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(12) United States Design Patent

Long et al.

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(54) **CHARGING PILE**

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(73) Assignee: **Shenzhen Infy Power Co., Ltd.**, Guangdong (CN)

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

(21) Appl. No.: **29/720,310**

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(51) **LOC (13) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/107**

(58) **Field of Classification Search**
USPC D13/103, 106, 107, 108, 109, 110, 112, D13/116, 118, 119, 184, 199; D14/432, D14/433, 434; D15/9.1, 9.2
CPC H02J 7/0027; F02N 11/12; H05K 5/00; H02G 3/10
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D674,335	S *	1/2013	Yamashita	D13/107
D676,376	S *	2/2013	Yamada	D13/107
D709,827	S *	7/2014	Kang	D13/107
D771,563	S *	11/2016	Dolle	D13/107
D778,818	S *	2/2017	Bruining	D13/107
D848,365	S *	5/2019	Yang	D13/107
D907,574	S *	1/2021	Yang	D13/107
D909,293	S *	2/2021	Chuang	D13/107
D914,593	S *	3/2021	Frerichs	D13/110
D916,010	S *	4/2021	Gerber	D13/107
2011/0174875	A1 *	7/2011	Wurzer	B60L 53/14 235/380
2013/0187599	A1 *	7/2013	Ranga	B60L 53/31 320/109

(Continued)

FOREIGN PATENT DOCUMENTS

JP 2018019509 A * 2/2018

OTHER PUBLICATIONS

"ABB bus chargers". Found online May 19, 2021 at new.abb.com. Reference dated Apr. 3, 2019. Retrieved from https://new.abb.com/news/detail/18710/fleet-of-abb-bus-chargers-will-power-hamburgs-drive-into-the-e-mobility-future. (Year: 2019).*

(Continued)

Primary Examiner — Kendra Leslie Hamilton
Assistant Examiner — Amanda Christensen

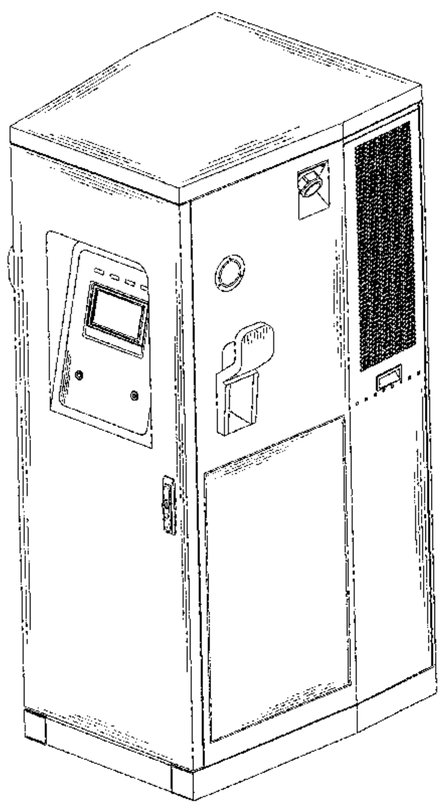
(57) **CLAIM**

The ornamental design for a charging pile, as shown and described.

DESCRIPTION

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

1 Claim, 10 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

2014/0266017 A1* 9/2014 Hamada H02J 5/00
320/107

OTHER PUBLICATIONS

"Electric Vehicle Charging Station". Found online May 19, 2021 at imgbin.com. Reference dated Mar. 26, 2018. Retrieved from https://imgbin.com/png/tezJaq4U/electric-vehicle-electric-car-charging-station-png. (Year: 2018).*
"Ultra Fast DC Chargers for EV". Found online May 19, 2021 at indiamart.com. Reference dated Dec. 29, 2013. Retrieved from https://tineye.com/search/bd1e7ab1da9199a5c0883928d902054827a12c7e?sort=score&order=desc&page=1. (Year: 2013).*

