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(12) United States Design Patent

Huang

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(54) **ELECTRICAL BUS BAR ASSEMBLY**

(71) Applicant: **DELTA ELECTRONICS, INC.**, Taoyuan (TW)

(72) Inventor: **Yu-Hung Huang**, Taoyuan (TW)

(73) Assignee: **DELTA ELECTRONICS, INC.**, Taoyuan (TW)

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

(21) Appl. No.: **29/627,945**

(22) Filed: **Nov. 30, 2017**

(51) **LOC (12) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/147**; D13/154

(58) **Field of Classification Search**
USPC D13/146–149, 152, 154, 153
(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,375,411 A * 3/1968 Mrowka H02B 1/056 361/637
3,769,553 A * 10/1973 Coley H02B 1/056 361/634

(Continued)

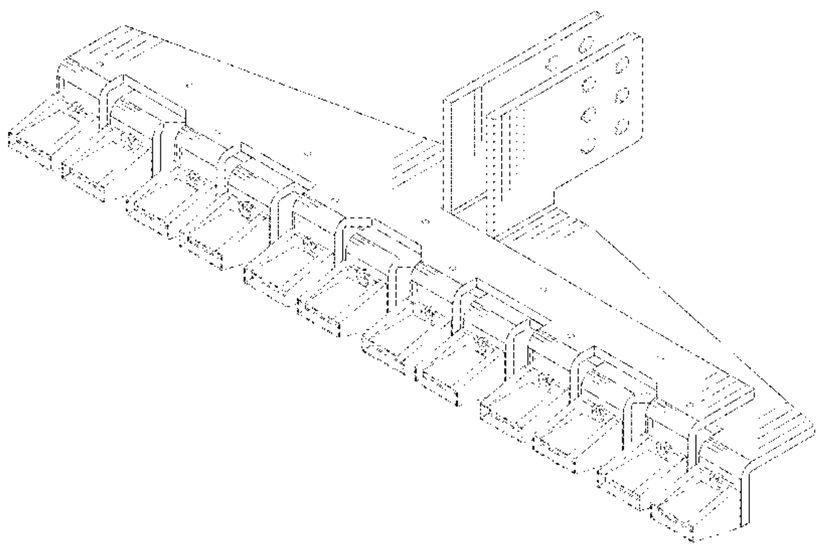
OTHER PUBLICATIONS

Low Voltage Electricity Transfer Copper Busbar Grade C10100, C11000, C12200 from vekontech.com, visited Sep. 6, 2019. (Year: 2019).*

Primary Examiner — Clare E Heflin
(74) *Attorney, Agent, or Firm* — Kirton McConkie; Evan R. Witt

(57) **CLAIM**

The ornamental design for an electrical bus bar assembly, as shown and described.



DESCRIPTION

FIG. **1** is a perspective view of a first embodiment of an electrical bus bar assembly showing my new design;
FIG. **2** is another perspective view thereof;
FIG. **3** is a front elevational view thereof;
FIG. **4** is a rear elevational view thereof;
FIG. **5** is a left side elevational view thereof;
FIG. **6** is a right side elevational view thereof;
FIG. **7** is a top plan view thereof;
FIG. **8** is a bottom plan view thereof;
FIG. **9** is a perspective view of a second embodiment of an electrical bus bar assembly showing my new design;
FIG. **10** is another perspective view thereof;
FIG. **11** is a front elevational view thereof;
FIG. **12** is a rear elevational view thereof;
FIG. **13** is a left side elevational view thereof;
FIG. **14** is a right side elevational view thereof;
FIG. **15** is a top plan view thereof;
FIG. **16** is a bottom plan view thereof;
FIG. **17** is a perspective view of a third embodiment of an electrical bus bar assembly showing my new design;
FIG. **18** is another perspective view thereof;
FIG. **19** is a front elevational view thereof;
FIG. **20** is a rear elevational view thereof;
FIG. **21** is a left side elevational view thereof;
FIG. **22** is a right side elevational view thereof;
FIG. **23** is a top plan view thereof;
FIG. **24** is a bottom plan view thereof;
FIG. **25** is a perspective view of a fourth embodiment of an electrical bus bar assembly showing my new design;
FIG. **26** is another perspective view thereof;
FIG. **27** is a front elevational view thereof;
FIG. **28** is a rear elevational view thereof;
FIG. **29** is a left side elevational view thereof;
FIG. **30** is a right side elevational view thereof;
FIG. **31** is a top plan view thereof;
FIG. **32** is a bottom plan view thereof;
FIG. **33** is a perspective view of a fifth embodiment of an electrical bus bar assembly showing my new design;
FIG. **34** is another perspective view thereof;
FIG. **35** is a front elevational view thereof;
FIG. **36** is a rear elevational view thereof;
FIG. **37** is a left side elevational view thereof;

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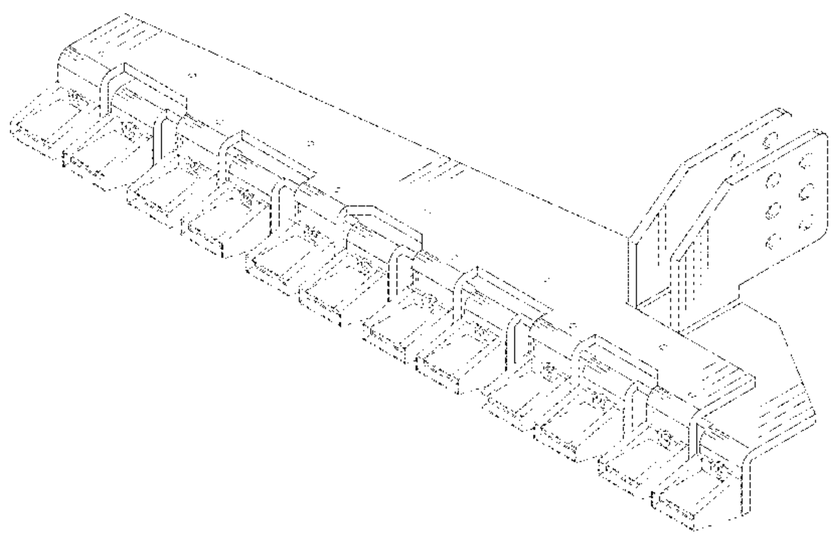


FIG. **38** is a right side elevational view thereof;
FIG. **39** is a top plan view thereof; and,
FIG. **40** is a bottom plan view thereof.
In the drawings, the broken lines are for the purpose of illustrating portions of the electrical bus bar assembly and form no part of the claimed design.

1 Claim, 35 Drawing Sheets

(58) **Field of Classification Search**
CPC H01R 25/14; H01R 25/16; H02B 1/26; H02B 1/056
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,002,388	A *	1/1977	Menocal	H02B 1/21 439/884
4,198,107	A *	4/1980	Luke	H02B 1/21 361/637
D311,902	S *	11/1990	Scherer	D13/160
D532,379	S *	11/2006	Sorrentino	D13/149
7,580,247	B1 *	8/2009	Pearson	H02B 1/056 174/149 B
D717,736	S *	11/2014	Kimura	D13/154
D743,896	S *	11/2015	Murphy	D13/147
D743,898	S *	11/2015	Murphy	D13/147
D760,170	S *	6/2016	Murphy	D13/147
D784,265	S *	4/2017	Perlaguri	D13/147
9,935,395	B1 *	4/2018	Jepsen	H01R 13/62
D834,529	S *	11/2018	Murphy	D13/154
2013/0000971	A1 *	1/2013	Sakaki	B60R 16/0238 174/520
2013/0062937	A1 *	3/2013	Fussl	B60R 16/02 307/9.1
2014/0099806	A1 *	4/2014	Ehlen	H01R 13/6315 439/121
2014/0342585	A1 *	11/2014	Benedetti	H02G 5/02 439/110
2015/0136476	A1 *	5/2015	Lumetta	H02G 5/025 174/70 B
2019/0237948	A1 *	8/2019	Cao	H02B 1/20

