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(12) United States Design Patent

Blair et al.

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(54) **SAMPLE HANDLING SYSTEM**

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(73) Assignee: **BIOMERIEUX, INC.**, Durham, NC (US)

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

(21) Appl. No.: **29/952,482**

(22) Filed: **Jul. 16, 2024**

Related U.S. Application Data

(62) Division of application No. 29/849,313, filed on Aug. 10, 2022, now Pat. No. Des. 1,057,199, which is a division of application No. 29/758,339, filed on Nov. 13, 2020, now Pat. No. Des. 992,750.

(51) **LOC (15) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/216**

(58) **Field of Classification Search**
USPC D24/107, 108, 130, 133, 186, 216, 231, D24/232; D10/81
CPC ... G01N 2035/00306; G01N 2030/027; G01N 21/76; G01N 2035/0029; G01N 35/0029
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,194,733 A	3/1993	Aalto
D515,707 S	2/2006	Shinohara et al.
7,157,729 B2	1/2007	Urbon
D685,495 S	7/2013	Oonuma et al.

(Continued)

FOREIGN PATENT DOCUMENTS

CN	304451277	1/2018
CN	306665045	9/2024

OTHER PUBLICATIONS

"Hamilton Health Sciences: Innovative bacteria identification system . . . " Found online Apr. 26, 2024 at hamiltonhealthsciences.ca. Reference dated Sep. 27, 2021. Retrieved from https://www.hamiltonhealthsciences.ca/share/prime/.*

(Continued)

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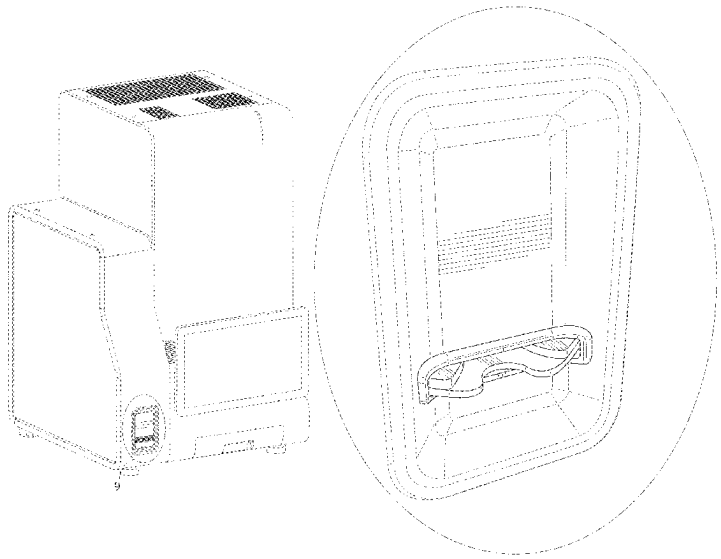
(57) **CLAIM**

The ornamental design for a sample handling system as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a sample handling system showing our new design;
FIG. **2** is another perspective view thereof;
FIG. **3** is a front elevation view thereof;
FIG. **4** is a rear elevation view thereof;
FIG. **5** is a left side elevation view thereof;
FIG. **6** is a right side elevation view thereof;
FIG. **7** is a top plan view thereof;
FIG. **8** is a bottom plan view thereof;
FIG. **9** is an enlarged perspective view of detail "**9**" identified in FIG. **1**;
FIG. **10** is an enlarged perspective view of detail "**10**" identified in FIG. **2**; and,
FIG. **11** is an enlarged perspective view of detail "**11**" identified in FIG. **3**.
The equal-length broken lines depict portions of the sample handling system that form no part of the claimed design.

1 Claim, 11 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D693,477	S		11/2013	Isozaki
D718,462	S		11/2014	Cook et al.
D782,690	S		3/2017	Kurihara
D809,143	S		1/2018	Long et al.
9,908,119	B2		3/2018	Dority
D825,773	S		8/2018	Wan
D864,410	S		10/2019	Ota
D878,625	S		3/2020	Sakai
D881,405	S		4/2020	Hussey et al.
D882,110	S		4/2020	Klein et al.
D883,510	S		5/2020	Neuman
10,665,444	B2		5/2020	Bullock et al.
D906,536	S		12/2020	Kozono
D914,905	S		3/2021	Wade
D927,723	S		8/2021	Nelsen
D932,047	S		9/2021	Hölbl
D937,433	S		11/2021	Sugie
D953,563	S		5/2022	Mataki et al.
D954,288	S		6/2022	Wade
D955,245	S		6/2022	Barton et al.
D956,261	S		6/2022	Segawa et al.
D957,666	S		7/2022	Nelsen
D962,464	S		8/2022	Kraus et al.
D963,499	S		9/2022	Blake et al.
D964,589	S		9/2022	Ui et al.
D965,171	S		9/2022	Ui et al.
D965,816	S		10/2022	Luther et al.
D976,436	S		1/2023	Modica et al.
D978,369	S		2/2023	Chang et al.
D978,370	S		2/2023	Gut et al.
D979,787	S		2/2023	Gruen et al.
D980,096	S		3/2023	Jiang et al.
D992,750	S		7/2023	Blair et al.
D1,011,941	S		1/2024	Blake et al.
D1,013,741	S	*	2/2024	Liang D15/80
D1,023,804	S		4/2024	Blake et al.
D1,029,288	S	*	5/2024	Chen D24/216
D1,035,036	S	*	7/2024	Saiz D24/232
D1,037,477	S	*	7/2024	Ono D24/216
D1,046,190	S	*	10/2024	Chen D24/216
D1,049,390	S	*	10/2024	Mazzone D24/185
2006/0160205	A1	*	7/2006	Blackburn B01L 7/52 435/303.1
2006/0292036	A1	*	12/2006	Gould B01L 3/5029 422/400
2008/0216590	A1	*	9/2008	Blanton G01N 35/00029 73/863.11
2016/0054316	A1		2/2016	Egan et al.
2017/0341873	A1		11/2017	Vivet et al.
2018/0119137	A1		5/2018	Matsuguchi et al.
2019/0252169	A1		8/2019	Bullock et al.
2020/0132703	A1		4/2020	Lev-Sagie et al.
2020/0400700	A1		12/2020	Wang et al.
2022/0137078	A1		5/2022	Singhal et al.
2022/0357350	A1		11/2022	Lev et al.
2022/0373571	A1		11/2022	Kim et al.
2023/0298849	A1		9/2023	Benda et al.

