



US00D403685S

United States Patent [19]

Kobayashi et al.

[11] Patent Number: Des. 403,685

[45] Date of Patent: **Jan. 5, 1999

[54] WIRE SAW HOUSING

[75] Inventors: **Shigeo Kobayashi; Yasuhiro Ito**, both of Yokohama, Japan

[73] Assignee: **Nippei Toyama Corporation**, Tokyo, Japan

[**] Term: **14 Years**

[21] Appl. No.: **64,300**

[22] Filed: **Mar. 20, 1997**

[30] Foreign Application Priority Data

Jun. 28, 1996	[JP]	Japan	8-19227
Dec. 6, 1996	[JP]	Japan	8-37121
Dec. 6, 1996	[JP]	Japan	8-37122
Dec. 6, 1996	[JP]	Japan	8-37123
Dec. 6, 1996	[JP]	Japan	8-37124
Dec. 6, 1996	[JP]	Japan	8-37125
Dec. 6, 1996	[JP]	Japan	8-37126
Dec. 6, 1996	[JP]	Japan	8-37127
Dec. 6, 1996	[JP]	Japan	8-37128
Dec. 6, 1996	[JP]	Japan	8-37129
Dec. 6, 1996	[JP]	Japan	8-37130
Dec. 6, 1996	[JP]	Japan	8-37131
Dec. 6, 1996	[JP]	Japan	8-37132
Dec. 6, 1996	[JP]	Japan	8-37133

[51] LOC (6) Cl. **15-09**

[52] U.S. Cl. **D15/133**

[58] Field of Search D15/133; 83/651.1, 83/387.1, 785, 788; 125/12, 21, 16.01, 22; 451/296, 526

[56] References Cited

U.S. PATENT DOCUMENTS

D. 336,749 6/1993 Lenard et al. D15/133 X

Primary Examiner—Antoine Duval Davis
Attorney, Agent, or Firm—Stetina Brunda Garred & Brucker

[57] CLAIM

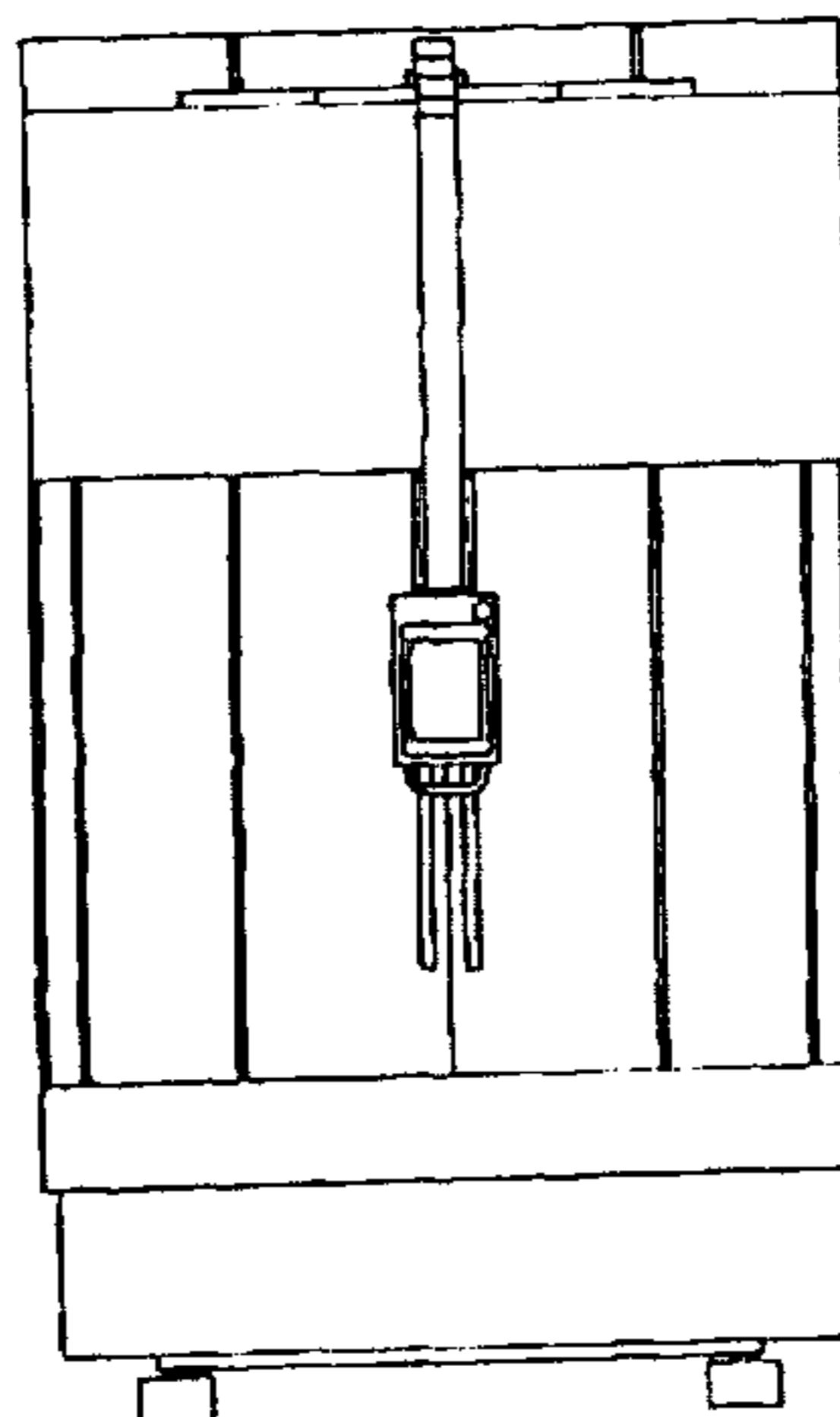
The ornamental design for a wire saw housing, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a wire saw housing;

FIG. 2 is a rear elevational view thereof;
 FIG. 3 is a bottom plan view thereof;
 FIG. 4 is a top plan view thereof;
 FIG. 5 is a right side elevational view thereof;
 FIG. 6 is a left side elevational view thereof;
 FIG. 7 is a front perspective view thereof;
 FIG. 8 is a rear perspective view thereof; and
 FIG. 9 is a front perspective view thereof with the front doors opened;
 FIG. 10 is a front elevational view of a second embodiment of the wire saw housing;
 FIG. 11 is a rear elevational view thereof;
 FIG. 12 is a top plan view thereof;
 FIG. 13 is a bottom plan view thereof;
 FIG. 14 is a right side elevational view thereof;
 FIG. 15 is a left side elevational view thereof;
 FIG. 16 is a front perspective view thereof;
 FIG. 17 is a rear perspective view thereof; and
 FIG. 18 is a front perspective view thereof with the front doors opened;
 FIG. 19 is a front elevational view of a third embodiment of the wire saw housing;
 FIG. 20 is a rear elevational view thereof;
 FIG. 21 is a top plan view thereof;
 FIG. 22 is a bottom plan view thereof;
 FIG. 23 is a right side elevational view thereof;
 FIG. 24 is a left side elevational view thereof;
 FIG. 25 is a front perspective view thereof;
 FIG. 26 is a rear perspective view thereof; and
 FIG. 27 is a front perspective view thereof with the front doors opened;
 FIG. 28 is a front elevational view of a fourth embodiment of the wire saw housing;
 FIG. 29 is a rear elevational view thereof;
 FIG. 30 is a top plan view thereof;
 FIG. 31 is a bottom plan view thereof;
 FIG. 32 is a right side elevational view thereof;
 FIG. 33 is a left side elevational view thereof;
 FIG. 34 is a front perspective view thereof;
 FIG. 35 is a rear perspective view thereof; and
 FIG. 36 is a front perspective view of a thereof with the front doors opened;
 FIG. 37 is a front elevational view of a fifth embodiment of the wire saw housing;

(List continued on next page.)



DESCRIPTION

FIG. 38 is a rear elevational view thereof;
 FIG. 39 is a top plan view thereof;
 FIG. 40 is a bottom plan view thereof;
 FIG. 41 is a right side elevational view thereof, the left side elevational view being a mirror image of FIG. 41;
 FIG. 42 is a front perspective view thereof;
 FIG. 43 is a rear perspective view thereof; and
 FIG. 44 is a front perspective view thereof with the front doors opened;
 FIG. 45 is a front elevational view of a sixth embodiment of the wire saw housing;
 FIG. 46 is a rear elevational view thereof;
 FIG. 47 is a top plan view thereof;
 FIG. 48 is a bottom plan view thereof;
 FIG. 49 is a right side elevational view thereof;
 FIG. 50 is a left side elevational view thereof;
 FIG. 51 is a front perspective view thereof;
 FIG. 52 is a rear perspective view thereof; and
 FIG. 53 is a front perspective view thereof with the front doors opened;
 FIG. 54 is a front elevational view of a seventh embodiment of the wire saw housing;
 FIG. 55 is a rear elevational view thereof;
 FIG. 56 is a top plan view thereof;
 FIG. 57 is a bottom plan view thereof;
 FIG. 58 is a right side elevational view thereof;
 FIG. 59 is a left side elevational view thereof;
 FIG. 60 is a front perspective view thereof;
 FIG. 61 is a rear perspective view thereof; and
 FIG. 62 is a front perspective view thereof with the front doors opened;
 FIG. 63 is a front elevational view of a eighth embodiment of the wire saw housing;
 FIG. 64 is a rear elevational view thereof;
 FIG. 65 is a top plan view thereof;
 FIG. 66 is a bottom plan view thereof;
 FIG. 67 is a right side elevational view thereof;
 FIG. 68 is a left side elevational view thereof;
 FIG. 69 is a front perspective view thereof;
 FIG. 70 is a rear perspective view thereof; and
 FIG. 71 is a front perspective view thereof with the front doors opened;
 FIG. 72 is a front elevational view of a ninth embodiment of the wire saw housing;
 FIG. 73 is a rear elevational view thereof;
 FIG. 74 is a top plan view thereof;
 FIG. 75 is a bottom plan view thereof;
 FIG. 76 is a right side elevational view thereof, the left side elevational view being a mirror image of FIG. 76;
 FIG. 77 is a front perspective view thereof;
 FIG. 78 is a rear perspective view thereof; and
 FIG. 79 is a front perspective view thereof with the front doors opened;
 FIG. 80 is a front elevational view of a tenth embodiment of the wire saw housing;

FIG. 81 is a rear elevational view thereof;
 FIG. 82 is a top plan view thereof;
 FIG. 83 is a bottom plan view thereof;
 FIG. 84 is a right side elevational view thereof;
 FIG. 85 is a left side elevational view thereof;
 FIG. 86 is a front perspective view thereof;
 FIG. 87 is a rear perspective view thereof; and
 FIG. 88 is a front perspective view thereof with the front doors opened;
 FIG. 89 is a front elevational view of a eleventh embodiment of the wire saw housing;
 FIG. 90 is a rear elevational view thereof;
 FIG. 91 is a top plan view thereof;
 FIG. 92 is a bottom plan view thereof;
 FIG. 93 is a right side elevational view thereof;
 FIG. 94 is a left side elevational view thereof;
 FIG. 95 is a front perspective view thereof;
 FIG. 96 is a rear perspective view thereof; and
 FIG. 97 is a front perspective view thereof with the front doors opened;
 FIG. 98 is a front elevational view of a twelfth embodiment of the wire saw housing;
 FIG. 99 is a rear elevational view thereof;
 FIG. 100 is a top plan view thereof;
 FIG. 101 is a bottom plan view thereof;
 FIG. 102 is a right side elevational view thereof;
 FIG. 103 is a left side elevational view thereof;
 FIG. 104 is a front perspective view thereof;
 FIG. 105 is a rear perspective view thereof; and
 FIG. 106 is a front perspective view thereof with the front doors opened;
 FIG. 107 is a front elevational view of a thirteenth embodiment of the wire saw housing;
 FIG. 108 is a rear elevational view thereof;
 FIG. 109 is a top plan view thereof;
 FIG. 110 is a bottom plan view thereof;
 FIG. 111 is a right side elevational view thereof;
 FIG. 112 is a left side elevational view thereof;
 FIG. 113 is a front perspective view thereof;
 FIG. 114 is a rear perspective view thereof; and
 FIG. 115 is a front perspective view thereof with the front doors opened;
 FIG. 116 is a front elevational view of a fourteenth embodiment of the wire saw housing;
 FIG. 117 is a rear elevational view thereof;
 FIG. 118 is a top plan view thereof;
 FIG. 119 is a bottom plan view thereof;
 FIG. 120 is a right side elevational view thereof;
 FIG. 121 is a left side elevational view thereof;
 FIG. 122 is a front perspective view thereof;
 FIG. 123 is a rear perspective view thereof; and
 FIG. 124 is a front perspective view thereof with the front doors opened.

