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Duer et al.

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(54) **LARGE AREA SUBSTRATE PROCESSOR**

2008/0141509 A1* 6/2008 Nishimura 29/25.01
2009/0014414 A1* 1/2009 Tomioka et al. 216/41

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* cited by examiner

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

(57) **CLAIM**

(21) Appl. No.: **29/330,000**

The ornamental design for a large area substrate processor, as shown and described.

(22) Filed: **Dec. 24, 2008**

(51) **LOC (9) Cl.** **15-99**

(52) **U.S. Cl.** **D15/199**

(58) **Field of Classification Search** D15/199;
29/25.01; 156/345.29, 345.31, 345.32, 345.38;
204/192.12, 298.02; 216/41, 67; 382/145;
427/255.5; 432/121; 438/109, 680
See application file for complete search history.

DESCRIPTION

FIG. 1 is a top plan view of a processing system for processing large area substrates.

FIG. 2 is a front elevation of the processing system of FIG. 1. The back elevation being the same as the front elevation.

FIGS. 3-4 are side views of the processing system of FIG. 1.

FIG. 5 is a bottom view of the processing system of FIG. 1; and,

FIG. 6 is a perspective view of the processing system of FIG. 1.

The present invention generally includes a vacuum processing system for processing large area substrates, such as flat panel displays (i.e., LCD, OLED, and other types of flat panel displays), solar panels, and the like.

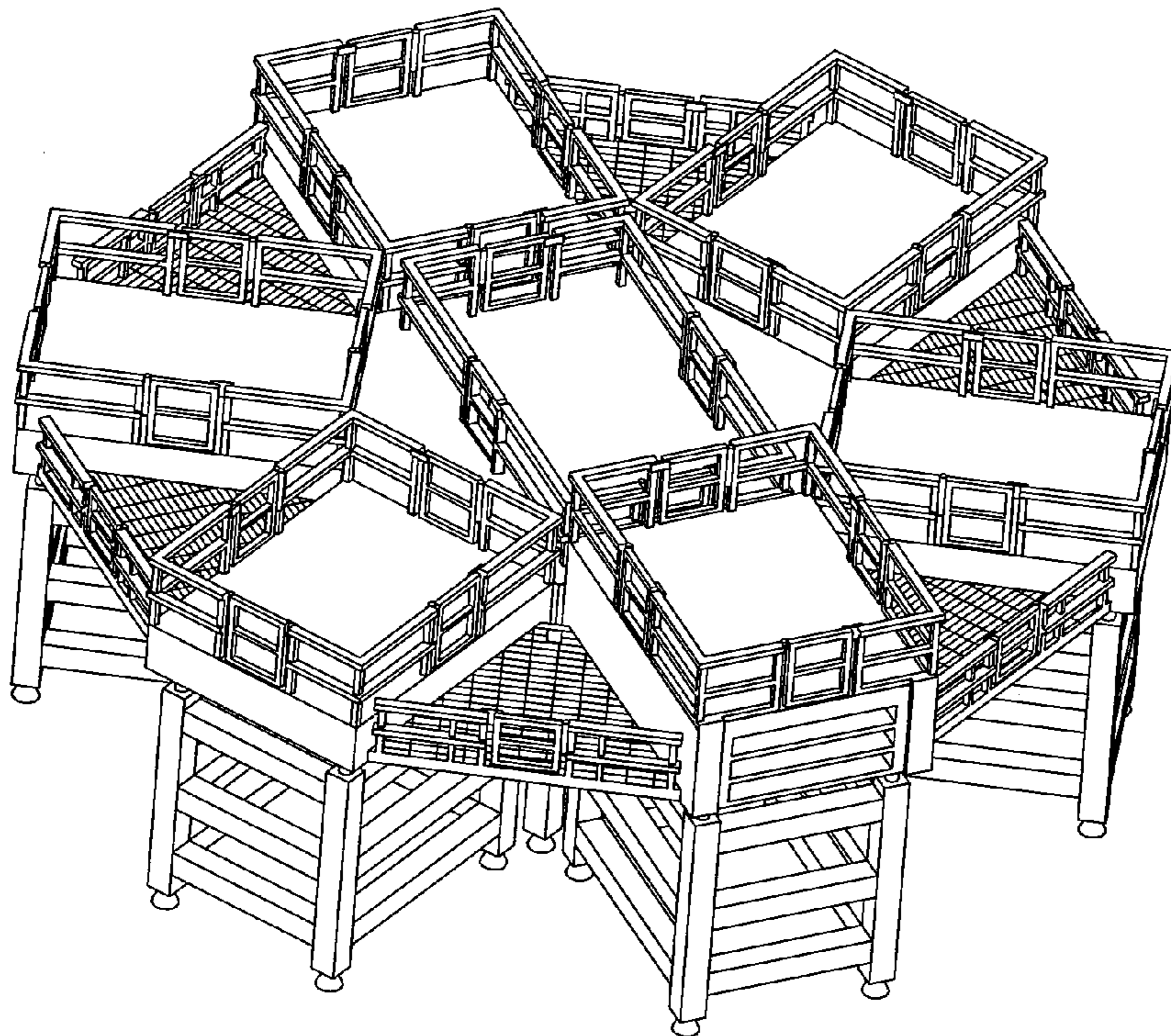
The broken lines in the drawings depict unclaimed environmental subject matter.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,235,634	B1 *	5/2001	White et al.	438/680
6,319,373	B2 *	11/2001	Takeyama et al.	204/298.25
2004/0053184	A1 *	3/2004	Bachrach et al.	432/121
2005/0095088	A1 *	5/2005	Kurita et al.	414/217
2006/0008134	A1 *	1/2006	Ikeno et al.	382/145
2006/0054495	A1 *	3/2006	Rohrmann et al.	204/192.12
2007/0065581	A1 *	3/2007	Shiraiwa 427/255.5	
2007/0212816	A1 *	9/2007	Nishimura 438/109	
2008/0040061	A1 *	2/2008	Osada 702/82	
2008/0099440	A1 *	5/2008	Hayashi 216/67	

