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(12) **United States Design Patent** (10) **Patent No.:** **US D765,042 S**
Shimohama et al. (45) **Date of Patent:** **** Aug. 30, 2016**

(54) **DATA DISPLAY FOR NUMERICAL CONTROLLER**

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(**) Term: **14 Years**

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

(58) **Field of Classification Search**
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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	.....	D13/164
4,524,414 A *	6/1985	Kiyokawa	.....	G05B 19/409 345/168
D280,406 S *	9/1985	Walker	.....	D13/164
4,916,639 A *	4/1990	Yoneda	.....	G05B 19/409 700/180

D334,542 S *	4/1993	Lowe	.....	D10/104.1
5,724,069 A *	3/1998	Chen	.....	G06F 3/0489 345/172
D406,830 S *	3/1999	Herbstritt	.....	D10/103
7,092,248 B2 *	8/2006	Shu	G06F 1/1601 312/223.1
D559,792 S *	1/2008	Gemme	D13/162
D573,108 S *	7/2008	Pan	D13/164

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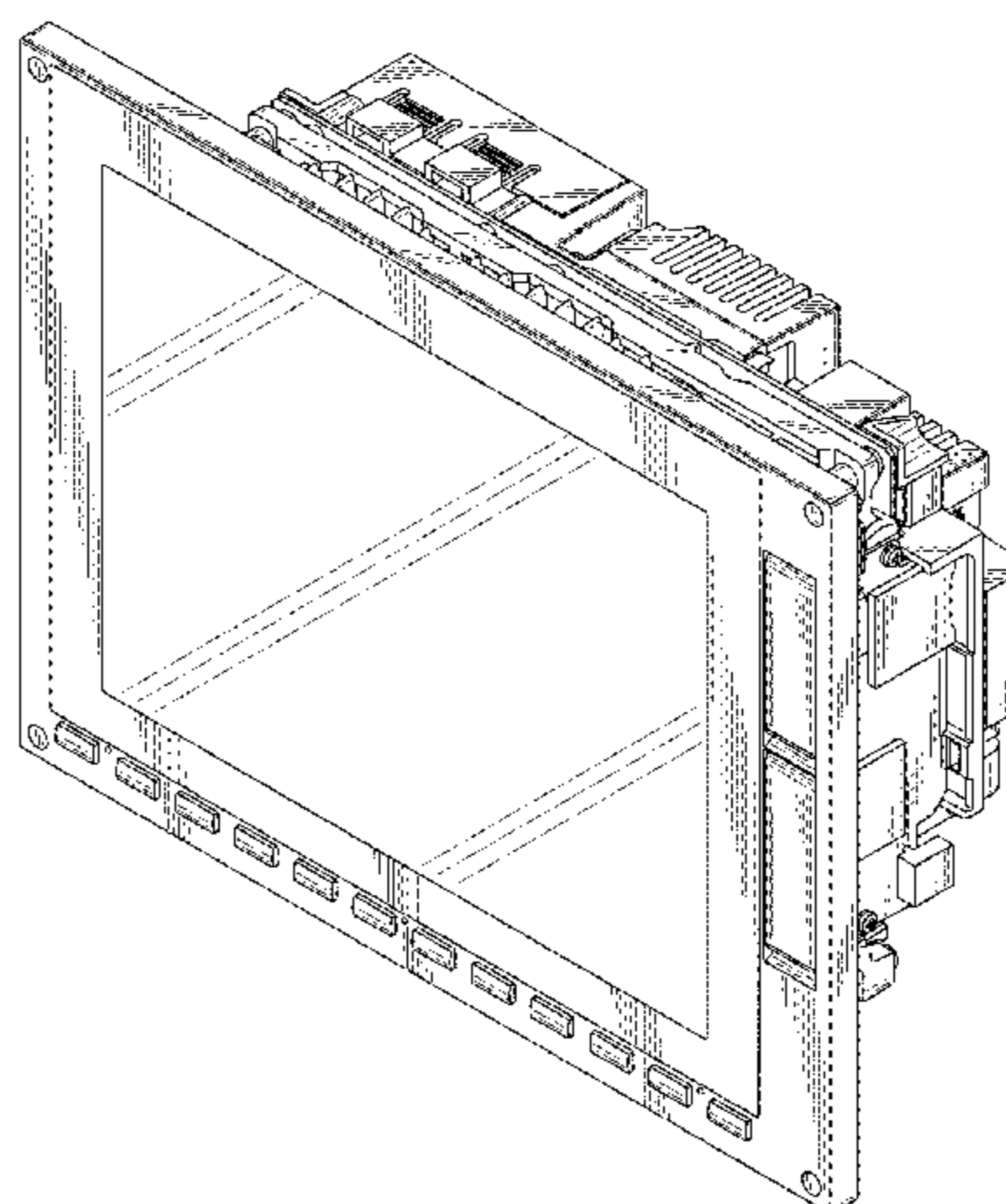
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front perspective view of a data display 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;
 FIG. 8 is a bottom plan view thereof;
 FIG. 9 is a front perspective view thereof;
 FIG. 10 is a rear 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 front perspective view thereof;
 FIG. 18 is a rear 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; and,
 FIG. 24 is a bottom plan view thereof.

1 Claim, 24 Drawing Sheets



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(56)

References Cited

U.S. PATENT DOCUMENTS

7,499,029 B2 *	3/2009	Hara	G06F 1/1616 345/168	2012/0109343 A1 *	5/2012	Shah	G05B 19/409 700/83
7,978,465 B2 *	7/2011	Osaka	G05B 19/05 248/917	2012/0268240 A1 *	10/2012	Frerking	G05B 19/409 340/5.51
D753,607 S *	4/2016	Lee	D13/162	2015/0205287 A1 *	7/2015	Igarashi	B23Q 1/0045 318/591
2003/0040884 A1 *	2/2003	Walther	G05B 19/409 702/150	2016/0048121 A1 *	2/2016	Shinohara	G05B 19/409 700/179
2010/0175012 A1 *	7/2010	Allstrom	G05B 19/0428 715/771	2016/0113130 A1 *	4/2016	Le	G02F 1/0105 361/679.01