Fig. 1

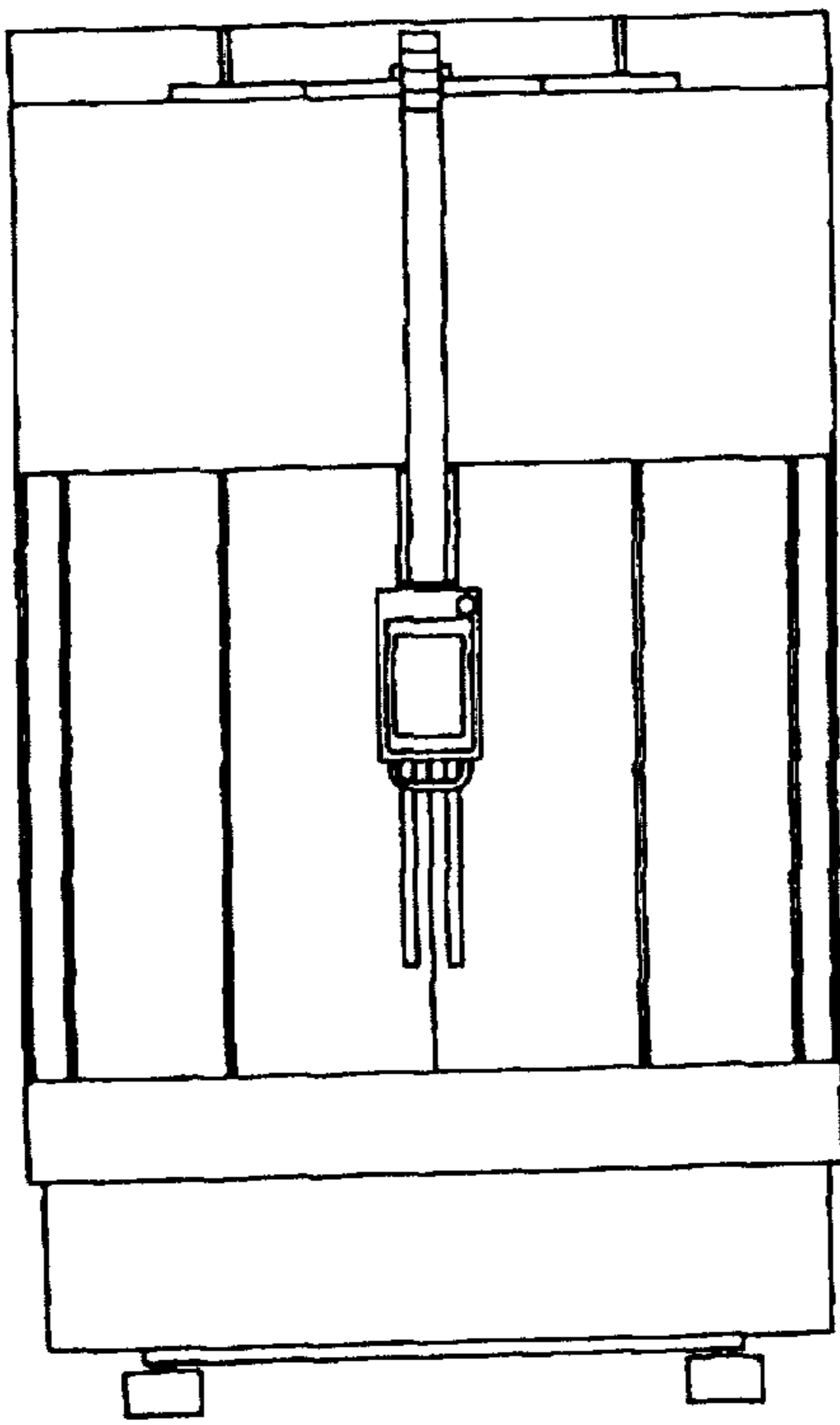


Fig. 2

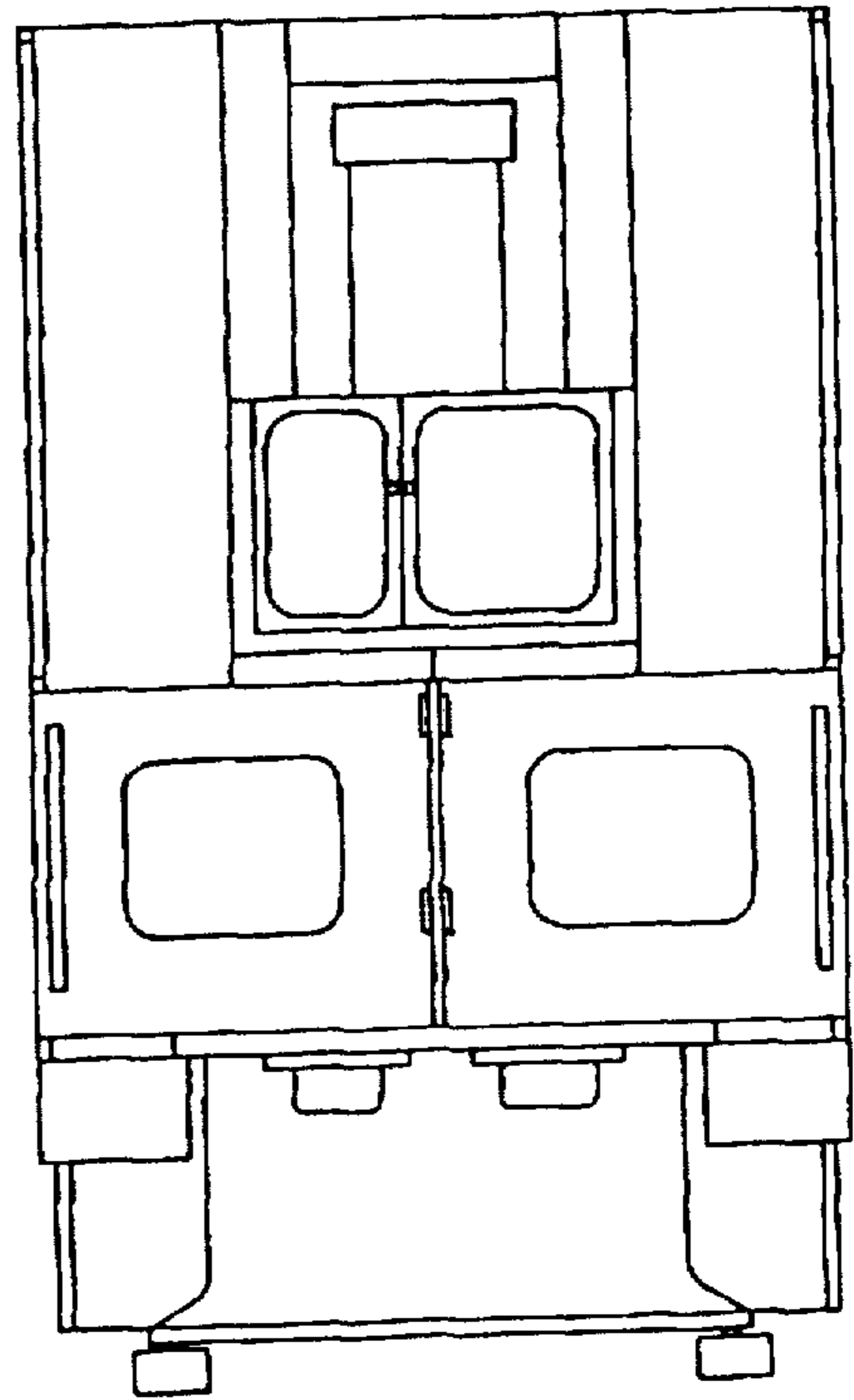


Fig. 3

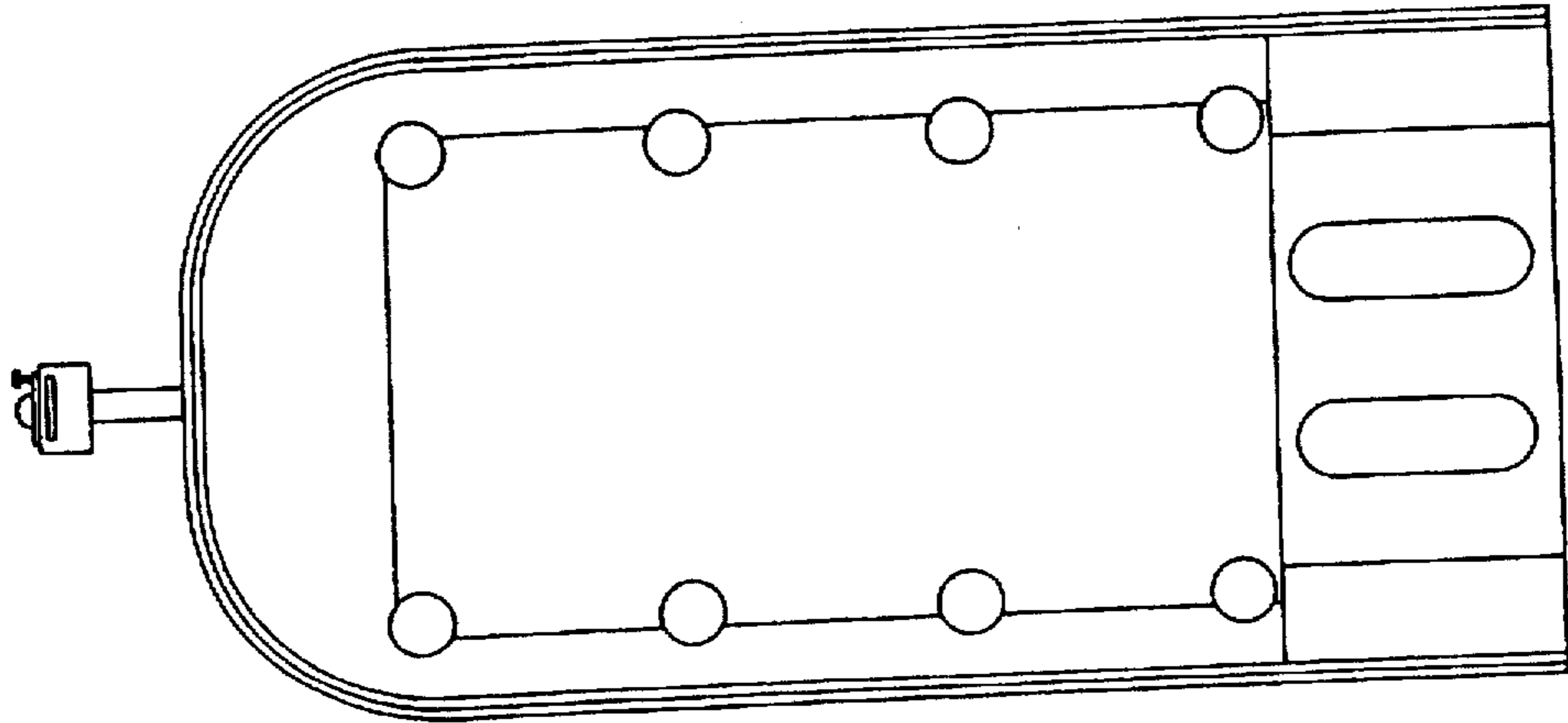


Fig. 4

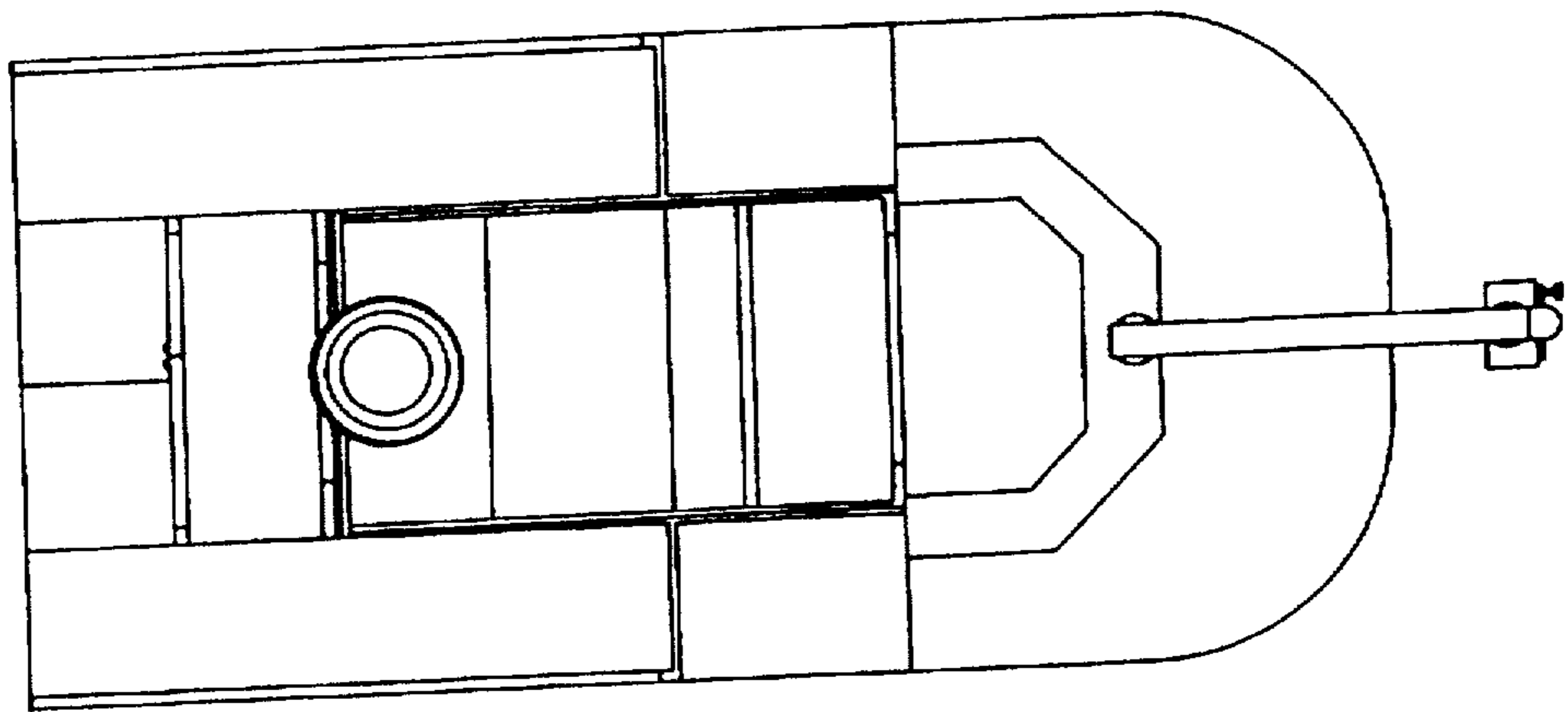


Fig. 5

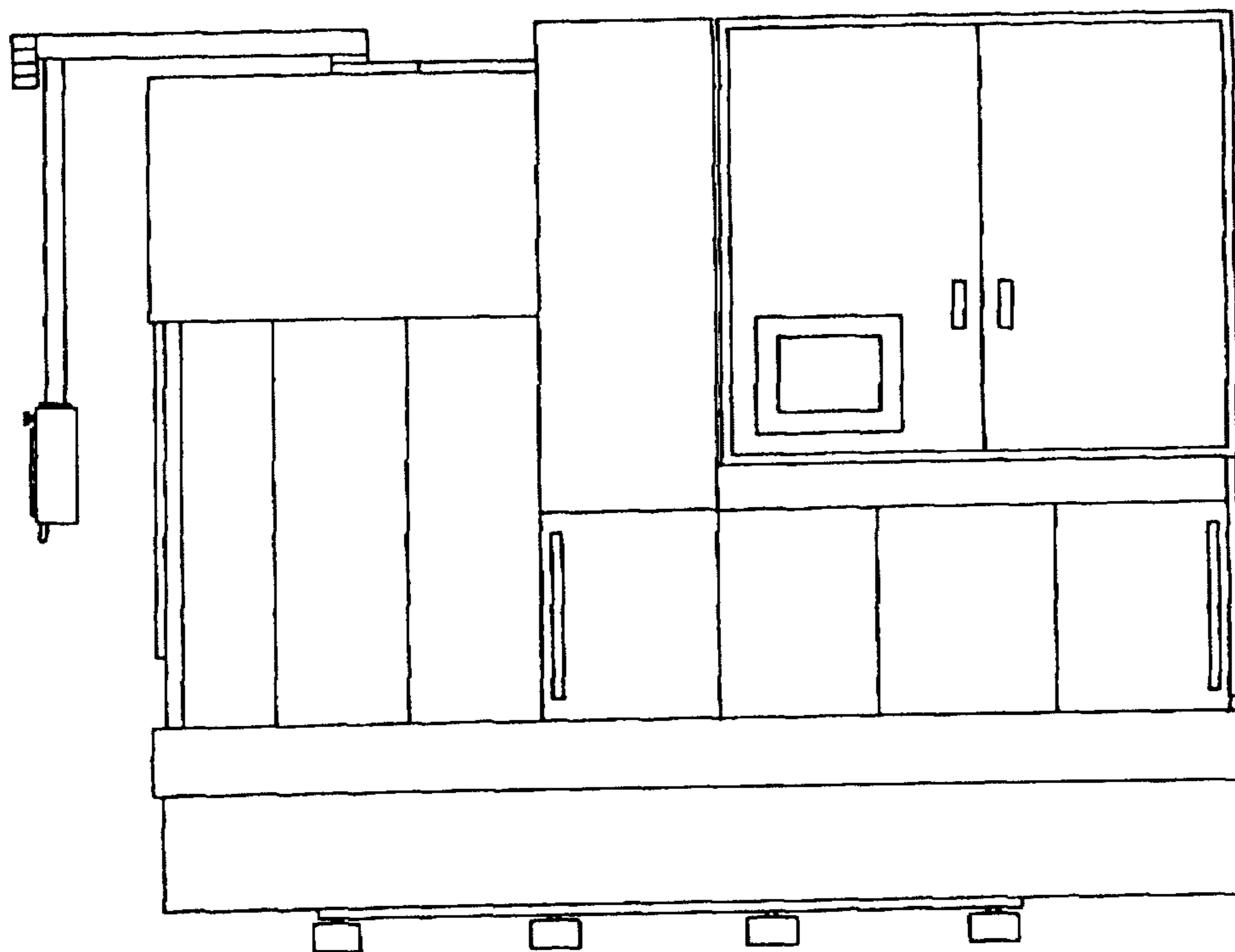


