



US00D733135S

(12) **United States Design Patent**  
**Utsuki et al.**(10) **Patent No.:** **US D733,135 S**  
(45) **Date of Patent:** **\*\* Jun. 30, 2015**(54) **MAGNETIC DISK STORAGE UNIT FOR ELECTRONIC COMPUTER**(71) Applicant: **Hitachi, Ltd.**, Tokyo (JP)(72) Inventors: **Toshiyuki Utsuki**, Tachikawa (JP); **Junpei Hokari**, Tokyo (JP); **Koichi Umezawa**, Tokyo (JP); **Kenta Kumagai**, Tokyo (JP); **Manabu Yamagata**, Minamiashigara (JP); **Toru Kobayashi**, Odawara (JP)(73) Assignee: **HITACHI, LTD.**, Tokyo (JP)(\*\*) Term: **14 Years**(21) Appl. No.: **29/466,840**(22) Filed: **Sep. 12, 2013**(30) **Foreign Application Priority Data**Mar. 21, 2013 (JP) ..... 2013-006216  
(51) LOC (10) Cl. ..... **14-02**(52) U.S. Cl.  
USPC ..... **D14/364**(58) **Field of Classification Search**USPC ..... D14/300–302, 314, 348–370, 383–385,  
D14/435, 496, 125, 135, 155, 240–242,  
D14/299; D3/273; D9/432; D10/65, 75, 78;  
D13/103, 119, 162, 184, 199  
CPC .. G11B 33/027; G11B 33/122; G11B 33/124;  
G11B 33/128

See application file for complete search history.

(56) **References Cited**

## U.S. PATENT DOCUMENTS

D71,216 S \* 10/1926 Schilling ..... D9/432  
D217,853 S \* 6/1970 Wernick et al. ..... D3/302  
4,972,191 A \* 11/1990 Ishino et al. ..... 342/1

D318,656	S	*	7/1991	Bowker et al. ....	D14/356
D321,178	S	*	10/1991	Bowker et al. ....	D14/356
D344,493	S	*	2/1994	Mousa et al. ....	D14/350
5,303,214	A	*	4/1994	Kulakowski et al. ....	369/30.3
D347,827	S	*	6/1994	Noble ....	D14/349
D348,051	S	*	6/1994	Noble ....	D14/349
D375,943	S	*	11/1996	Muenkel ....	D14/350
D389,464	S	*	1/1998	Utsuki et al. ....	D14/308
5,796,580	A	*	8/1998	Komatsu et al. ....	361/679.48
D411,184	S	*	6/1999	Izawa et al. ....	D14/364
D413,333	S	*	8/1999	Kitajima et al. ....	D14/242
D444,148	S	*	6/2001	Hashizume et al. ....	D14/308
D460,886	S	*	7/2002	Hashizume et al. ....	D6/509
D462,953	S	*	9/2002	Jang ....	D14/299

(Continued)

## OTHER PUBLICATIONS

"Hitachi aims to cut enterprise storage costs with Unified Storage", [online] Apr. 25, 2012 [retrieved on Jun. 26, 2013]. Retrieved from the Internet <URL: <http://www.v3.co.uk/v3-uk/news/2170357/hitachi-aims-cut-enterprise-storage-costs-unified-storage>>.\*

(Continued)

*Primary Examiner* — Karen E Kearney(74) *Attorney, Agent, or Firm* — Baker Botts L.L.P.(57) **CLAIM**

We claim the ornamental design for a magnetic disk storage unit for electronic computer, as shown.

**DESCRIPTION**

FIG. 1 is a front, top and right side perspective view of a magnetic disk storage unit for electronic computer showing our new design;

FIG. 2 is a front elevational view thereof;