* cited by examiner

FIG. 1

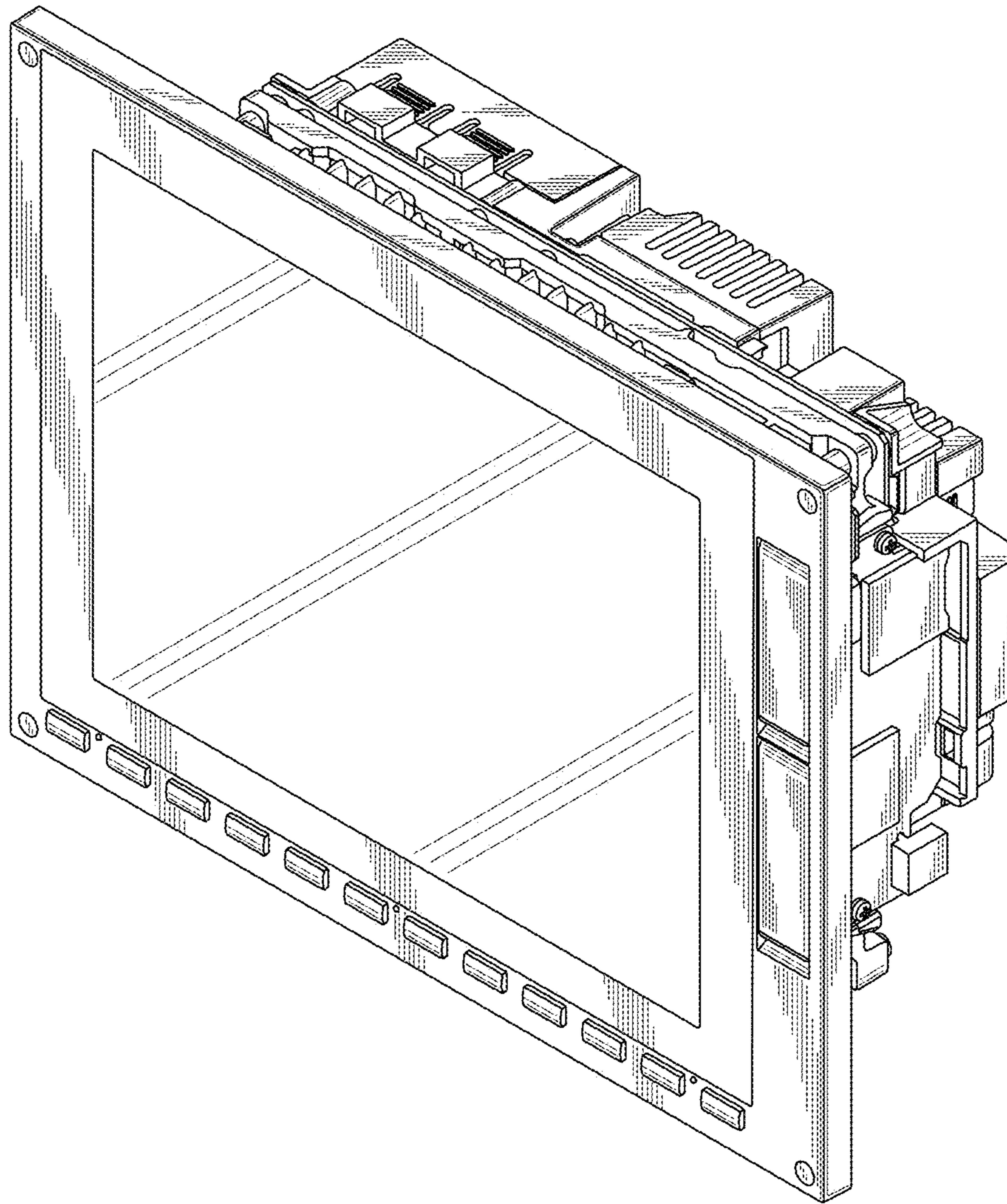


FIG. 2

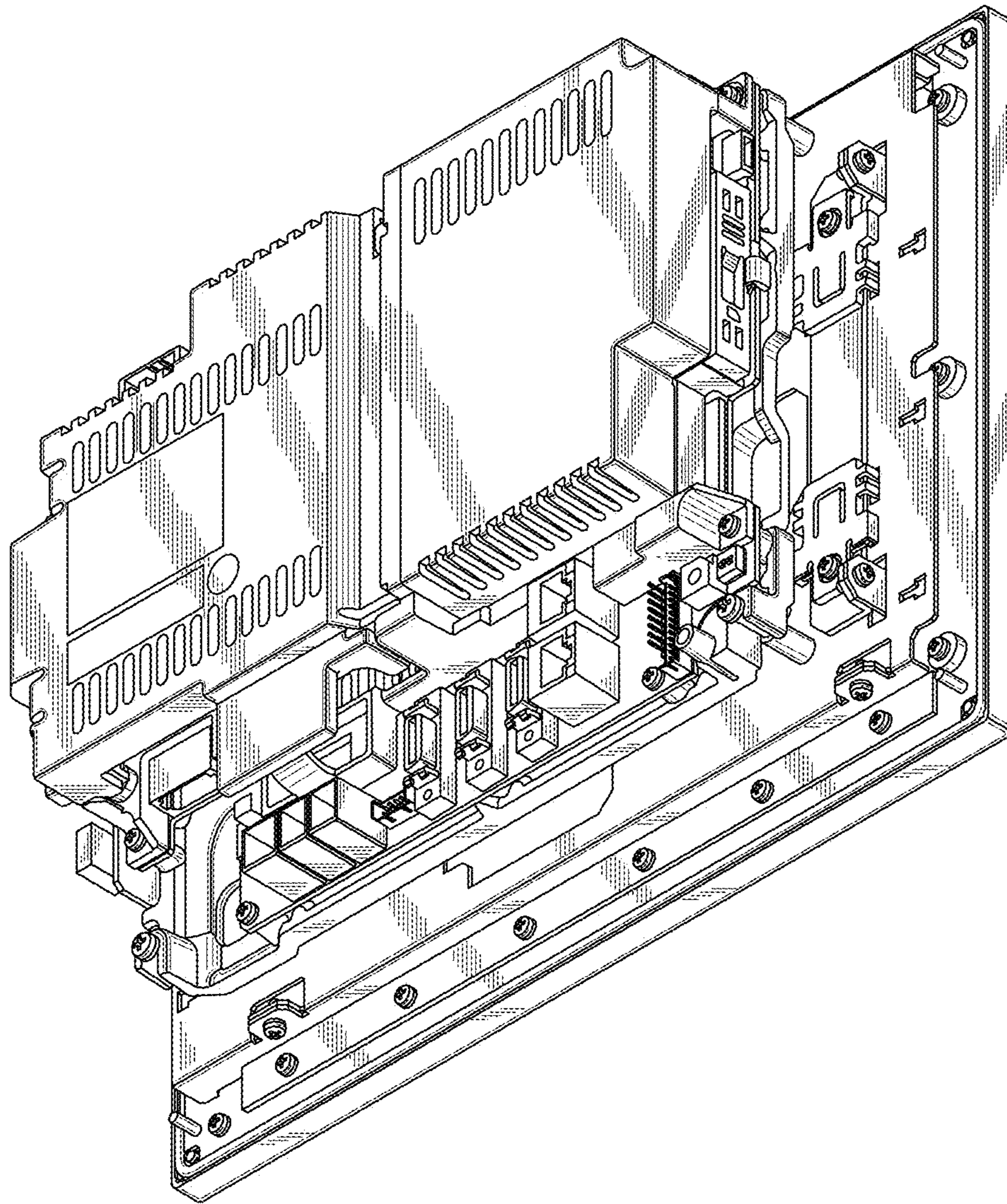


FIG. 3

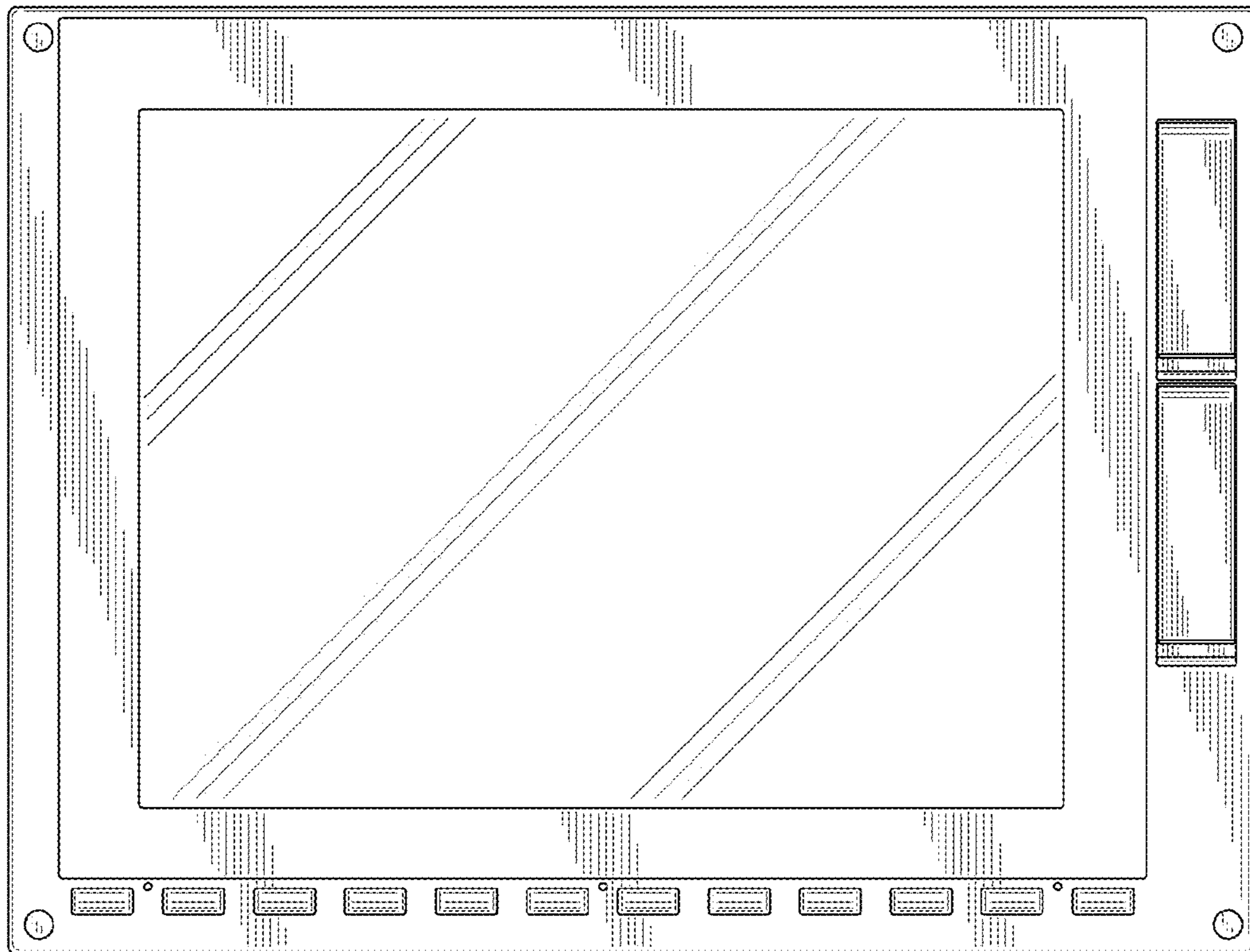