* cited by examiner

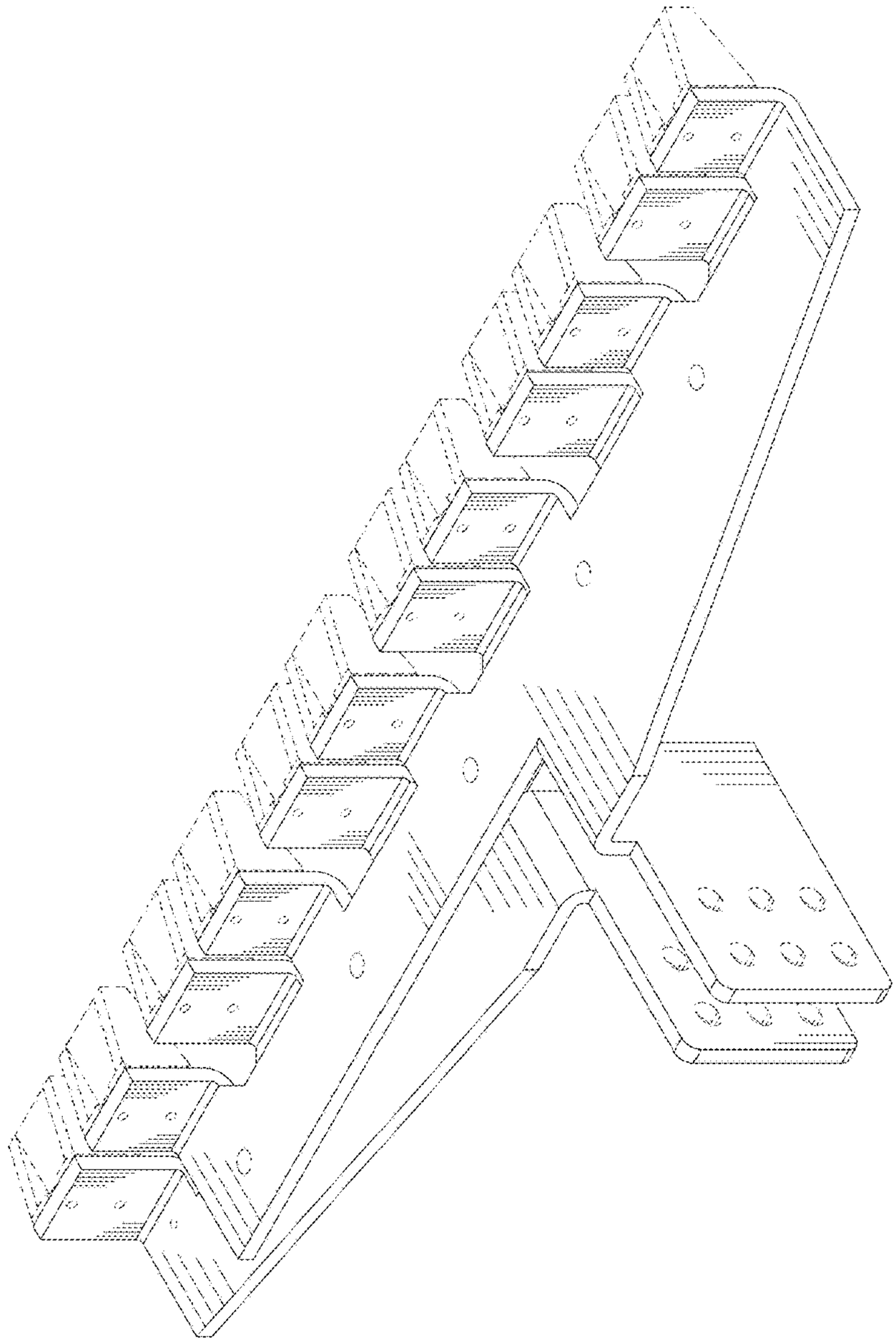


FIG. 1

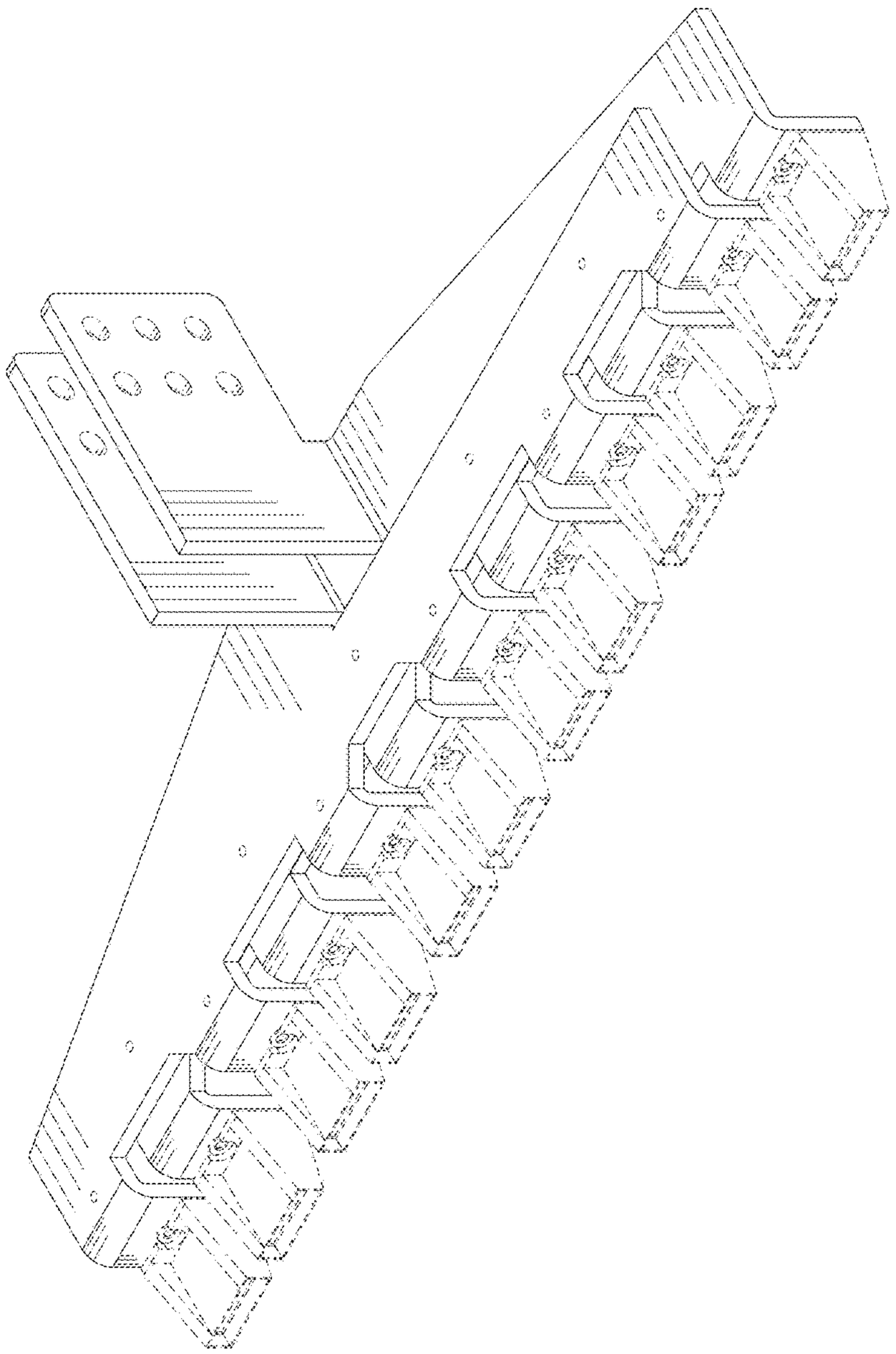


FIG. 2

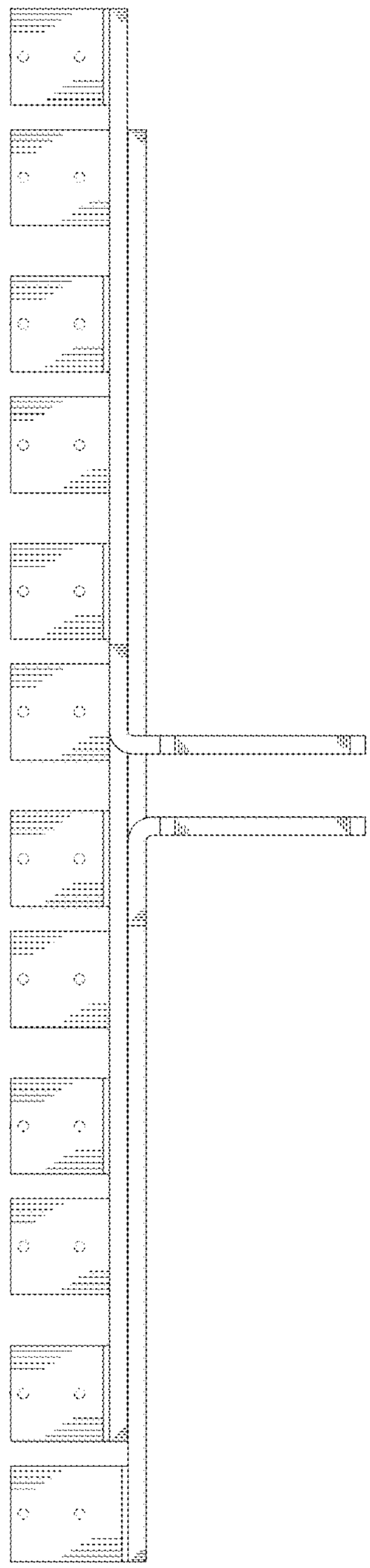


FIG. 3

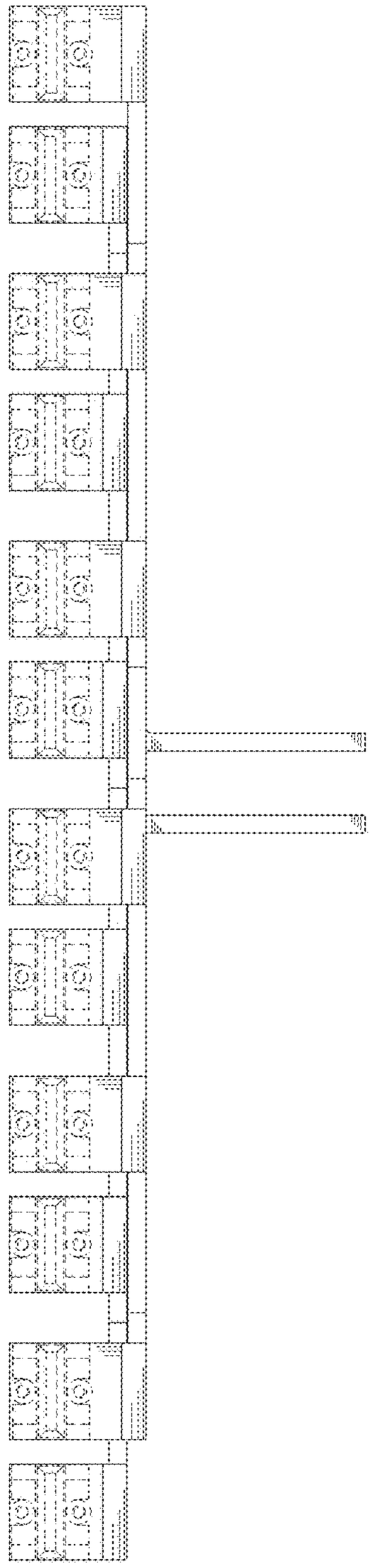


FIG. 4

