



US00D743351S

(12) **United States Design Patent**  
**Ringer**

(10) **Patent No.:** **US D743,351 S**

(45) **Date of Patent:** **\*\* Nov. 17, 2015**

(54) **POINT-TO-POINT COMMUNICATION  
PROCESSOR (PTP-CP)**

(71) Applicant: **SIEMENS**  
**AKTIENGESELLSCHAFT**, Munich  
(DE)

(72) Inventor: **Ulrich Ringer**, Amberg (DE)

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

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

(21) Appl. No.: **29/501,989**

(22) Filed: **Sep. 10, 2014**

**Related U.S. Application Data**

(62) Division of application No. 29/424,798, filed on Jun. 15, 2012, now Pat. No. Des. 733,665.

(30) **Foreign Application Priority Data**

Dec. 16, 2011 (EM) ..... 001306500

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

(52) **U.S. Cl.**  
USPC ..... **D13/162; D13/162.1**

(58) **Field of Classification Search**  
USPC ..... D13/162, 162.1; D14/301, 439  
CPC ..... G05B 19/05; G06F 3/147; G06F 11/3636;  
H05K 7/1432; H05K 7/1467; H05K 7/1468;  
H05K 7/1474; H05K 7/1478; H05K 7/1481

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D269,605	S *	7/1983	Provanzano et al. ....	D13/162.1
D281,493	S *	11/1985	Prager et al. ....	D13/162.1
D302,972	S *	8/1989	Boucher .....	D13/162.1
D307,263	S *	4/1990	Ishida .....	D13/162.1
4,920,453	A *	4/1990	Onose et al. ....	361/736
D309,446	S *	7/1990	Russell .....	D13/162.1
D309,600	S *	7/1990	Backes .....	D13/162.1
5,065,141	A *	11/1991	Whitsitt .....	340/635
5,253,140	A *	10/1993	Inoue et al. ....	361/728
5,791,916	A *	8/1998	Schirbl et al. ....	439/76.1
5,802,389	A *	9/1998	McNutt .....	710/1
5,984,734	A *	11/1999	Piper et al. ....	439/717
6,008,985	A *	12/1999	Lake et al. ....	361/679.32
6,172,875	B1 *	1/2001	Suzuki et al. ....	361/729
6,456,495	B1 *	9/2002	Wieloch et al. ....	361/729
6,686,672	B2 *	2/2004	Brown et al. ....	307/125
D488,133	S *	4/2004	Droulin et al. ....	D13/162.1
6,904,471	B2 *	6/2005	Boggs et al. ....	710/8

(Continued)

