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

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(54) **CONVECTION COOLED FREQUENCY CONVERTER**

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(73) Assignee: **Siemens Aktiengesellschaft**, München (DE)

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

(21) Appl. No.: **29/345,261**

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**Related U.S. Application Data**

(62) Division of application No. 29/277,307, filed on Feb. 21, 2007, now Pat. No. Des. 606,017.

(30) **Foreign Application Priority Data**

Aug. 21, 2006 (EM) ..... 000585112

(51) **LOC (9) Cl.** ..... **13-02**

(52) **U.S. Cl.** ..... **D13/110**

(58) **Field of Classification Search** ..... D13/110,  
D13/123, 162, 182, 184, 199; 307/150, 151;  
361/704, 707, 717-720, 752, 790; 363/35,  
363/37, 141, 144

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D365,082	S	*	12/1995	Cook et al.	.....	D13/110
5,835,350	A	*	11/1998	Stevens	.....	361/704
D403,301	S	*	12/1998	Lehmann et al.	.....	D13/110
6,091,604	A	*	7/2000	Plougsgaard et al.	.....	361/707
D455,399	S	*	4/2002	Imamura et al.	.....	D13/110
6,459,586	B1	*	10/2002	Miller et al.	.....	361/719
D490,785	S	*	6/2004	Boylan et al.	.....	D13/182
D494,539	S	*	8/2004	Alcantar et al.	.....	D13/110
D510,320	S	*	10/2005	Tuomola et al.	.....	D13/110
D510,906	S	*	10/2005	Vinciarelli et al.	.....	D13/110

\* cited by examiner

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(57) **CLAIM**

The ornamental design for a convection cooled frequency converter, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevation view of a convection cooled frequency converter showing our new design; FIG. 2 is a rear elevational view thereof; FIG. 3 is a top plan view thereof; FIG. 4 is a bottom plan view thereof; FIG. 5 is a right side elevational view thereof; FIG. 6 is a left side elevational view thereof; and, FIG. 7 is a perspective view thereof. The broken lines shown represent unclaimed subject matter and form no part of the claimed design.