* cited by examiner

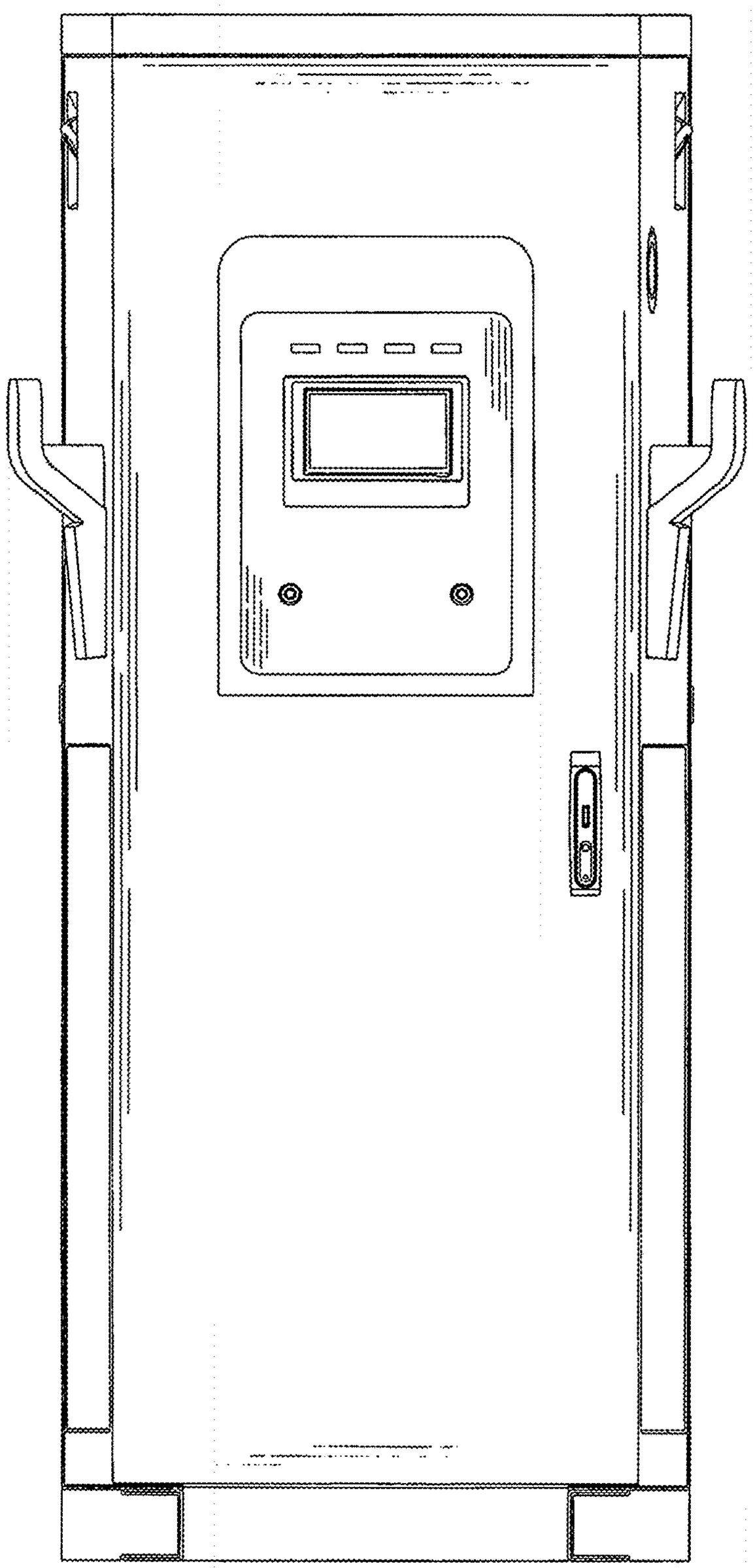


FIG. 1