*Primary Examiner* — Selina Sikder

(74) *Attorney, Agent, or Firm* — Cozen O'Connor

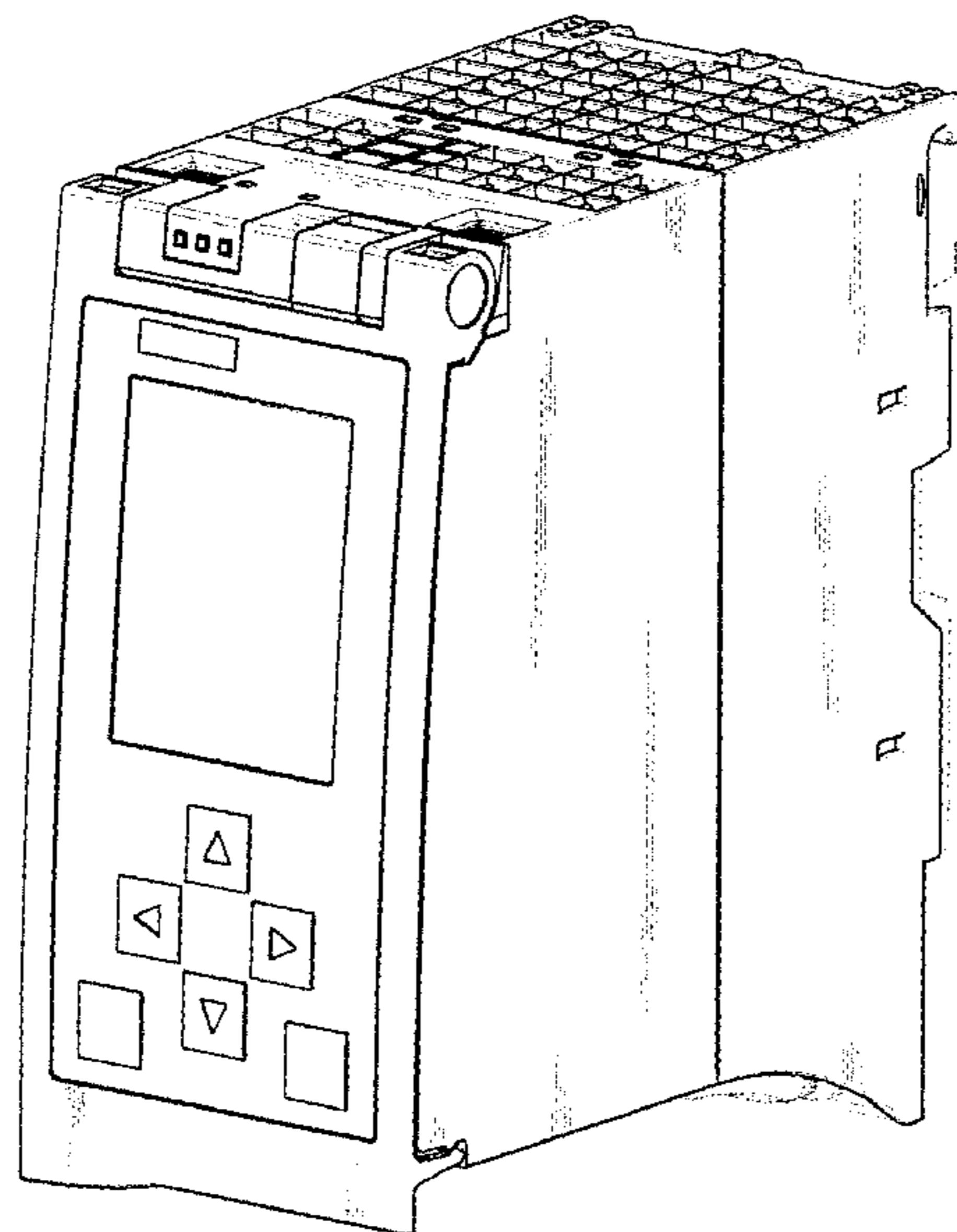
(57) **CLAIM**

The ornamental design for a point-to-point communication processor (PtP-CP), as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a point-to-point communication processor (PtP-CP) for a programmable logic controller (PLC) showing my new design; FIG. 2 is a rear elevational view of the PtP-CP; FIG. 3 is a top plan view of the PtP-CP; FIG. 4 is a bottom plan view of the PtP-CP; FIG. 5 is a right-side elevation view of the PtP-CP; FIG. 6 is left-side elevation view of the PtP-CP; and, FIG. 7 is a perspective view of the PtP-CP. The broken lines shown in the drawing views are for illustrative purposes only and forms no part of the claimed design.

**1 Claim, 7 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

7,027,296	B2 *	4/2006	Bock	361/622
D520,992	S *	5/2006	Lee	D14/301
7,066,677	B2 *	6/2006	Ruter	403/231
D524,760	S *	7/2006	Ohlwine et al.	D13/162.1
D527,349	S *	8/2006	Lee	D13/162.1
D563,903	S *	3/2008	Radau et al.	D13/162
D588,552	S *	3/2009	Radau et al.	D13/162
D598,867	S *	8/2009	Nada et al.	D13/162.1
D692,397	S *	10/2013	Liu et al.	D13/162.1
8,602,816	B2 *	12/2013	Donhauser et al.	439/532
D702,647	S *	4/2014	Liu et al.	D13/162.1
D733,665	S *	7/2015	Ringer	D13/162.1
2002/0072256	A1 *	6/2002	Lostoski et al.	439/76.1
2012/0043378	A1 *	2/2012	Vazach et al.	235/375
2012/0129368	A1 *	5/2012	Donhauser et al.	439/137
2014/0118958	A1 *	5/2014	Hamada et al.	361/728
2014/0156029	A1 *	6/2014	Godau et al.	700/19

