3, 203.5, 203.7, 248, 218, 341, D14/439, 250; D21/517, 329; D13/168; 455/575.1, 556.2, 575.3, 575.4, 566; 379/433.01, 433.04; 361/679.3, 679.56
CPC ... G06F 1/1626; G06F 1/1652; H04M 1/0266; H04M 1/0268; H04M 1/02; H04M 2250/22; H04M 1/72527; H04M 1/0235; H04M 1/0237; H04M 1/0239; H04M 1/03; H04M 1/23; H04M 1/0202-1/035; G09F 9/301; H01L 2251/5338

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D303,111 S 8/1989 Paley
D504,109 S * 4/2005 Hagman D13/103
D546,276 S * 7/2007 Hagman D13/103
D593,994 S * 6/2009 Andre D14/203.7
D604,713 S * 11/2009 Andre D14/203.3
D609,233 S * 2/2010 Wood D14/341

D616,406 S * 5/2010 Du D14/138 AA
D629,384 S * 12/2010 Lee D14/203.3
D629,779 S * 12/2010 Ahn D14/138 AD
D631,458 S * 1/2011 Liao D14/138 G
D636,752 S * 4/2011 Liao D14/138 G
D647,876 S * 11/2011 Andre D14/203.3
D656,496 S * 3/2012 Andre D14/341

(Continued)

FOREIGN PATENT DOCUMENTS

CN 3543532 S 7/2006
CN 301090576 S 12/2009

(Continued)

OTHER PUBLICATIONS

Samsung Note Edge (via phoneArena.com), available Sep. 3, 2014, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: http://www.phonearena.com/news/Samsung-Galaxy-Note-4-and-Note-Edge-announced-by-AT-T-Verizon-Sprint-and-T-Mobile_id60167.*

(Continued)

Primary Examiner — Cathron Brooks
Assistant Examiner — Teddy Falloway
(74) *Attorney, Agent, or Firm* — NSIP Law