**1 Claim, 7 Drawing Sheets**

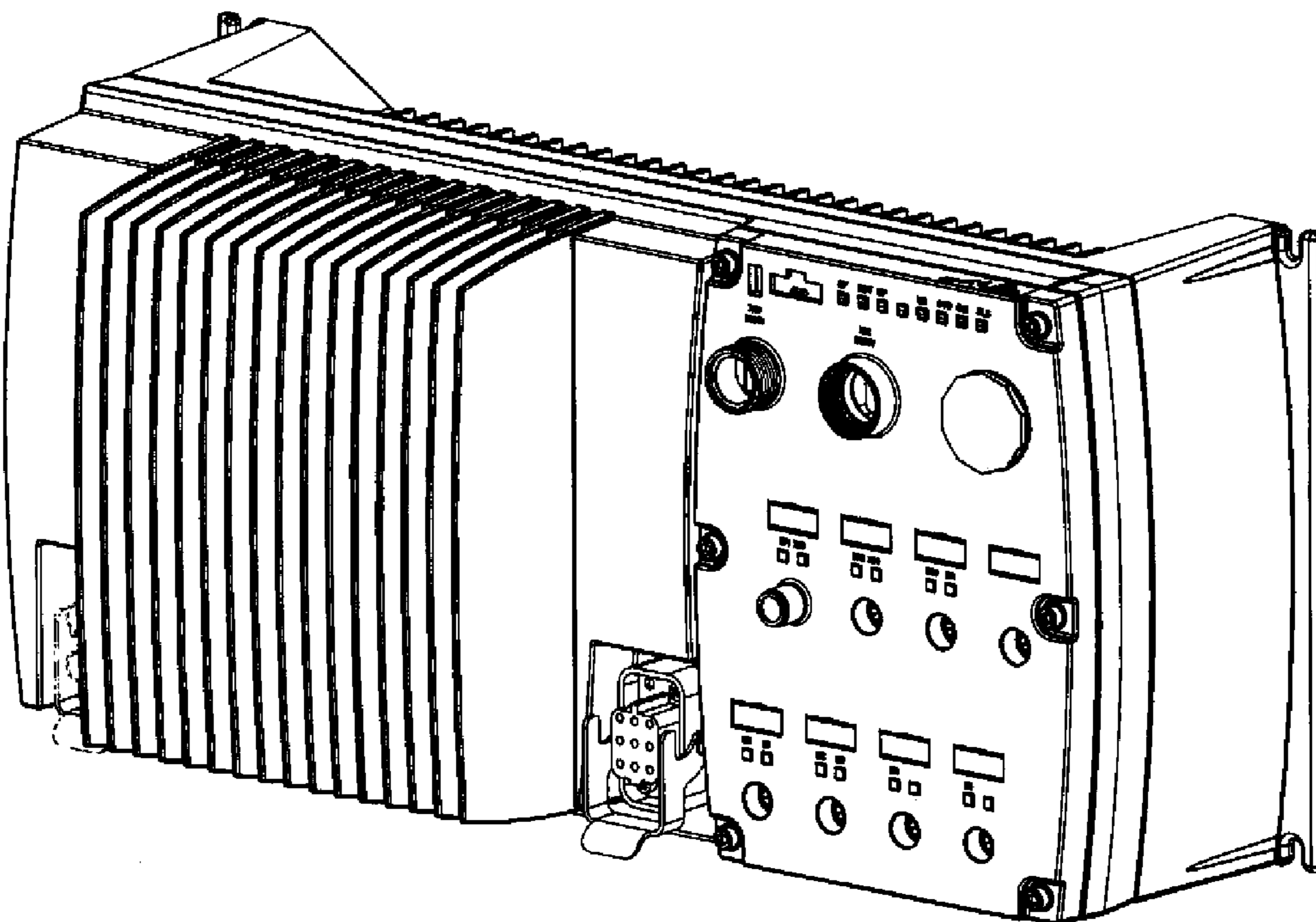


