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Lim et al.

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(54) ELECTROPHORESIS SYSTEM

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(58) Field of Classification Search
USPC D24/216, 222, 224, 225, 226, 227, 231, 232, 233
CPC B01D 57/02; C07K 1/26; C07K 1/24; B01L 3/0268; B01L 3/0275; B01L 3/5085; B01L 3/502707; B01L 9/52; G01N 27/447; G01N 27/44704; G01N 27/44756
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

D231,609 S *	5/1974	Vanden Broek	D24/233
5,582,702 A	12/1996	Cabilly et al.	
D537,951 S *	3/2007	Okamoto	D24/233
D556,914 S *	12/2007	Okamoto	D24/233

(Continued)

FOREIGN PATENT DOCUMENTS

CN	108490204 A	9/2018
CN	304876031	11/2018

(Continued)

OTHER PUBLICATIONS

“www.bostonind.com: Qiagen QIAcube Connect DNA/RNA/ Protein Purification.” Found online Jan. 31, 2024 at youtube.com. Reference dated Nov. 2, 2023. Retrieved fromhttps://www.youtube.com/watch?v=wrHQ-HCH_8o.*

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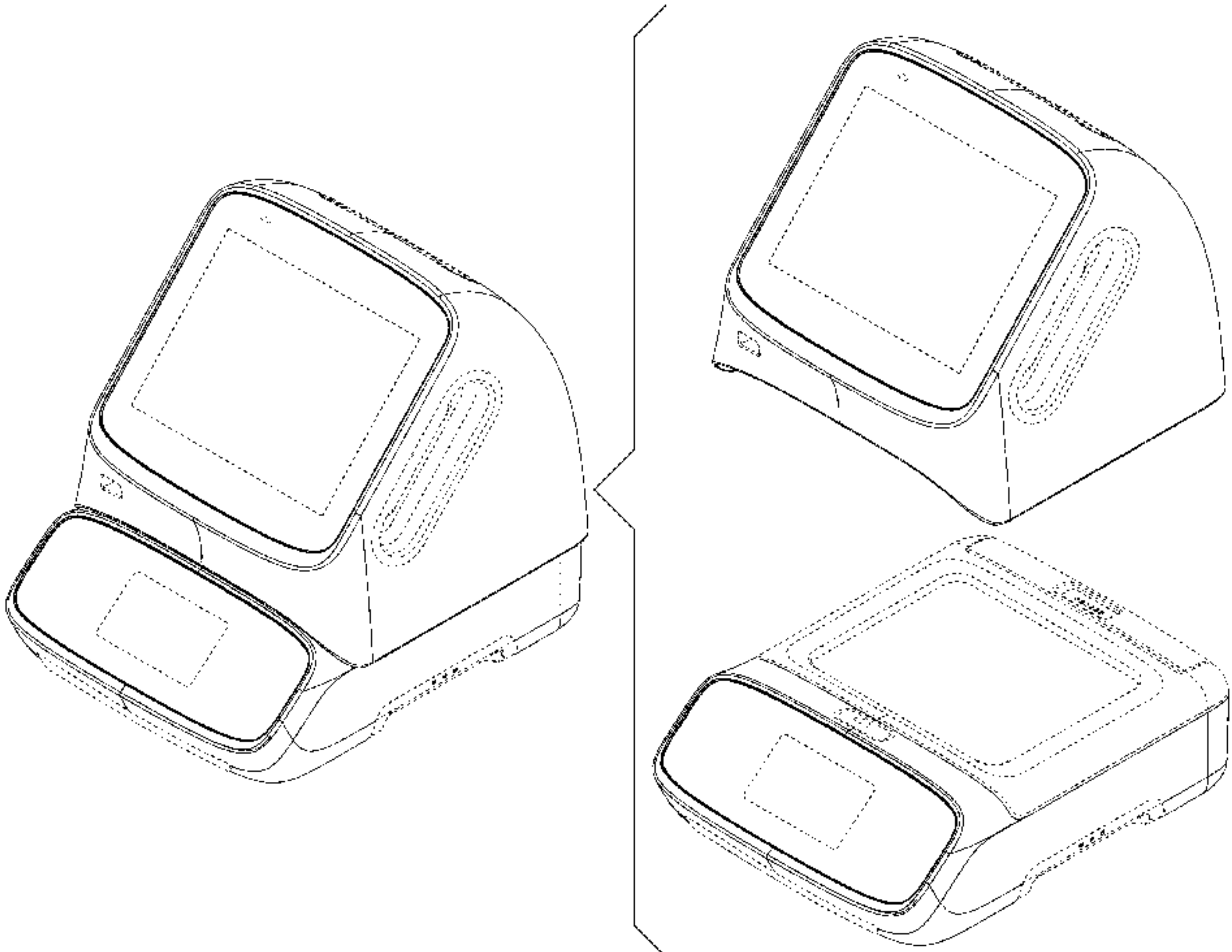
(57) CLAIM

The ornamental design for an electrophoresis system as shown and described.