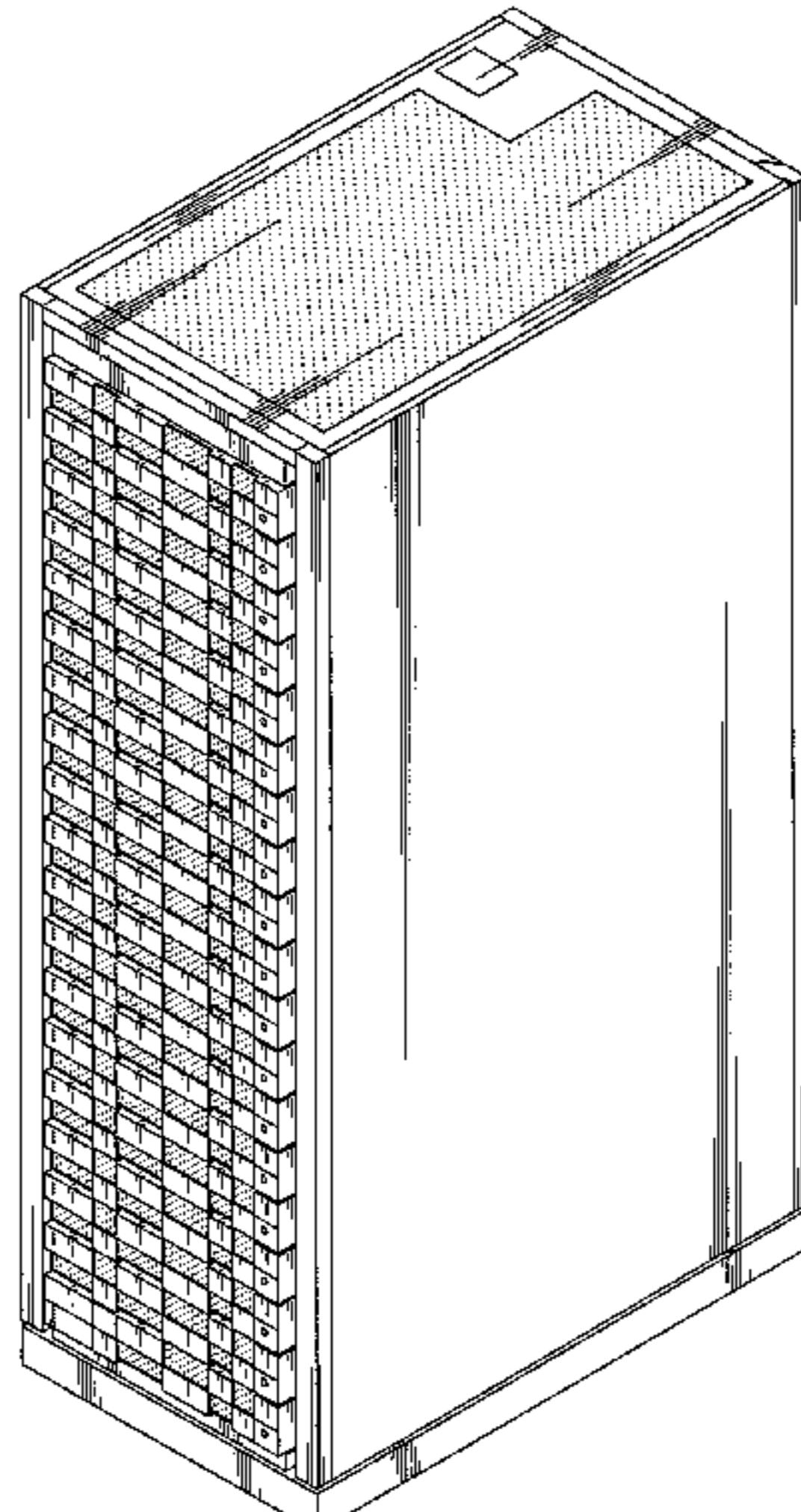
FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom plan view thereof.

**1 Claim, 5 Drawing Sheets**

(56)