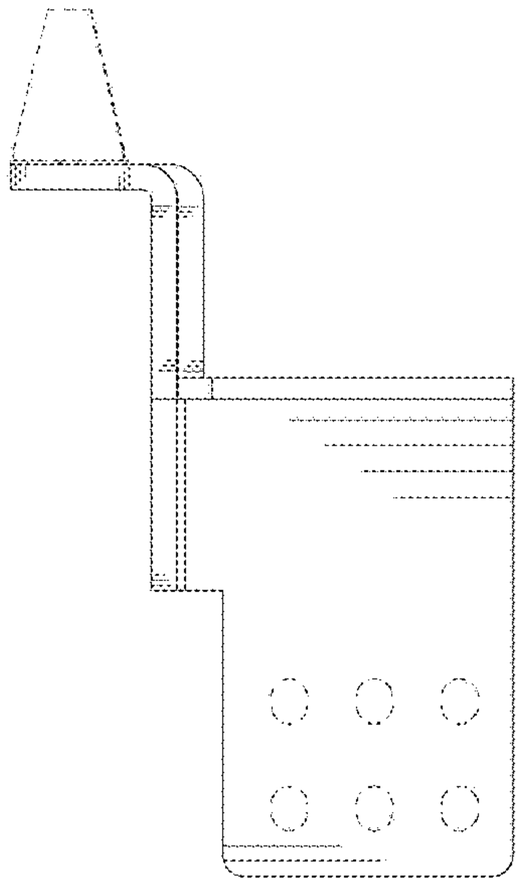


FIG. 6

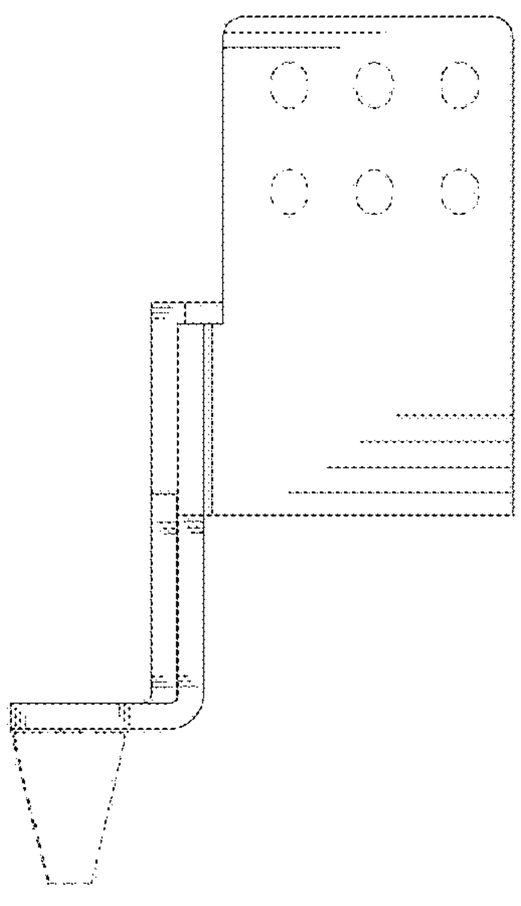


FIG. 5

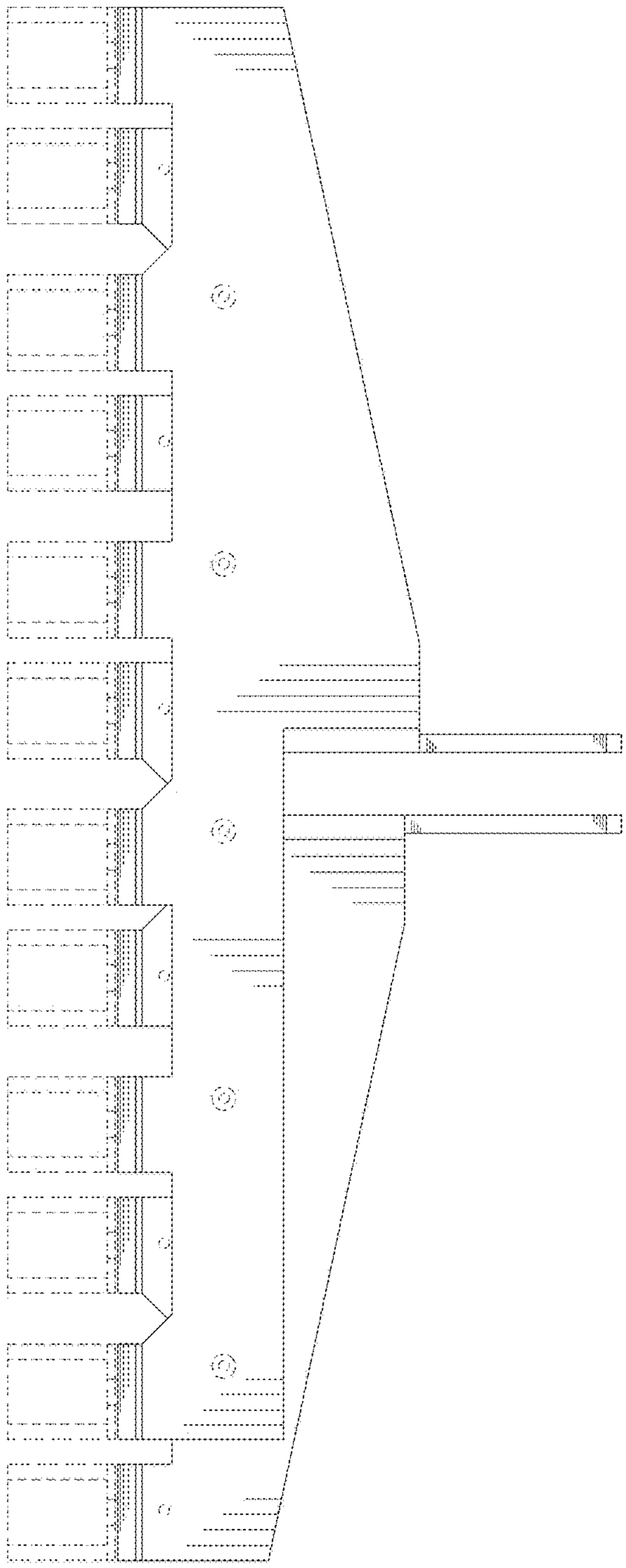


FIG. 7

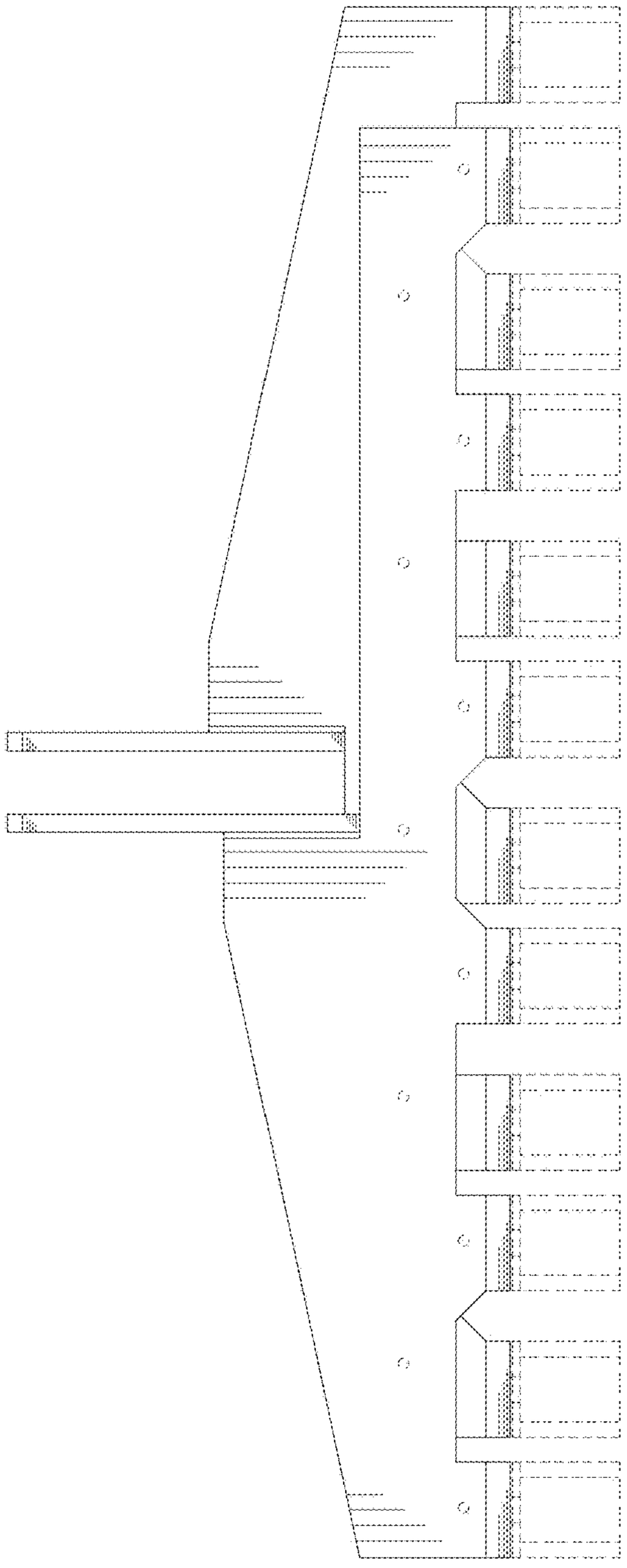
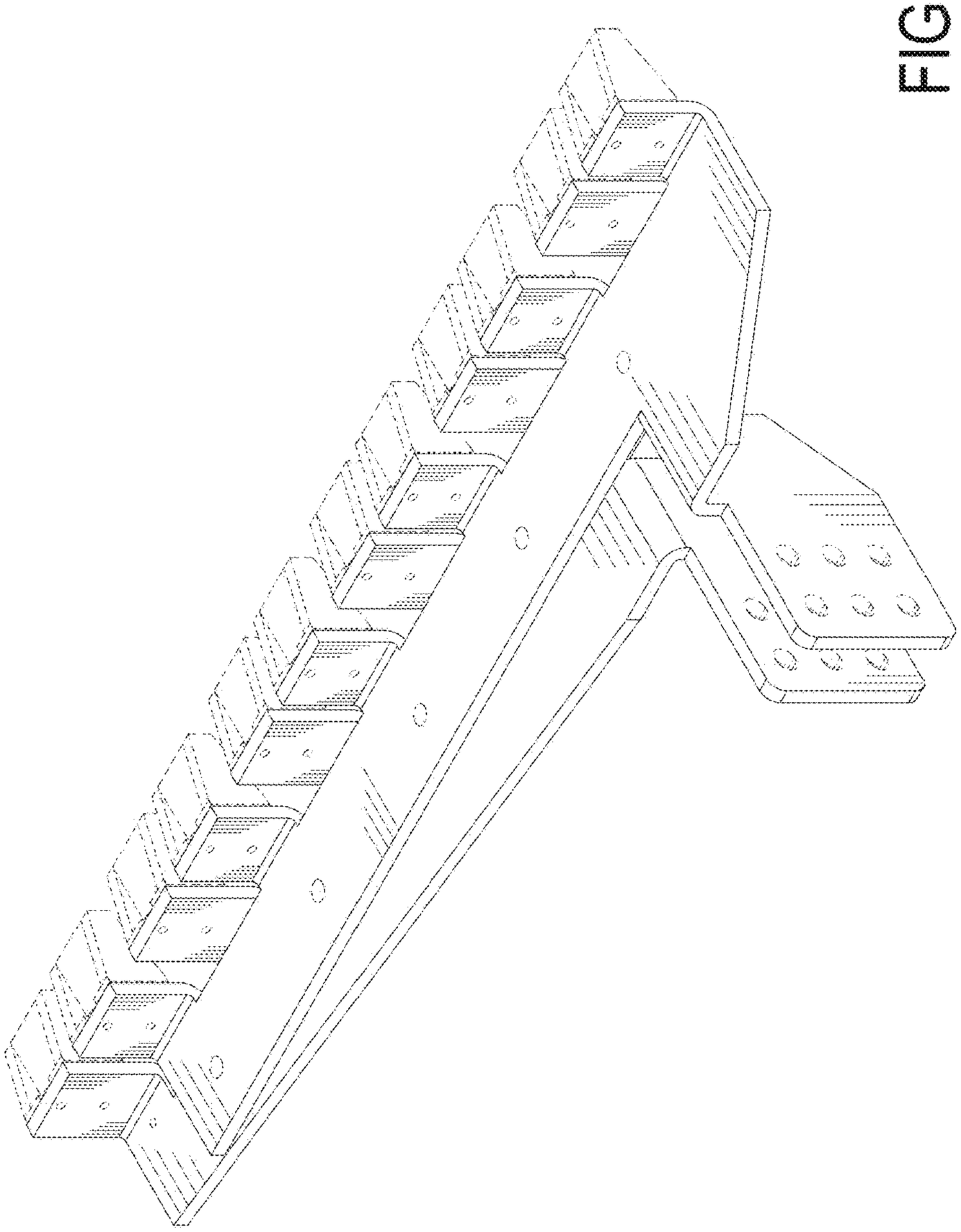


