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

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(54) **MOBILE PHONE**

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

(72) Inventors: **Youngjun Cho**, Suwon-si (KR);  
**Sanghoon Song**, Gumi-si (KR);  
**Junyoung Lee**, Seoul (KR); **Munhee**  
**Jang**, Yongin-si (KR); **Youn-Gun Jung**,  
Suwon-si (KR); **Yoonyoung Choi**,  
Seoul (KR)

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

(\*) Notice: This patent is subject to a terminal dis-  
claimer.

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

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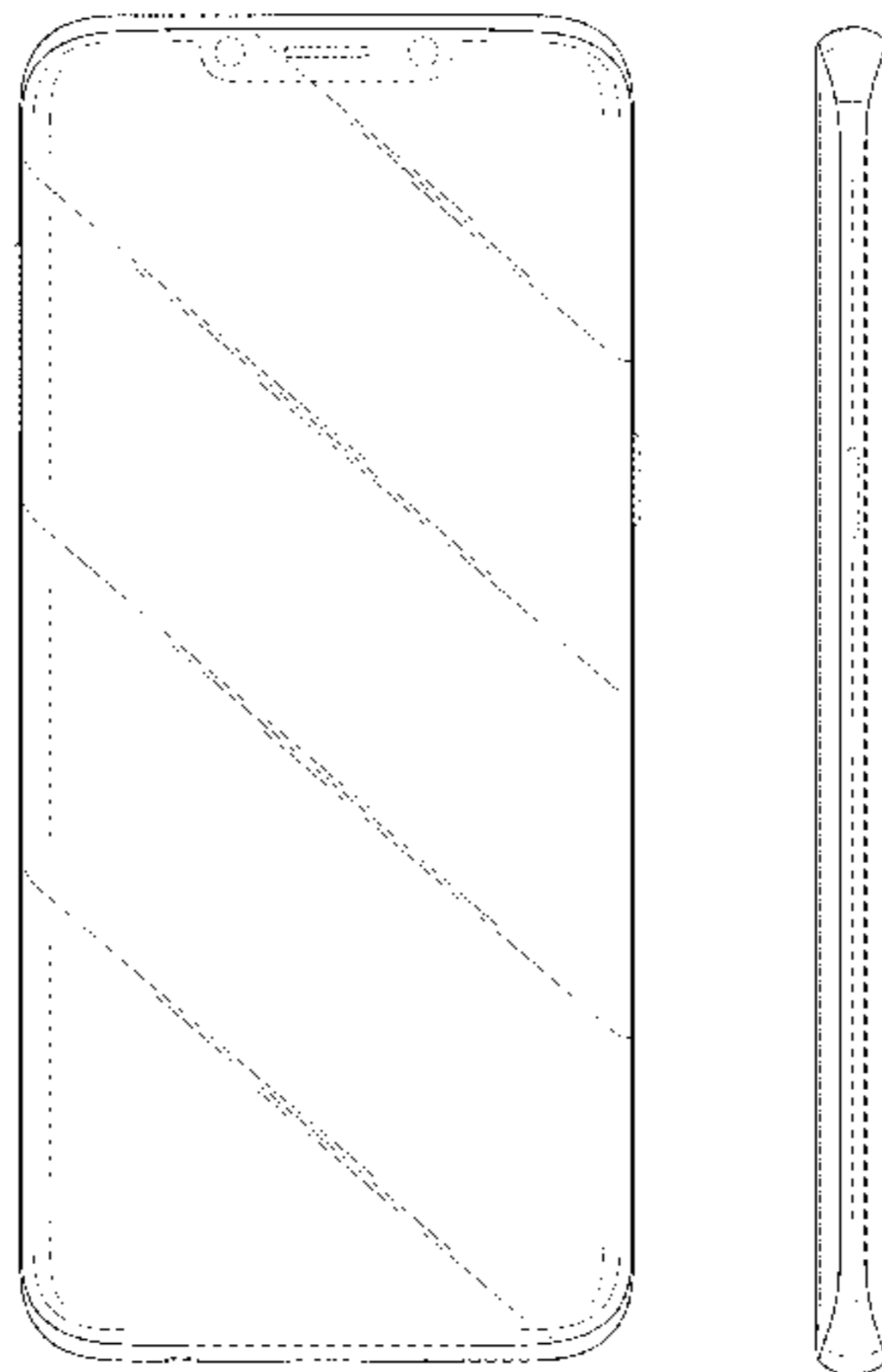
(51) **LOC (12) Cl.** ..... **14-03**

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

(58) **Field of Classification Search**  
USPC ..... D14/138 G, 138 AD, 341, 138 R, 496,  
D14/203.1, 203.3, 203.5, 203.7, 248;  
455/575.1, 556.2; D21/517, 329;  
361/679.3, 679.56  
CPC . G06F 1/1626; H04M 1/0266; H04M 1/0202;  
H04M 1/026  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
D568,285 S \* 5/2008 Lee ..... D14/138 G  
D609,680 S \* 2/2010 Kim ..... D14/138 AD

D616,852 S \* 6/2010 Kim ..... D14/138 AD  
D622,246 S \* 8/2010 Lee ..... D14/138 AD  
8,437,811 B2 \* 5/2013 Park ..... H04M 1/035  
455/575.1  
D693,785 S \* 11/2013 Sutherland ..... D14/138 G  
D695,704 S \* 12/2013 Kim ..... D14/138 G  
D701,191 S \* 3/2014 Suk ..... D14/138 G  
D714,768 S \* 10/2014 Park ..... D14/248  
8,976,523 B2 \* 3/2015 Song ..... H05K 5/0239  
361/679.56  
D728,505 S \* 5/2015 Chung ..... D14/138 G  
D752,036 S \* 3/2016 Ho ..... D14/341  
D775,600 S \* 1/2017 Kim ..... D14/138 G  
D782,457 S \* 3/2017 Park ..... D14/248  
D783,567 S \* 4/2017 Park ..... D14/138 G  
D790,535 S \* 6/2017 Akana ..... D14/341  
D794,594 S \* 8/2017 Seo ..... D14/138 G  
D796,469 S \* 9/2017 Jin ..... D14/138 G  
D797,071 S \* 9/2017 Seo ..... D14/138 G  
D800,716 S \* 10/2017 Akana ..... D14/341  
D801,297 S \* 10/2017 Song ..... D14/138 G  
D801,959 S \* 11/2017 Kuo ..... D14/248  
D803,209 S \* 11/2017 Akana ..... D14/341  
D806,705 S \* 1/2018 Akana ..... D14/341  
D810,726 S \* 2/2018 Chou ..... D14/248  
D817,912 S \* 5/2018 Choi ..... D14/138 G  
D819,591 S \* 6/2018 Kwon ..... D14/138 G  
D824,874 S \* 8/2018 You ..... D14/138 G  
D828,820 S \* 9/2018 Song ..... D14/138 G  
D831,605 S \* 10/2018 Baik ..... D14/138 G  
D832,805 S \* 11/2018 Xu ..... D14/138 G  
D832,835 S \* 11/2018 Akana ..... D14/341  
D833,407 S \* 11/2018 Kim ..... D14/138 G  
D834,552 S \* 11/2018 Ryu ..... D14/138 G  
D834,553 S \* 11/2018 Depape ..... D14/138 G  
D837,175 S \* 1/2019 Ryu ..... D14/138 G  
D839,230 S \* 1/2019 Ryu ..... D14/138 G  
D839,231 S \* 1/2019 Zhang ..... D14/138 G  
D839,848 S \* 2/2019 Baik ..... D14/138 G  
D843,964 S \* 3/2019 Forsyth ..... D14/138 G  
D849,709 S \* 5/2019 Choi ..... D14/138 G  
D850,401 S \* 6/2019 Fan ..... D14/138 G  
D850,402 S \* 6/2019 Cho ..... D14/138 G  
D851,076 S \* 6/2019 Mu ..... D14/248  
D852,177 S \* 6/2019 Cho ..... D14/248  
D852,769 S \* 7/2019 Li ..... D14/138 G  
D853,980 S \* 7/2019 Kim ..... D14/138 G  
10,356,500 B2 \* 7/2019 Kim ..... H04R 1/025  
2014/0284096 A1 \* 9/2014 Wu ..... H05K 5/04  
174/520  
2016/0224075 A1 \* 8/2016 Chen ..... G06F 1/1656  
2017/0289324 A1 \* 10/2017 Yeo ..... G03B 29/00  
2018/0070465 A1 \* 3/2018 Cater ..... G06F 1/1626



2018/0098448	A1 *	4/2018	Baek .....	H05K 5/0217
2018/0176348	A1 *	6/2018	Bao .....	H04M 1/0249
2018/0177082	A1 *	6/2018	Wei .....	H04N 5/2253
2018/0183151	A1 *	6/2018	Zhao .....	H01Q 13/10
2018/0183910	A1 *	6/2018	Wu .....	H01Q 5/50
2018/0198897	A1 *	7/2018	Tang .....	H04N 5/2258
2018/0247582	A1 *	8/2018	Park .....	G02F 1/133308
2018/0324287	A1 *	11/2018	Zhou .....	H04M 1/0264
2019/0072997	A1 *	3/2019	Cha .....	G06F 1/1626
2019/0148816	A1 *	5/2019	Chen .....	H01Q 1/243
2019/0158641	A1 *	5/2019	Kim .....	H04M 1/0264
2019/0196248	A1 *	6/2019	Cheng .....	G06F 1/1637

FOREIGN PATENT DOCUMENTS

CN	303596714	*	2/2016
CN	303932034	*	11/2016
CN	304081440	*	3/2017
CN	304081491	*	3/2017
CN	304095938	*	4/2017
CN	304104348	*	4/2017
CN	304104370	*	4/2017
CN	304117892	*	4/2017
CN	304180223	*	6/2017
CN	304180224	*	6/2017
CN	304180234	*	6/2017
JP	D1614318	*	9/2018

OTHER PUBLICATIONS

Samsung Galaxy S8, released Apr. 2017, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/samsung\\_galaxy\\_s8-pictures-8161.php](https://www.gsmarena.com/samsung_galaxy_s8-pictures-8161.php).\*

Apple iPhone X, released Oct. 2017, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/apple\\_iphone\\_x-pictures-8858.php](https://www.gsmarena.com/apple_iphone_x-pictures-8858.php).\*

Huawei Mate 9 Porsche Design, released Jan. 2017, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/huawei\\_mate\\_9\\_porsche\\_design-pictures-8415.php](https://www.gsmarena.com/huawei_mate_9_porsche_design-pictures-8415.php).\*

Samsung Galaxy S9, released Mar. 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/samsung\\_galaxy\\_s9-pictures-8966.php](https://www.gsmarena.com/samsung_galaxy_s9-pictures-8966.php).\*

Samsung Galaxy S Light Luxury, released May 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, 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).\*

Xiaomi Mi 8 Lite, released Sep. 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/xiaomi\\_mi\\_8\\_lite-pictures-9329.php](https://www.gsmarena.com/xiaomi_mi_8_lite-pictures-9329.php).\*

OnePlus 6, released May 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/oneplus\\_6-pictures-9109.php](https://www.gsmarena.com/oneplus_6-pictures-9109.php).\*

Asus Zenfone Max Pro (M2) ZB631KL, released Dec. 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/asus\\_zenfone\\_max\\_pro\\_\(m2\)\\_zb631kl-pictures-9410.php](https://www.gsmarena.com/asus_zenfone_max_pro_(m2)_zb631kl-pictures-9410.php).\*

LG G7 ThinQ, released May 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/lg\\_g7\\_thinq-pictures-9115.php](https://www.gsmarena.com/lg_g7_thinq-pictures-9115.php).\*

Nokia 8.1 (Nokia X7), released Dec. 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/noki\\_8\\_1\\_\(nokia\\_x7\)-pictures-9342.php](https://www.gsmarena.com/noki_8_1_(nokia_x7)-pictures-9342.php).\*

Huawei P20 lite, released Mar. 2018, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/huawei\\_p20\\_lite-pictures-9098.php](https://www.gsmarena.com/huawei_p20_lite-pictures-9098.php).\*

Samsung Galaxy Note8, released Sep. 2017, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/samsung\\_galaxy\\_note8-pictures-8505.php](https://www.gsmarena.com/samsung_galaxy_note8-pictures-8505.php).\*

Samsung Galaxy Note7, released Sep. 2016, [online], [site visited Dec. 30, 2018]. Available from Internet, URL: [https://www.gsmarena.com/samsung\\_galaxy\\_note7-pictures-8082.php](https://www.gsmarena.com/samsung_galaxy_note7-pictures-8082.php).\*

2018 Samsung Galaxy Note 9 Rendered by Benjamin Geskin, by Kelvin, posted Aug. 3, 2017, [online], [site visited Feb. 18, 2019].

Available from Internet, URL: <https://www.concept-phones.com/samsung/2018-samsung-galaxy-note-9-rendered-benjamin-geskin/>.\*

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/>.\*

This iPhone 8 Leak Will Leave You Drooling After The New Bezelless Design, by Saruni Maina, Jun. 7, 2017, [online], [site visited May 30, 2019]. Retrieved from URL: <https://techweez.com/2017/06/07/iphone-8-leak-bezelless-design/>.\*

\* cited by examiner

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

(57) **CLAIM**

The ornamental design for a mobile phone, as shown and described.

**DESCRIPTION**

FIG. 1 is a front perspective view of a mobile phone showing our new design according to a first embodiment;

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;

FIG. 8 is a rear perspective view thereof;

FIG. 9 is an enlarged view of the encircled portion of FIG. 8;

FIG. 10 is a front perspective view of a mobile phone showing our new design according to a second embodiment;

FIG. 11 is a front elevation view thereof;

FIG. 12 is a rear elevation view thereof;

FIG. 13 is a left side elevation view thereof;

FIG. 14 is a right side elevation view thereof;

FIG. 15 is a top plan view thereof;

FIG. 16 is a bottom plan view thereof;

FIG. 17 is a rear perspective view thereof;

FIG. 18 is an enlarged view of the encircled portion of FIG. 17;

FIG. 19 is a front perspective view of a mobile phone showing our new design according to a third embodiment;

FIG. 20 is a front elevation view thereof;

FIG. 21 is a rear elevation view thereof;

FIG. 22 is a left side elevation view thereof;

FIG. 23 is a right side elevation view thereof;

FIG. 24 is a top plan view thereof;

FIG. 25 is a bottom plan view thereof;

FIG. 26 is a rear perspective view thereof;

FIG. 27 is an enlarged view of the encircled portion of FIG. 26;

FIG. 28 is a front perspective view of a mobile phone showing our new design according to a fourth embodiment;

FIG. 29 is a front elevation view thereof;

FIG. 30 is a rear elevation view thereof;

FIG. 31 is a left side elevation view thereof;

FIG. 32 is a right side elevation view thereof;

FIG. 33 is a top plan view thereof;

FIG. 34 is a bottom plan view thereof;

FIG. 35 is a rear perspective view thereof;

FIG. 36 is an enlarged view of the encircled portion of FIG. 35;

FIG. 37 is a front perspective view of a mobile phone showing our new design according to a fifth embodiment;

FIG. 38 is a front elevation view thereof;

FIG. 39 is a rear elevation view thereof;

FIG. 40 is a left side elevation view thereof;

FIG. 41 is a right side elevation view thereof;

FIG. 42 is a top plan view thereof;

FIG. 43 is a bottom plan view thereof;

FIG. 44 is a rear perspective view thereof;

FIG. 45 is an enlarged view of the encircled portion of FIG. 44;

FIG. 46 is a front perspective view of a mobile phone showing our new design according to a sixth embodiment;

FIG. 47 is a front elevation view thereof;

FIG. 48 is a rear elevation view thereof;

FIG. 49 is a left side elevation view thereof;

FIG. 50 is a right side elevation view thereof;

FIG. 51 is a top plan view thereof;

FIG. 52 is a bottom plan view thereof;

FIG. 53 is a rear perspective view thereof;

FIG. 54 is an enlarged view of the encircled portion of FIG. 53;

FIG. 55 is a front perspective view of a mobile phone showing our new design according to a seventh embodiment;

FIG. 56 is a front elevation view thereof;

FIG. 57 is a rear elevation view thereof;

FIG. 58 is a left side elevation view thereof;

FIG. 59 is a right side elevation view thereof;

FIG. 60 is a top plan view thereof;

FIG. 61 is a bottom plan view thereof;

FIG. 62 is a rear perspective view thereof;

FIG. 63 is an enlarged view of the encircled portion of FIG. 62;

FIG. 64 is a front perspective view of a mobile phone showing our new design according to an eighth embodiment;

FIG. 65 is a front elevation view thereof;

FIG. 66 is a rear elevation view thereof;

FIG. 67 is a left side elevation view thereof;

FIG. 68 is a right side elevation view thereof;

FIG. 69 is a top plan view thereof;

FIG. 70 is a bottom plan view thereof;

FIG. 71 is a rear perspective view thereof;

FIG. 72 is an enlarged view of the encircled portion of FIG. 71;

FIG. 73 is a front perspective view of a mobile phone showing our new design according to a ninth embodiment;

FIG. 74 is a front elevation view thereof;

FIG. 75 is a rear elevation view thereof;

FIG. 76 is a left side elevation view thereof;

FIG. 77 is a right side elevation view thereof;

FIG. 78 is a top plan view thereof;

FIG. 79 is a bottom plan view thereof;

FIG. 80 is a rear perspective view thereof; and,

FIG. 81 is an enlarged view of the encircled portion of FIG. 80.

The dashed broken lines in the drawings depict portions of the mobile phone that form no part of the claimed design. The dot-dot-dash broken lines encircling portions of the claimed design in FIGS. 8, 17, 26, 35, 44, 53, 62, 71 and 80 that are illustrated in enlarged views in FIGS. 9, 18, 27, 36, 45, 54, 63, 72, and 81, respectively, form no part of the claimed design.