**References Cited**

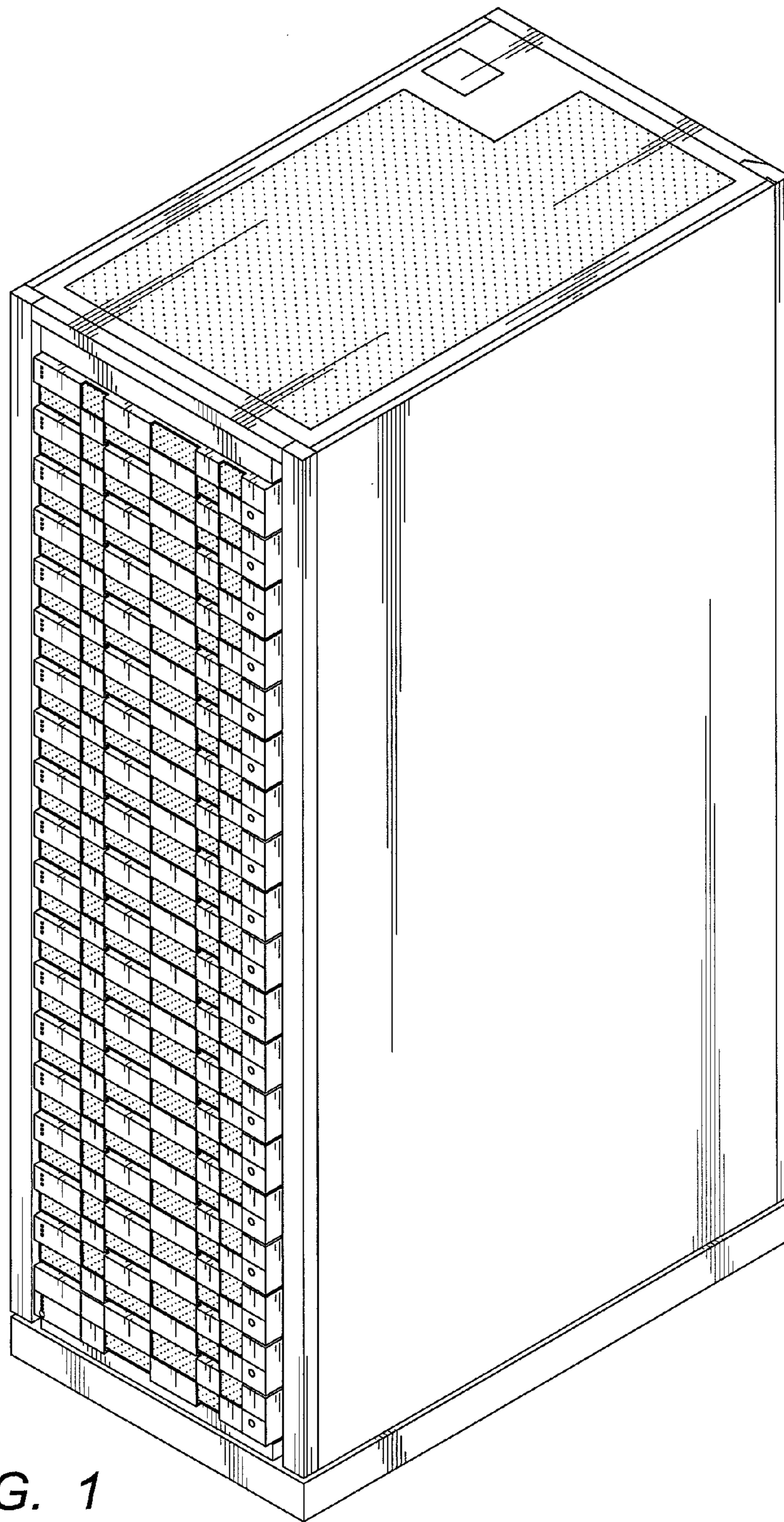
**U.S. PATENT DOCUMENTS**

- 6,498,723 B1 \* 12/2002 Konshak et al. .... 361/679.34  
6,583,991 B1 \* 6/2003 Furuta et al. .... 361/752  
D510,934 S \* 10/2005 Lin ..... D14/349  
D626,100 S \* 10/2010 Huang ..... D14/125  
D643,427 S \* 8/2011 McGoldrick et al. .... D14/356  
D650,383 S \* 12/2011 Utsuki et al. .... D14/364  
D690,694 S \* 10/2013 Utsuki et al. .... D14/364

**OTHER PUBLICATIONS**

“Hitachi HUS VM brings virtual storage benefits to smaller companies”, [online] Sep. 25, 2012 [retrieved on Jun. 26, 2013]. Retrieved from the Internet <URL: <http://www.v3.co.uk/v3-uk/news/2207676/hitachi-hus-vm-brings-virtual-storage-benefits-to-smaller-companies>>.\*