\* cited by examiner

FIG 1

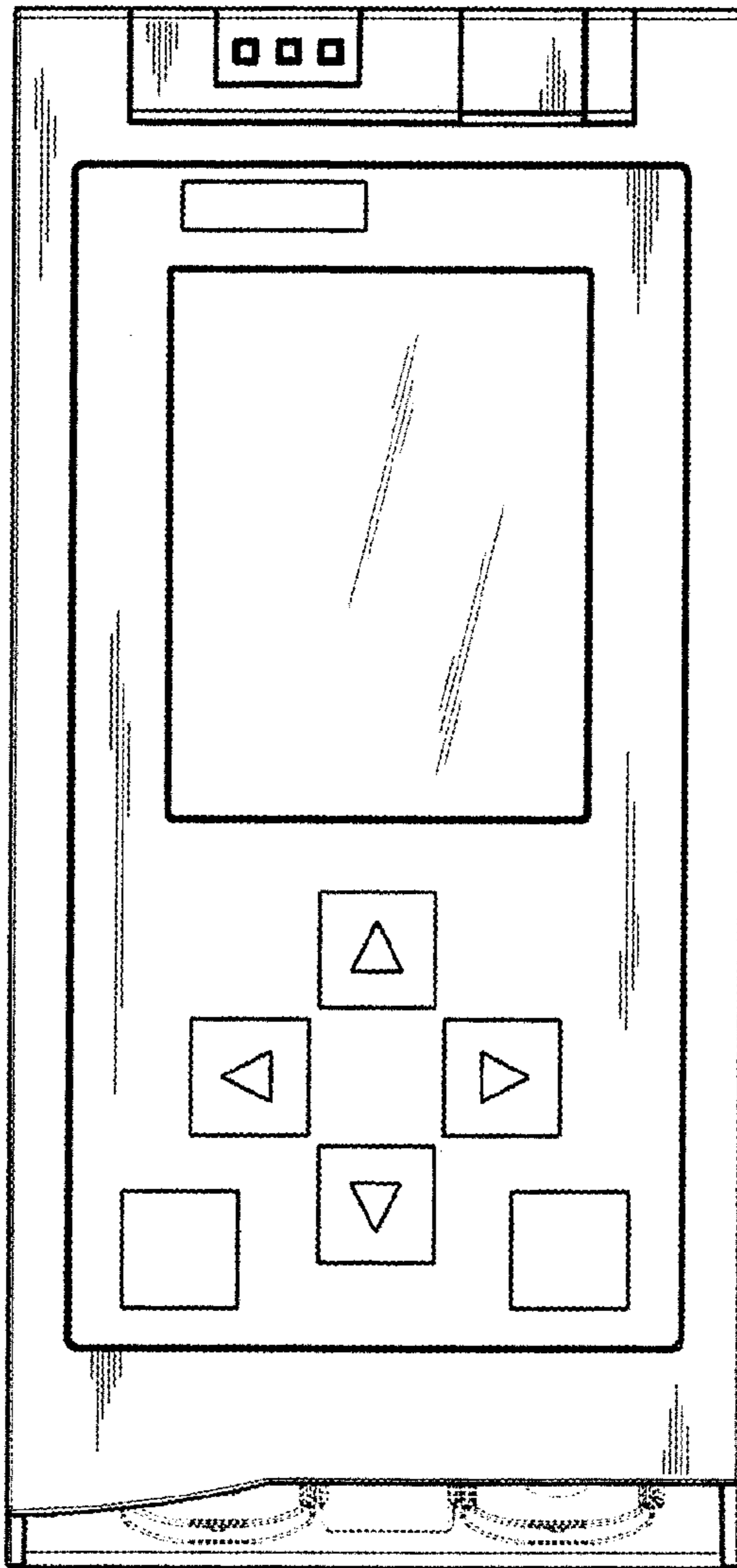