Fig. 1

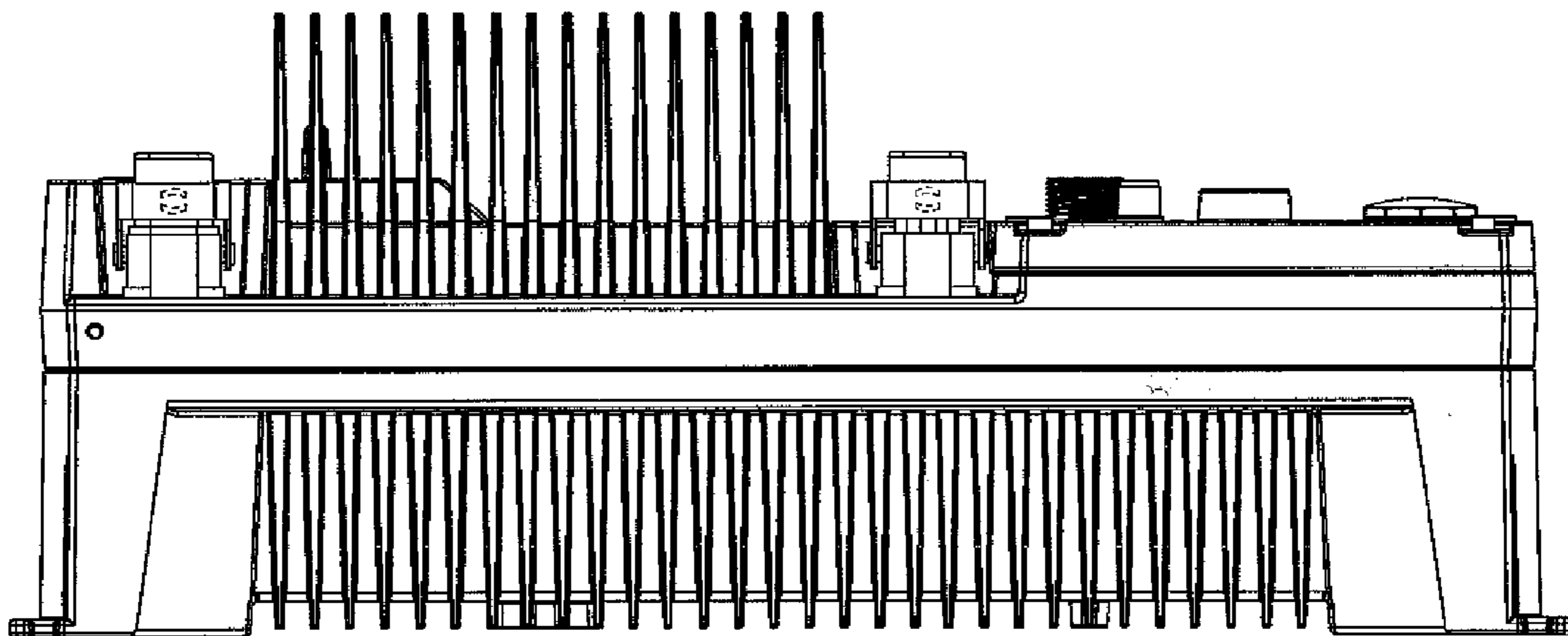