FIG. 4

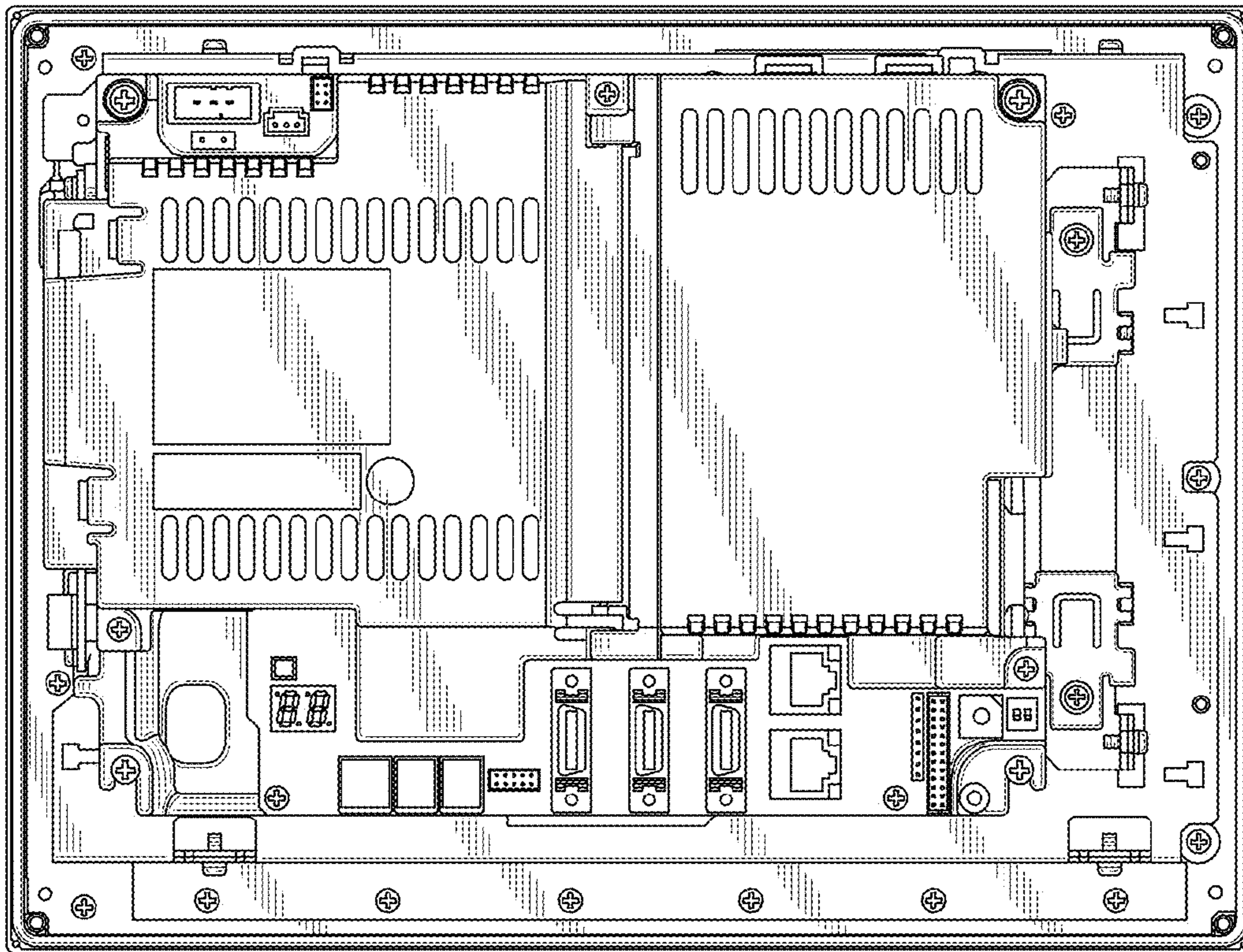


FIG. 5

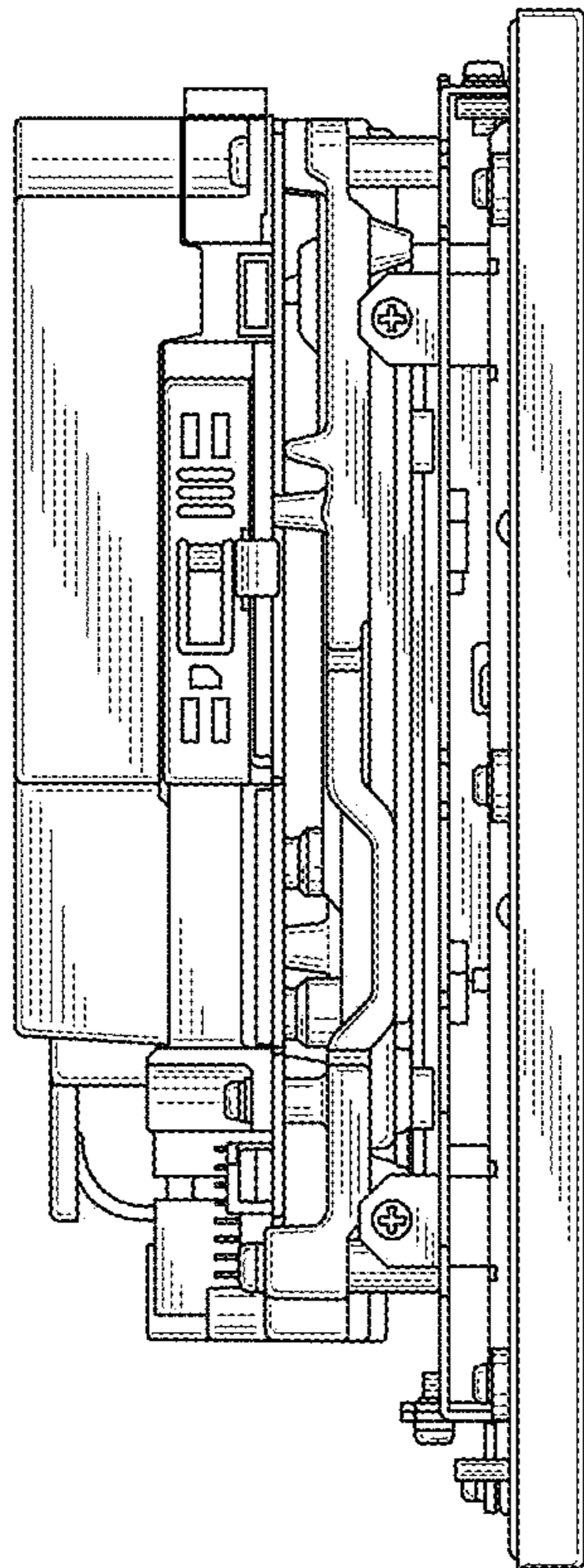


FIG. 6

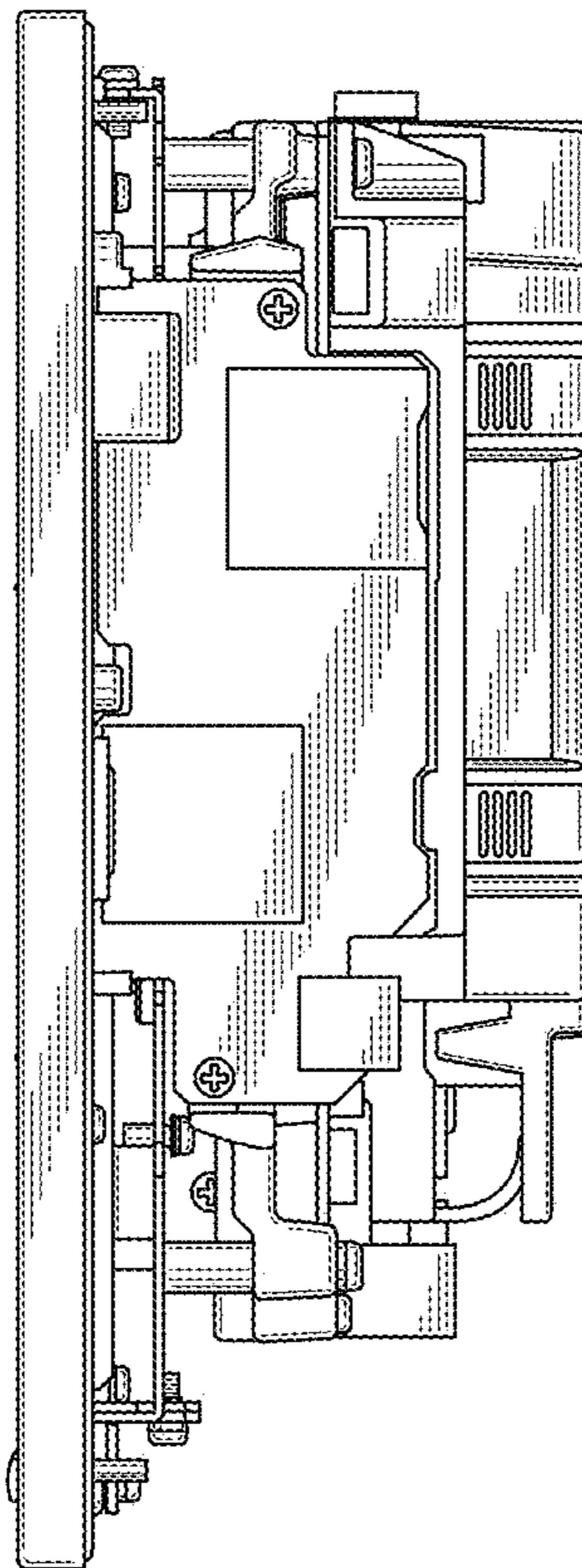


FIG. 7