FIG 2

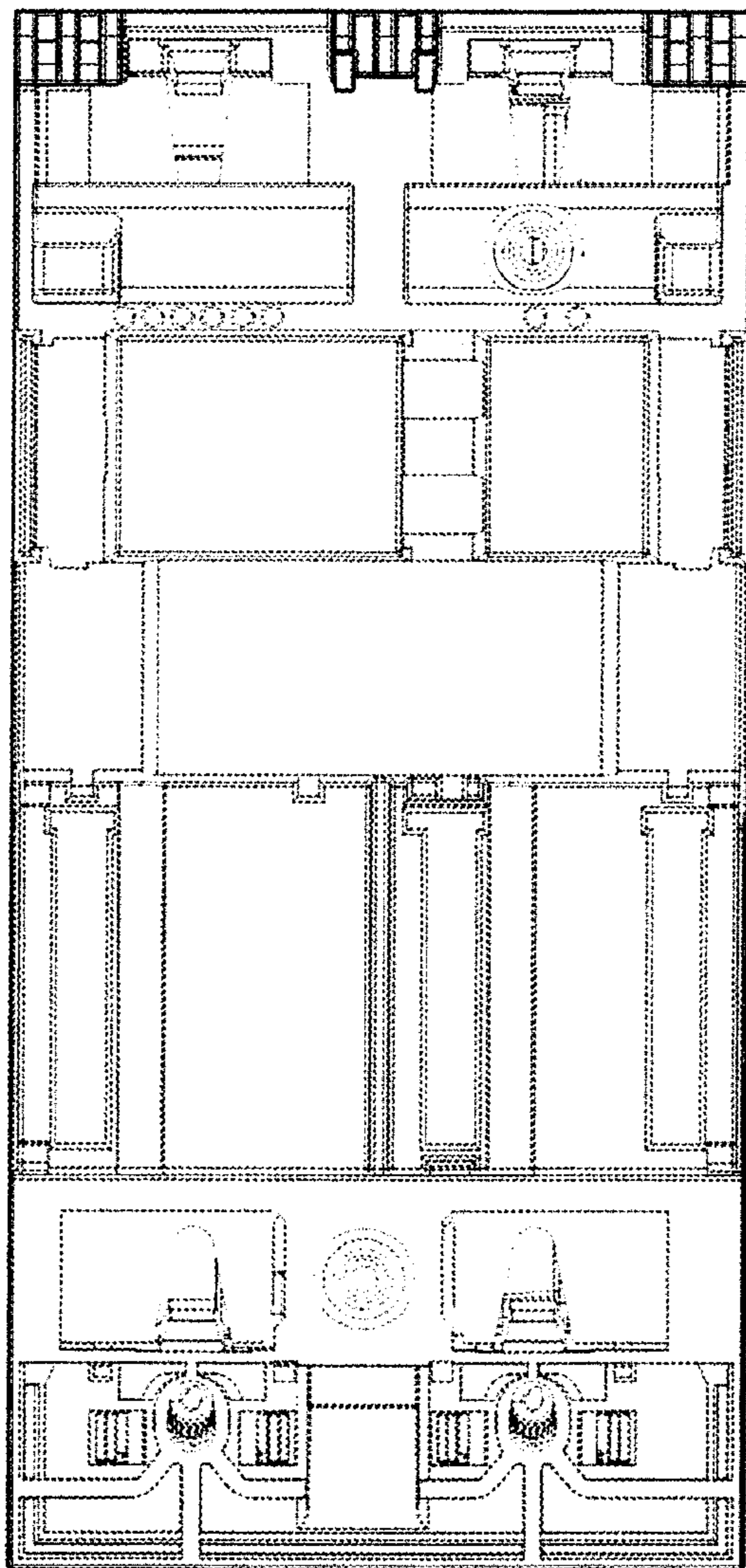