**1 Claim, 72 Drawing Sheets**

FIG. 1

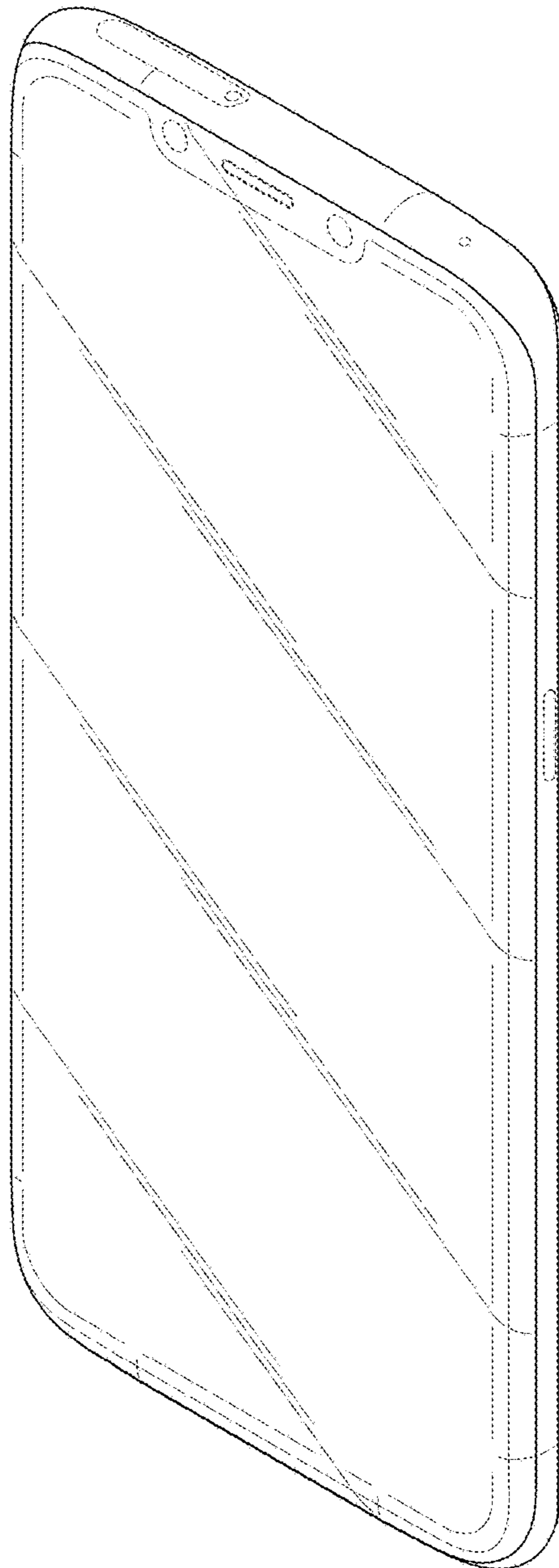


FIG. 2

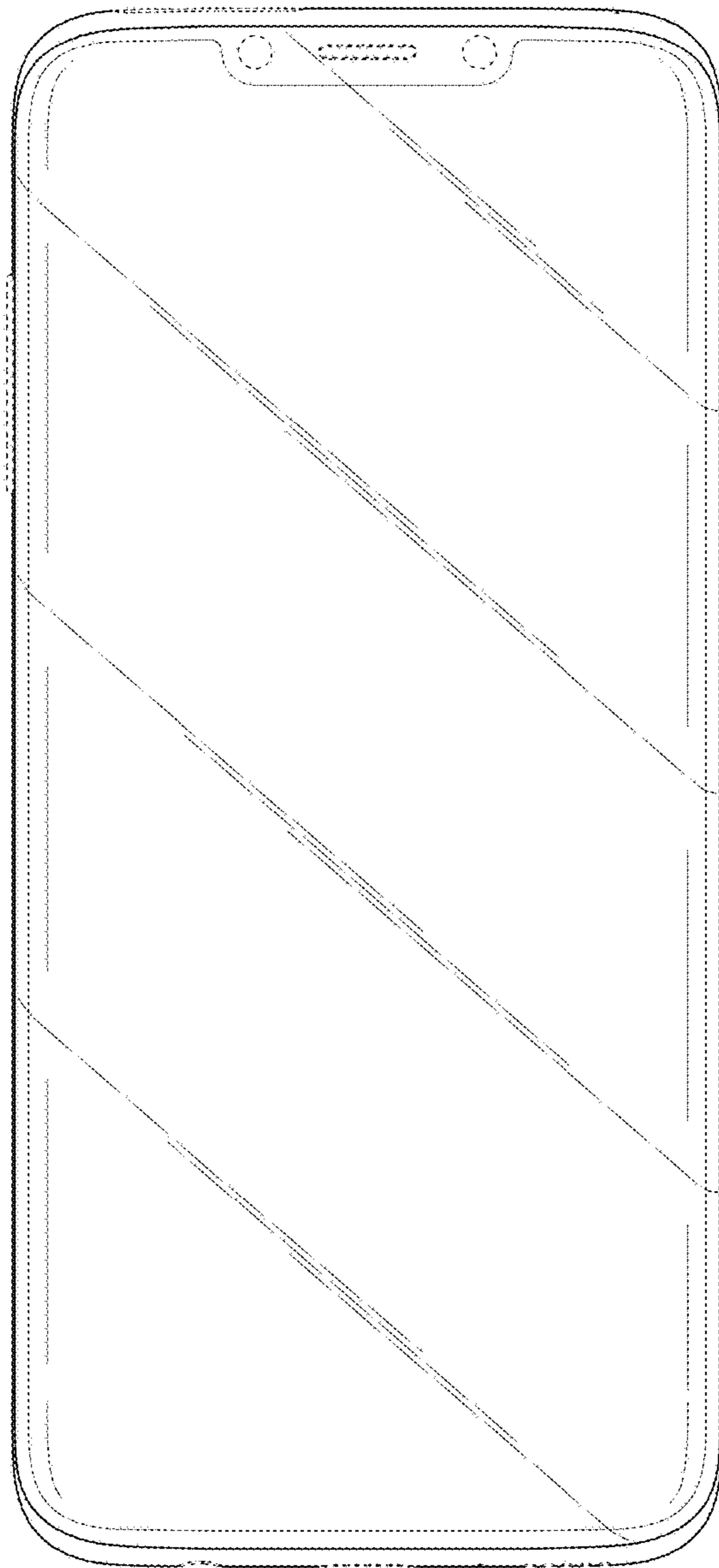


FIG. 3

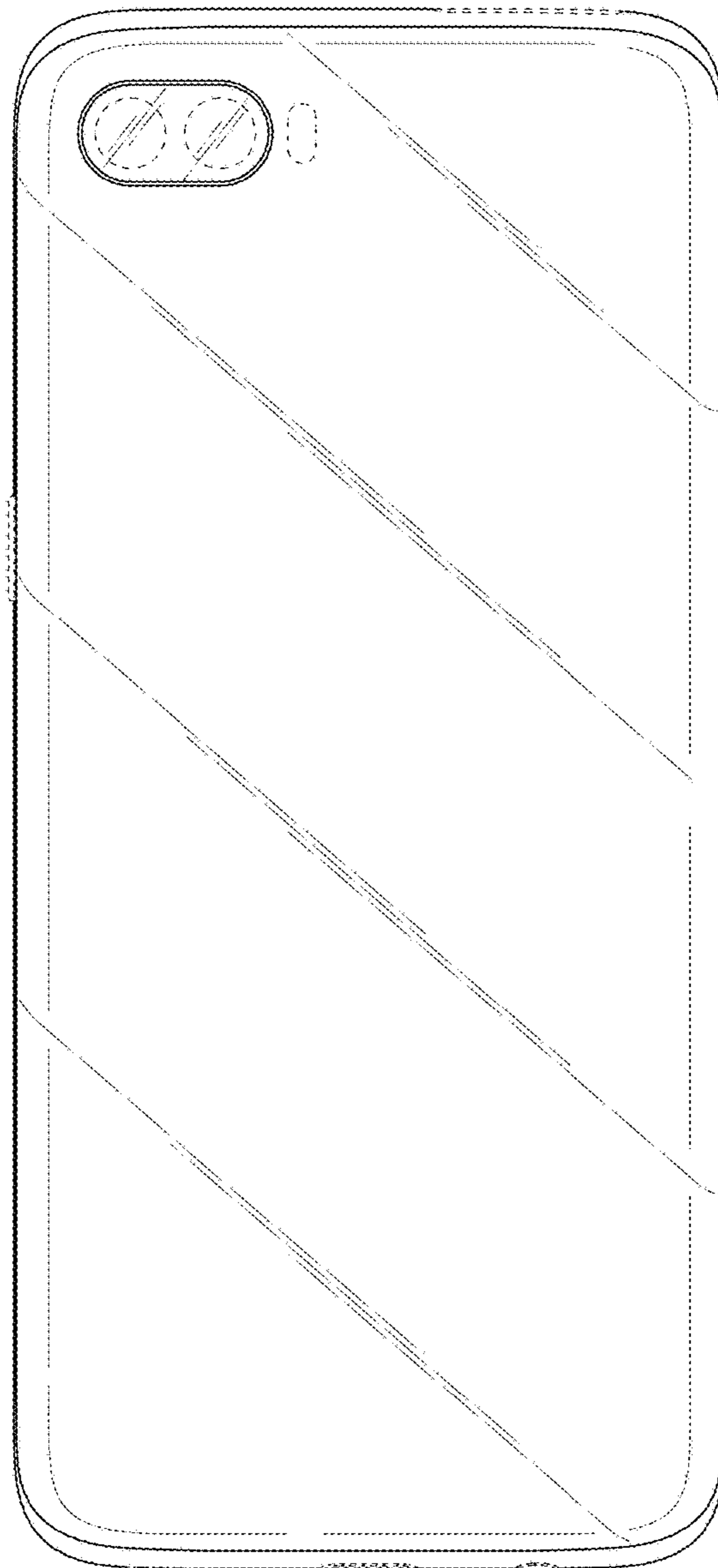


FIG. 4

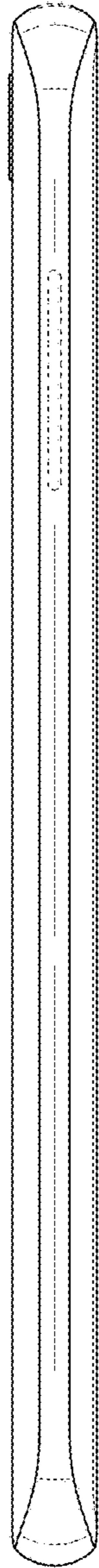


FIG. 5

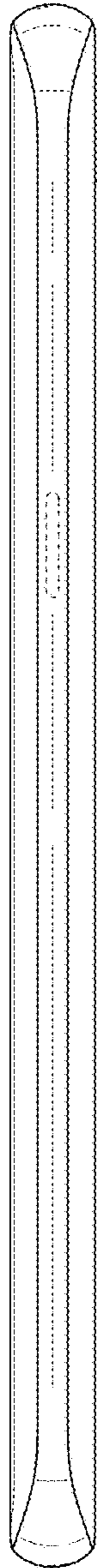




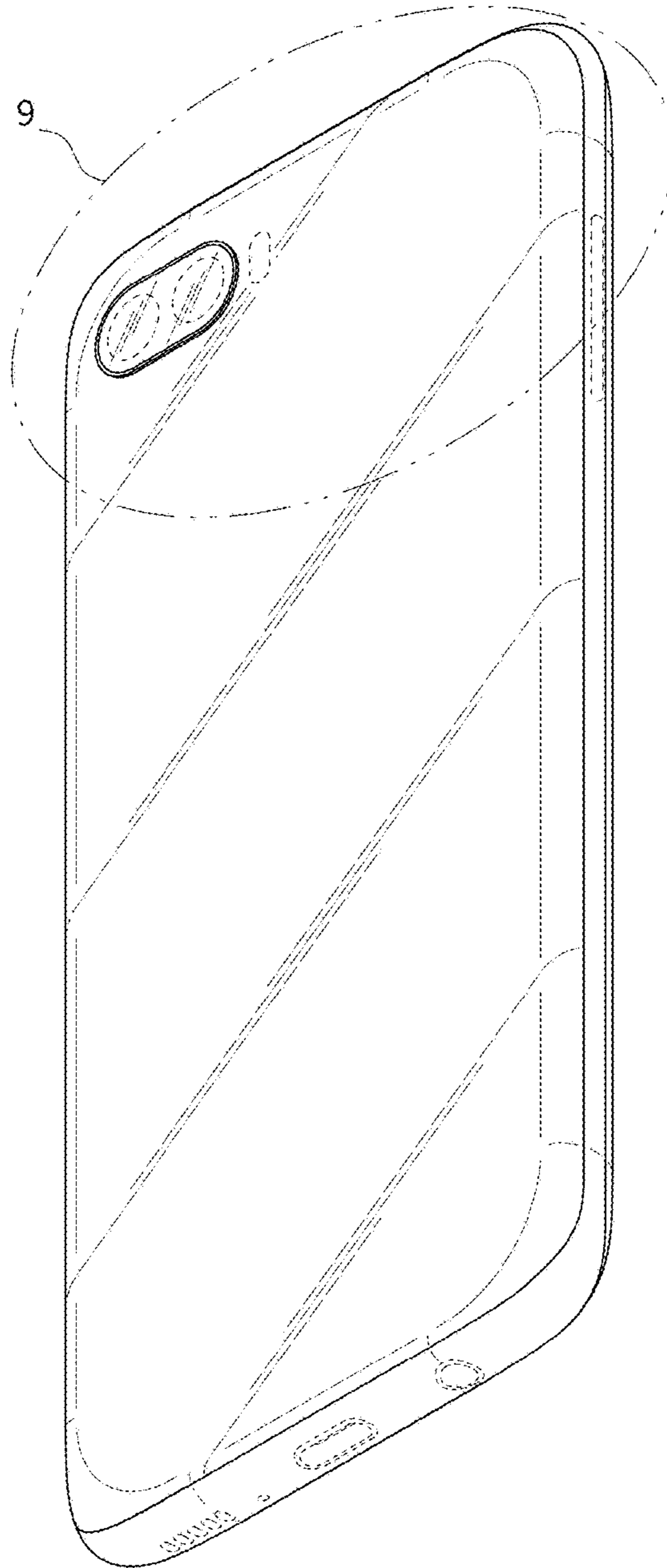
FIG. 6



FIG. 7



FIG. 8



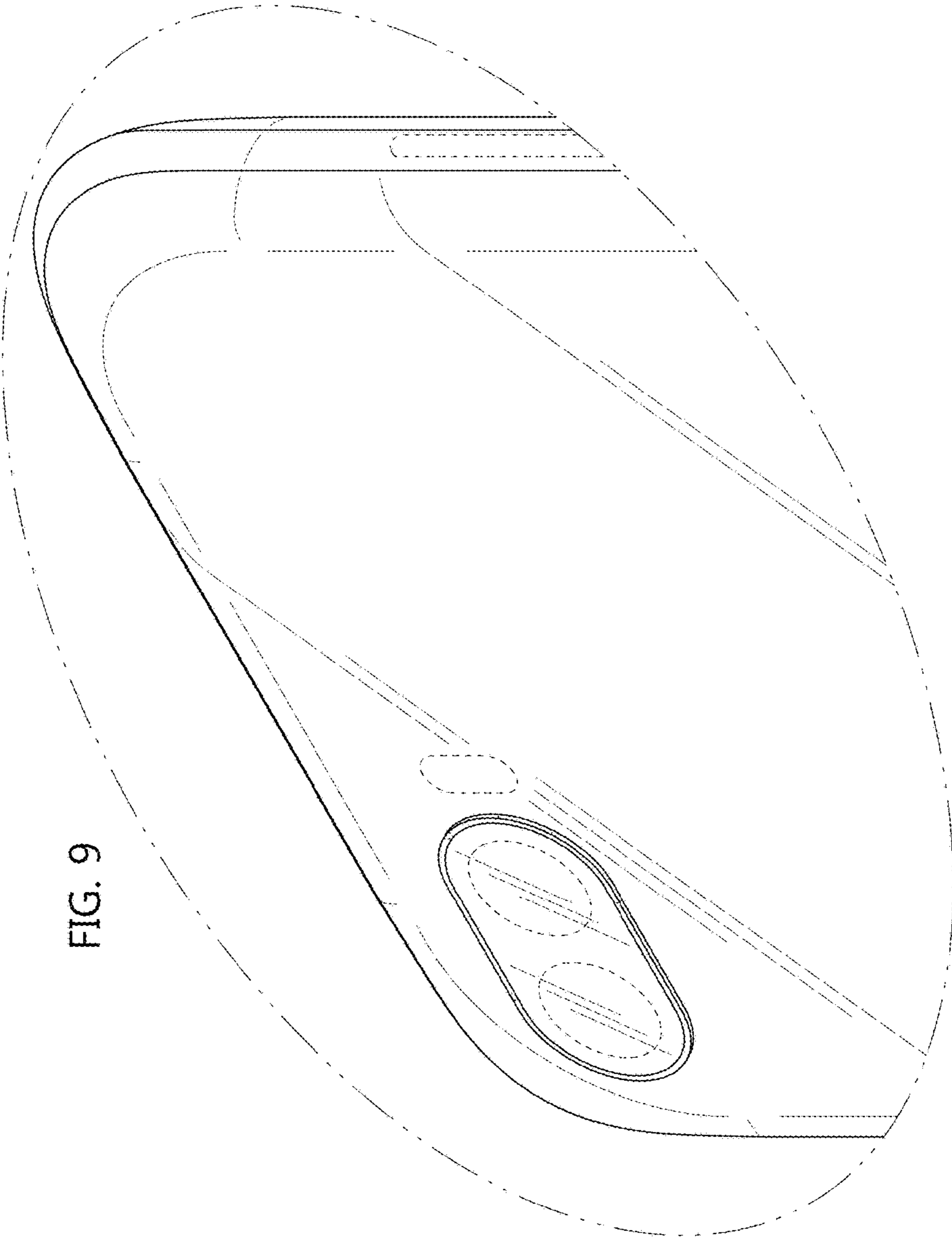


FIG. 9

FIG. 10

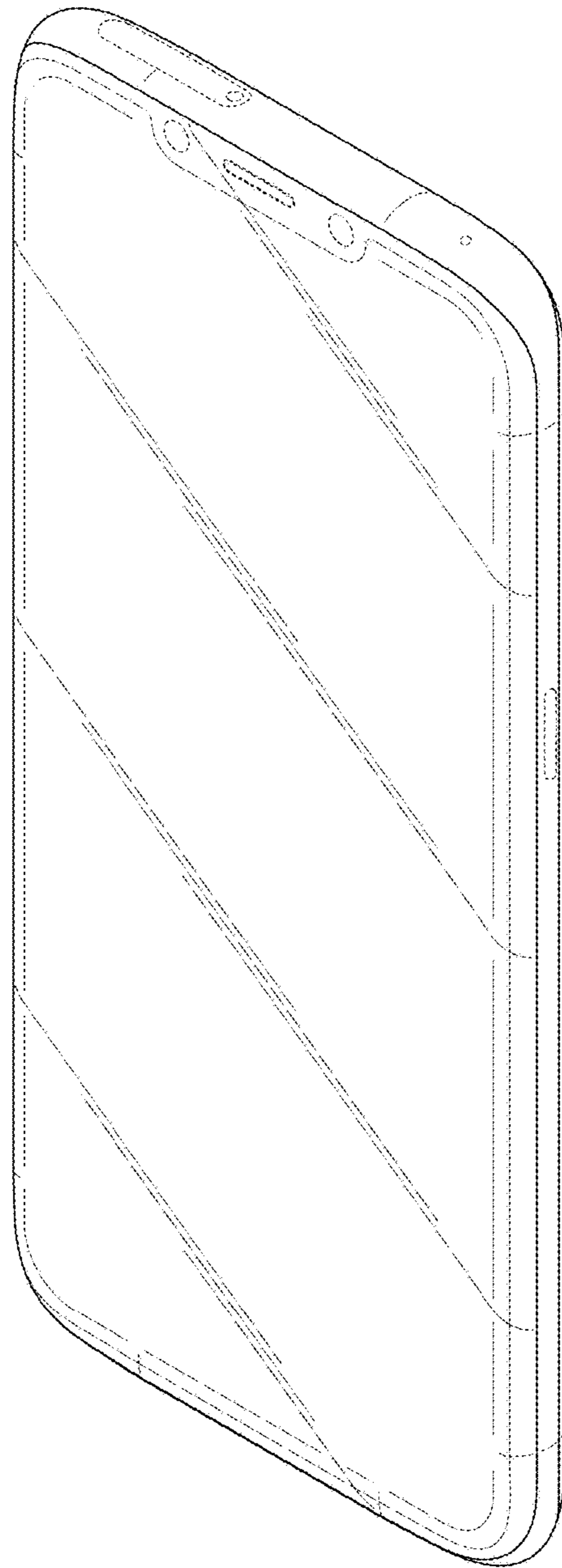


FIG. 11

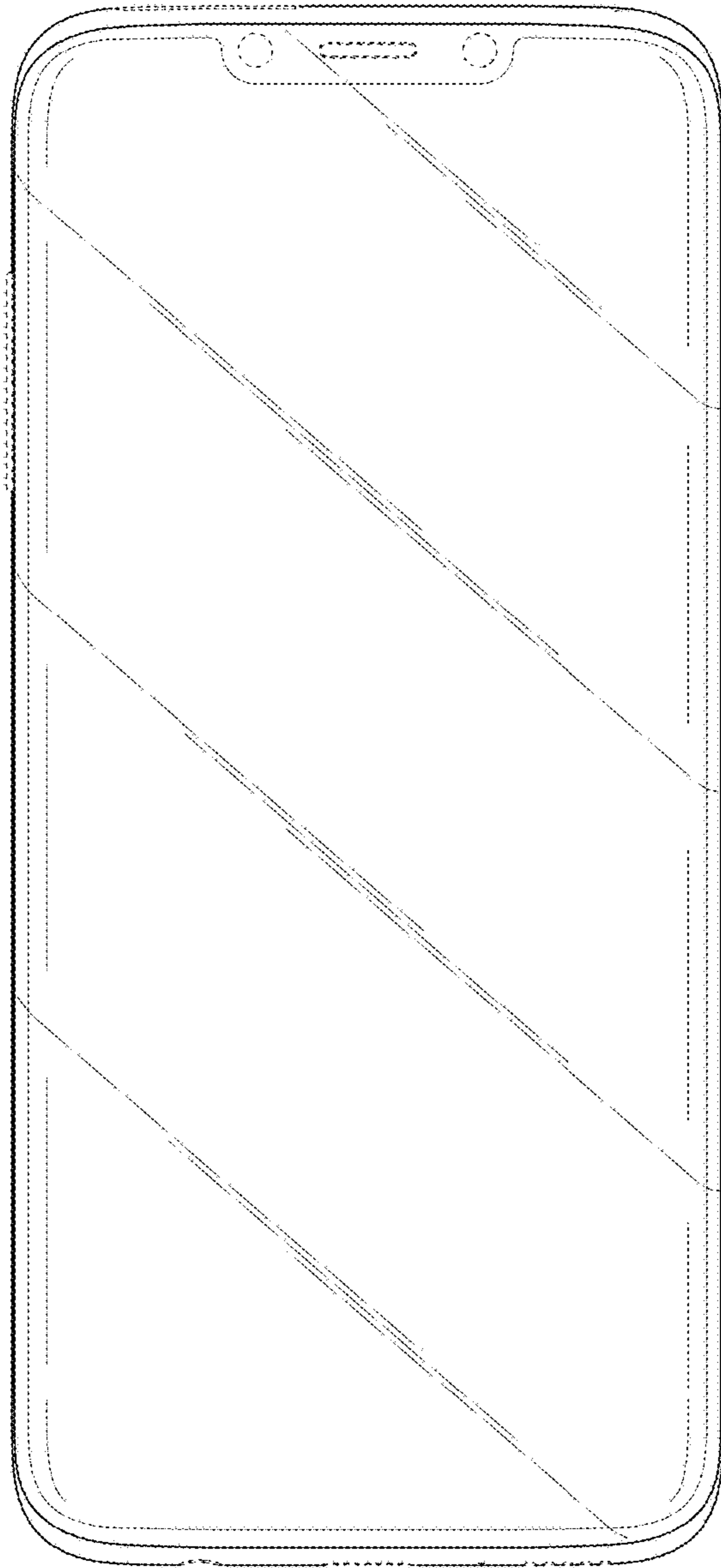


FIG. 12

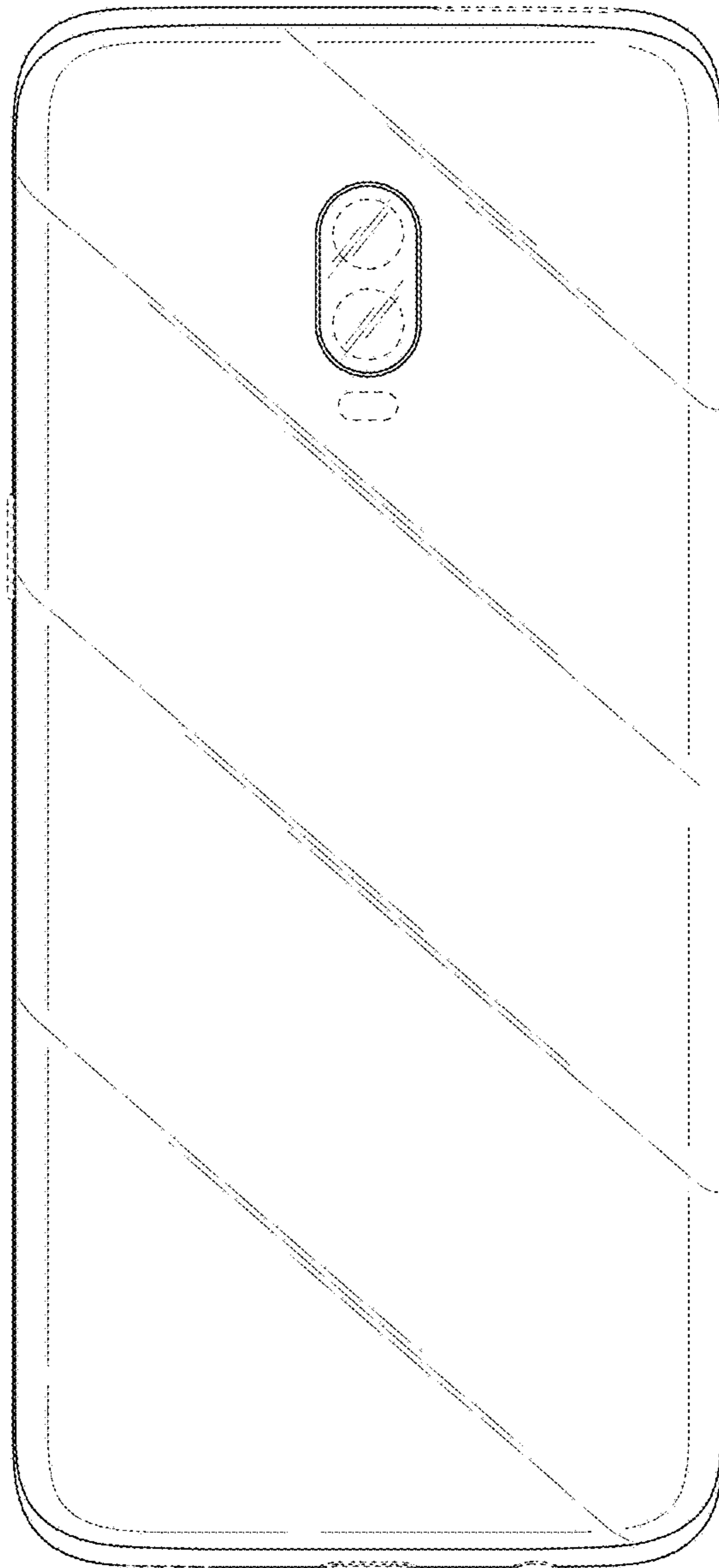


FIG. 13

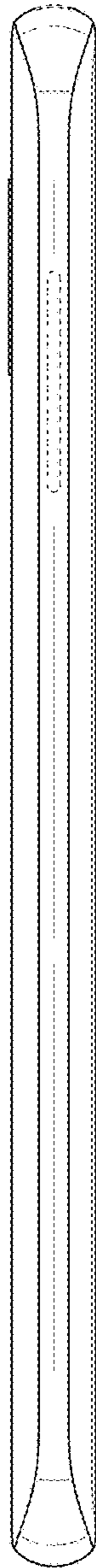