OTHER PUBLICATIONS

"Cgoldenwall: Visible Spectrophotometer 721." Found online Jan. 23, 2025 at amazon.com. Reference dated Nov. 6, 2019. Retrieved from https://www.amazon.com/CGOLDENWALL-Spectrophotometer-Spectrometer-Laboratory-Wavelength/dp/B0813TNBJQ.*

BioMerieux "Vitek MS expanded database," Product brochure, [retrieved from the Internet], <URL:https://www.biomerieux-diagnostics.com/vitekr-ms-0> date(unknown), 3 pages.

BioMerieux "Vitek® MS, Mass spectrometry microbial identification system," [retrieved from the Internet], <URL:https://www.biomerieux-diagnostics.com/vitekr-ms-0>,date(unknown), 6 pages.

Bloomberg "Abbott Launches 5-Minute Virus Test for Use Almost Anywhere," dated Mar. 27, 2020, 1 pg. [Retrieved from the Internet on Mar. 27, 2020: <URL: http://www.bloomberg.com/news/articles/2020-03-27/abbott-launches-5-minute-covid-15-test-for-use-almost-anywhere#xj4y7vzkg>].

Facebook "Diamond Diagnostics," dated Jul. 30, 2020, 1 pg. [Retrieved from the Internet on Apr. 26, 2024: <URL: http://www.facebook.com/SmartLabSolutions/photos/a.1448316128801005/1963806423918637/?type=3>].

Hamilton Health Sciences "bioMerieux Vitek MS," dated Sep. 27, 2021, 1 pg. [Retrieved from the Internet on Apr. 26, 2024: <URL: http://www.youtube.com/watch?app=desktop&v=x6-J2XZQVLA>].

Seamaty "Semi-automatic biochemistry machine," dated Oct. 11, 2022, 1 pg. [Retrieved from the Internet on Mar. 28, 2024: <URL: http://en.seamaty.com/index.php?s=sys/533.html>].

