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(54) **ELECTRONIC DEVICE**

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USPC **D14/138 G**

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D14/138 C, 138 G, 138 R, 248, 315-318,
D14/341, 342, 345, 346, 203.1, 203.3,
D14/203.7, 250, 218, 371, 496, 388, 389;
D21/329; D10/65, 104.1, 50; D20/43
CPC .. H04M 1/027; H04M 1/0202; H04M 1/0279;
H04M 1/0235; H04M 1/0237; H04M
1/0239; H04M 1/0266; H04M 1/0268;
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1/1652; G06F 1/1626

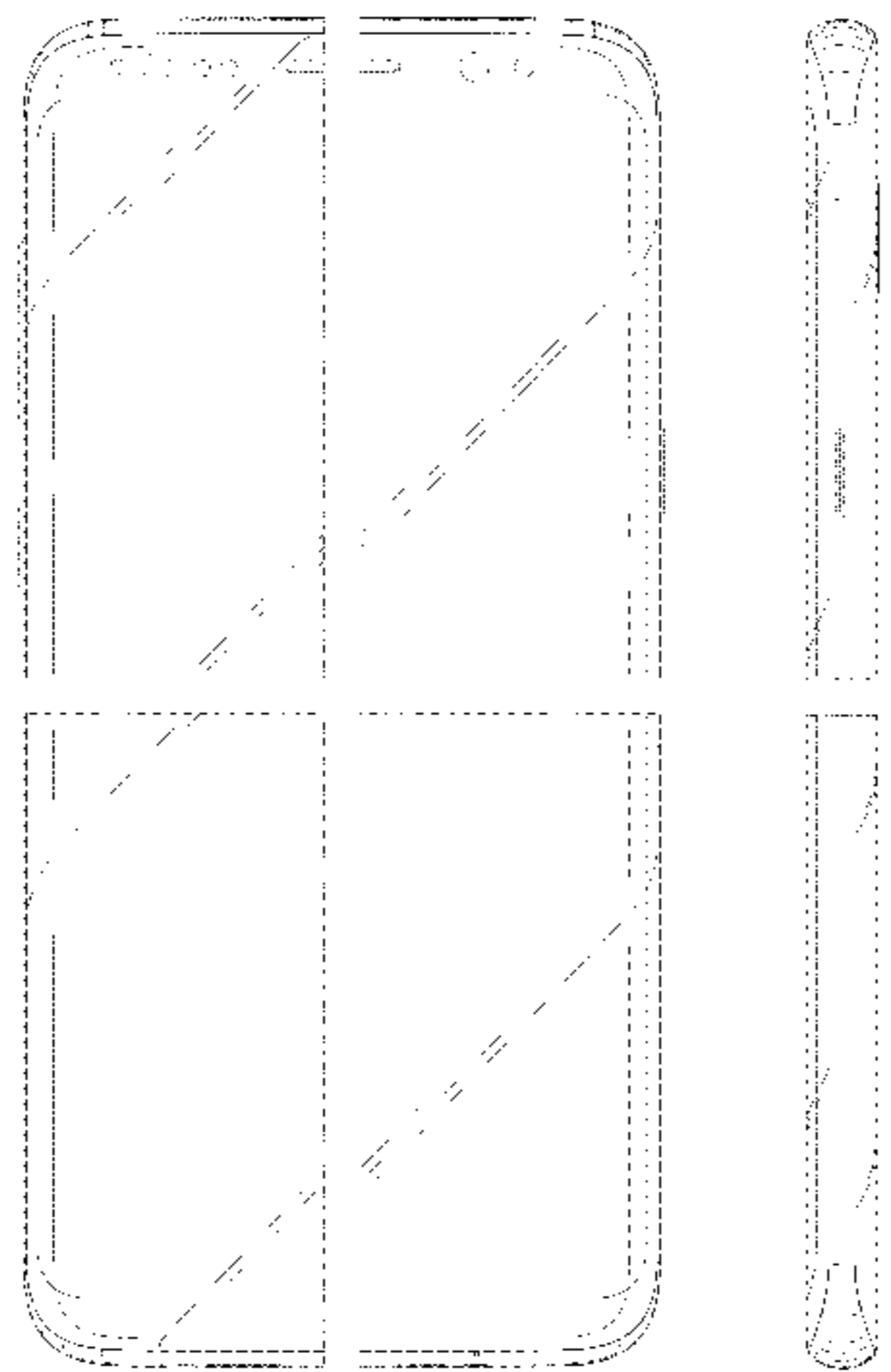
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D687,800 S * 8/2013 Lee D14/138 G
8,554,285 B2 * 10/2013 Kim G06F 1/1615
403/166
D695,704 S * 12/2013 Kim D14/138 G
D701,192 S * 3/2014 Park D14/138 G
D706,738 S * 6/2014 Kim D14/138 G