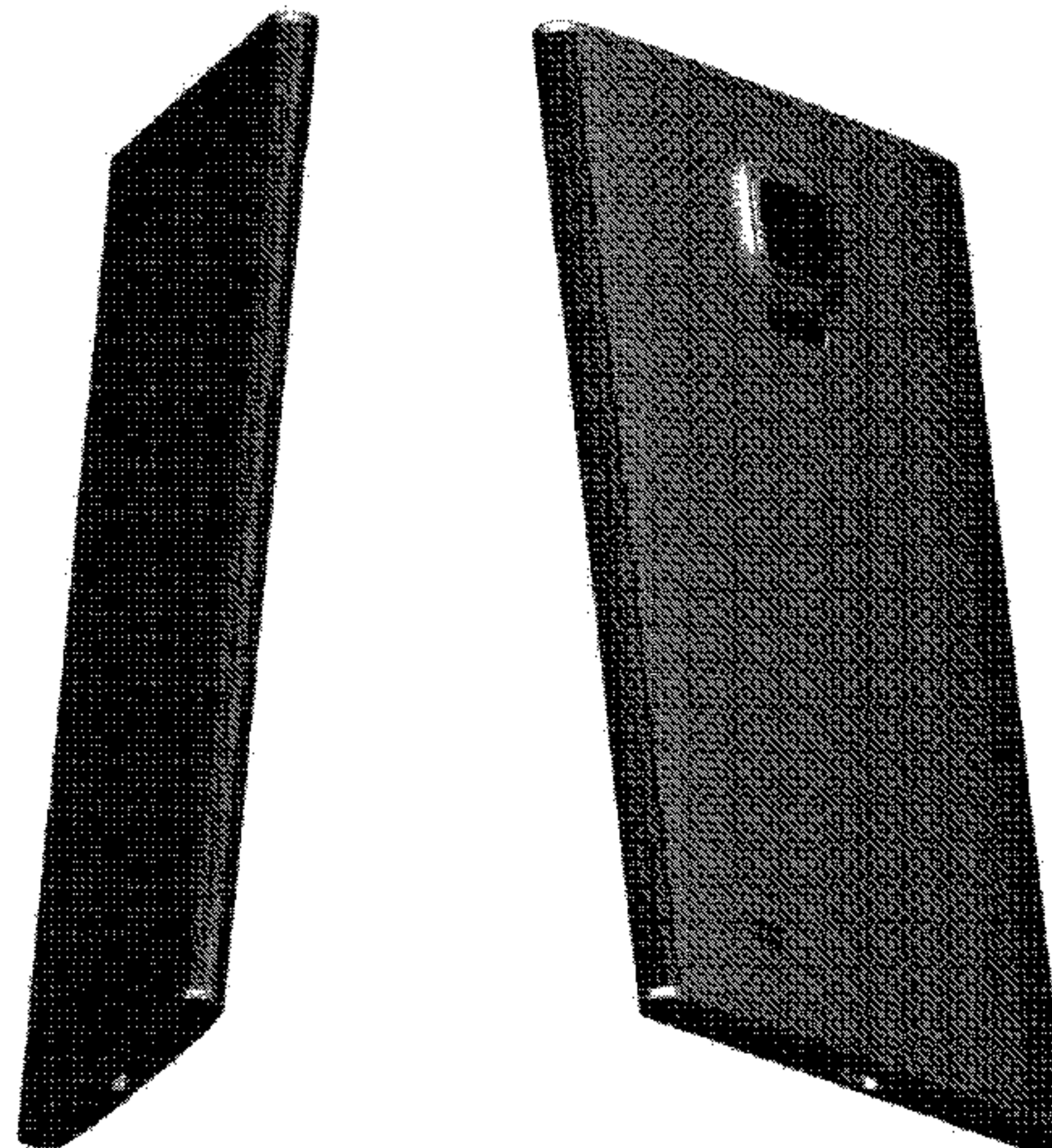
(57) **CLAIM**

The ornamental design for portable electronic device, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a portable electronic device showing our new design;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left-side view thereof;
FIG. 5 is a right-side view thereof;
FIG. 6 is a top view thereof;
FIG. 7 is a bottom view thereof; and,
FIG. 8 is a rear perspective view thereof.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D656,497 S 3/2012 Chiu
 D657,358 S 4/2012 Ferrari et al.
 D665,774 S * 8/2012 Akana D14/203.1
 D665,809 S * 8/2012 Wang D14/248
 D678,270 S 3/2013 Song et al.
 D681,056 S * 4/2013 Akana D14/203.3
 8,605,421 B2 * 12/2013 Verschoor G06F 1/1652
 361/679.21
 D706,300 S * 6/2014 Akana D14/341
 D706,738 S 6/2014 Kim et al.
 D719,506 S * 12/2014 Jung D13/108
 D720,353 S * 12/2014 Nakamura D14/432
 D722,035 S * 2/2015 Nam D14/138 AD
 D722,036 S * 2/2015 Nam D14/138 G
 D722,037 S * 2/2015 Nam D14/138 G
 D726,673 S * 4/2015 Lee D14/138 G
 D726,674 S * 4/2015 Lee D14/138 G
 D729,757 S * 5/2015 Lee D14/138 G
 D732,016 S * 6/2015 Park D14/341
 D732,499 S * 6/2015 Lee D14/138 G
 D737,238 S * 8/2015 Lee D14/138 G
 D737,794 S * 9/2015 Lee D14/138 G
 D741,308 S * 10/2015 Lee D14/248
 D742,867 S * 11/2015 Lee D14/248
 D744,468 S * 12/2015 Lee D14/248
 D744,973 S * 12/2015 Lee D14/138 G
 D744,990 S * 12/2015 Lee D14/138 G
 D744,991 S * 12/2015 Lee D14/248
 D744,992 S * 12/2015 Lee D14/248
 D745,004 S * 12/2015 Kim D14/341
 D745,484 S * 12/2015 Lee D14/138 G
 D747,301 S * 1/2016 Lee D14/138 G
 D747,302 S * 1/2016 Lee D14/248
 D748,082 S * 1/2016 Lee D14/248
 D749,535 S * 2/2016 Joung D14/138 G
 D750,617 S * 3/2016 Akana D14/341
 D755,166 S * 5/2016 Lee D14/248
 D756,995 S * 5/2016 Yamazaki D14/341
 D757,713 S * 5/2016 Yamazaki D14/341
 D757,714 S * 5/2016 Akana D14/341
 D757,716 S * 5/2016 Park D14/341
 D758,334 S * 6/2016 Du D14/138 G
 D758,412 S * 6/2016 Kim D14/487
 D758,416 S * 6/2016 Cho D14/487
 D761,251 S * 7/2016 Senda D14/341
 D761,252 S * 7/2016 Senda D14/341
 D761,787 S * 7/2016 Yamazaki D14/341
 D761,788 S * 7/2016 Yamazaki D14/341
 D761,789 S * 7/2016 Yamazaki D14/341
 D763,188 S * 8/2016 Park D13/108
 D766,891 S * 9/2016 Hong D14/341
 D767,525 S * 9/2016 Byun D14/138 AB
 D768,594 S * 10/2016 Szeto D14/138 G
 2003/0108786 A1 * 6/2003 Aaltonen H01M 2/1066
 429/61
 2009/0051316 A1 * 2/2009 Park H01M 10/46
 320/113
 2010/0048252 A1 * 2/2010 Kang H04M 1/72522
 455/566
 2010/0134961 A1 * 6/2010 Huang H01M 2/1066
 361/679.01
 2011/0148782 A1 * 6/2011 Wu H04M 1/0216
 345/173
 2011/0296724 A1 * 12/2011 Yang
 2012/0019482 A1 * 1/2012 Wang G06F 1/1652
 345/175
 2012/0093498 A1 * 4/2012 Hietala B29C 45/4421
 396/535
 2013/0002133 A1 * 1/2013 Jin G06F 1/1626
 313/511
 2013/0076612 A1 * 3/2013 Myers G06F 1/1626
 345/156
 2013/0164958 A1 * 6/2013 Zhang G06K 13/08
 439/153