* cited by examiner

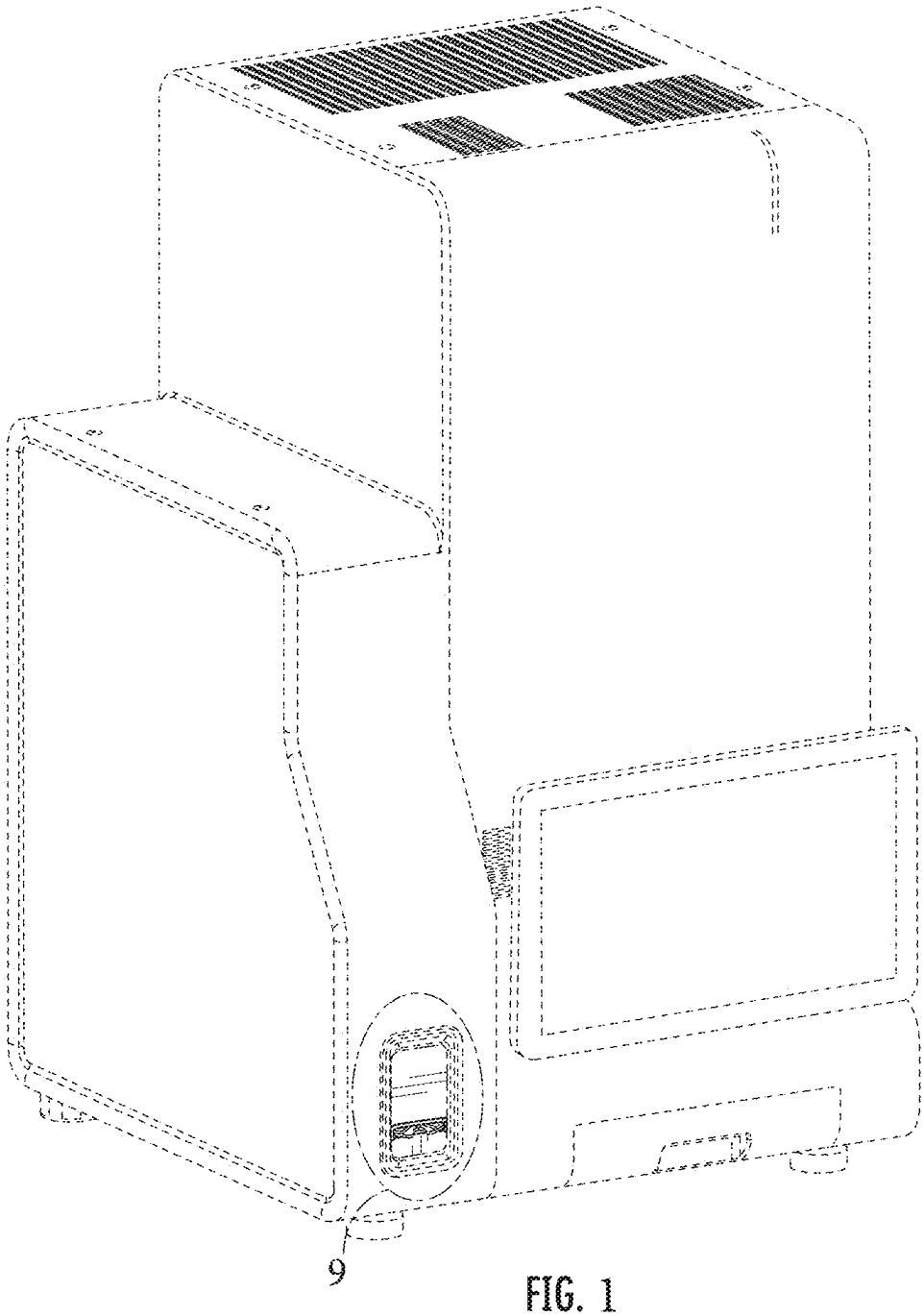


FIG. 1

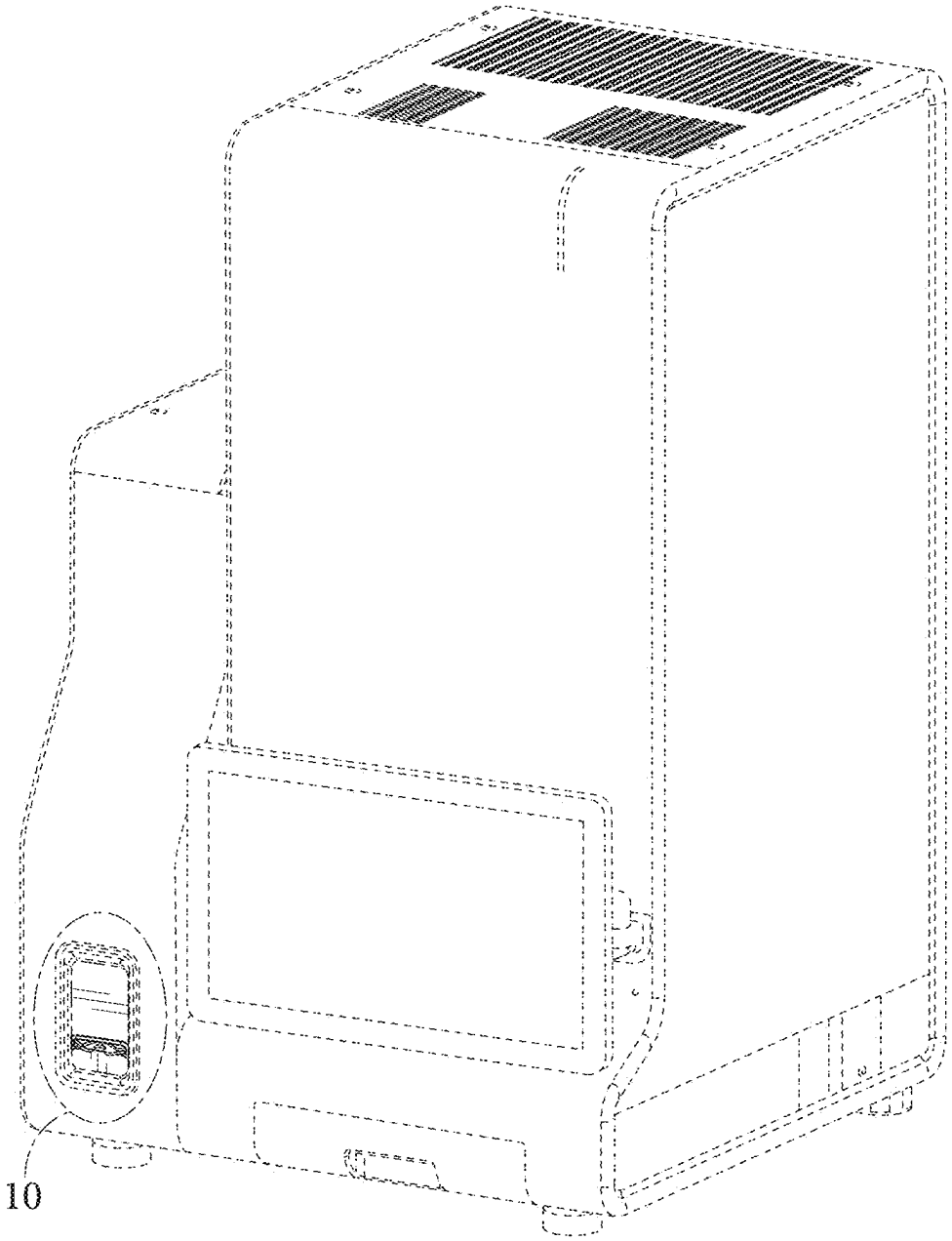