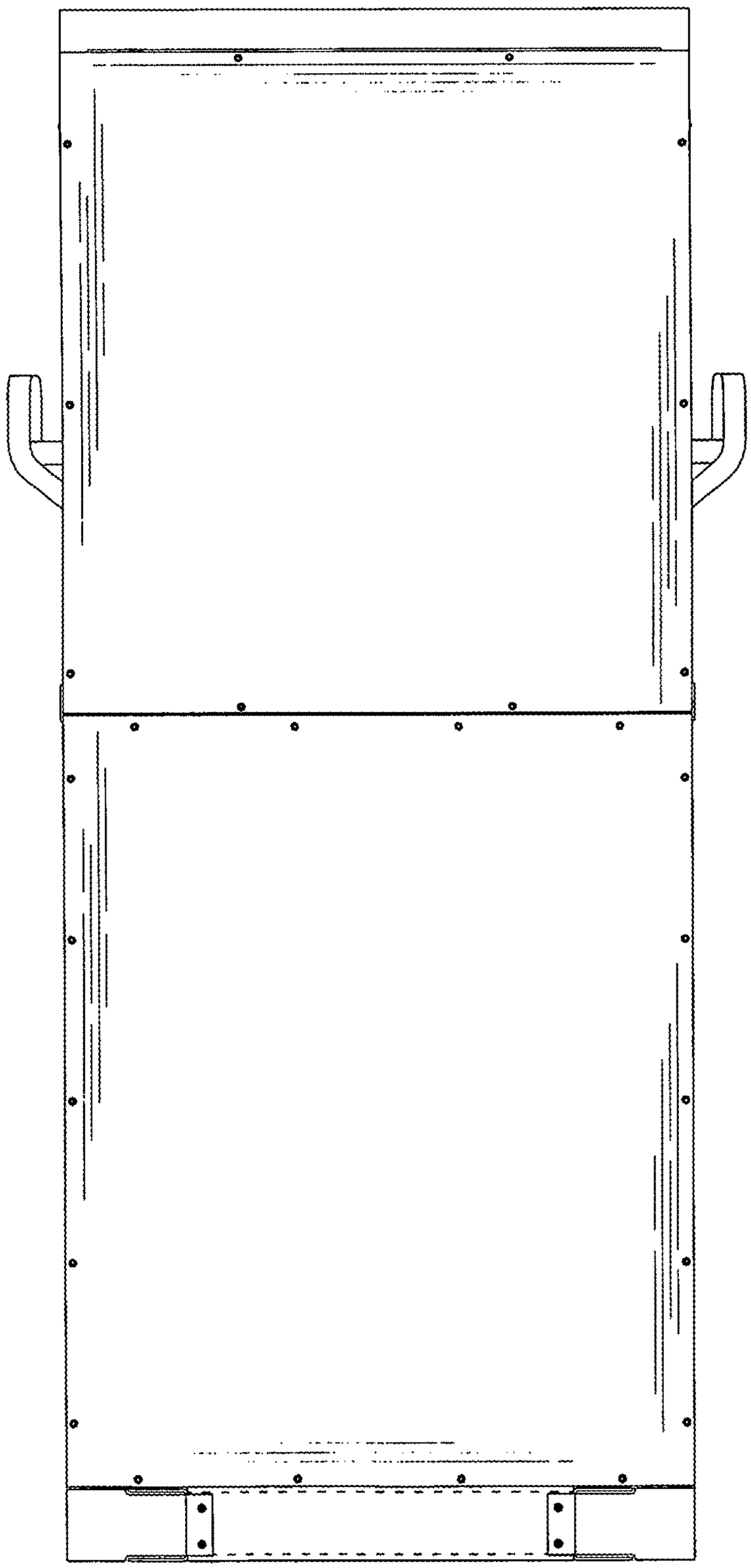


FIG. 2

FIG9 ~

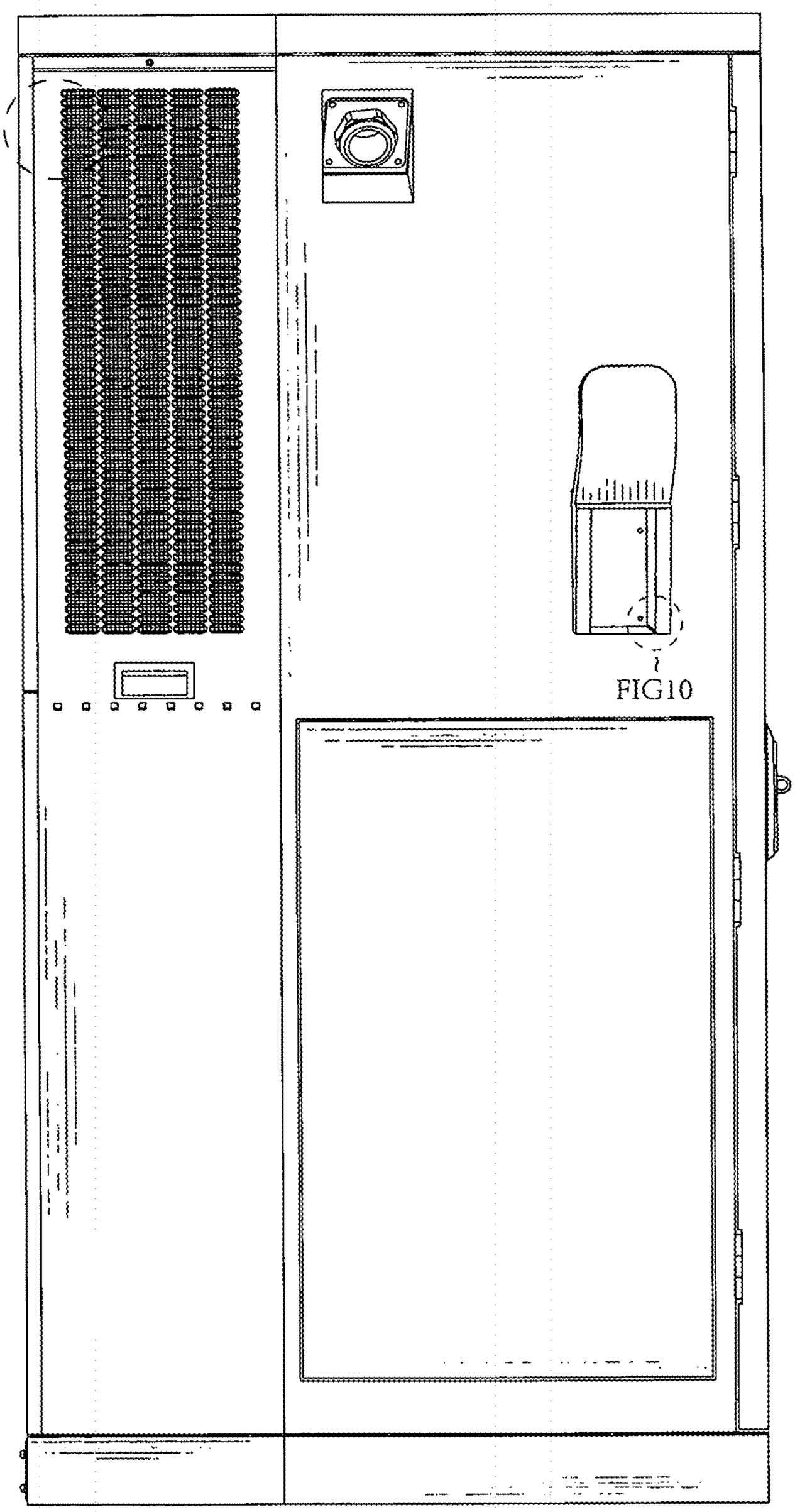