FIG. 14

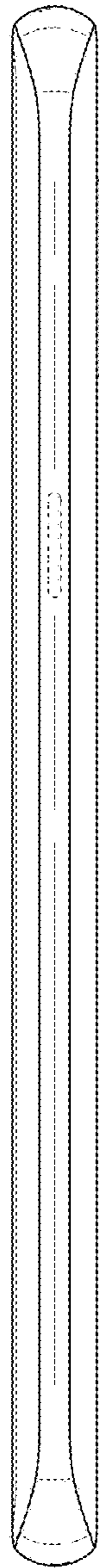




FIG. 15



FIG. 16

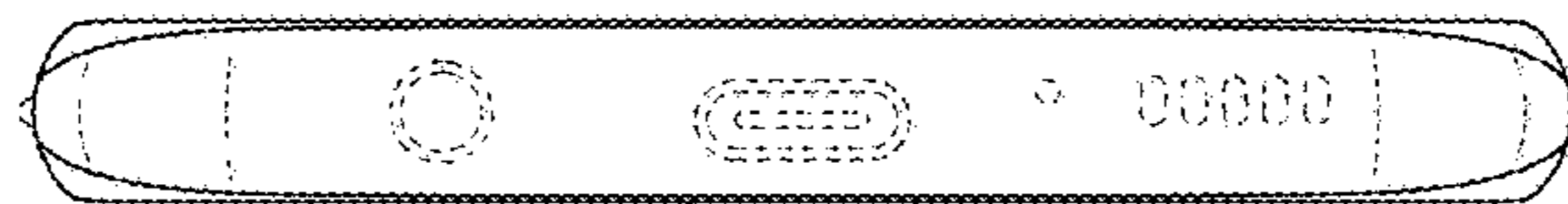
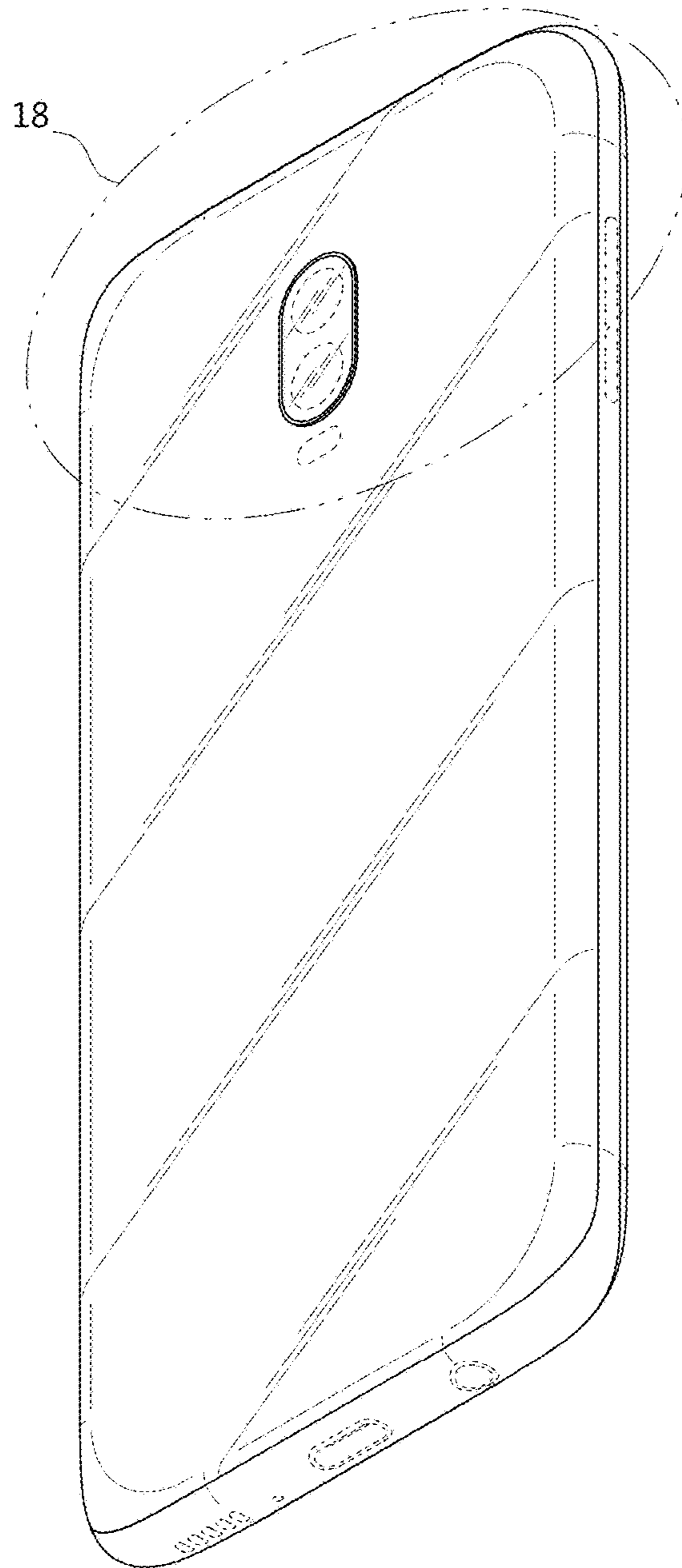


FIG. 17



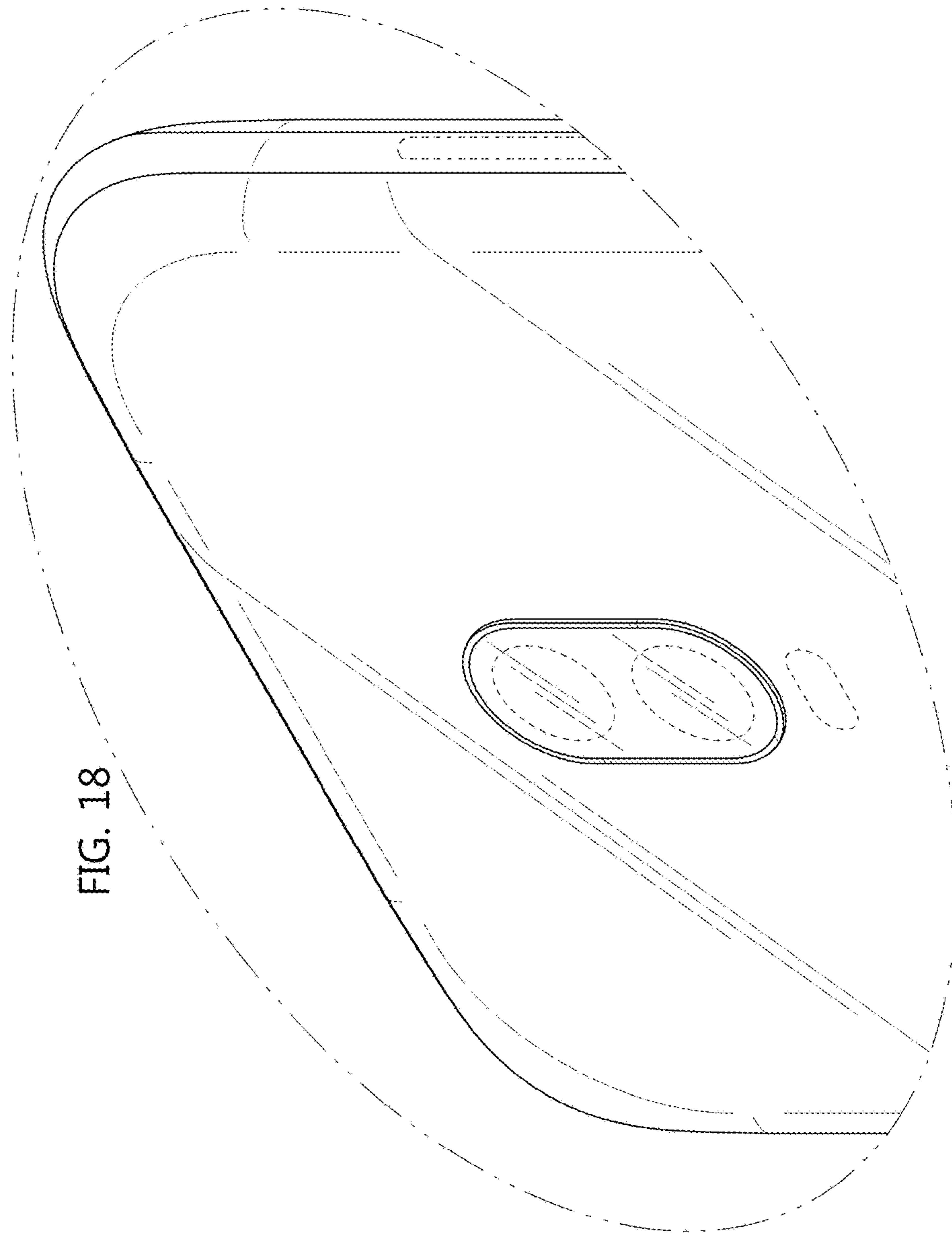


FIG. 18

FIG. 19

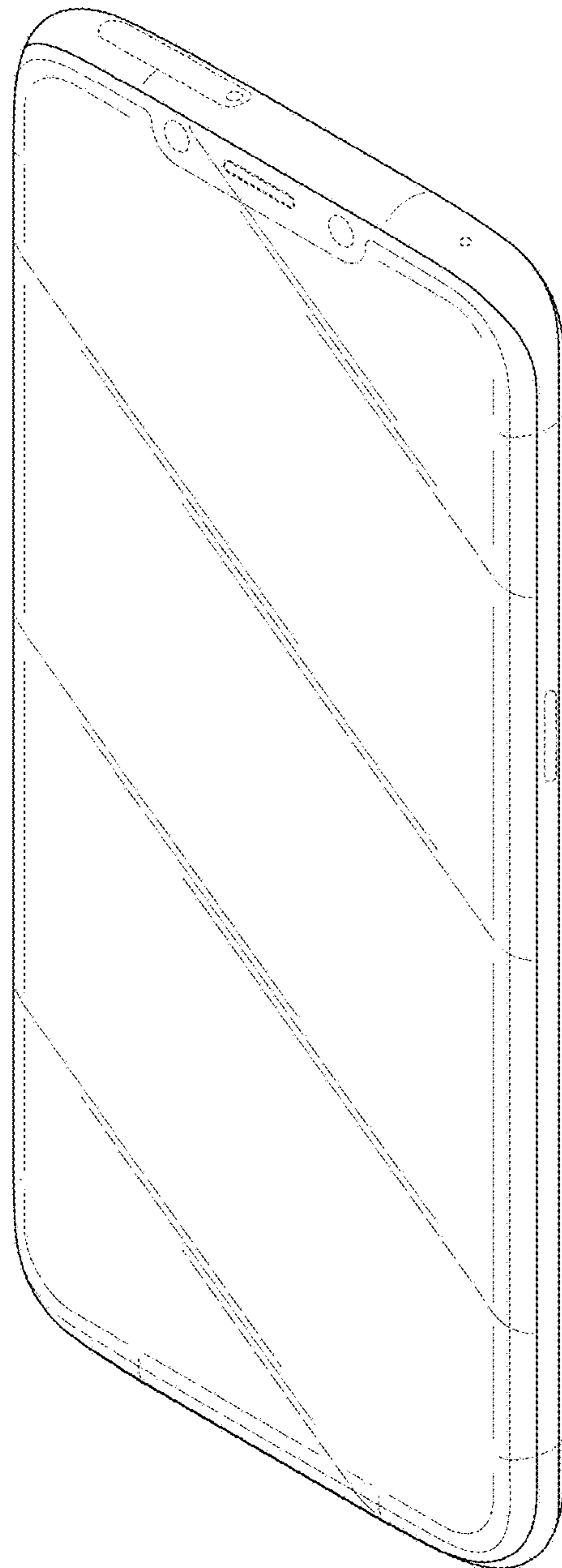


FIG. 20

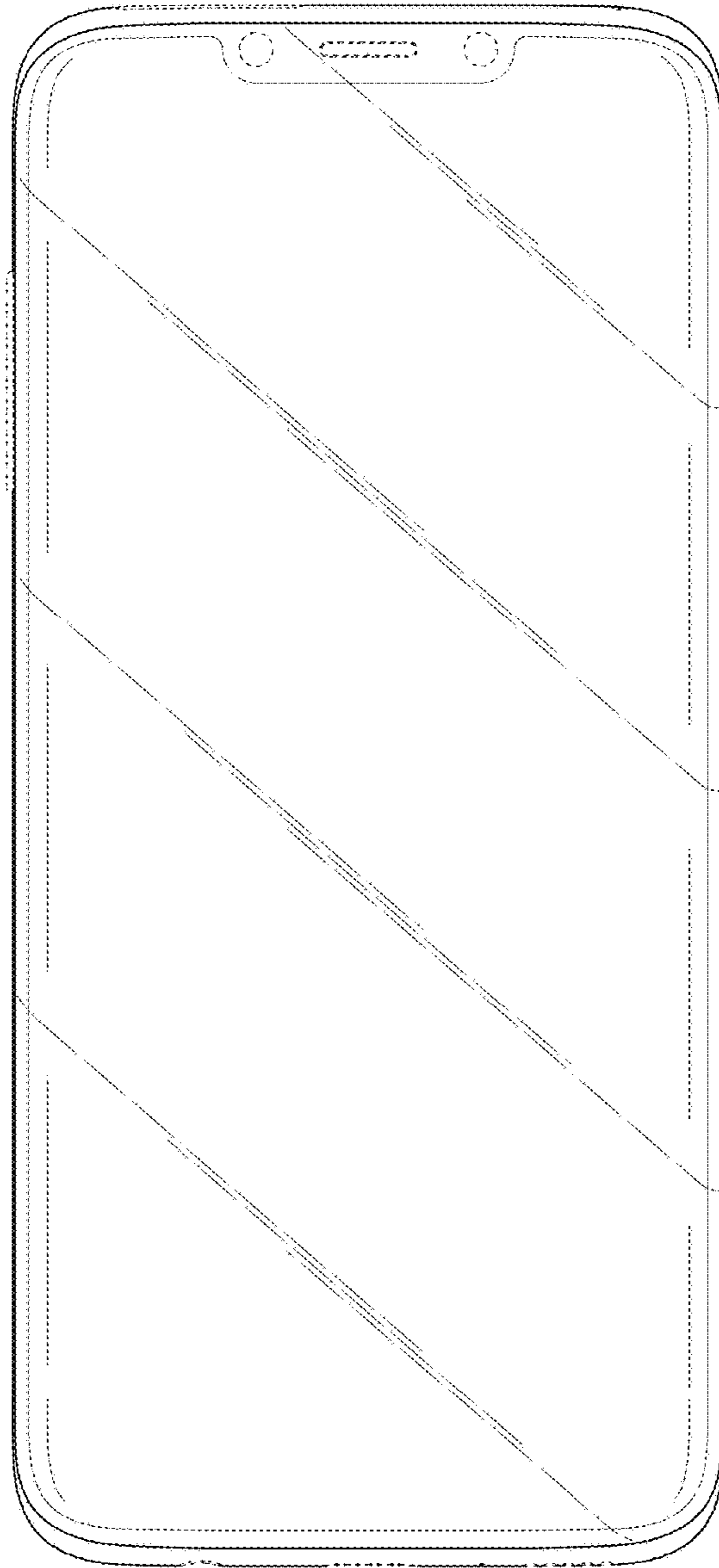


FIG. 21

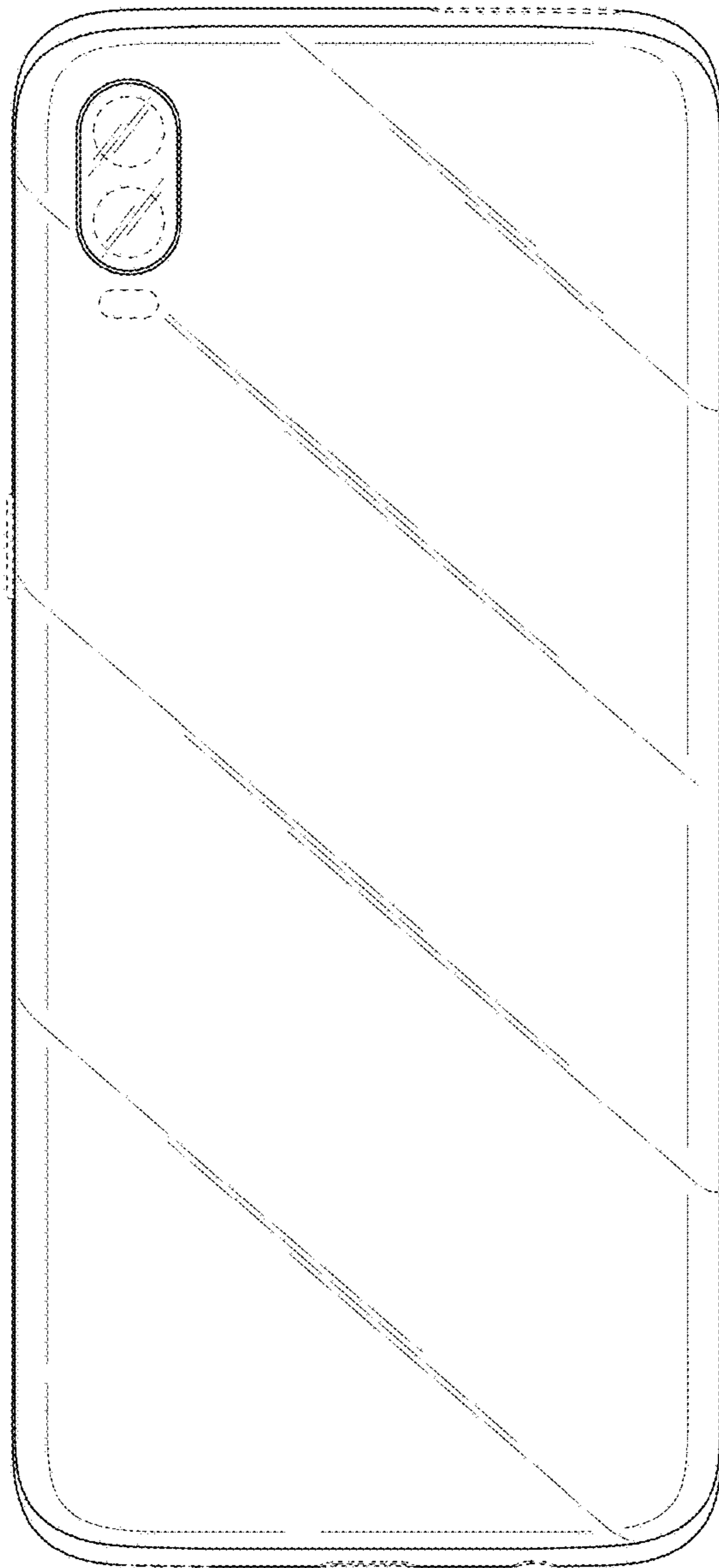


FIG. 22

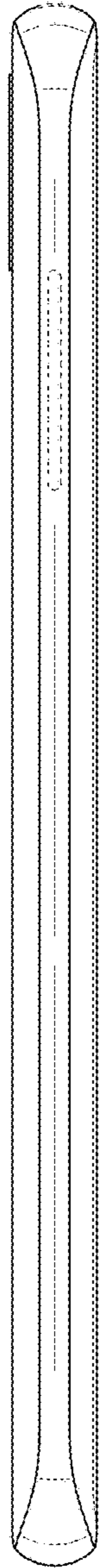


FIG. 23

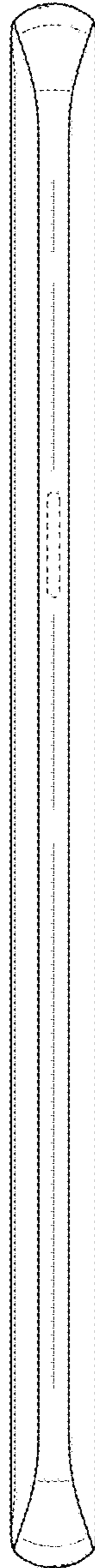




FIG. 24



FIG. 25

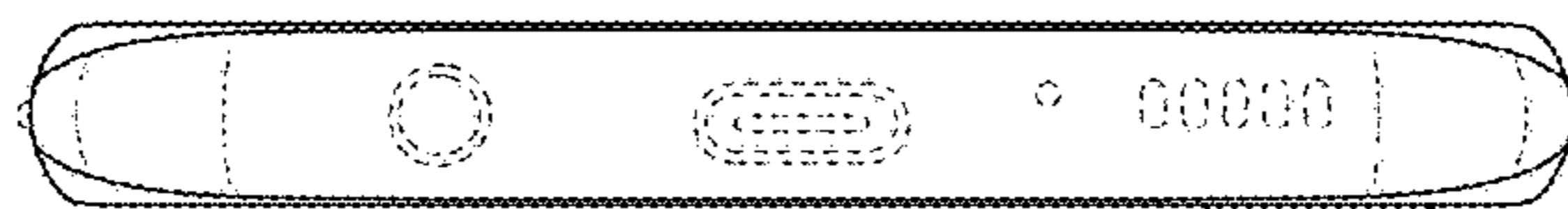
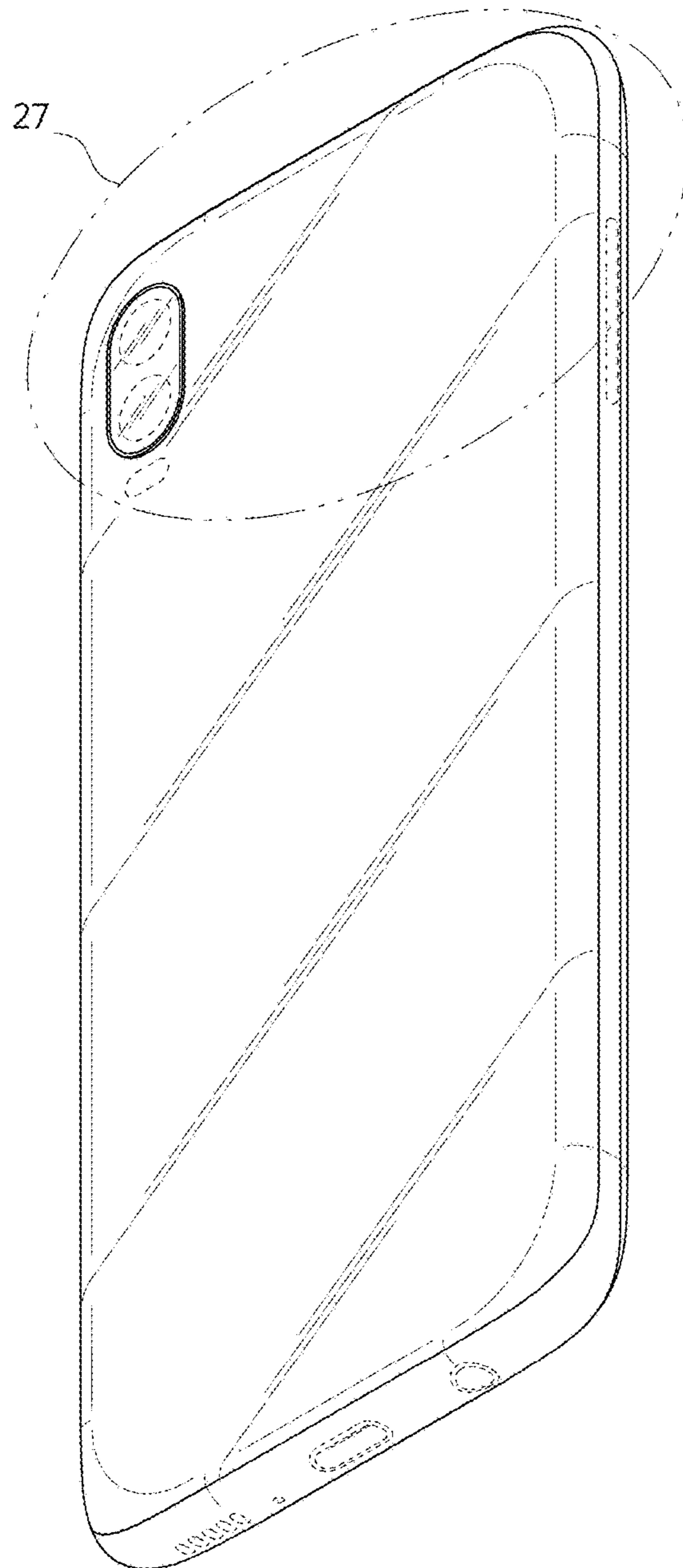