D740,774 S * 10/2015 Im D14/138 G
D742,347 S * 11/2015 Kim D14/138 G
D743,366 S * 11/2015 Ryu D14/138 G
D744,992 S * 12/2015 Lee D14/248
D746,245 S * 12/2015 Ryu D14/138 G
D750,588 S * 3/2016 Kim D14/138 G
D755,151 S * 5/2016 Kim D14/138 G
D776,075 S * 1/2017 Kim D14/138 G
D782,456 S * 3/2017 Park D14/248
D783,557 S * 4/2017 Lee D14/138 G
D783,561 S * 4/2017 Lee D14/138 G
D783,567 S * 4/2017 Park D14/138 G
D783,586 S * 4/2017 Park D14/248
D784,279 S * 4/2017 Lee D14/138 G
D786,848 S * 5/2017 Park D14/248
D788,089 S * 5/2017 Park D14/248
D791,112 S * 7/2017 Park D14/248
D797,088 S * 9/2017 Lee D14/248
D797,090 S * 9/2017 Lee D14/248
D797,726 S * 9/2017 Lee D14/341
D798,853 S * 10/2017 Park D14/248
D800,681 S * 10/2017 Kim D14/138 AA
D801,297 S * 10/2017 Song D14/138 G
D806,705 S * 1/2018 Akana D14/341
D812,585 S * 3/2018 Song D14/138 G
D813,186 S * 3/2018 Lee D14/138 G
D815,056 S * 4/2018 Song D14/138 G
D816,649 S * 5/2018 Song D14/248
D817,912 S * 5/2018 Choi D14/138 G
D818,462 S * 5/2018 Choi D14/248
D821,348 S * 6/2018 Song D14/138 G
D828,820 S * 9/2018 Song D14/138 G
D831,603 S * 10/2018 Ryu D14/138 G
D831,604 S * 10/2018 Ryu D14/138 G
D831,605 S * 10/2018 Baik D14/138 G
D833,407 S * 11/2018 Kim D14/138 G
D836,094 S * 12/2018 Park D14/248
D839,848 S * 2/2019 Baik D14/138 G
D840,383 S * 2/2019 Ryu D14/248
D840,962 S * 2/2019 Song D14/138 G
D840,963 S * 2/2019 Song D14/138 G
D847,776 S * 5/2019 Ryu D14/138 G
D849,707 S * 5/2019 Choi D14/138 G
D849,709 S * 5/2019 Choi D14/138 G
2013/0033434 A1 * 2/2013 Richardson G06F 3/0488
345/173
2015/0229745 A1 * 8/2015 De Wind H04M 1/026
455/575.8
2015/0298838 A1 * 10/2015 Liang B65B 33/02
156/391
2016/0234361 A1 * 8/2016 Baek H04M 1/0262
2016/0234362 A1 * 8/2016 Moon H04M 1/0202
2016/0357323 A1 * 12/2016 Kim G06F 3/0488