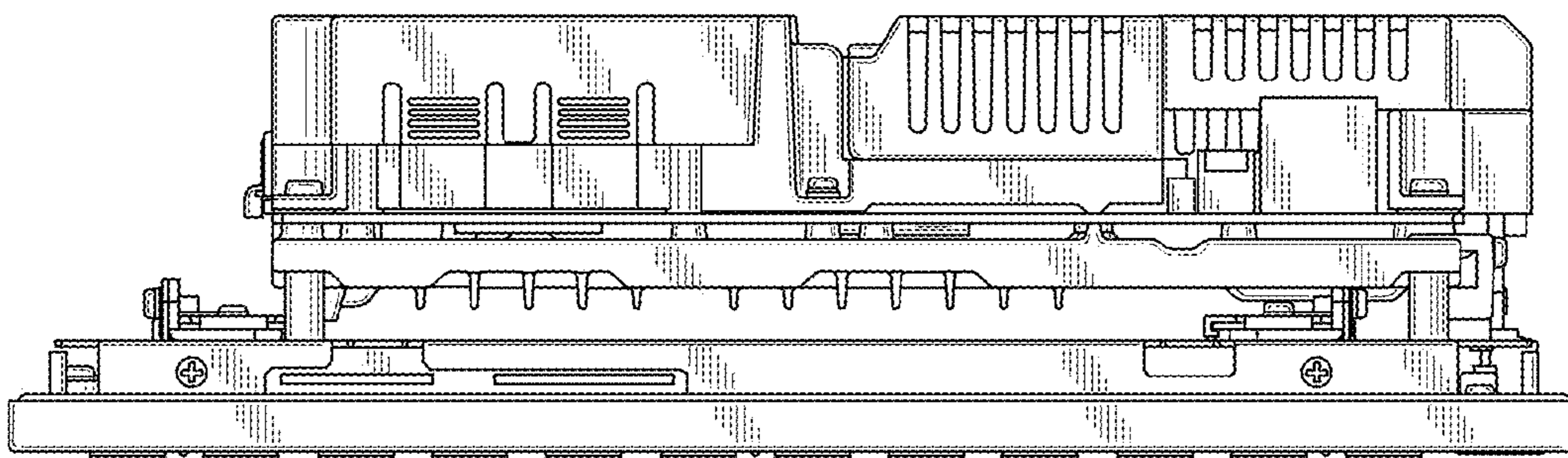


FIG. 8

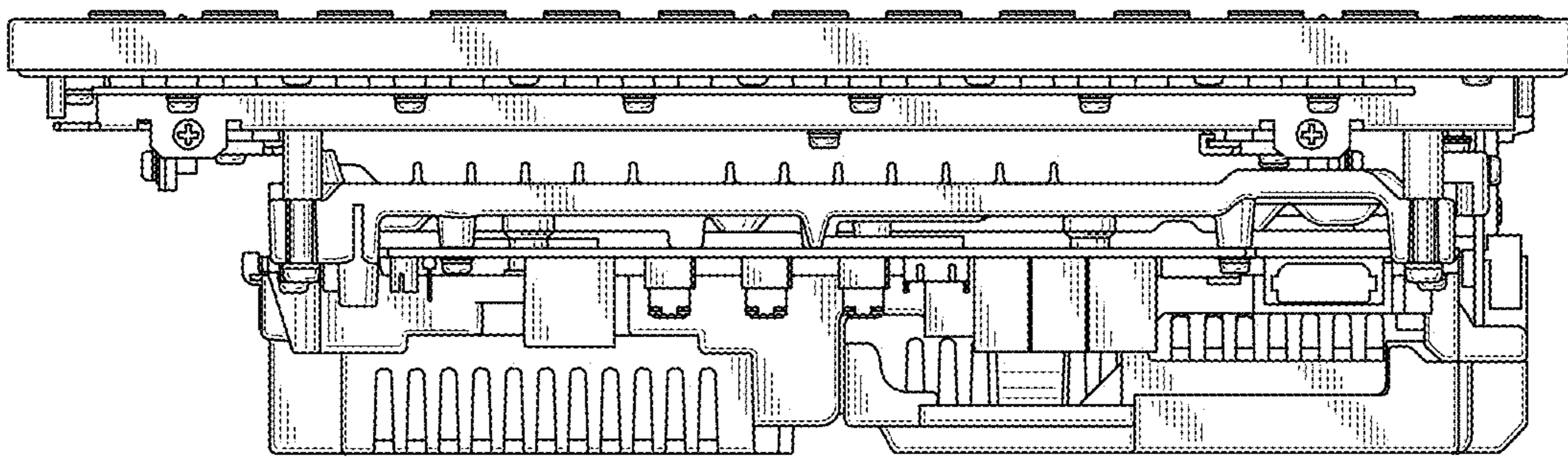


FIG. 9

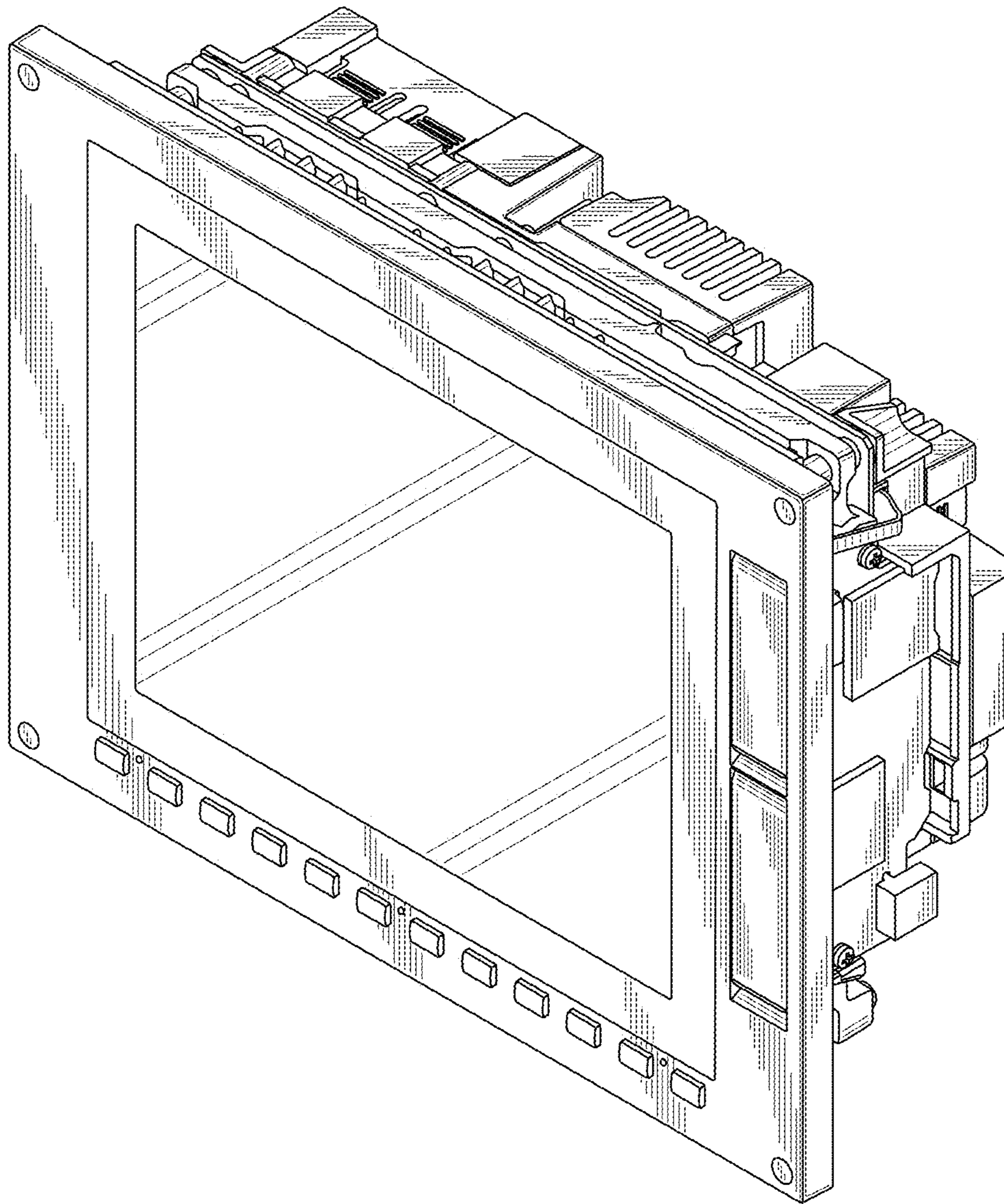


FIG. 10

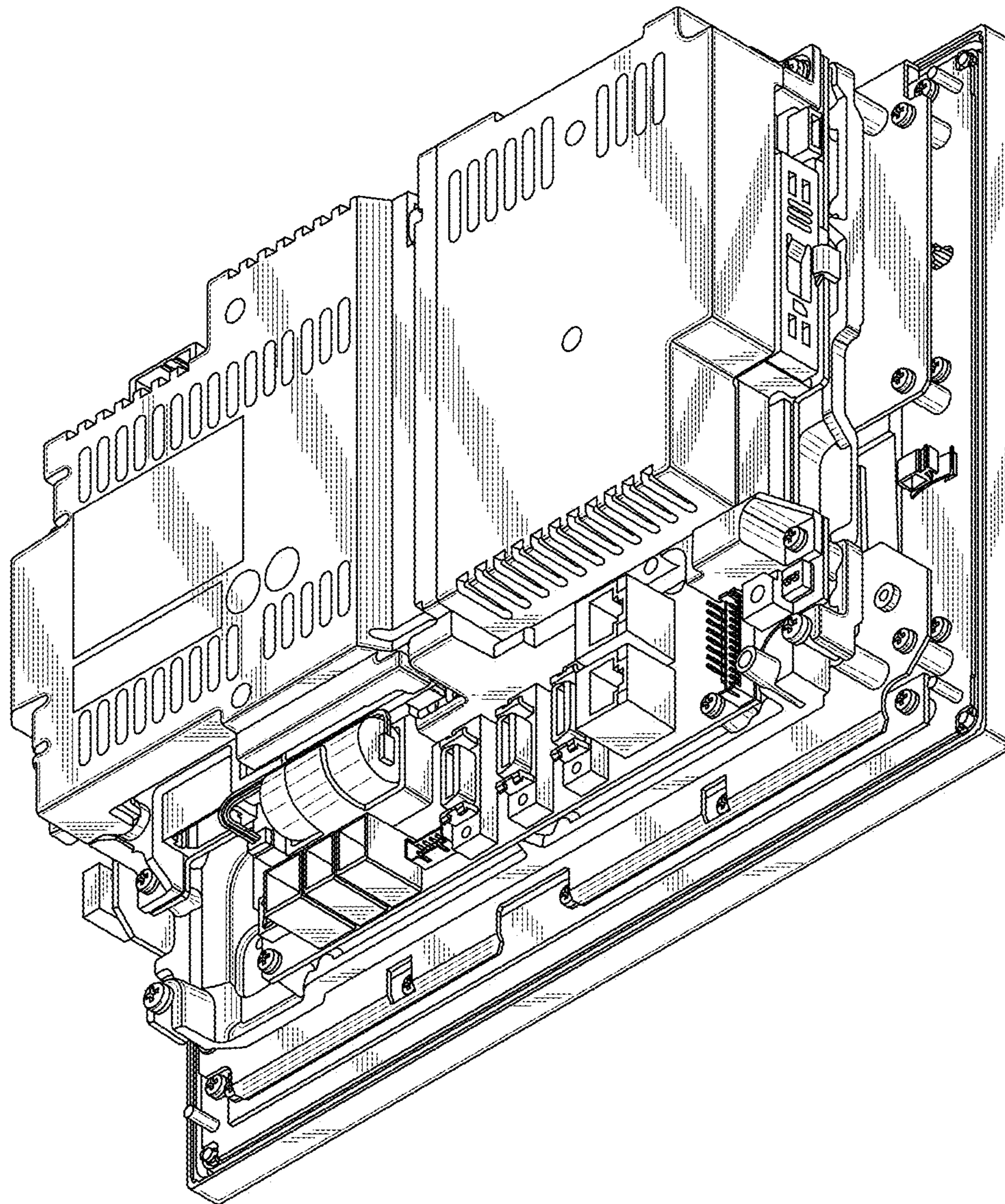