FIG. 2

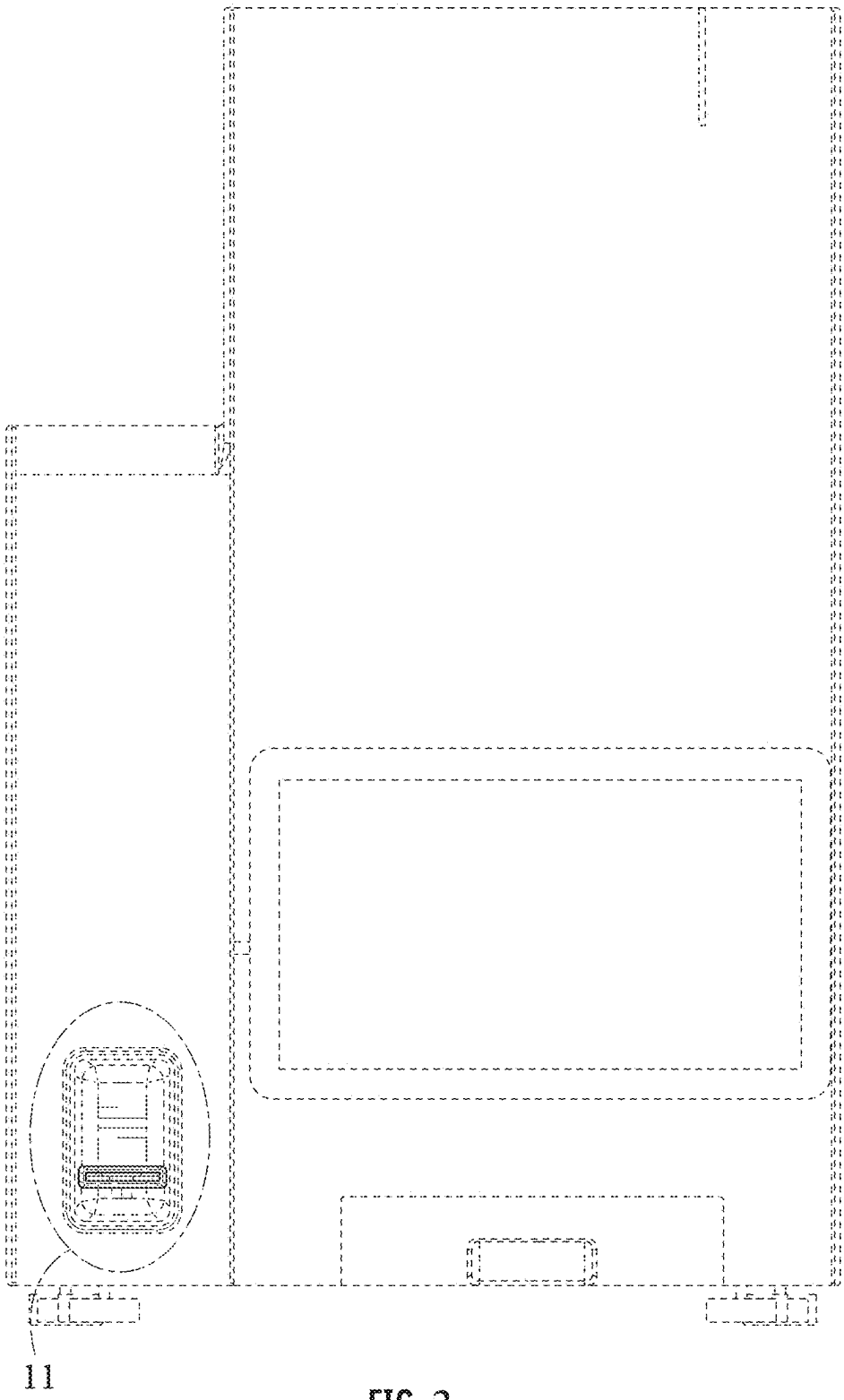


FIG. 3