Fig. 6

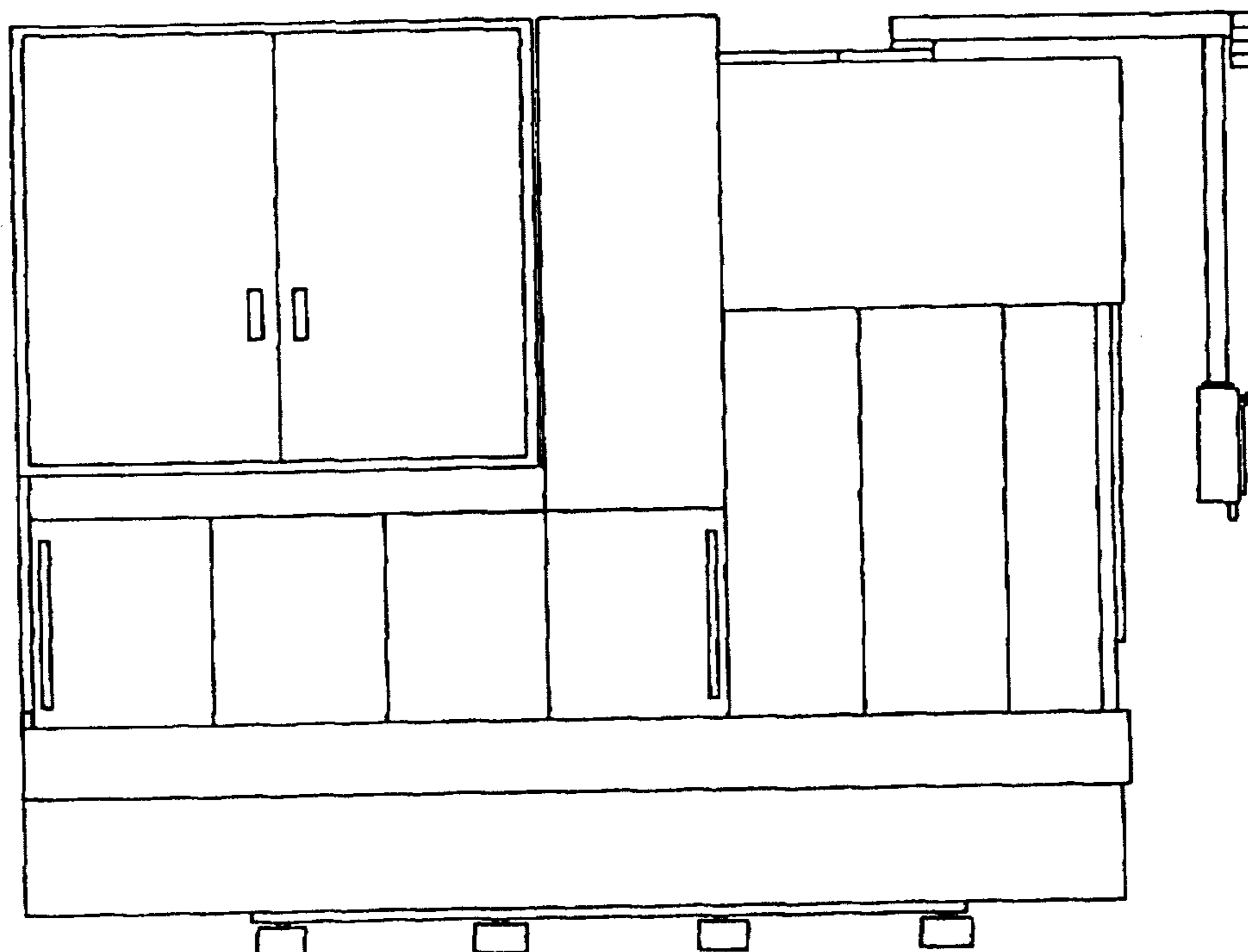


Fig. 7

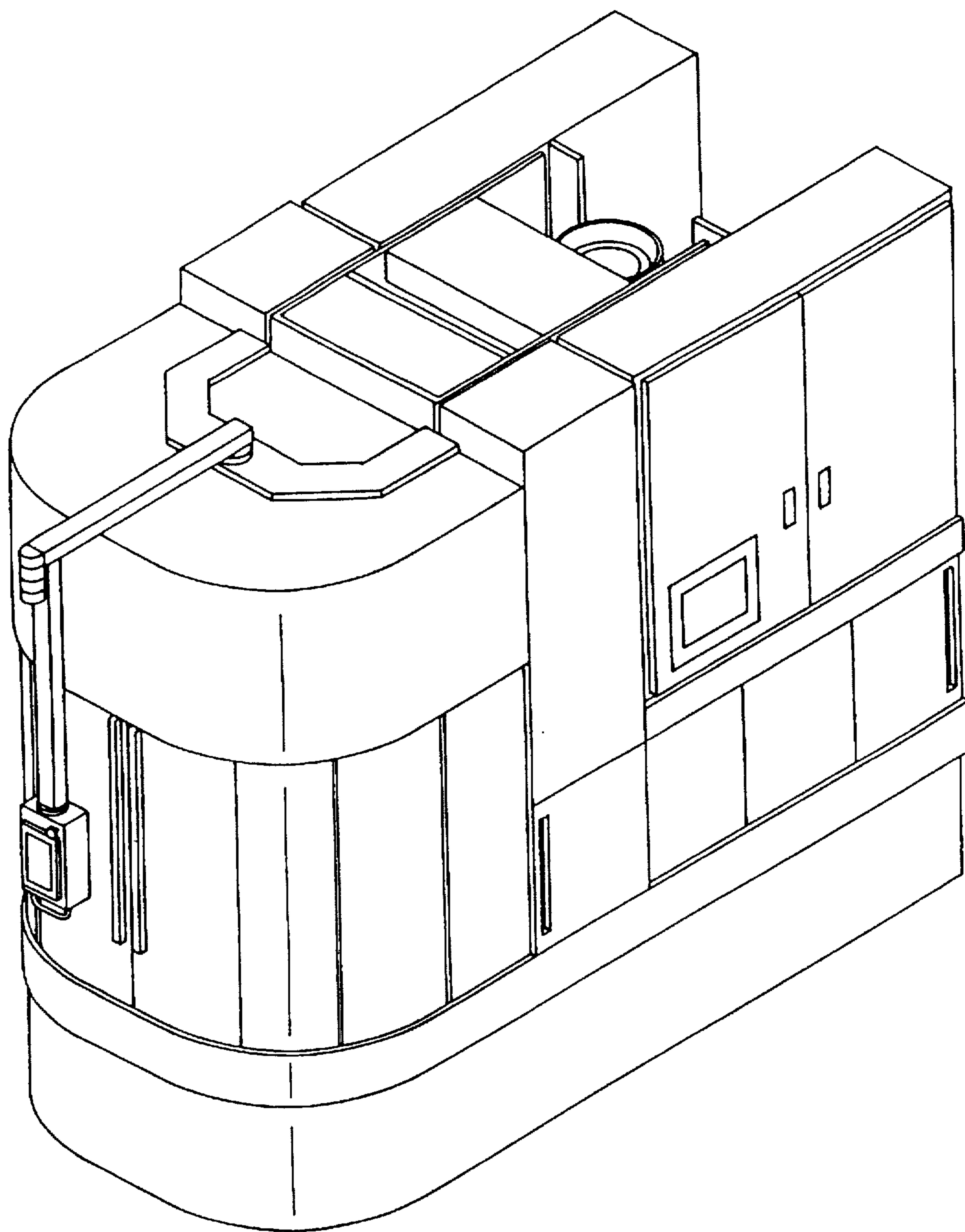


Fig. 8

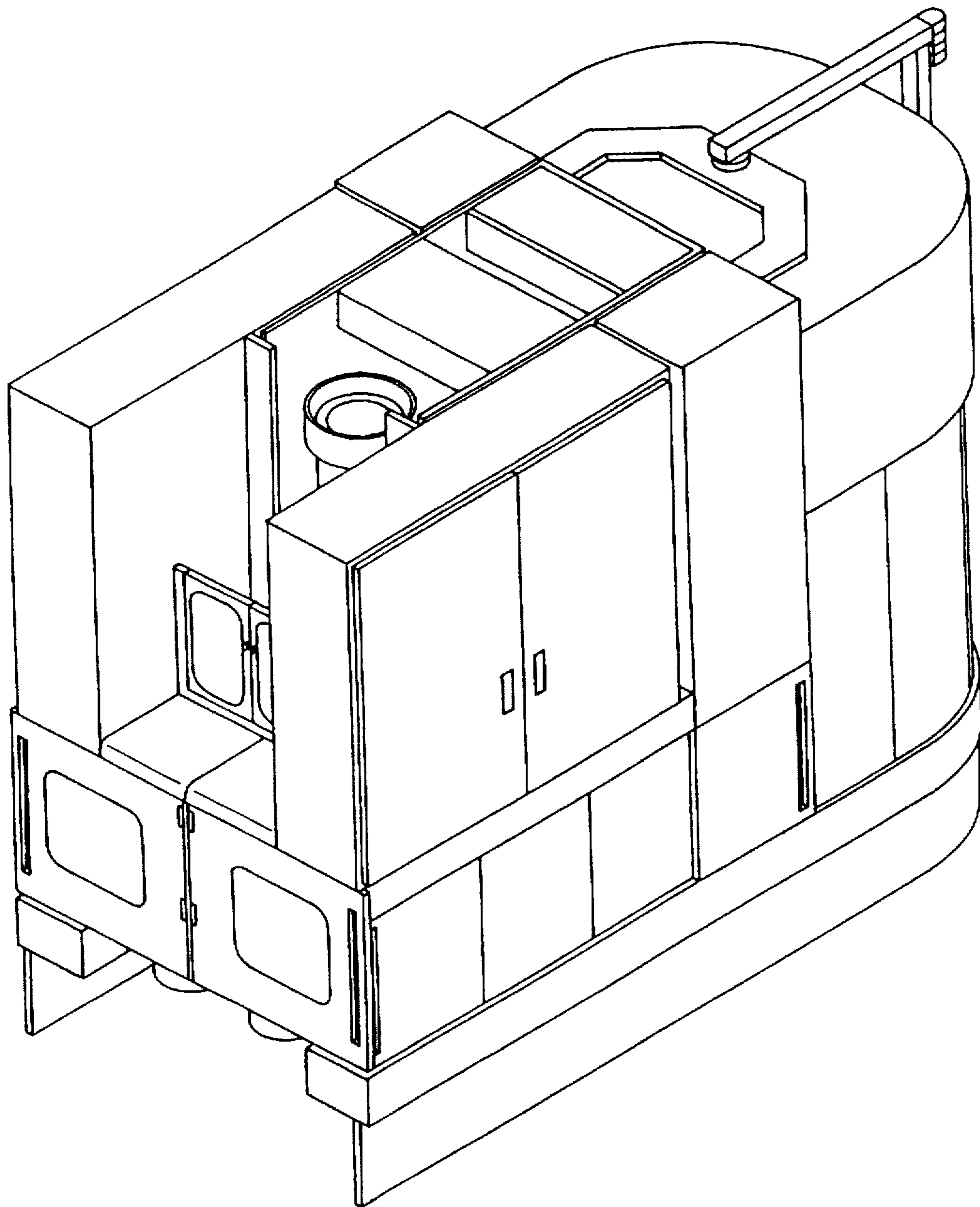


Fig. 9

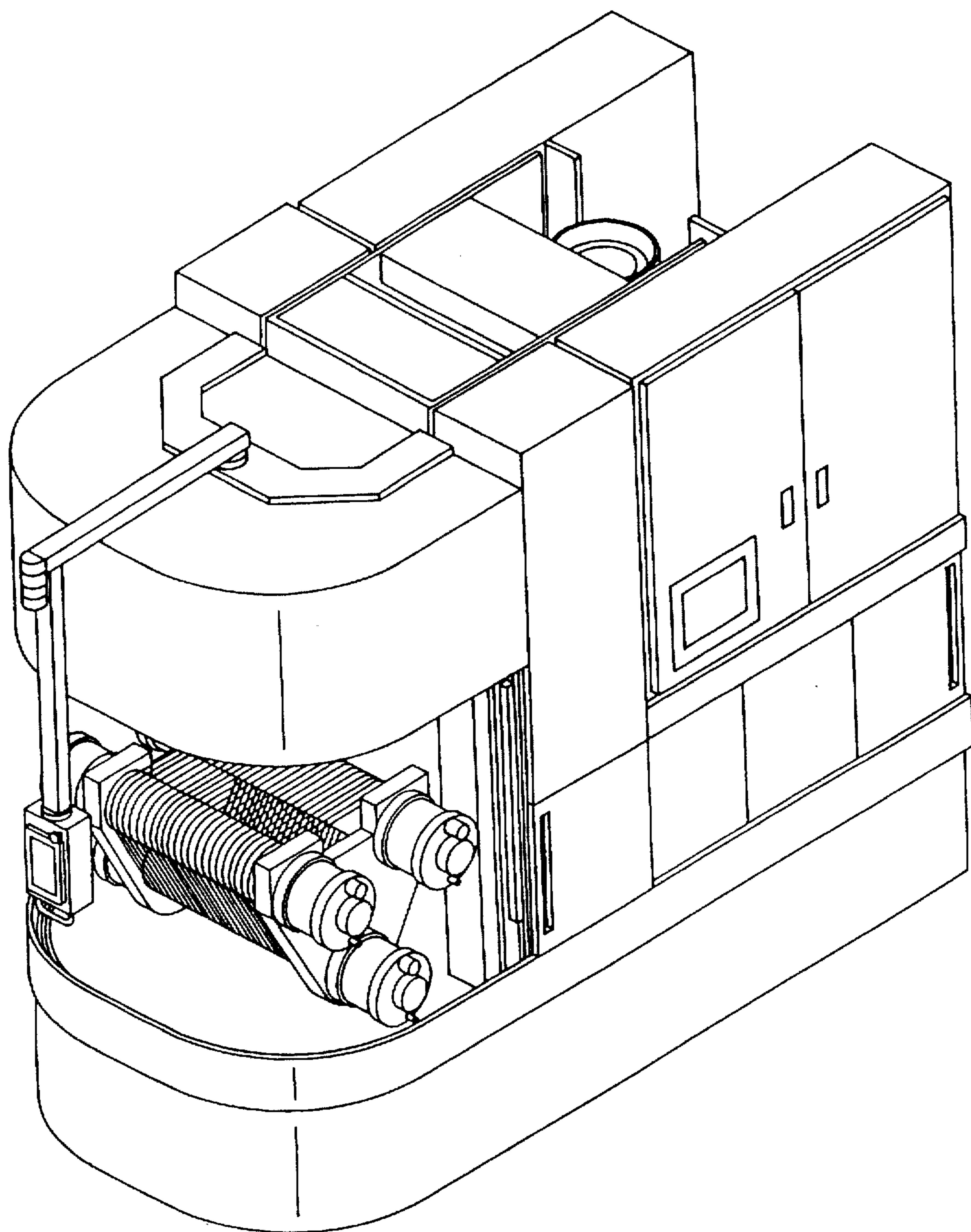


Fig. 10