DESCRIPTION

FIG. 1 illustrates a front, right perspective view of an electrophoresis device, showing our new design;
FIG. 2 illustrates a front, right perspective view of the electrophoresis device in exploded format to illustrate separable top and bottom components;
FIG. 3 illustrates a front elevation view of the electrophoresis device of FIGS. 1 and 2;
FIG. 4 illustrates a rear elevation view thereof;
FIG. 5 illustrates a top plan view thereof;
FIG. 6 illustrates a bottom plan view thereof;
FIG. 7 illustrates a right side elevation view thereof;
FIG. 8 illustrates a left side elevation view thereof;
FIG. 9 illustrates a top plan view of the bottom component of the electrophoresis device; and,
FIG. 10 illustrates a bottom plan view of the top component of the electrophoresis device.
In the drawings, the equal-length broken lines depict portions of the electrophoresis system that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D819,225 S * 5/2018 Mead D24/233
D827,859 S * 9/2018 Mathers D24/232
D833,033 S * 11/2018 Foster D24/233
D888,985 S * 6/2020 Hsieh D24/232
D895,841 S 9/2020 Mathers et al.
D965,816 S * 10/2022 Luther D24/233
D982,181 S * 3/2023 Tanaka D24/232
D997,381 S * 8/2023 Fang D24/216
2016/0061774 A1 3/2016 Updyke et al.
2022/0097057 A1 * 3/2022 Lin B01L 3/502723
2022/0099624 A1 * 3/2022 Chang G01N 27/44756
2023/0221280 A1 * 7/2023 Lim G01N 27/44721
204/612

FOREIGN PATENT DOCUMENTS

CN 305011659 * 1/2019
CN 109314625 A 2/2019

CN 305531838 * 1/2020
CN 307088455 1/2022
JP 3921083 B2 5/2007
JP D1423653 9/2011
KR 101185912 B1 9/2012

OTHER PUBLICATIONS

“Scilogex: Fastgel Gel Imaging System.” Found online Jan. 31, 2024 at youtube.com. Reference dated Feb. 13, 2020. Retrieved from <https://www.youtube.com/watch?v=-2ksrexZ3tg>.
“Thermo Fisher: Owl P82 Dual Gel Vertical Electrophoresis System.” Found online Jan. 31, 2024 at amazon.com. Reference dated Nov. 11, 2013. Retrieved from <https://www.amazon.com/Thermo-Fisher-P82-Vertical-Electrophoresis/dp/B00BZ4X8ZO>.
“MaxCyte: Understanding Flow Electroporation.” Found online Jan. 31, 2024 at youtube.com. Reference dated Jun. 27, 2023. Retrieved from <https://www.youtube.com/watch?v=BXXCenQGVCO>.

