

US00D799433S

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

(10) **Patent No.:** **US D799,433 S**

(45) **Date of Patent:** **** Oct. 10, 2017**

(54) **DATA ENTRY DEVICE FOR NUMERICAL CONTROLLER**

(71) Applicant: **Mitsubishi Electric Corporation,**
Tokyo (JP)

(72) Inventors: **Kayo Shimohama,** Tokyo (JP);
Shoichiro Hayashi, Tokyo (JP);
Takahisa Kato, Tokyo (JP); **Hirohisa Naguchi,** Tokyo (JP)

(73) Assignee: **Mitsubishi Electric Corporation,**
Tokyo (JP)

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

(21) Appl. No.: **29/583,845**

(22) Filed: **Nov. 9, 2016**

Related U.S. Application Data

(62) Division of application No. 29/523,455, filed on Apr. 9, 2015, now Pat. No. Des. 776,627.

(30) **Foreign Application Priority Data**

Dec. 22, 2014 (JP) 2014-028748
Dec. 22, 2014 (JP) 2014-028749
Dec. 22, 2014 (JP) 2014-028750

(51) **LOC (10) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/164**

(58) **Field of Classification Search**

USPC D13/162, 162.1, 164; D10/49, 50;
D14/336, 371
CPC G05B 19/0425; G05B 19/0426; G05B
19/05; G05B 19/409; G05B 19/4147;
G06F 3/0484; G06F 3/0489; G06F
1/1601

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D275,851 S	10/1984	Bambeck	
4,524,414 A	6/1985	Kiyokawa	
D280,406 S	9/1985	Walker	
4,916,639 A	4/1990	Yoneda et al.	
D334,542 S	4/1993	Lowe et al.	
5,724,069 A	3/1998	Chen	
D406,830 S	3/1999	Herbstritt et al.	
7,092,248 B2	8/2006	Shu	
D559,792 S	1/2008	Gemme	
D573,108 S	7/2008	Pan	
7,499,029 B2	3/2009	Hara	
7,978,465 B2	7/2011	Osaka et al.	
D753,607 S	4/2016	Lee et al.	
D765,042 S *	8/2016	Shimohama	D13/164
D776,627 S *	1/2017	Shimohama	D13/164
2003/0040884 A1	2/2003	Walther et al.	
2010/0175012 A1	7/2010	Allstrom et al.	
2012/0109343 A1	5/2012	Shah	

(Continued)