2016/0370200	A1*	12/2016	LeBeau	G01C 21/265
2017/0063421	A1*	3/2017	Moon	H04B 1/3888
2017/0102872	A1*	4/2017	Kim	G06F 3/04886
2017/0205927	A1*	7/2017	Lee	H01L 51/5237
2017/0302771	A1*	10/2017	Kim	H01Q 9/42
2017/0331507	A1*	11/2017	Berneth	H04B 1/3888
2017/0374752	A1*	12/2017	Kim	H01L 51/524
2018/0033571	A1*	2/2018	Choi	G06F 3/0202
2018/0131087	A1*	5/2018	Kim	H01Q 1/526
2019/0012544	A1*	1/2019	Park	G06K 9/00604

FOREIGN PATENT DOCUMENTS

CN	302063811	9/2012
CN	302543045	8/2013
CN	303102156	2/2015
CN	303308883	7/2015
CN	303710873	* 12/2015
CN	303710990	6/2016
CN	303739031	7/2016
CN	303774538	8/2016
CN	304168219	* 8/2016
CN	303932209	11/2016
CN	303932212	11/2016
CN	303949370	11/2016

OTHER PUBLICATIONS

Apple iPhone 8 to Samsung Galaxy S8 The bezel-less smartphones are coming, The Indian Express, Nov. 21, 2016, [online], [site visited Jul. 18, 2017]. Retrieved from url:<http://indianexpress.com/article/technology/mobile-tabs/apple-iphone-8-to-samsung-galaxy-s8-top-smartphones-rumoured-to-launch-with-bezel-less-design-4385523/>.*

iPhone Edition 2017 Concept Imagined by Benjamin Geskin, Looking Hot, Kelvin, Mar. 10, 2017, [online], [site visited Jul. 18, 2017]. Retrieved from url:<https://www.concept-phones.com/apple/iphone-edition-2017-concept-imagined-benjamin-geskin-hot/>.*

LG G6, Mar. 2017, [online], [site visited Jul. 17, 2017]. Retrieved from url:http://www.gsmarena.com/lg_g6-pictures-8466.php.*

Samsung Galaxy S6 edge, Apr. 2015, [online], [site visited Jul. 17, 2017]. Retrieved from url:http://www.gsmarena.com/samsung_galaxy_s6_edge-pictures-7079.php.*

Samsung Galaxy S7 edge, Mar. 2016, [online], [site visited Jul. 17, 2017]. Retrieved from url:http://www.gsmarena.com/samsung_galaxy_s7_edge-pictures-7045.php.*

Samsung Galaxy s7 Introduction, Jermain Smit, Nov. 22, 2015, [online], [site visited Jul. 18, 2017]. Retrieved from url:<https://www.youtube.com/watch?v=Ye2oPNxhZGw>.*

Samsung Galaxy S8 Gets Beautiful 3D Render, Courtesy of Designer Kingway Lee, Concept Phones, Jan. 23, 2017 [online], [site visited Jul. 14, 2017]. Retrieved from url:<https://www.concept-phones.com/samsung/samsung-galaxy-s8-beautiful-3d-render-courtesy-designer-kingway-lee/>.*

Samsung Galaxy S8 to come with futuristic all-screen bezel-less display, but no dual camera planned, Victor H., Dec. 8, 2016, [online], [site visited Jul. 18, 2017]. Retrieved from url:https://www.phonearena.com/news/Samsung-Galaxy-S8-to-come-with-futuristic-all-screen-bezel-less-display-but-no-dual-camera-planned_id88794.*

Samsung Galaxy S8 shown at Evan Blass' @evleaks Twitter, Mar. 21, 2017, [online], [site visited Jul. 17, 2017]. Retrieved from url:<https://twitter.com/evleaks/status/844329793982287873>.*

Samsung Galaxy S8, Apr. 2017, [online], [site visited Jul. 17, 2017]. Retrieved from url:http://www.gsmarena.com/samsung_galaxy_s8-pictures-8161.php.*

This is the Samsung Galaxy S8, launching Mar. 29, VentureBeat Mobile, Evan Blass, [Jan. 26, 2017, [online], [site visited Jul. 17, 2017]. Retrieved from url:<https://venturebeat.com/2017/01/26/this-is-the-samsung-galaxy-s8-launching-march-29/>.*