FIG10

FIG. 3

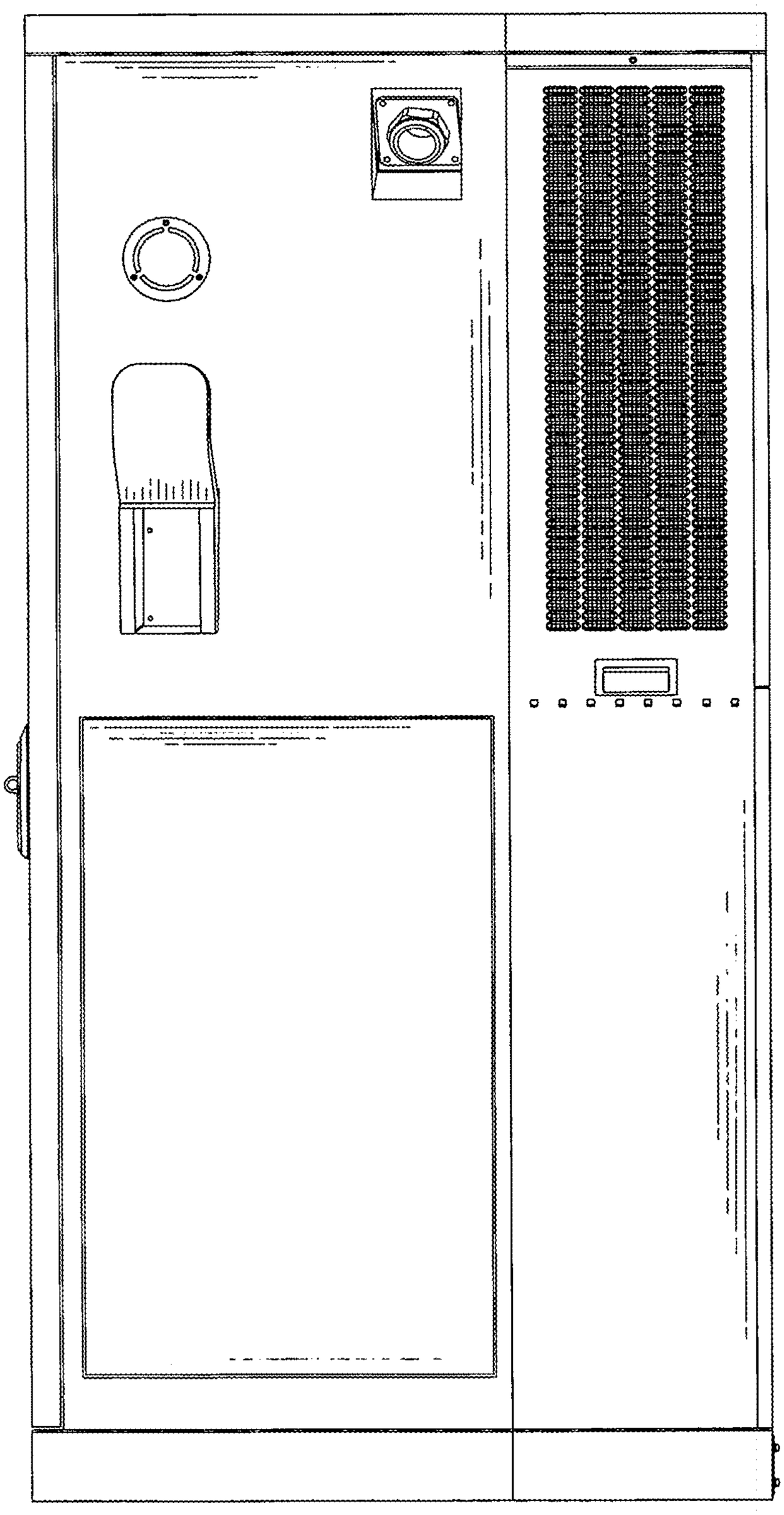