2013/0222293 A1 * 8/2013 Chung G06F 3/041
 345/173
 2013/0300679 A1 * 11/2013 Oh A45C 11/00
 345/173
 2013/0300697 A1 * 11/2013 Kim G06F 1/1626
 345/173
 2014/0233194 A1 * 8/2014 Hongo H05K 1/0283
 361/749
 2014/0267091 A1 * 9/2014 Kim G06F 1/1652
 345/173
 2015/0003022 A1 * 1/2015 Chang G02F 1/133308
 361/748
 2015/0015512 A1 * 1/2015 Kwak G06F 3/0416
 345/173
 2015/0029113 A1 * 1/2015 Lee G06F 3/0412
 345/173
 2015/0095826 A1 * 4/2015 Ahn G06F 3/0488
 715/769
 2015/0169002 A1 * 6/2015 Kempainen G06F 1/1643
 361/679.55
 2015/0261376 A1 * 9/2015 Kim G06F 3/0487
 345/173
 2015/0334211 A1 * 11/2015 Shin G06F 3/041
 455/566
 2015/0346899 A1 * 12/2015 Jung G06F 3/0416
 345/173
 2016/0006862 A1 * 1/2016 Park H04M 1/72577
 455/411
 2016/0048316 A1 * 2/2016 Bae G06F 3/04847
 715/800
 2016/0062391 A1 * 3/2016 Choi G06F 1/1601
 361/679.03
 2016/0062506 A1 * 3/2016 Namkung G06F 3/044
 345/174
 2016/0066412 A1 * 3/2016 Choi G06F 1/1626
 361/704
 2016/0109852 A1 * 4/2016 Kuwabara G06F 1/163
 368/223
 2016/0139629 A1 * 5/2016 Yeo G06F 1/1624
 361/679.27
 2016/0210257 A1 * 7/2016 Szeto G06F 13/4022
 2016/0233037 A1 * 8/2016 Lee H01H 13/705
 2016/0234361 A1 * 8/2016 Baek H04M 1/0262
 2016/0234362 A1 * 8/2016 Moon H04M 1/0268
 2016/0253039 A1 * 9/2016 Heo G06F 3/0412

FOREIGN PATENT DOCUMENTS

CN 301328952 S 8/2010
 CN 301397797 S 12/2010
 CN 301552949 S 5/2011
 CN 301633578 S 8/2011
 CN 301720627 S 11/2011
 CN 302190209 S 11/2012
 CN 302219811 S 12/2012
 CN 302254377 S 12/2012
 CN 302341226 S 3/2013
 CN 302483721 S 6/2013
 CN 302680760 S 12/2013
 EP 000800750-0001 10/2007
 EP 001053060-0001 10/2009
 EP 001169692-0001 10/2009
 EP 000974449-0032 1/2011
 EP 001935800-0014 11/2011
 EP 002236091-0001 6/2013
 EP 002236091-0002 6/2013
 EP 002233437-0001 7/2013
 EP 002233437-0002 7/2013
 EP 002233437-0009 7/2013
 EP 002234666-0001 7/2013
 EP 002234666-0003 7/2013
 EP 002255430-0001 10/2013
 JP D1170795 S 4/2003
 JP D1247848 S 8/2005
 JP D1260808 S 1/2006
 JP D1322619 S 2/2008
 JP D1381654 S 3/2010

(56)