\* cited by examiner



***FIG. 1***

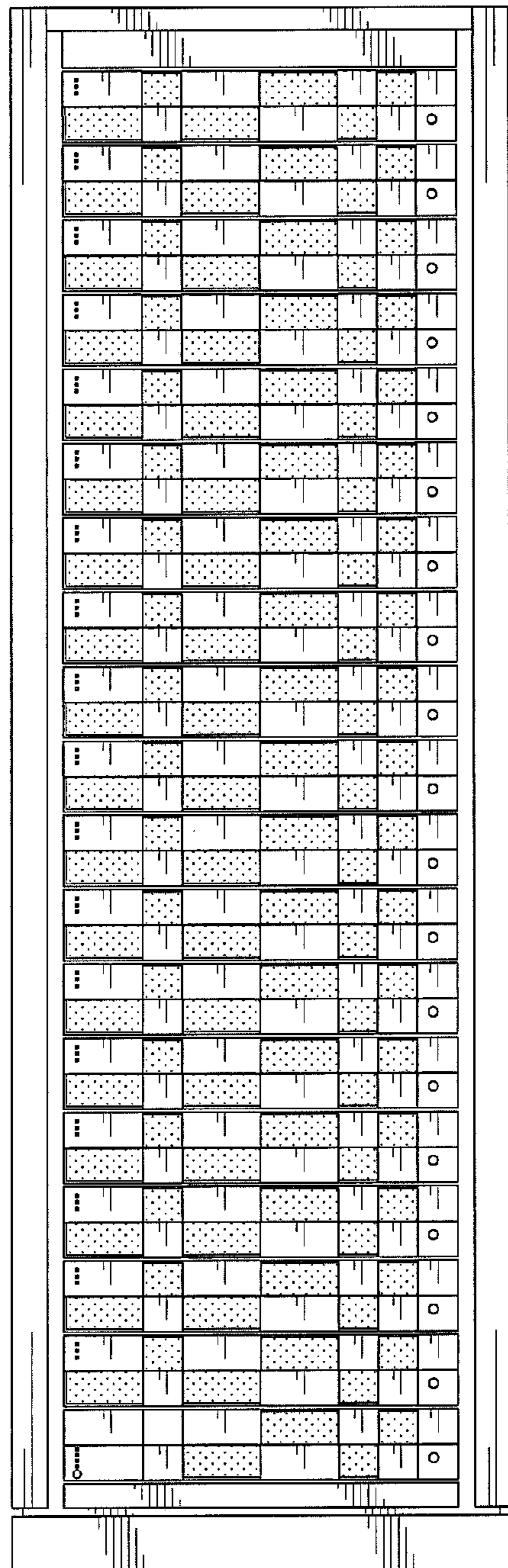