* cited by examiner

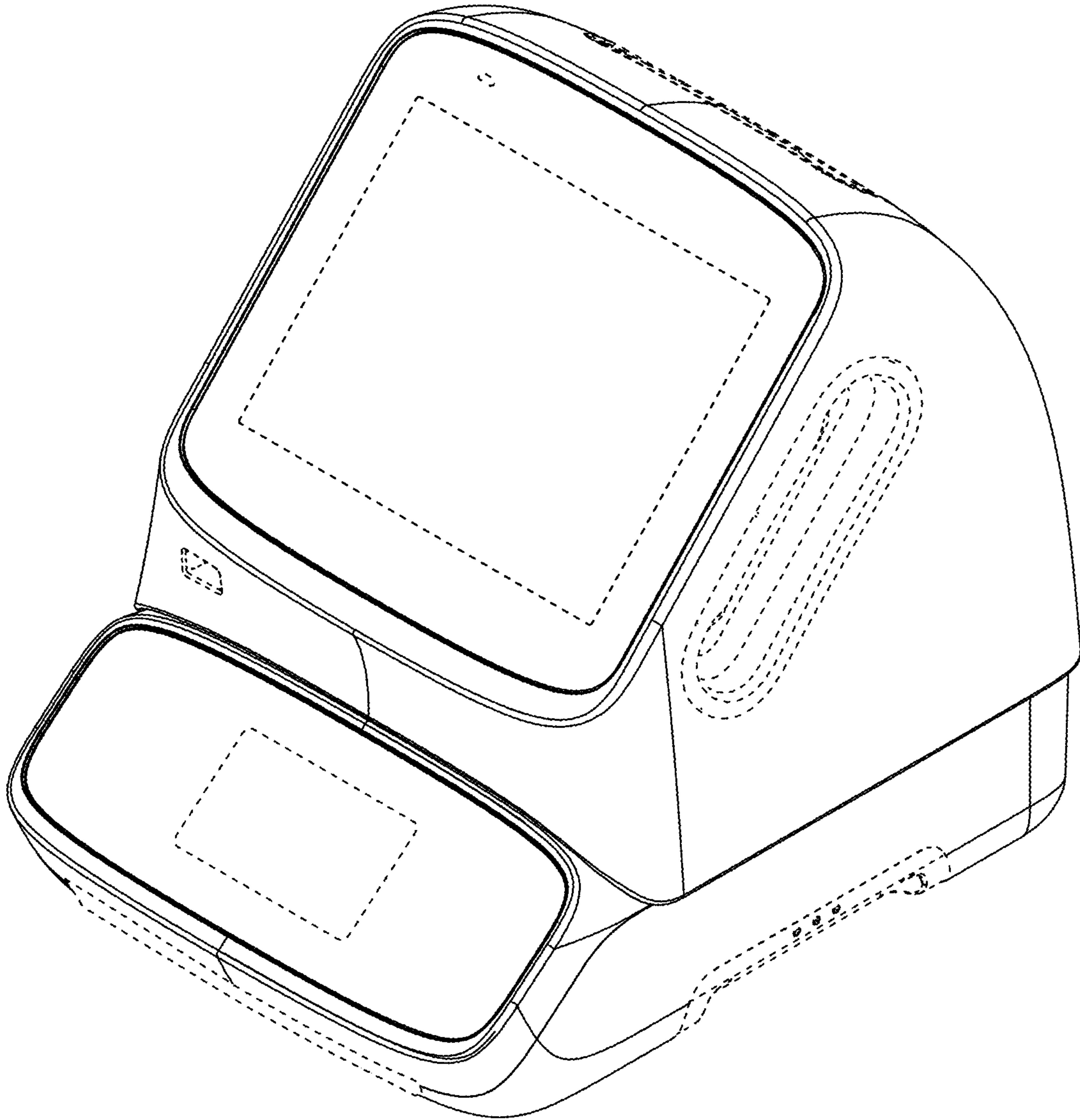


FIG. 1