References Cited

FOREIGN PATENT DOCUMENTS

| | | | |
|----|-----------------|---|---------|
| JP | D1382708 | S | 3/2010 |
| JP | D1336377 | S | 7/2011 |
| JP | D1448200 | S | 8/2012 |
| JP | D1455302 | S | 11/2012 |
| JP | D1456537 | S | 12/2012 |
| JP | D1469501 | S | 5/2013 |
| JP | D1471843 | S | 6/2013 |
| JP | D1472408 | S | 6/2013 |
| JP | D1472870 | S | 6/2013 |
| KR | 30-0444055 | S | 3/2007 |
| KR | 30-0548452 | S | 12/2009 |
| KR | 30-0553543 | S | 2/2010 |
| KR | 30-0559101 | S | 4/2010 |
| KR | 30-0567914 | S | 7/2010 |
| KR | 30-0569654 | S | 8/2010 |
| KR | 30-0570943 | S | 8/2010 |
| KR | 30-0580567 | S | 11/2010 |
| KR | 30-0586969 | S | 1/2011 |
| KR | 30-0587003 | S | 1/2011 |
| KR | 30-0587012 | S | 1/2011 |
| KR | 30-0594208 | S | 3/2011 |
| KR | 30-0555284 | S | 6/2011 |
| KR | 30-0617131 | S | 10/2011 |
| KR | 30-0621679 | S | 11/2011 |
| KR | 30-0625778 | S | 12/2011 |
| KR | 30-0657116 | S | 8/2012 |
| KR | 30-0681063 | S | 2/2013 |
| KR | 30-0693630 | S | 5/2013 |
| KR | 30-2013-0030879 | * | 6/2013 |
| KR | 30-2013-0030914 | * | 6/2013 |
| KR | 30-0697434 | S | 6/2013 |
| KR | 30-0698312 | S | 6/2013 |
| KR | 30-0649451 | S | 7/2013 |
| KR | 30-0649973 | S | 7/2013 |
| KR | 30-0649989 | S | 7/2013 |
| KR | 30-0651131 | S | 7/2013 |
| KR | 30-0651149 | S | 7/2013 |
| KR | 30-0700111 | S | 7/2013 |
| KR | 30-0700112 | S | 7/2013 |
| KR | 30-0700113 | S | 7/2013 |
| KR | 30-0700117 | S | 7/2013 |
| KR | 30-0712685 | S | 10/2013 |
| KR | 30-0712690 | S | 10/2013 |
| KR | 30-0715256 | S | 11/2013 |
| KR | 30-0716197 | S | 11/2013 |
| KR | 30-0716198 | S | 11/2013 |
| KR | 30-0716199 | S | 11/2013 |
| KR | 30-0722048 | S | 12/2013 |
| KR | 30-0722547 | S | 12/2013 |
| KR | 30-0725395 | S | 1/2014 |
| KR | 30-0725694 | S | 1/2014 |
| KR | 30-0725695 | S | 1/2014 |
| KR | 30-0725696 | S | 1/2014 |
| KR | 30-0725697 | S | 1/2014 |
| KR | 30-0734456 | S | 3/2014 |
| KR | 30-0725696 | S | 4/2014 |
| KR | 30-0739367 | S | 4/2014 |
| KR | 30-0739368 | S | 4/2014 |
| KR | 30-0739371 | S | 4/2014 |
| KR | 30-0747401 | S | 6/2014 |
| KR | 30-0757093 | S | 8/2014 |
| KR | 30-2014-0048600 | * | 10/2014 |
| KR | 30-2014-0048601 | * | 10/2014 |
| KR | 30-2014-0048602 | * | 10/2014 |
| KR | 30-2014-0048603 | * | 10/2014 |

OTHER PUBLICATIONS

“Meet Samsung’s Galaxy S6 and Galaxy S6 edge” (via engadget), available Mar. 1, 2015, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: <https://www.engadget.com/2015/03/01/meet-samsungs-galaxy-s-6-and-galaxy-s-6-edge/>.*

Samsung Galaxy S7/S7 Edge-Official Announcement (YouTube), available Feb. 21, 2016, [online], [site visited Aug. 11, 2016]. Video

available from internet, <URL: <https://www.youtube.com/watch?v=0AxumrA0S80>.*

“Samsung will announce the Galaxy Note 7 on Aug. 2nd” (via the Verge), available Jul. 12, 2016, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: <http://www.theverge.com/circuitbreaker/2016/7/12/12158552/samsung-galaxy-note-7-event-august-2nd>.*

“Samsung to offer phone with wraparound display next year?” (via phoneArena.com), available Nov. 15, 2013, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: http://www.phonearena.com/news/Samsung-to-offer-phone-with-wraparound-display-next-year_id49394.*

“Apple iPhone 6 concept shows off wraparound screen” (via phoneArena.com), available Nov. 23, 2013, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: http://www.phonearena.com/news/Apple-iPhone-6-concept-shows-off-wrap-around-screen_id49651.*

LG Display at CES 2015 (YouTube), available Jan. 7, 2015, [online], [site visited Aug. 11, 2016]. Video available from internet, <URL: <https://www.youtube.com/watch?v=kJmAPNf9a8k>.*

“Samsung curved screen phone is coming in Oct.” (via Pocket-lint), available Sep. 25, 2013, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: <http://www.pocket-lint.com/news/123919-samsung-curved-screen-phone-is-coming-in-october>.*