1 Claim, 6 Drawing Sheets



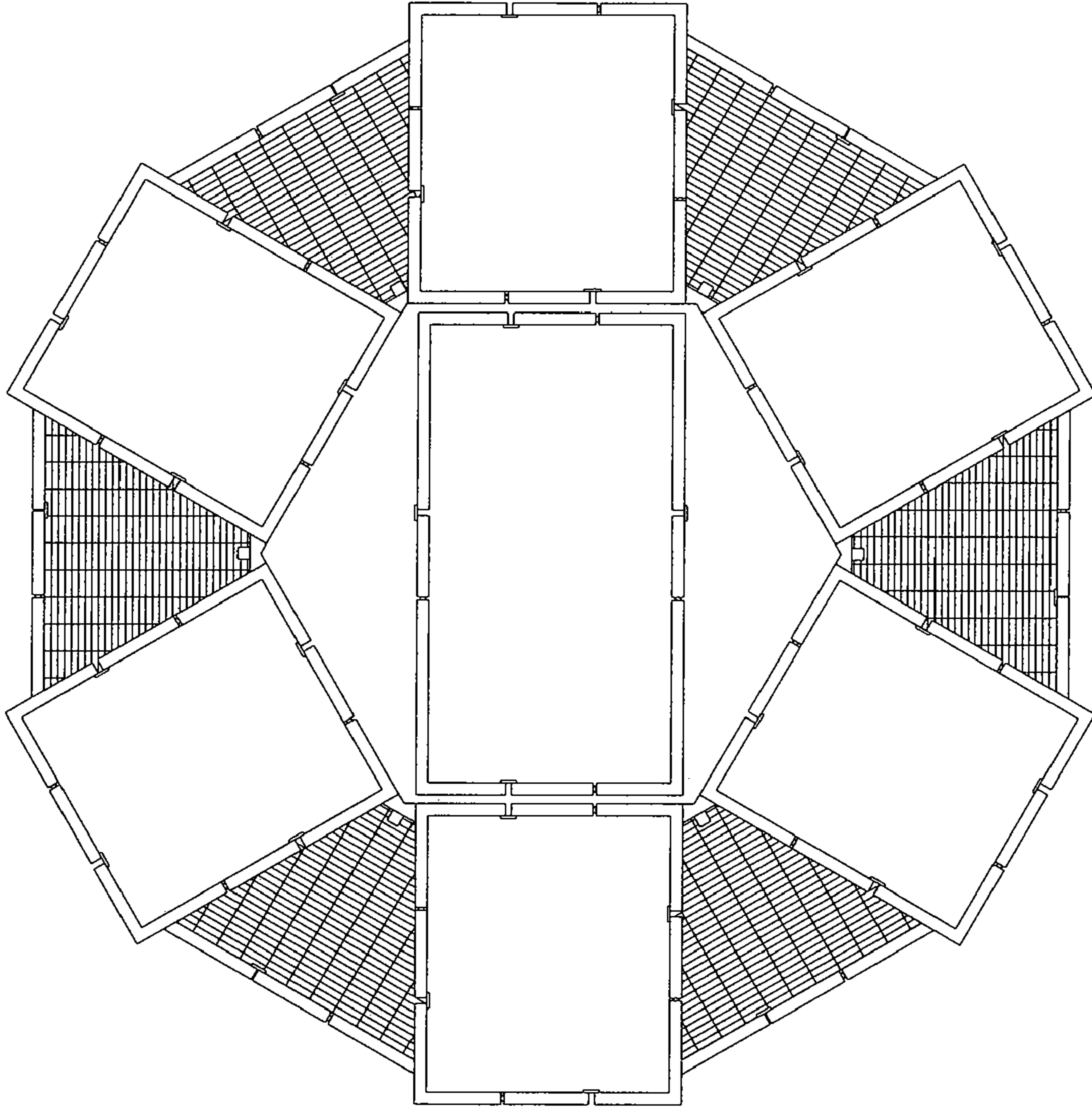