FIG 3

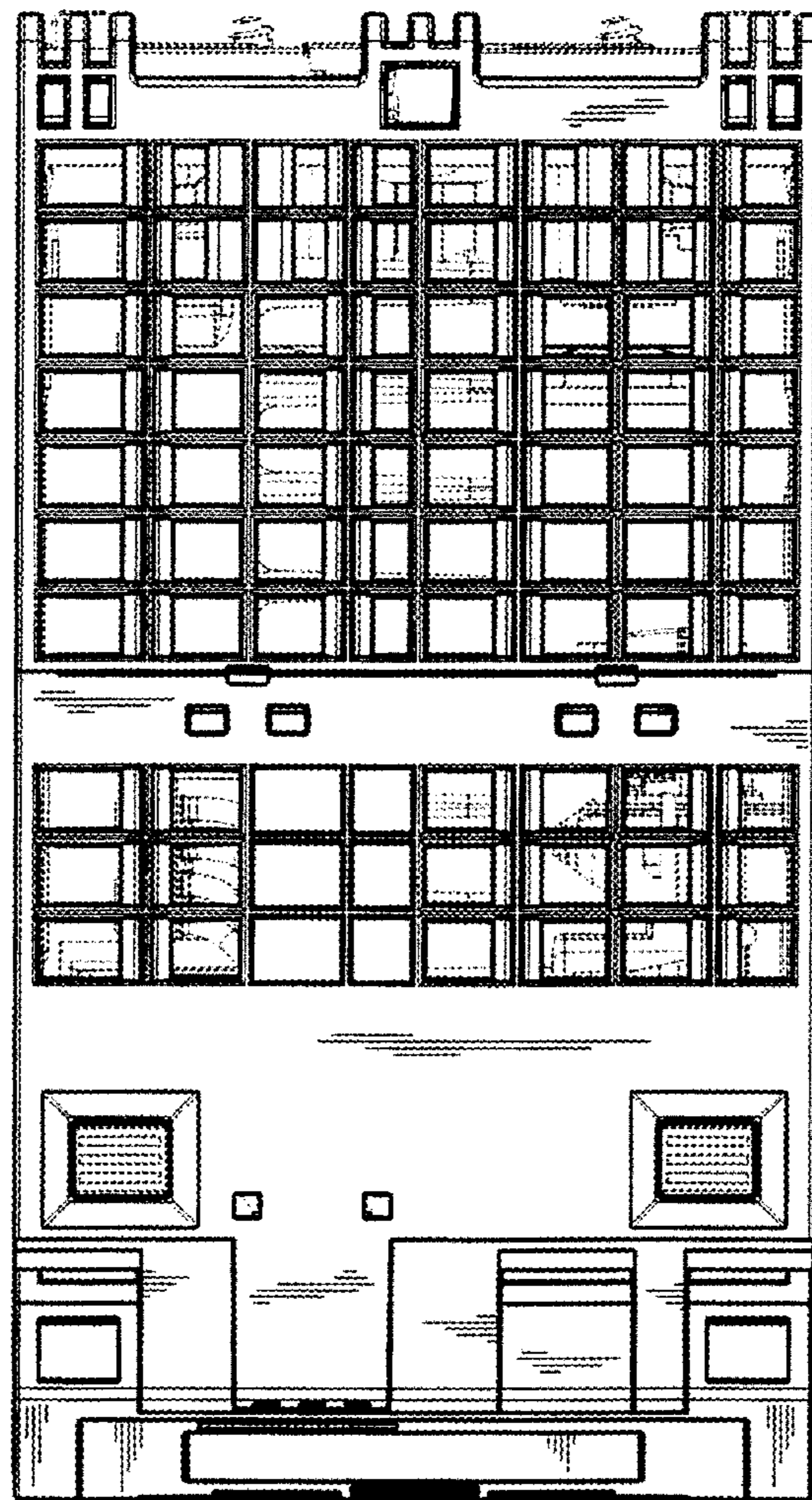