“Samsung to make curved smartphone” (via CNN), available Sep. 25, 2013, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: <http://www.cnn.com/2013/09/25/tech/mobile/samsung-curved-smartphone/>.*

“Samsung’s next big bet: Smartphone with a curved screen” (via rediff), available Nov. 14, 2014, [online], [site visited Aug. 11, 2016]. Available from internet, <URL: <http://www.rediff.com/money/report/pix-tech-samsungs-next-big-bet-smartphone-with-a-curved-screen/20141114.htm>.*

“Samsung’s Galaxy Round is the first phone with a curved display” (via the Verge), available Oct. 8, 2013, [online], [site visited Aug. 15, 2016]. Available from internet, <URL: <http://www.theverge.com/2013/10/8/4818572/samsung-galaxy-round-curved-oled-smartphone-official>.*

LG G Flex (via GSMarena), available Nov. 2013, [online], [site visited Aug. 15, 2016]. Available from internet, <URL: http://www.gsmarena.com/lg_g_flex-pictures-5806.php.*

New iPhone 6 Renderings (via MacRumors), available Apr. 25, 2014, [online], [site visited Aug. 15, 2016]. Available from internet, <URL: <http://www.macrumors.com/2014/04/25/iphone6-renders-curved-display-rounded-corners/>.*

iPhone 6 by Federico Ciccarese (YouTube), available Jan. 4, 2013, [online], [site visited Aug. 15, 2016]. Video available from internet, <URL: <https://www.youtube.com/watch?v=bl1cGOW5i68>.*

Samsung Galaxy S5 concept like iPhone 6 (via PR), available Sep. 23, 2013, [online], [site visited Sep. 13, 2016]. Available from internet, <URL: <http://www.product-reviews.net/2013/09/23/samsung-galaxy-s5-concept-like-iphone-6/>.*

Flux Concept Phone (via Concept Phones), available Mar. 29, 2015, [online], [site visited Sep. 14, 2016]. Available from internet, <URL: <http://www.concept-phones.com/cool-concepts/flux-concept-phone-perfect-android/>.*

Sony Xperia Curve Concept (via GSMdome), available Jan. 19, 2015, [online], [site visited Sep. 14, 2016]. Available from internet, <URL: <http://www.gsmdome.com/sony-xperia-curve-concept-borrows-elements-lumia-series-curved-phones>.*

iPhone Nano Concept (via Concept Phones), available Jul. 16, 2011, [online], [site visited Sep. 16, 2016]. Available from internet, <URL: <http://www.concept-phones.com/apple/iphone-nano-concept-created-dallas-bradshaw/>.*

Bangera, Abhijit, “Wrap-Around BlackBerry Smartphone—A Concept Phone” dated Feb. 9, 2012, accessed Sep. 19, 2014.

Seth, Radhika, “Sony Pocket Tablet Concept by Patrik Eriksson” dated Aug. 16, 2012, accessed Sep. 19, 2014.

“Flexible Display Concept” dated Feb. 3, 2013, accessed Sep. 22, 2014.

smoyu, “iPhone 6 Concept” dated Aug. 8, 2013, accessed Sep. 22, 2014.

(56)

References Cited

OTHER PUBLICATIONS

Grover, Tushar, "Blackberry Wraparound Display Phone" dated Wednesday Apr. 4, 2012, accessed Sep. 19, 2014.

"Flexible Display iPhone Mockup" dated May 20, 2013, accessed Sep. 22, 2014.

"Pandora Portable Pouch-Type Flexible Display Note Concept", Apr. 28, 2013, accessed Sep. 22, 2014.

P., Daniel, "Samsung Flexible Display Patents Include Pull-Out and Rollable Concept Units" dated Mar. 7, 2012, accessed Sep. 22, 2014.

Samsung 2013.1.11 dated Jan. 11, 2013, accessed Sep. 22, 2014.

Thrystan, "Samsung Galaxy Youm Flexible Display Phone Gets Rendered, Spec'd" dated May 23, 2013, accessed Sep. 19, 2014.

"Samsung Flexible Prototype" dated Jan. 10, 2013, accessed Sep. 22, 2014.

Thrystan, "Wrap Around Screen Makes a Concept Hip" dated Jul. 8, 2008, accessed Sep. 19, 2014.

Hashslush Team, "LIMBO Smartphone Transforms into a Smartwatch" dated Jul. 16, 2013, accessed Sep. 19, 2014.

Buaniam, Than, "Galaxy Note 4 YOUM Display" dated Apr. 21, 2014.

Rigal, Samsur, "iPhone 6 Concept Design" dated Apr. 20, 2013, accessed Sep. 19, 2014.

"Nokia Lumia 999" dated Jan. 17, 2013, accessed Sep. 22, 2014.