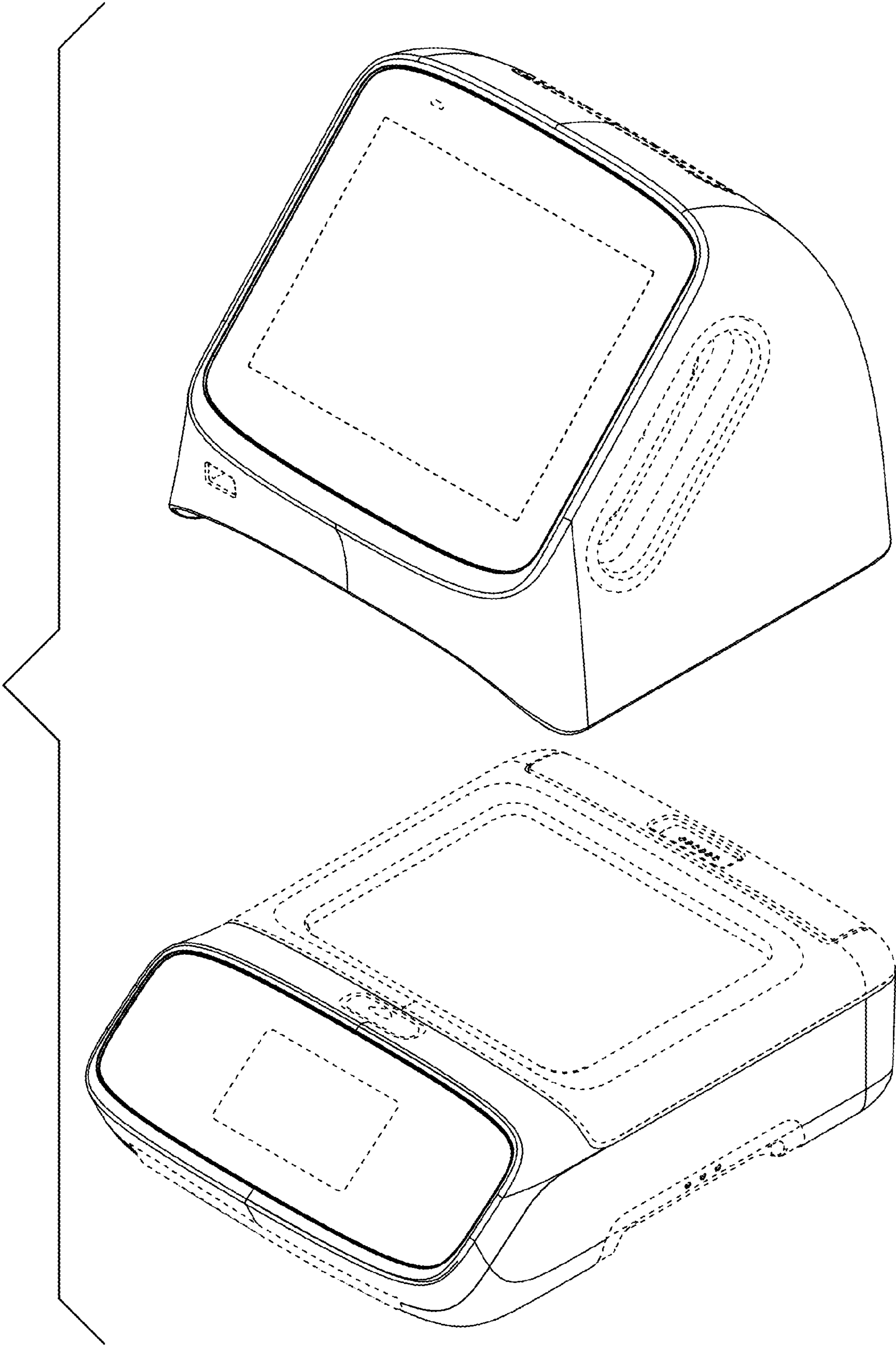


FIG. 2

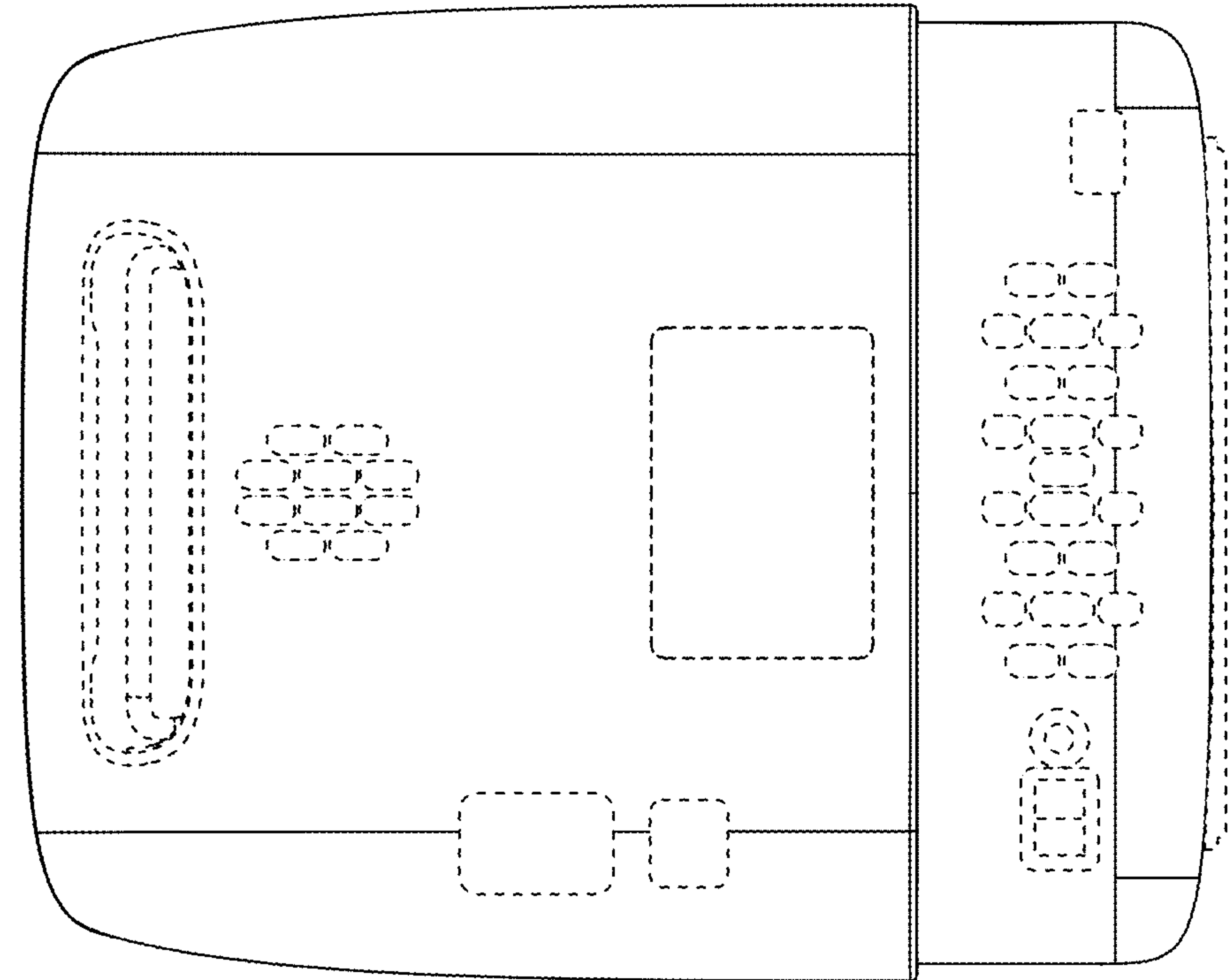