FIG 4

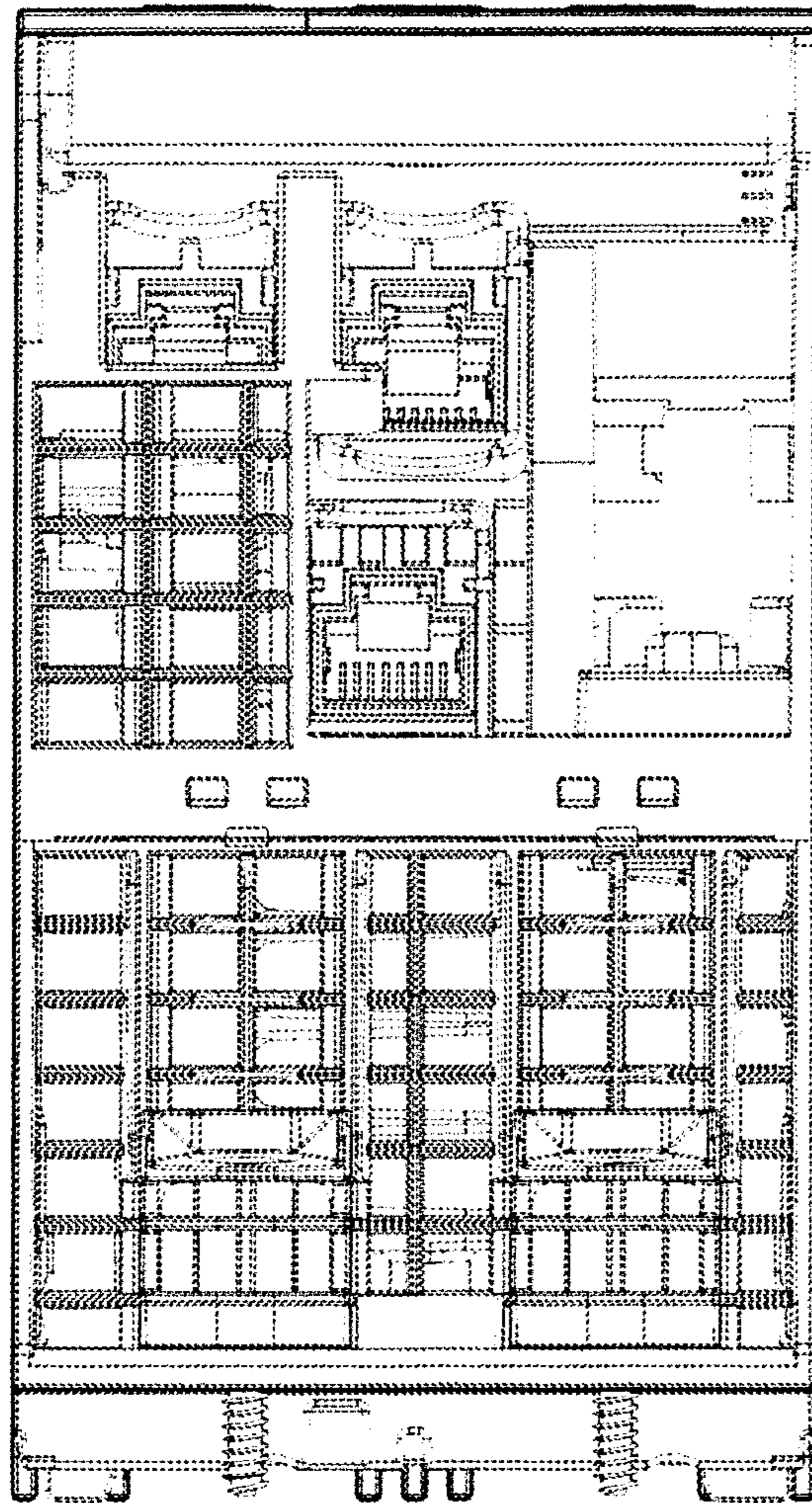