FIG. 2

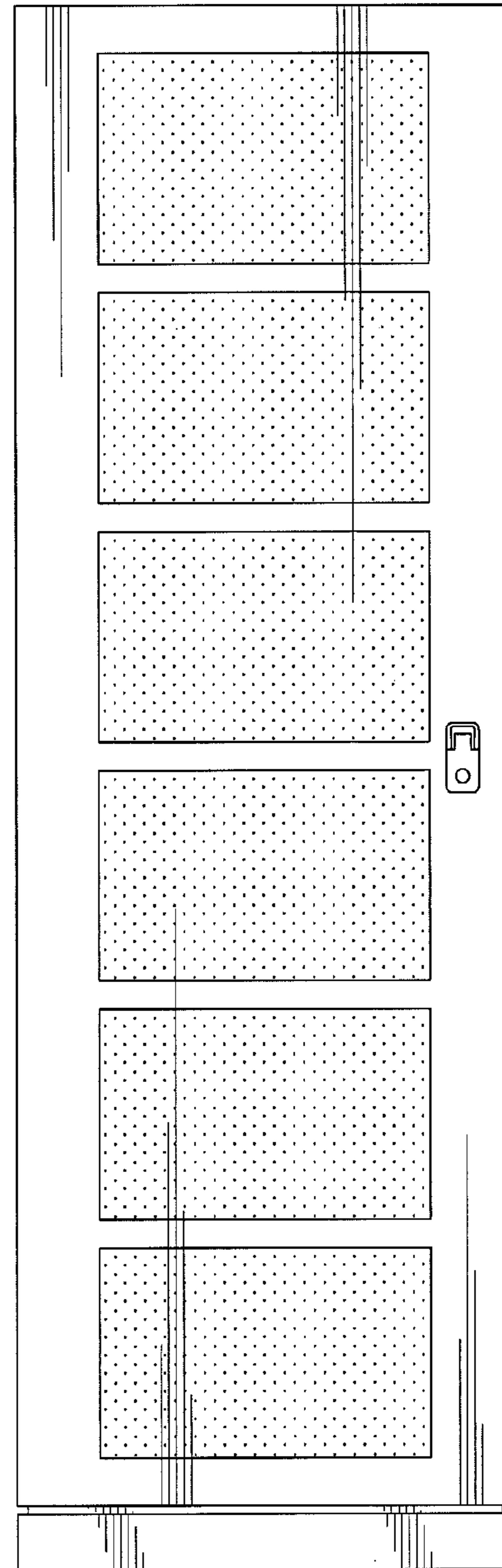