Vivo Xplay5, Mar. 2016, [online], [site visited Jul. 17, 2017]. Retrieved from url:http://www.gsmarena.com/vivo_xplay5-pictures-7966.php.*

Xiaomi Mi MIX 2 i is Finally Ready, Concept Phones, Kelvin, Mar. 18, 2017, [online], [site visited Jul. 18, 2017]. Retrieved from url:<https://www.concept-phones.com/xiaomi/xiaomi-mi-mix-2-finally-ready-designed-concept-creator-video/>.*

Xiaomi Mi Mix, Nov. 2016, [online], [site visited Jul. 17, 2017]. Retrieved from url:http://www.gsmarena.com/xiaomi_mi_mix-pictures-8400.php.*

Xiaomi Mi Note 2, Nov. 2016, [online], [site visited Jul. 17, 2017]. Retrieved from url:http://www.gsmarena.com/xiaomi_mi_note_2-pictures-8014.php.*

Galaxy S7 Edge concepts have us salivating for Samsung's new flagship, Todd Haselton on Technobuffalo, Oct. 4, 2015, [site visited Jun. 29, 2018]. Retrieved from url:<https://www.technobuffalo.com/2015/10/04/galaxy-s7-edge-concepts-have-us-salivating-for-samsungs-new-flagship/> (Year: 2015).*

LG V30S ThinQ, Mar. 31, 2018, [online], [site visited Jun. 28, 2018]. Retrieved from url:https://www.gsmarena.com/lg_v30s_thinq-pictures-9090.php (Year: 2018).*

Nokia 8 Sirocco, Apr. 30, 2018, [online], [site visited Jun. 28, 2018]. Retrieved from url:https://www.gsmarena.com/nokia_8_sirocco-pictures-9087.php (Year: 2018).*

Samsung Galaxy S9, Mar. 31, 2018, [online], [site visited Jun. 28, 2018]. Retrieved from url:https://www.gsmarena.com/samsung_galaxy_s9+-pictures-8967.php (Year: 2018).*

Samsung Galaxy S9 plus, Mar. 31, 2018, [online], [site visited Jun. 28, 2018]. Retrieved from url:https://www.gsmarena.com/samsung_galaxy_s9+-pictures-8967.php (Year: 2018).*

Samsung Galaxy S Light Luxury, May 31, 2018, [online], [site visited Jun. 28, 2018]. Retrieved from url:https://www.gsmarena.com/samsung_galaxy_s_light_luxury-pictures-9202.php (Year: 2018).*

Galaxy A8 Star (A9 Star), no date available, [online], [site visited Jun. 28, 2018]. Retrieved from url:[https://www.gsmarena.com/samsung-galaxy_a8_star_\(a9_star\)-pictures-9220.php](https://www.gsmarena.com/samsung-galaxy_a8_star_(a9_star)-pictures-9220.php) (Year: 2018).*

Jed John on the GizmoChina website, Jan. 18, 2017, [online], [site visited Jul. 3, 2018]. Retrieved from url:<https://www.gizmochina.com/2017/01/18/samsung-galaxy-s8-alleged-display-panels-leak/> (Year: 2017).*

Ben Geskin on Twitter, Mar. 5, 2017, [online], [site visited Jul. 3, 2018]. Retrieved from url:<https://twitter.com/VenyaGeskin1/status/838319292533850112> (Year: 2017).*

Huawei Mate RS Porsche Design, Apr. 2018, [online], [site visited Mar. 7, 2019]. Retrieved from url:https://www.gsmarena.com/huawei_mate_rs_porsche_design-pictures-9141.php (Year: 2018).*

Kelvin, "LG G Edge is a Fancy Looking Smartphone, Right Out of Samsung's Playback (Video)," <https://www.concept-phones.com/tag/lg-dual-curved-edge-phone/>, Sep. 8, 2015, Date Accessed: May 26, 2017.