FIG 5

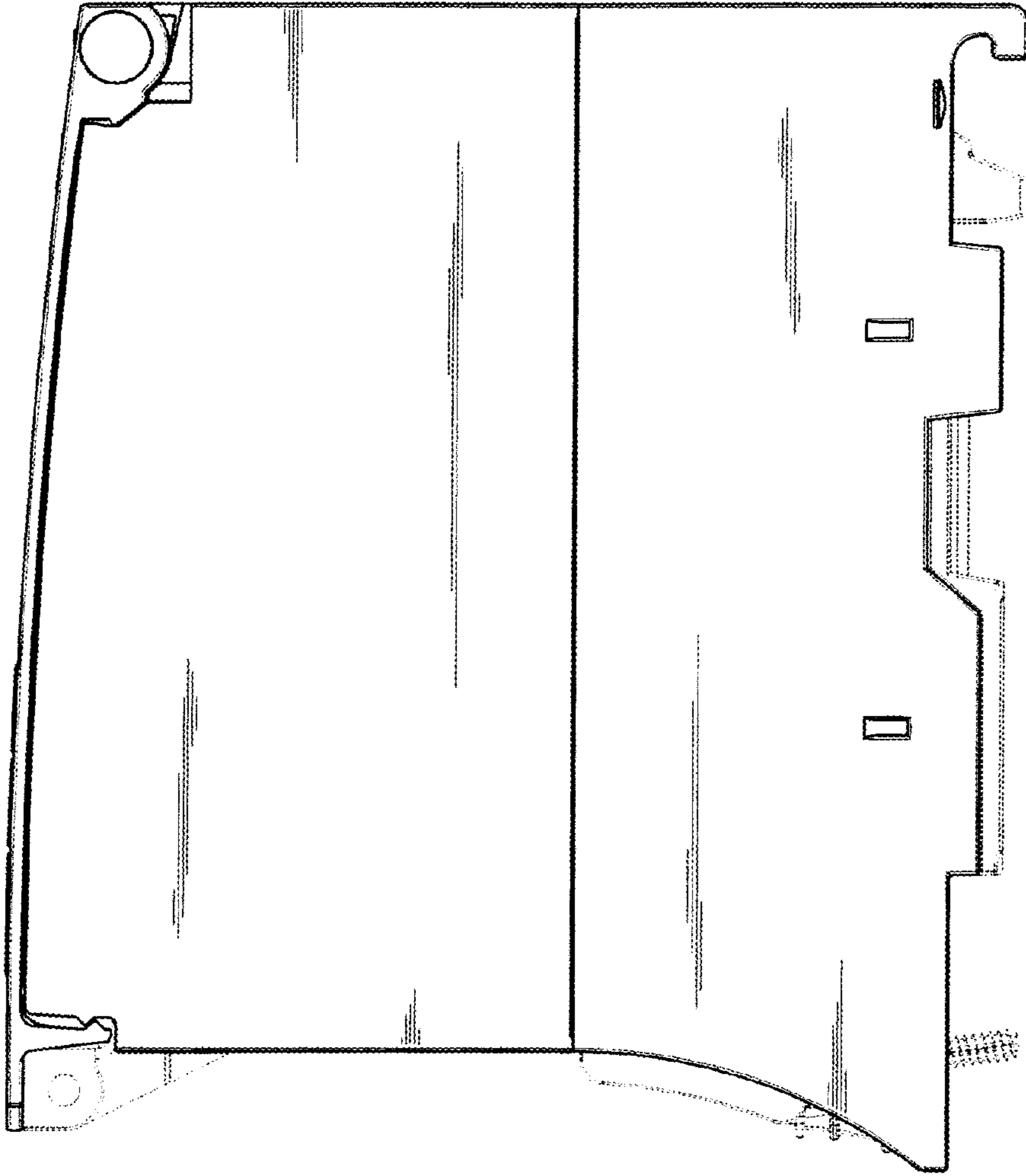


FIG 6