FIG. 8

FIG. 6



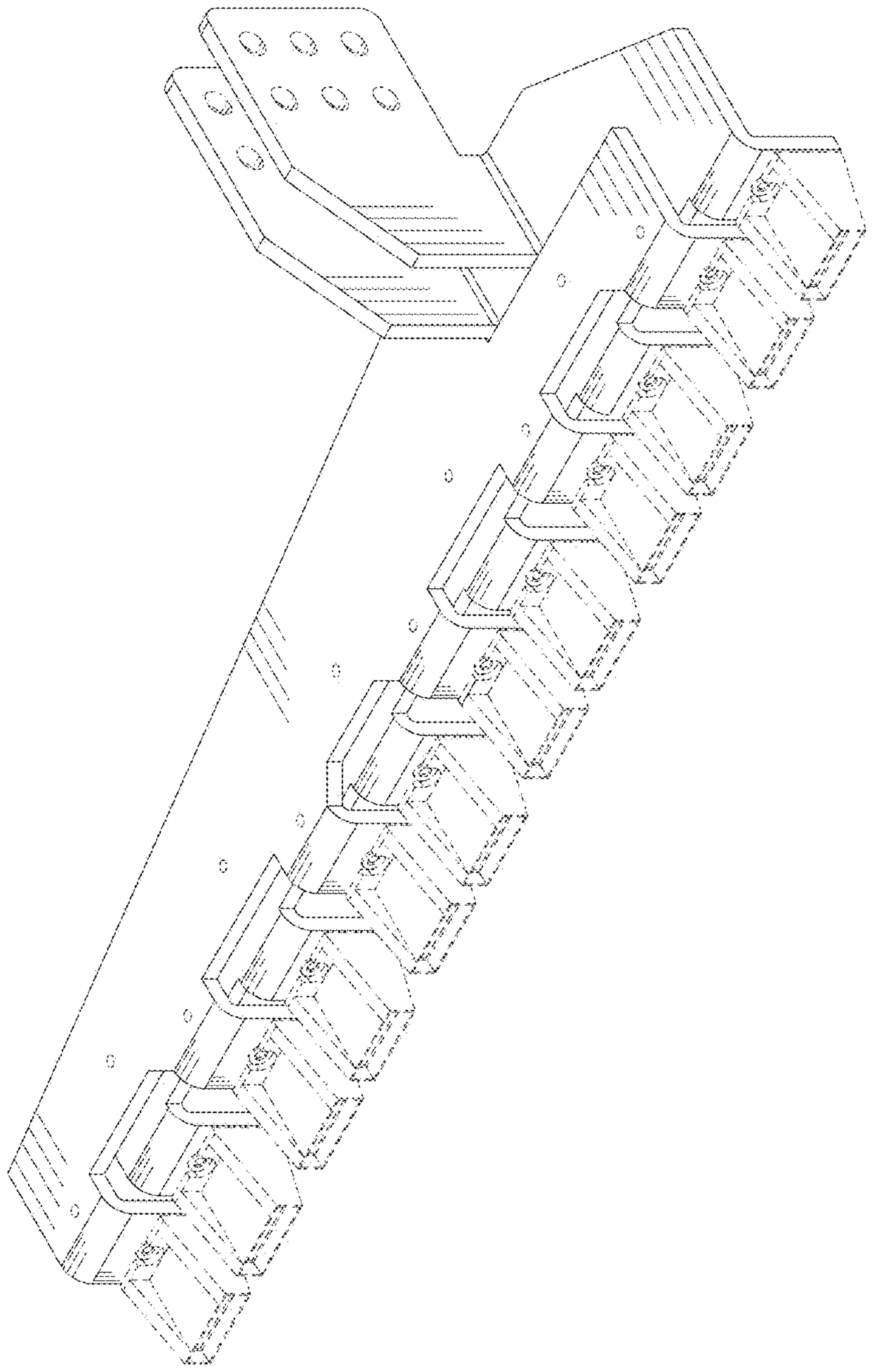


FIG. 10

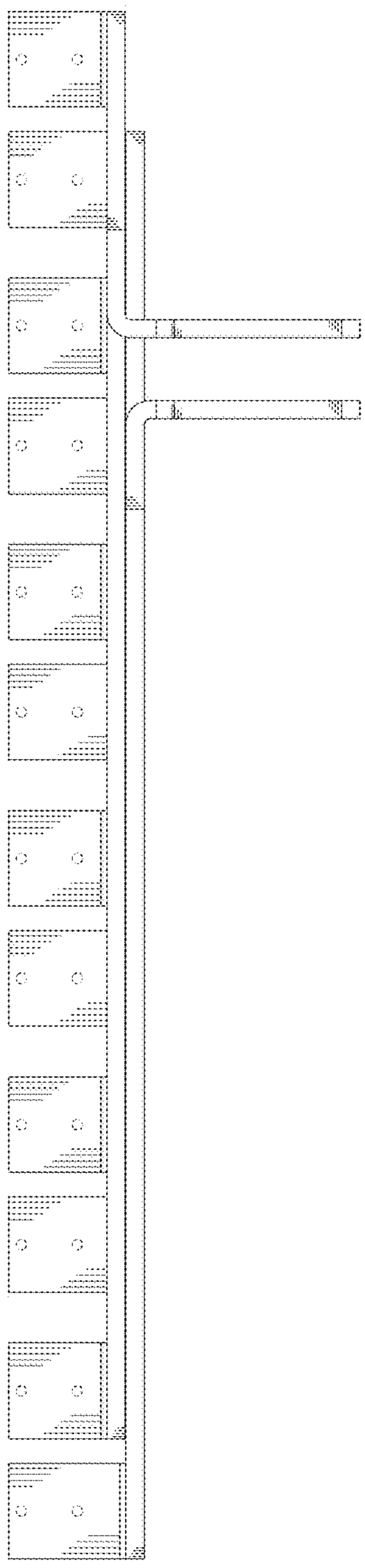


FIG. 11

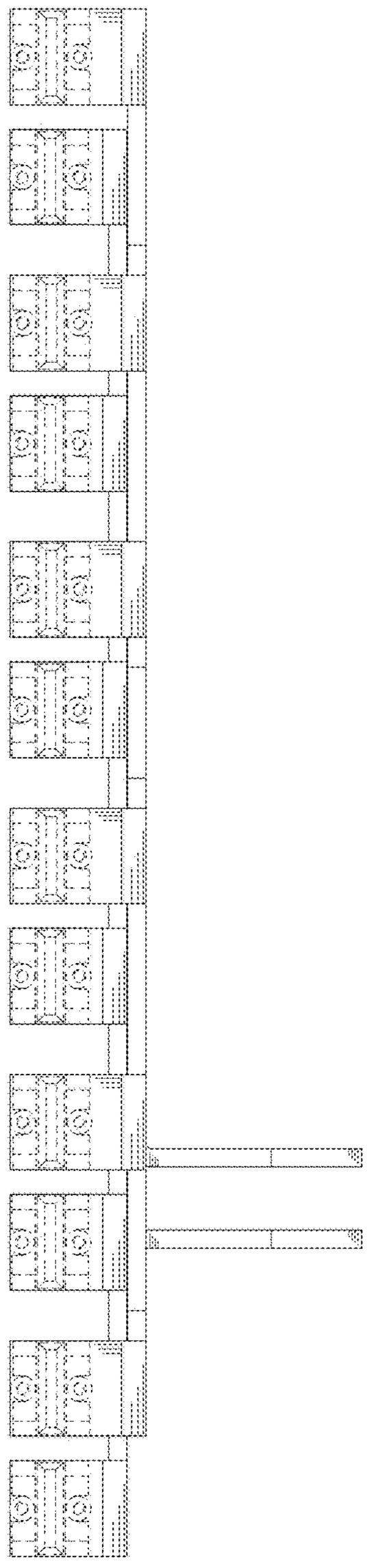


FIG. 12

FIG. 13

FIG. 14

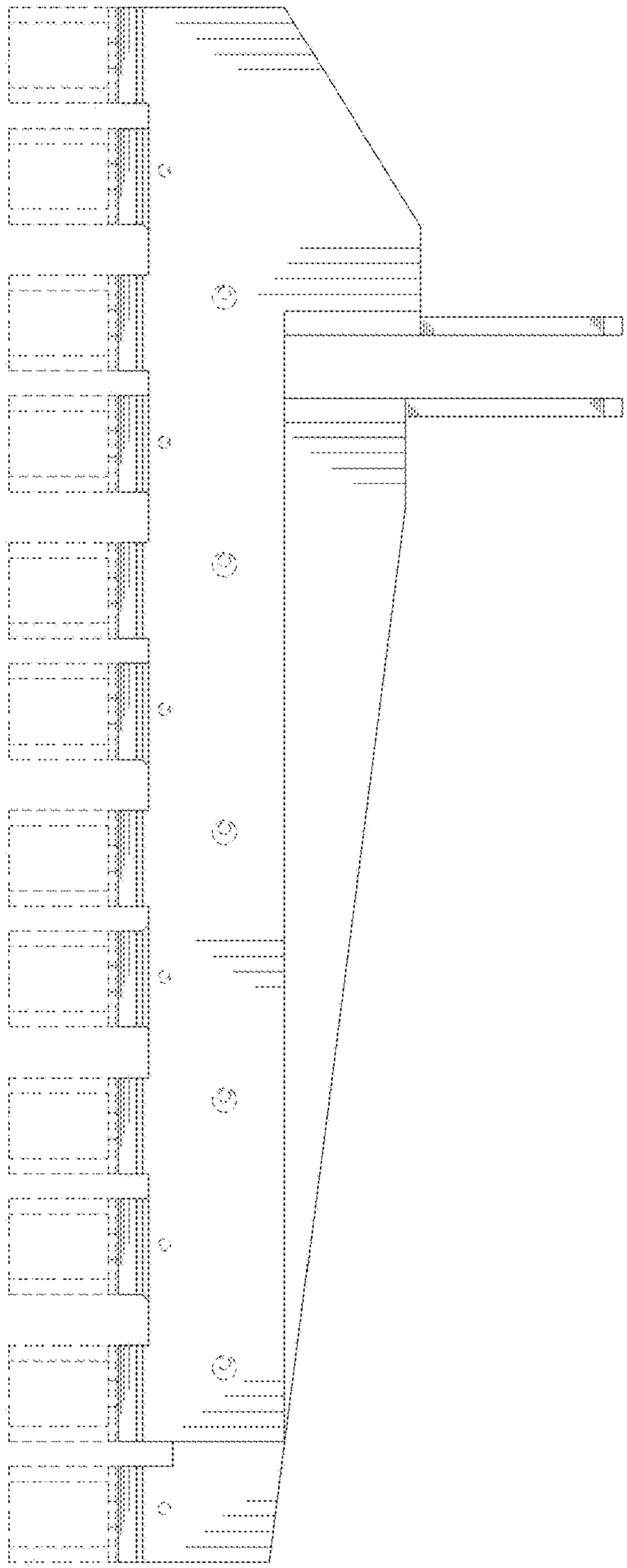


FIG. 15

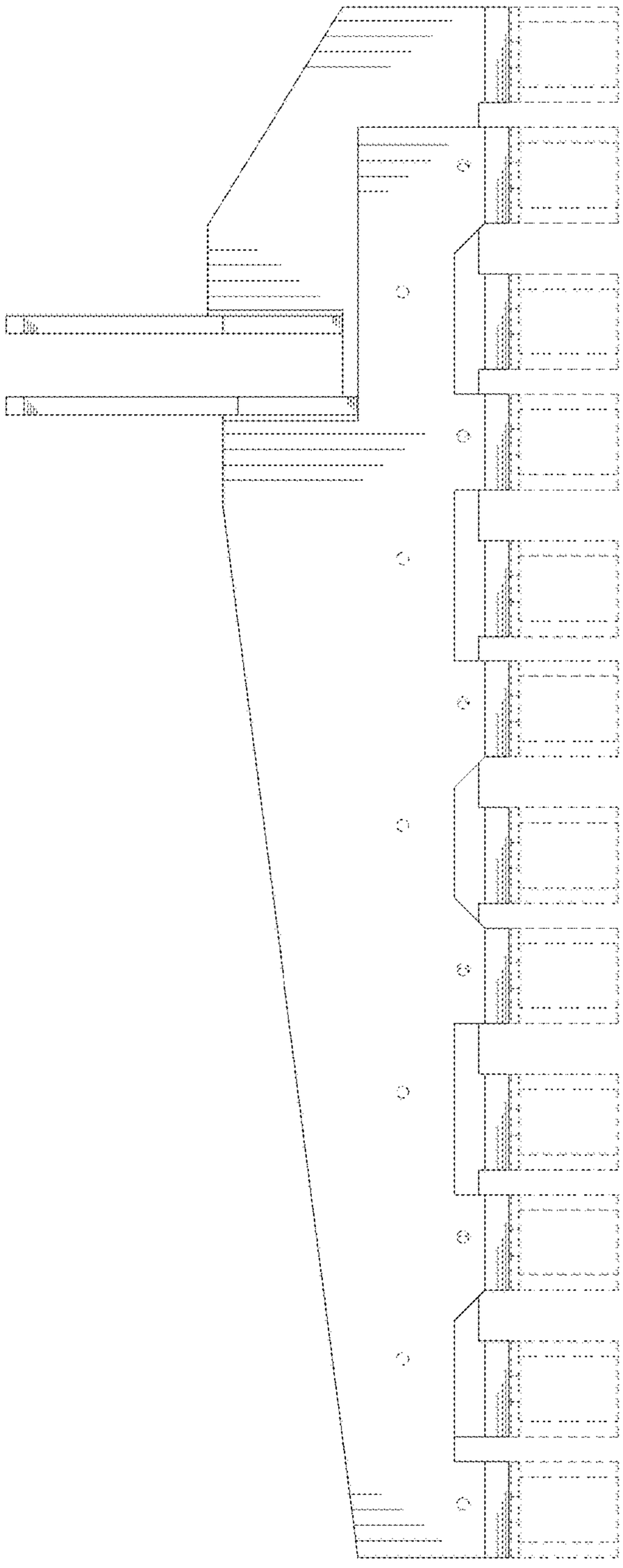