FIG. 11

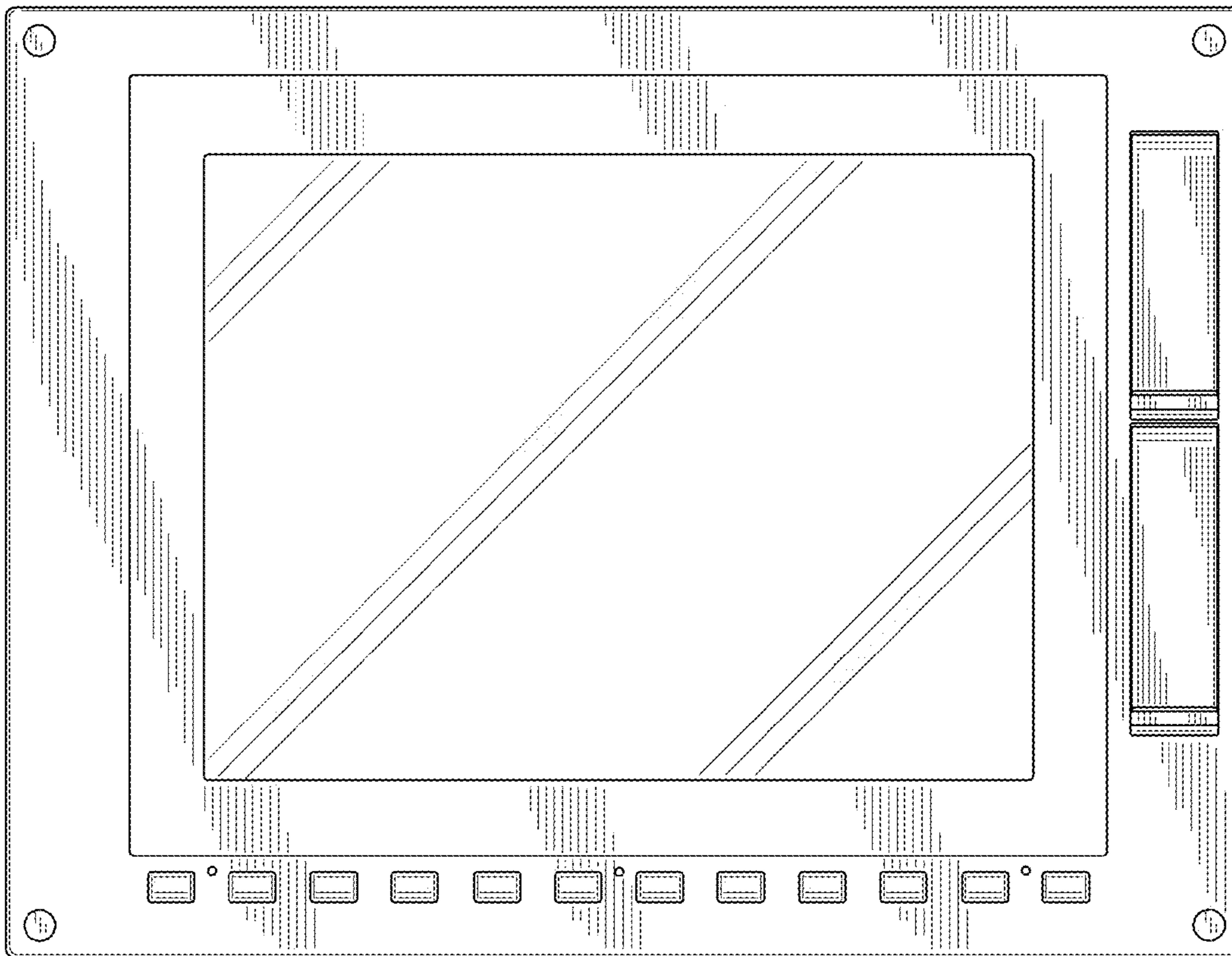


FIG. 12

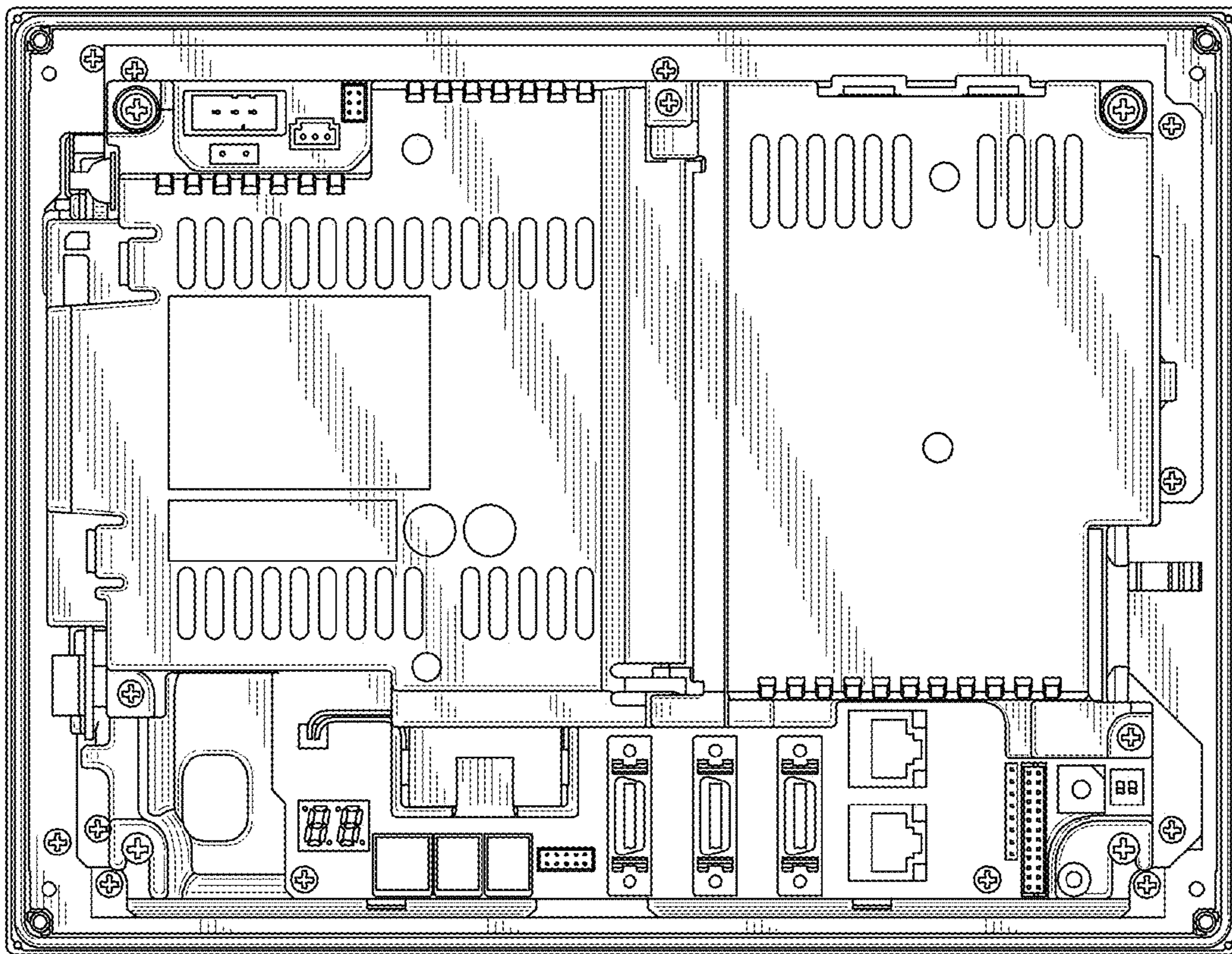


FIG. 13

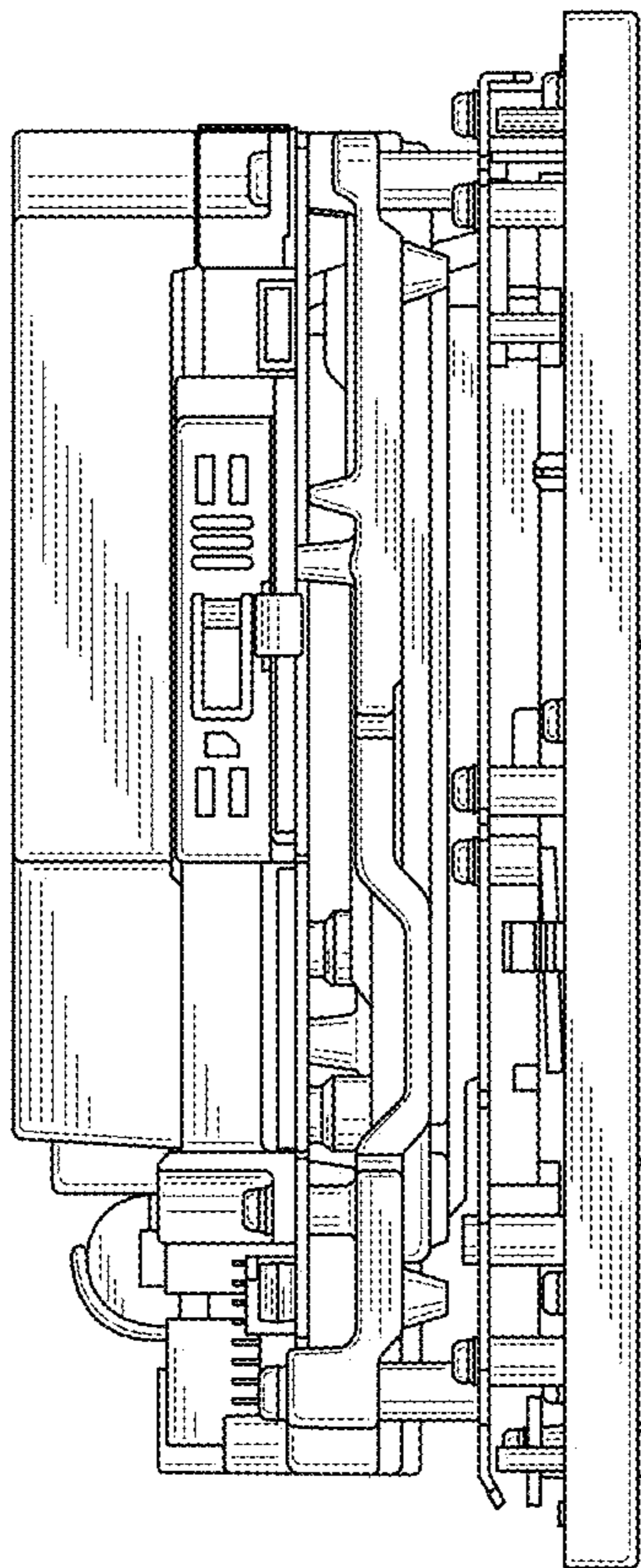


FIG. 14