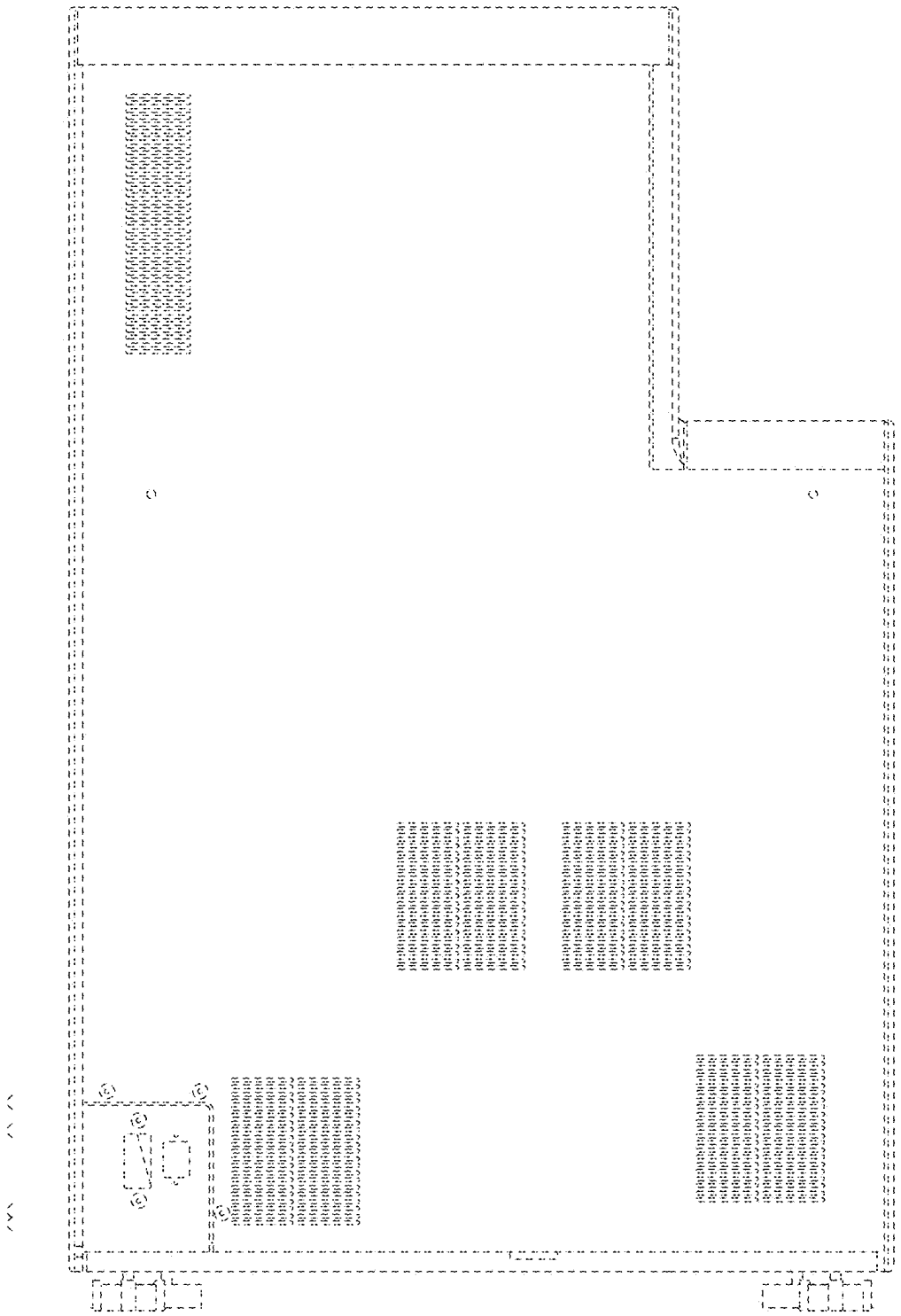


FIG. 4

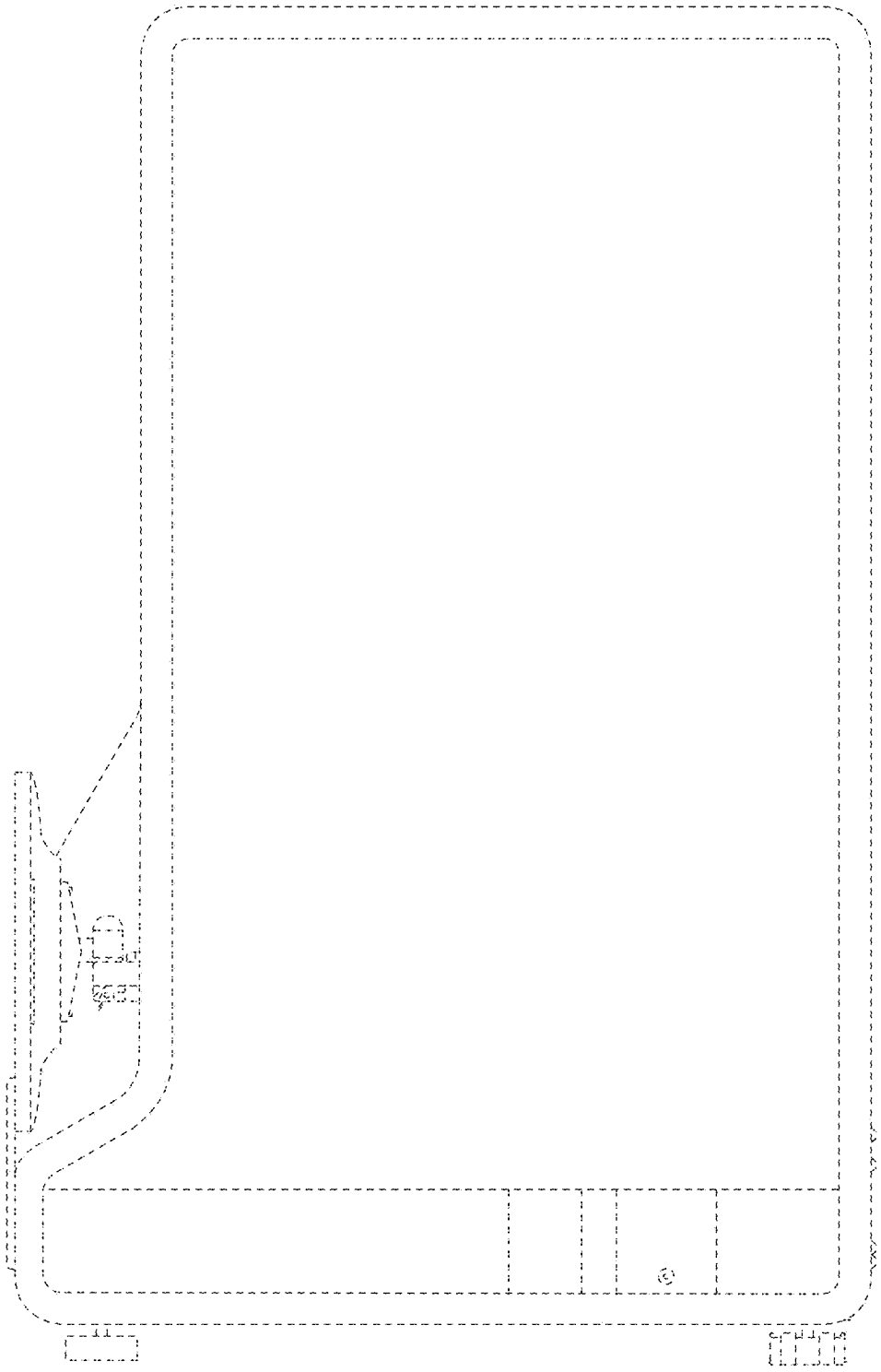


FIG. 5