FIG. 26



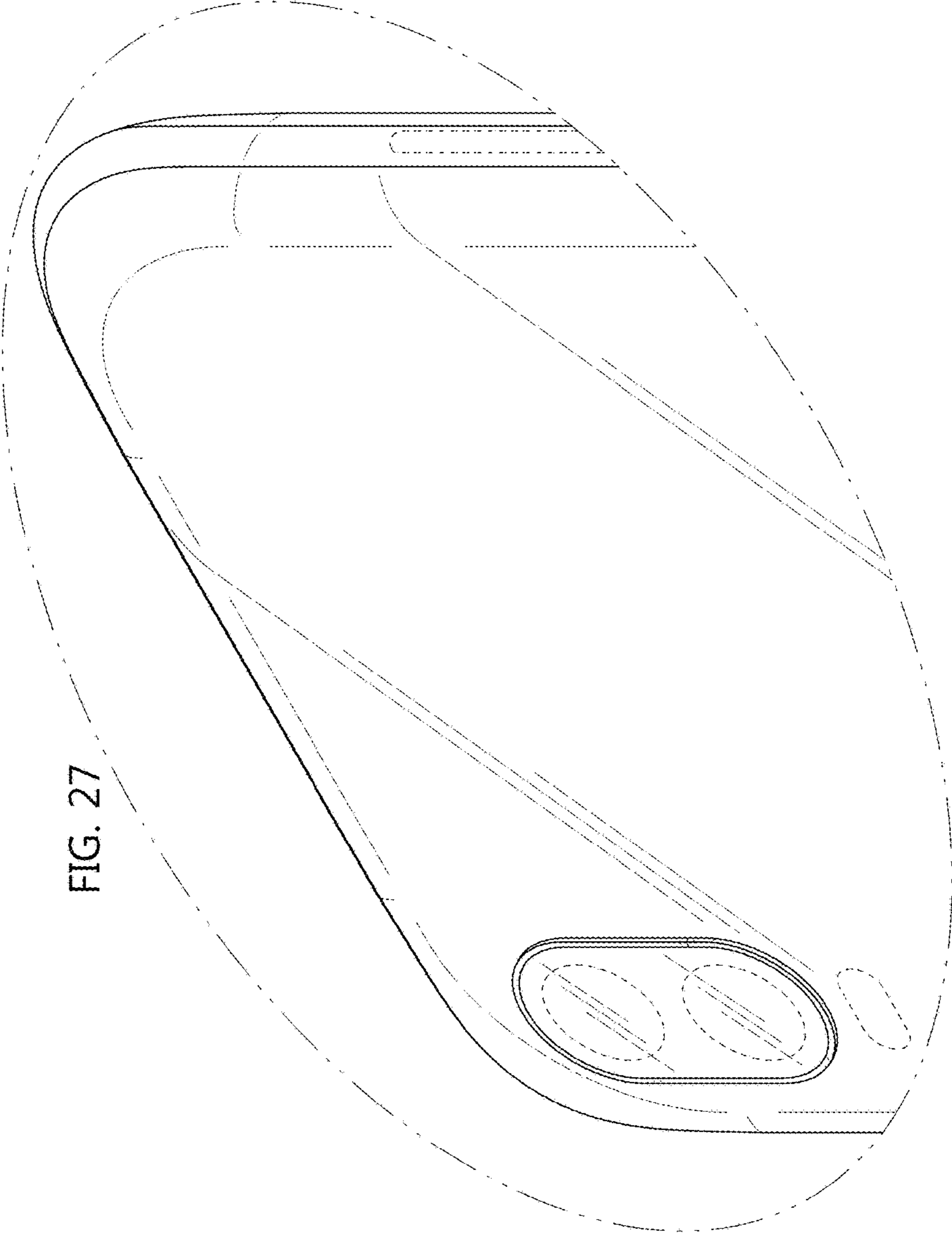


FIG. 27

FIG. 28

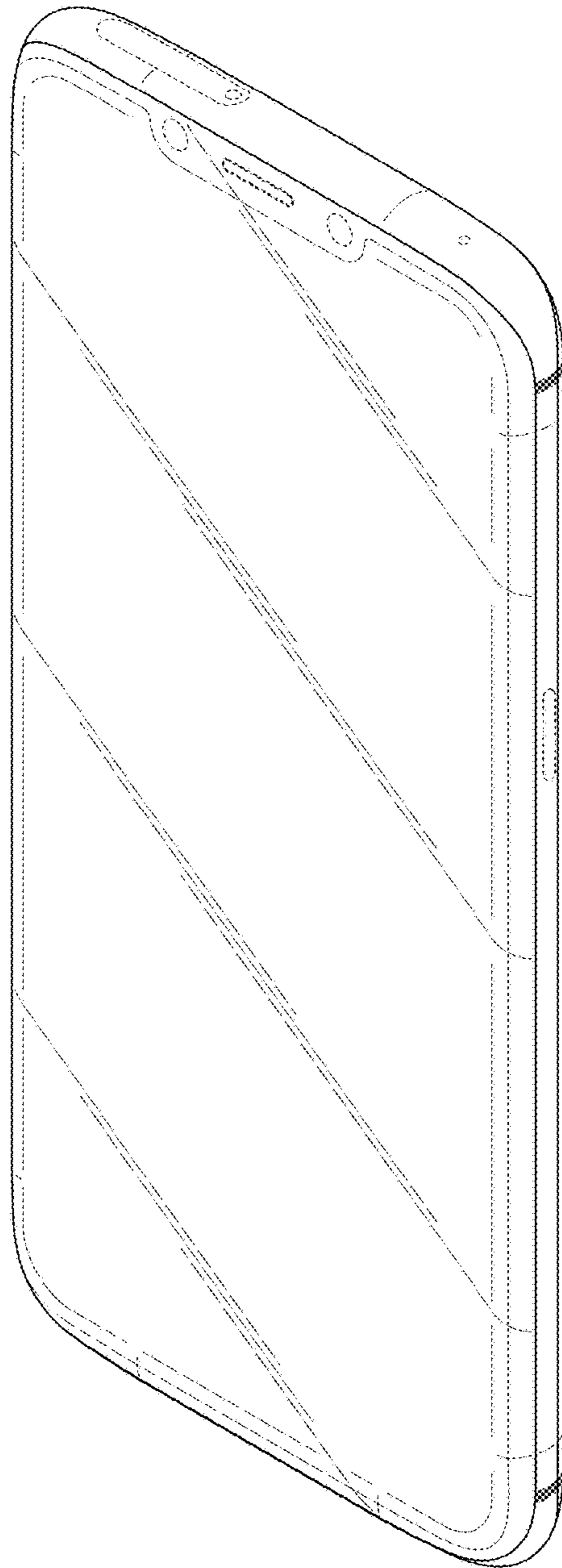


FIG. 29

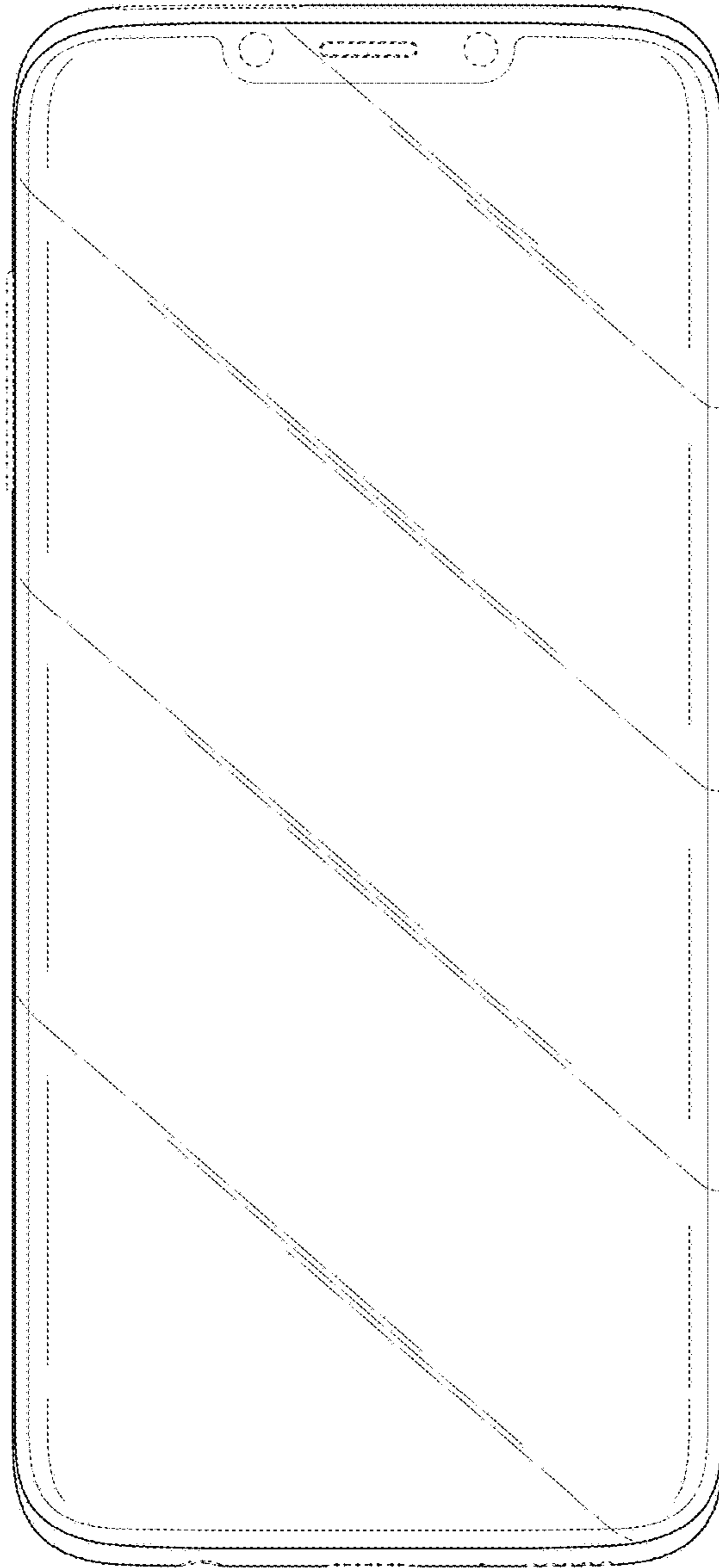


FIG. 30

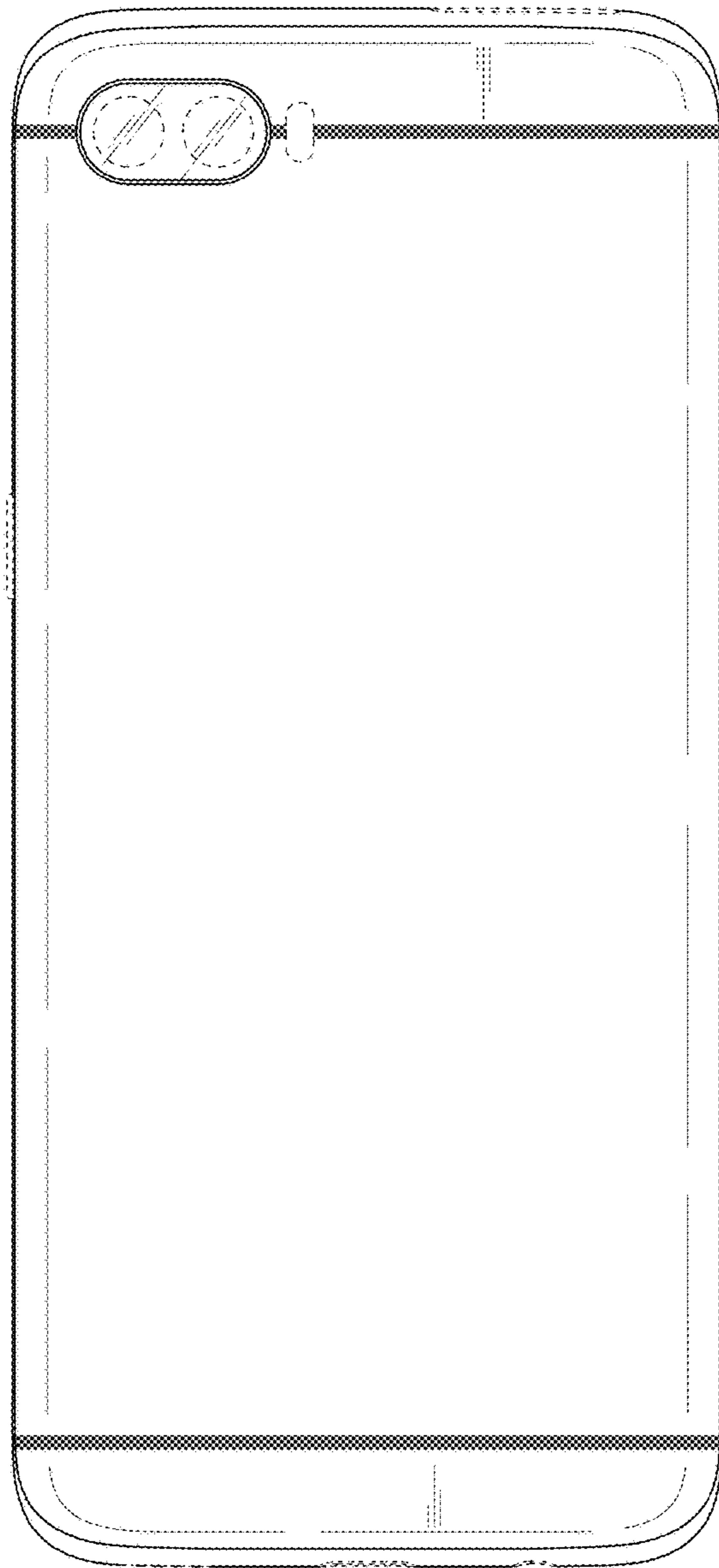


FIG. 31

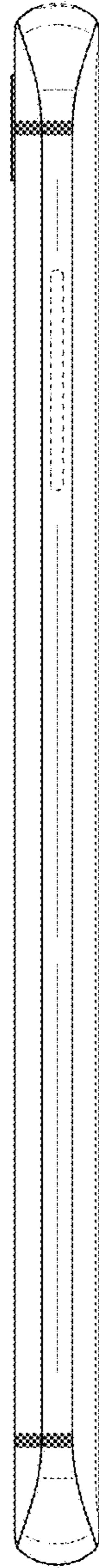


FIG. 32

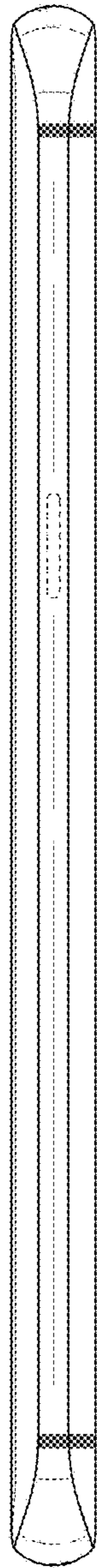




FIG. 33



FIG. 34

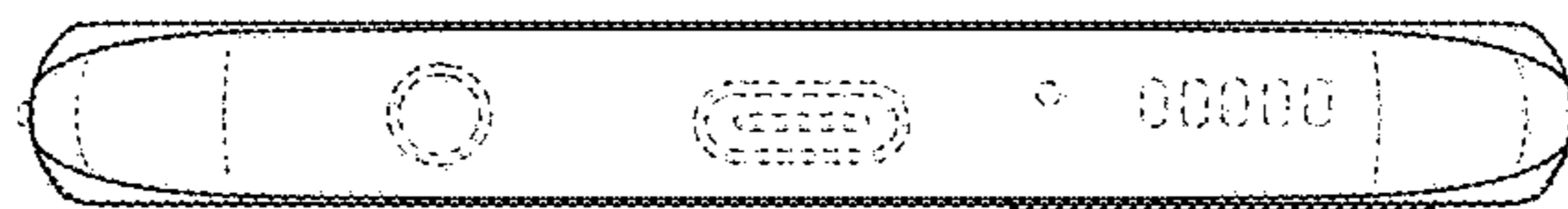
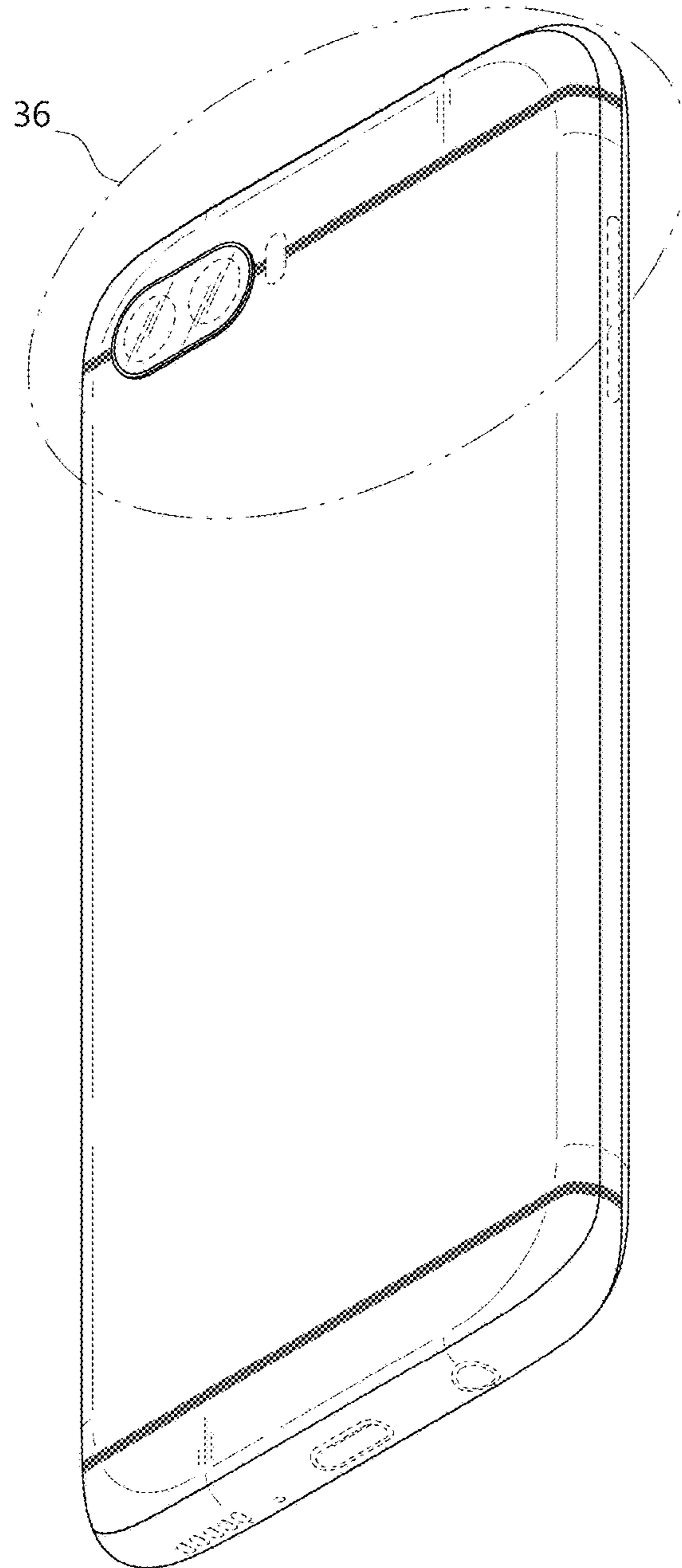