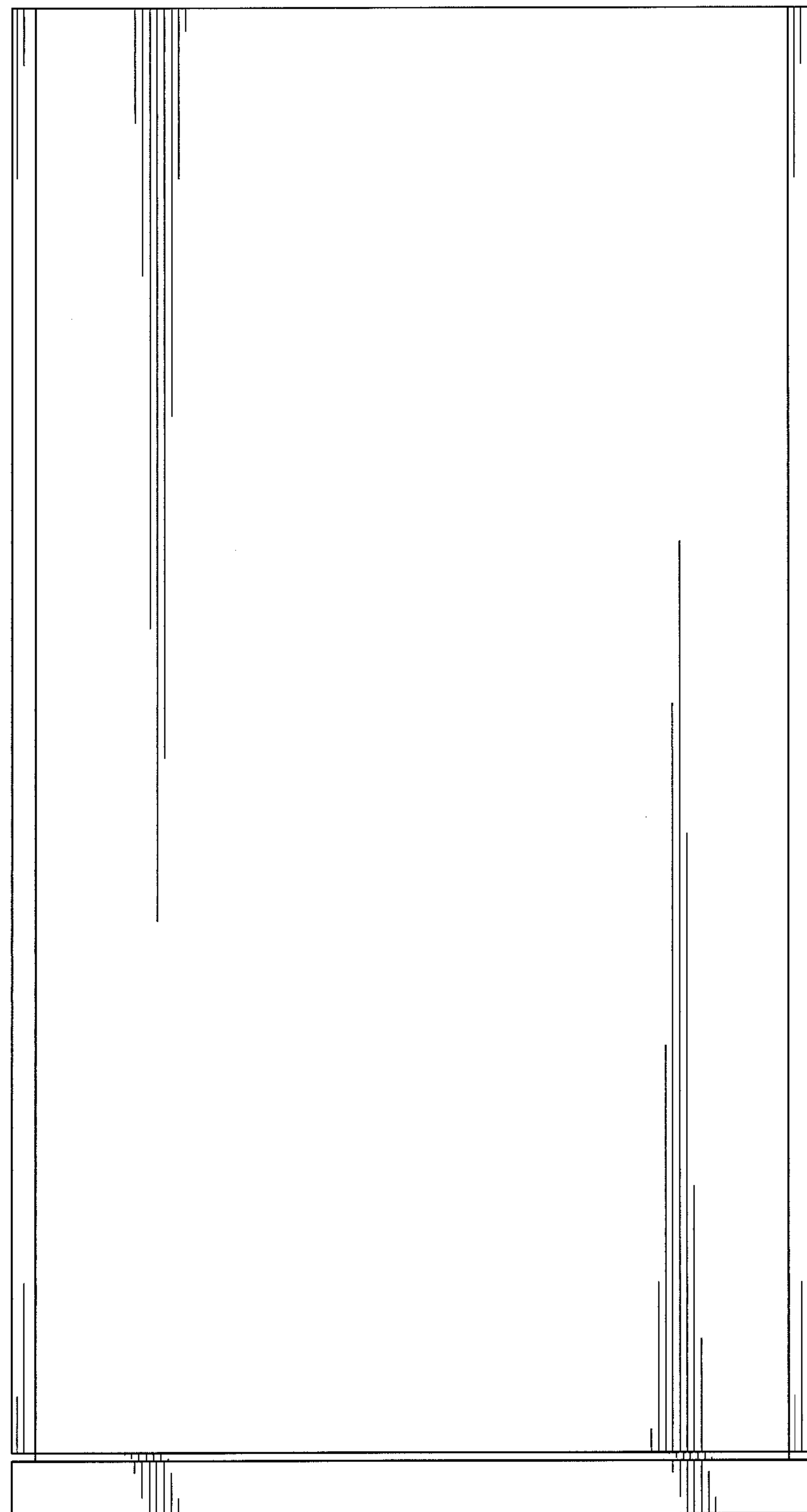
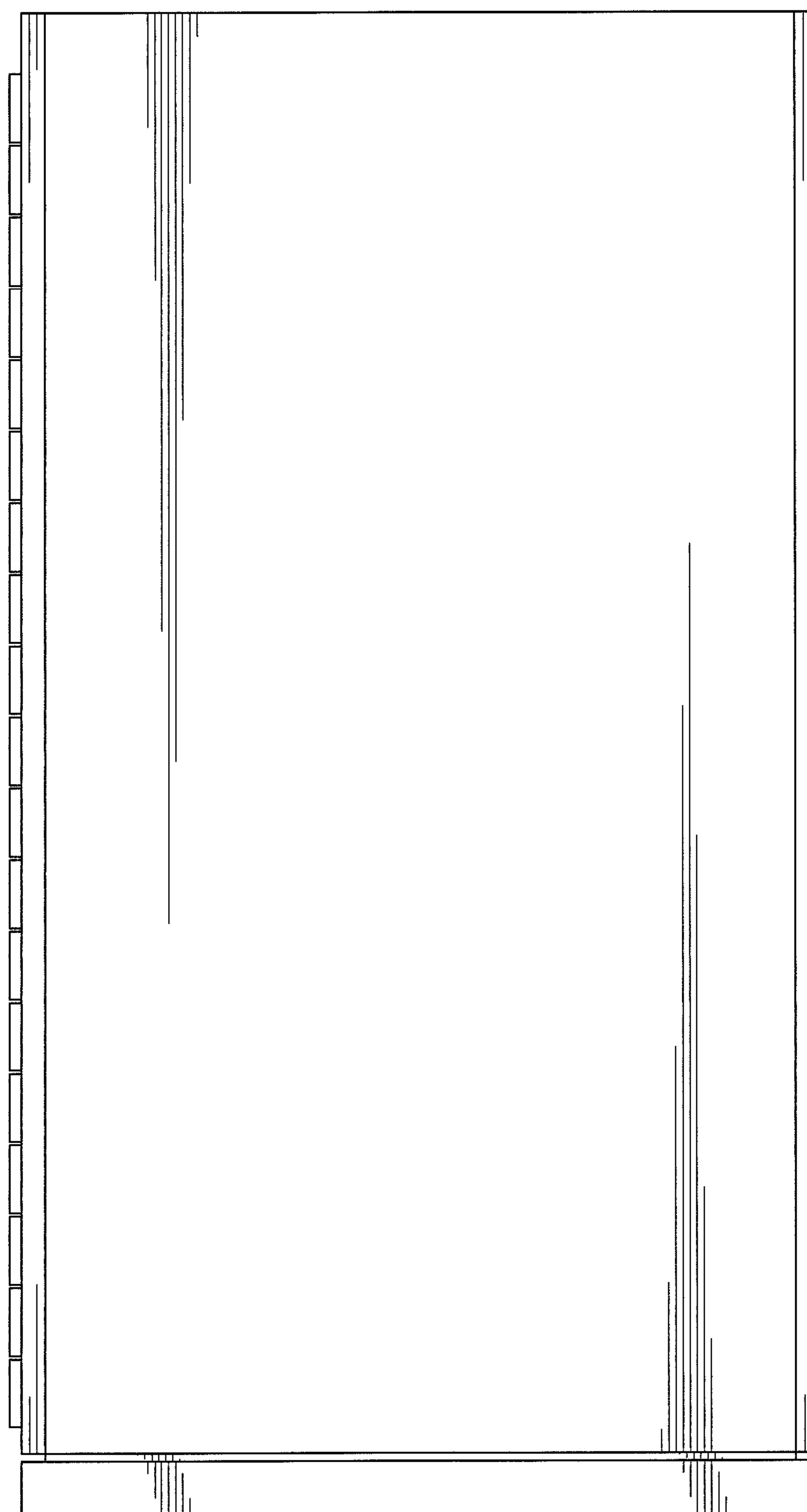