FIG 2

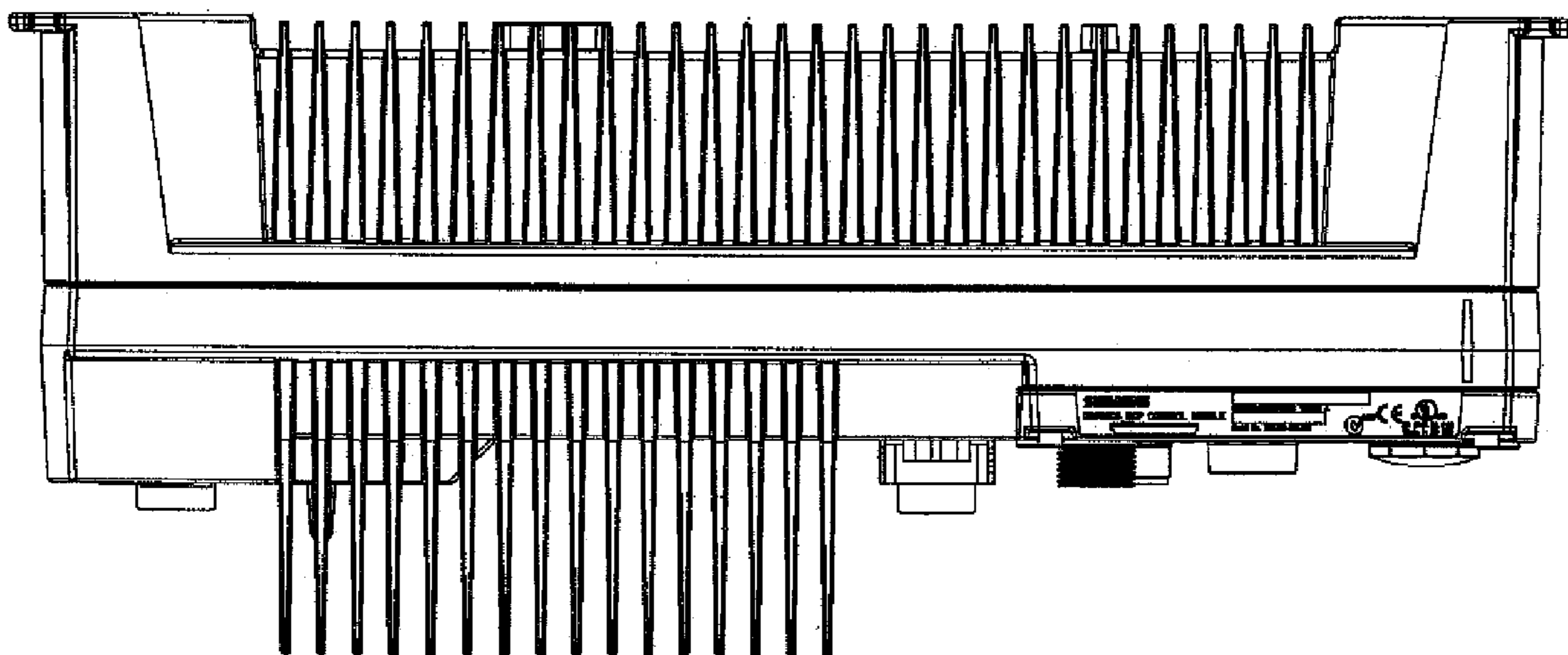


FIG 3