FIG. 35



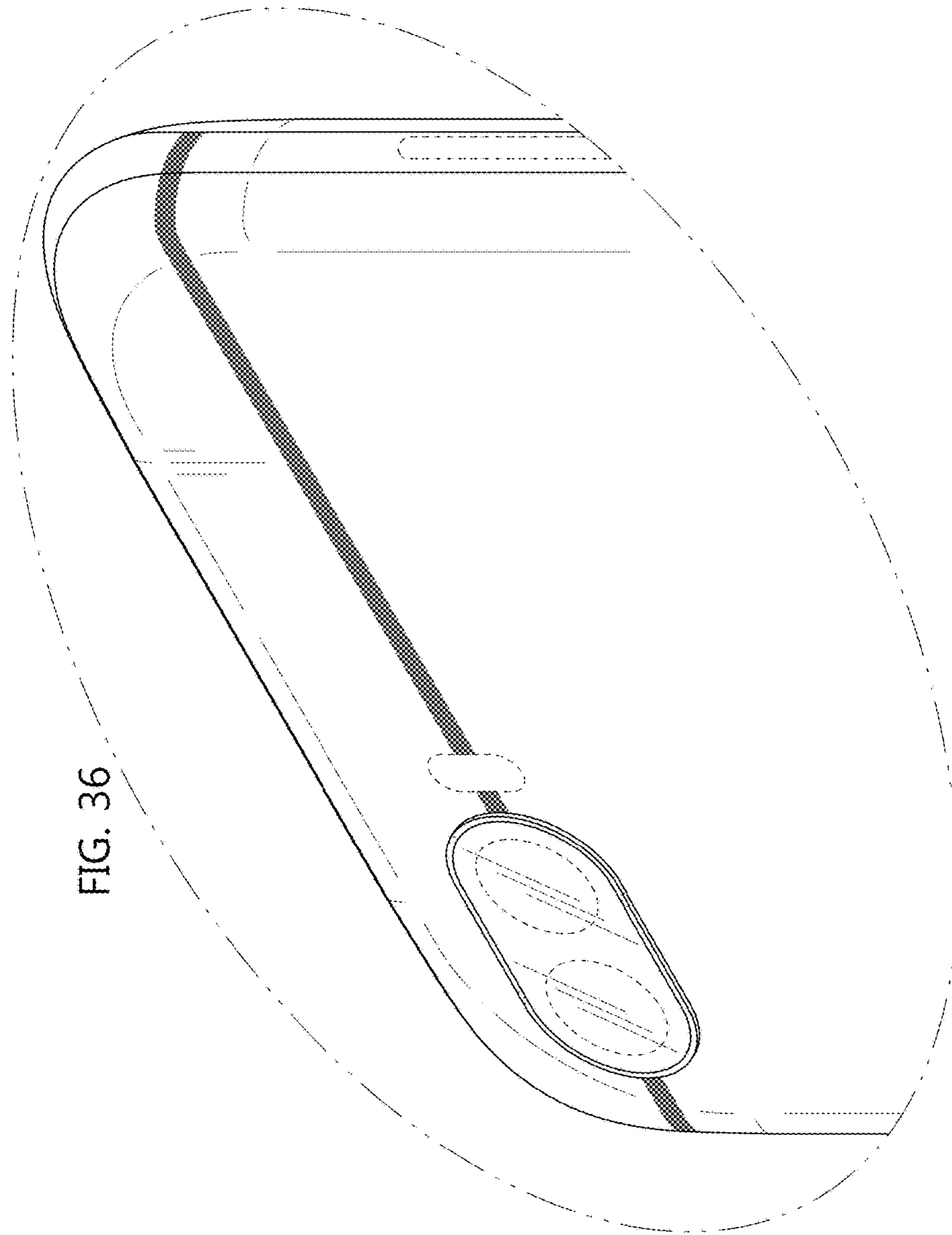


FIG. 36

FIG. 37

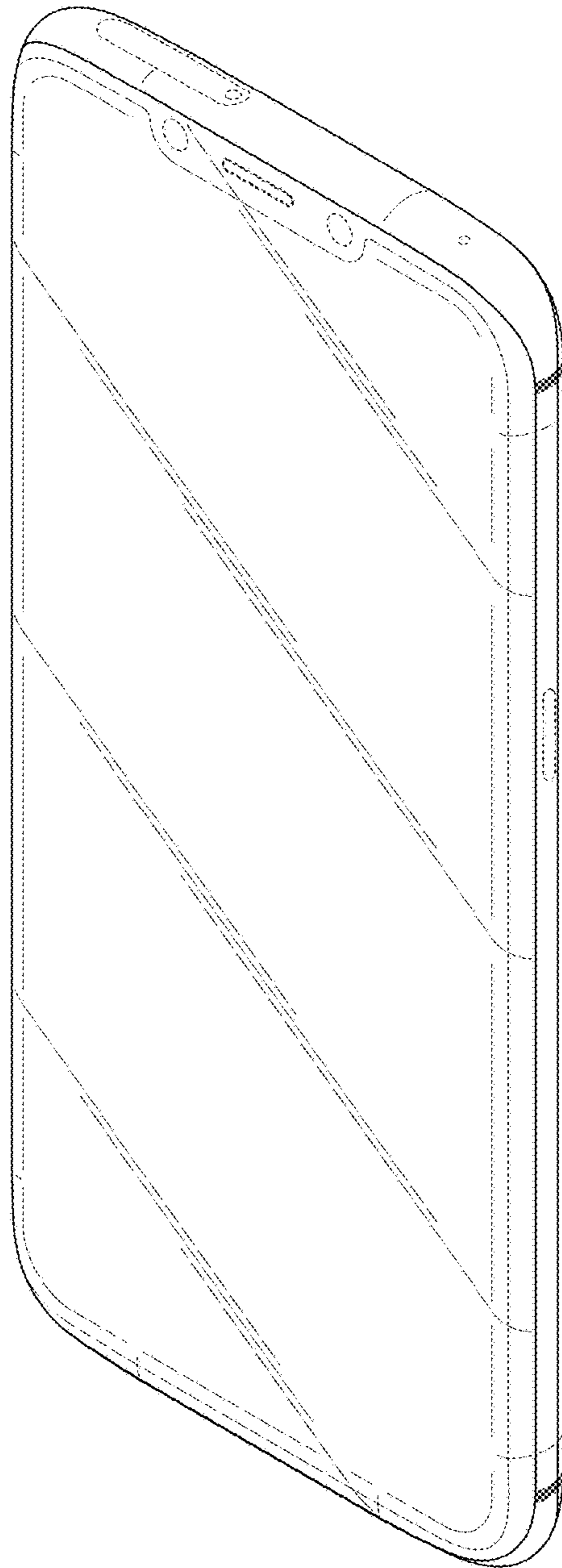


FIG. 38

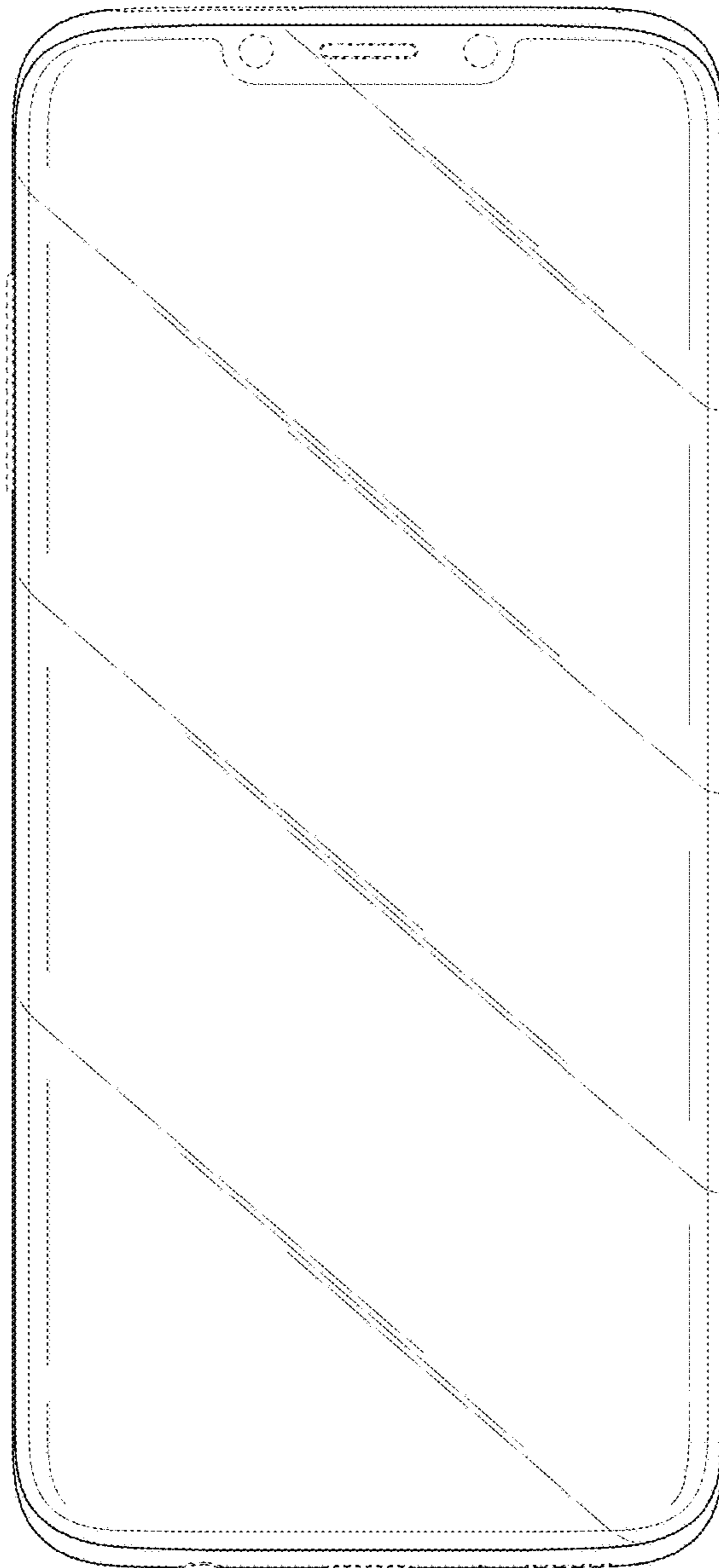


FIG. 39

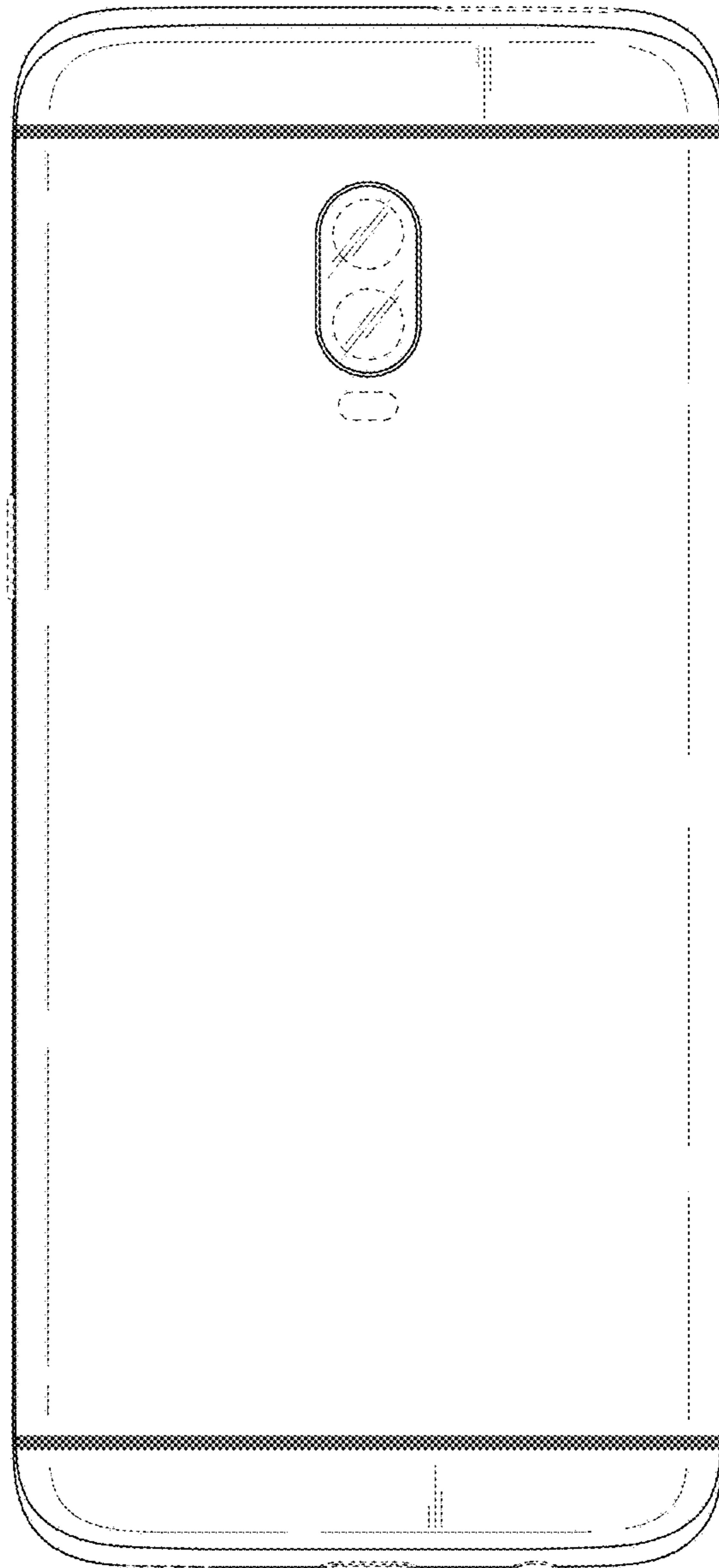


FIG. 40

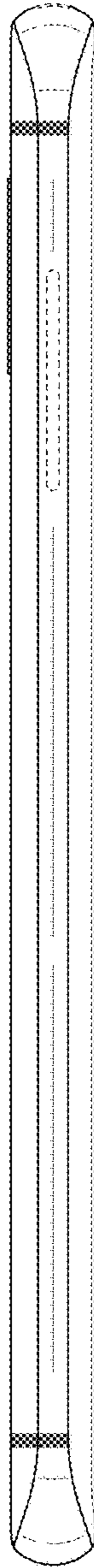


FIG. 41





FIG. 42



FIG. 43

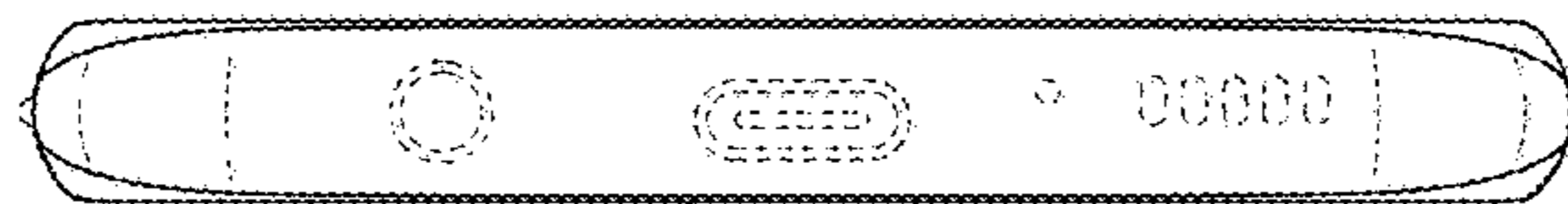
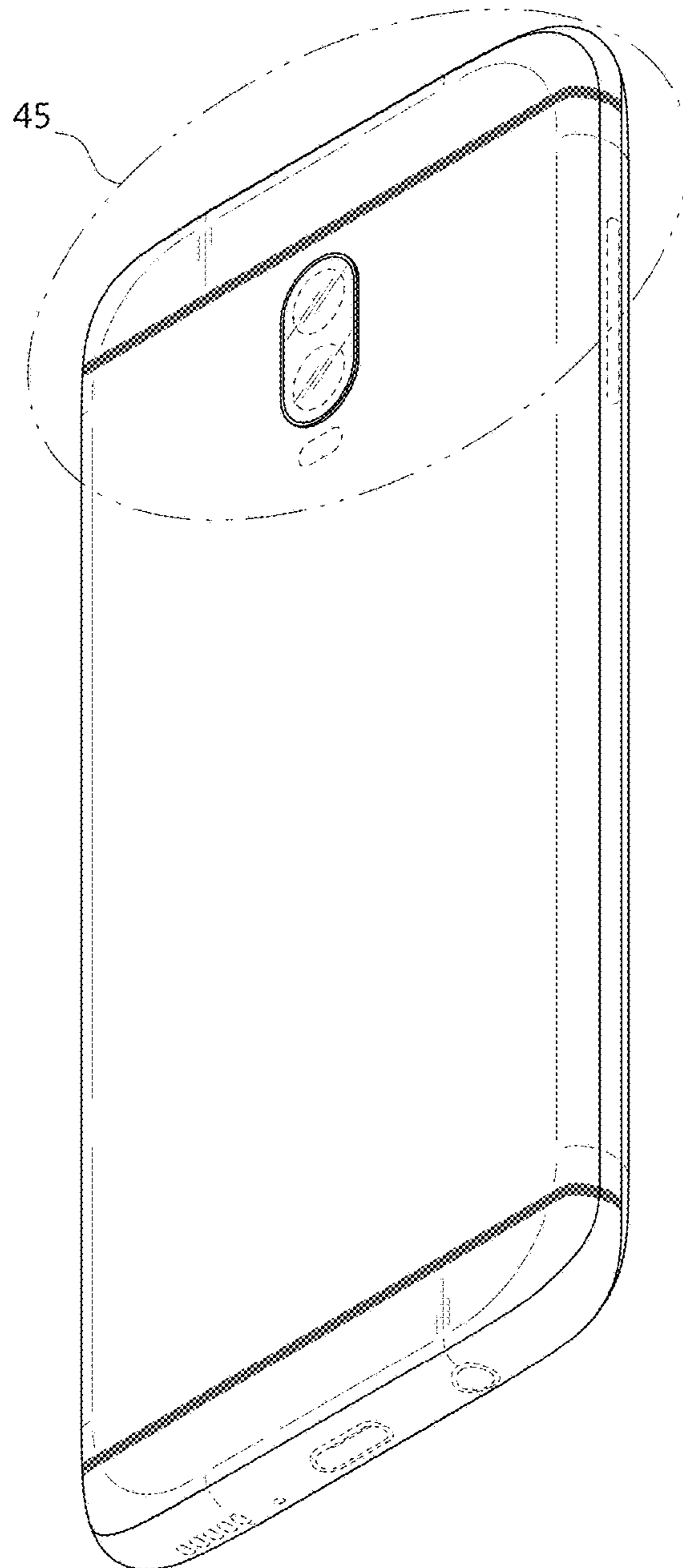