FIG. 16

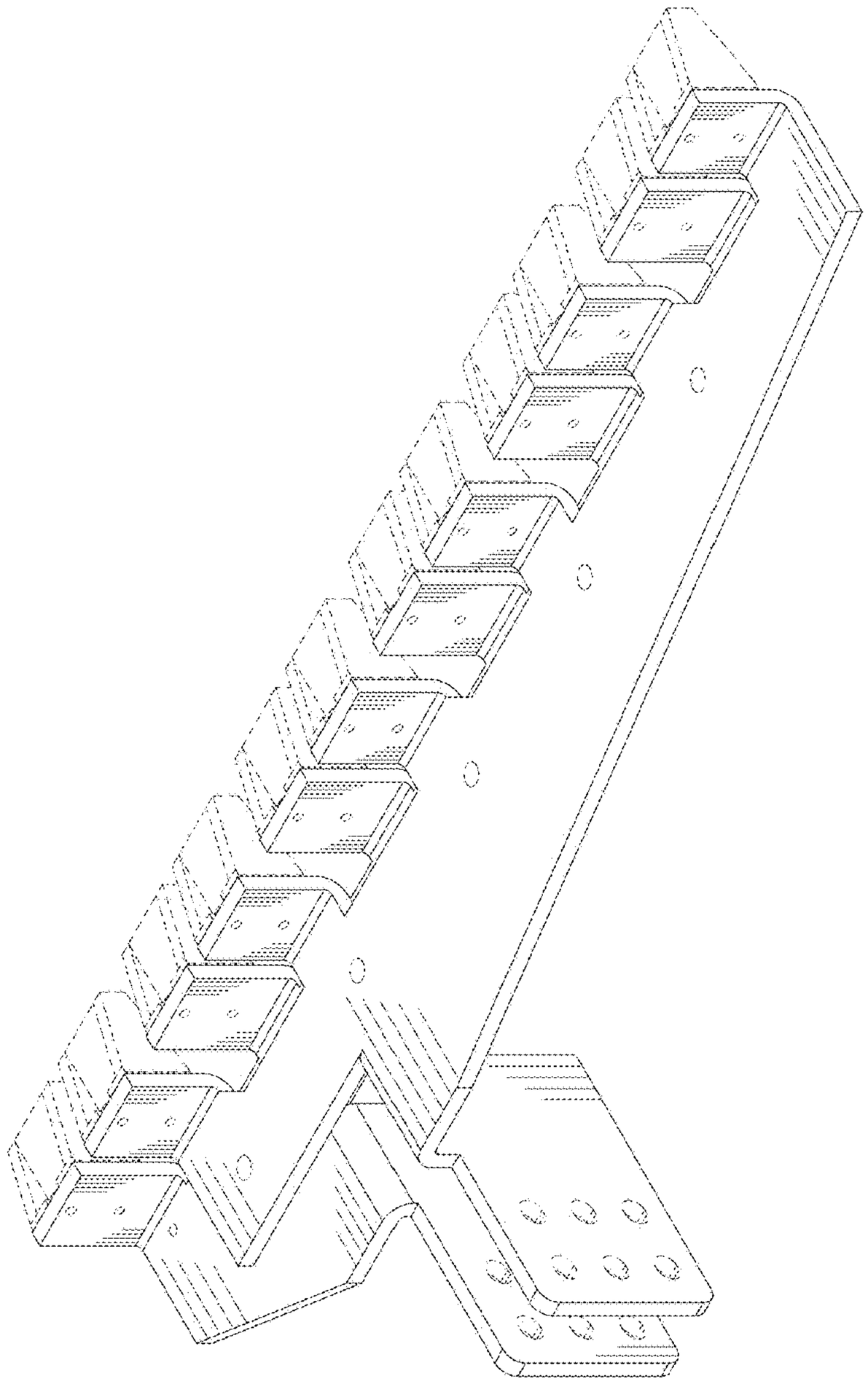


FIG. 17

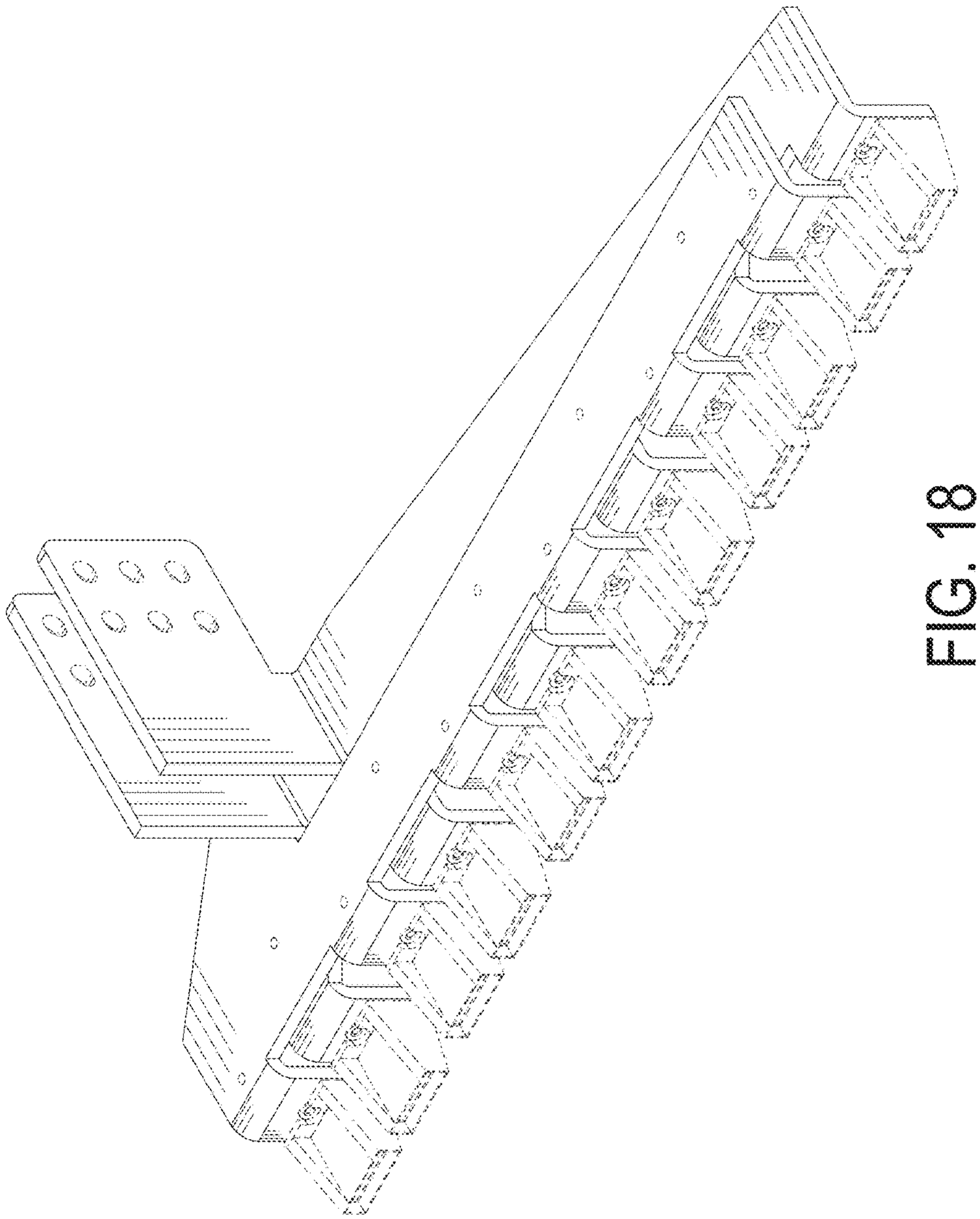
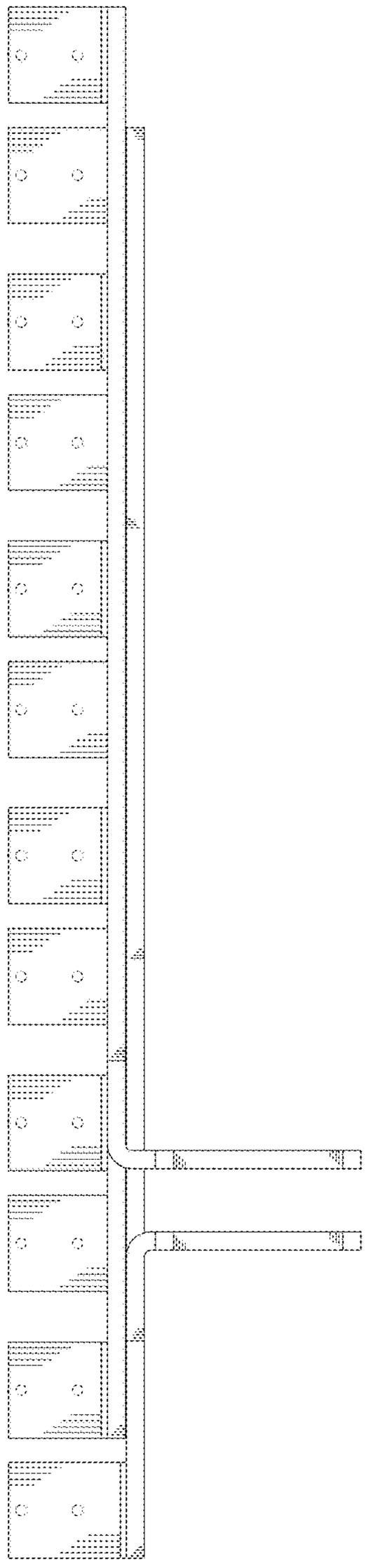


FIG. 18



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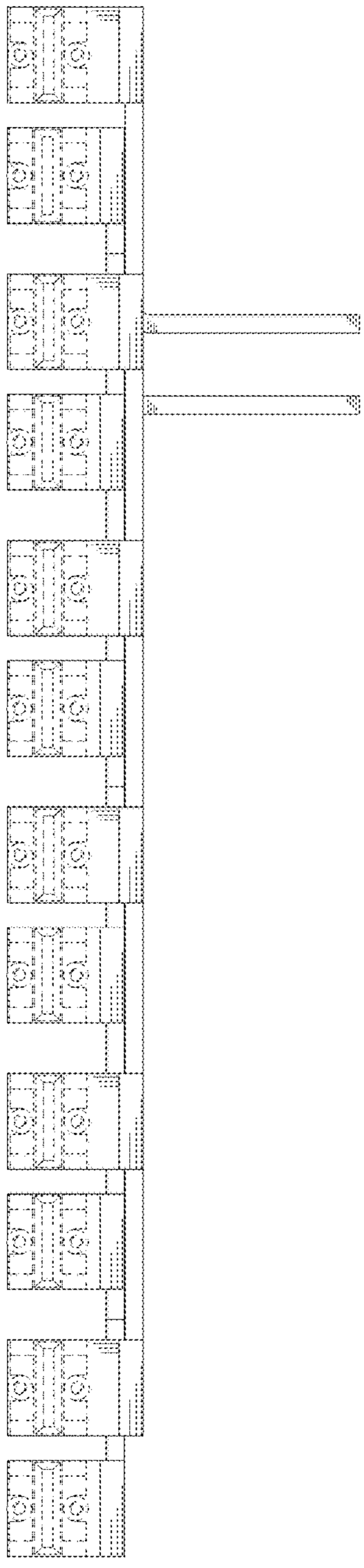