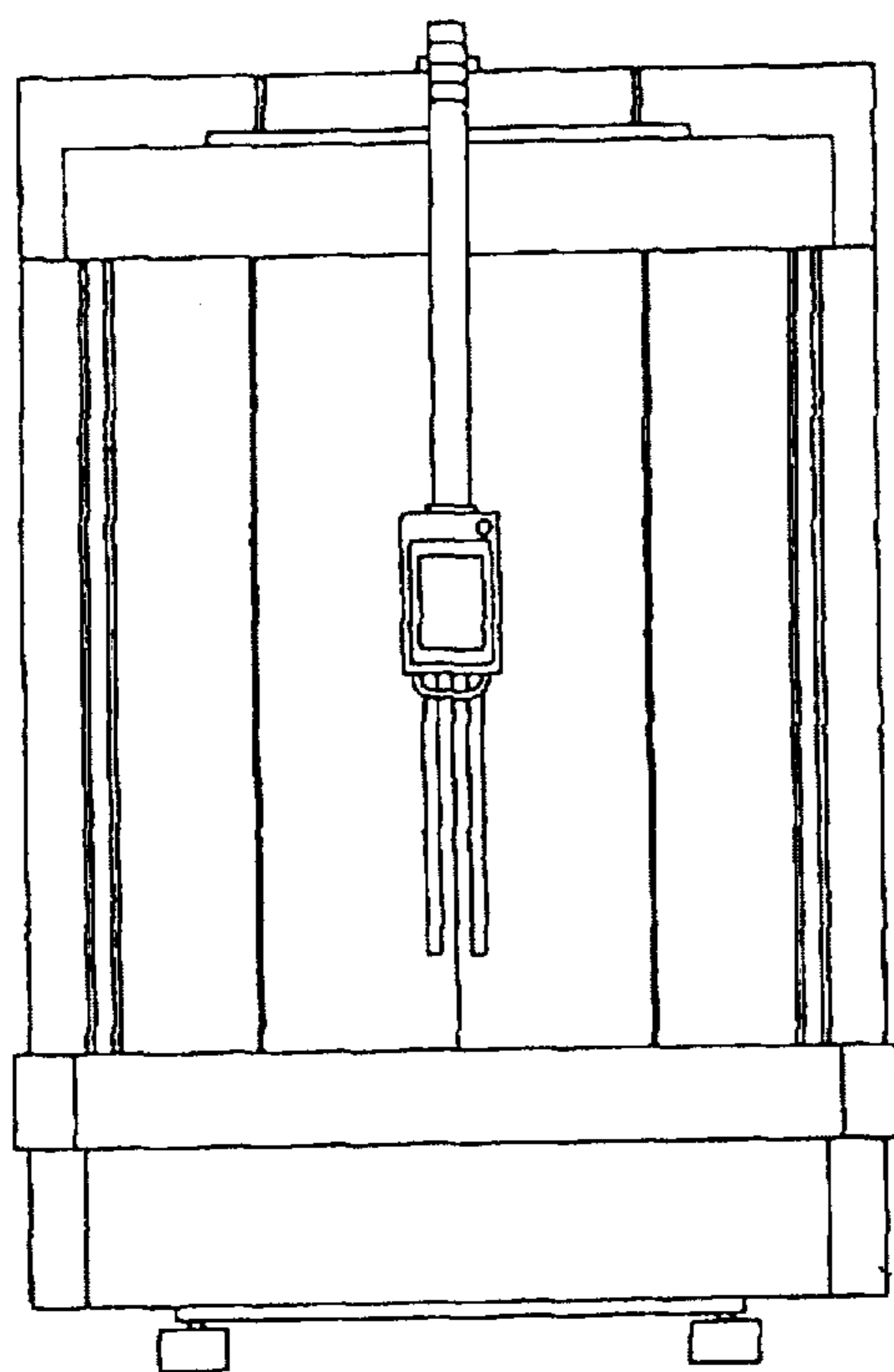


Fig. 11

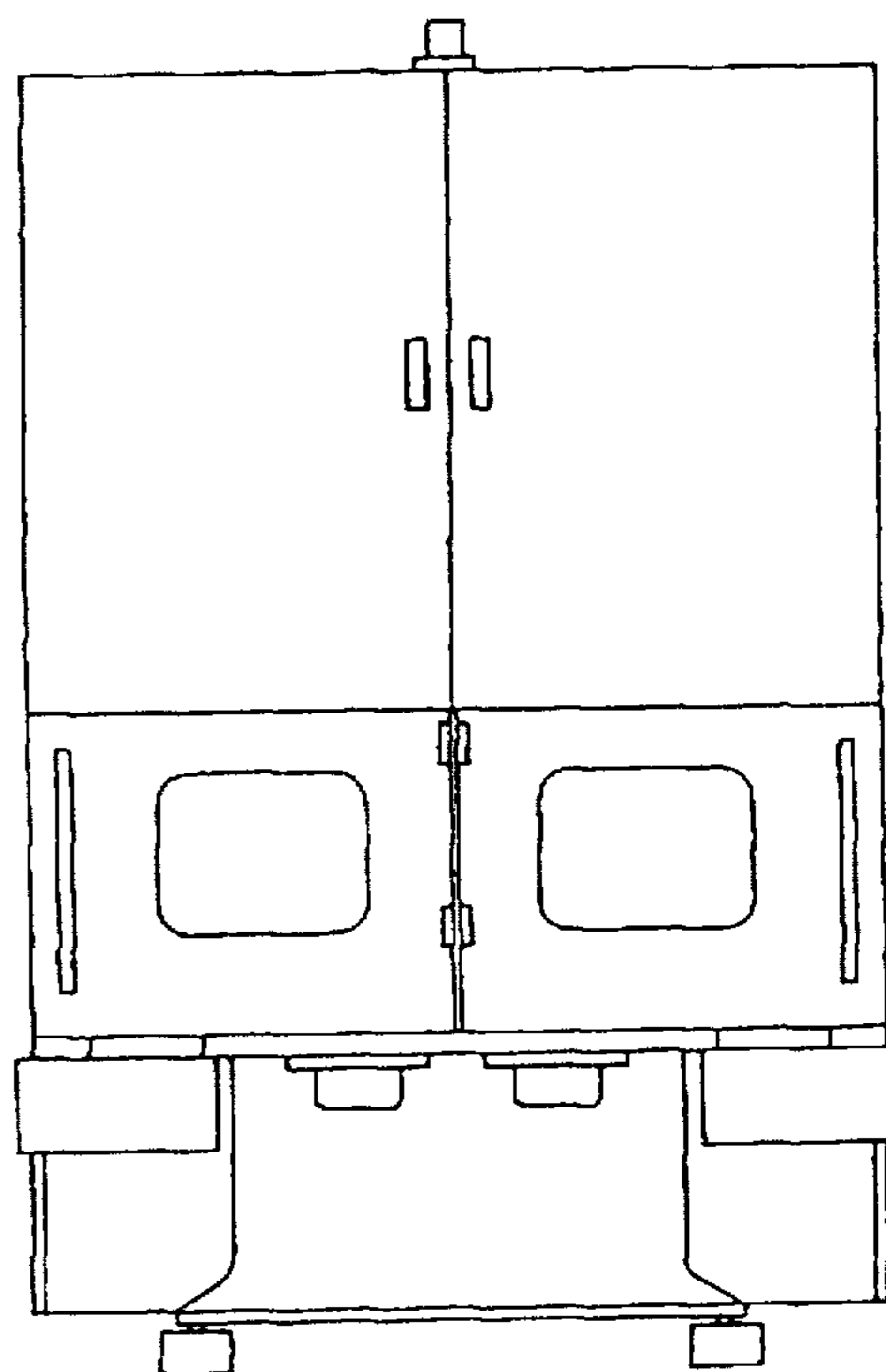


Fig. 12

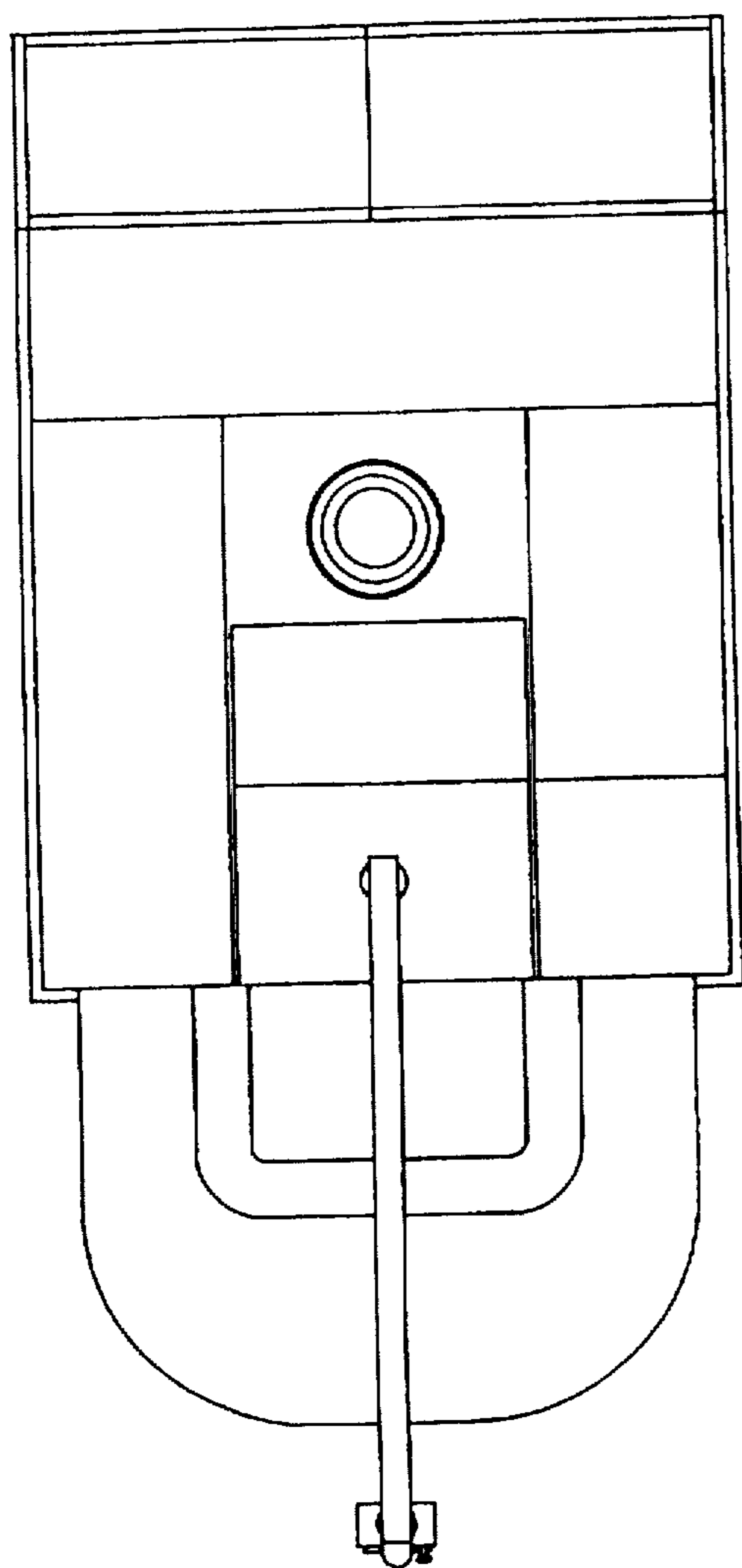


Fig. 13

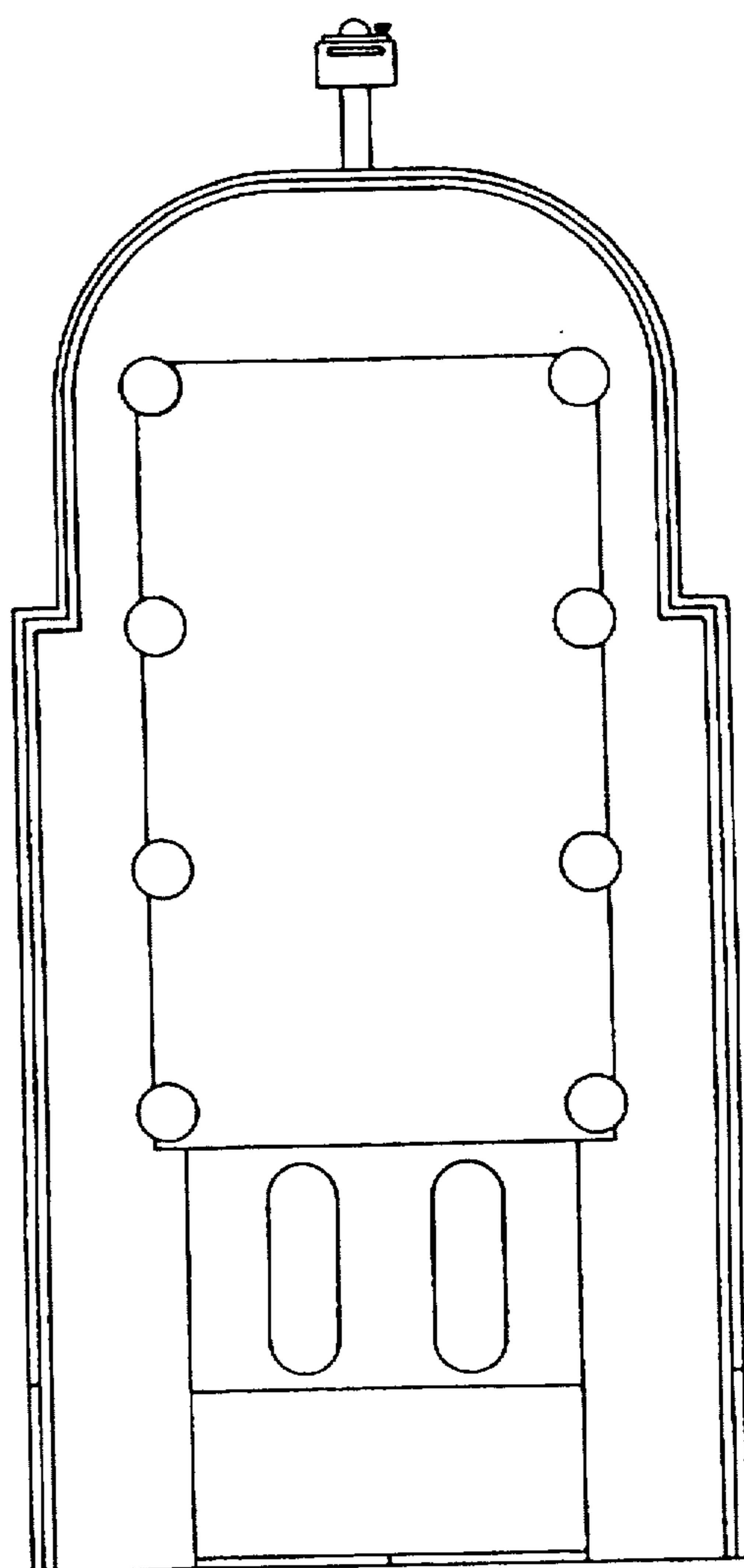


Fig. 14

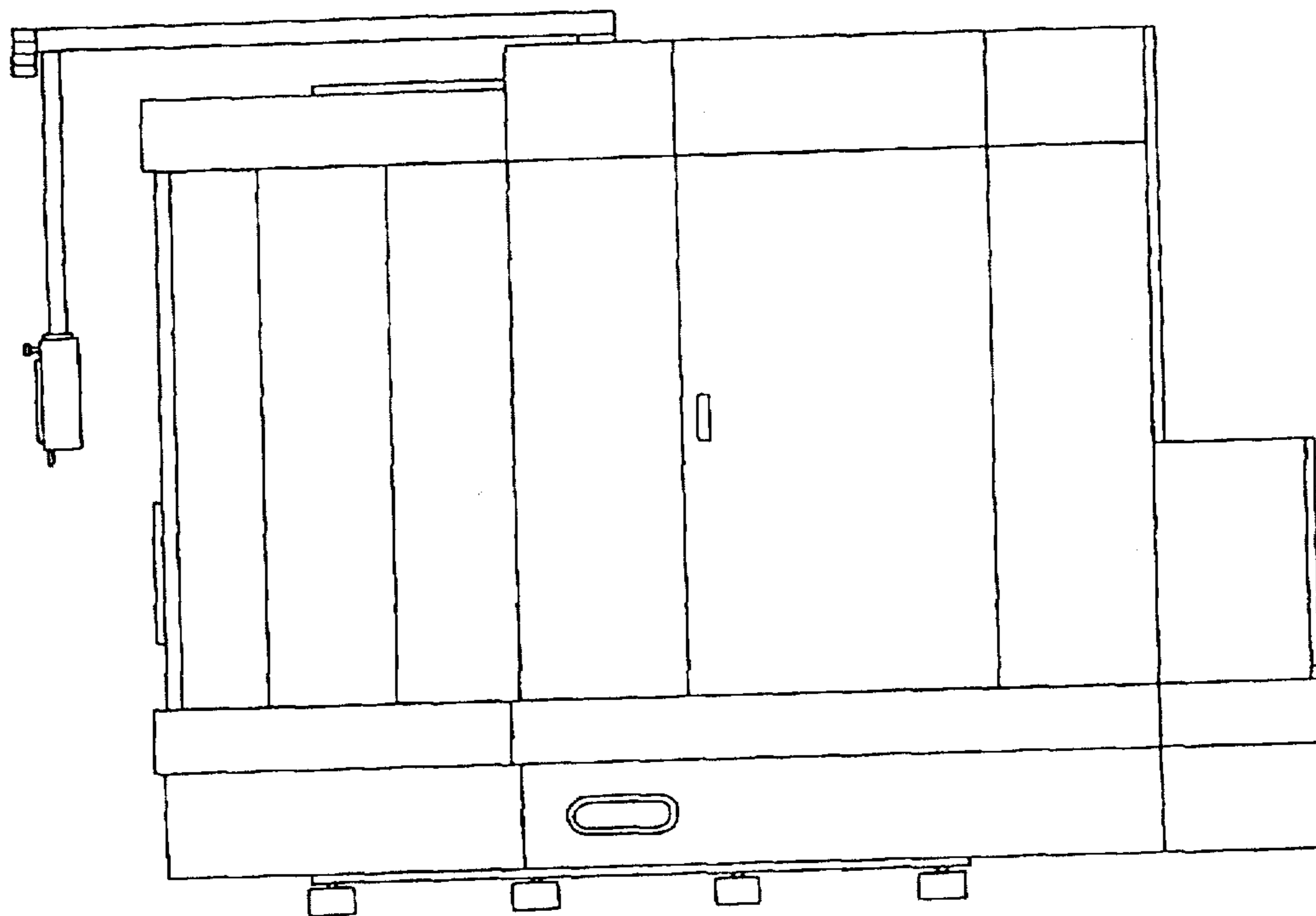


Fig. 15