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — Studebaker & Brackett PC

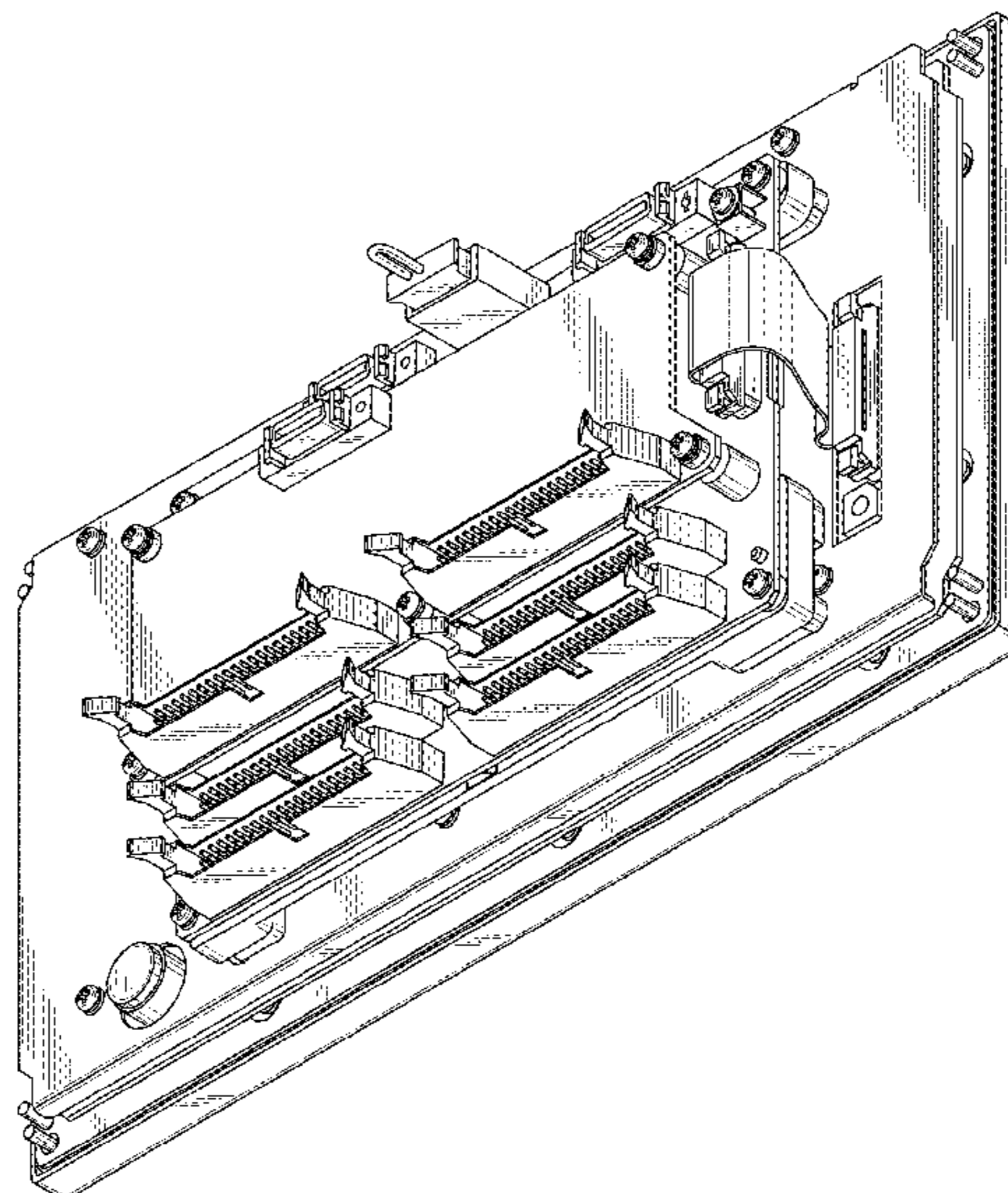
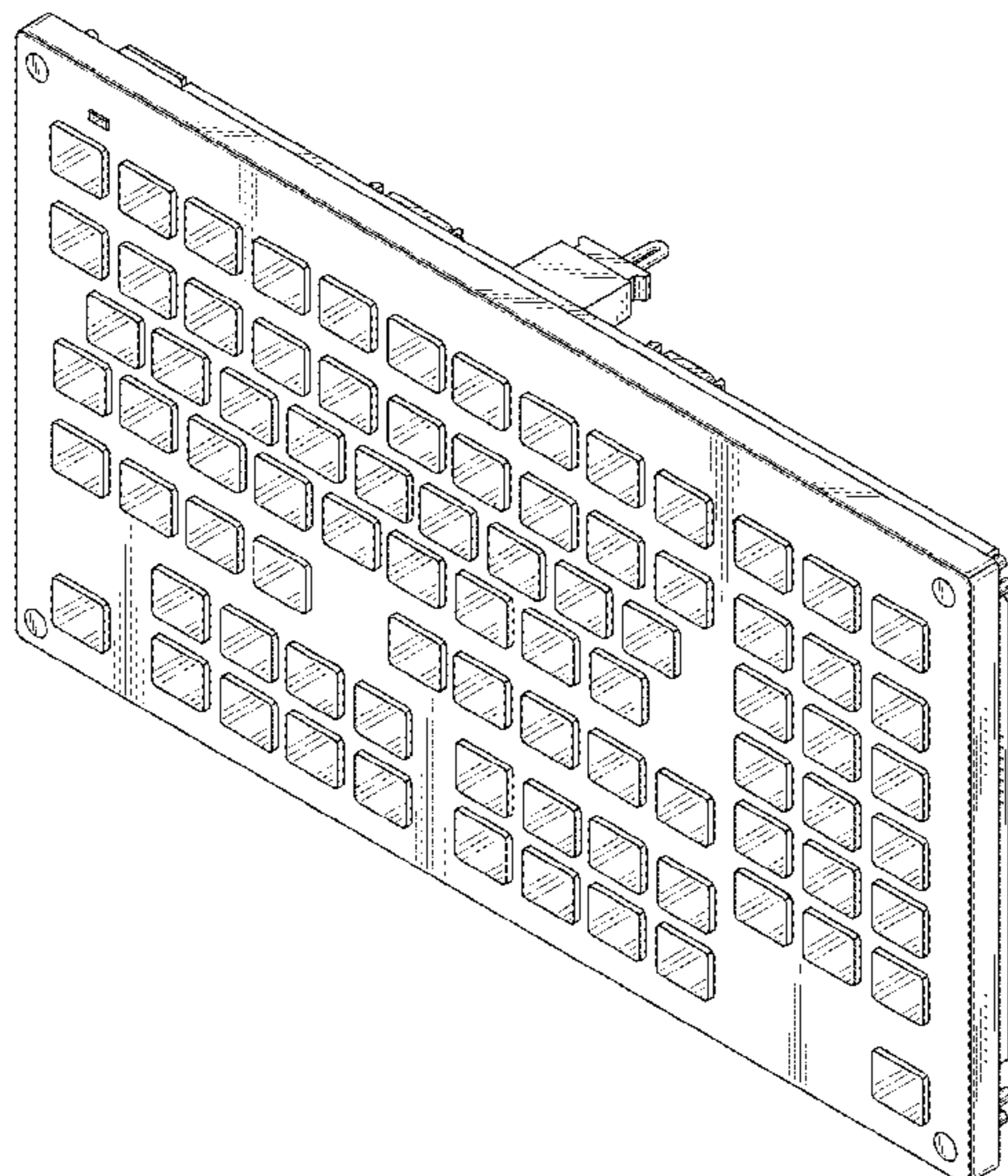
(57) **CLAIM**