FIG. 20

FIG. 22

FIG. 21

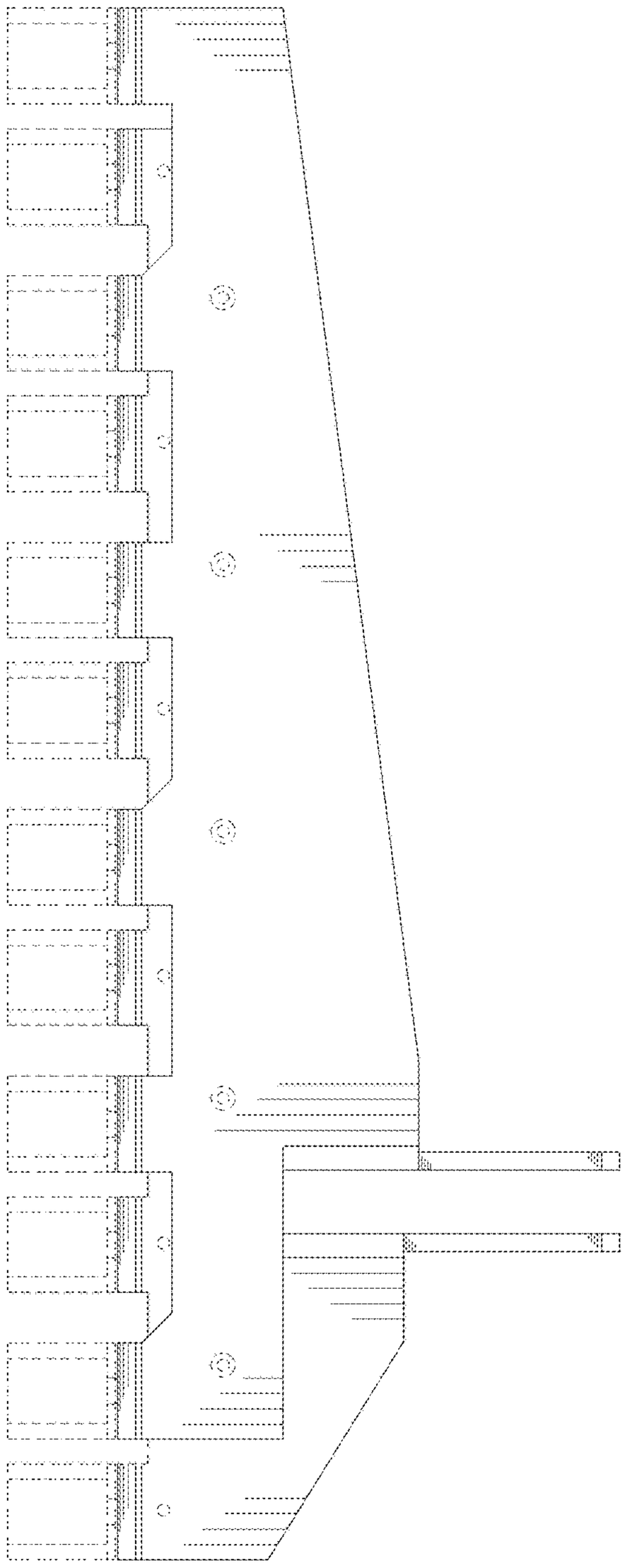


FIG. 23

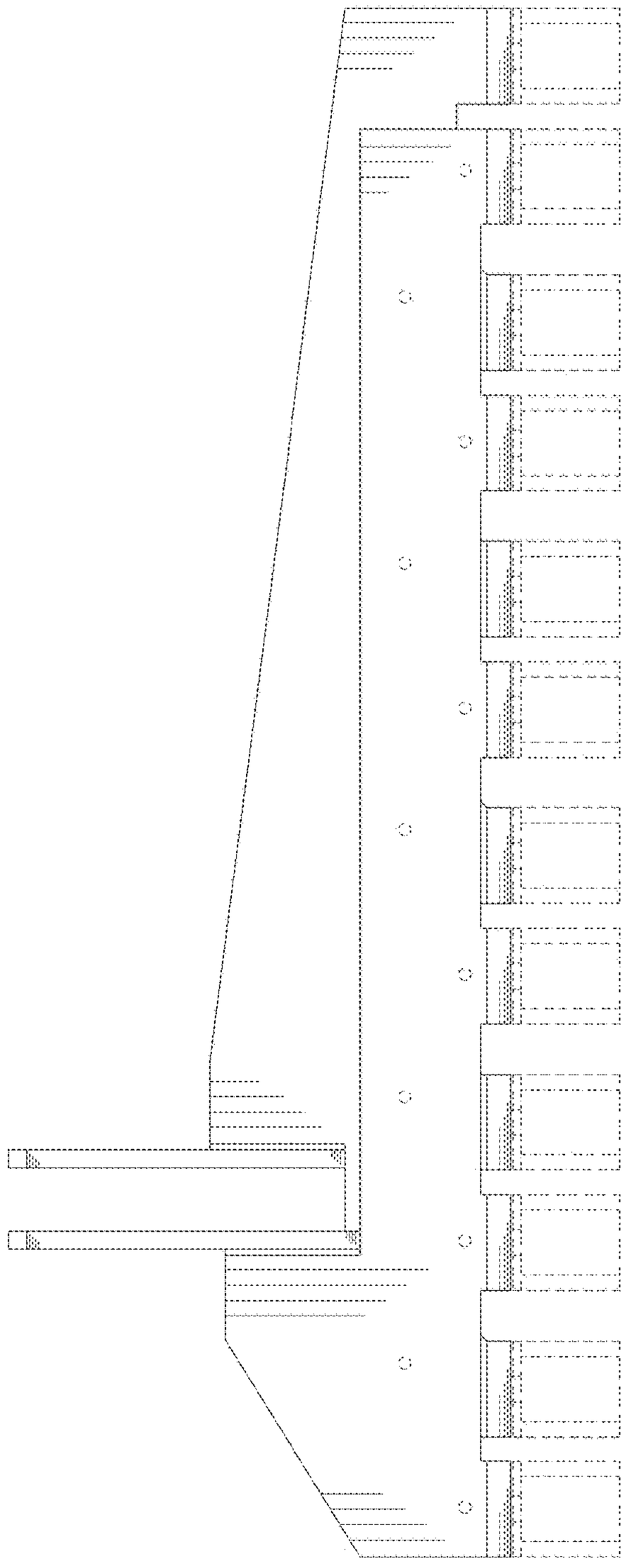
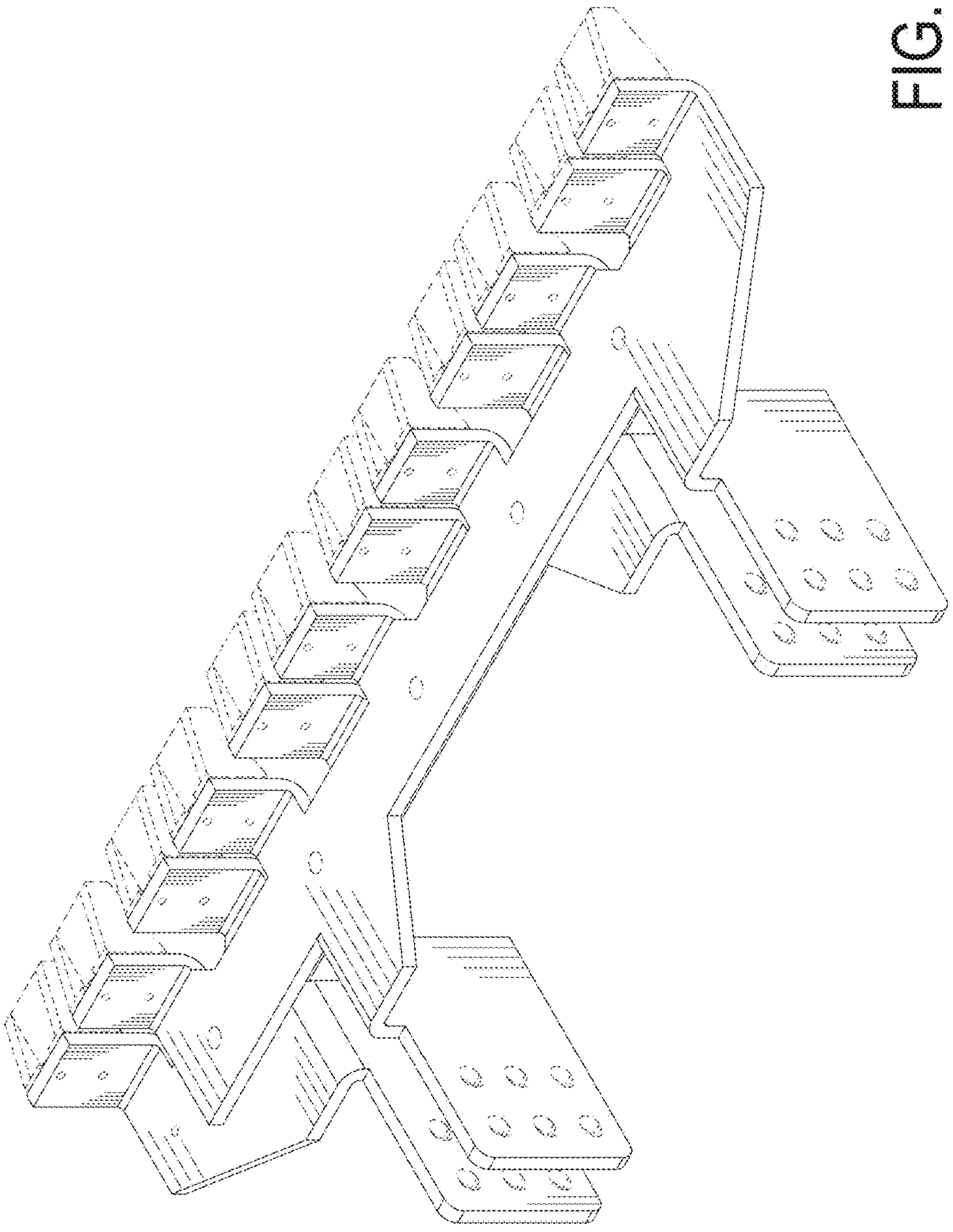