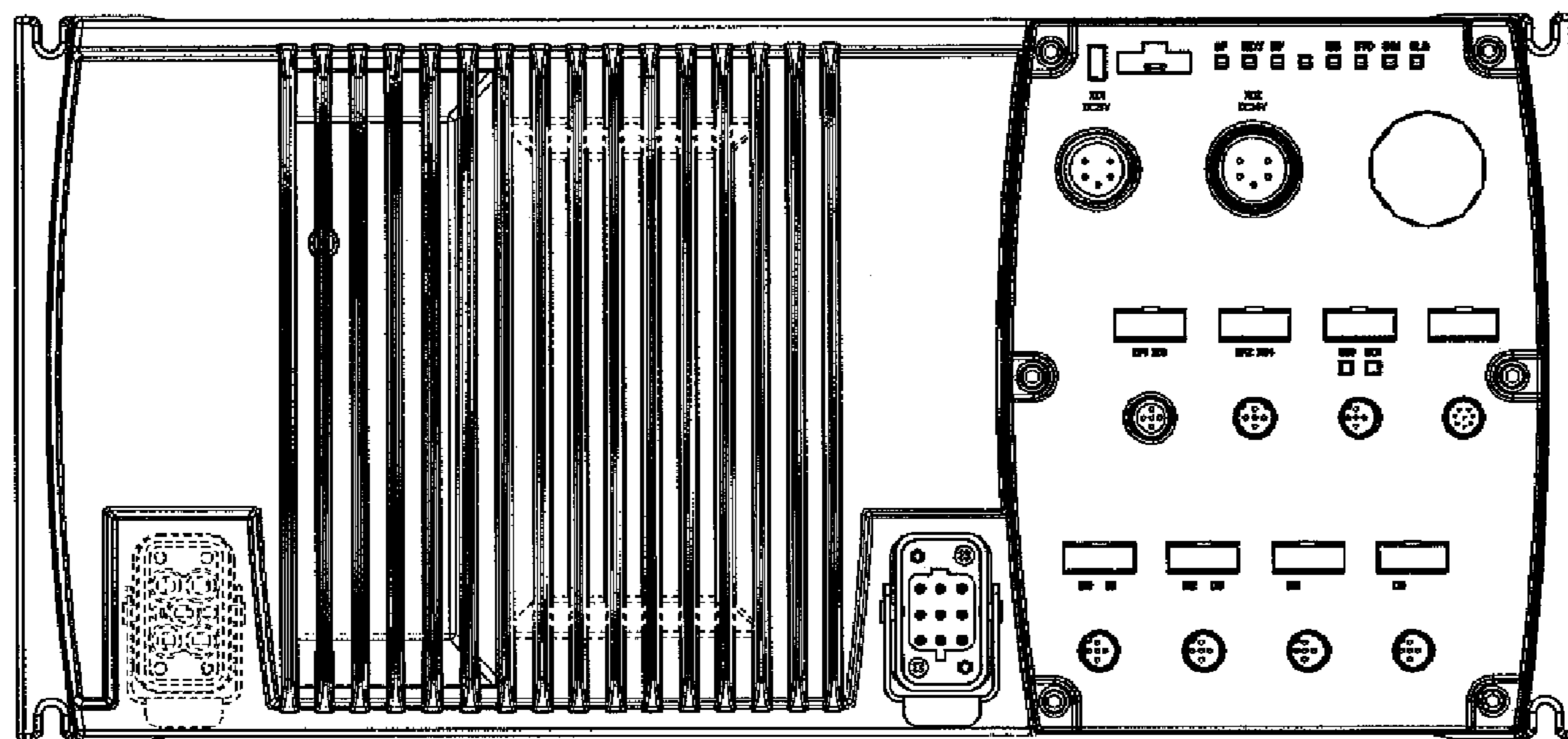


FIG 4

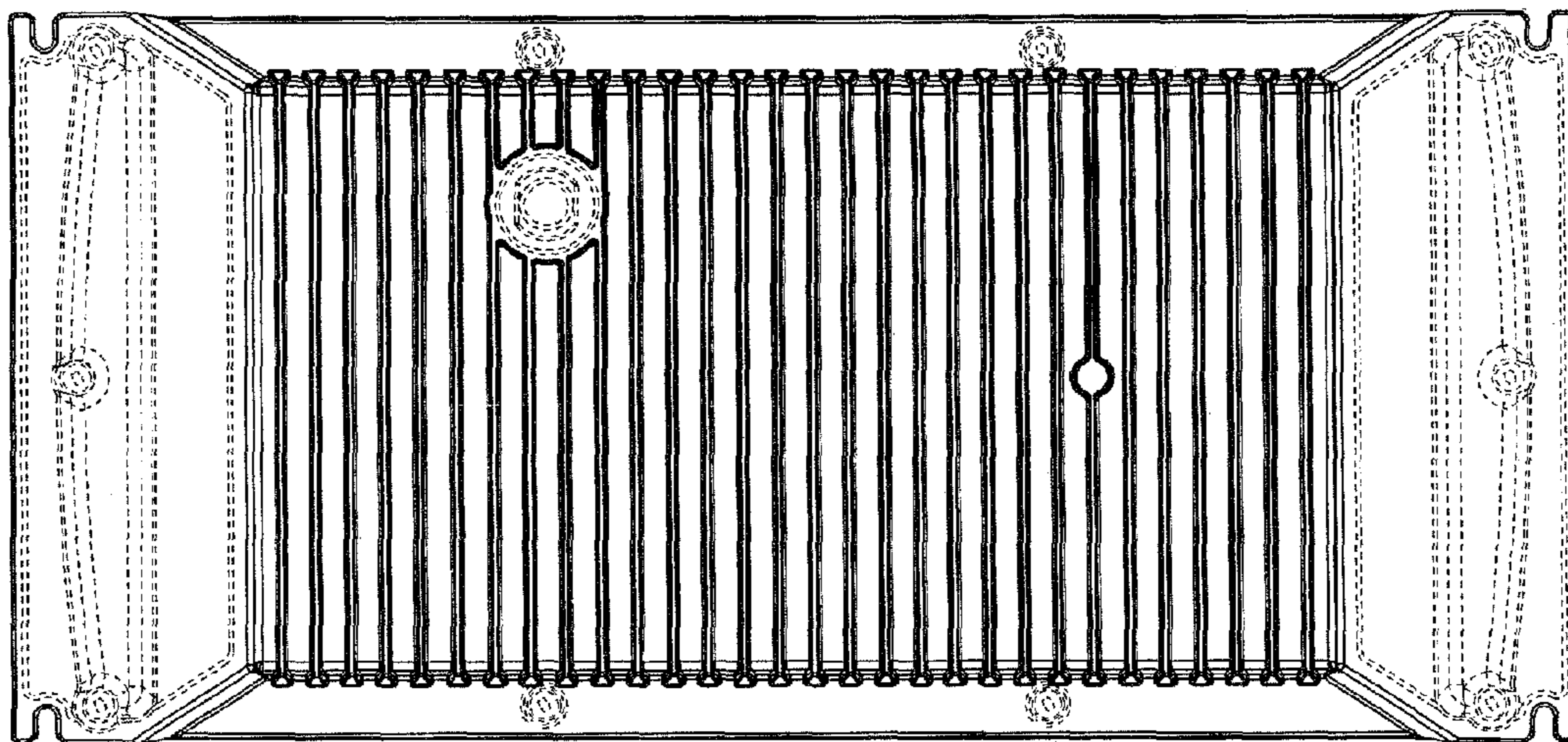