FIG. 1

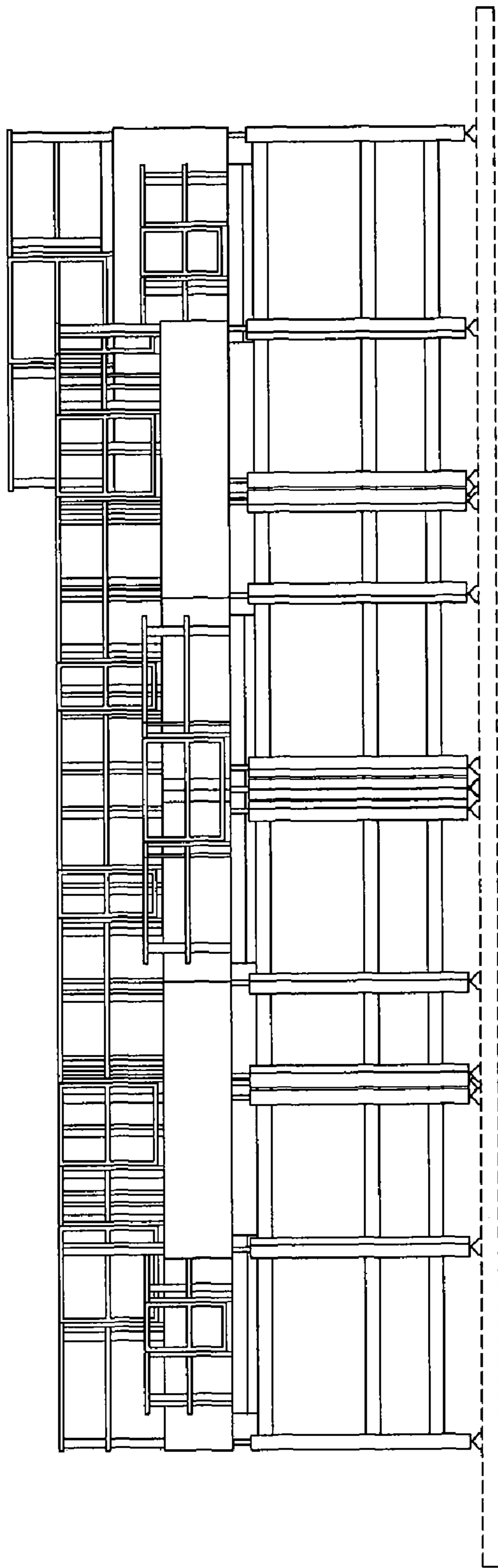


FIG. 2