The ornamental design for data entry device for numerical controller, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view thereof of a data entry device for numerical controller, showing our new design; FIG. 2 is a rear 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; and, FIG. 8 is a bottom plan view thereof.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2012/0268240 A1 10/2012 Frerking
2015/0205287 A1 7/2015 Igarashi et al.
2016/0048121 A1 2/2016 Shinohara et al.
2016/0113130 A1 4/2016 Le et al.

* cited by examiner

FIG. 1

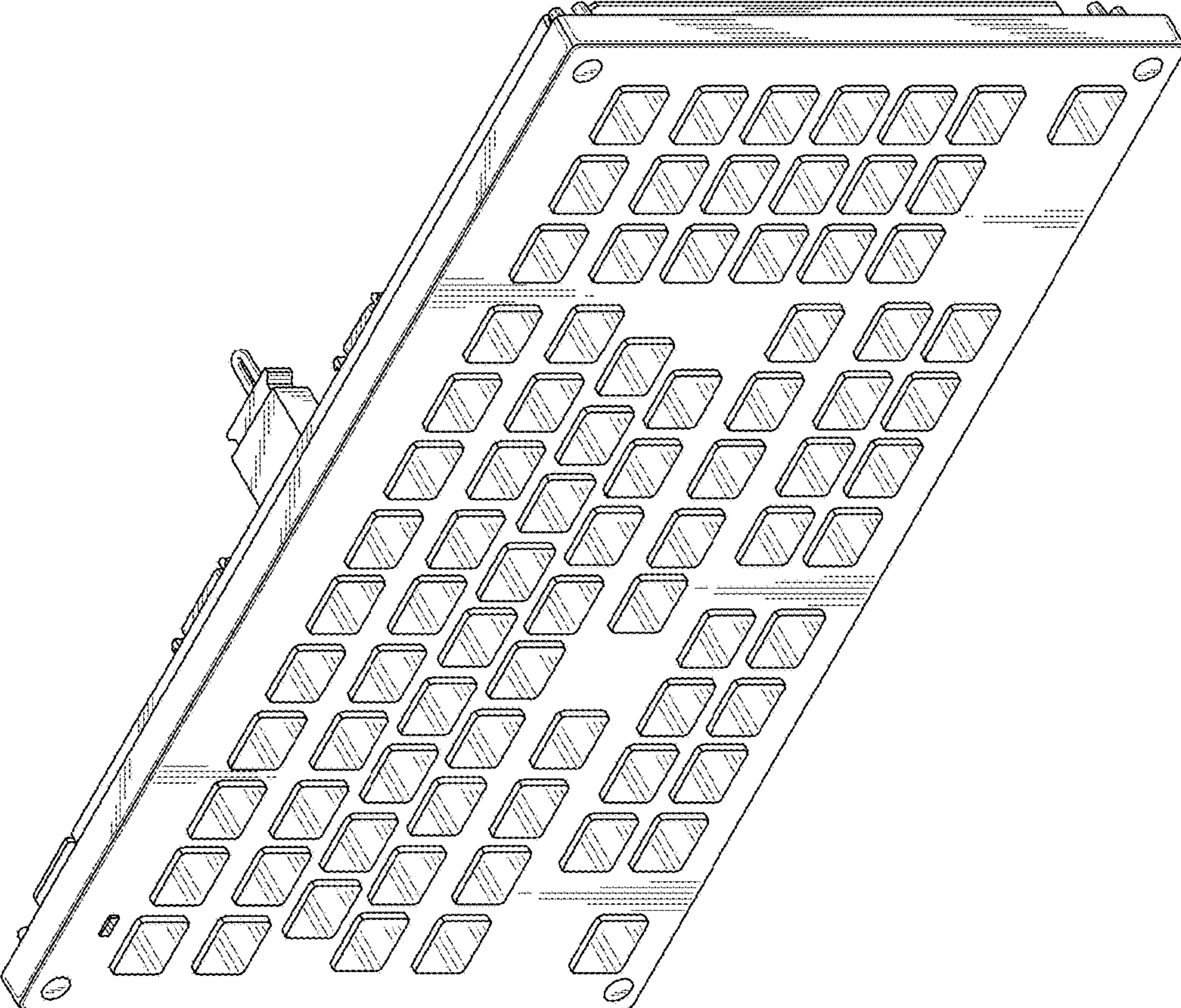


FIG. 2