FIG. 3

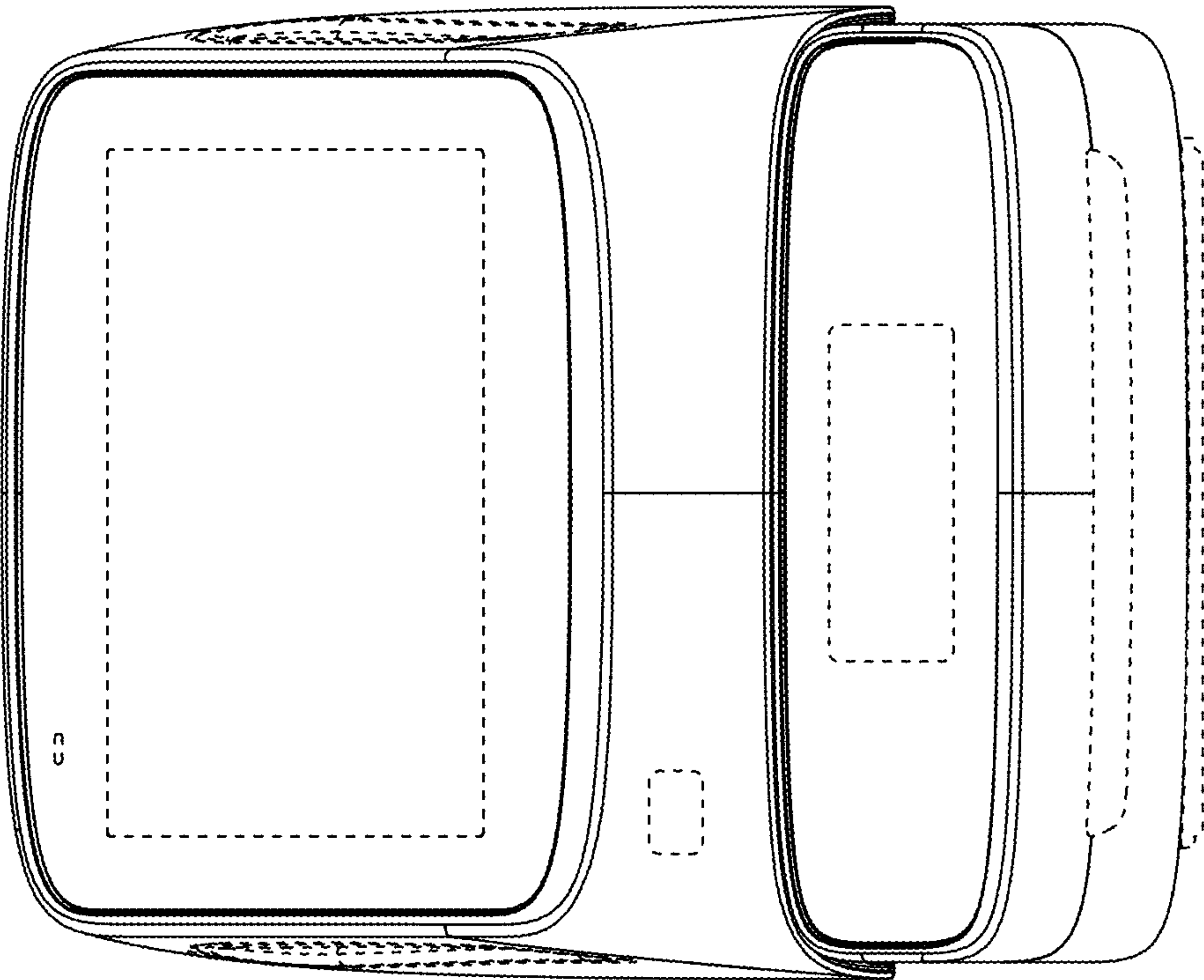


FIG. 4

