

US00D862406S

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

(10) **Patent No.:** **US D862,406 S**

(45) **Date of Patent:** **\*\* \*Oct. 8, 2019**

(54) **ELECTRONIC DEVICE**

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

(72) Inventors: **Hyok-Su Choi**, Seoul (KR);  
**Hyoung-Shin Park**, Seongnam-si (KR);  
**Yun-Jin Kim**, Seoul (KR)

(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**,  
Suwon-si (KR)

(\*) Notice: This patent is subject to a terminal disclaimer.

(\*\*) Term: **15 Years**

(21) Appl. No.: **29/604,392**

(22) Filed: **May 17, 2017**

(51) **LOC (12) Cl.** ..... **14-03**

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

(58) **Field of Classification Search**  
USPC ..... D14/138 AA, 138 AB, 138 AC, 138 AD,  
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;  
H04M 1/0295; G06K 9/00006; G06F  
1/1652; G06F 1/1626

See application file for complete search history.

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	

(56) **References Cited**

U.S. PATENT DOCUMENTS

D687,800 S \* 8/2013 Lee ..... D14/138 G

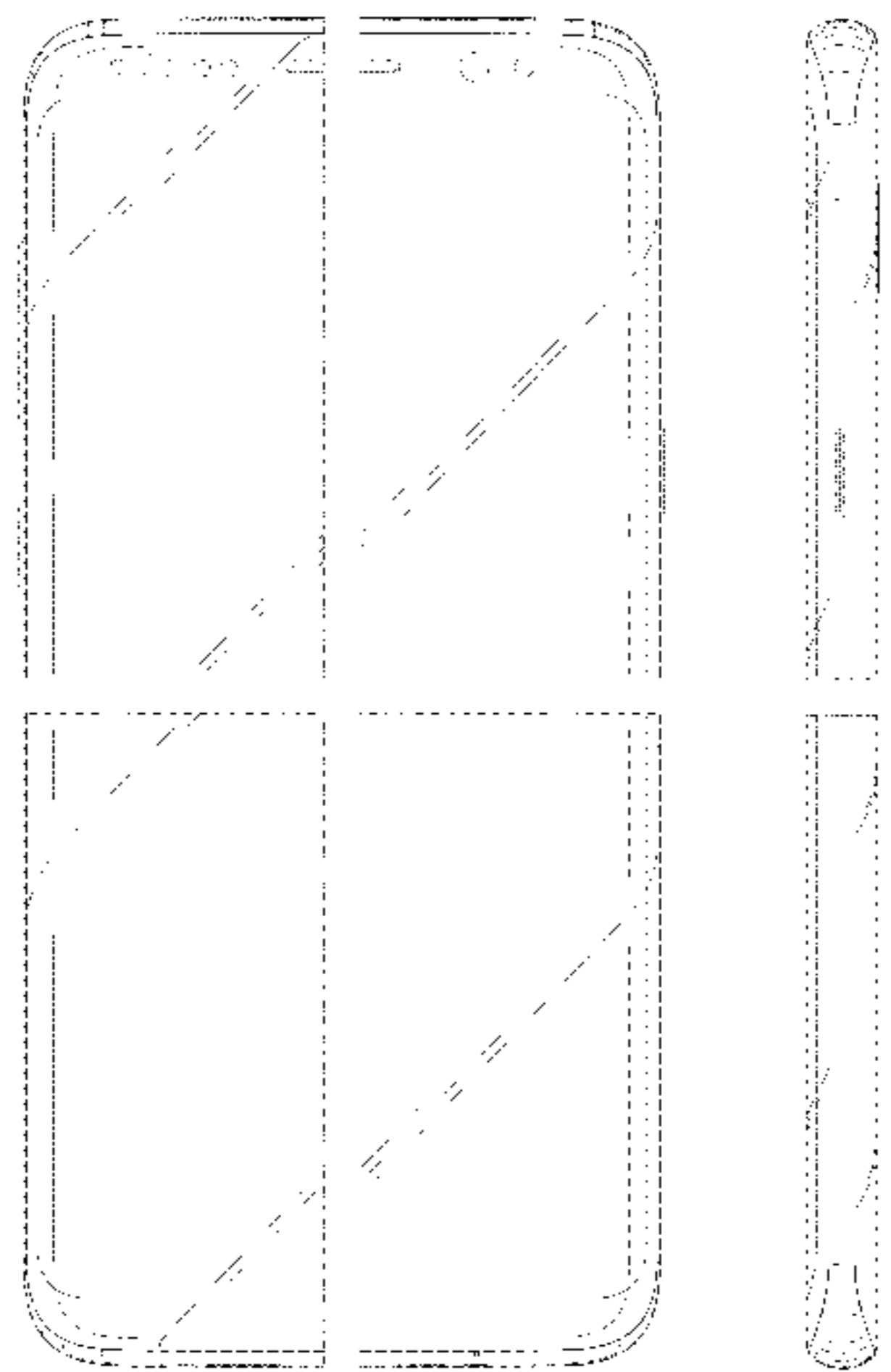
8,554,285 B2 \* 10/2013 Kim ..... G06F 1/1615