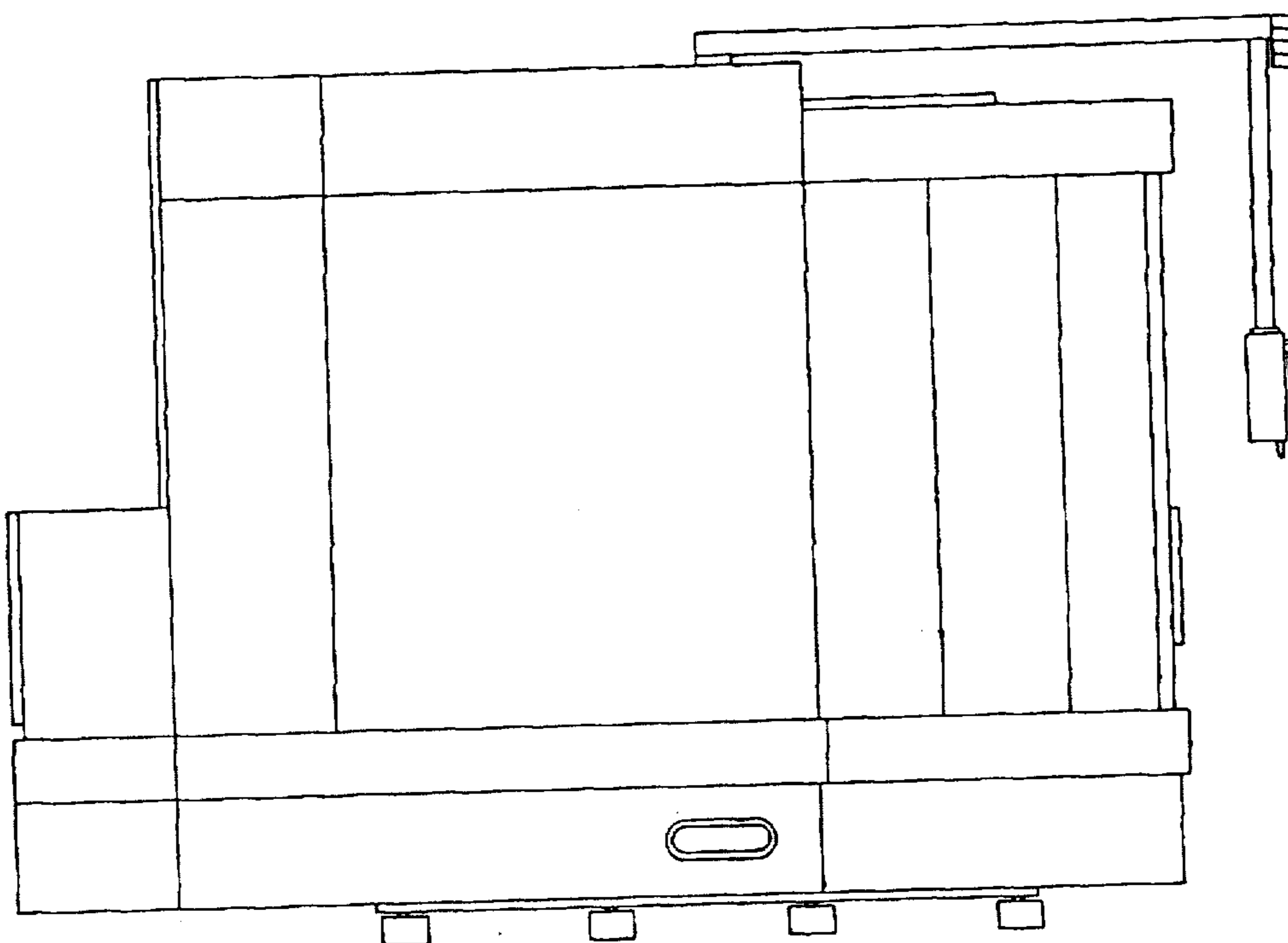


Fig. 16

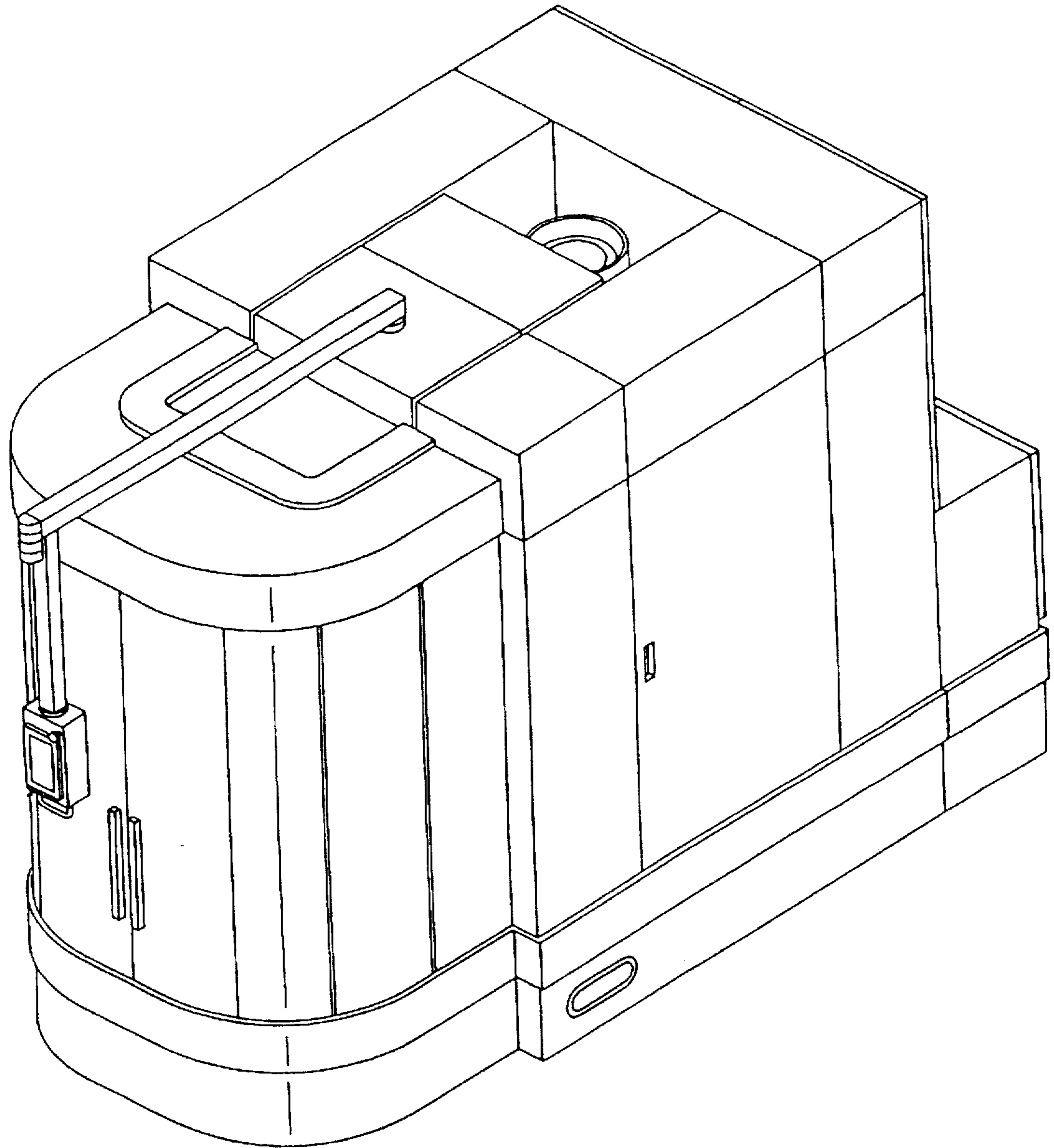


Fig. 17

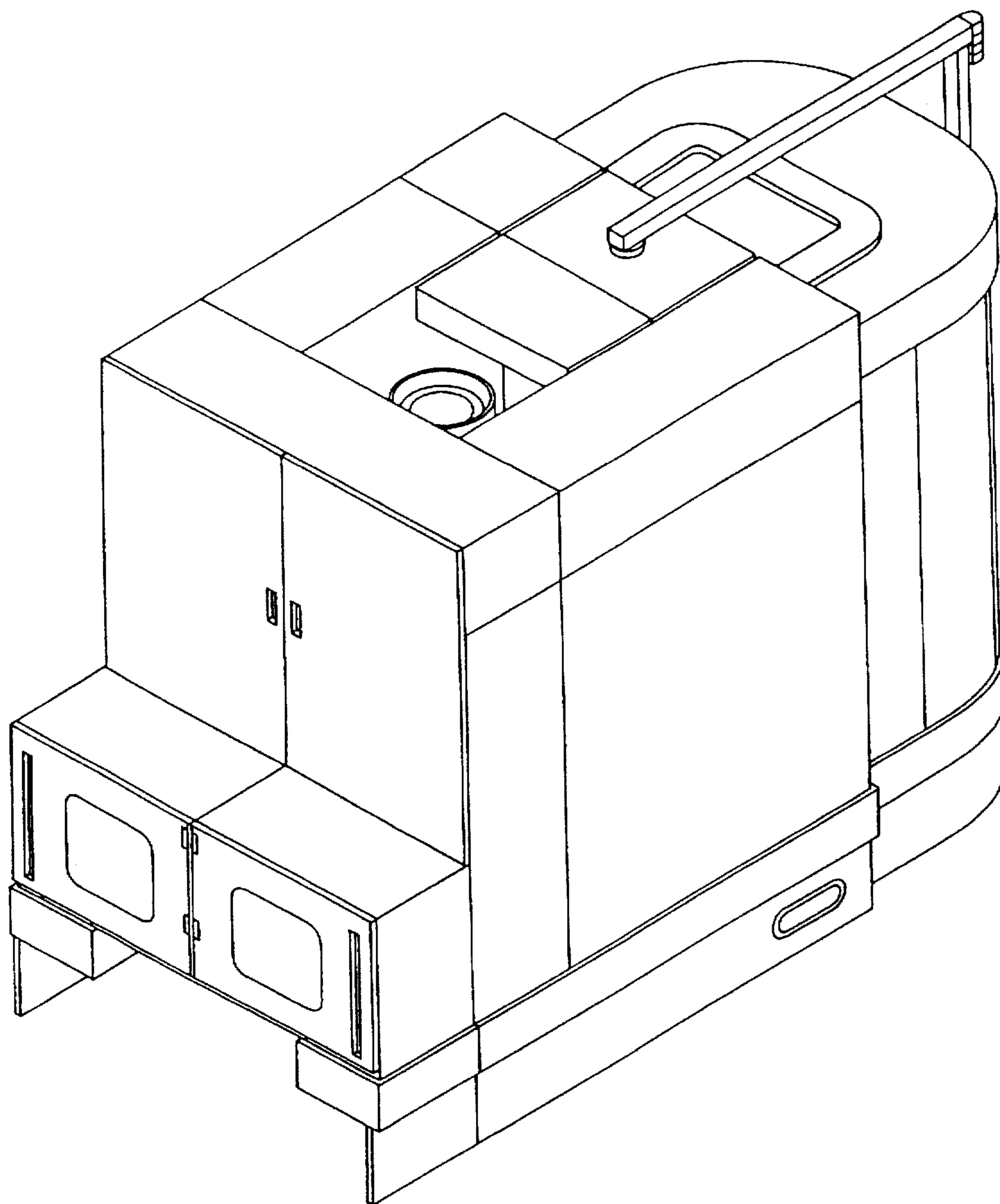


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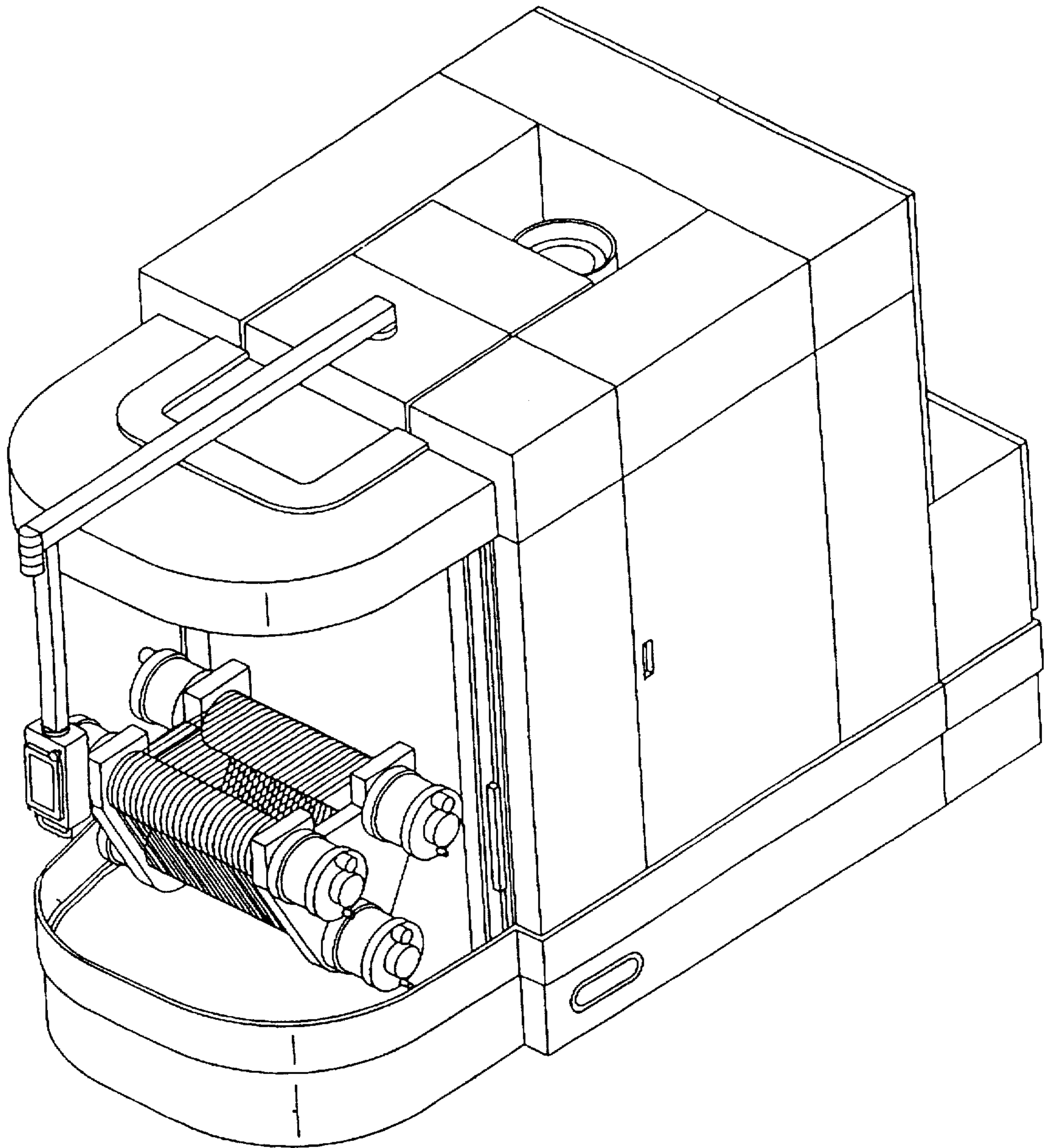