FIG. 44



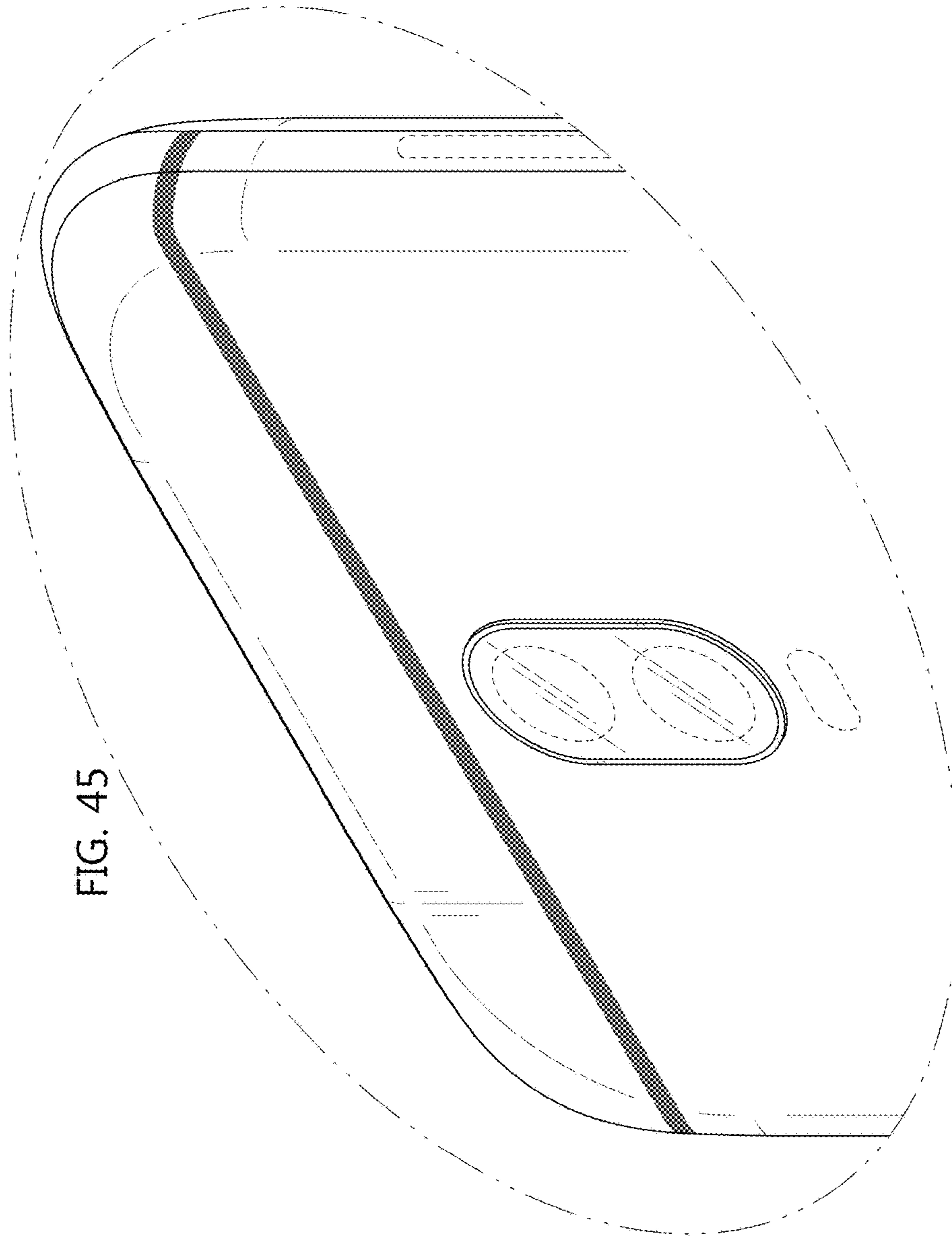


FIG. 45

FIG. 46

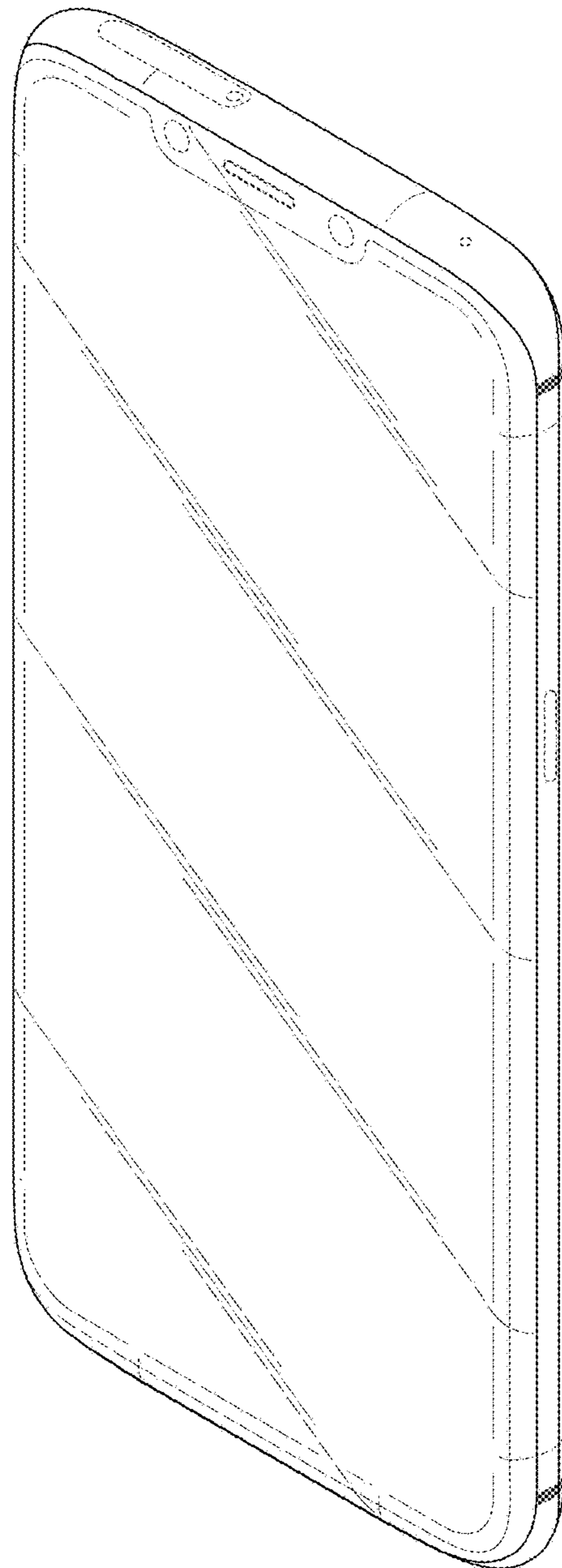


FIG. 47

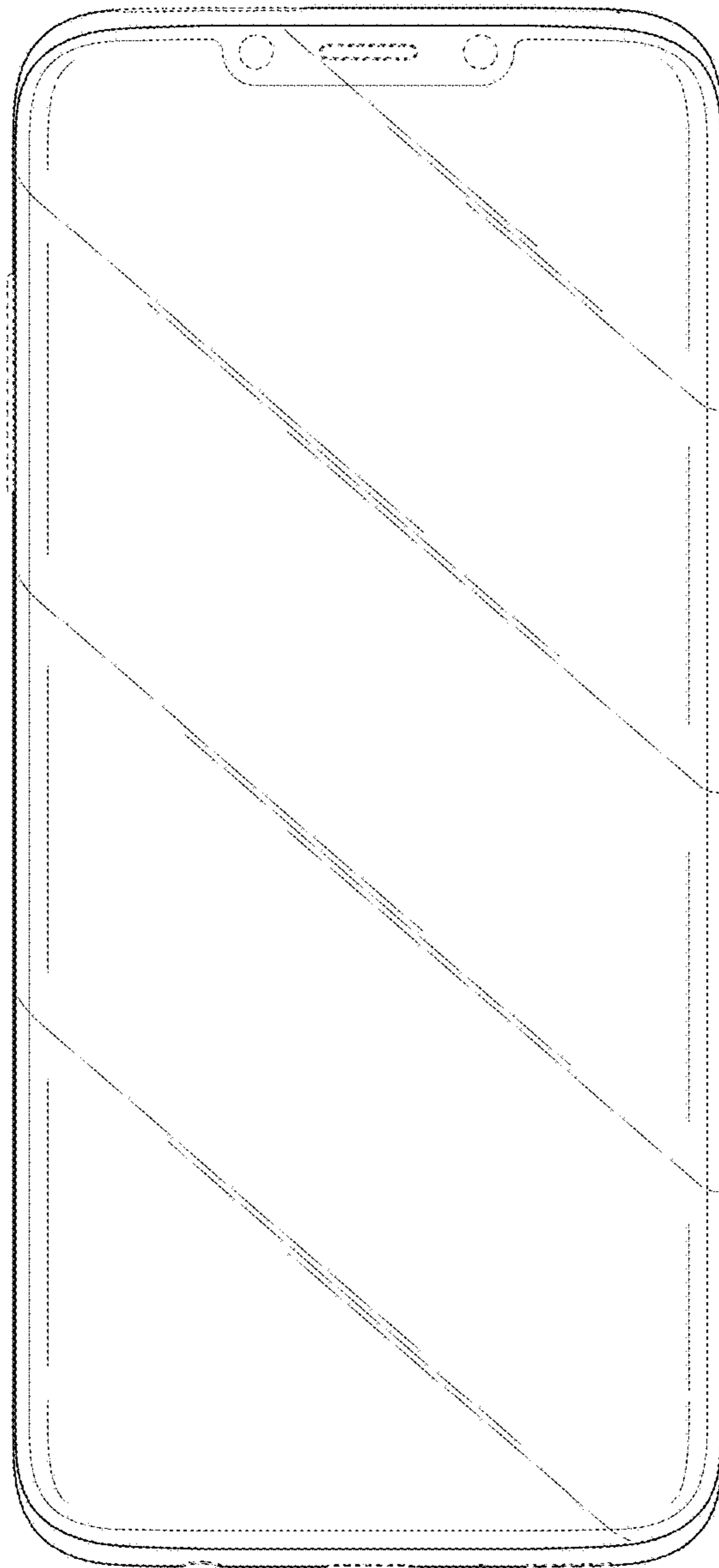


FIG. 48

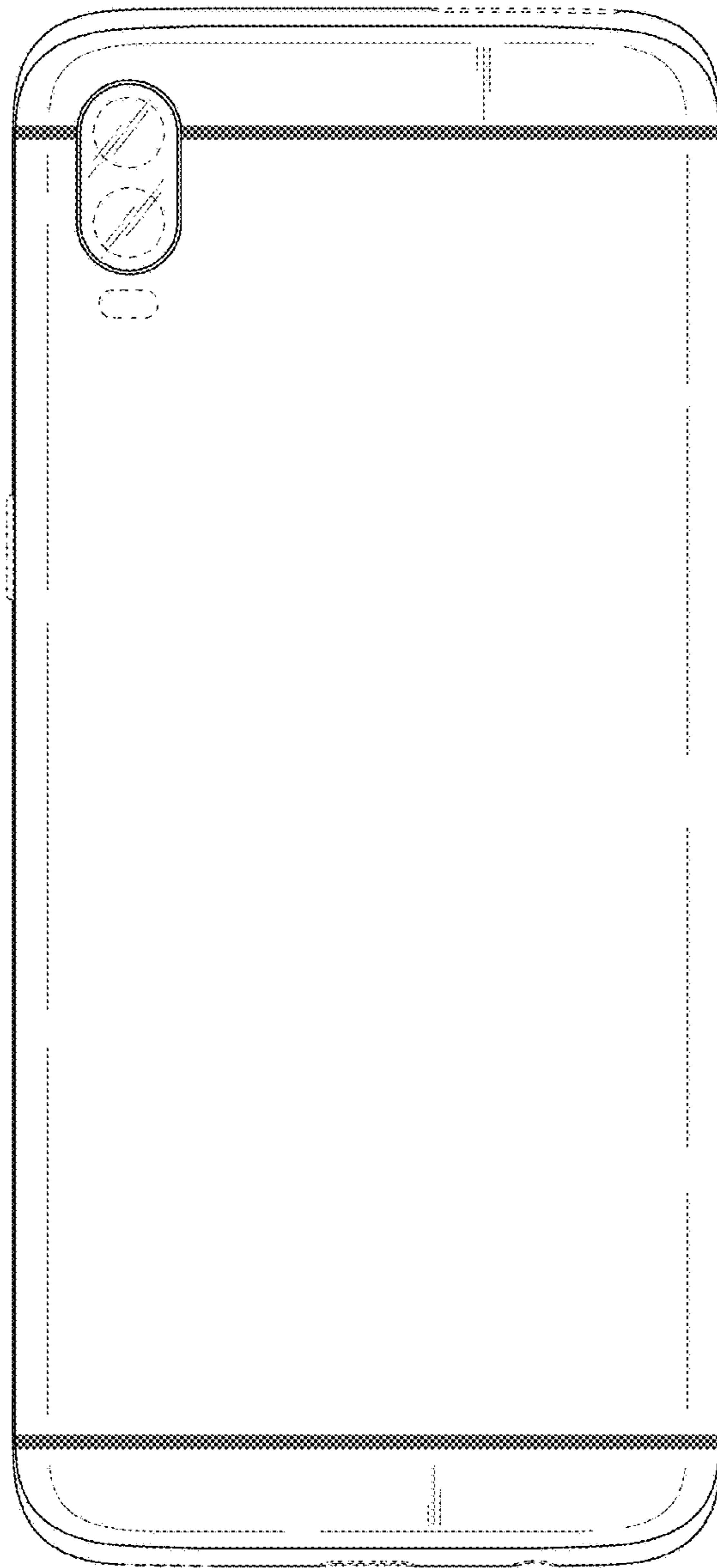


FIG. 49

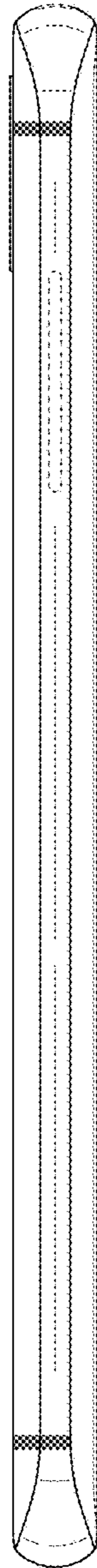


FIG. 50

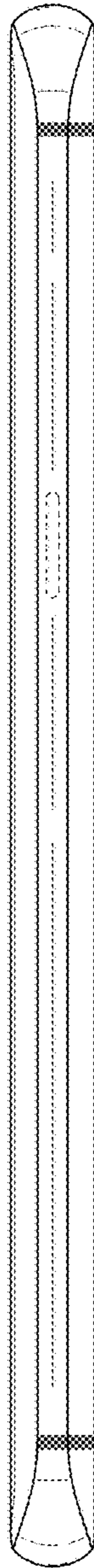




FIG. 51



FIG. 52

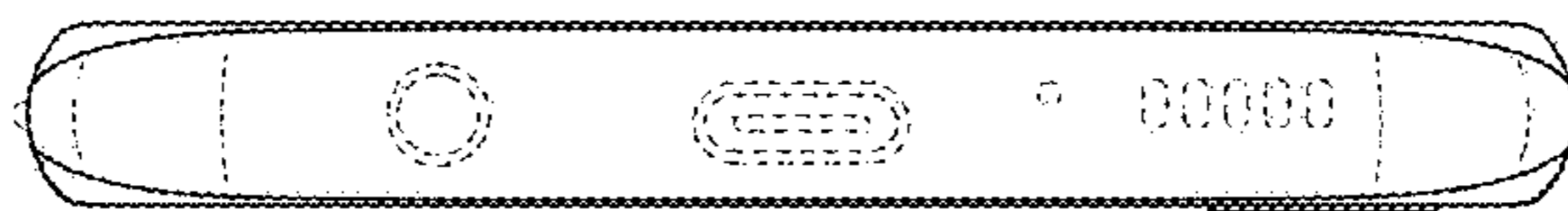
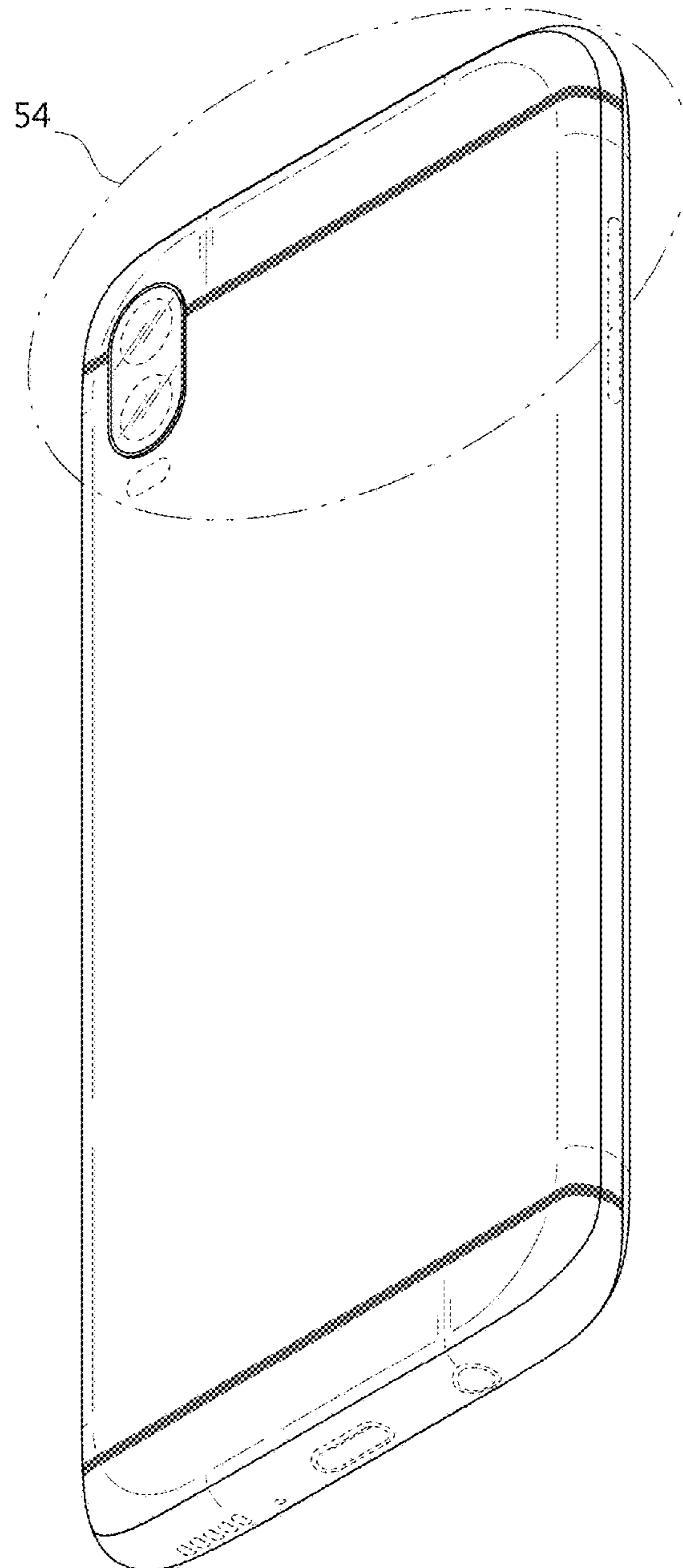