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



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](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](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](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](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](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](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](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](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](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](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](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](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](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](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

*Primary Examiner* — Jeffrey D Asch  
*Assistant Examiner* — Tracey J Bell  
(74) *Attorney, Agent, or Firm* — McAndrews Held & Malloy, Ltd.

(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

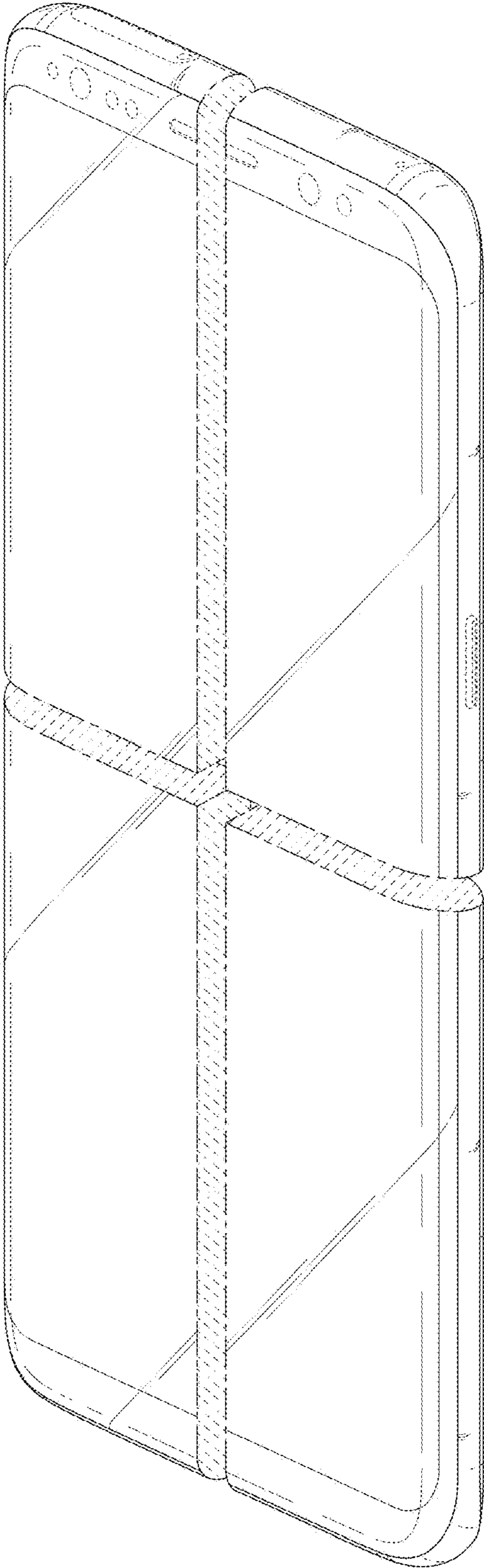