FIG. 4

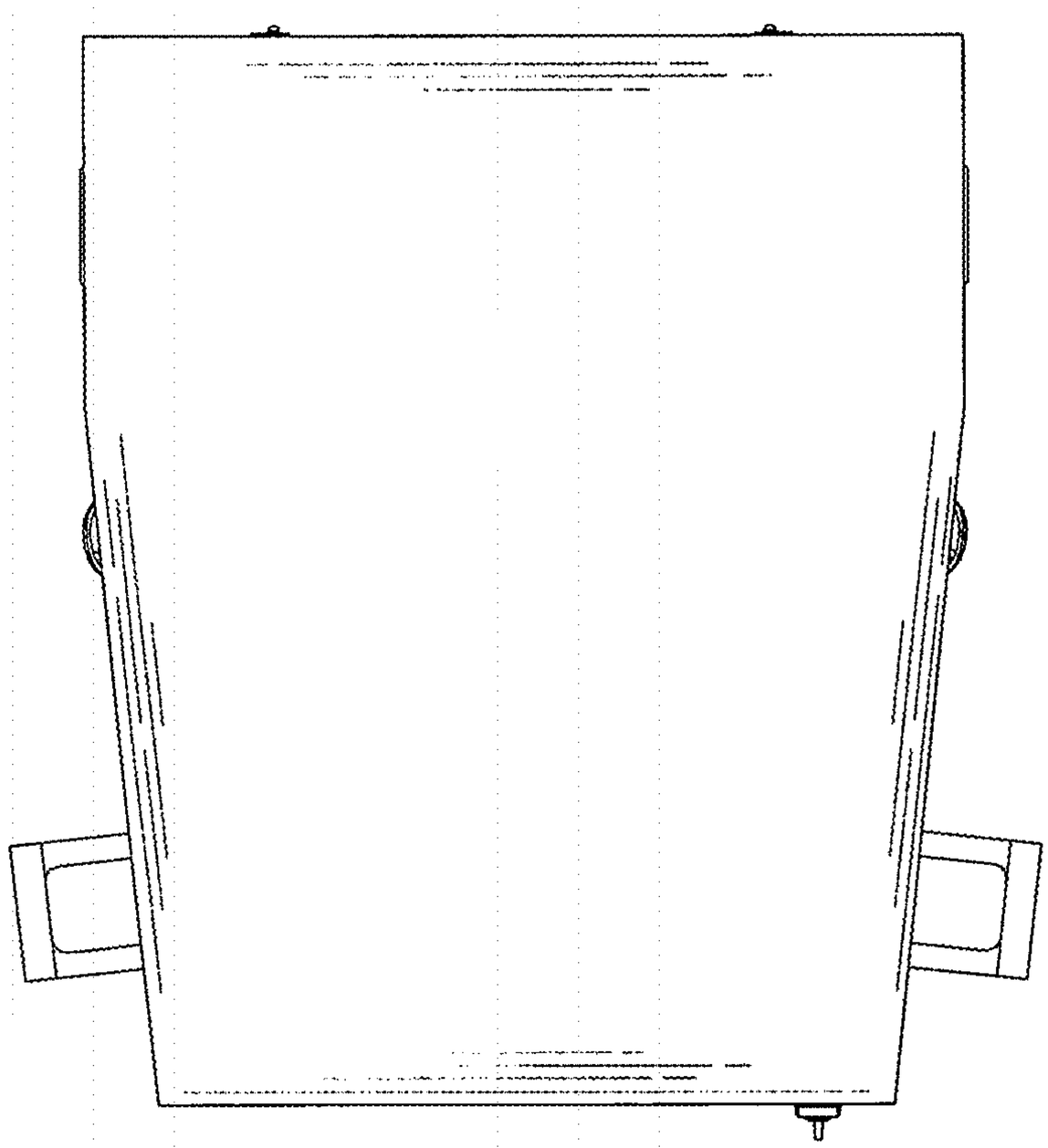


FIG. 5