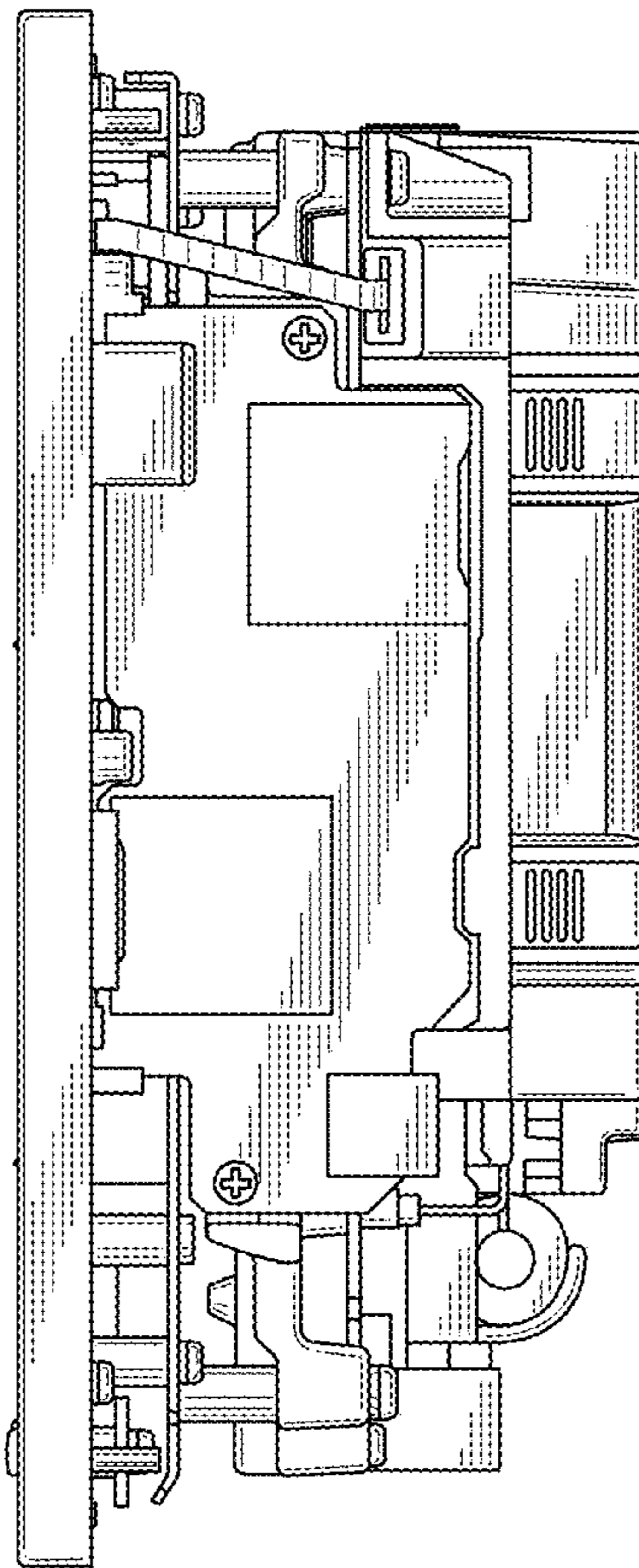


FIG. 15

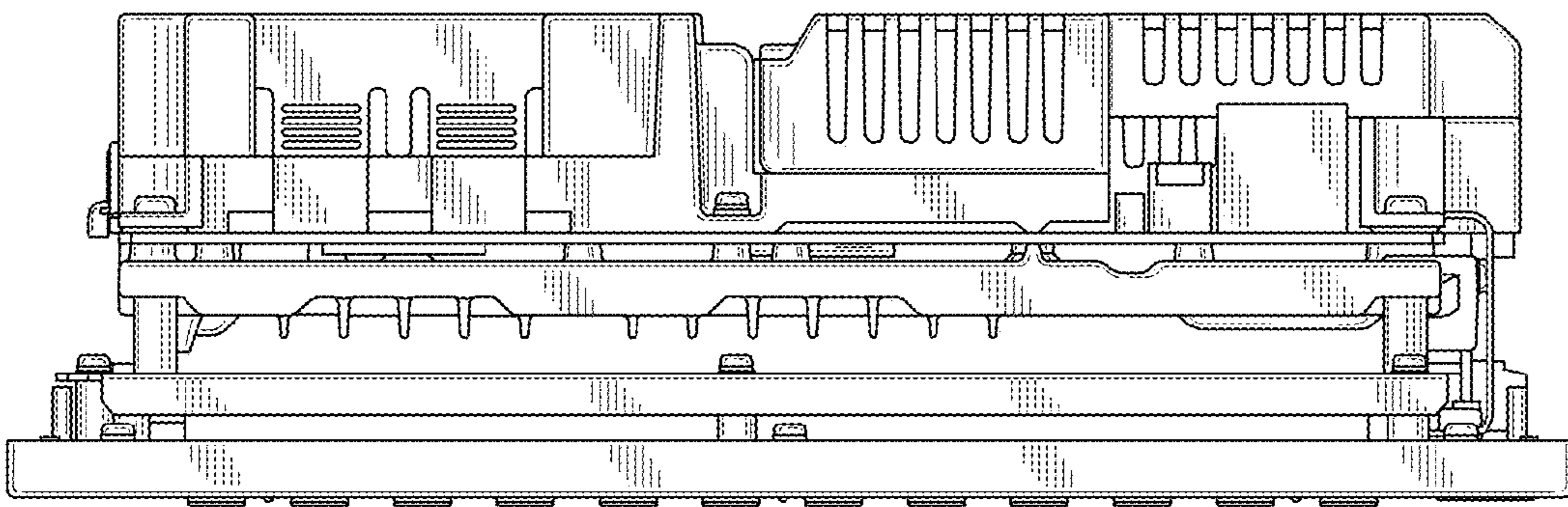


FIG. 16

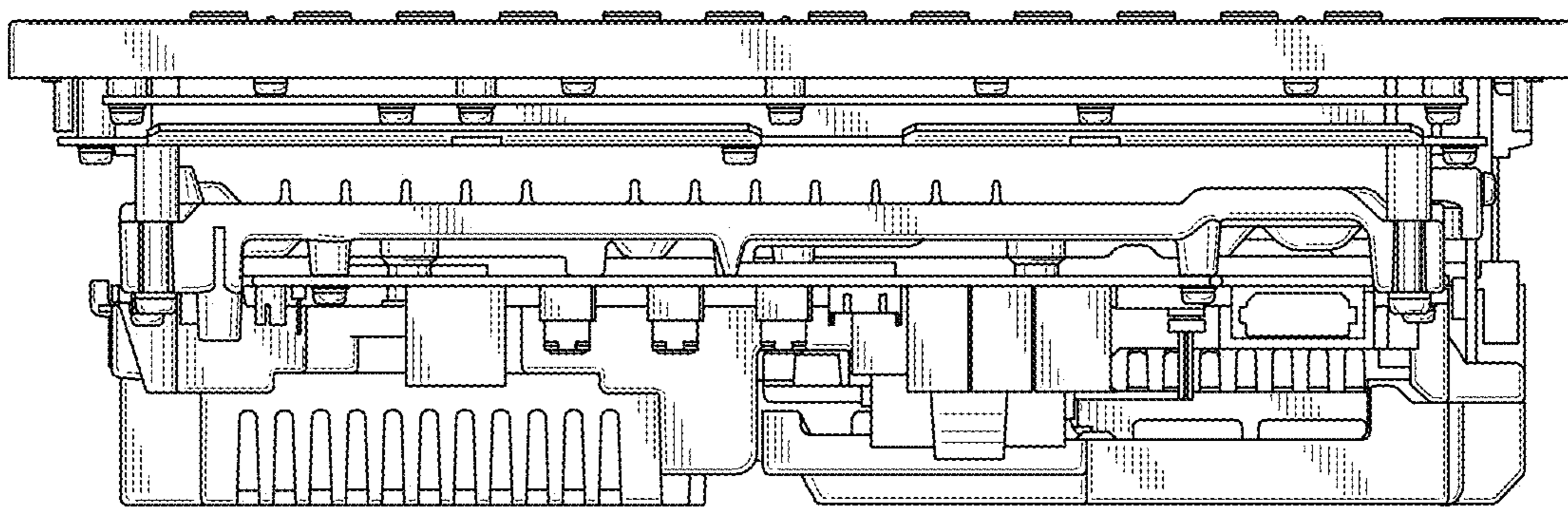


FIG. 17