FIG. 2

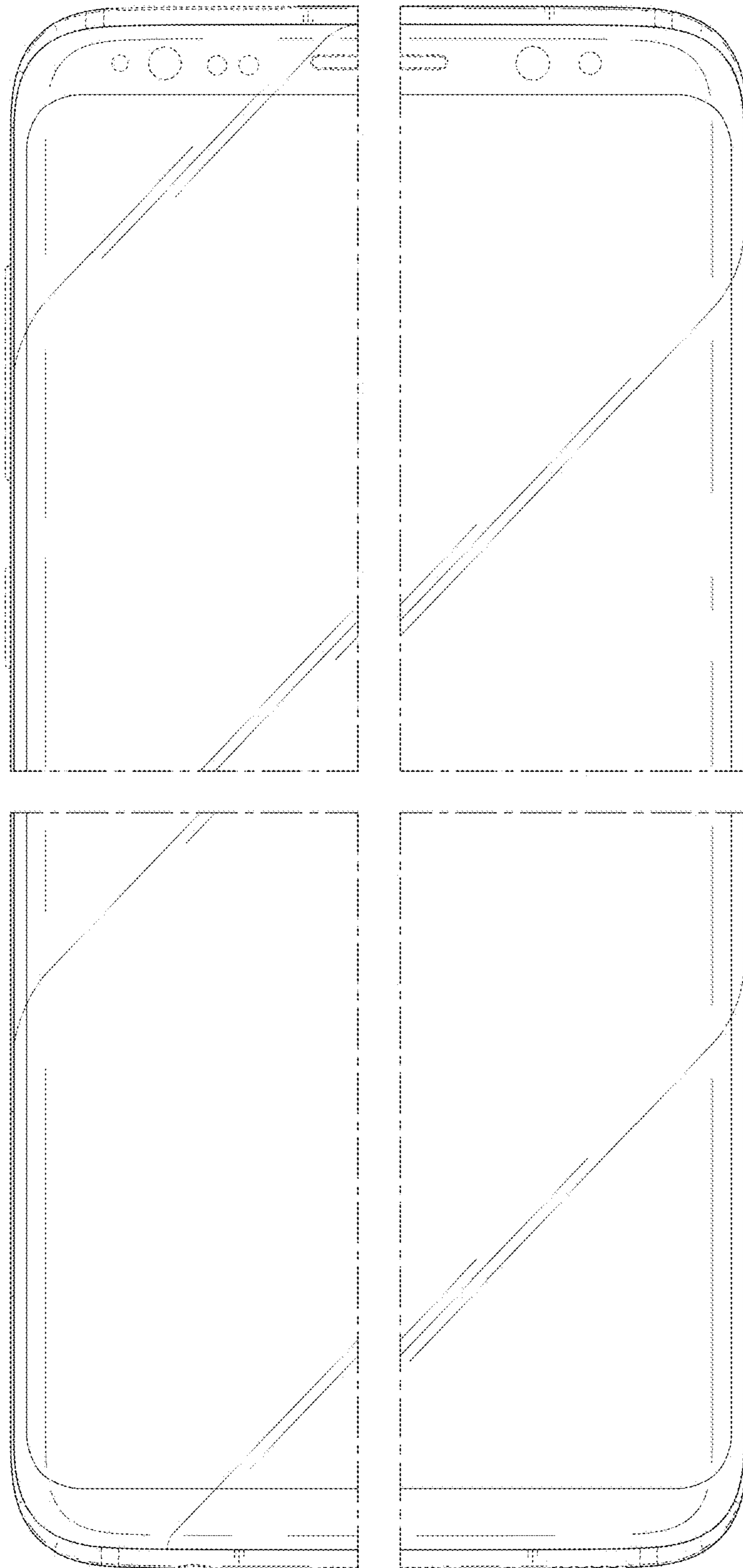


FIG. 3

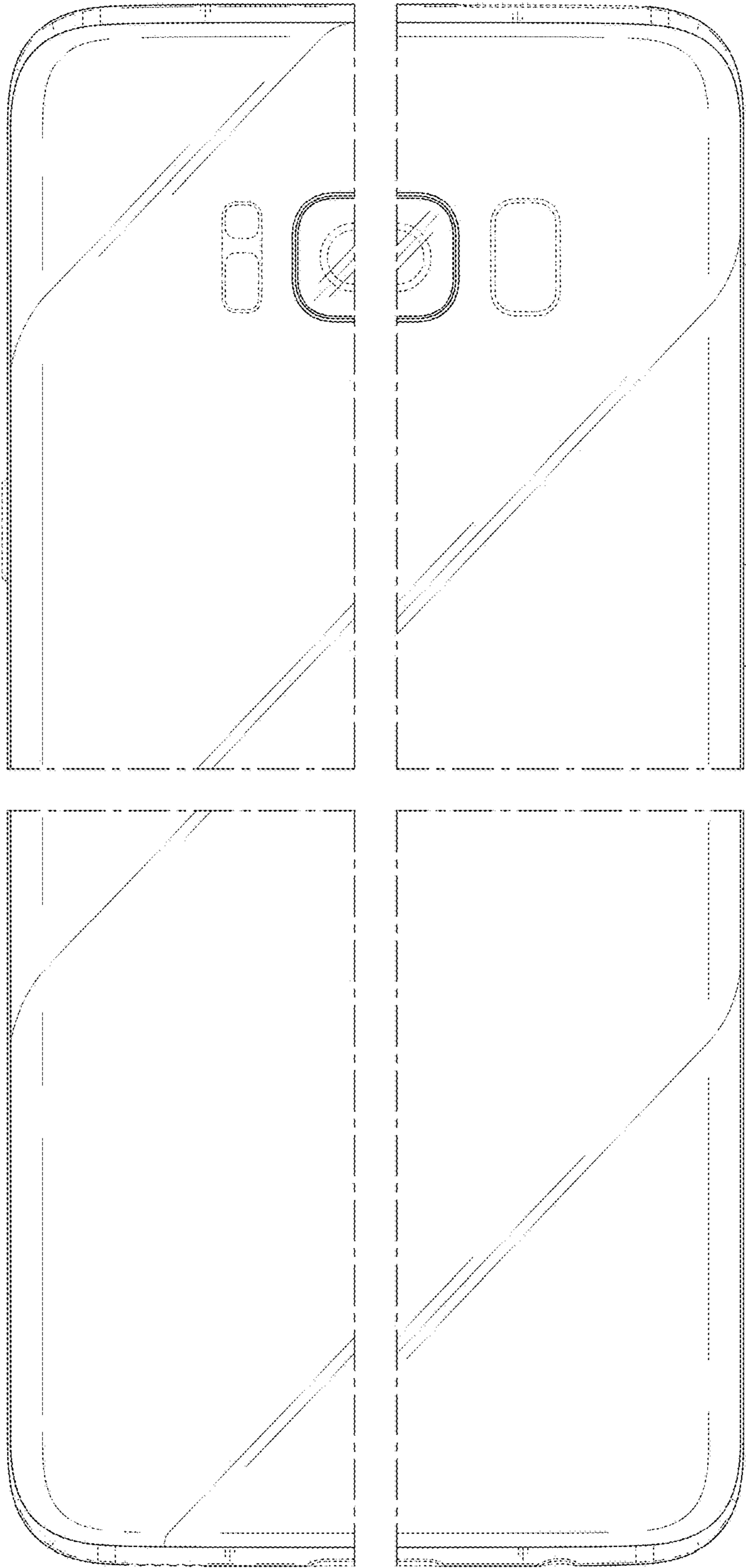


FIG. 4

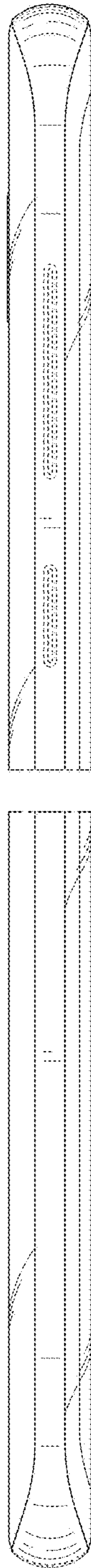


FIG. 5

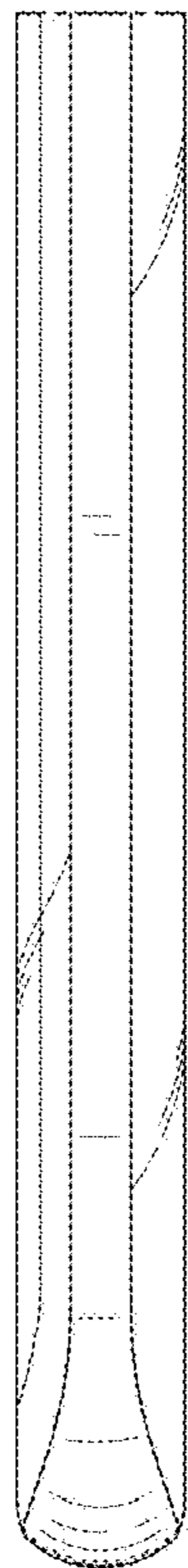
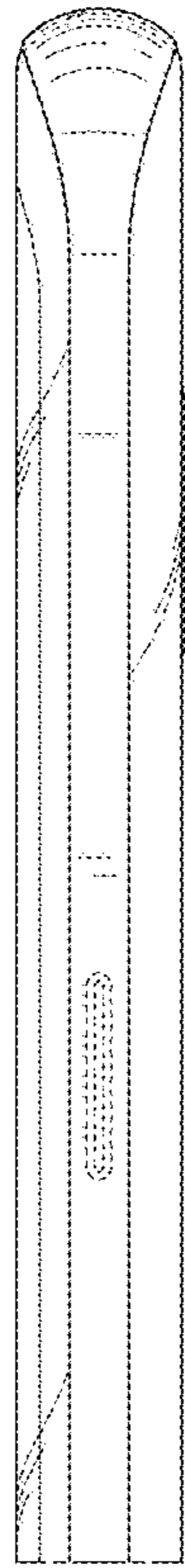




FIG. 6

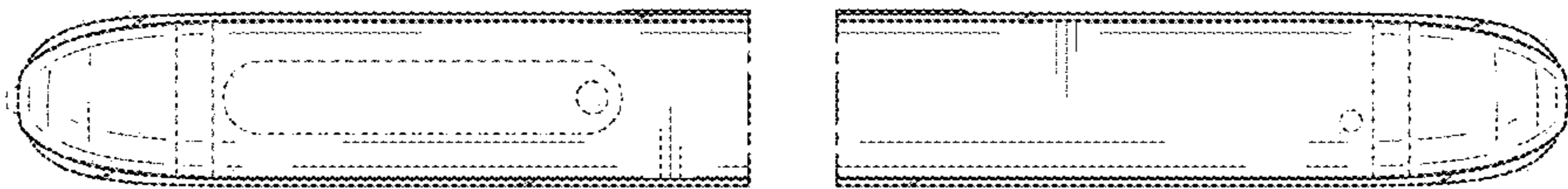


FIG. 7

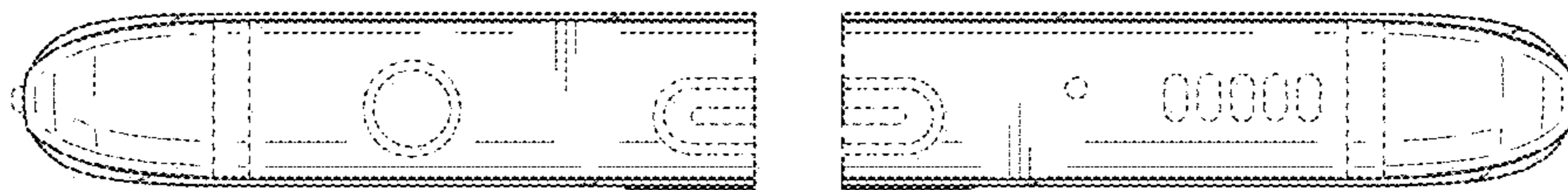


FIG. 8