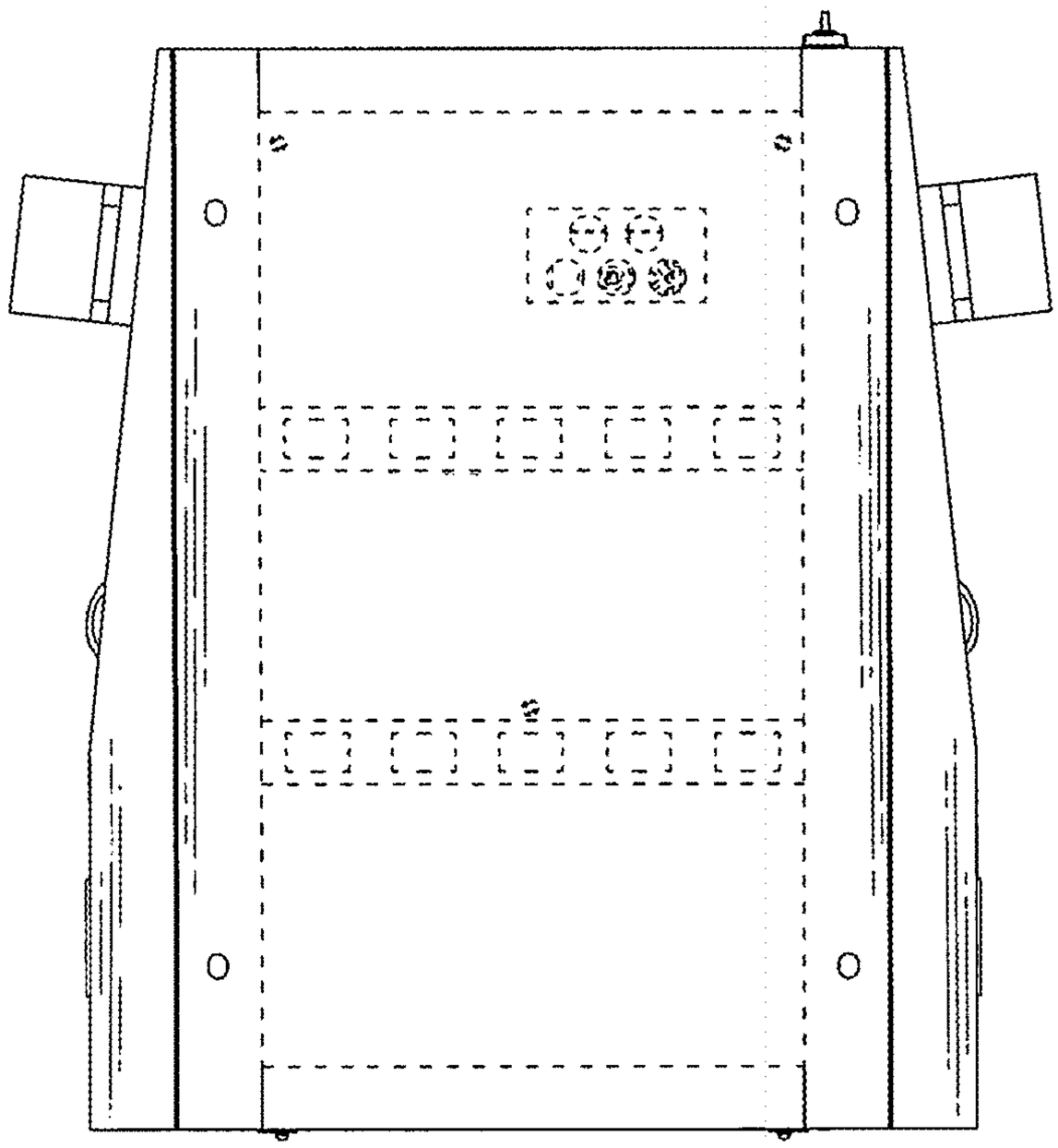


FIG. 6

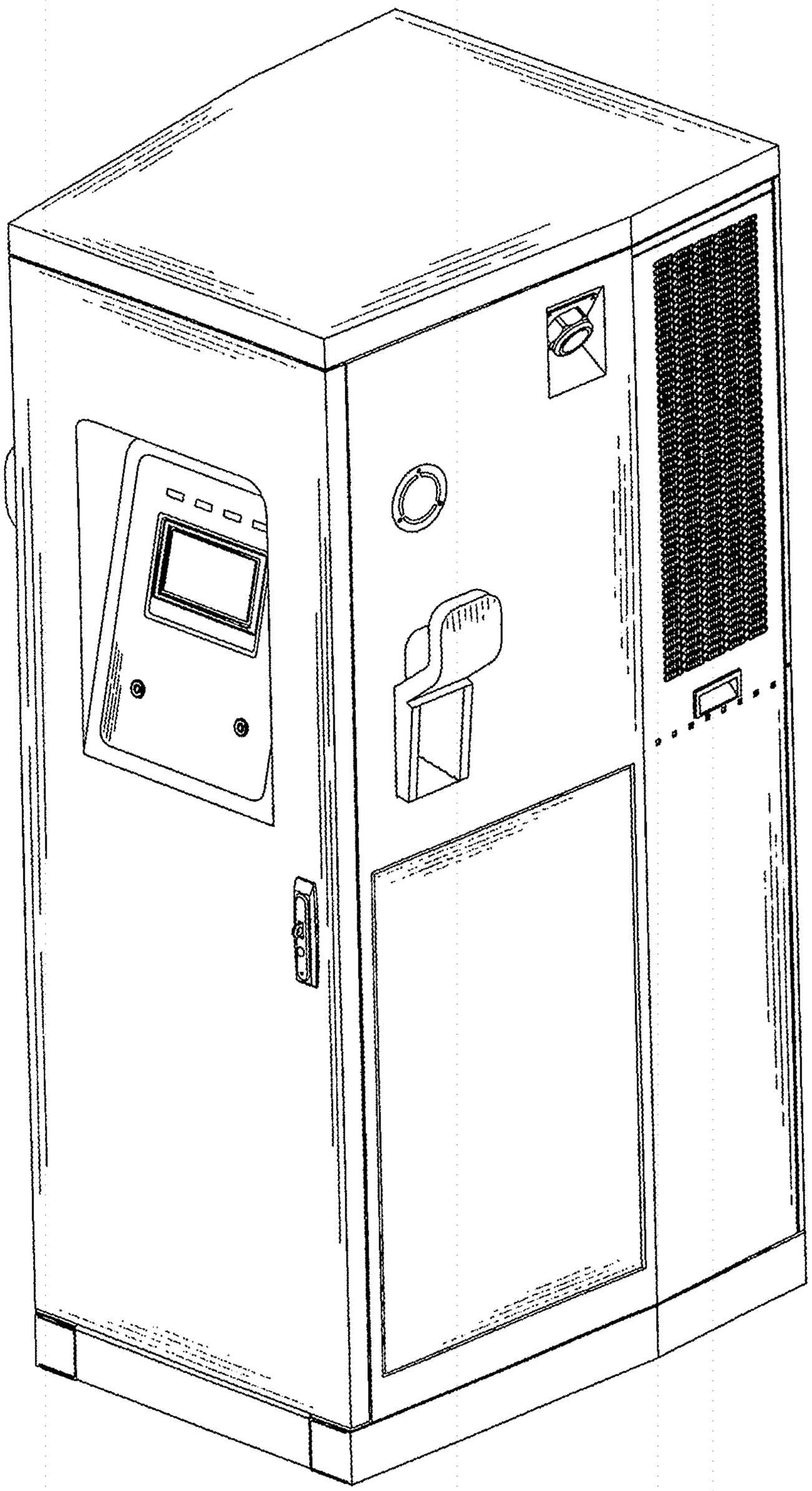


FIG. 7