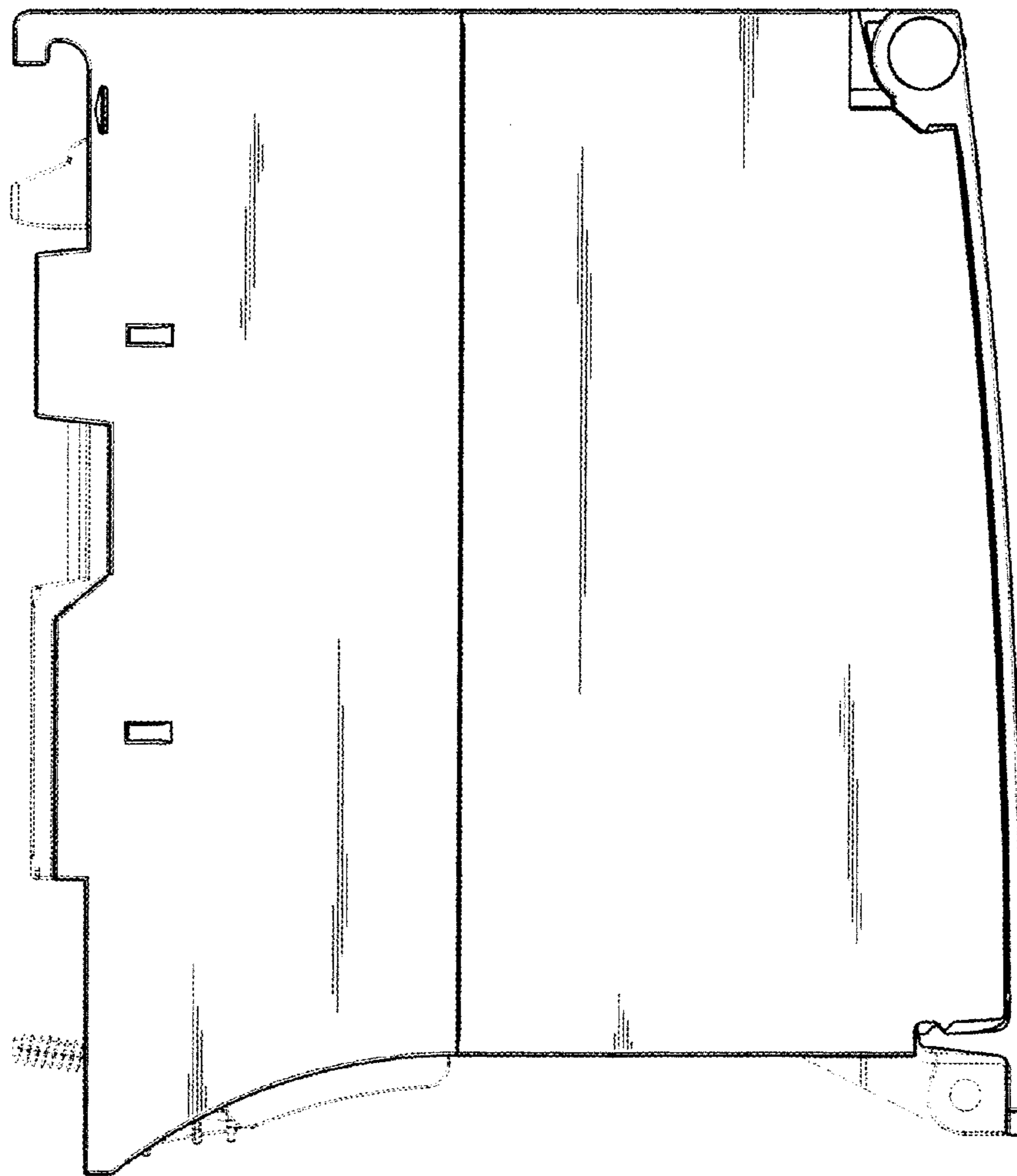




FIG 7