Daniel Gubalane, "Cherry Mobile Launches Flare Infinity with True Borderless Display," <https://web.archive.org/web/20161019153753/http://www.pinoytechnoguide.com/2016/10/cherry-mobile-flare-infinity-borderless-display.html>, Oct. 19, 2016, Date Accessed: May 26, 2017.

Sing Tech IT & Communications, "Infinity L1 Plus," <https://web.archive.org/web/20160630035719/http://www.singtech.asia:80/product/infinity-l1-plus/>, Jun. 30, 2016, Date Accessed: May 26, 2017.

Tech Desk, "Apple iPhone 8 to Samsung Galaxy S8: The bezel-less smartphones are coming," The Indian Express Mobile & Tabs, Nov. 21, 2016, Date Accessed: May 26, 2017.

Alan F, "Sharp's new Corner R concept phone sports a bezel-less curved edge display," Phonearea, Oct. 6, 2016, Date Accessed: May 26, 2017.

Paul Miller, "I just like thinking about a bezel-less iPhone," Theverge, Jun. 6, 2016, Date Accessed: May 26, 2017.

Todd Haselton, "Stunning iPhone 8 concept has zero bezels, no home button," Technobuffalo, Nov. 1, 2016, Date Accessed: May 26, 2017.

Matt Swayne, "Bigger smartphone screens can change customer's buying intentions," Economics & Business, <http://www.phys.org>, Nov. 25, 2015, Date Accessed: May 26, 2017.

Tech Desk, "Xiaomi Mi Note 2 leaked pictures reveal ultra-thin bezel: Report," The Indian Express Mobile & Tabs, Oct. 19, 2016, Date Accessed: May 26, 2017.

Victor H, "LG demonstrates 5-inch display with almost no bezel," Phonearena, May 23, 2013, Date Accessed: May 26, 2017.
Adrian Diaconescu, "Top Android smartphones with the highest screen-to-body ratio," TheDroidGuy, May 19, 2015, Date Accessed: May 26, 2017.

* cited by examiner

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Assistant Examiner — Tracey J Bell
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(57)

CLAIM

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

DESCRIPTION

FIG. 1 is a front perspective view of an electronic device showing our new design;

FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a left side elevation view thereof;
FIG. 5 is a right side elevation view thereof;
FIG. 6 is a top plan view thereof;
FIG. 7 is a bottom plan view thereof; and,
FIG. 8 is a rear perspective view thereof.

The evenly-spaced dashed broken lines in the figures depict portions of the electronic device that form no part of the claimed design. The unevenly-spaced dot-dash broken lines in the figures define boundaries of the claimed design and form no part of the claimed design. The appearance of any portion of the article between the pairs of dot-dash broken lines forms no part of the claimed design.