FIG. 24

FIG. 25



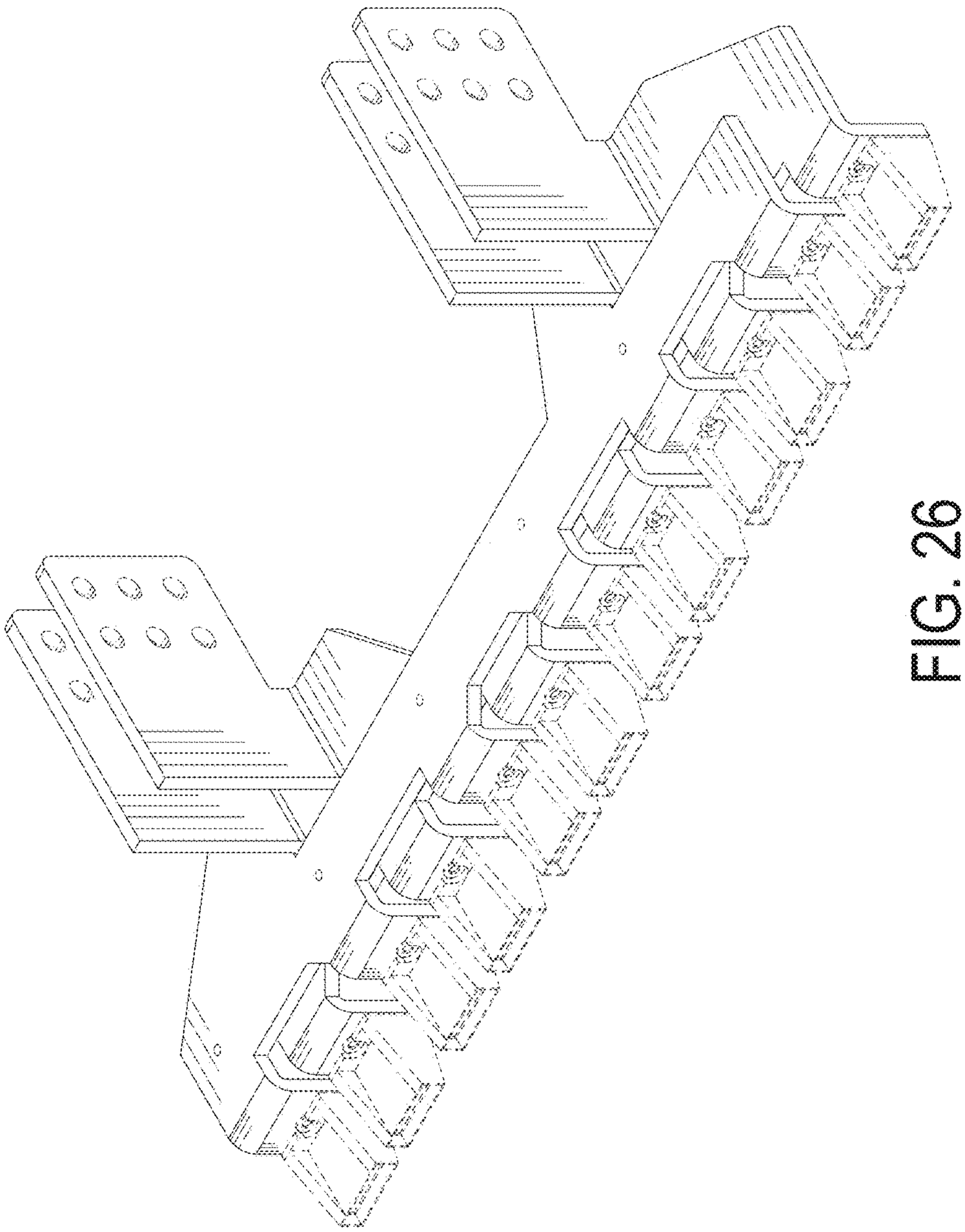


FIG. 26

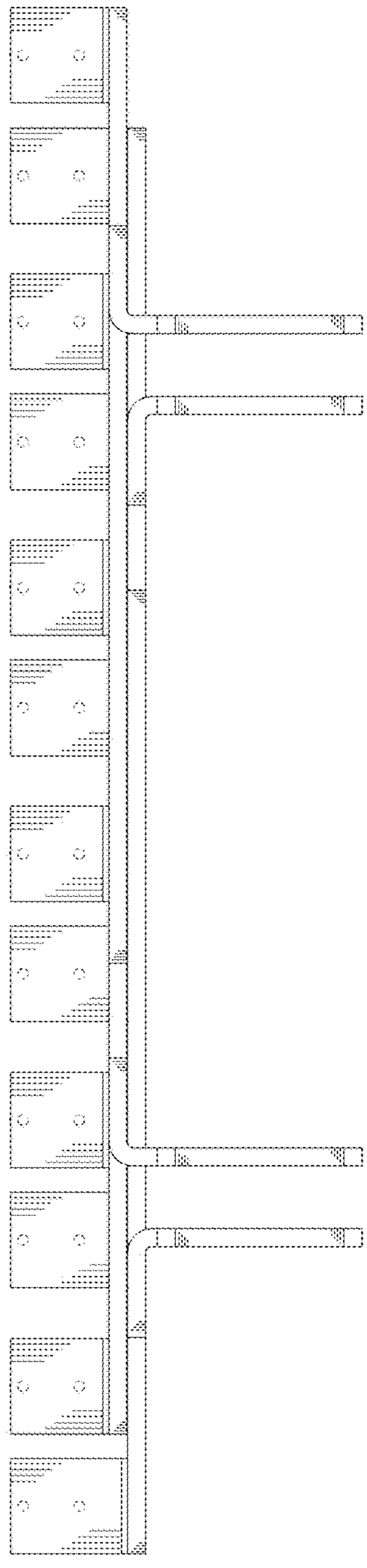


FIG. 27

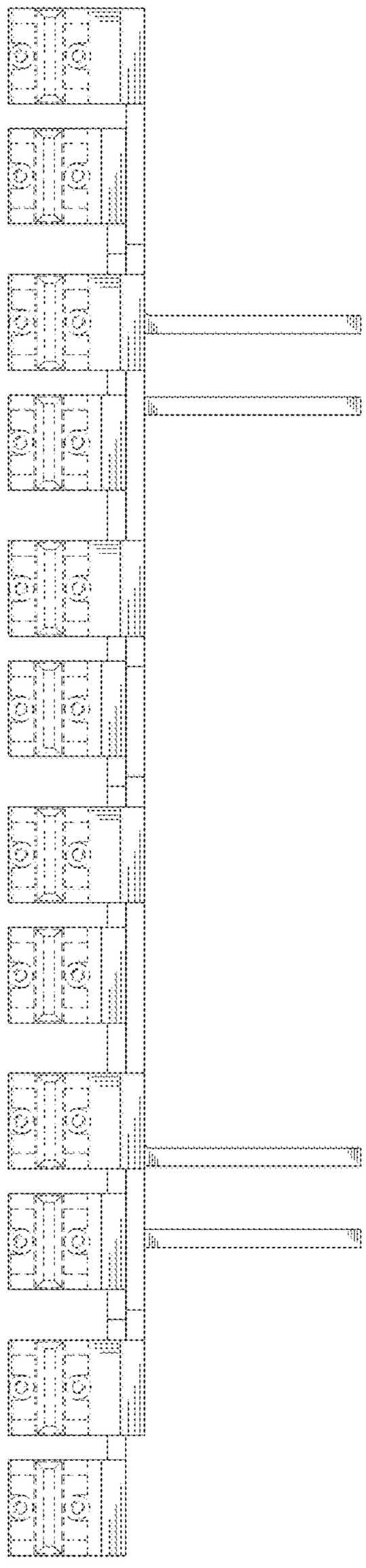


FIG. 28

FIG. 29

FIG. 30

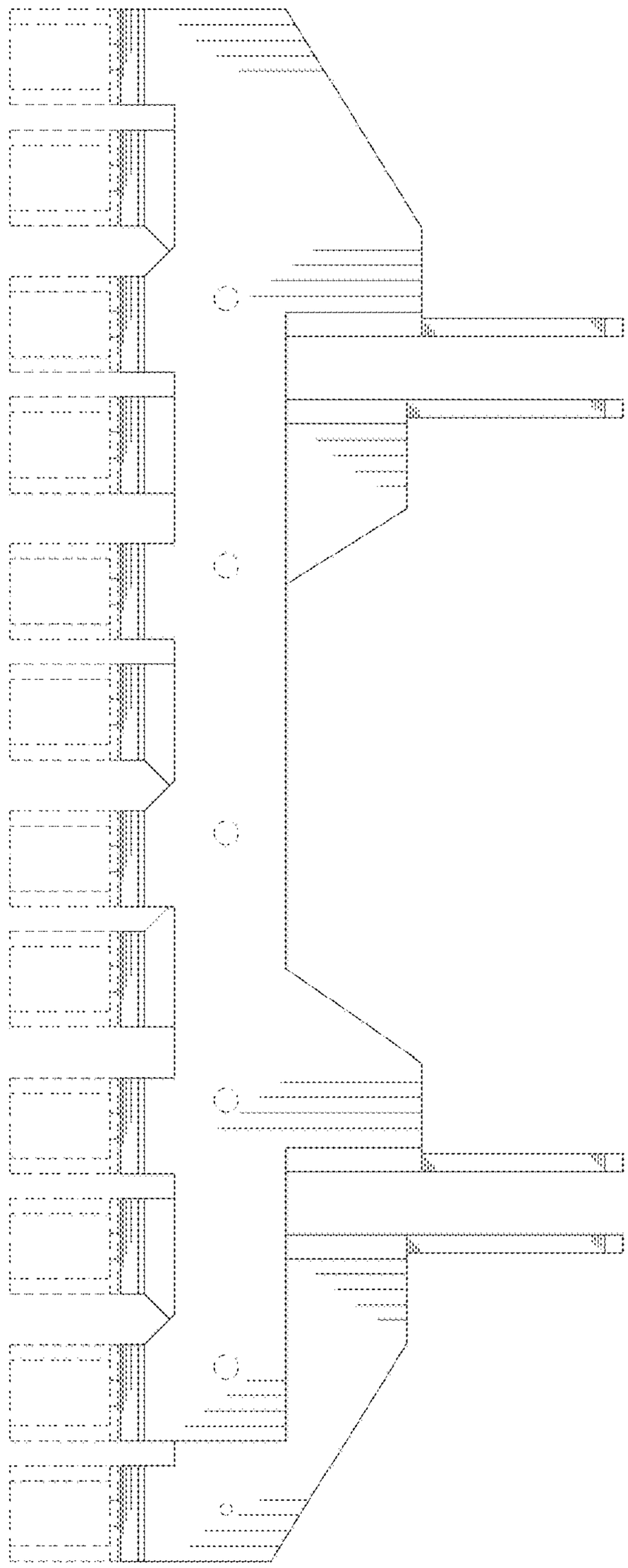


FIG. 31

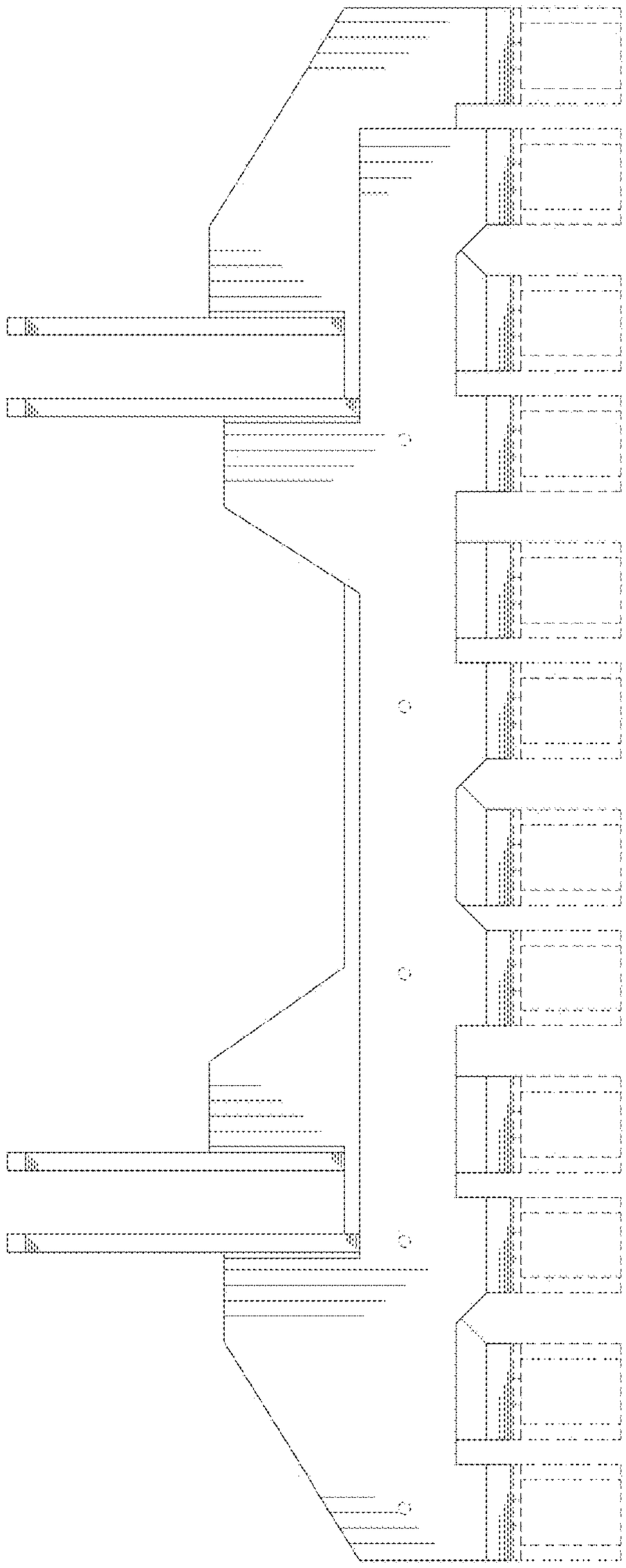
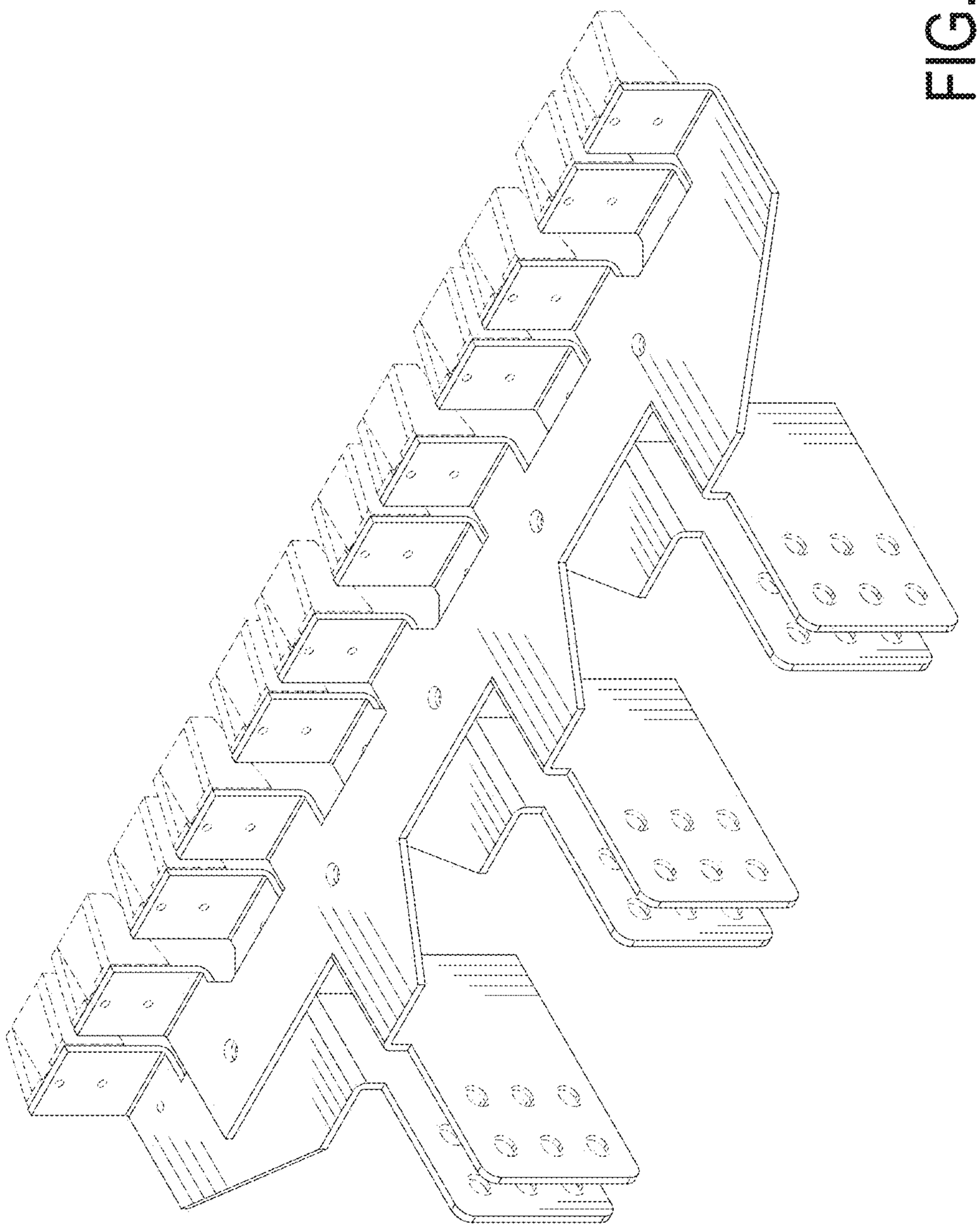