Briden, Paul, "Samsung Flexible OLED Display Prototype Phones Showcased" dated Jan. 10, 2013, accessed Sep. 19, 2014.

Prasad, "Samsung Showcases Flexible OLED Displays" dated Jan. 10, 2013, accessed Sep. 19, 2014.

Kellex, "Samsung Shows Off 'Youm' Flexible Display on Prototype Phone at CES" dated Jan. 9, 2013, accessed Sep. 19, 2014.

Richardson, Valerie, "Samsung's Flexible Display Smartphone Launching This Week as the Galaxy Round" dated Oct. 7, 2013, accessed Sep. 19, 2014.

"Vans Concept" dated Jan. 27, 2012, accessed Sep. 19, 2014.

Warwick, Stephen, "iPhone 6 Concept Surfaces Based on Wrap-around Display Patent" dated Apr. 19, 2013, accessed Sep. 19, 2014.

Wordlesstech team, "LG Triptych Concetp Tablet-Phone" dated Feb. 12, 2011, accessed Sep. 22, 2014.

Loveridge, Sam, "Apple Patent Reveals Flexible Wrap-Around Display for Future iPhone, Unlikely for iPhone 6" dated Mar. 28 2013, accessed Sep. 22, 2014.

"Apple iPhone: Flexible Display Screen Phone is Coming!", May 2013, accessed Se. 19, 2014.

Darell, Richard, "Apple Patents Flexible Wraparound Display Smartphone", accessed Sep. 19, 2014.

"Concept Floater: Hybrid Smart Phone and E-Books" dated May 10, 2012, accessed Sep. 22, 2014.

Arghire, Ionut, "HTC 1 Phone Concept on Display" dated Jul. 13, 2010, accessed Sep. 22, 2014.

iPhone 6 2014.02.27 dated Feb. 27, 2014, accessed Sep. 22, 2014.

U.S. Appl. No. 29/503,971, filed Oct. 1, 2014, Kim et al.

U.S. Appl. No. 29/503,973, filed Oct. 1, 2014, Kim et al.

U.S. Appl. No. 29/503,978, filed Oct. 1, 2014, Kim et al.

U.S. Appl. No. 29/503,968, filed Oct. 1, 2014, Kim et al.

U.S. Appl. No. 29/503,975, filed Oct. 1, 2014, Kim et al.

U.S. Appl. No. 29/504,020, filed Oct. 1, 2014, Kim et al.