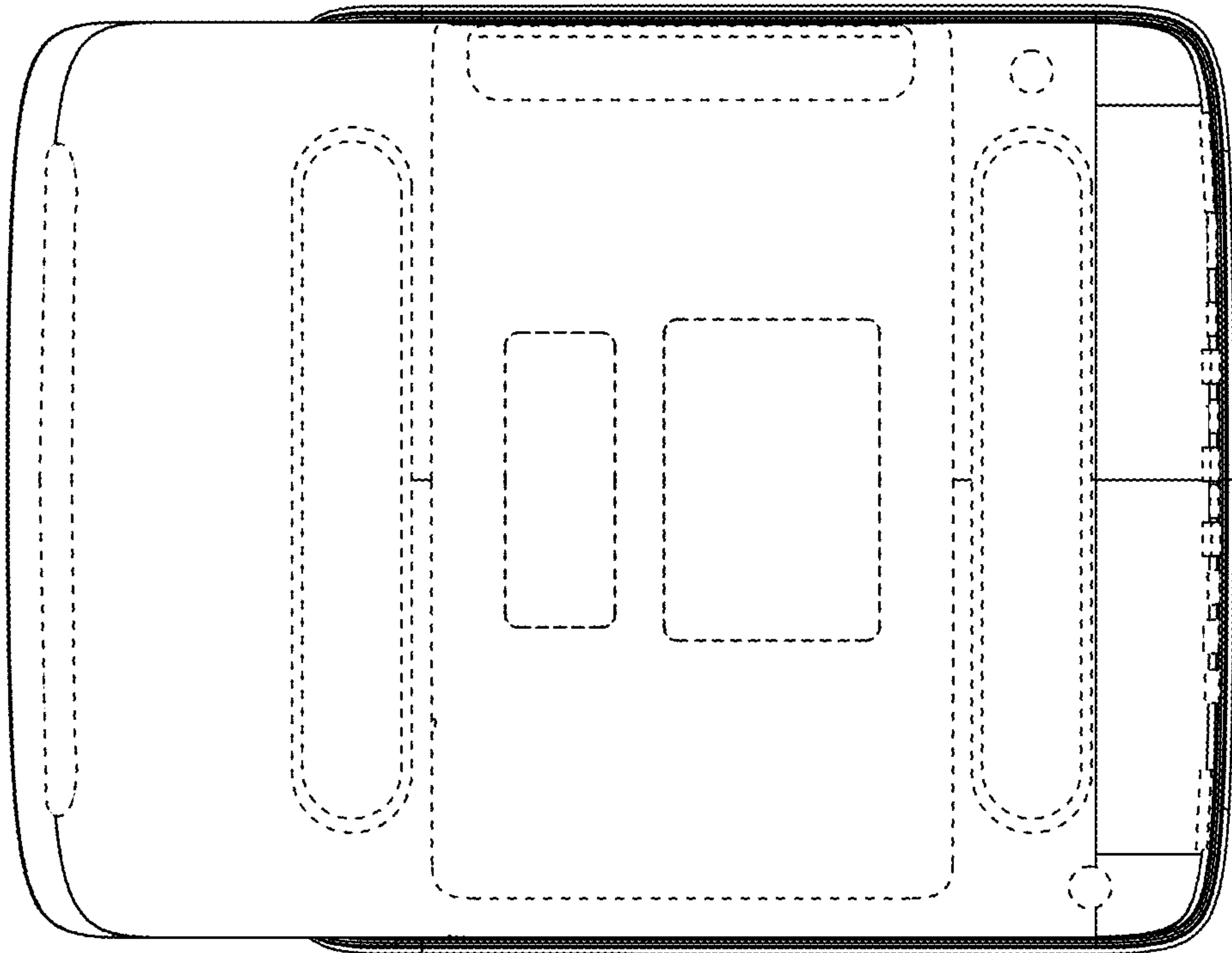


FIG. 5

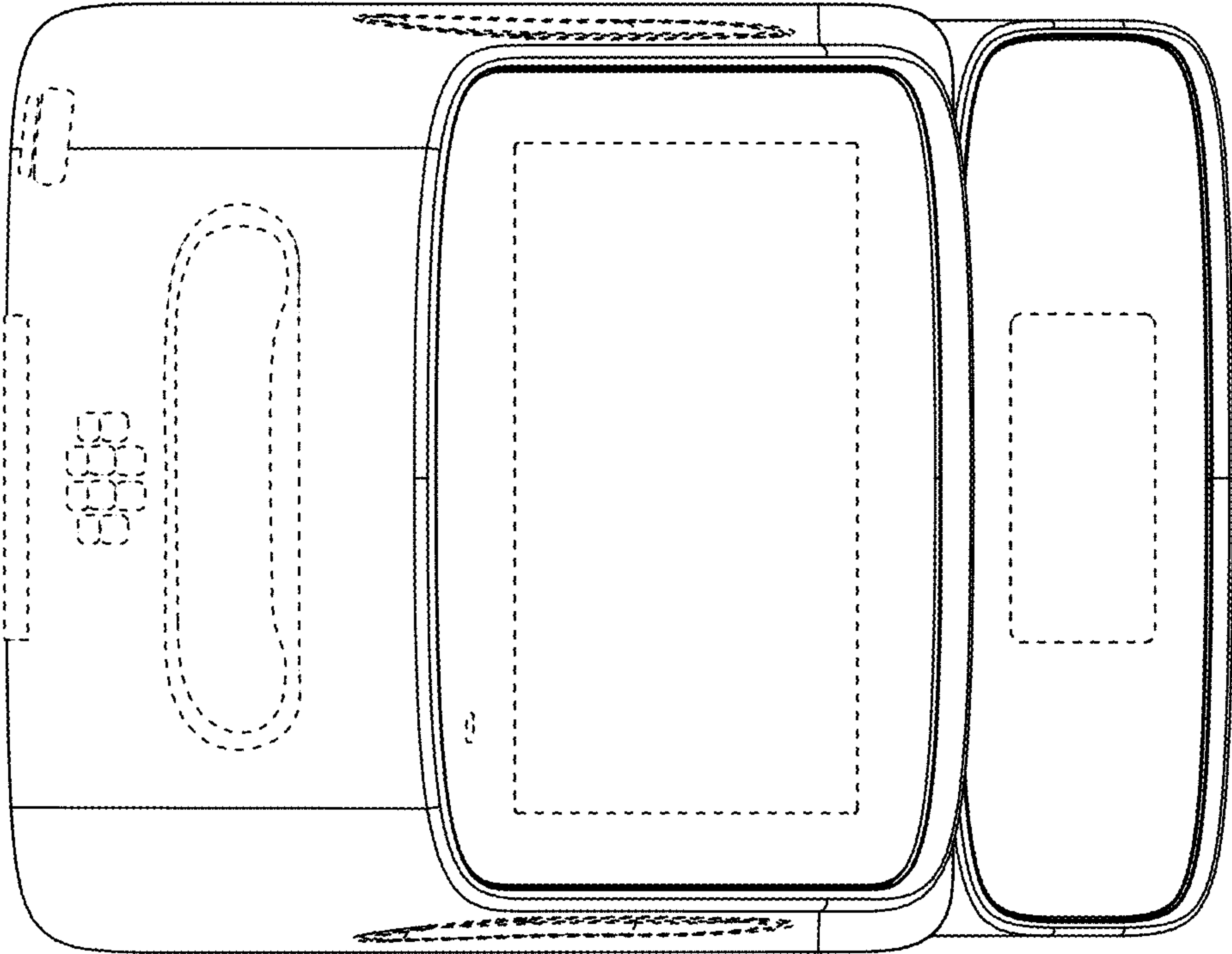