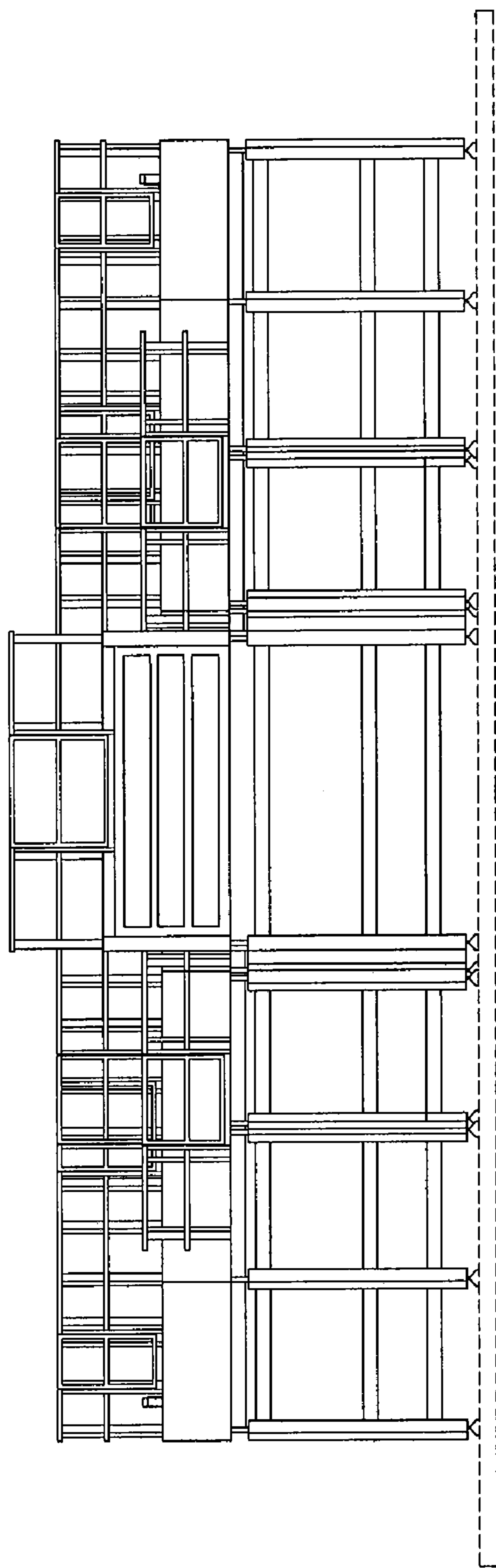


FIG. 3