FIG. 32

FIG. 33



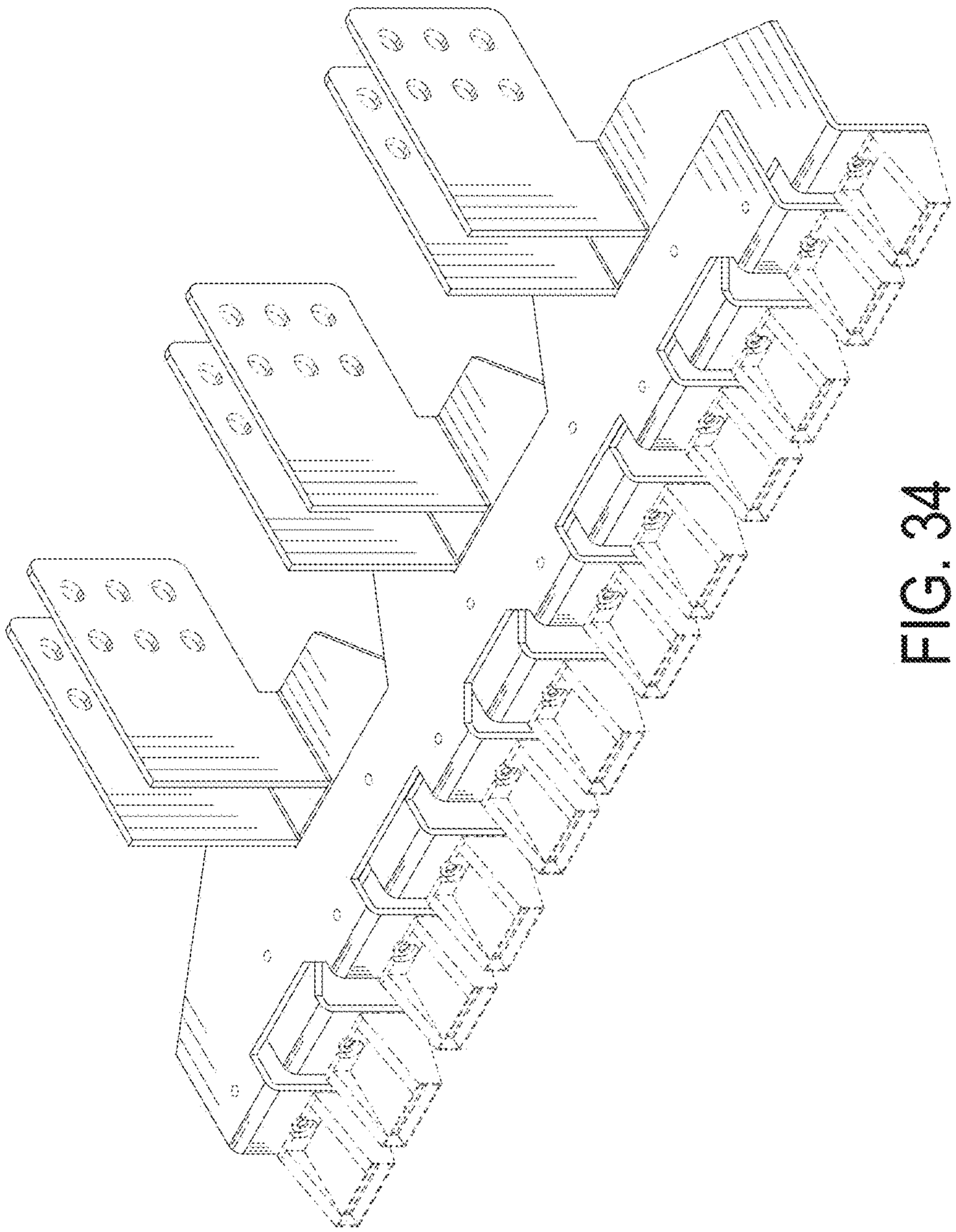


FIG. 34

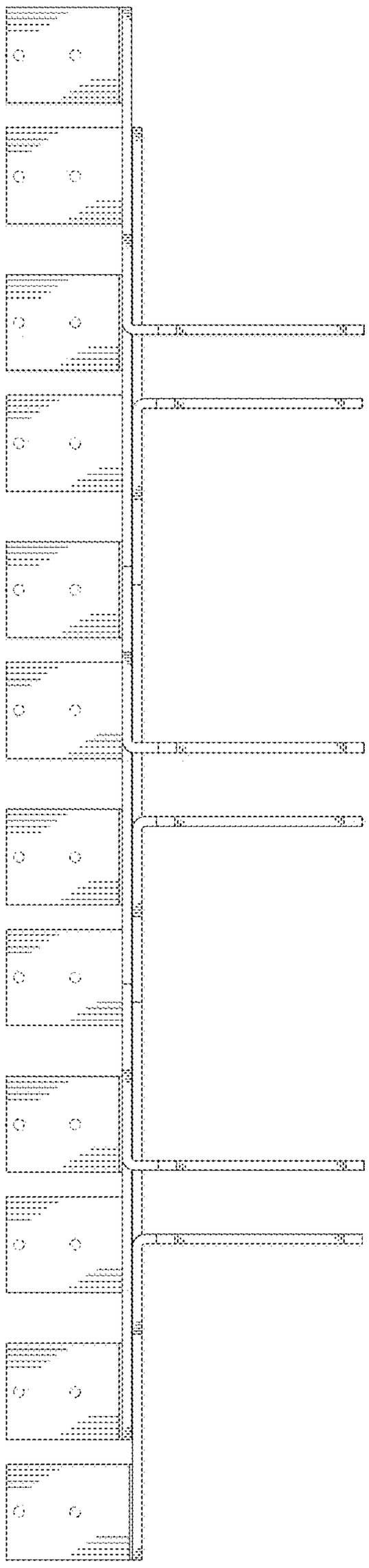


FIG. 35

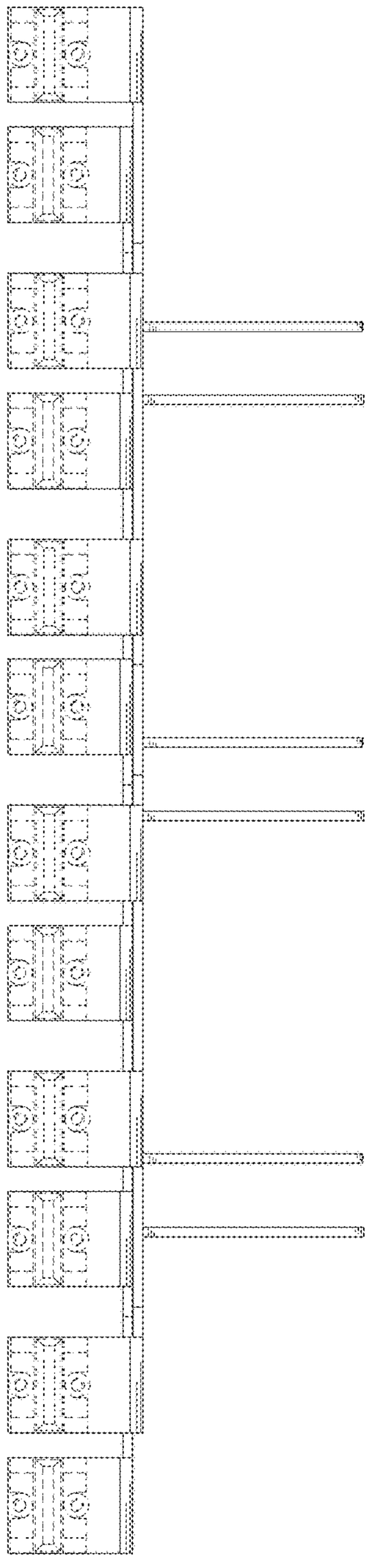
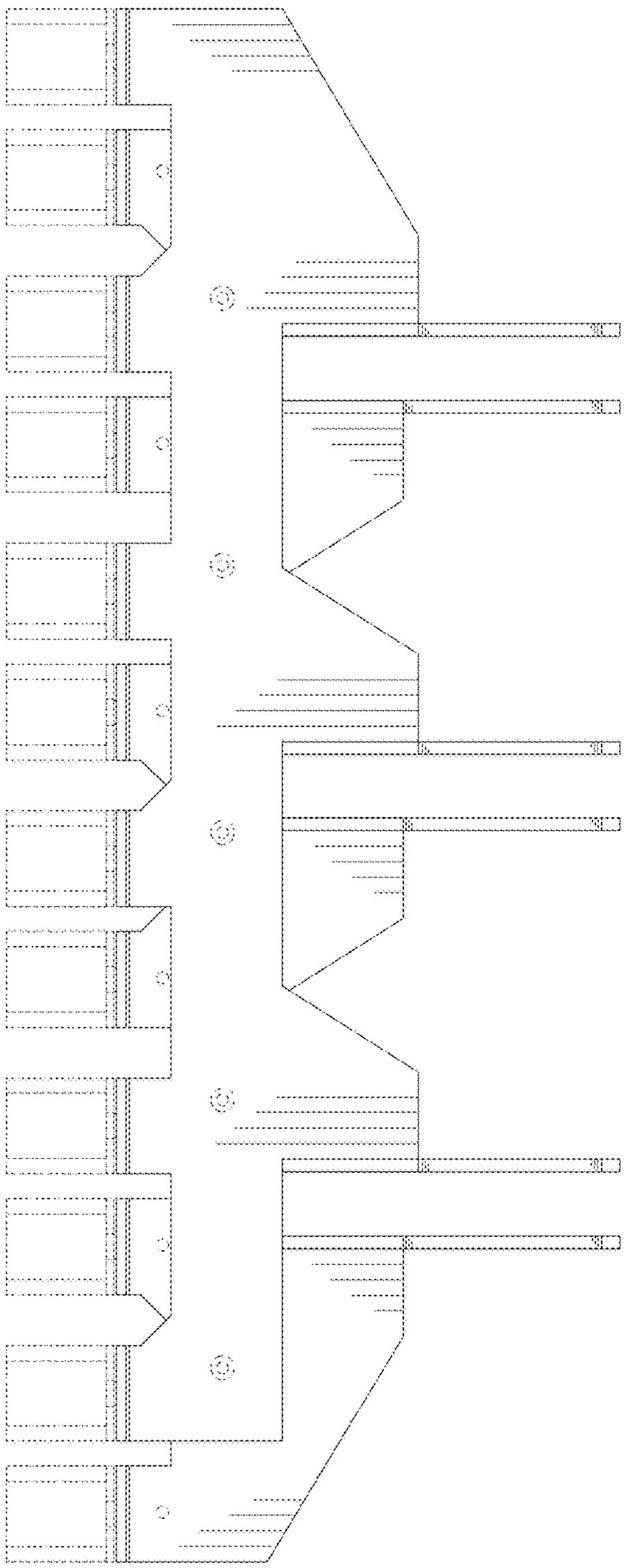


FIG. 36

FIG. 37

FIG. 38



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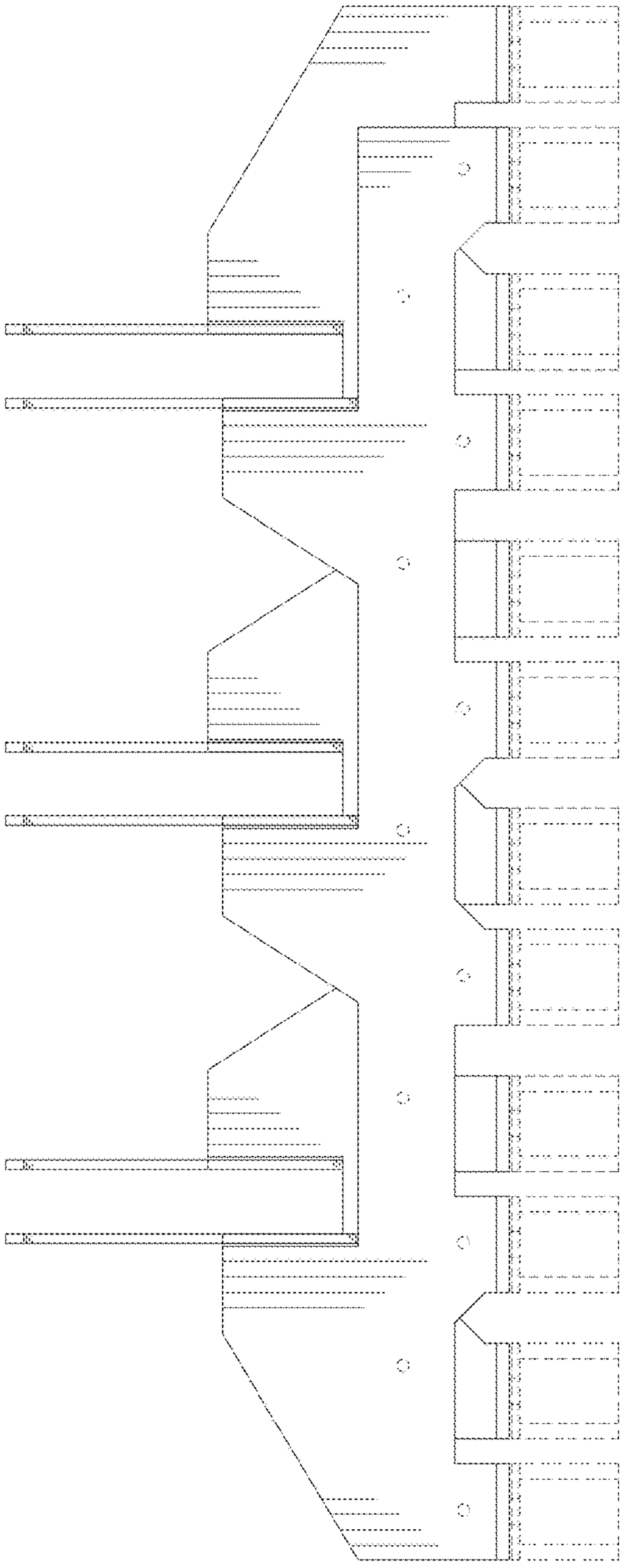

FIG. 40