Fig. 19

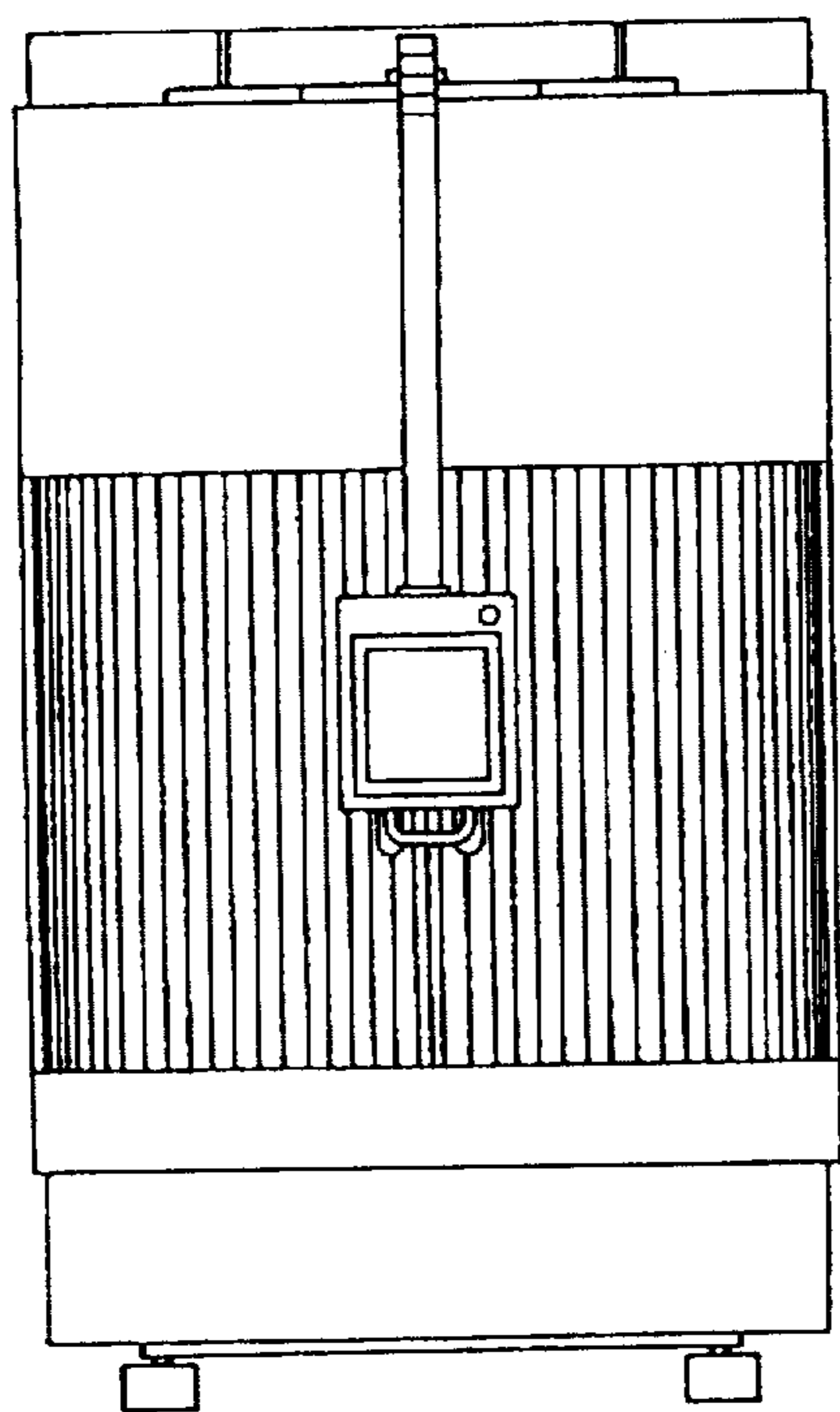


Fig. 20

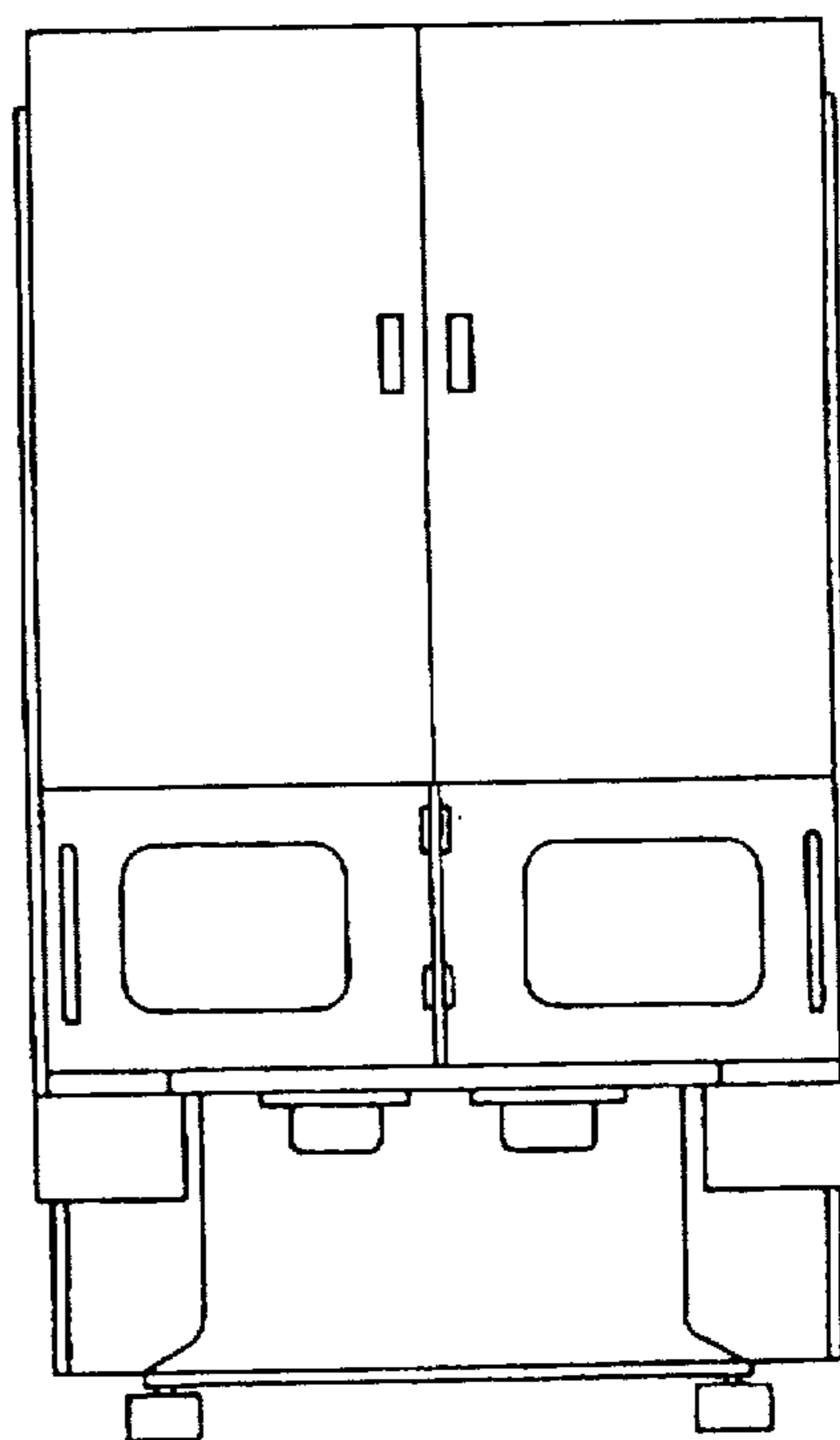


Fig. 21

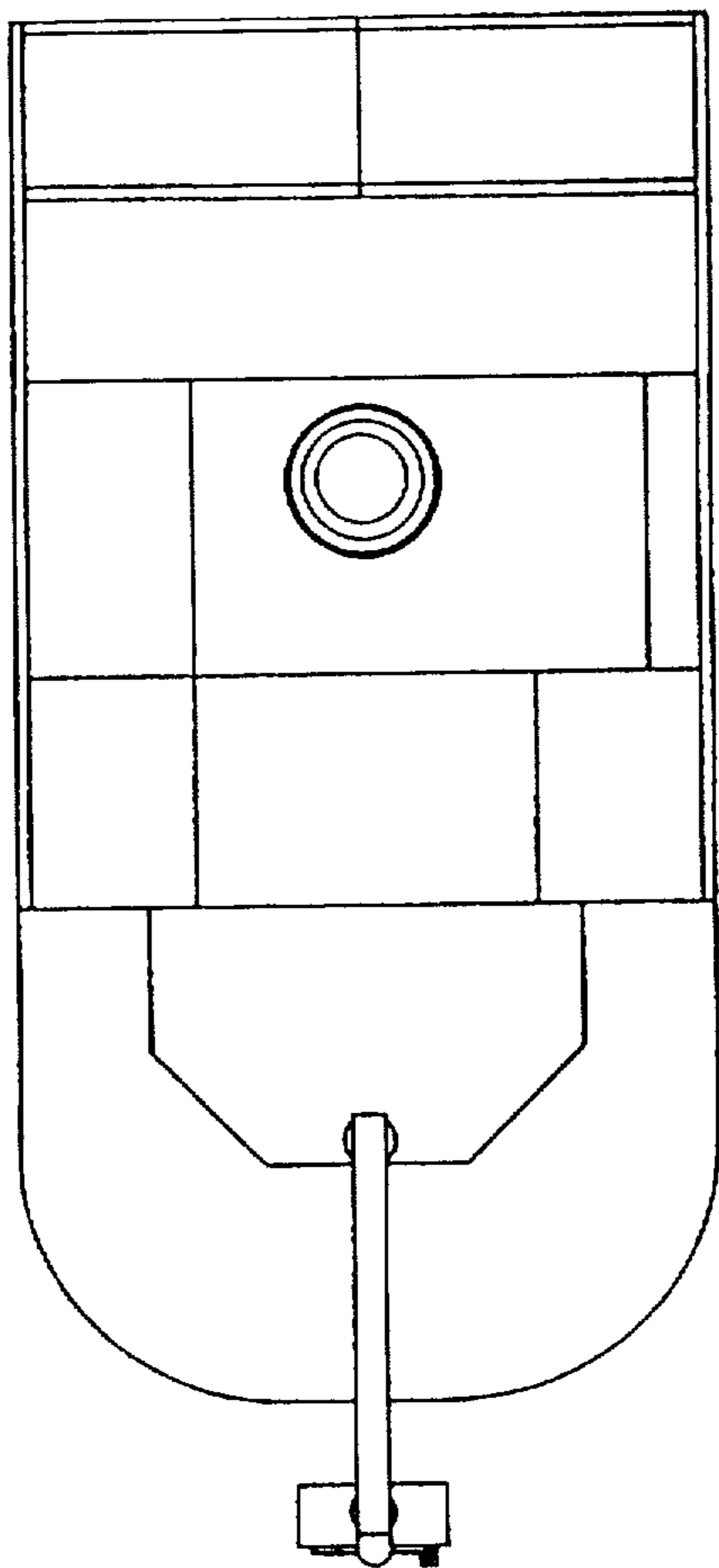


Fig. 22

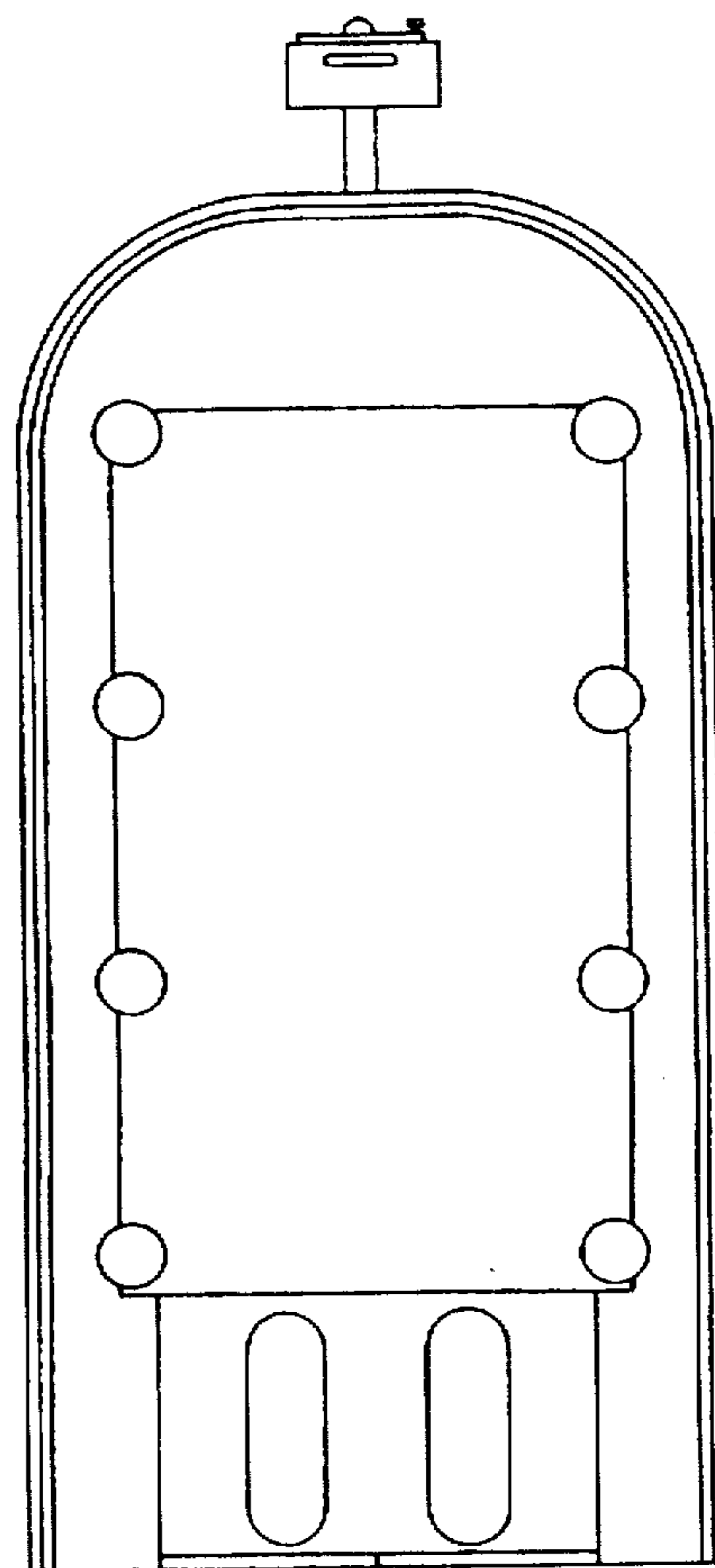


Fig. 23

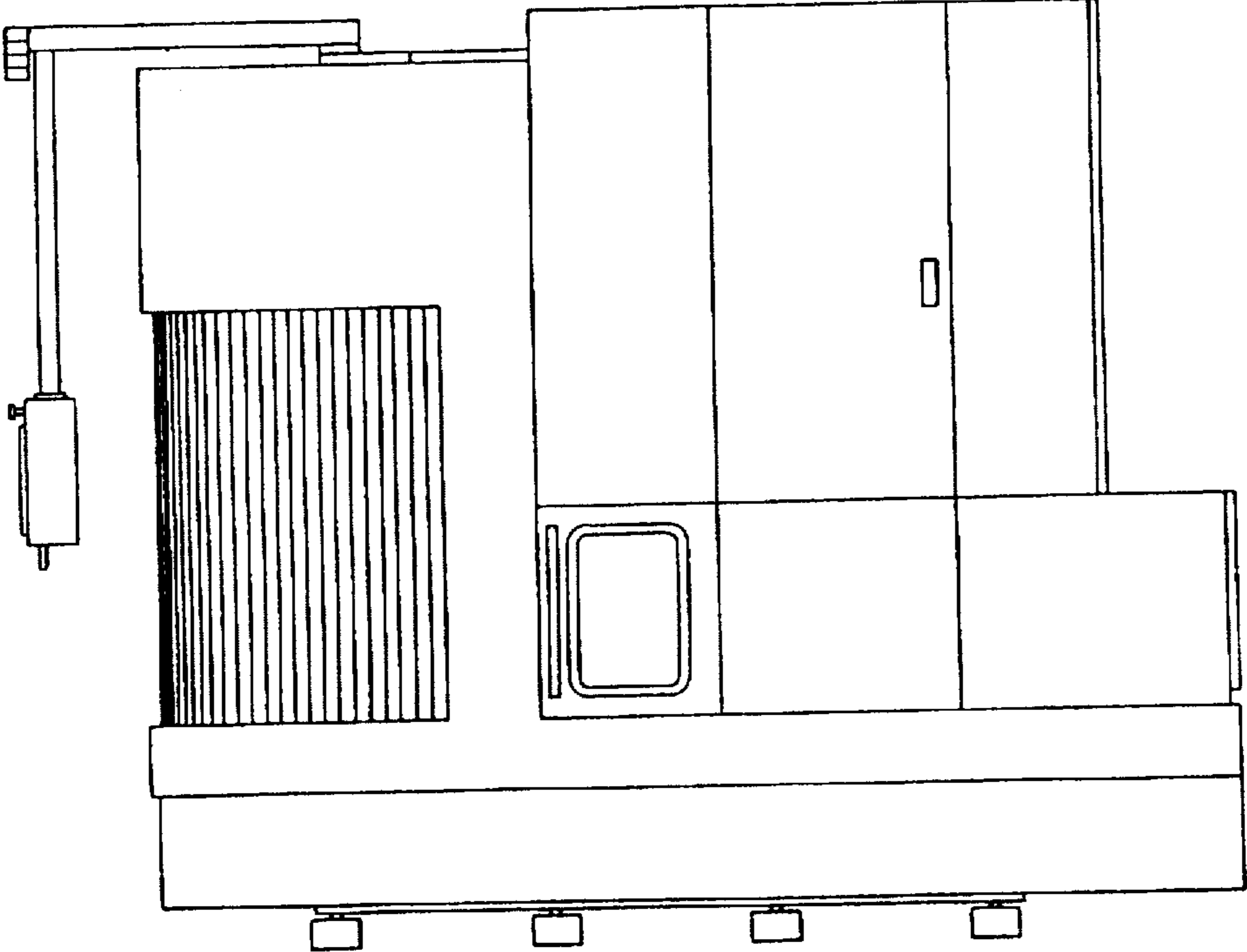