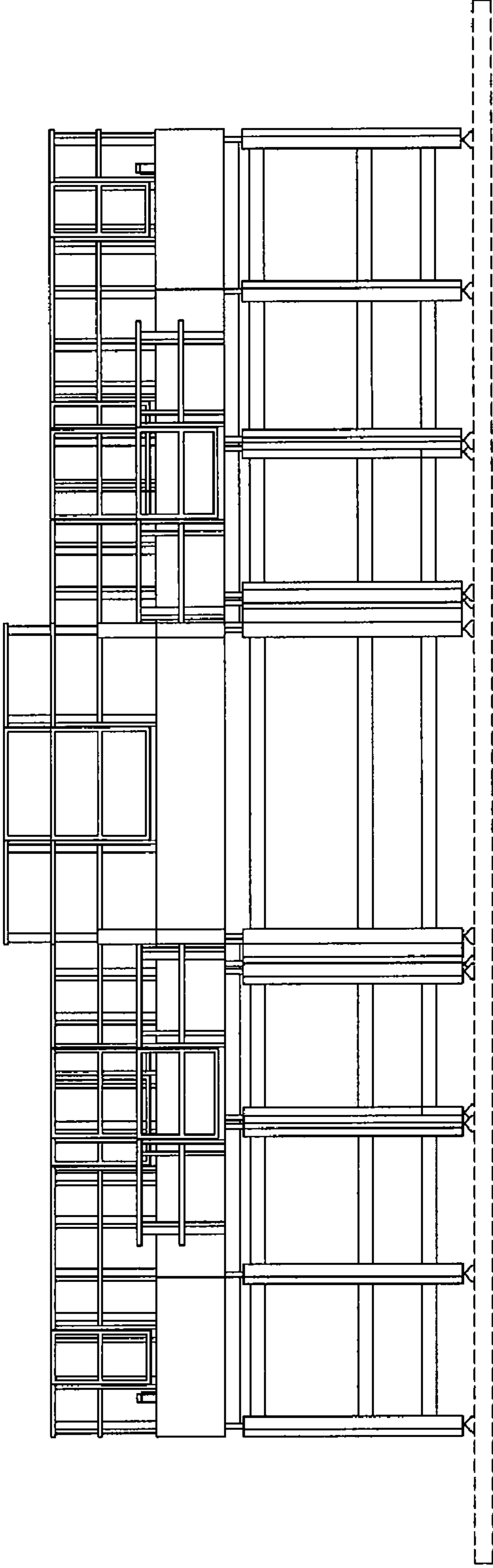


FIG. 4

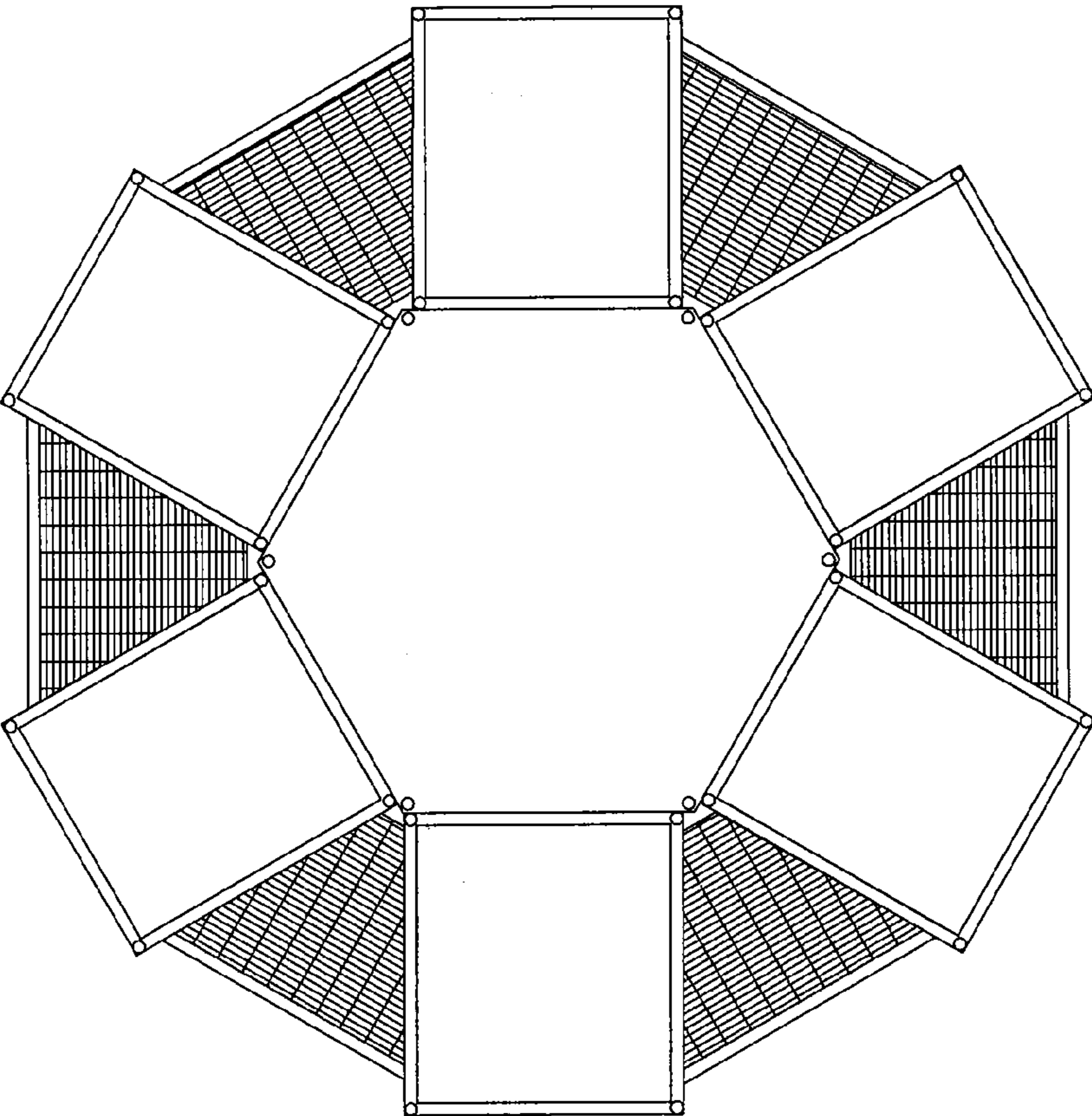