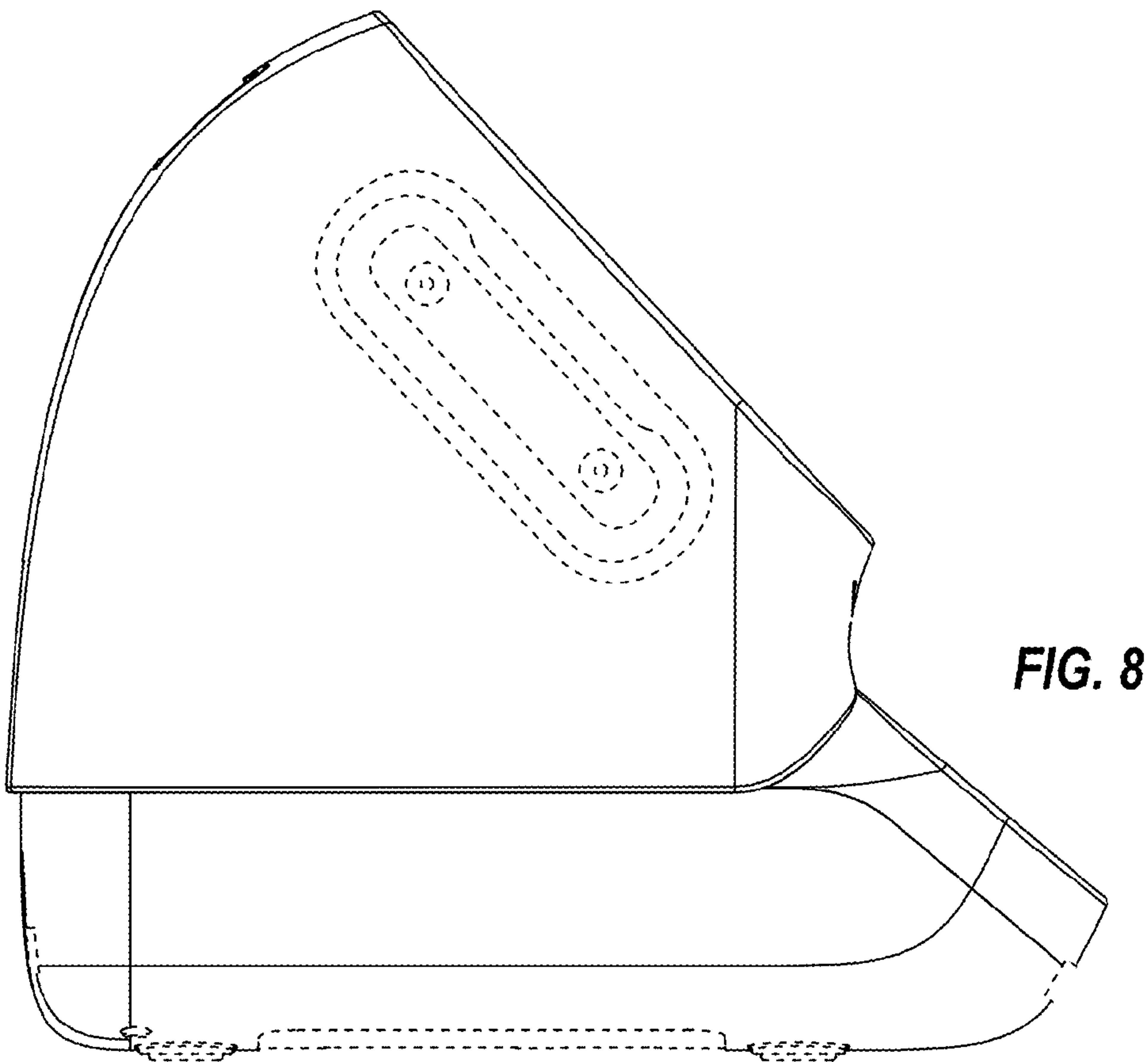
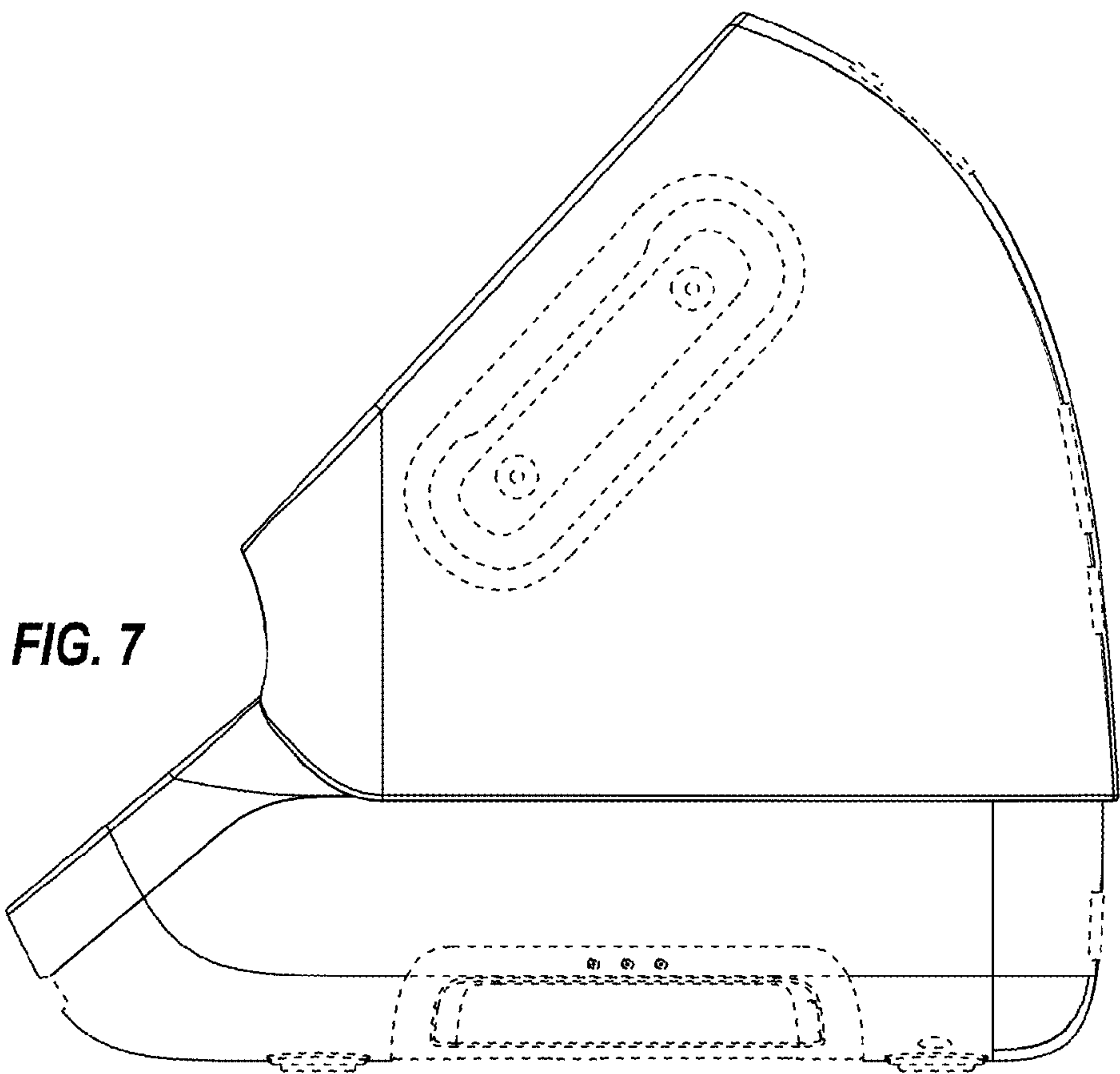