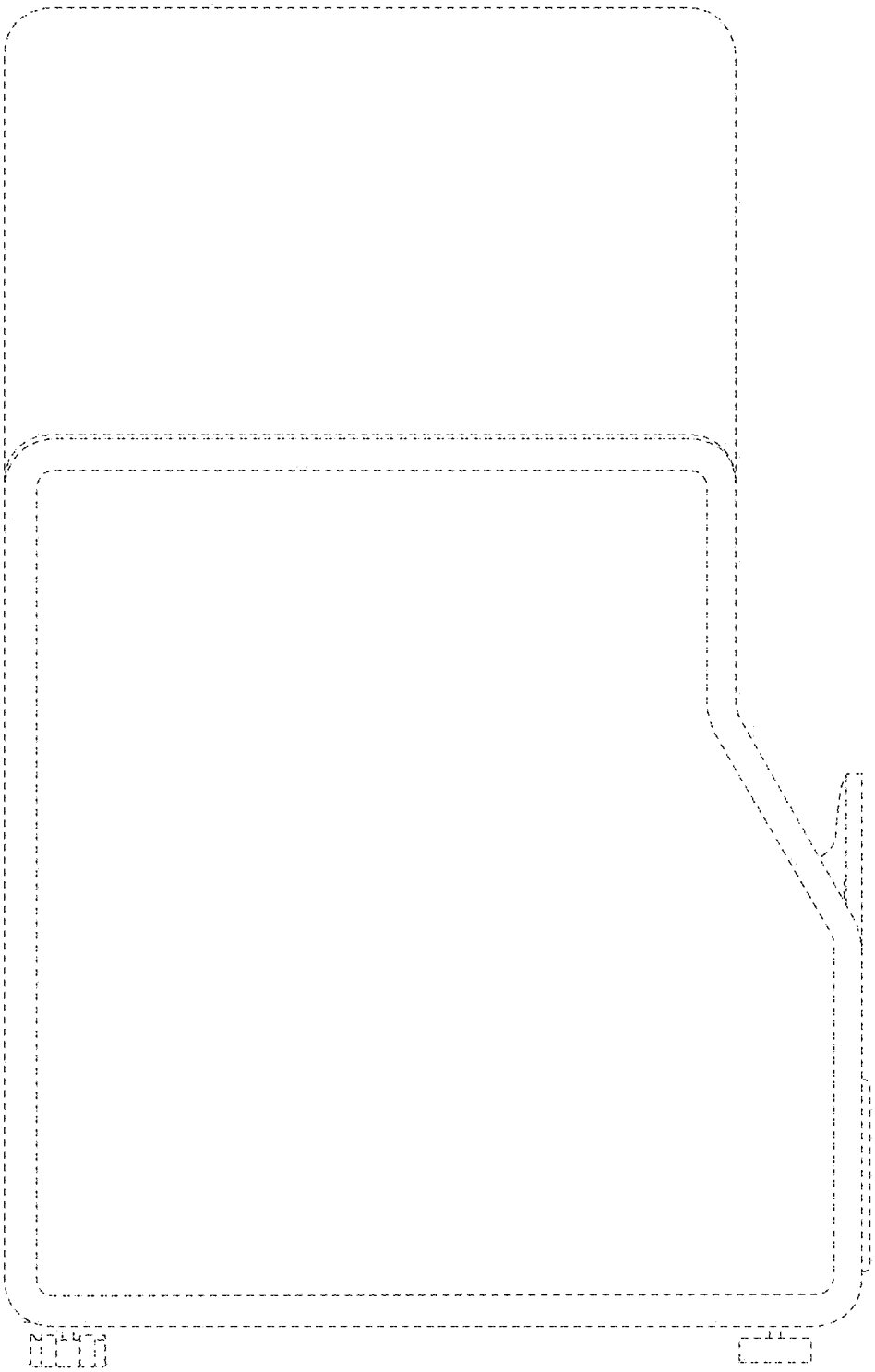


FIG. 6

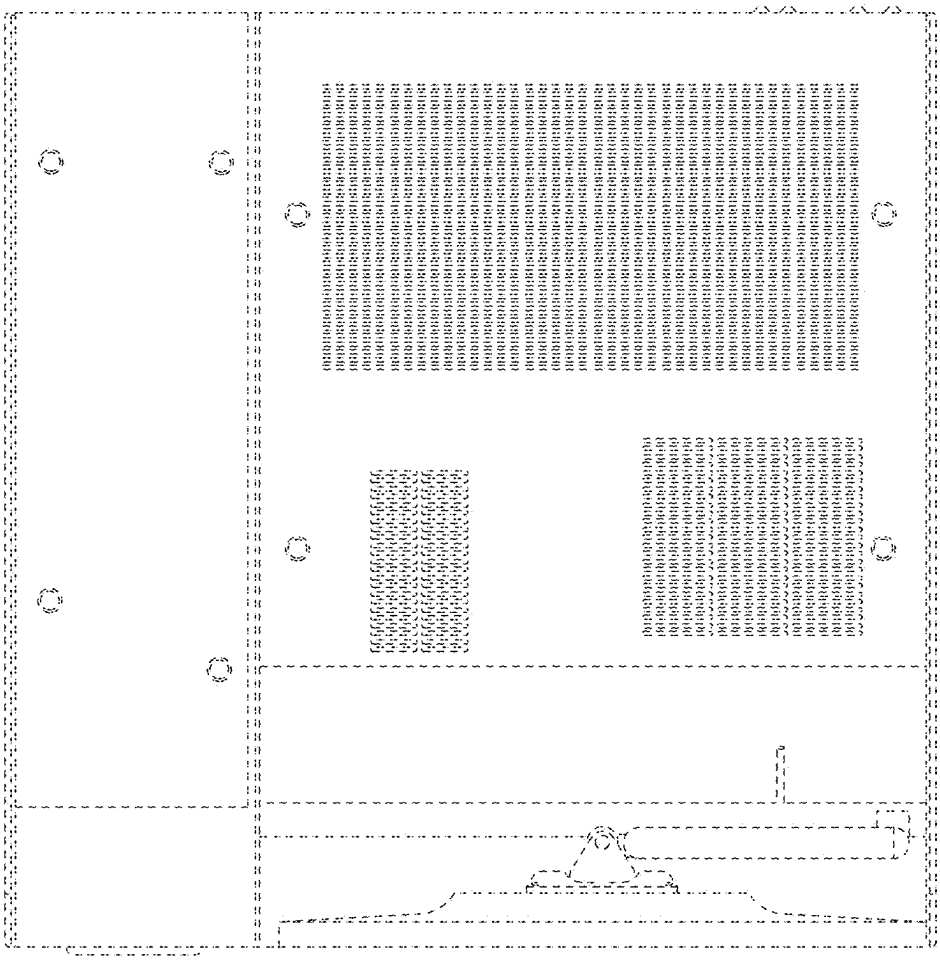


FIG. 7