1 Claim, 8 Drawing Sheets

FIG. 1

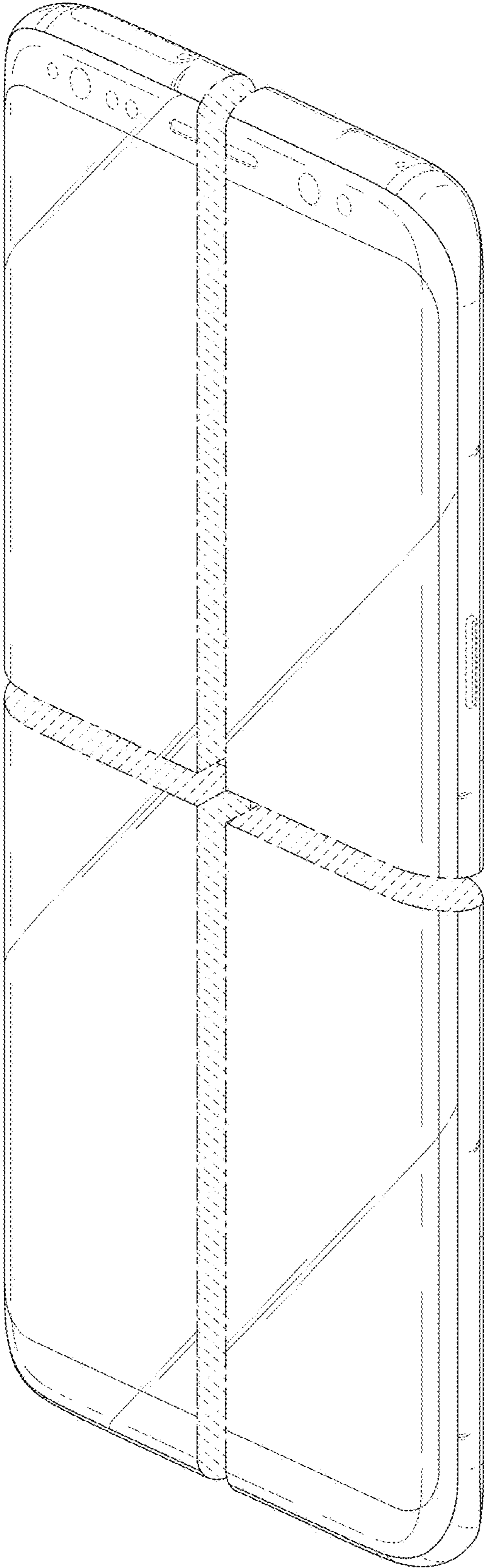


FIG. 2

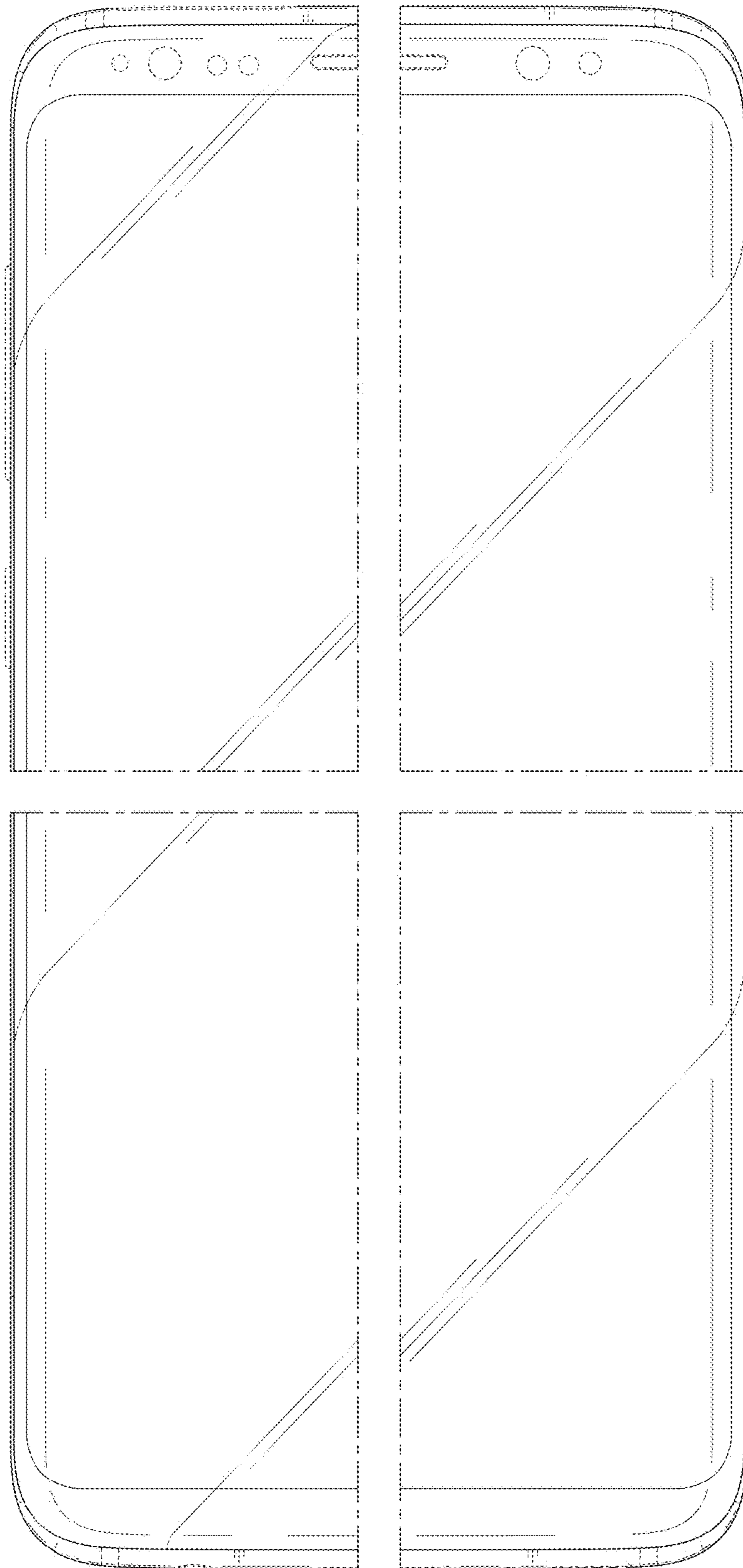