Fig. 24

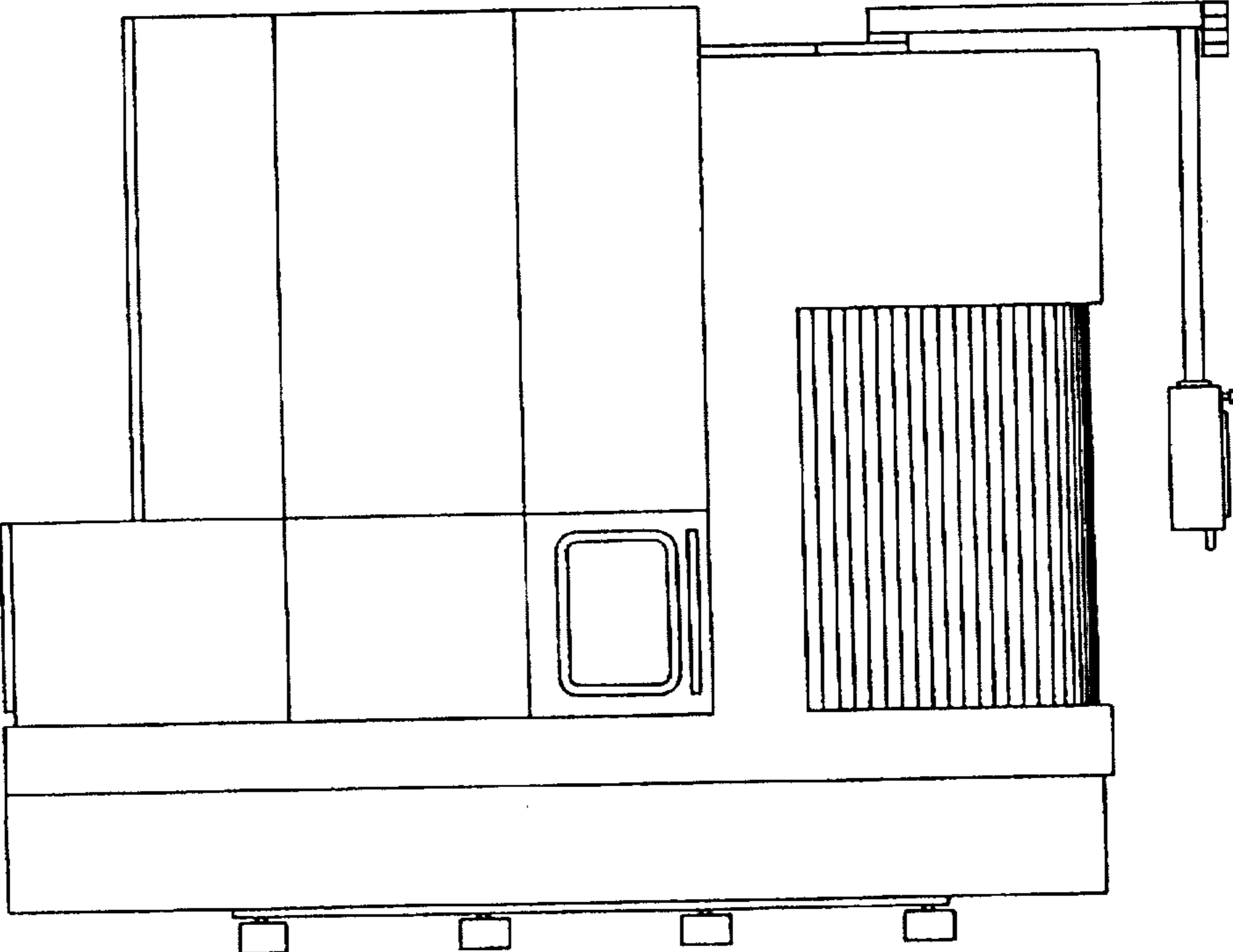


Fig. 25

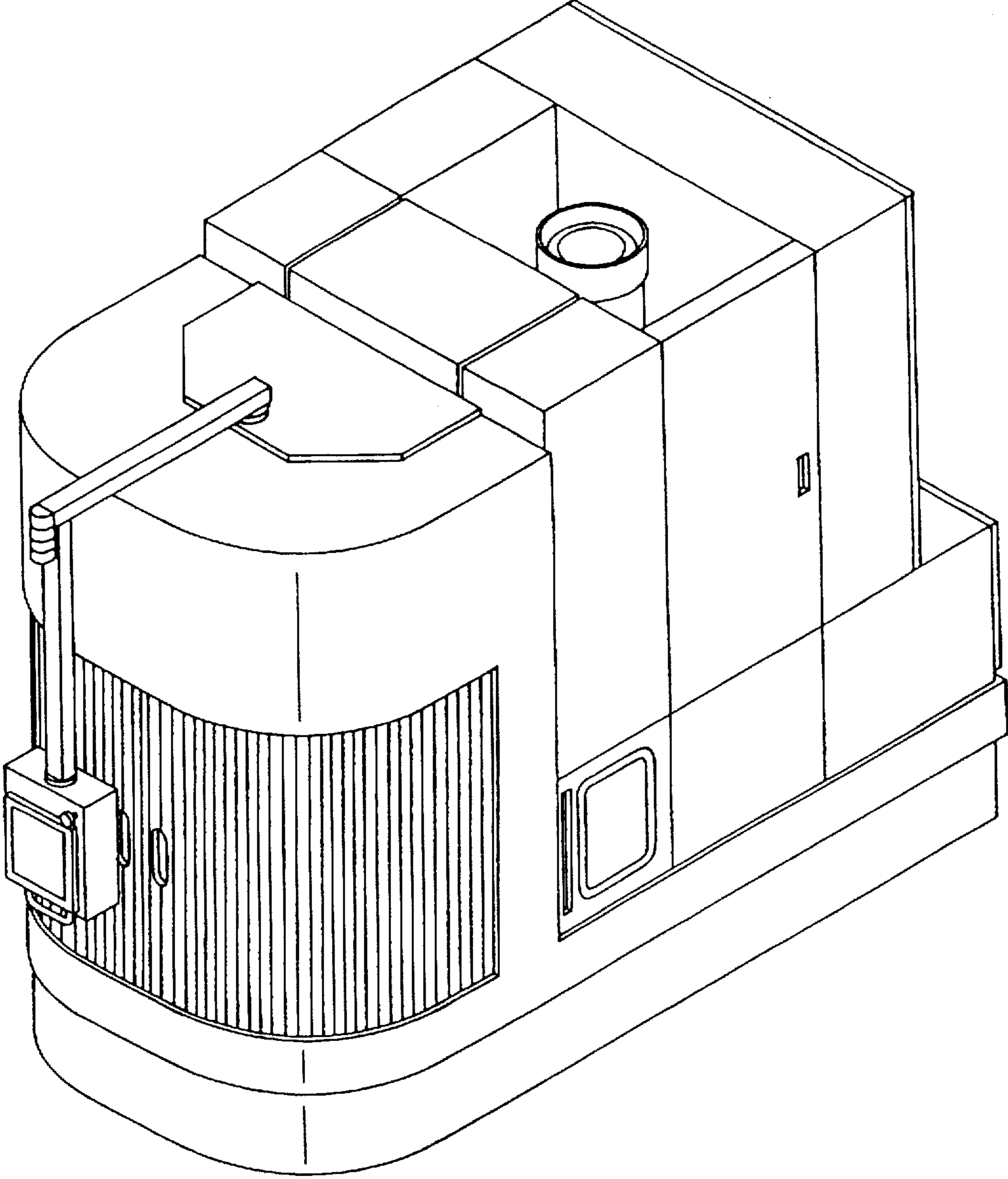


Fig. 26

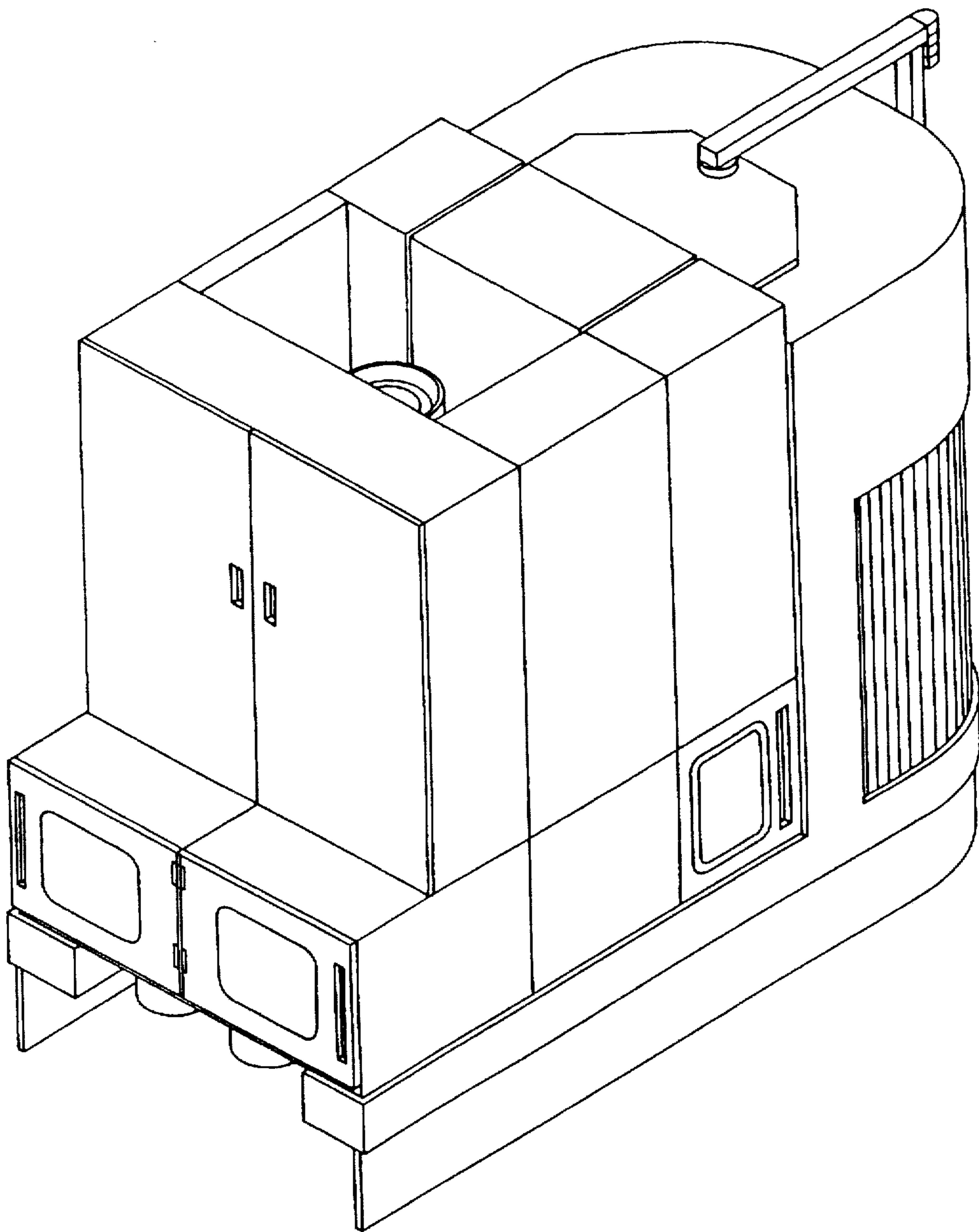


Fig. 27

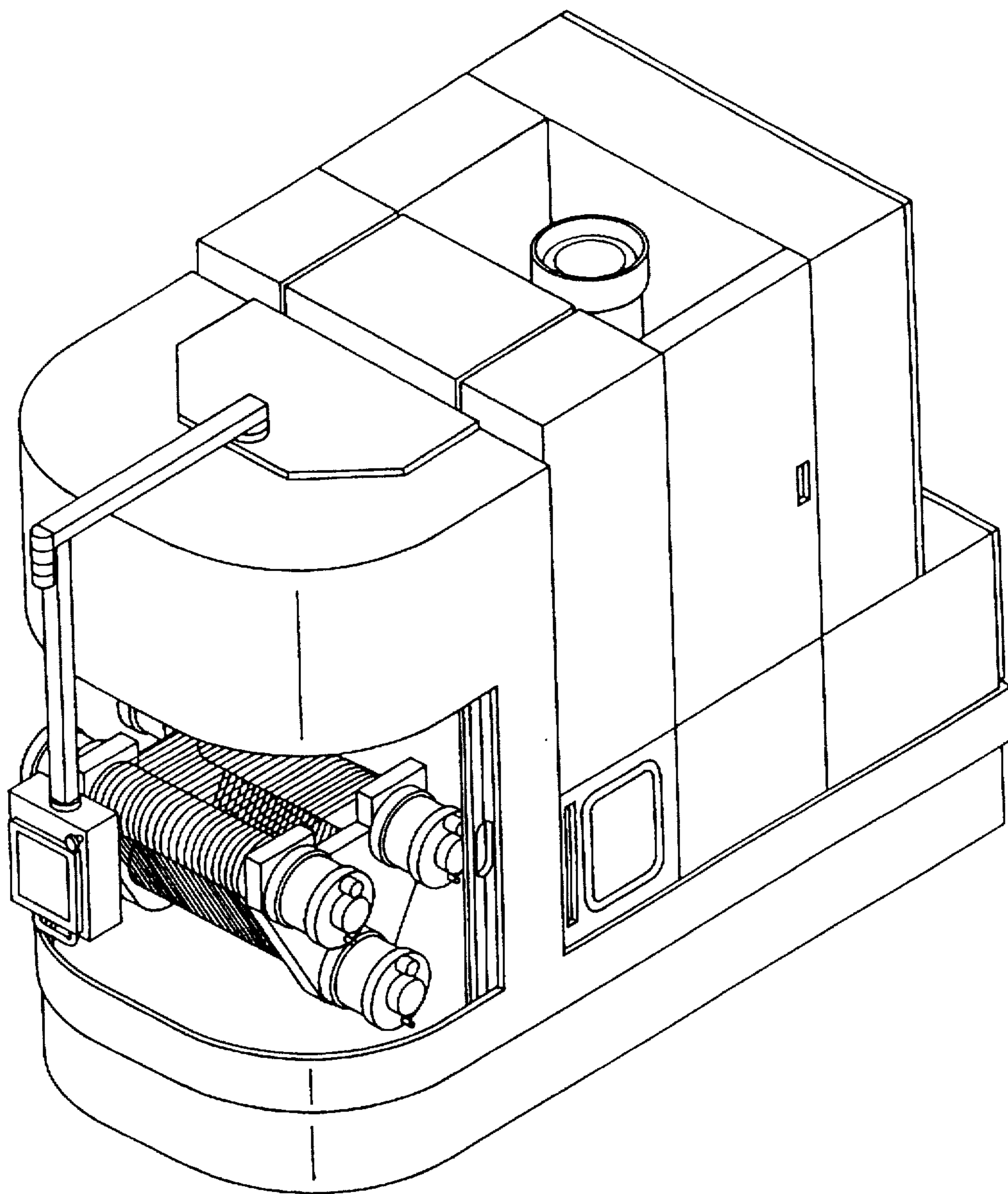


Fig. 28