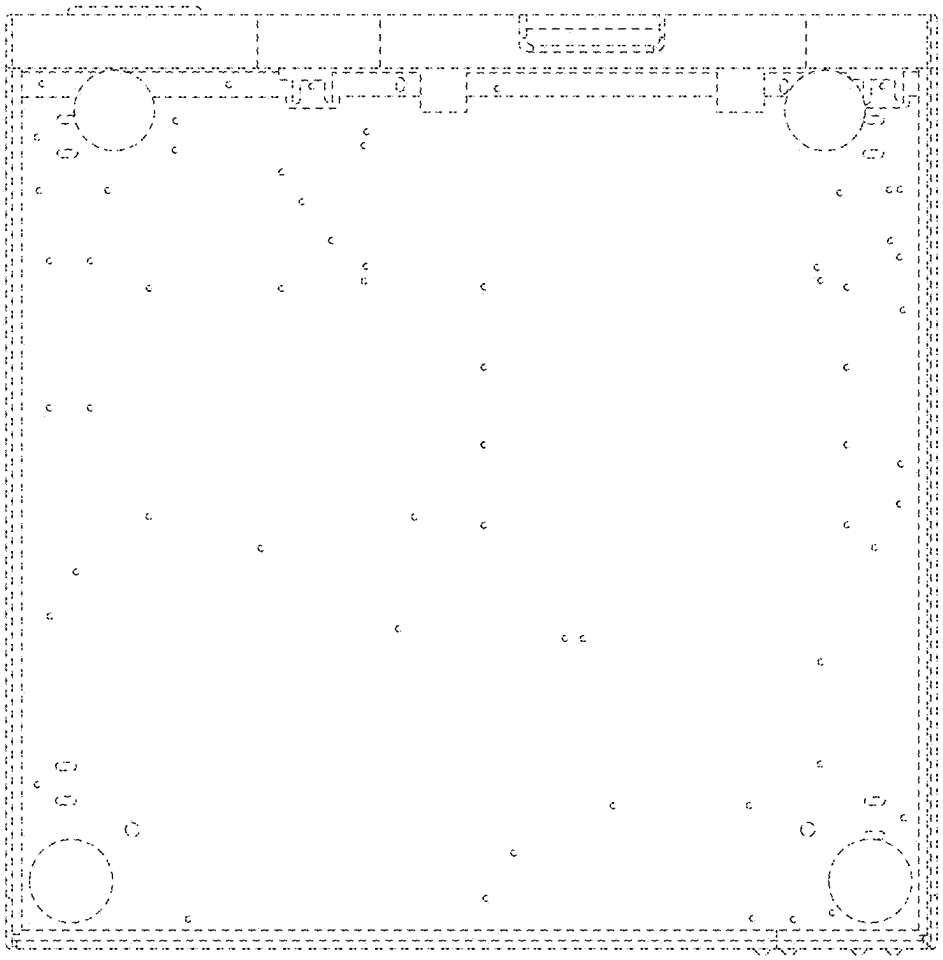


FIG. 8

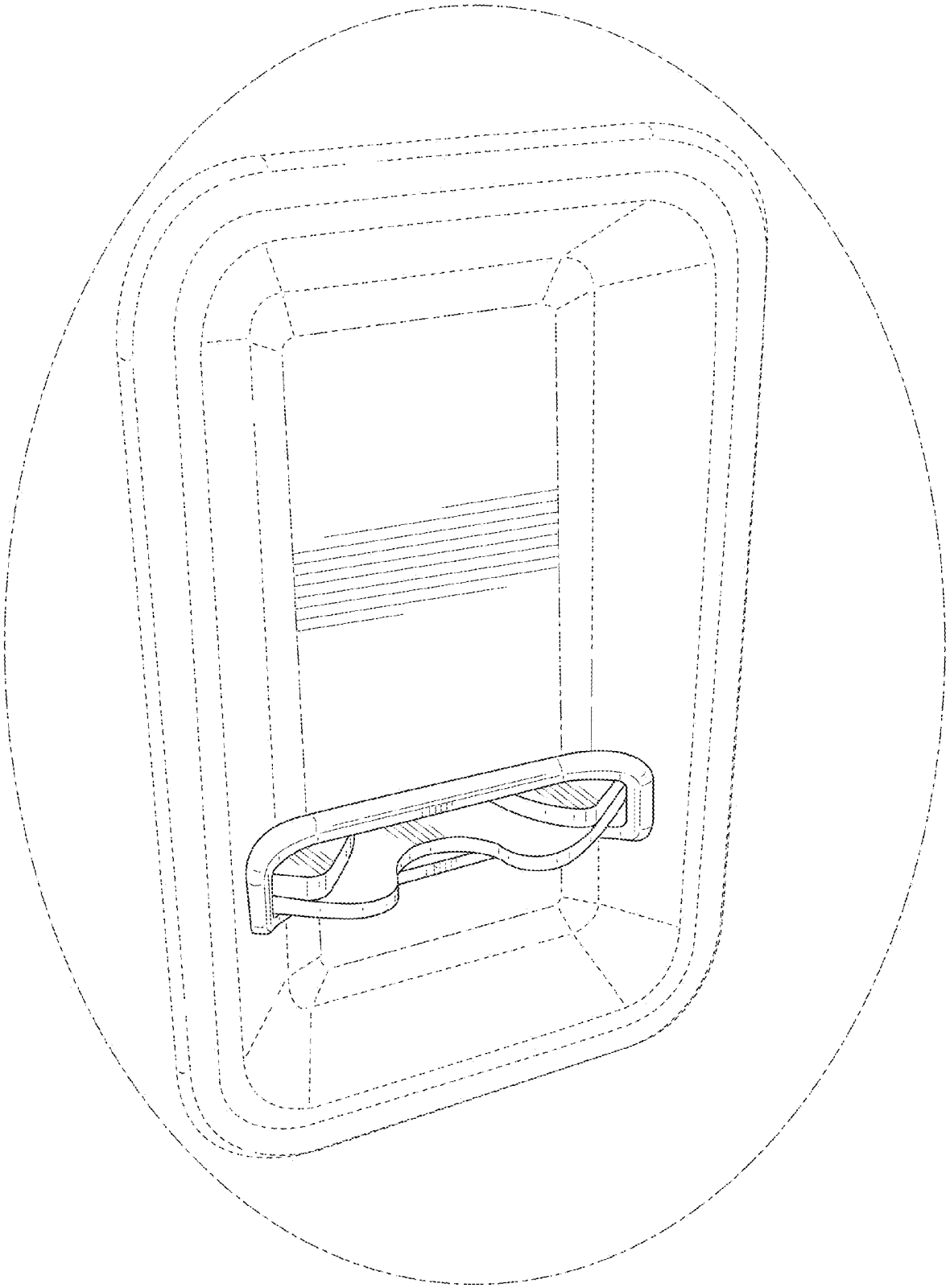


FIG. 9