FIG. 53



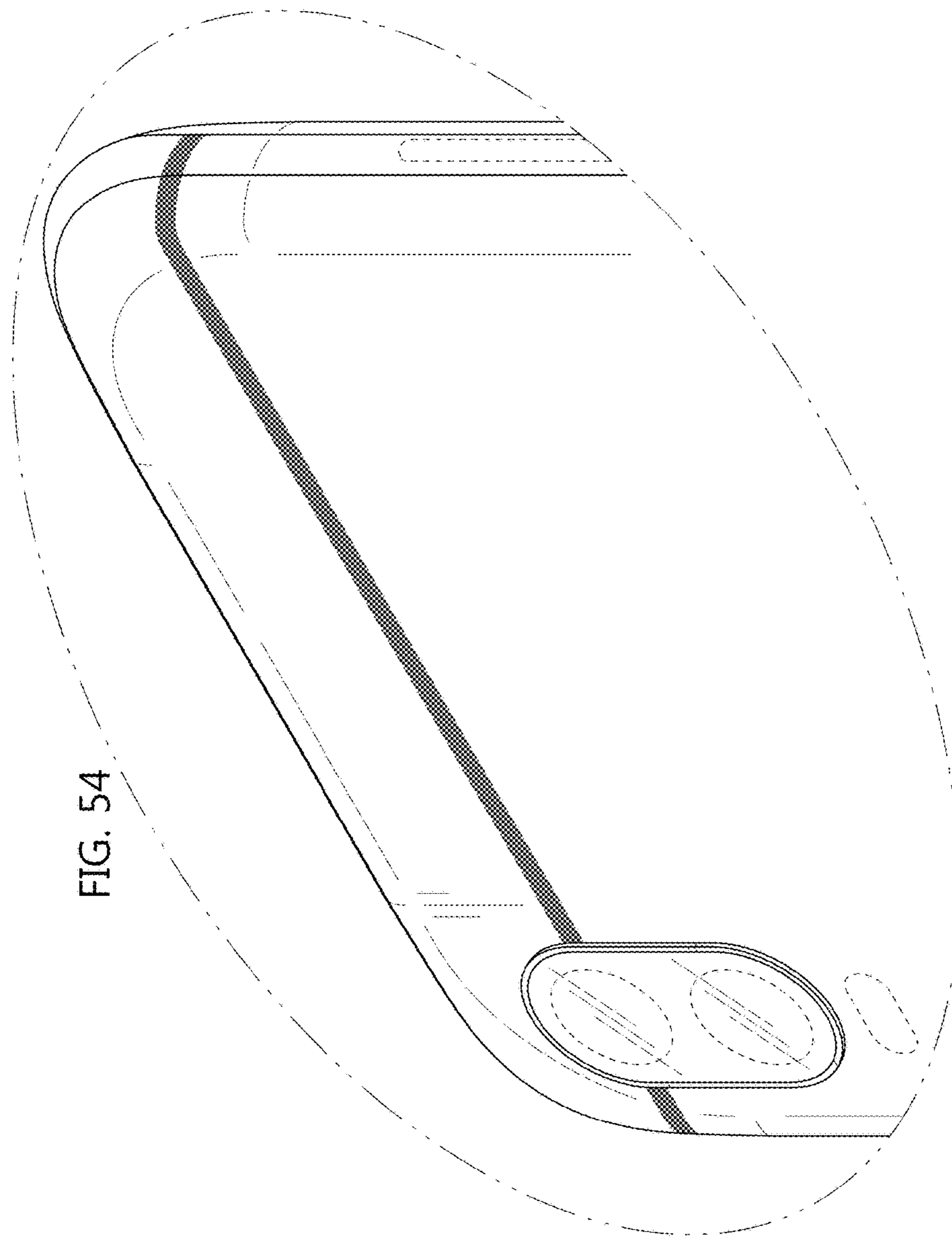


FIG. 54

FIG. 55

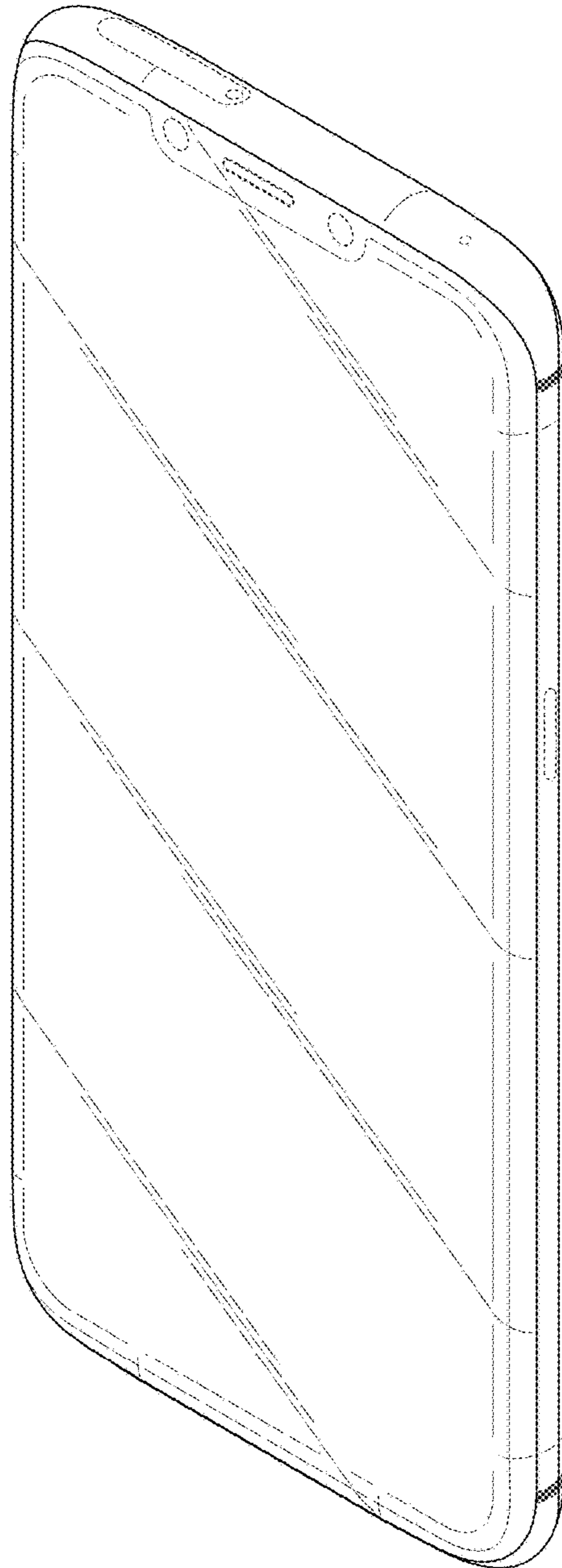


FIG. 56

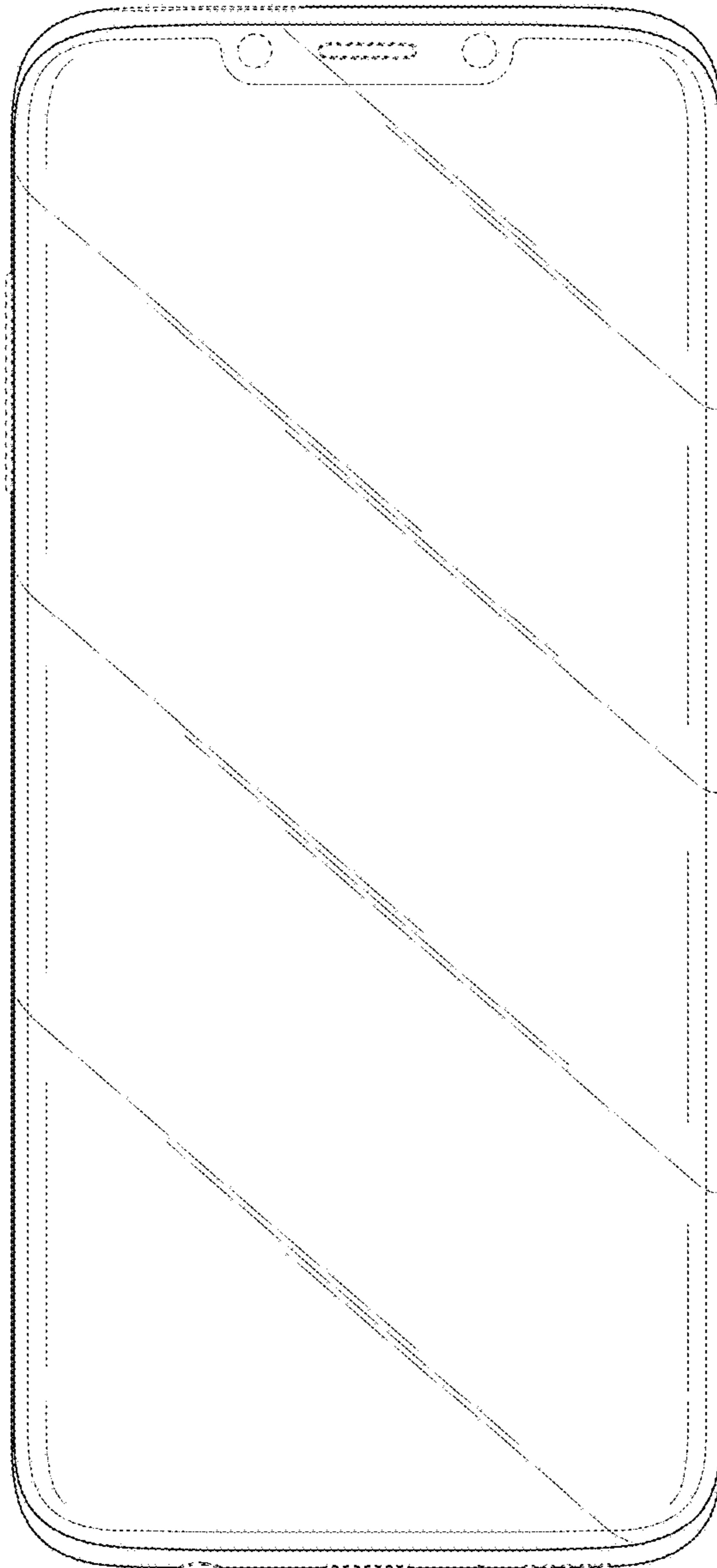


FIG. 57

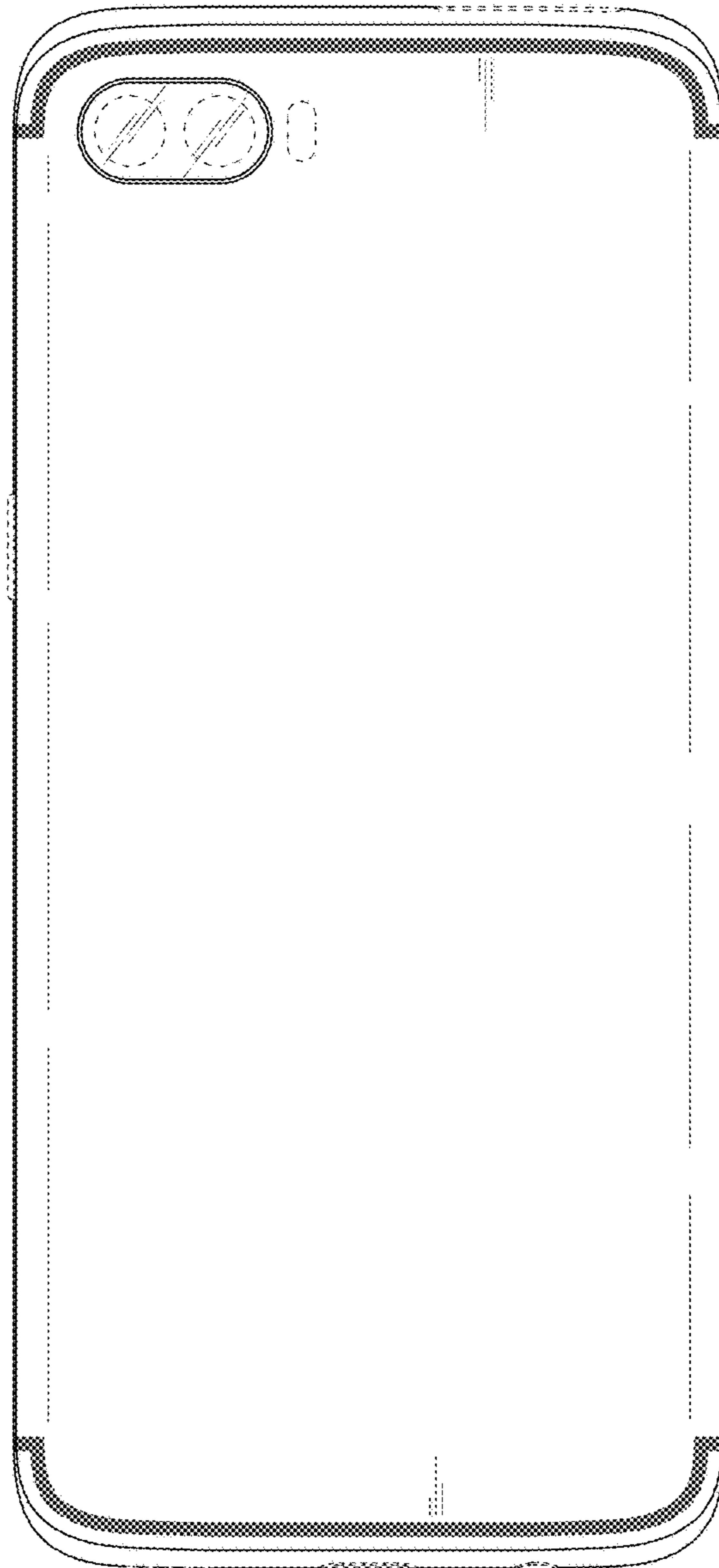


FIG. 58



FIG. 59





FIG. 60



FIG. 61

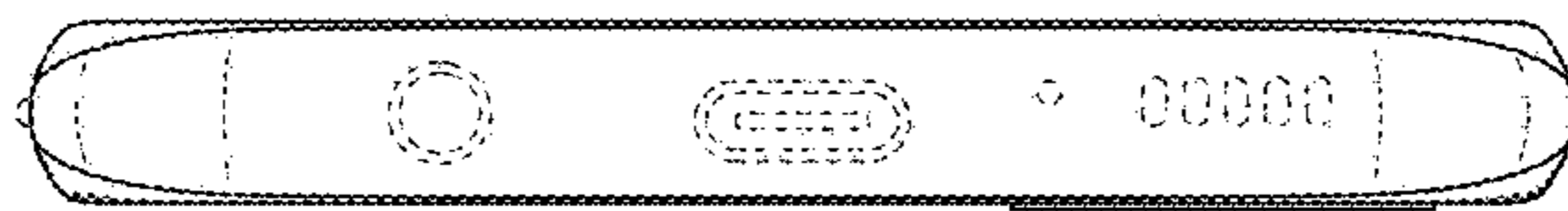
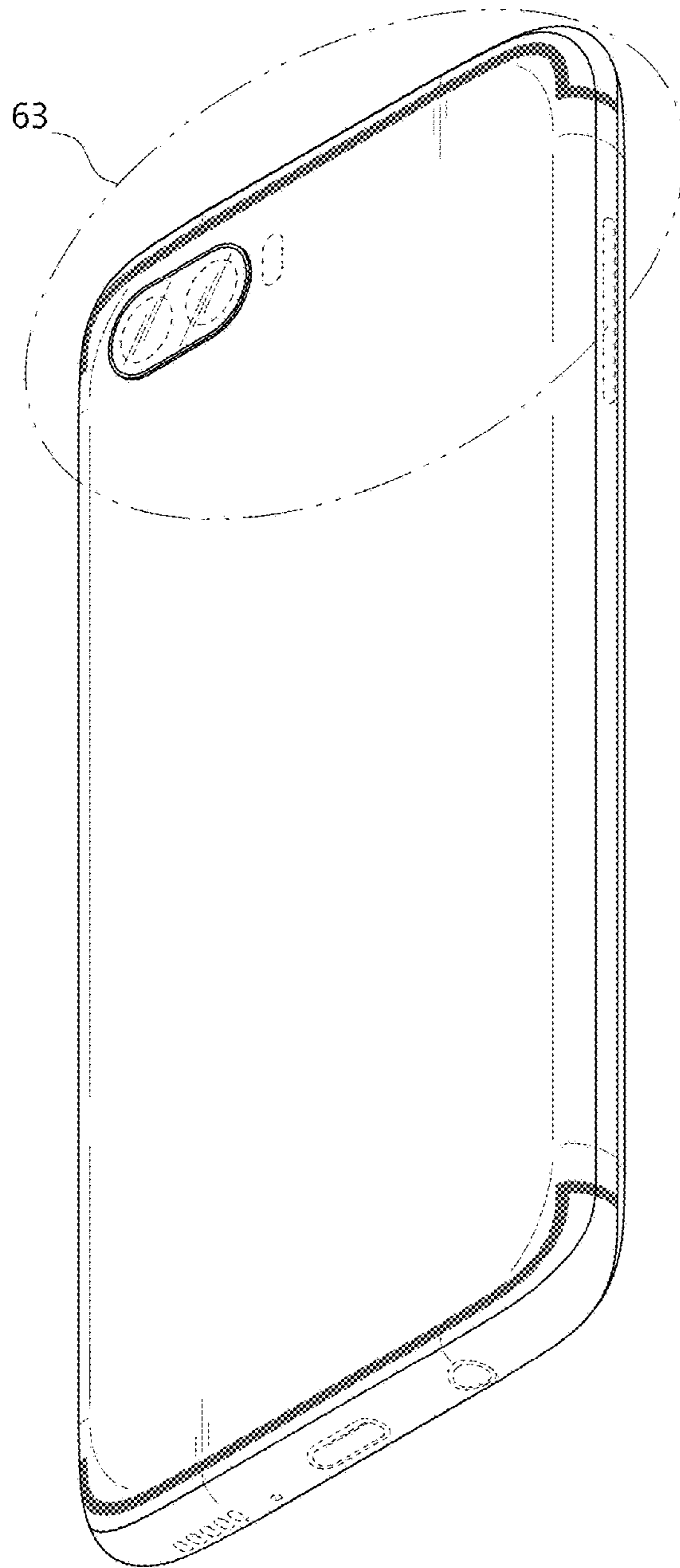


FIG. 62



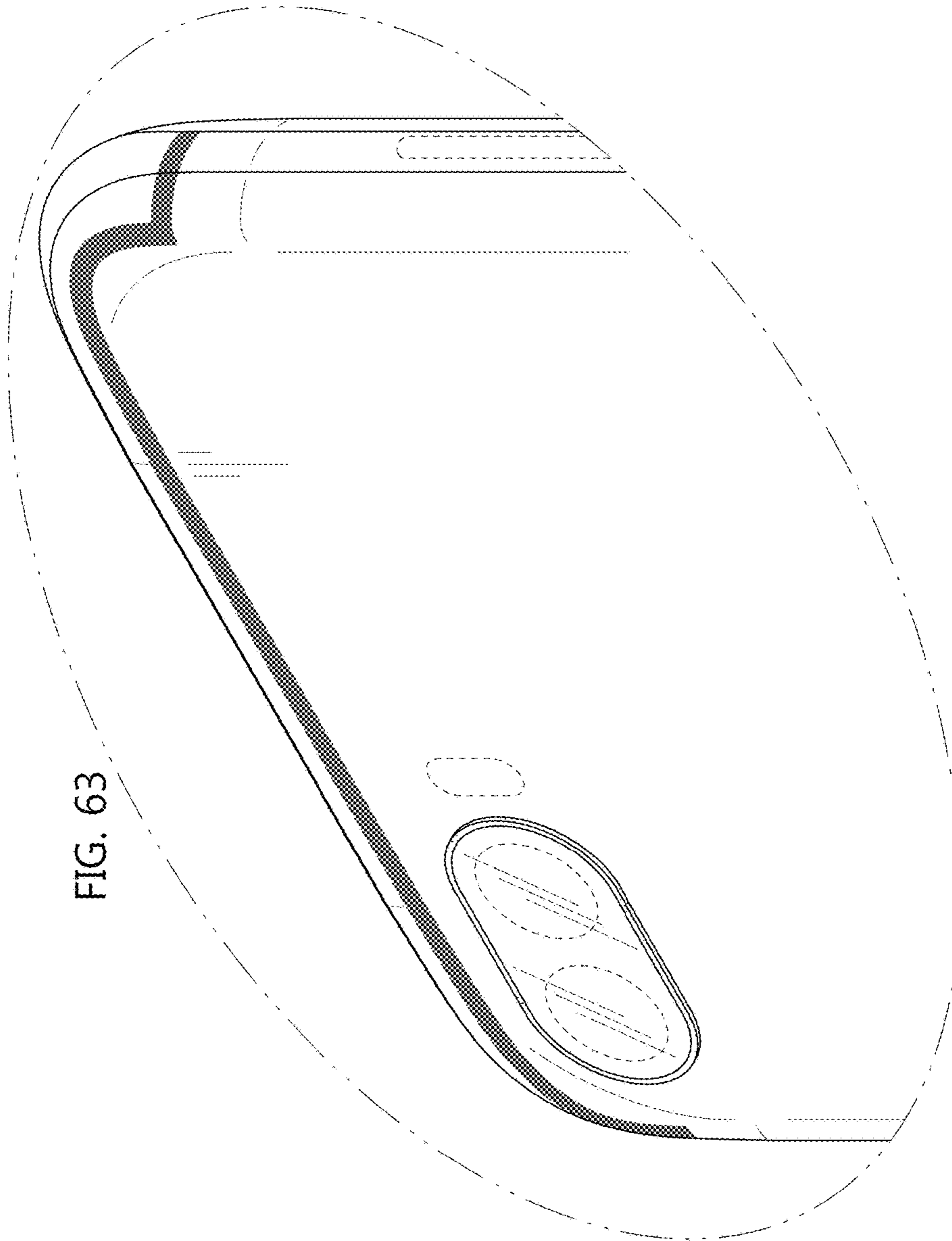


FIG. 63

FIG. 64

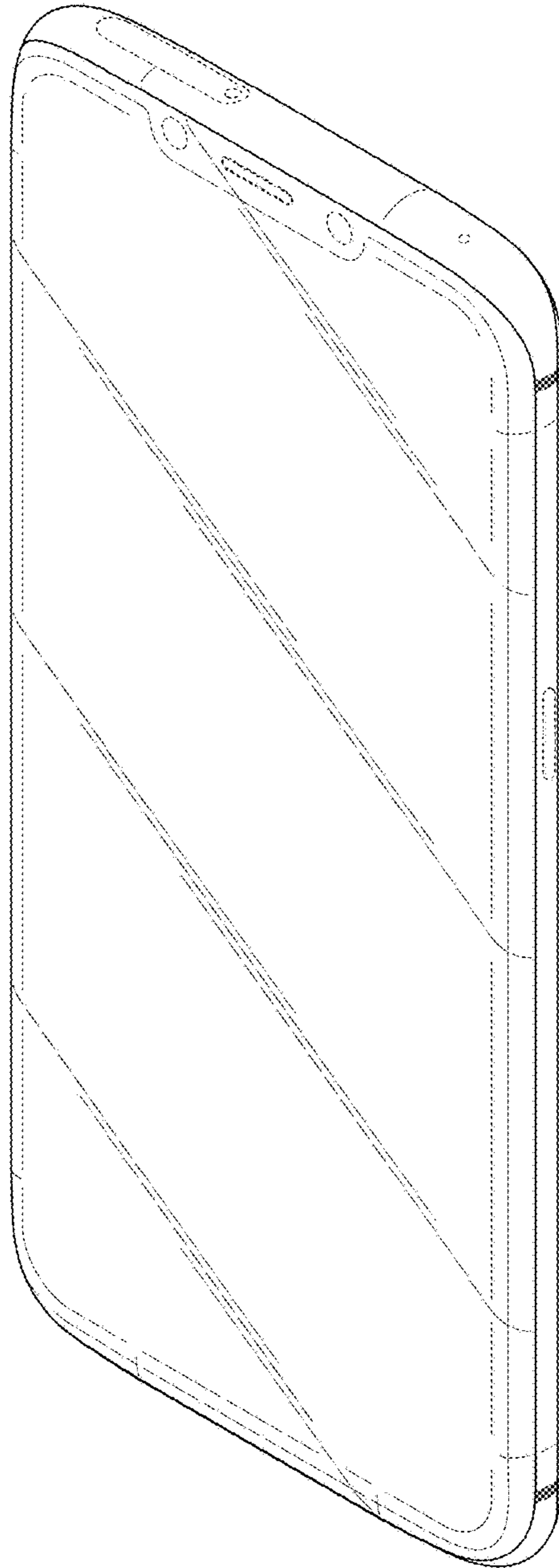


FIG. 65

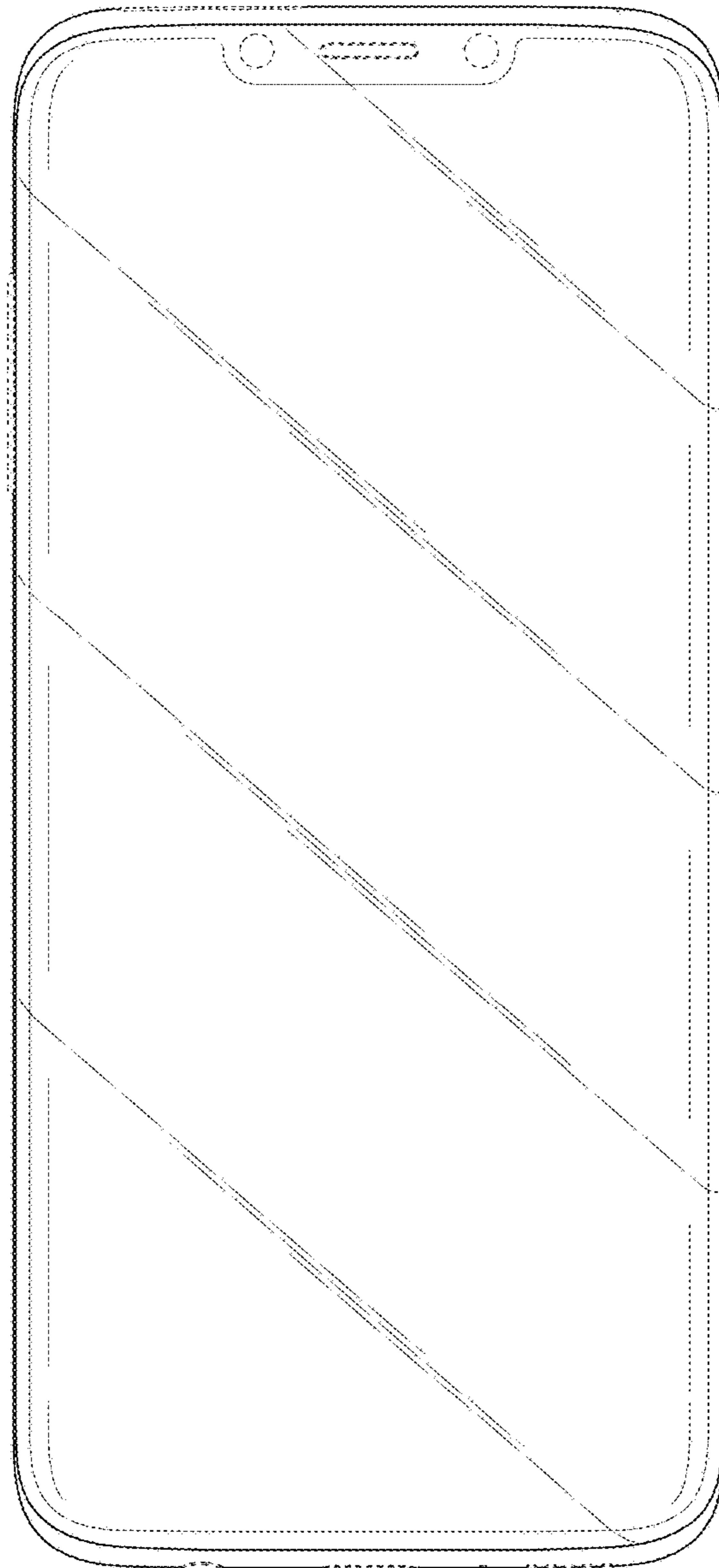


FIG. 66

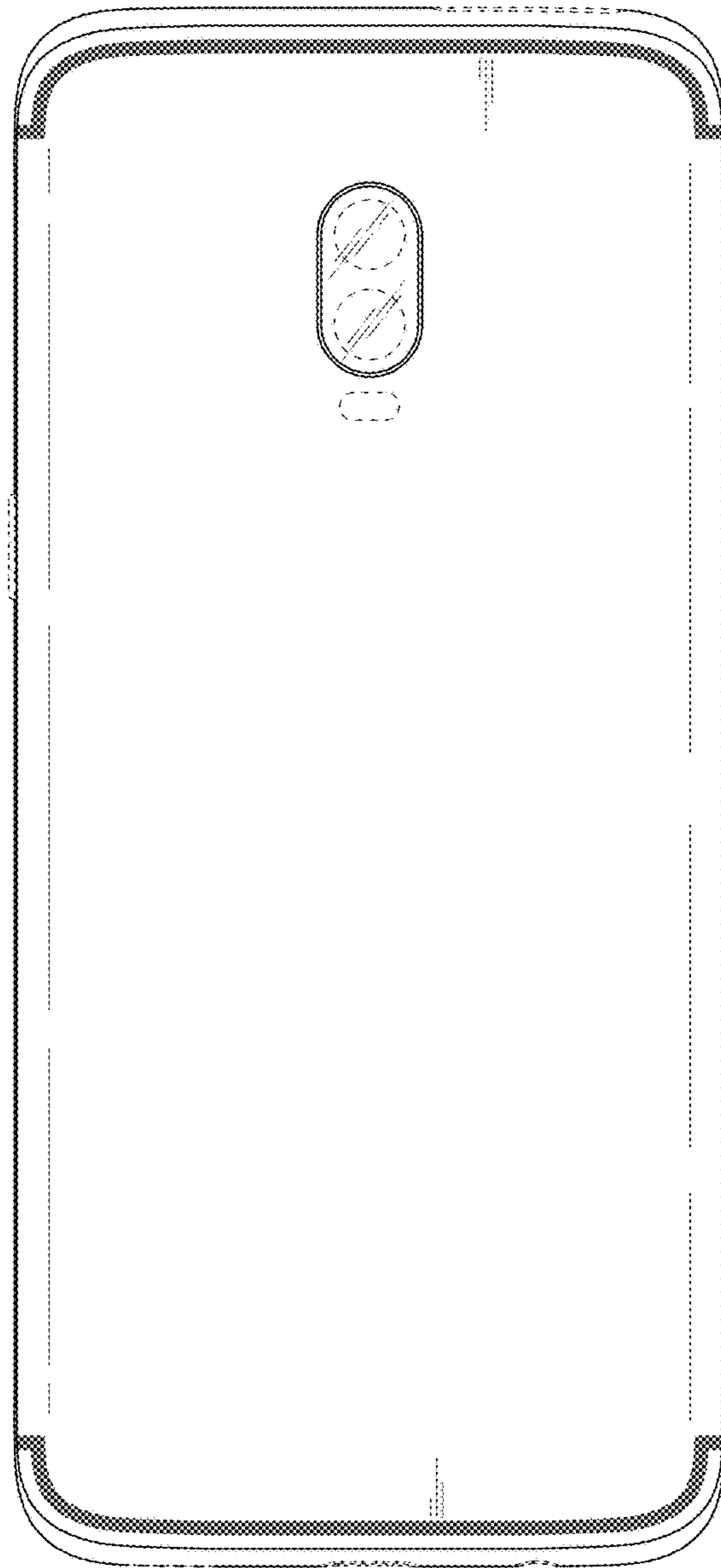


FIG. 67

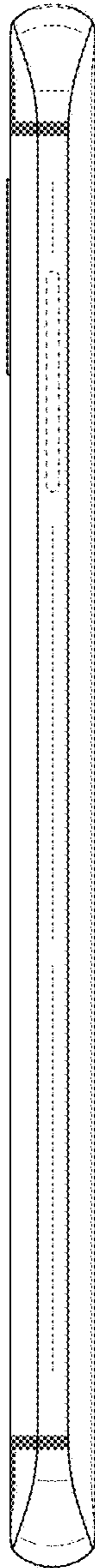


FIG. 68

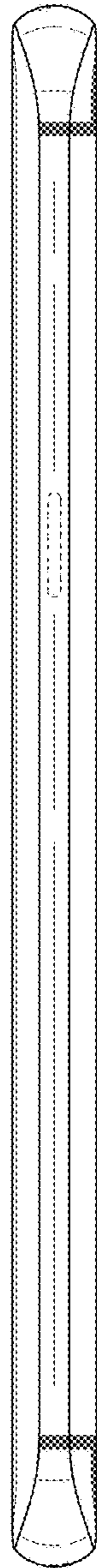




FIG. 69



FIG. 70

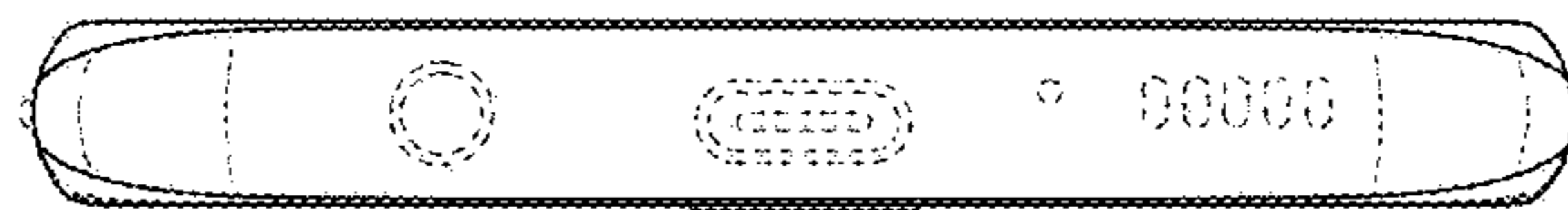
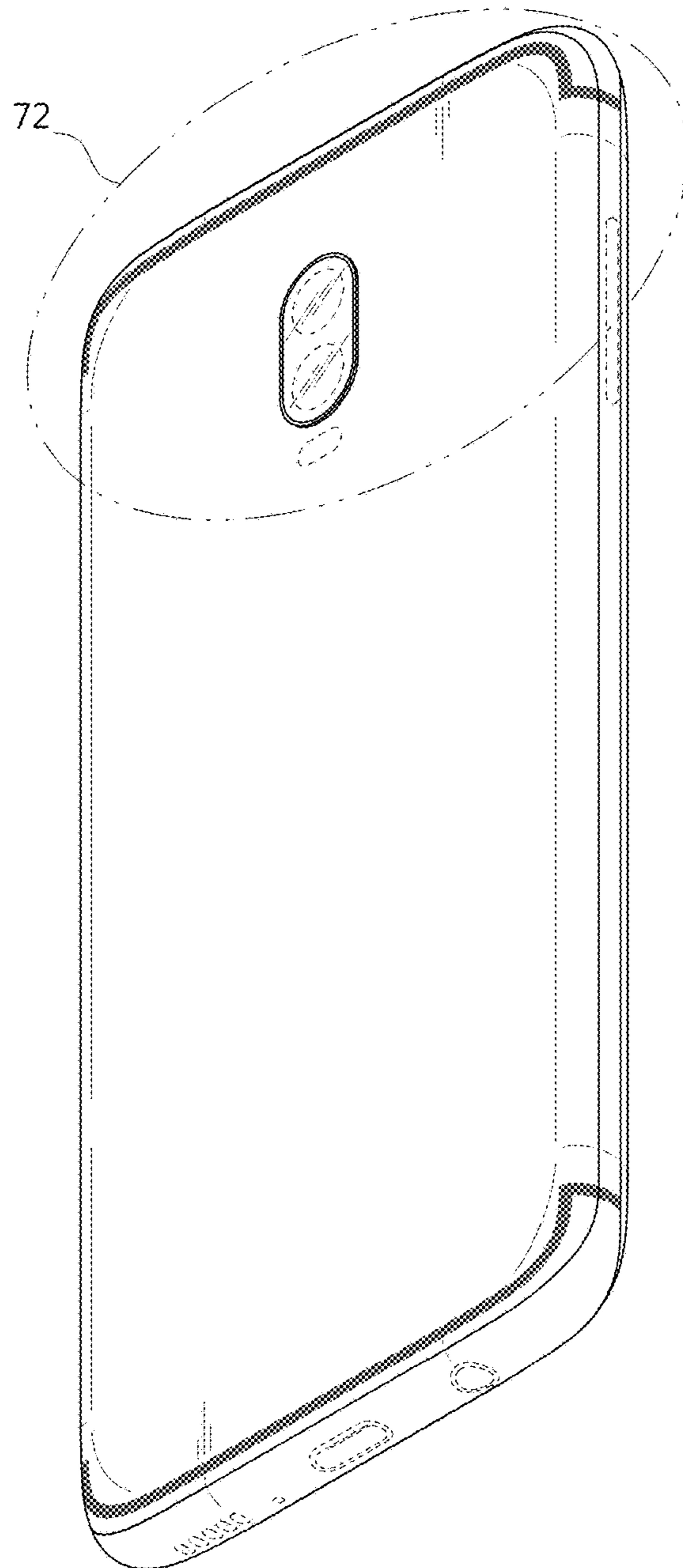