FIG. 5

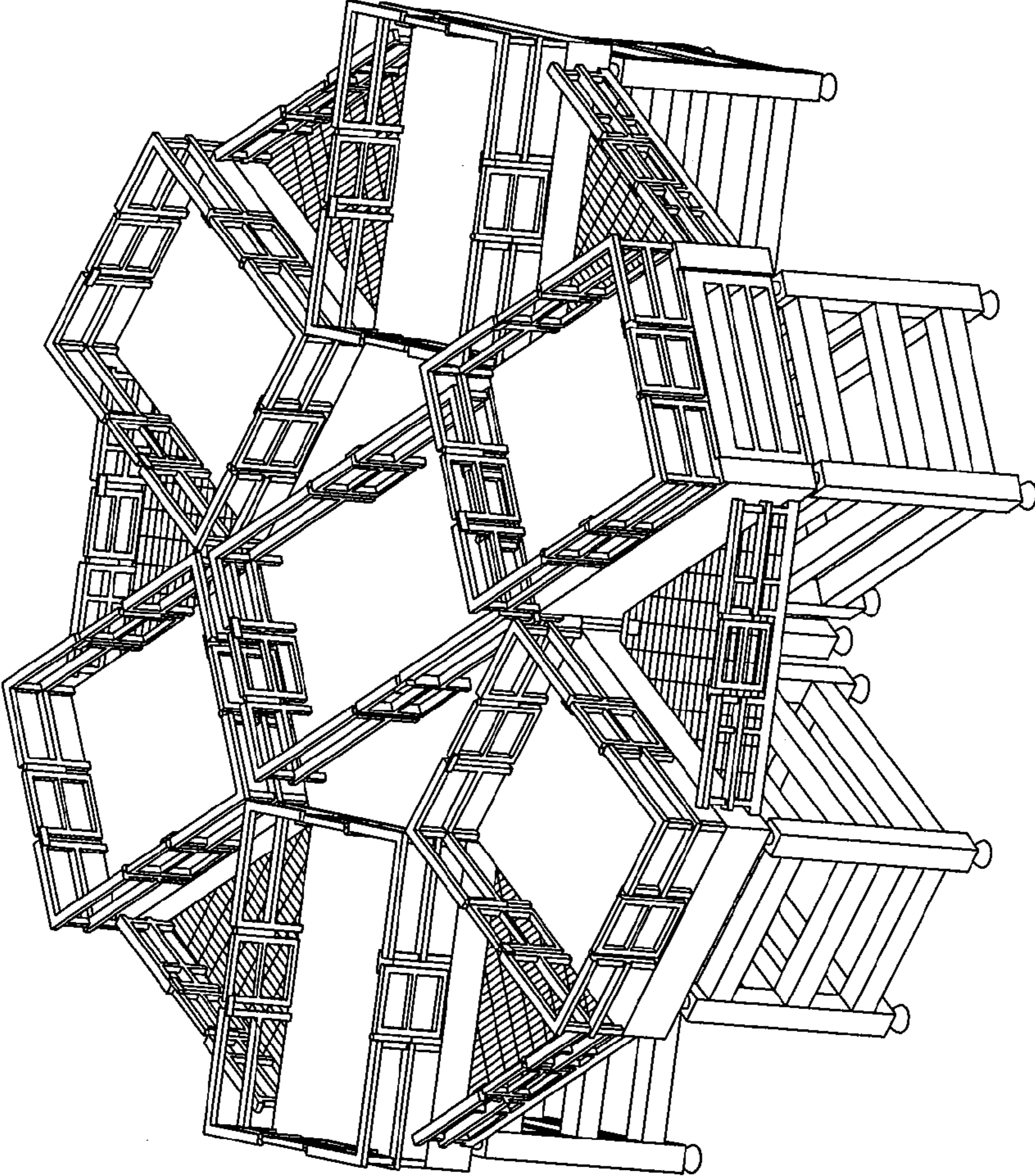


FIG. 6