FIG. 6



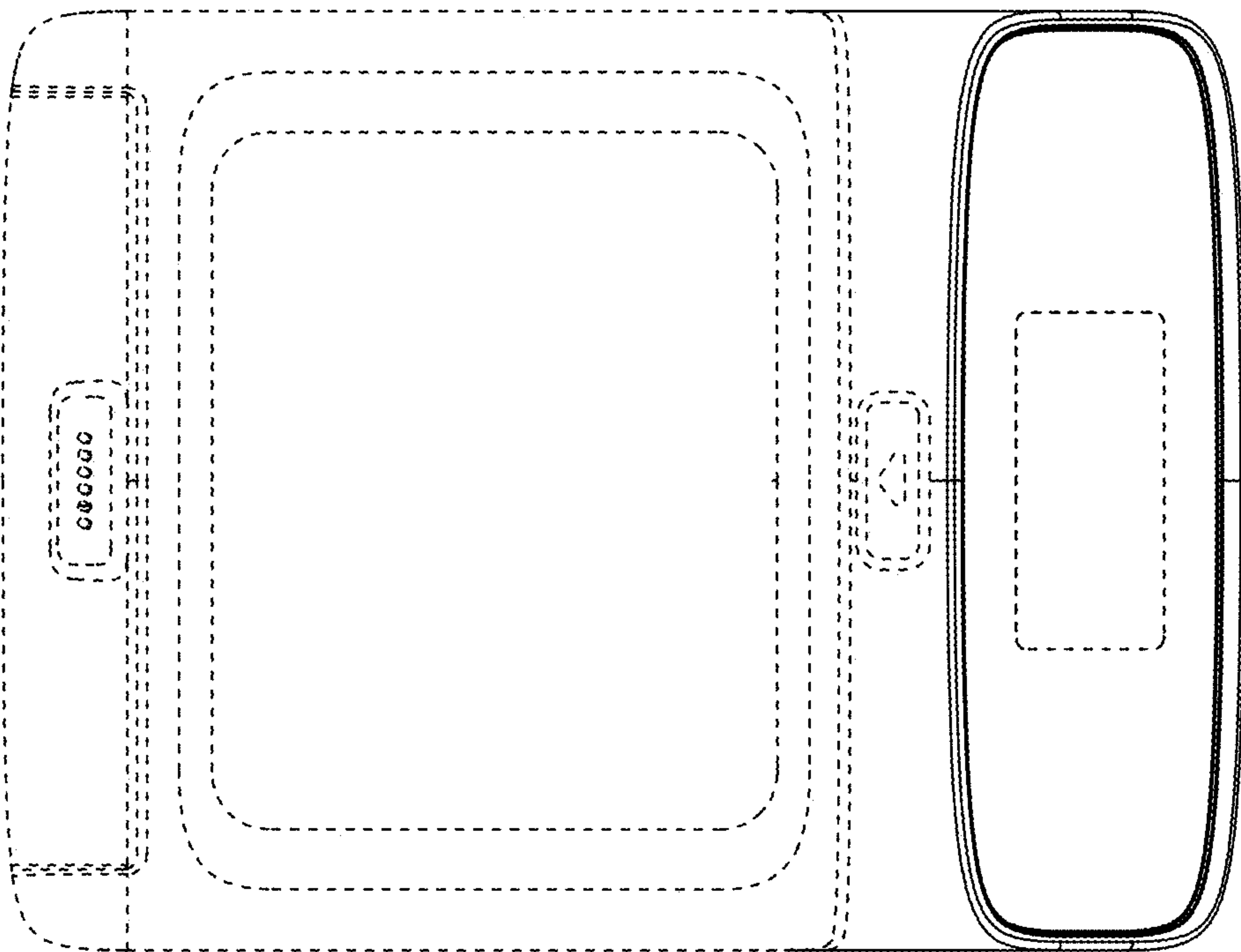


FIG. 9

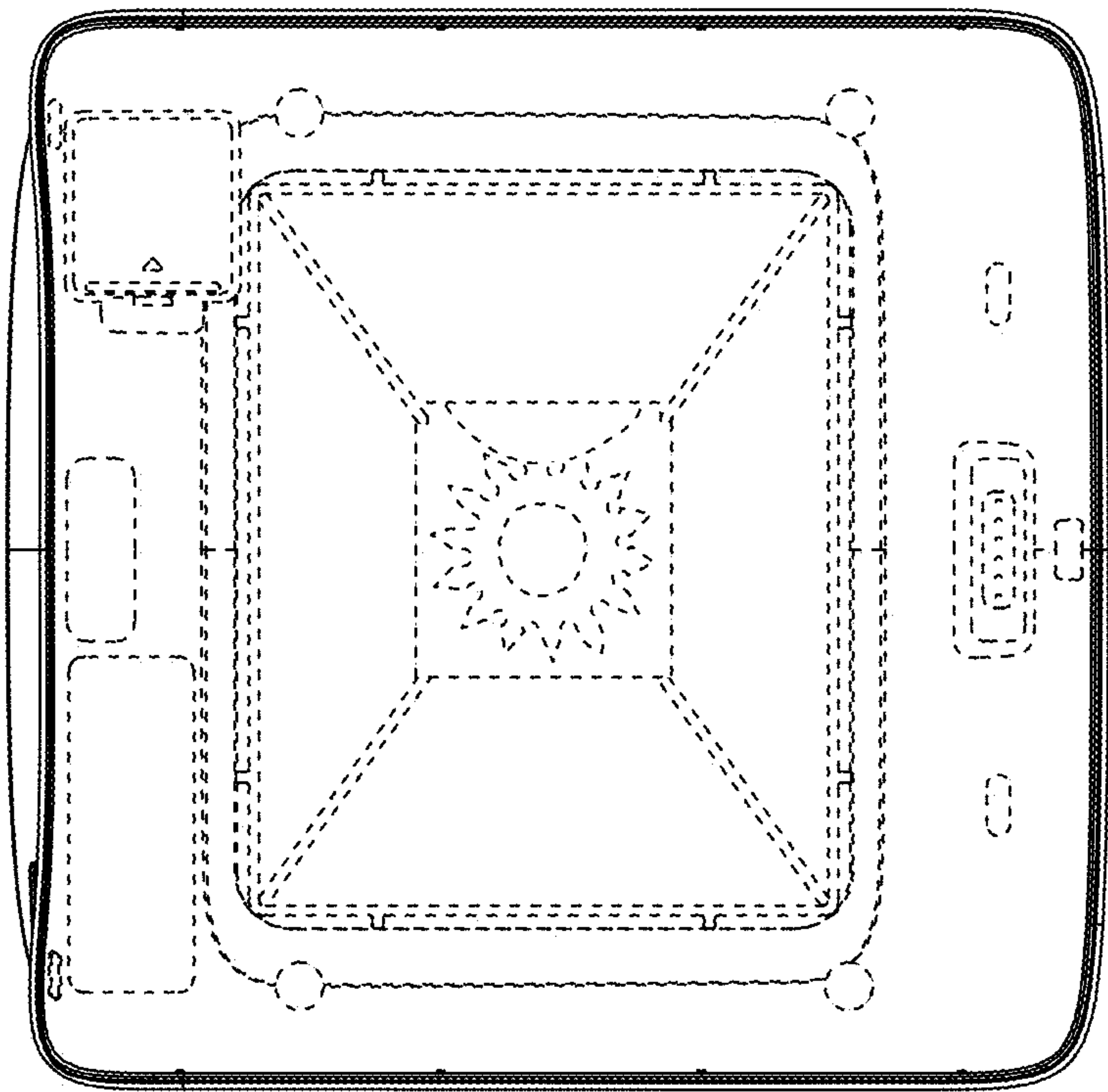


FIG. 10