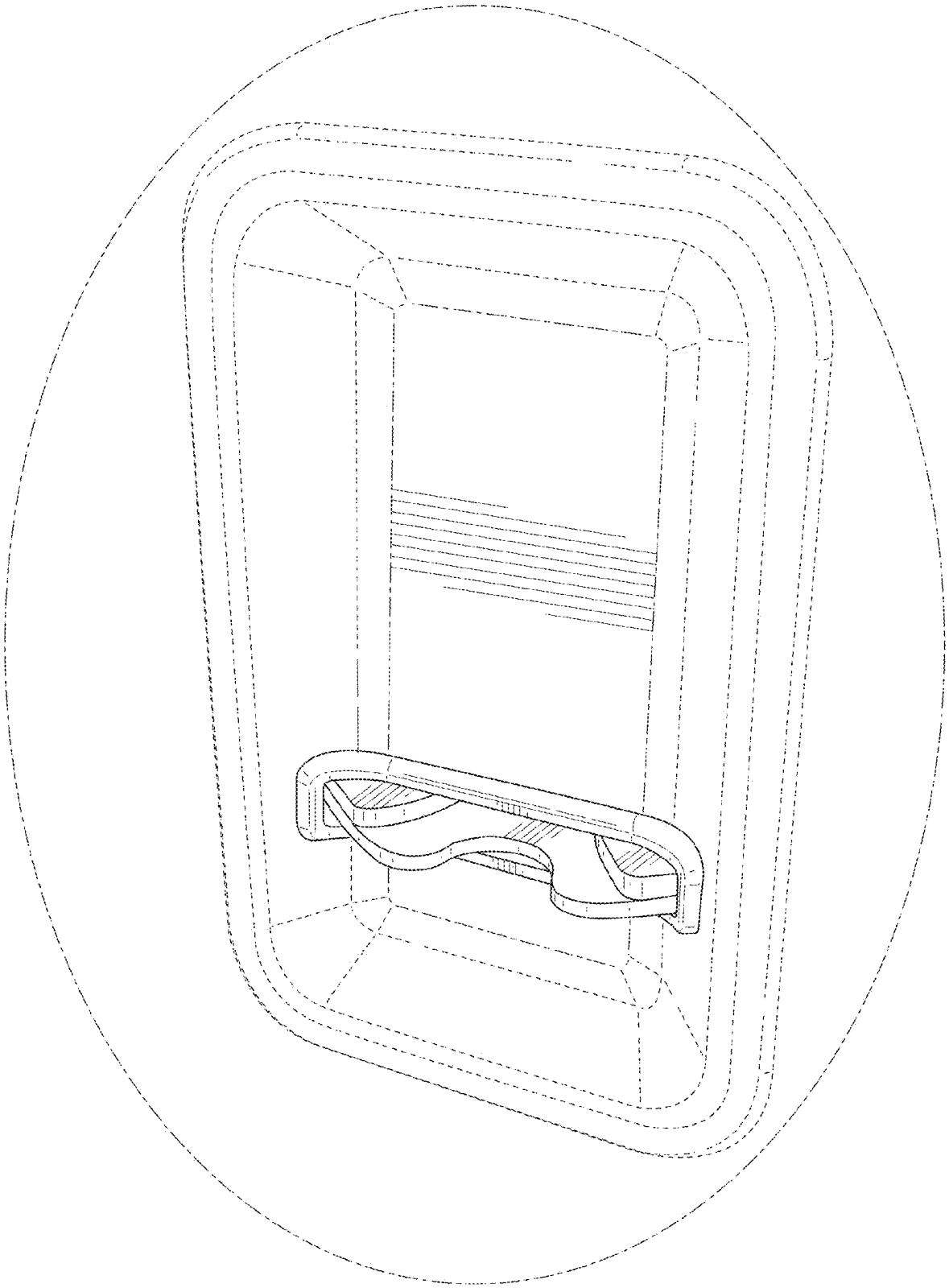


FIG. 10

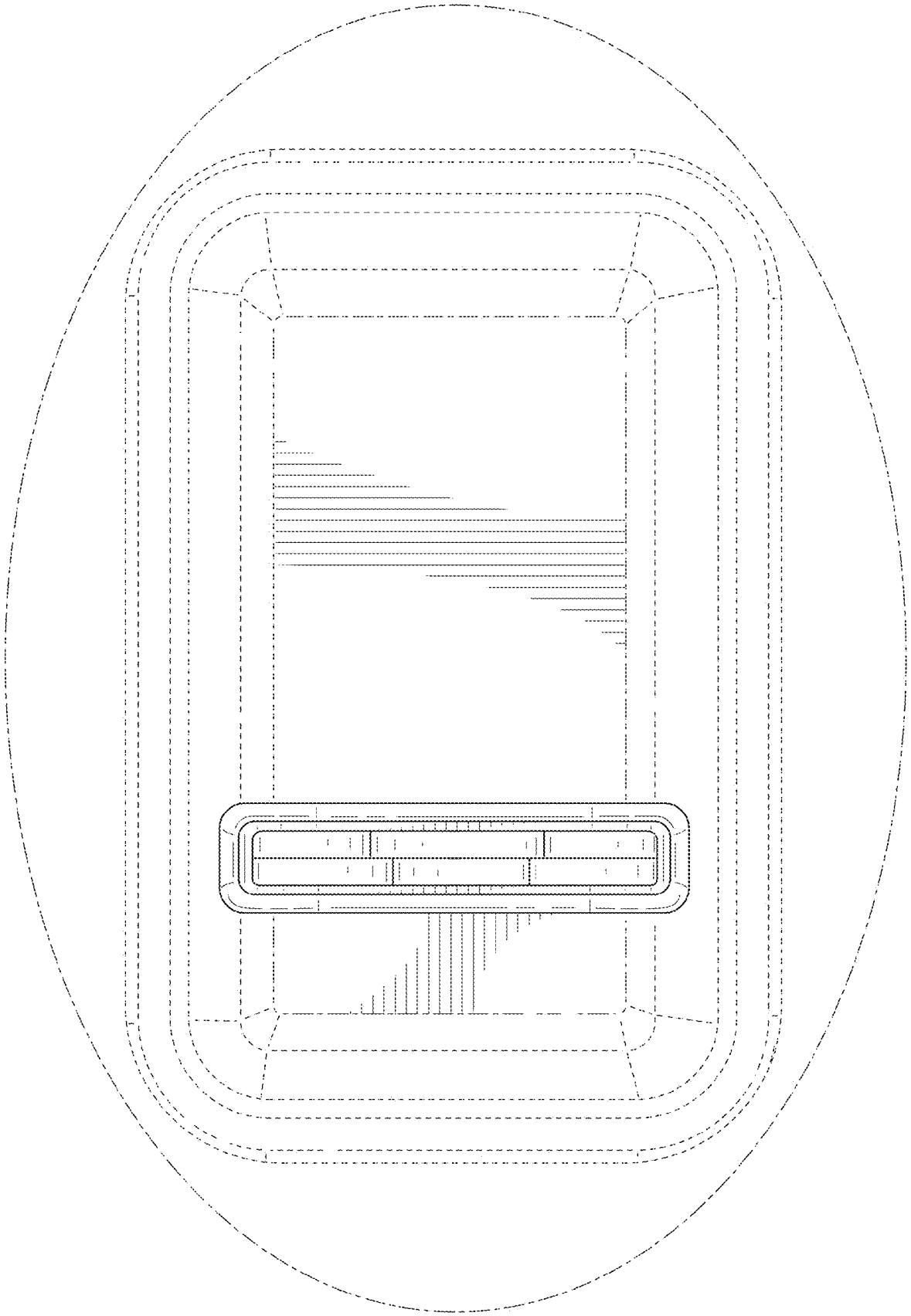


FIG. 11