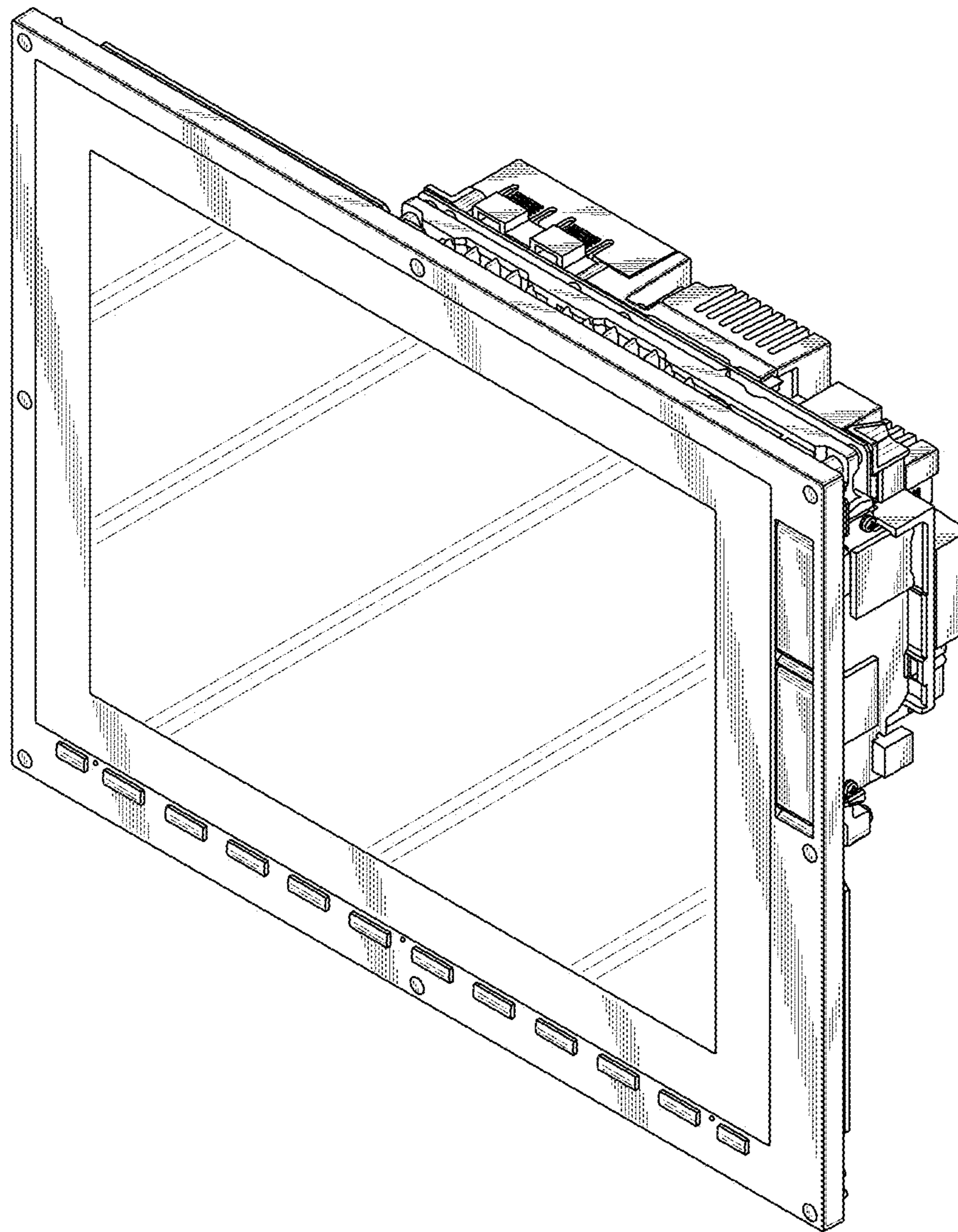


FIG. 18

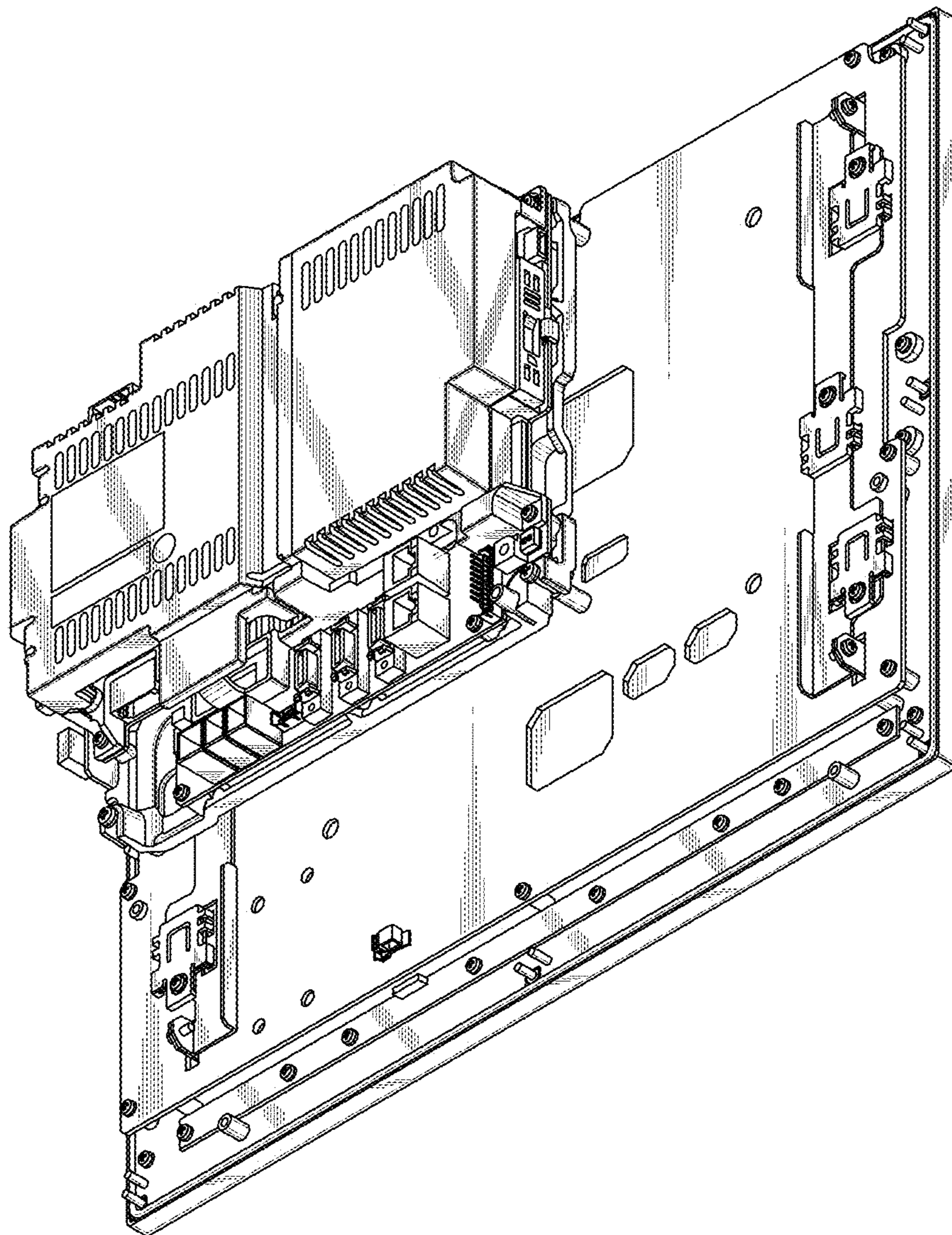


FIG. 19

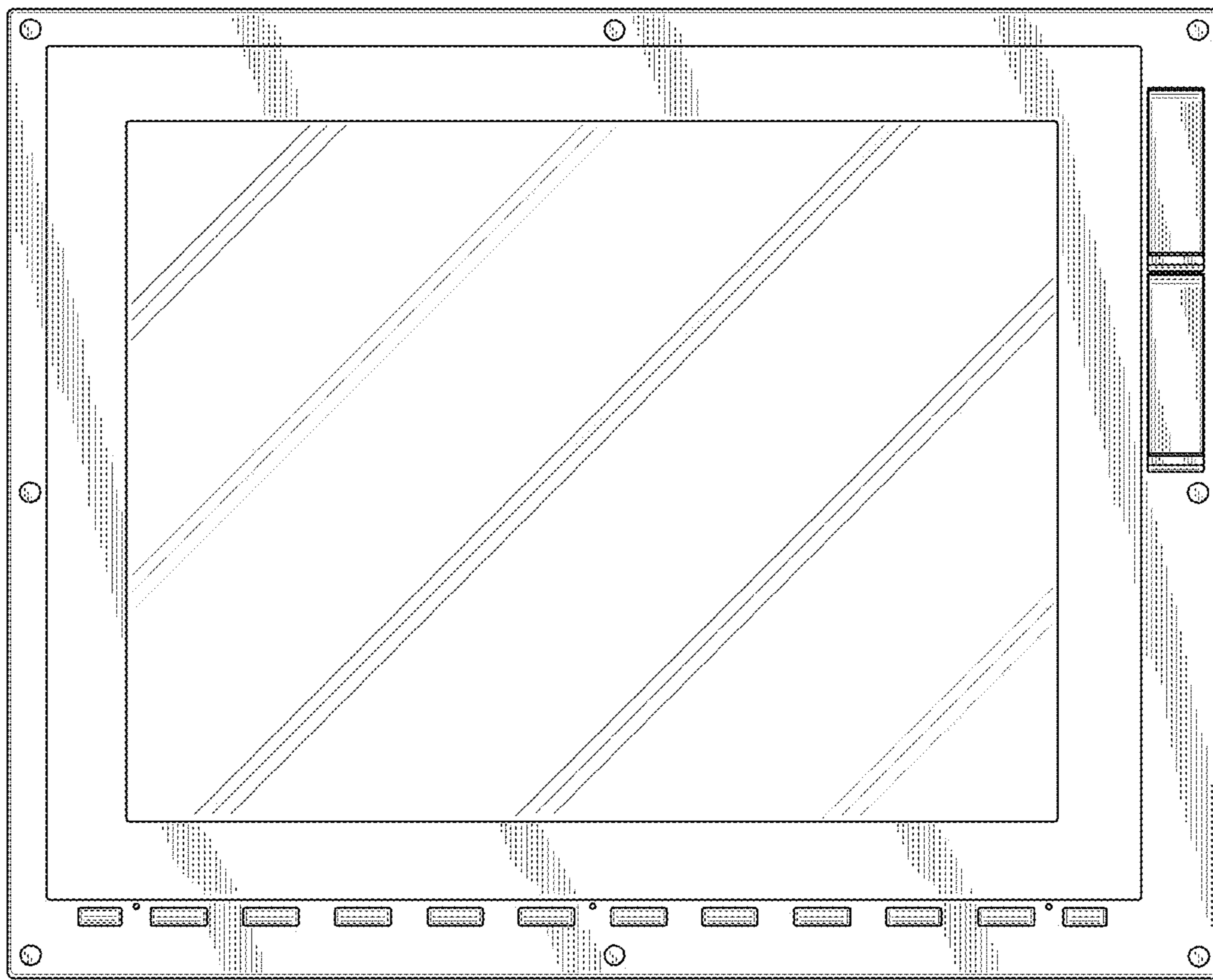


FIG. 20

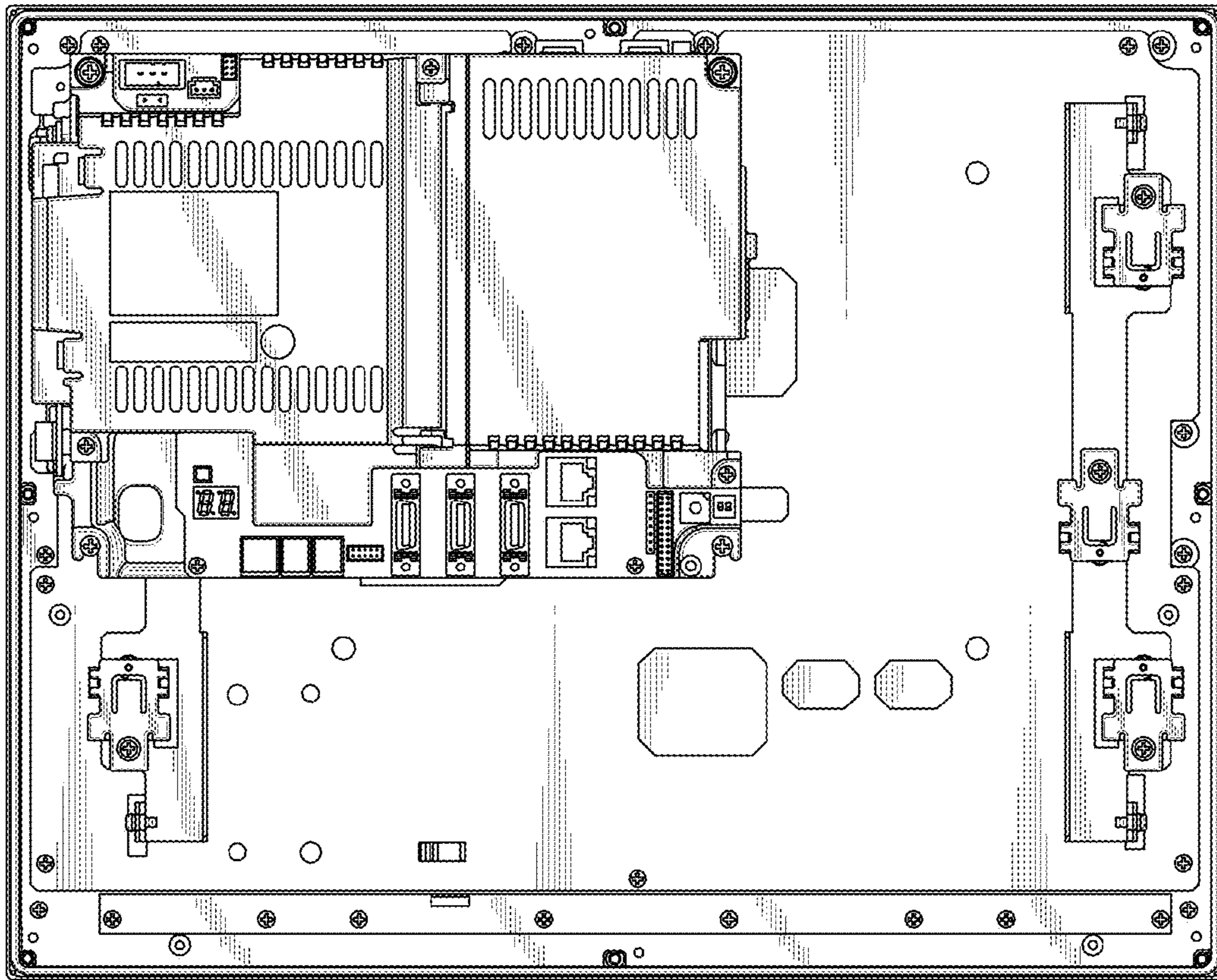