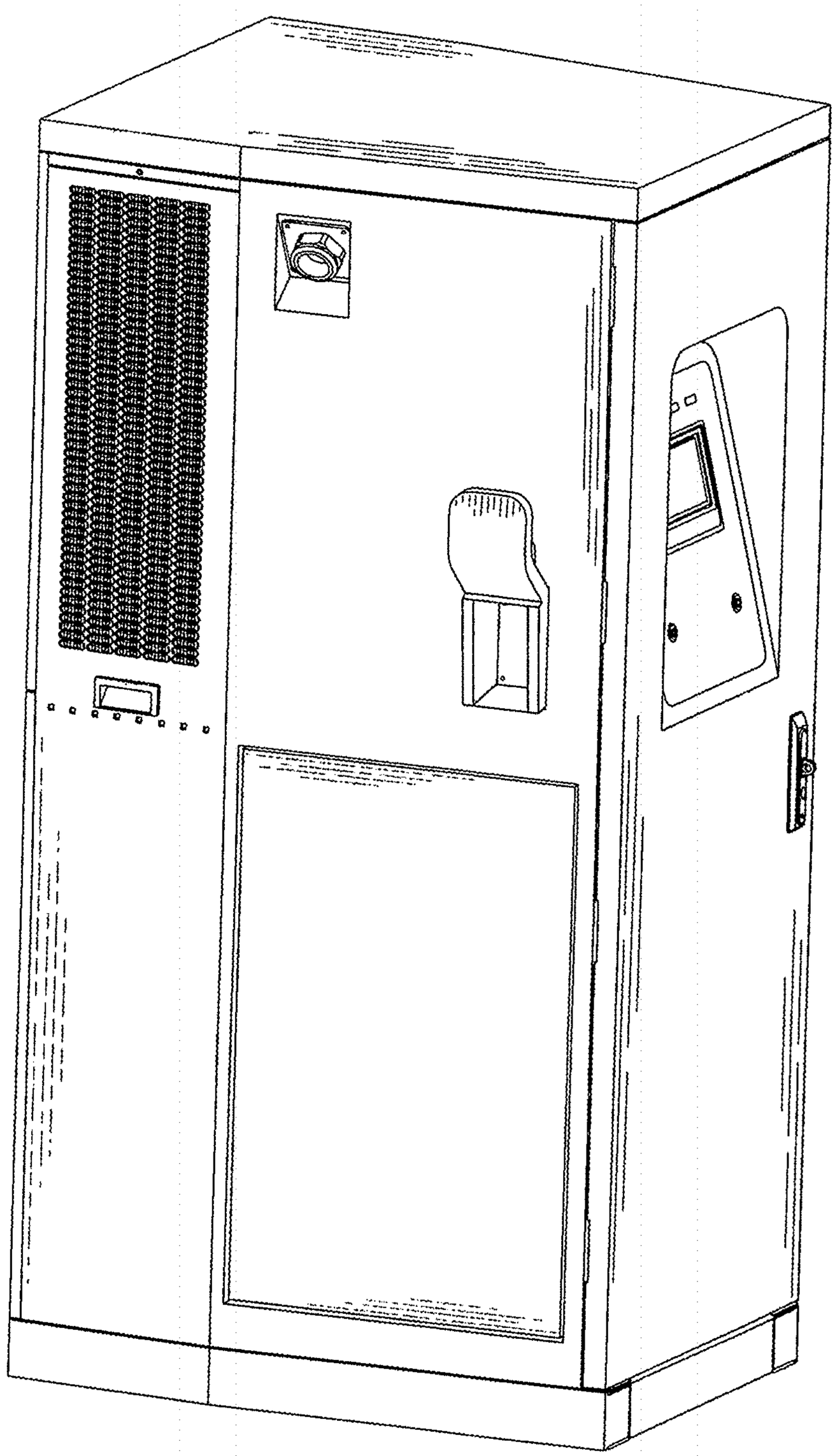


FIG. 8

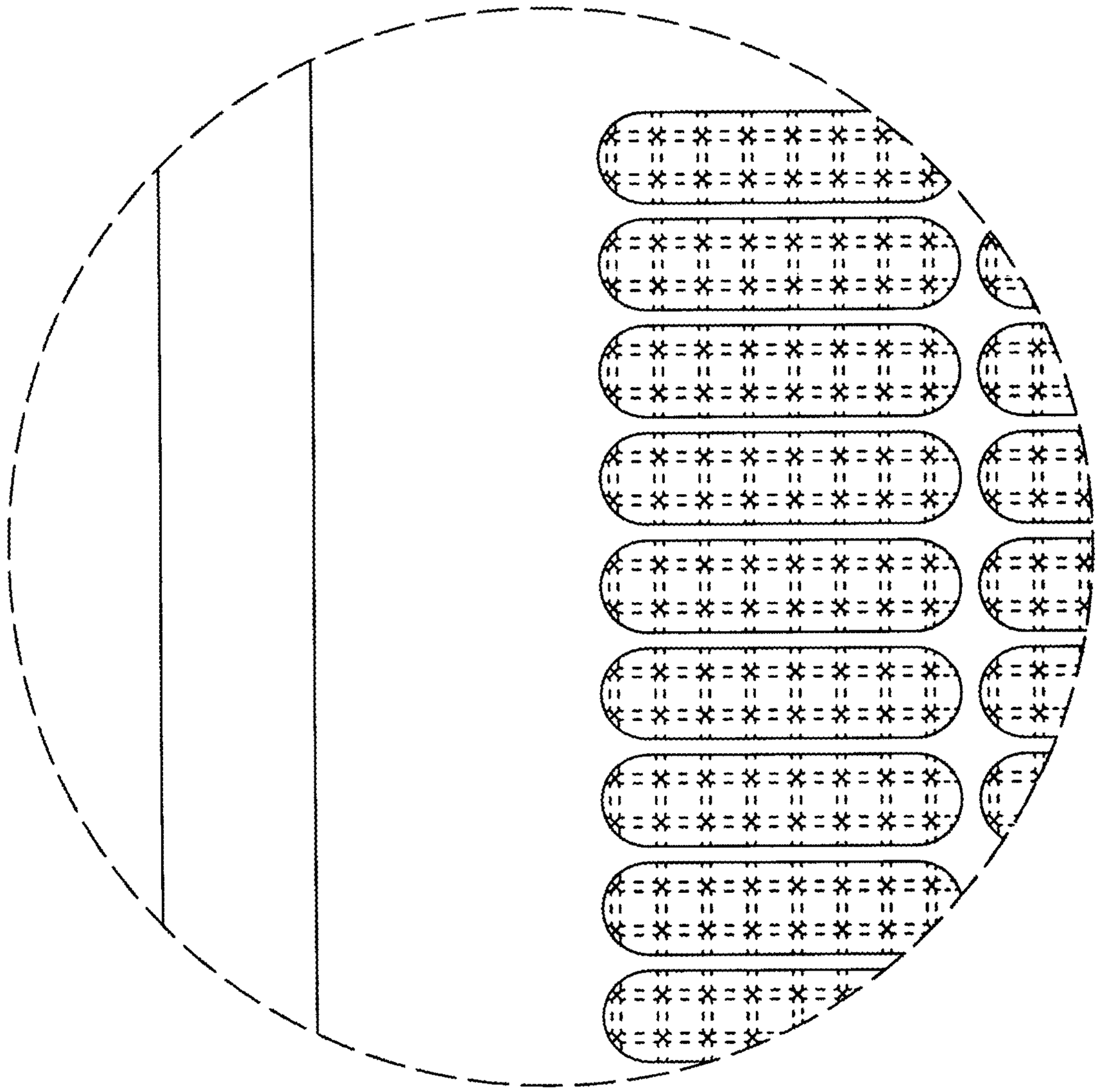