* cited by examiner

FIG. 1

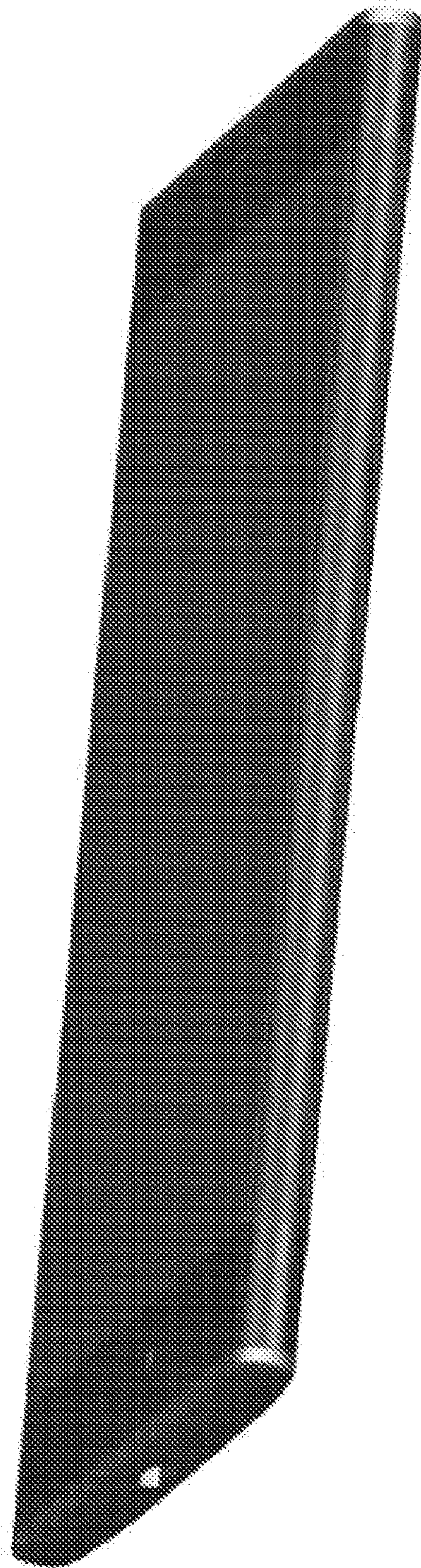


FIG. 2

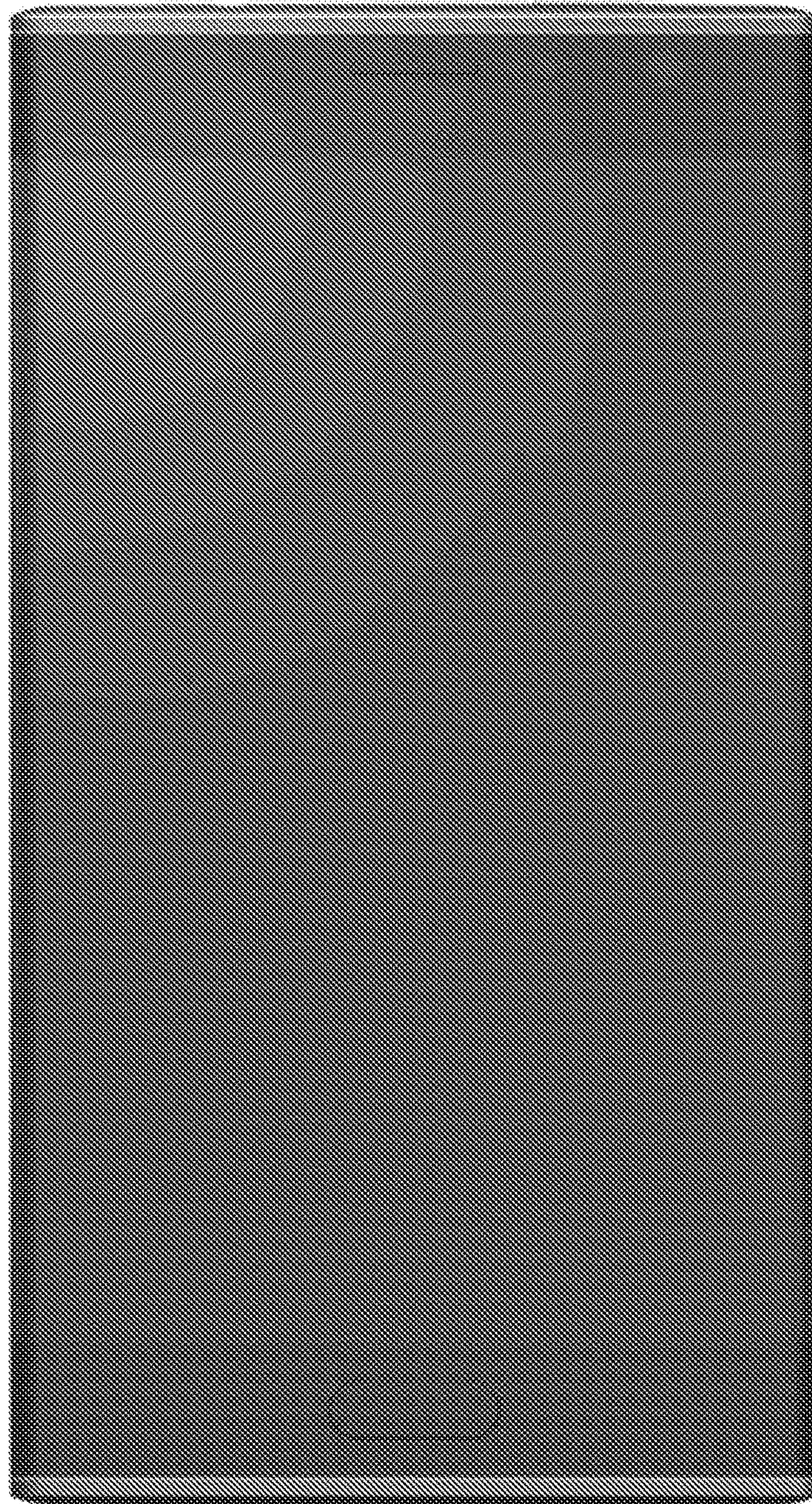


FIG. 3