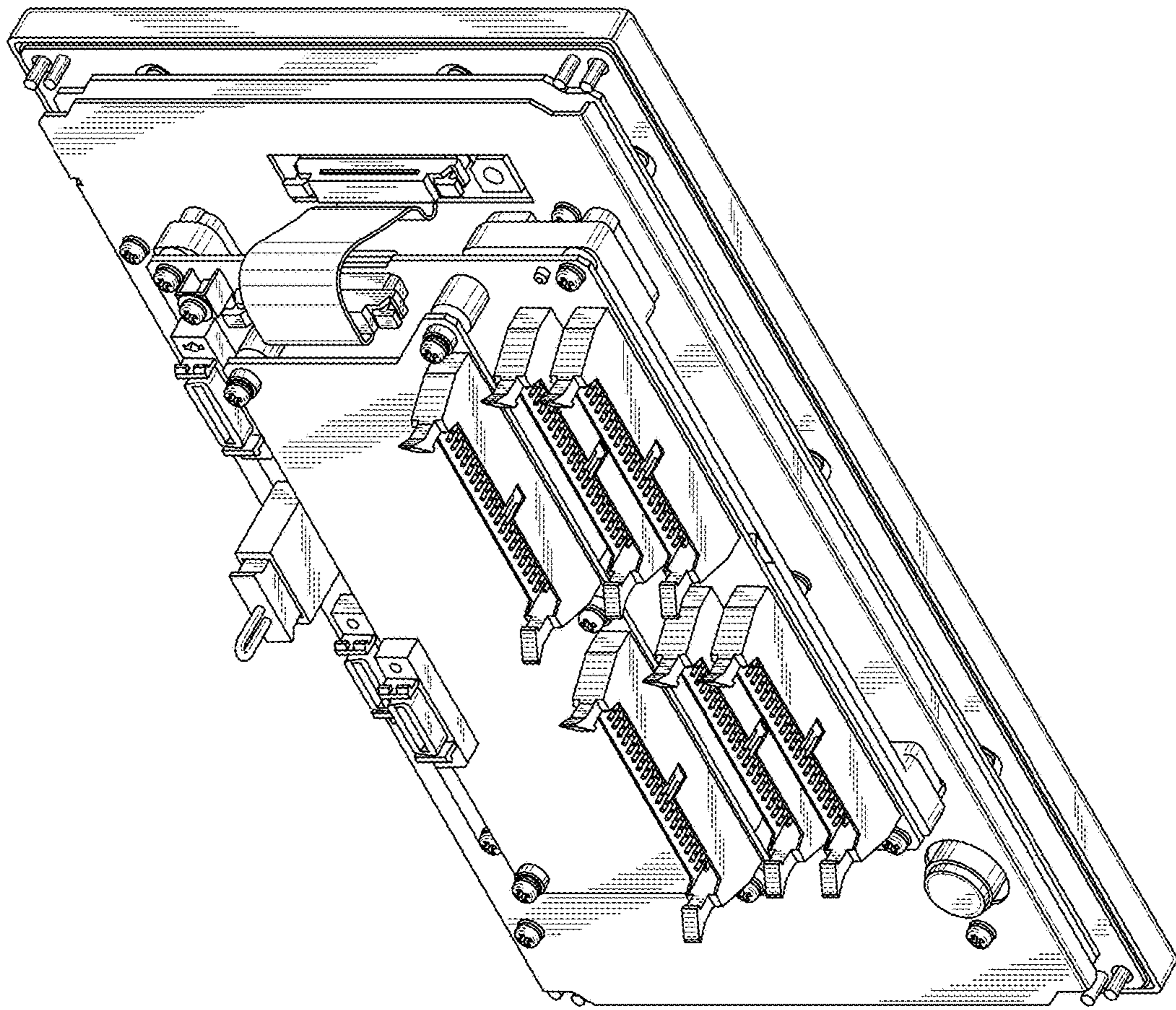


FIG. 3

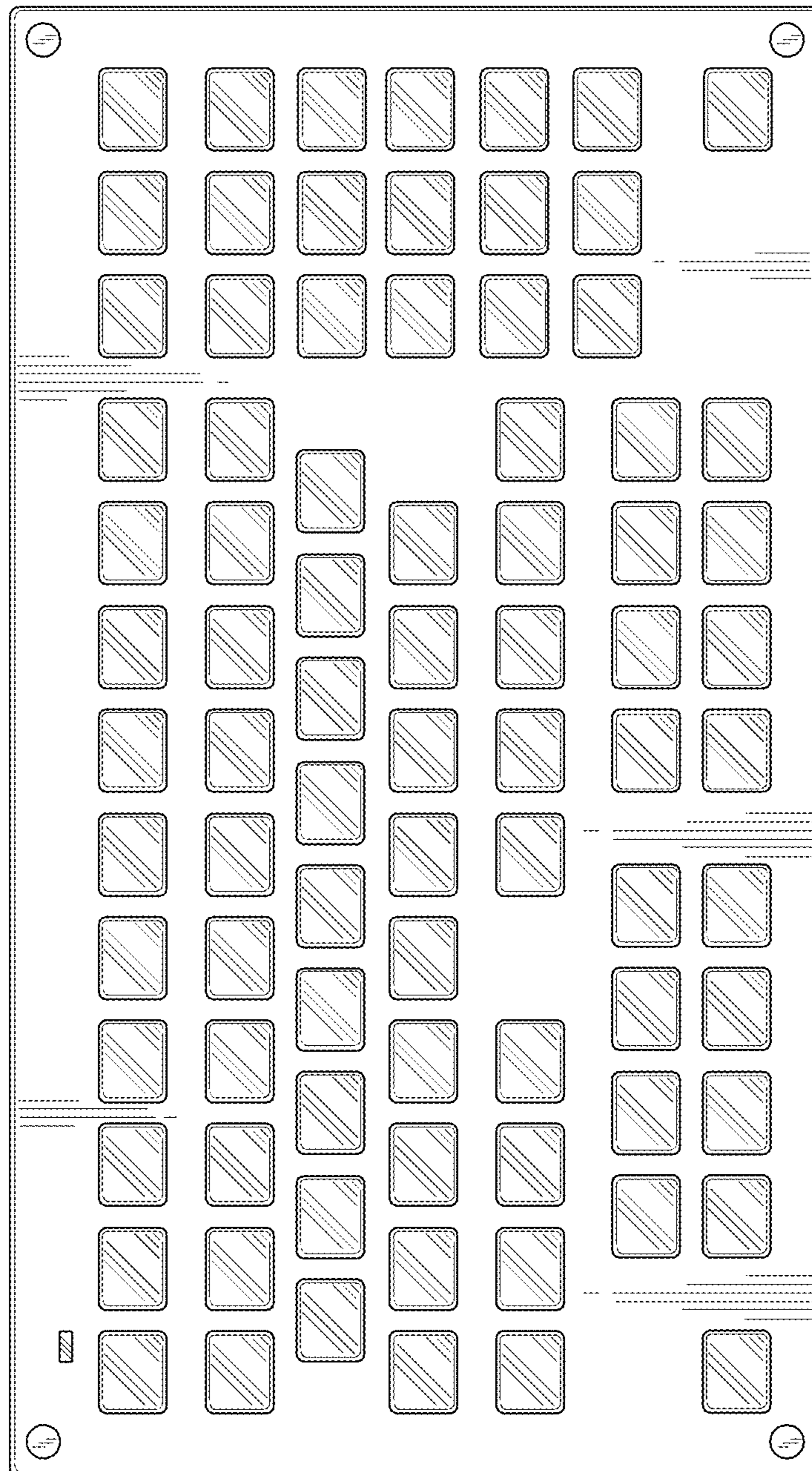


FIG. 4

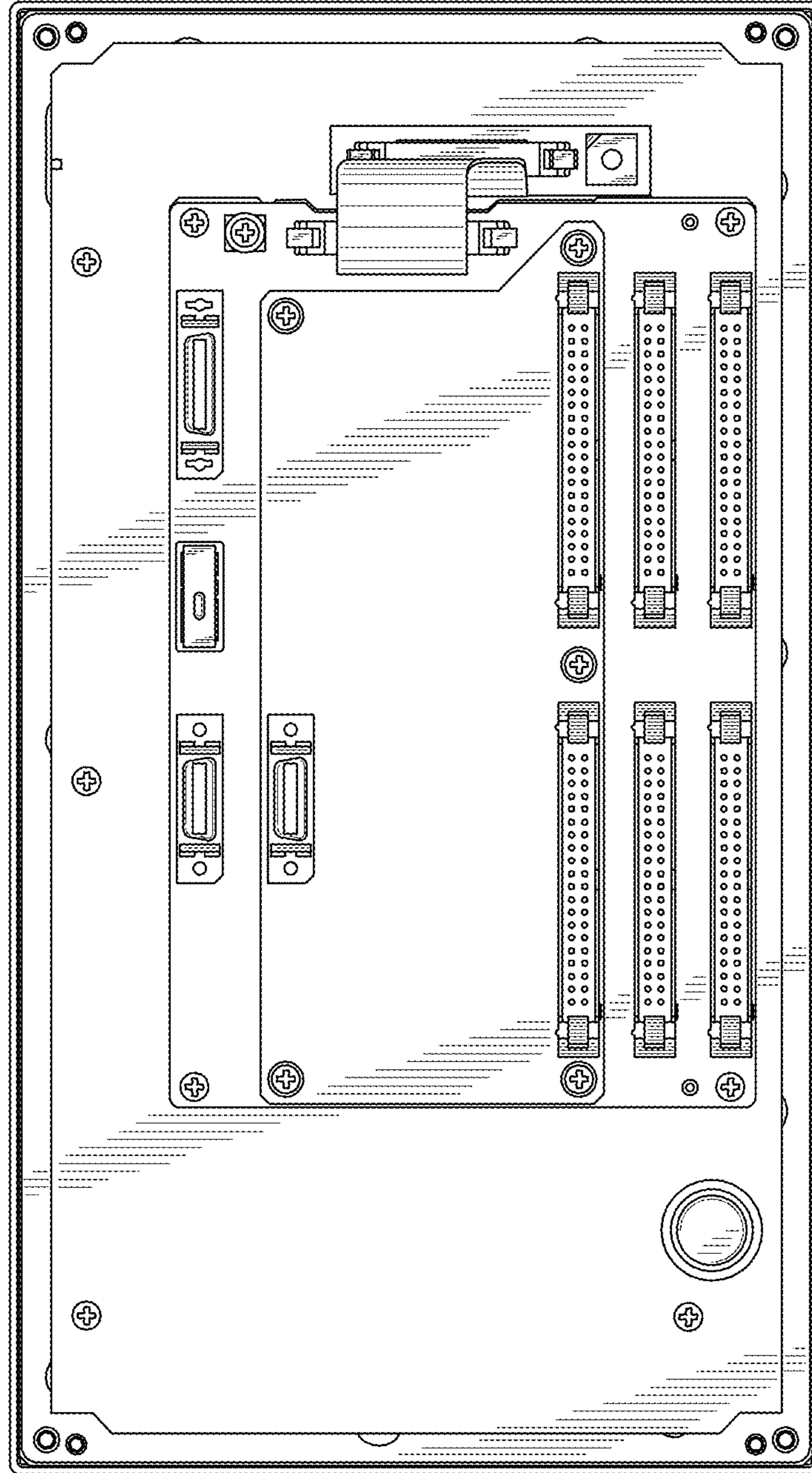


FIG. 5