FIG 5

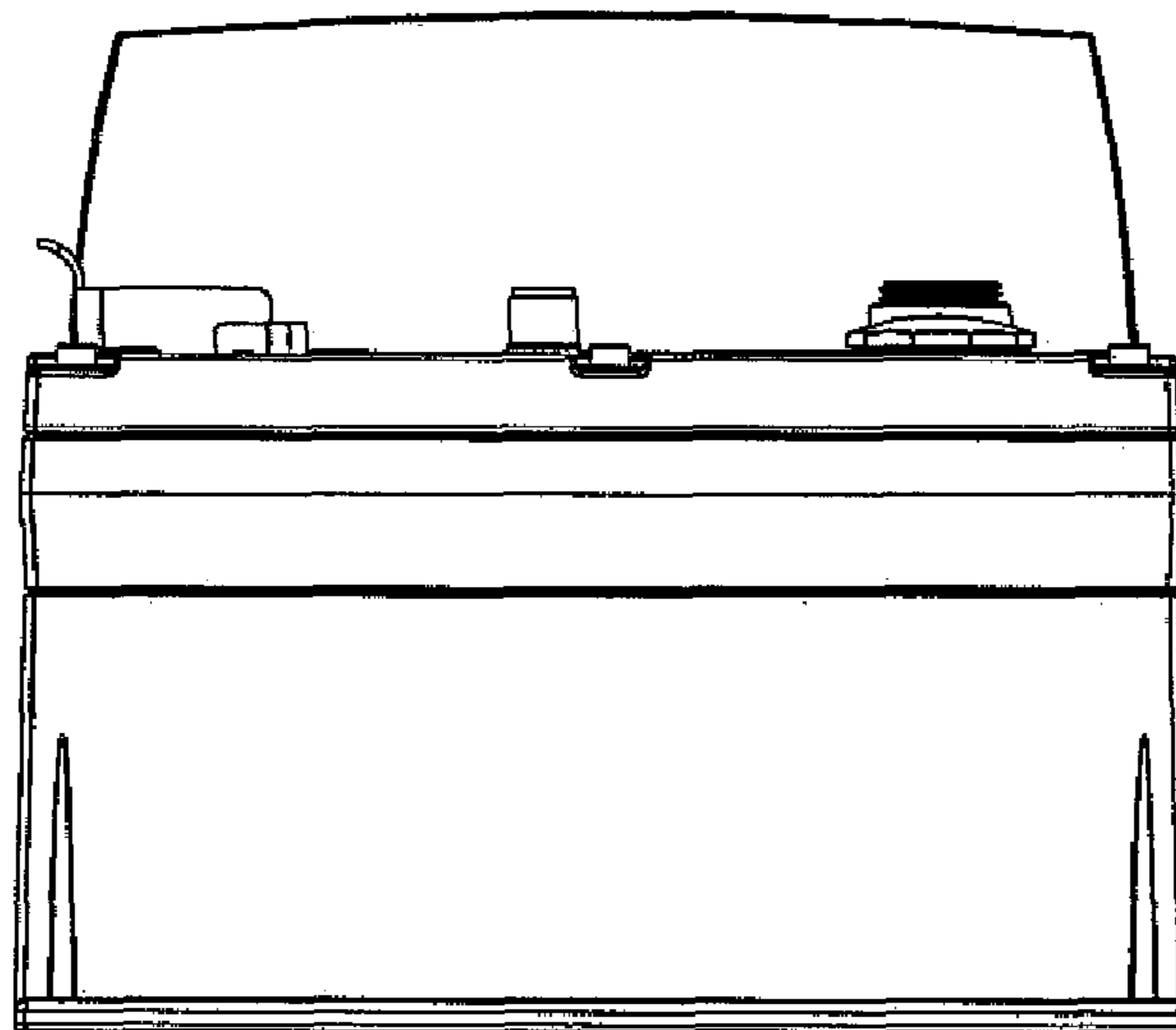