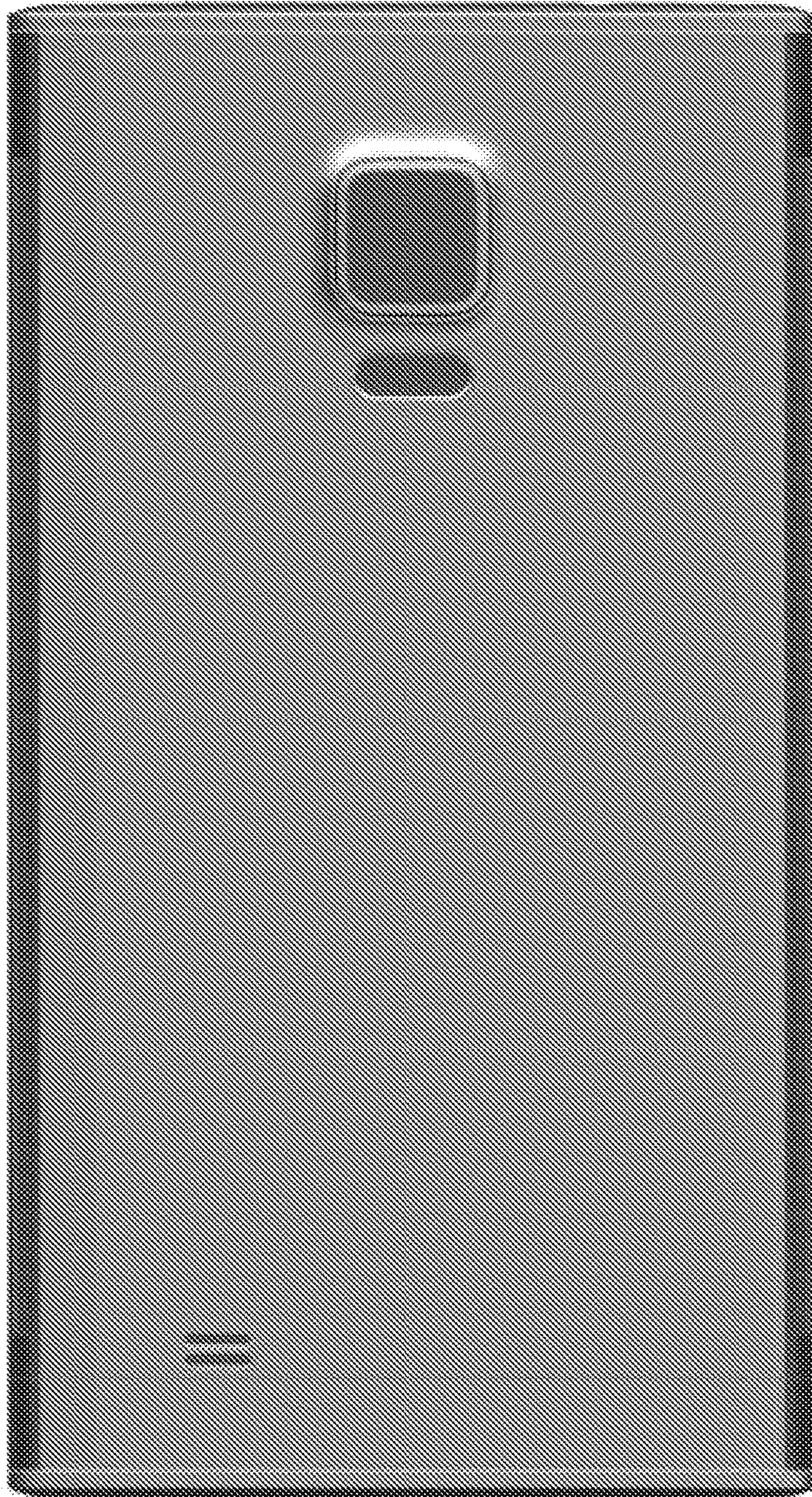


FIG. 4

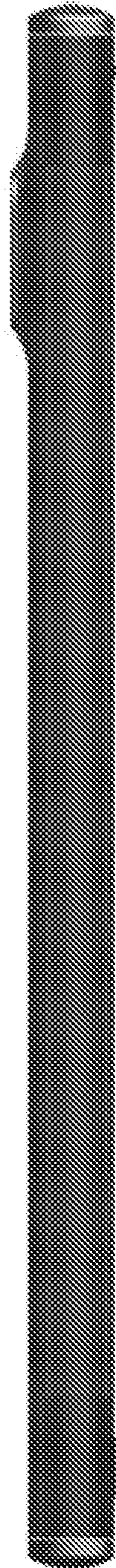


FIG. 5

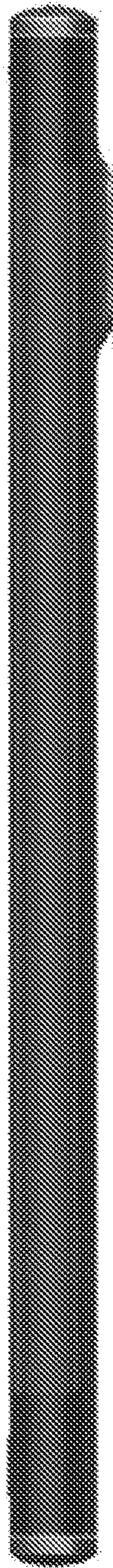


FIG. 6



FIG. 7



FIG. 8