FIG. 21

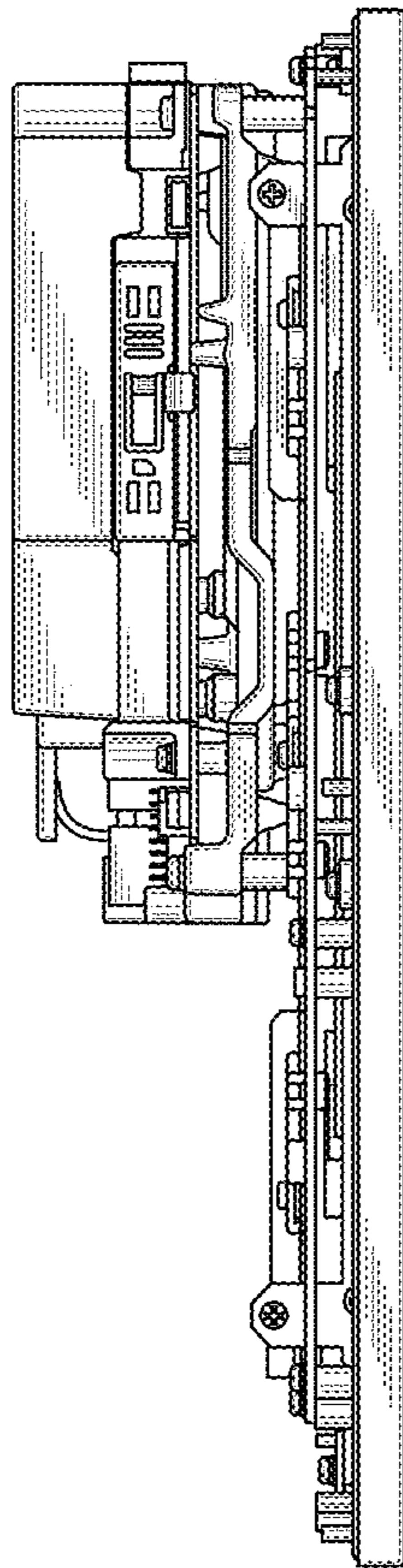


FIG. 22

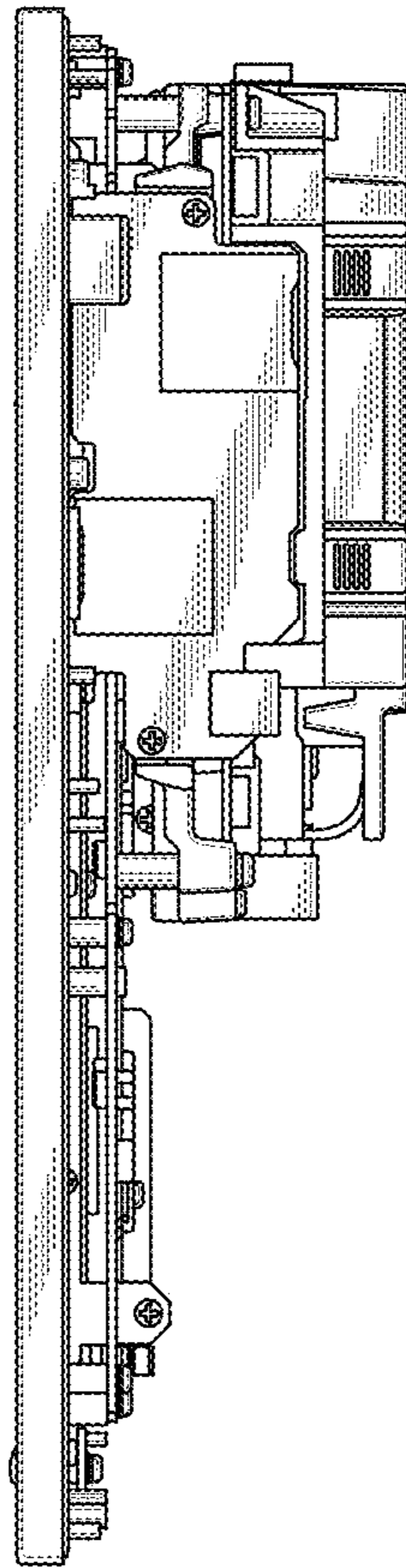


FIG. 23

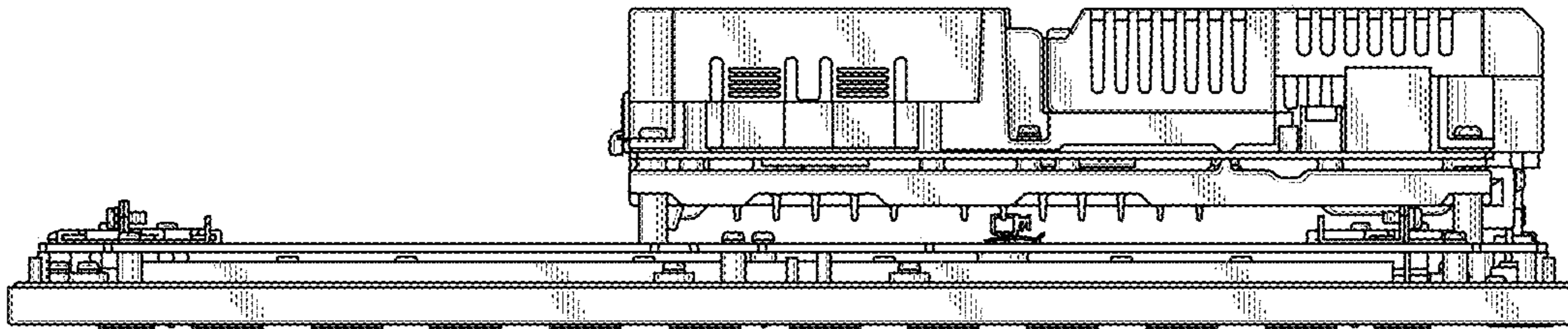


FIG. 24