FIG. 3

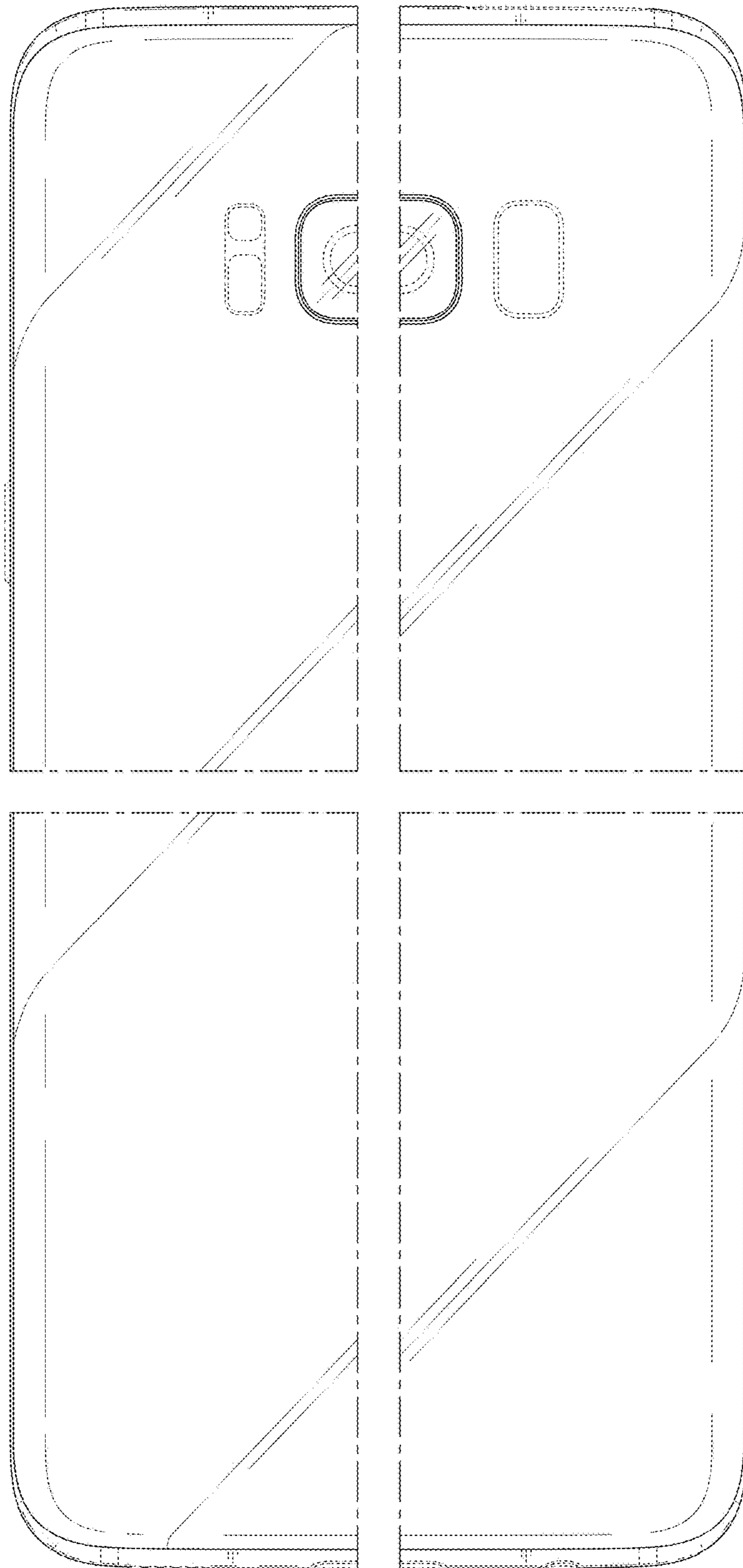


FIG. 4

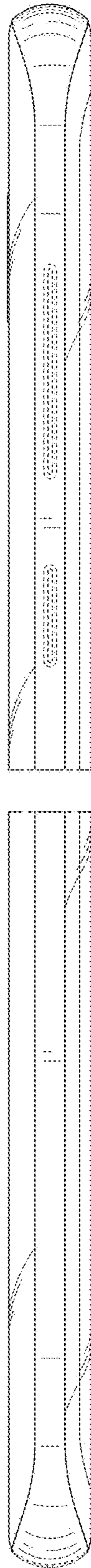


FIG. 5

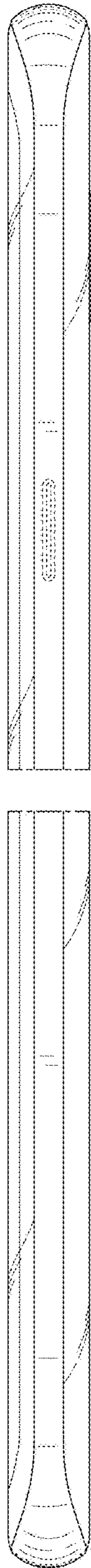