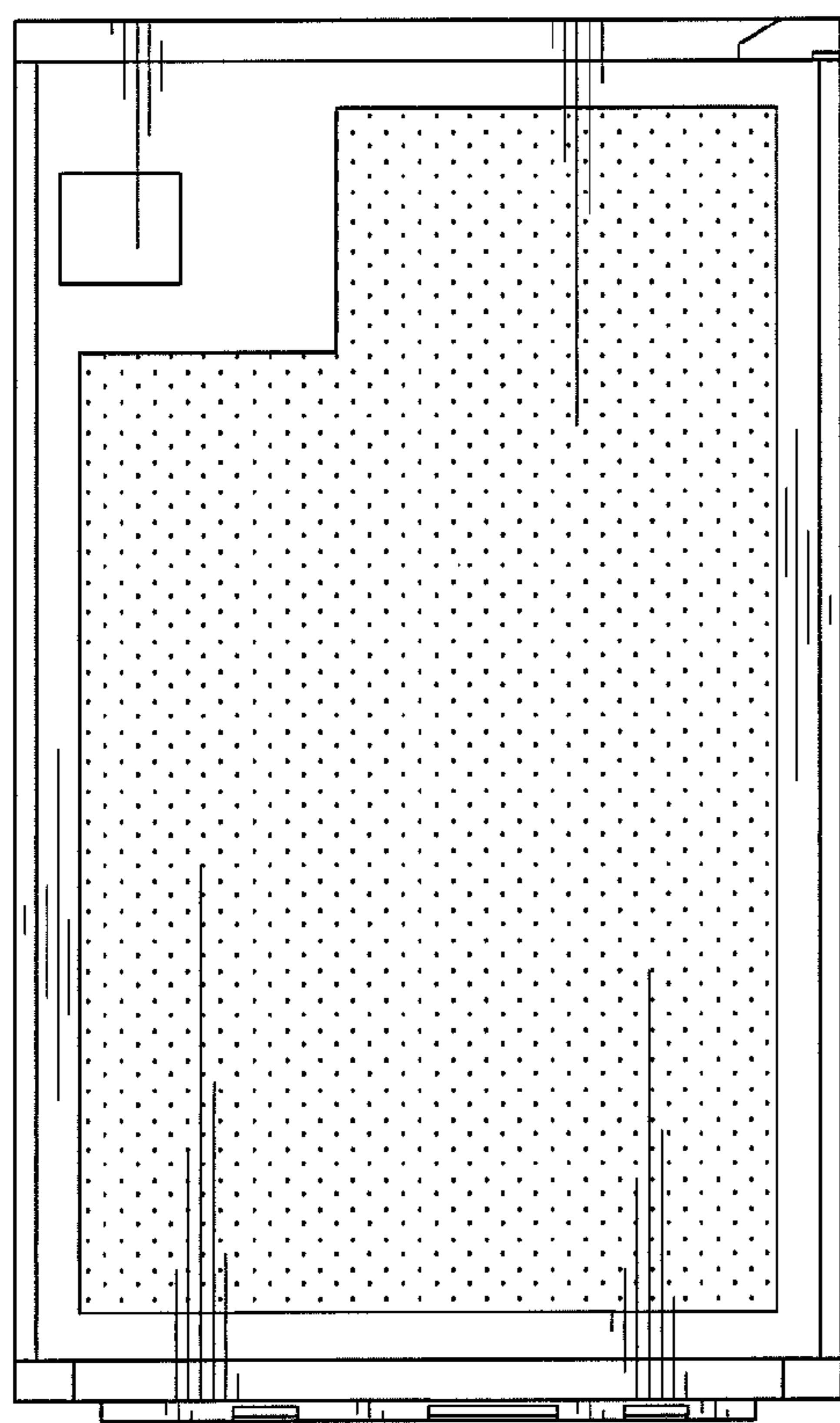
FIG. 3



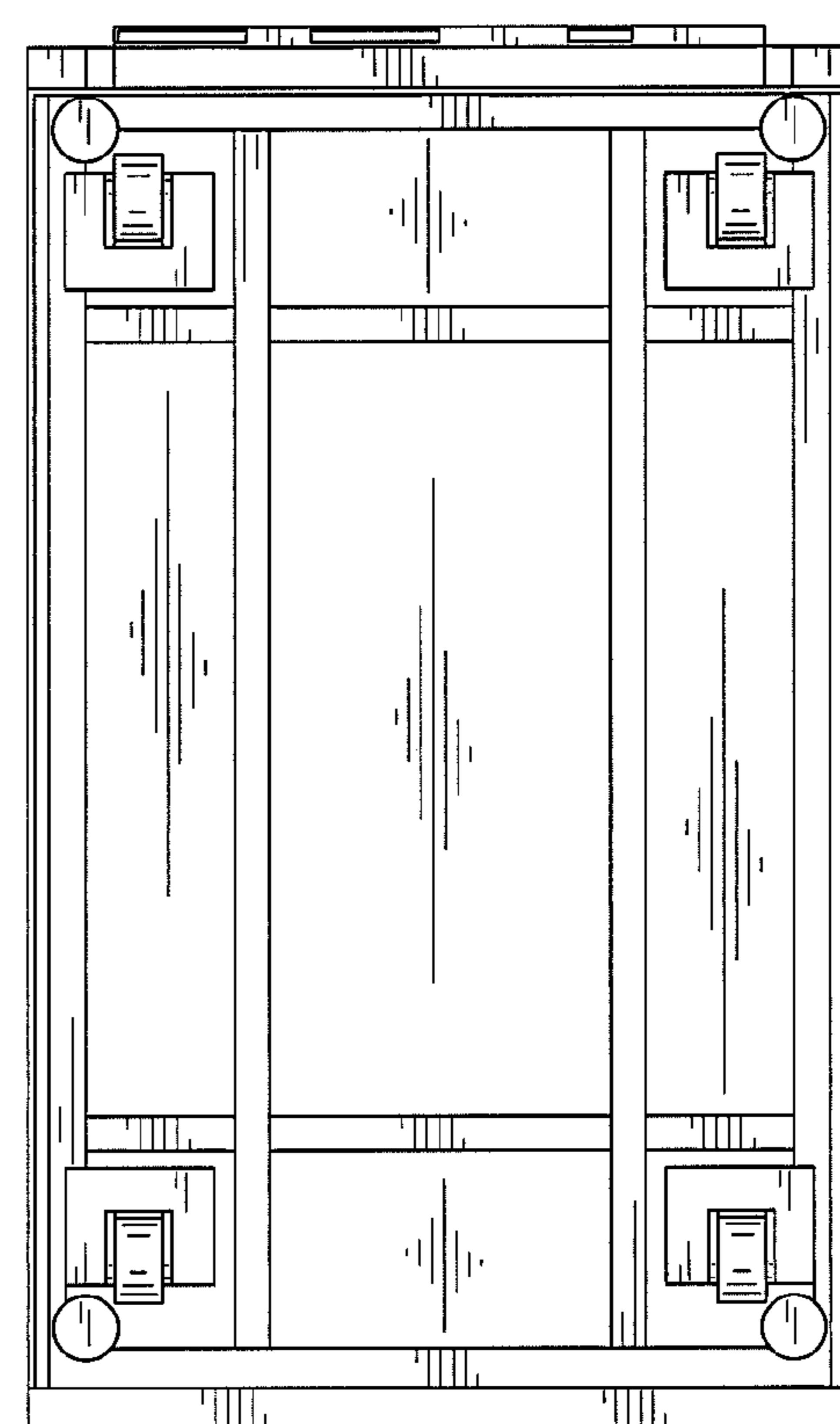
***FIG. 4***



***FIG. 5***



***FIG. 6***



***FIG. 7***