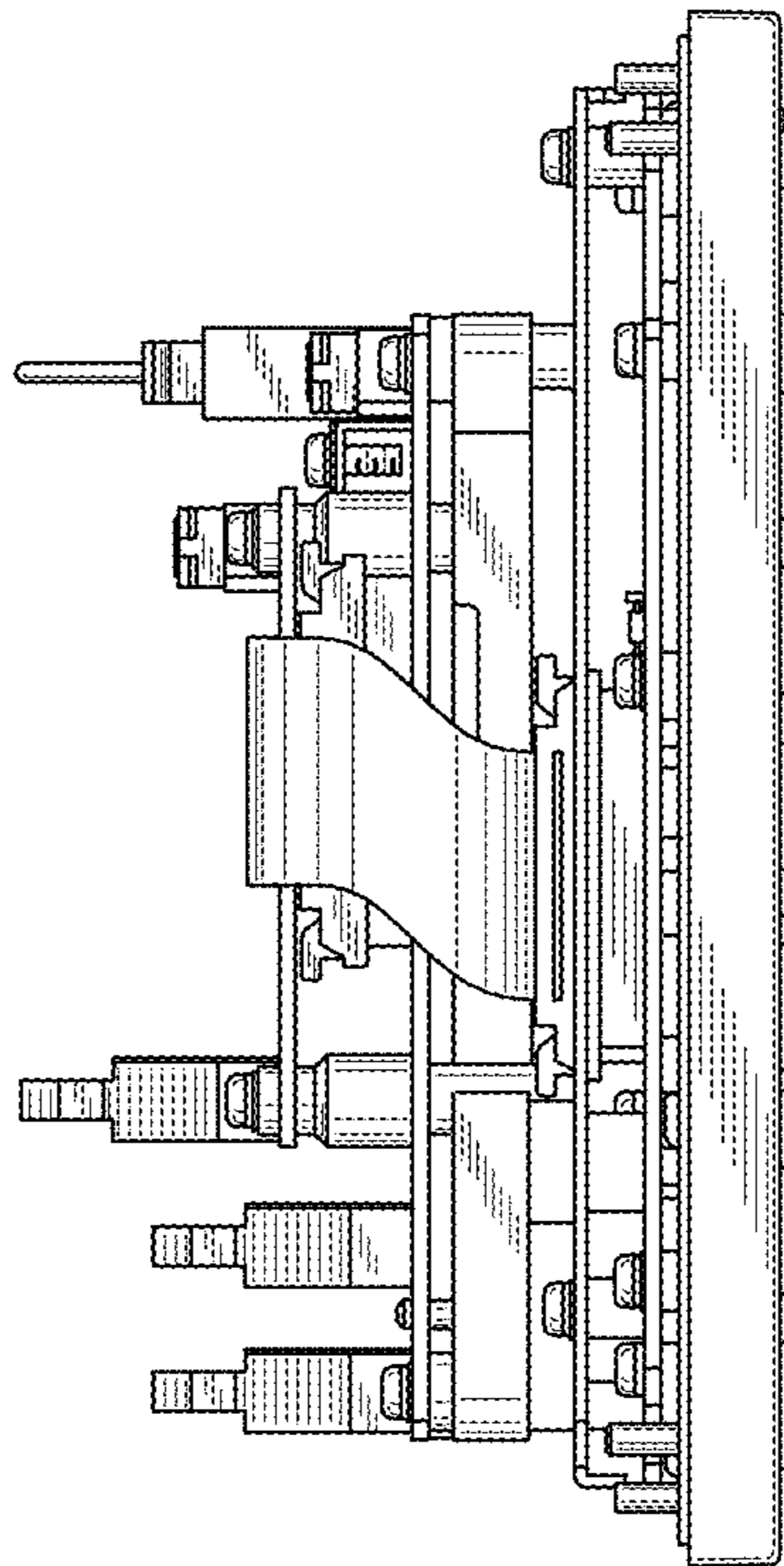


FIG. 6

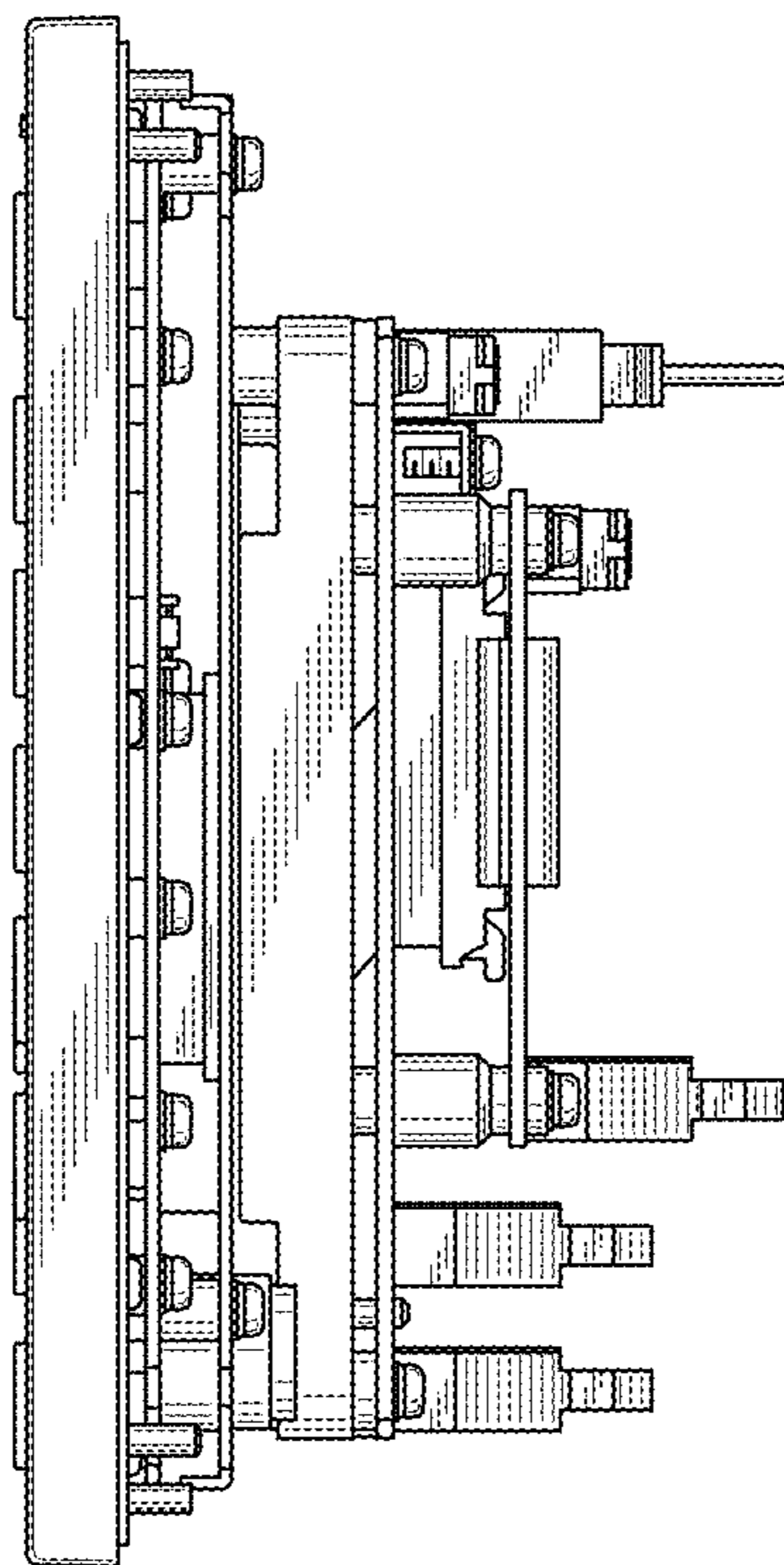


FIG. 7

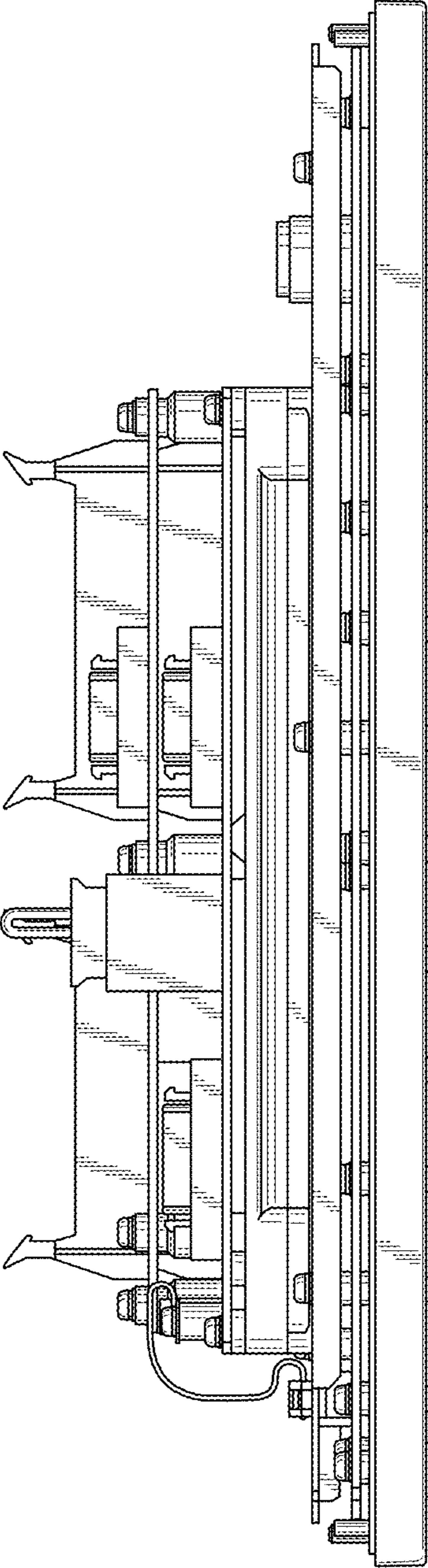


FIG. 8