FIG. 71



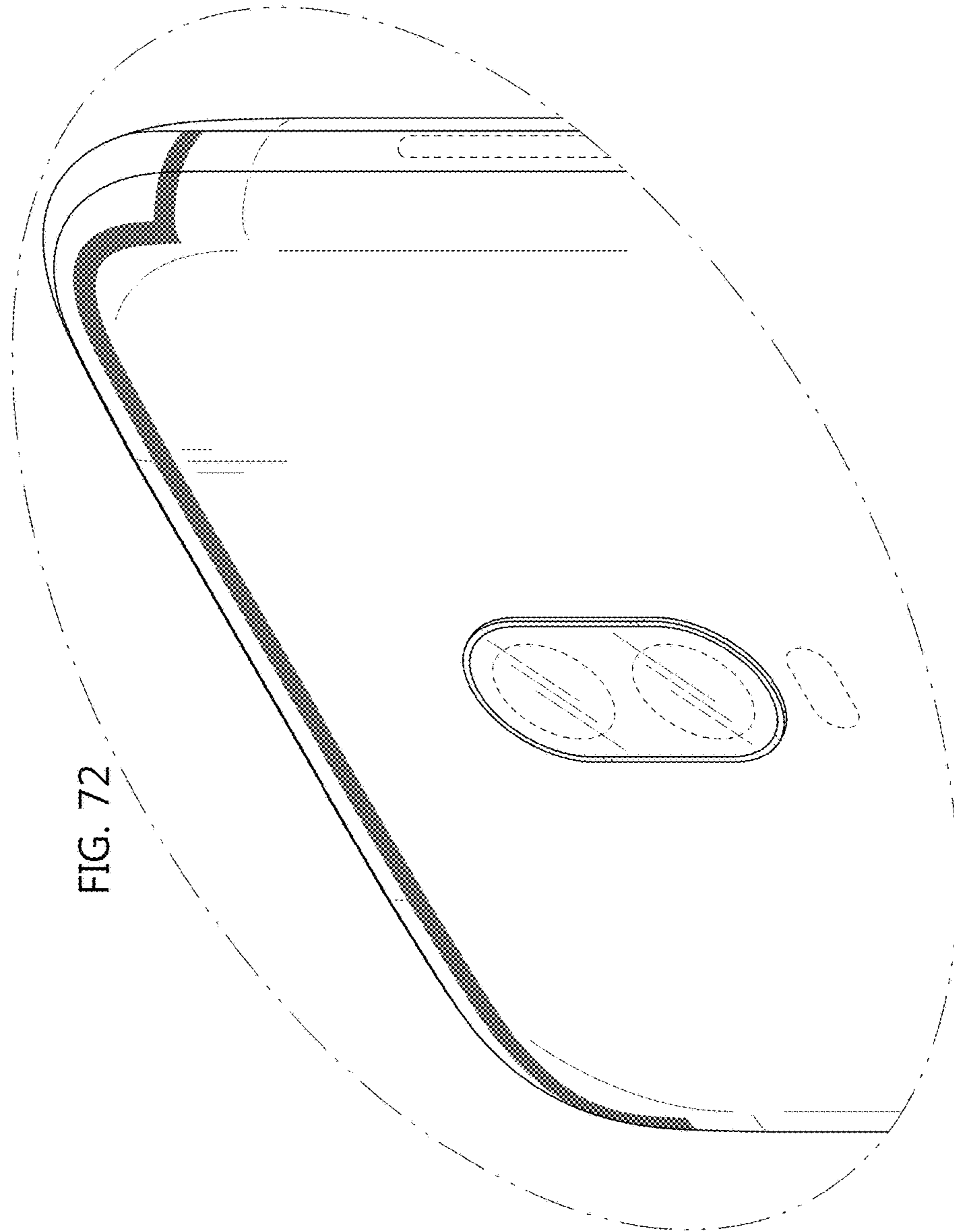


FIG. 72

FIG. 73

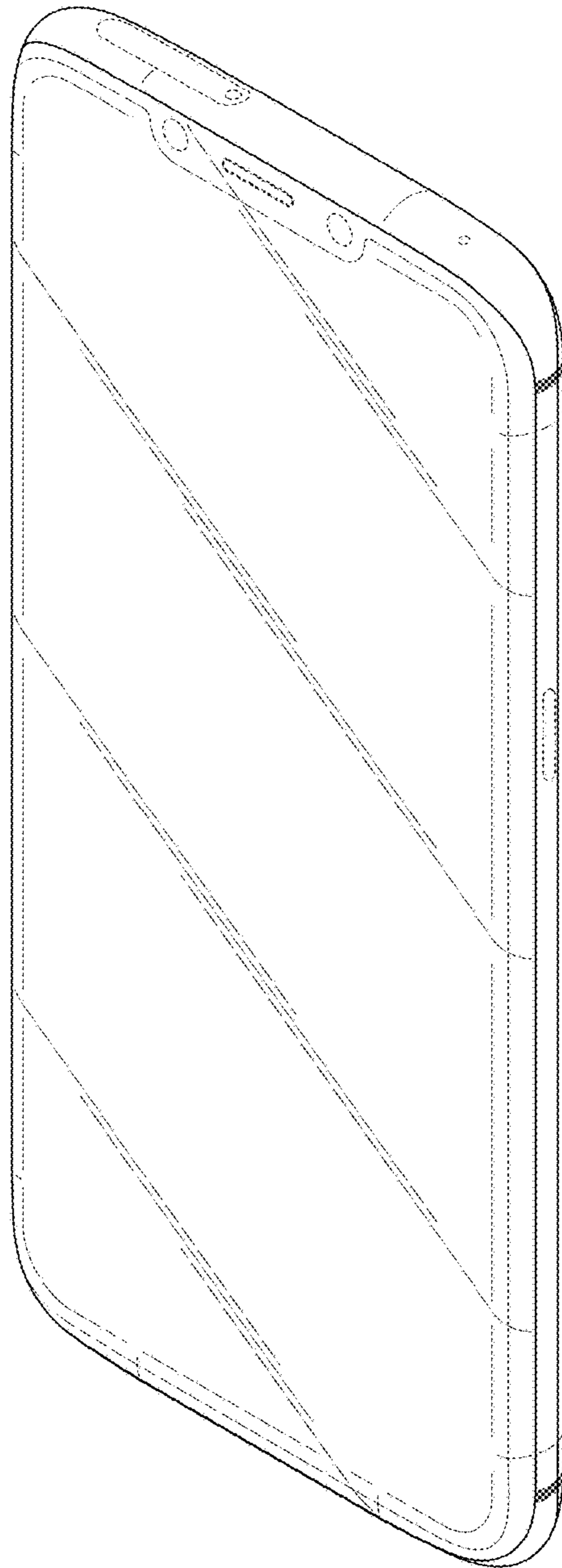


FIG. 74

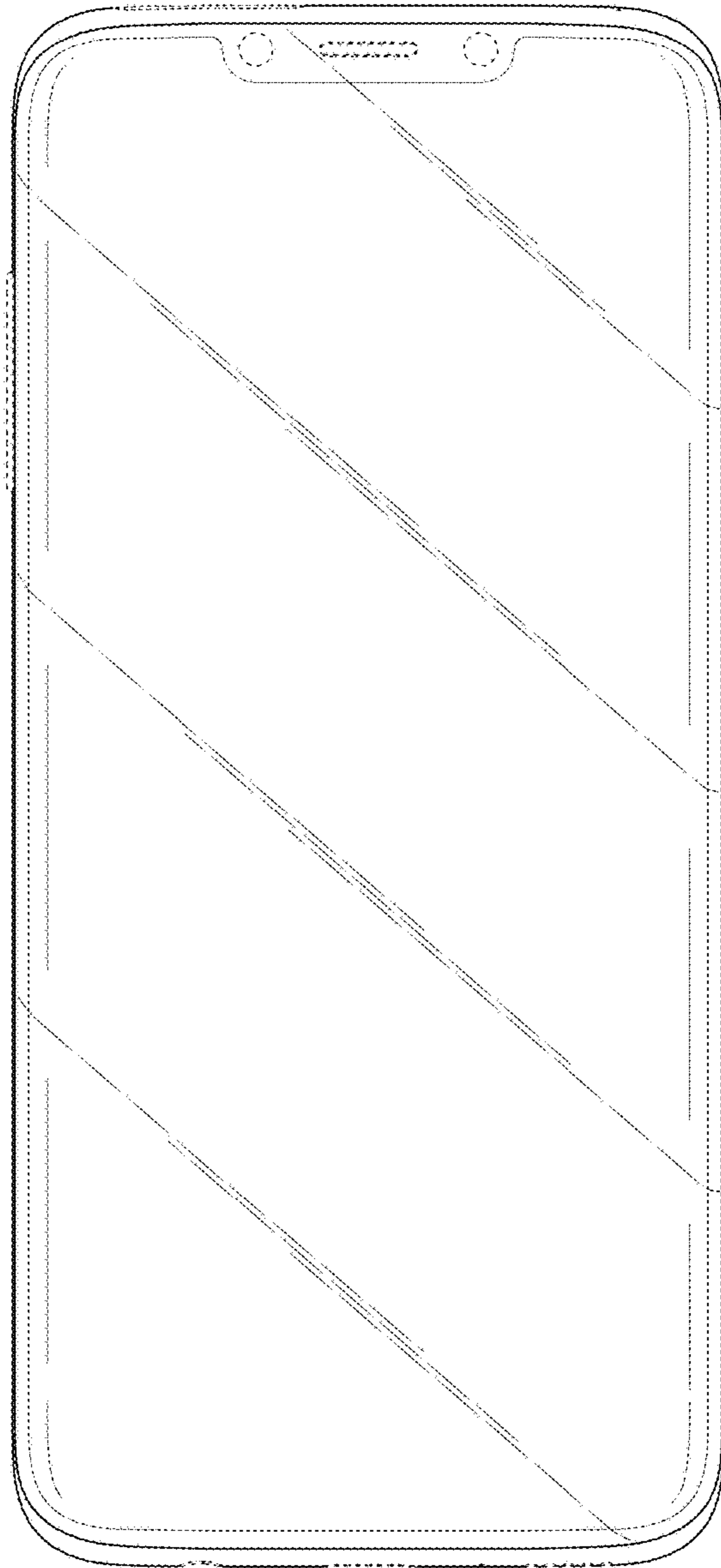


FIG. 75

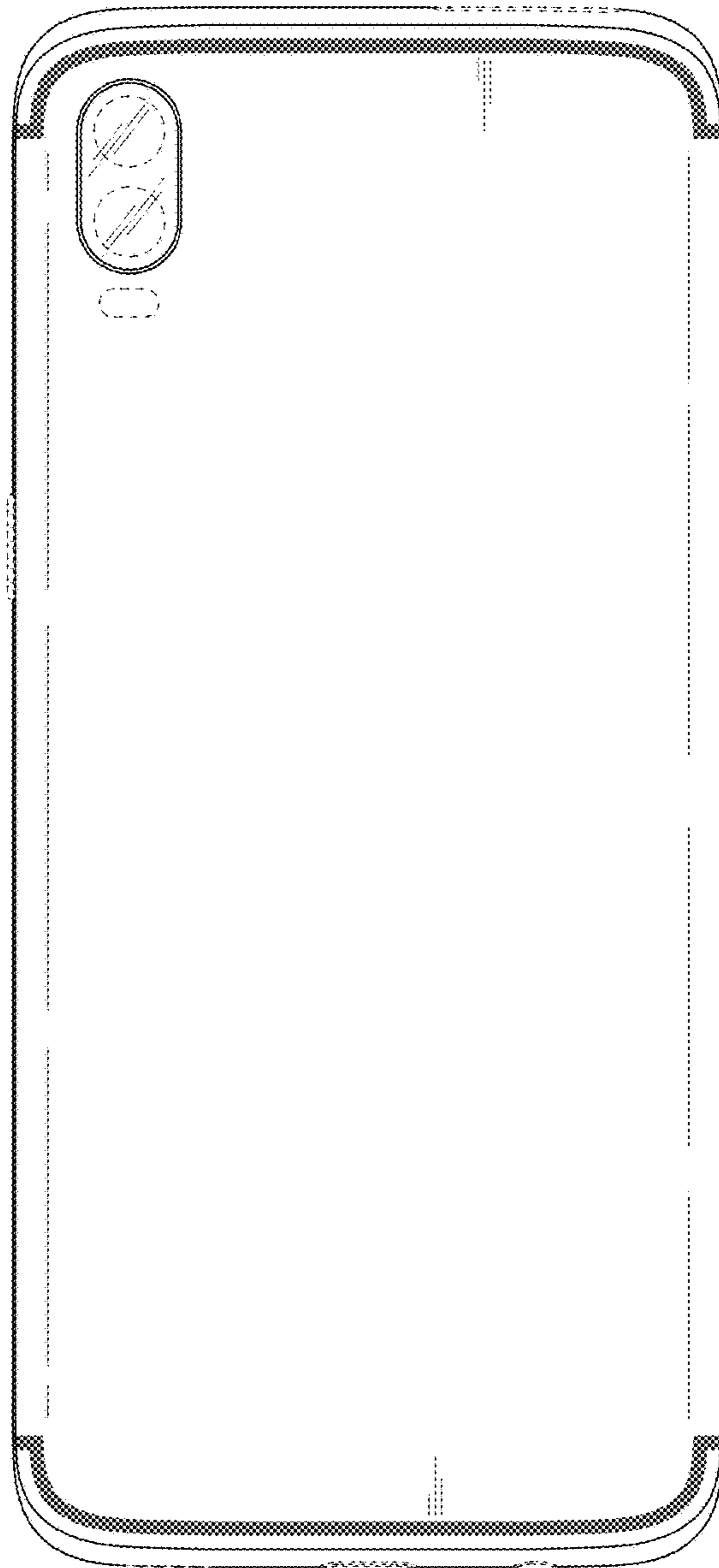


FIG. 76

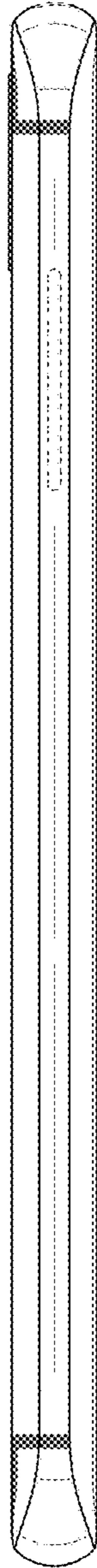


FIG. 77

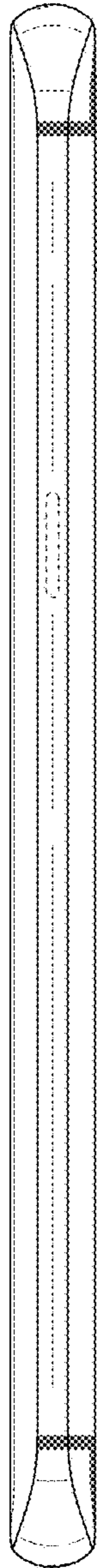




FIG. 78



FIG. 79

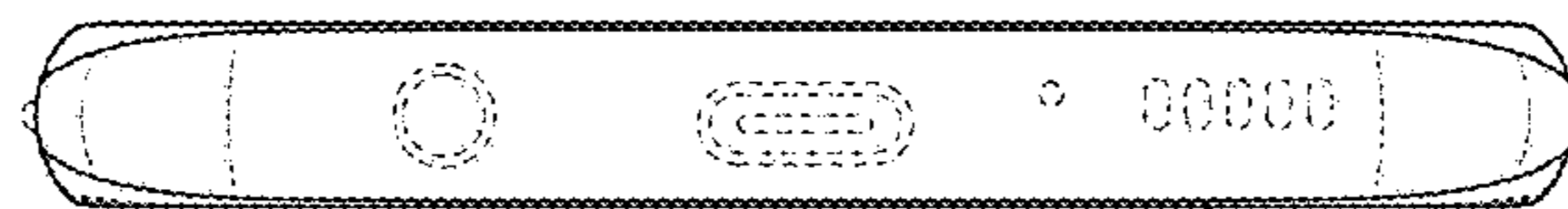
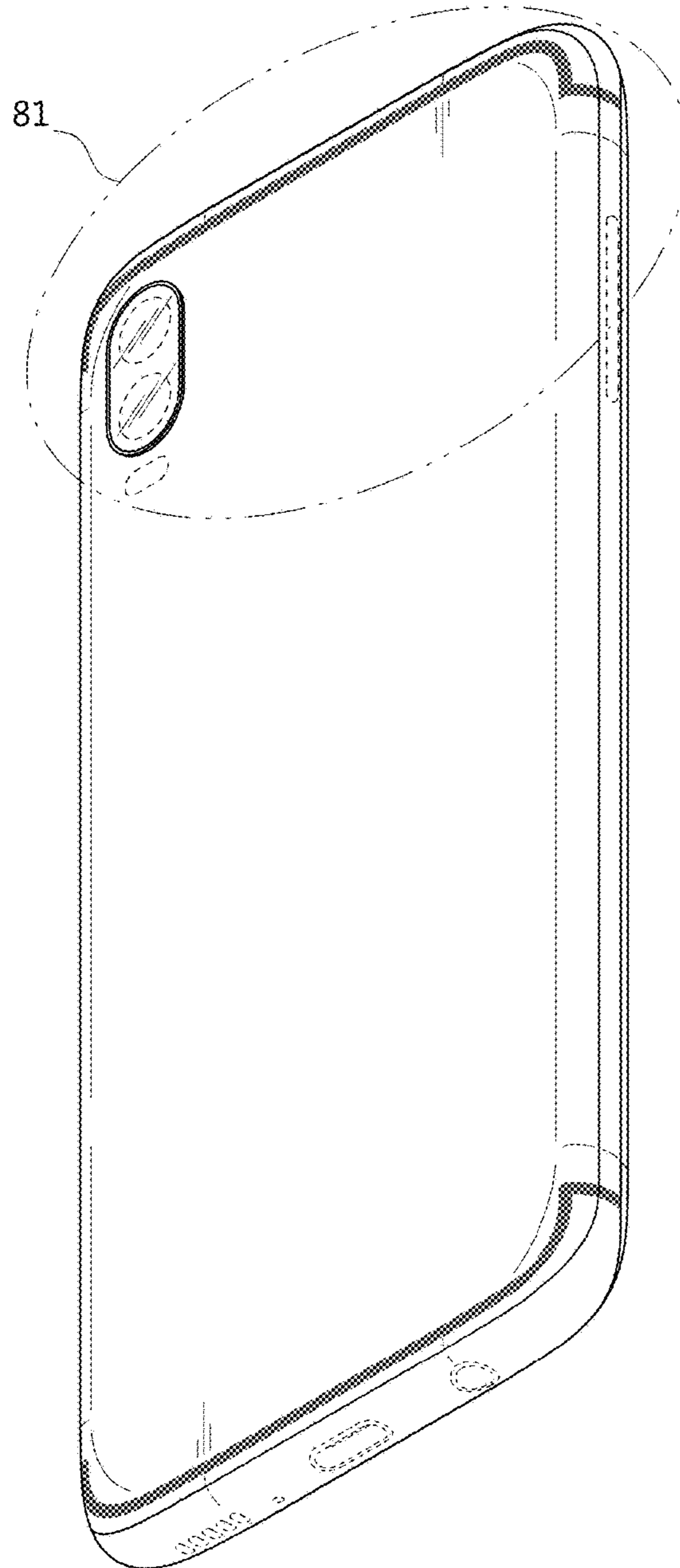


FIG. 80



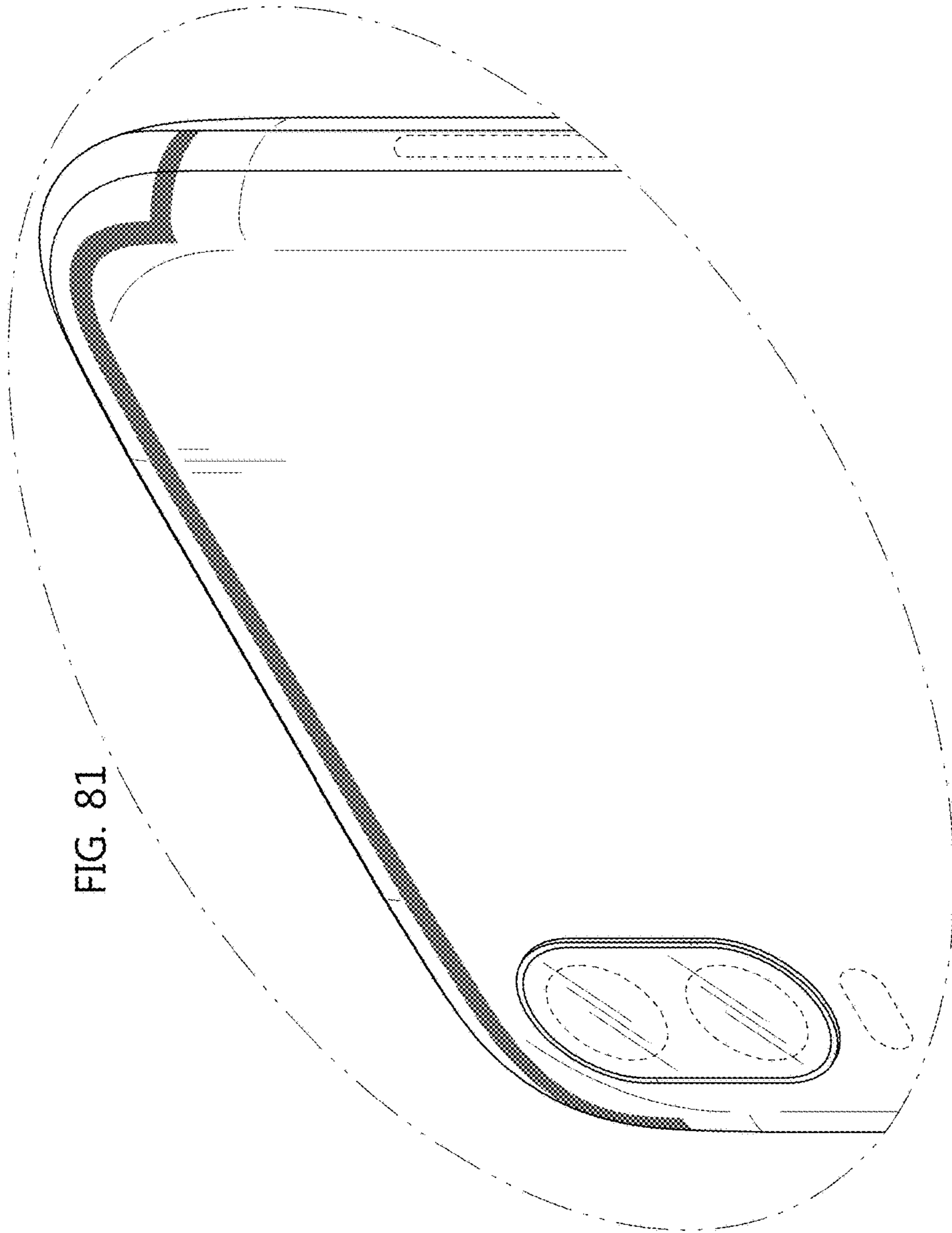


FIG. 81