FIG. 6

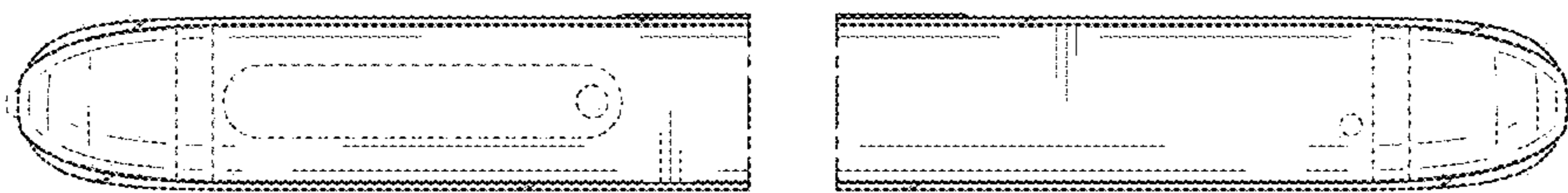


FIG. 7

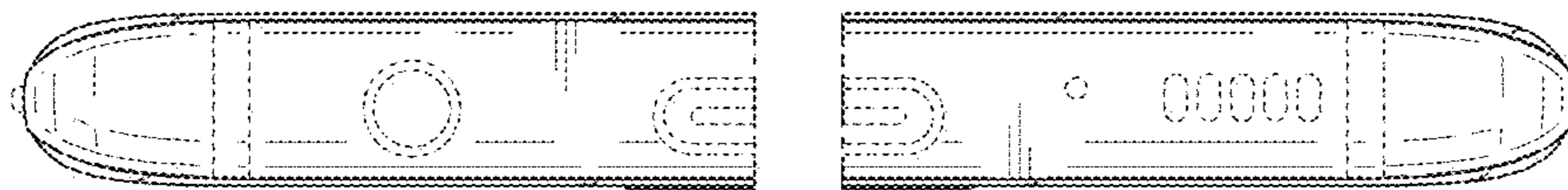


FIG. 8