FIG 6

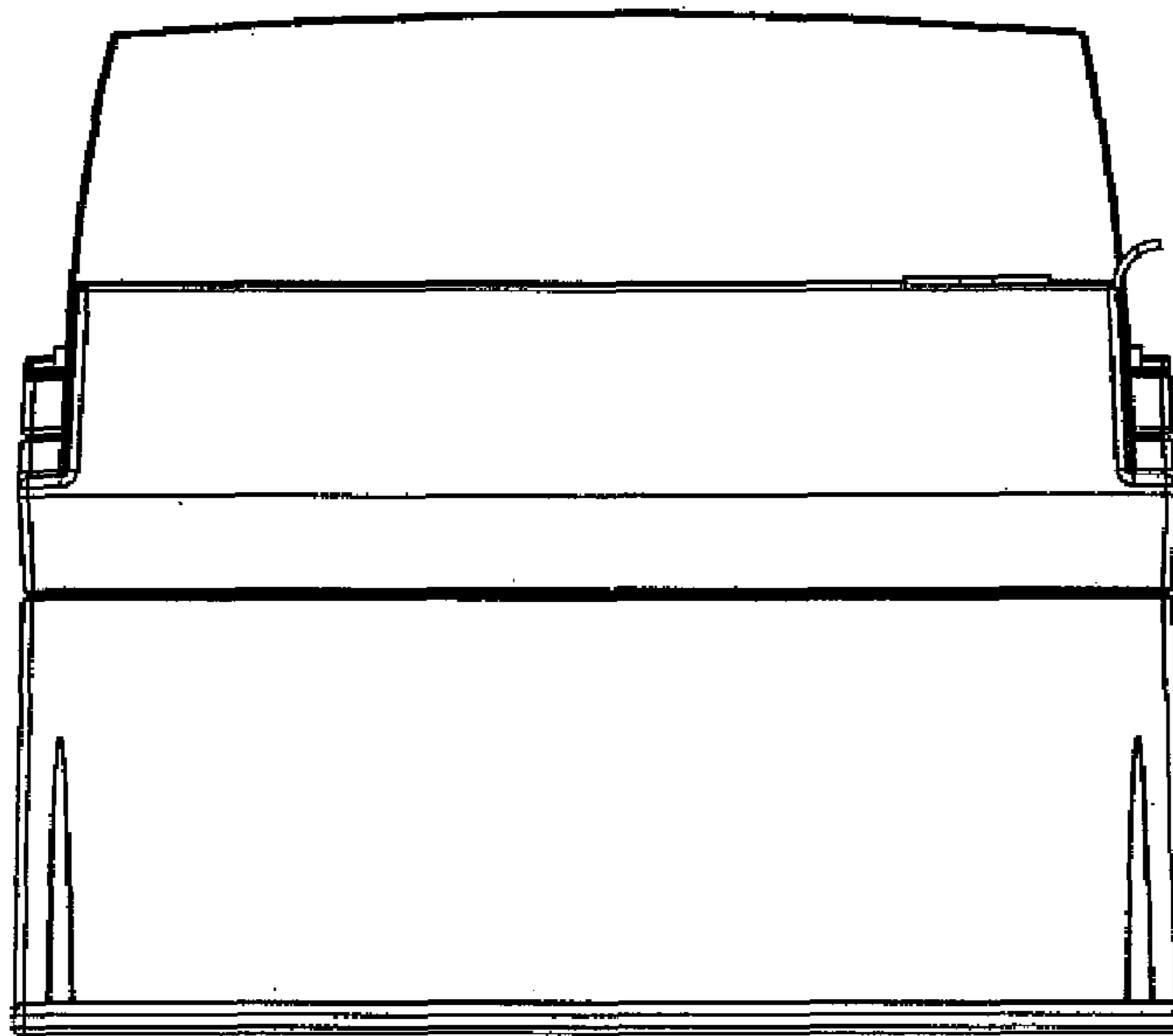


FIG 7