FIG. 9

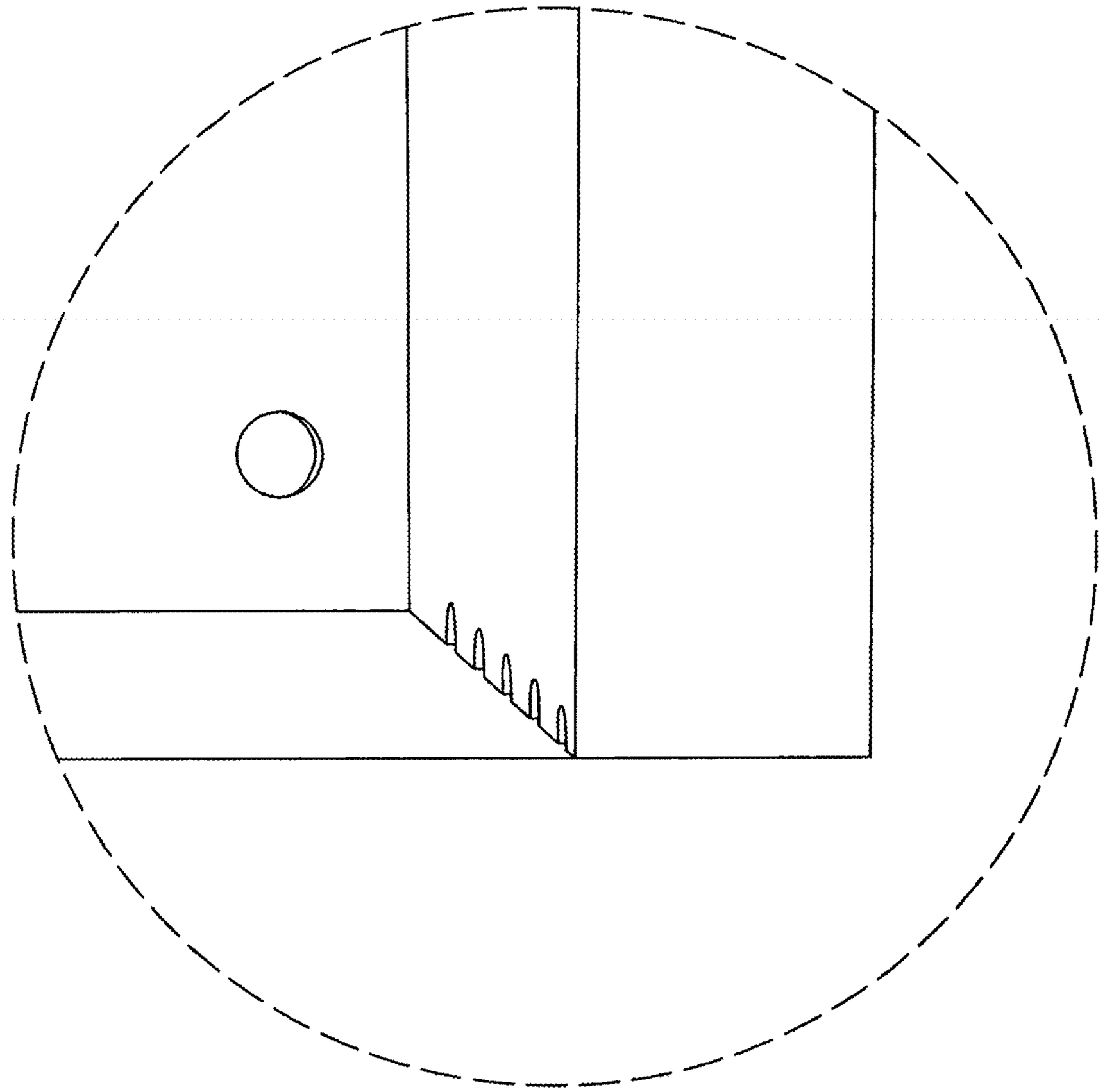


FIG. 10