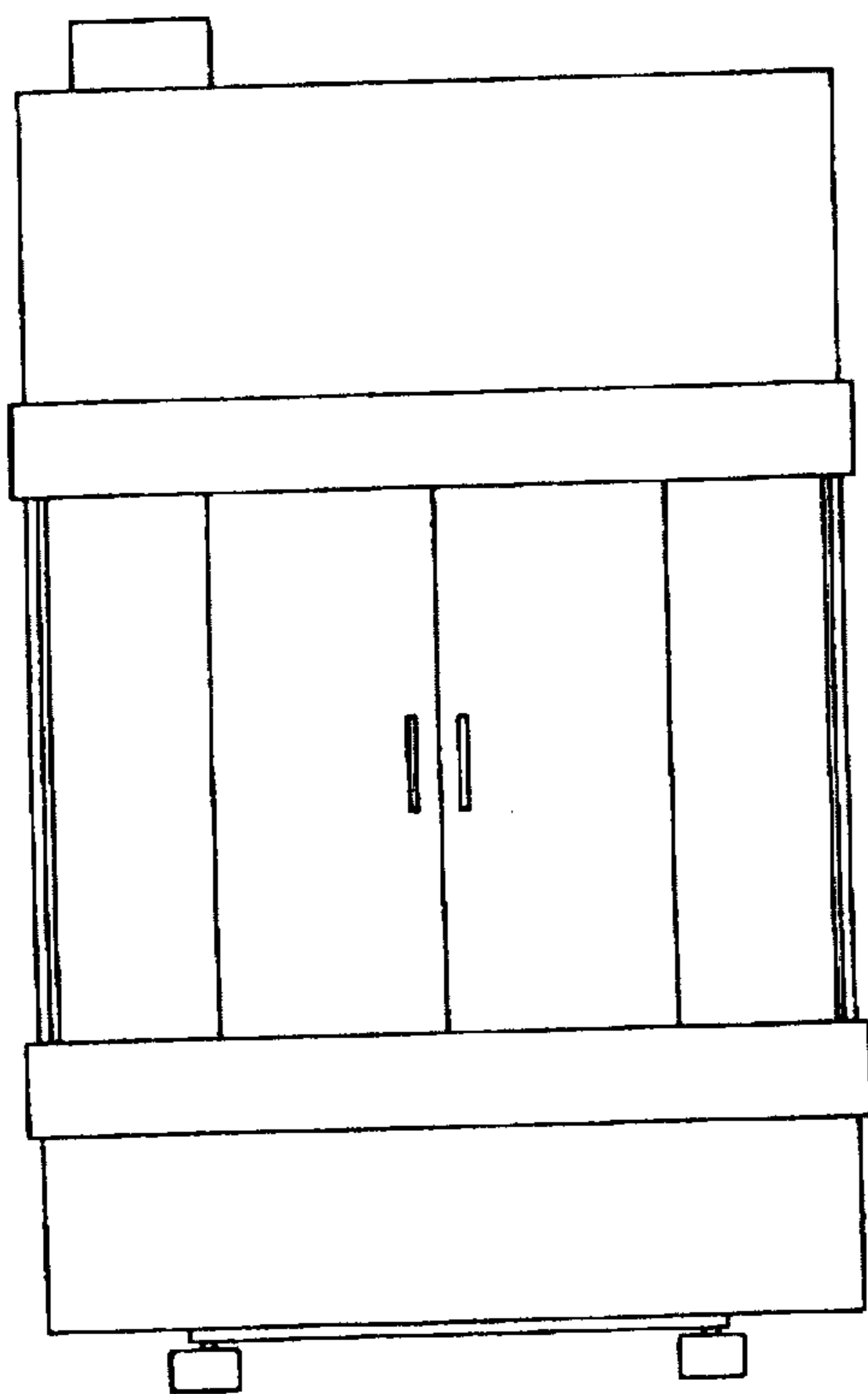


Fig. 29

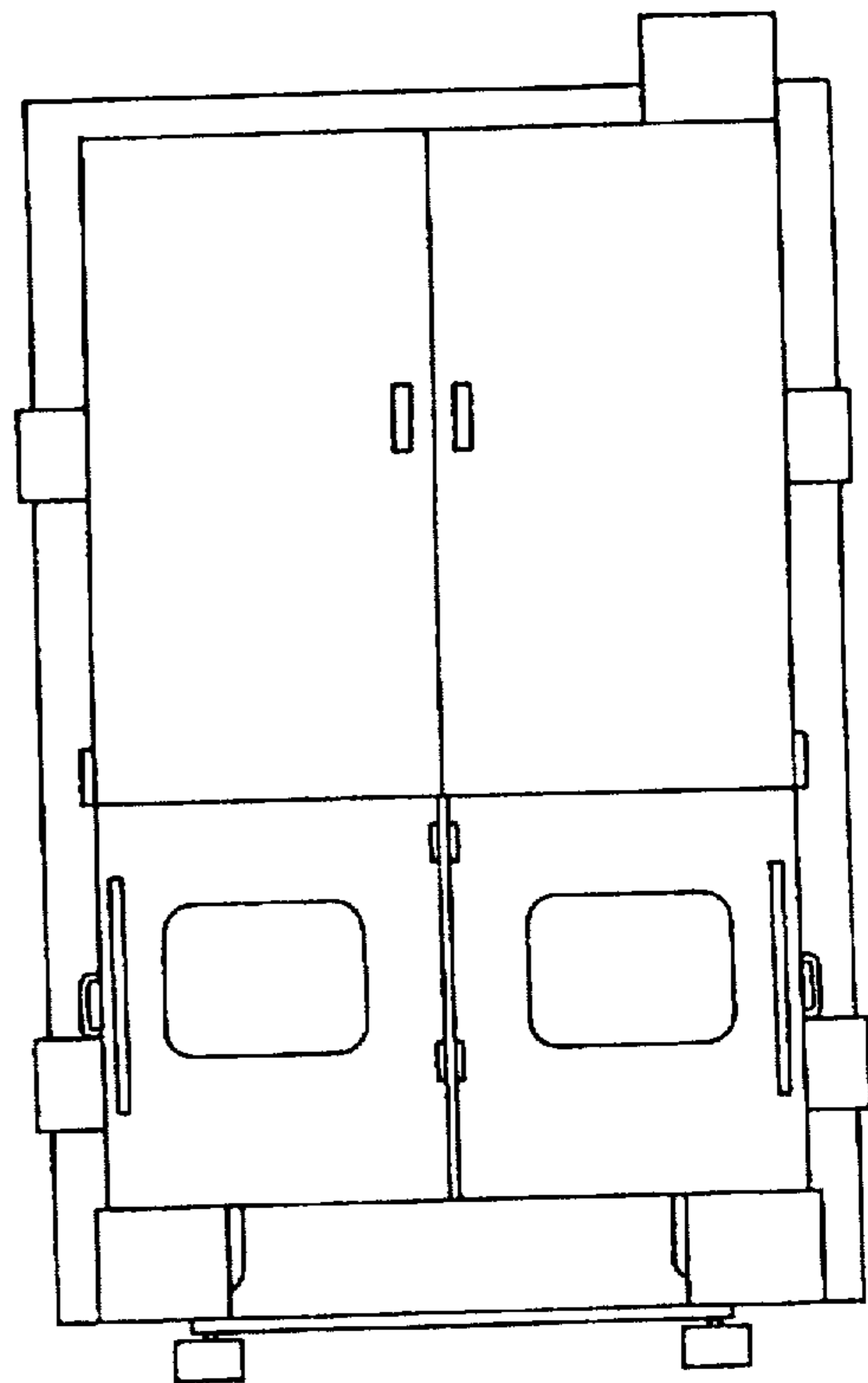


Fig. 30

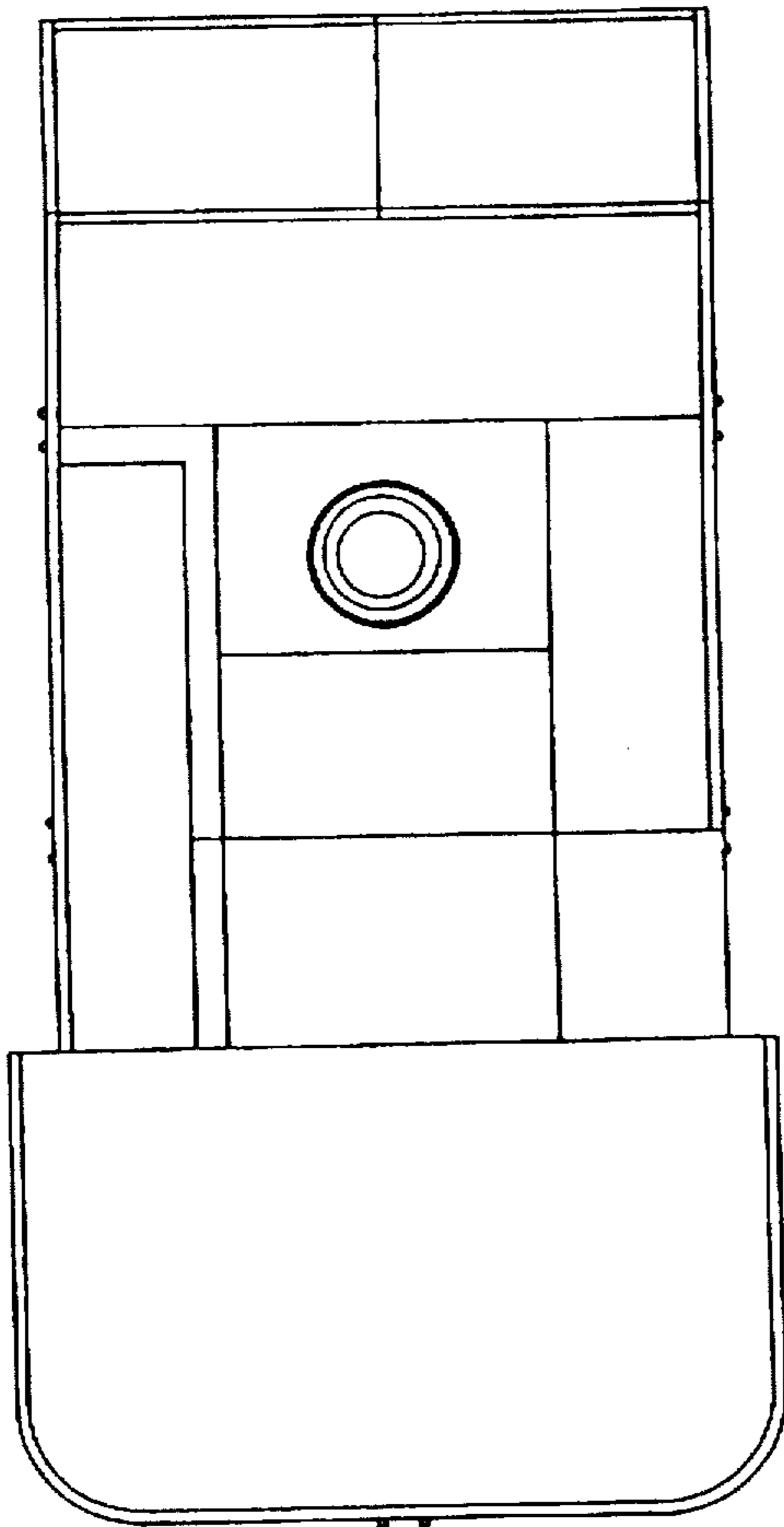


Fig. 31

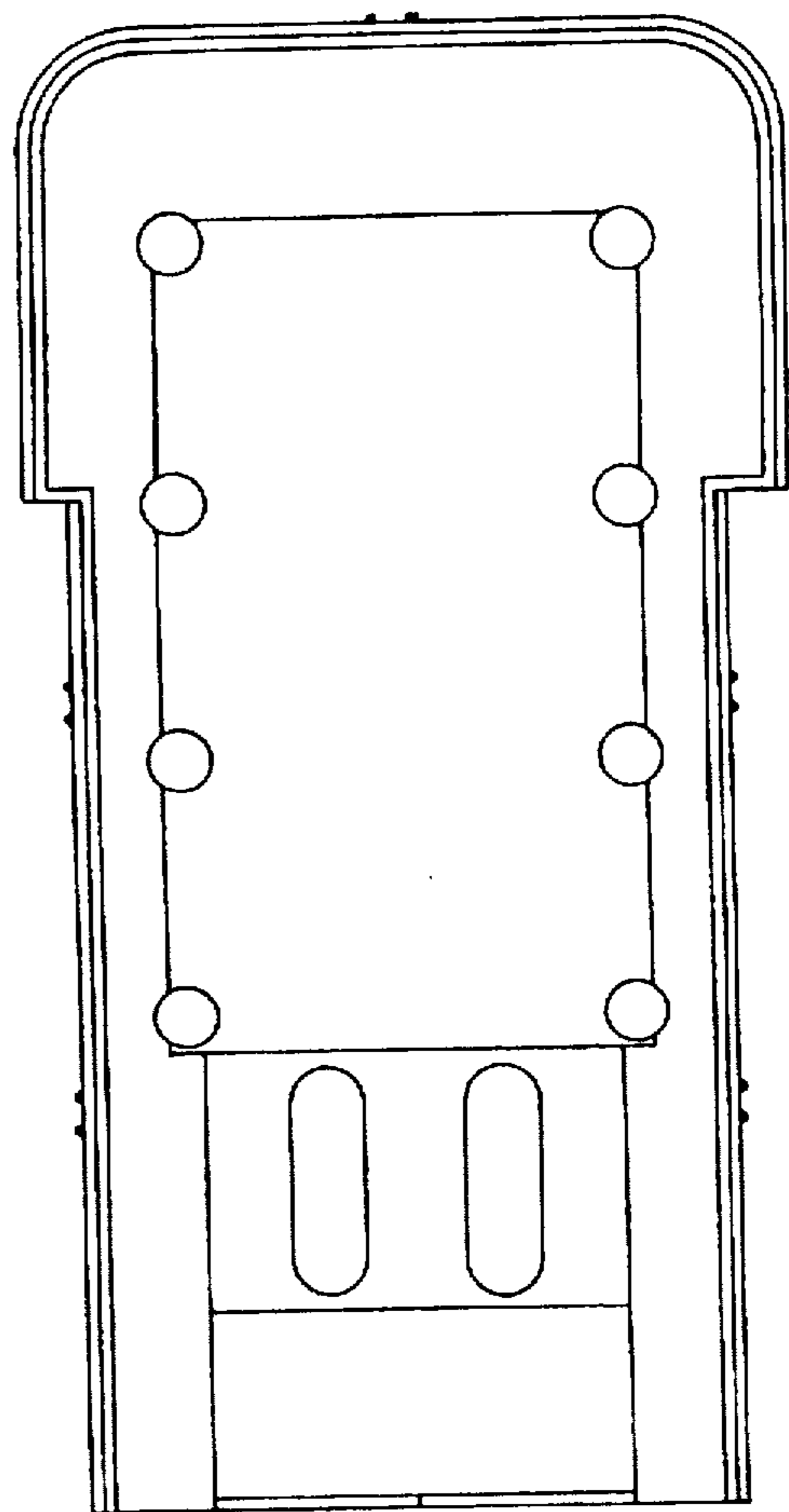


Fig. 32

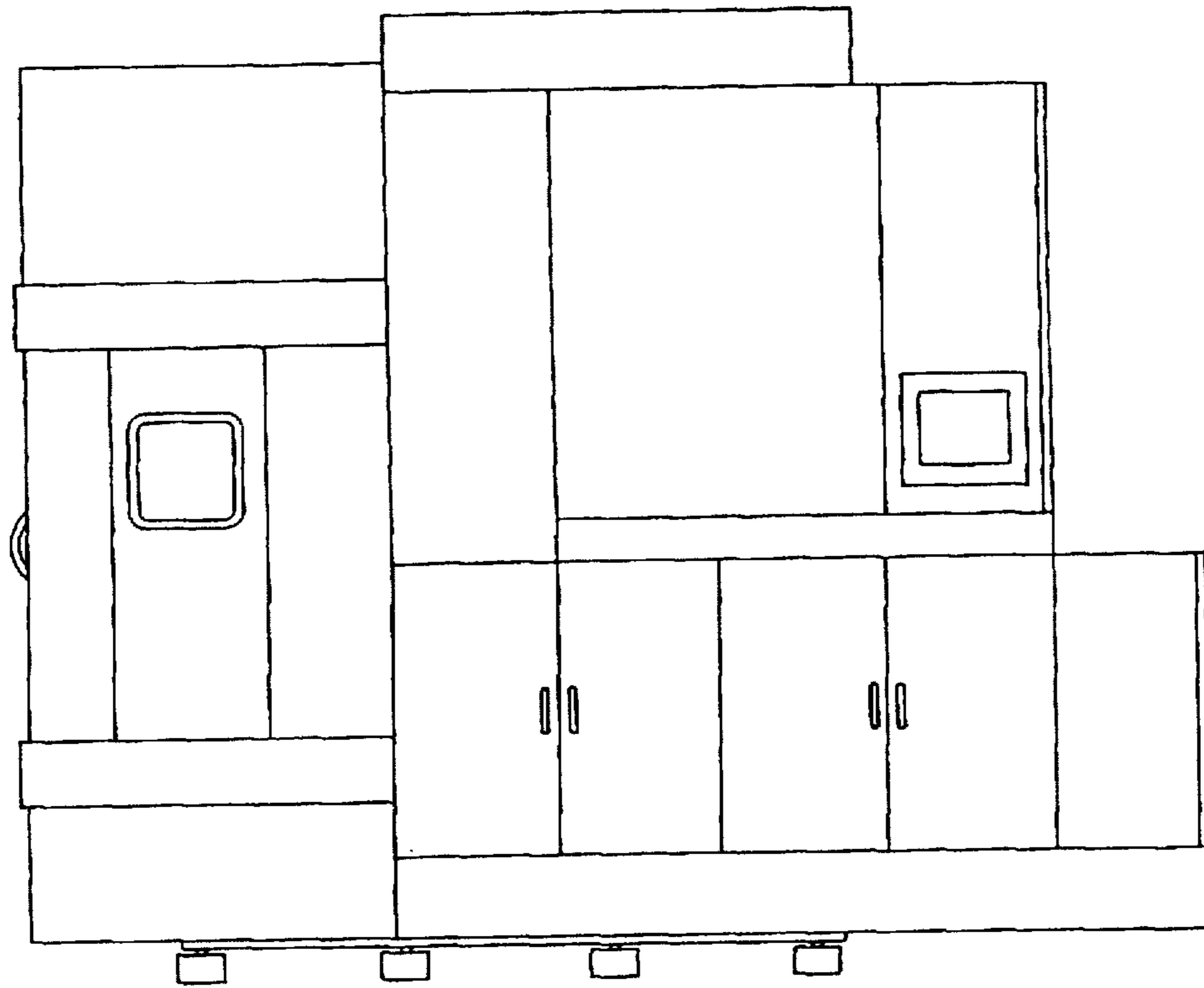


Fig. 33

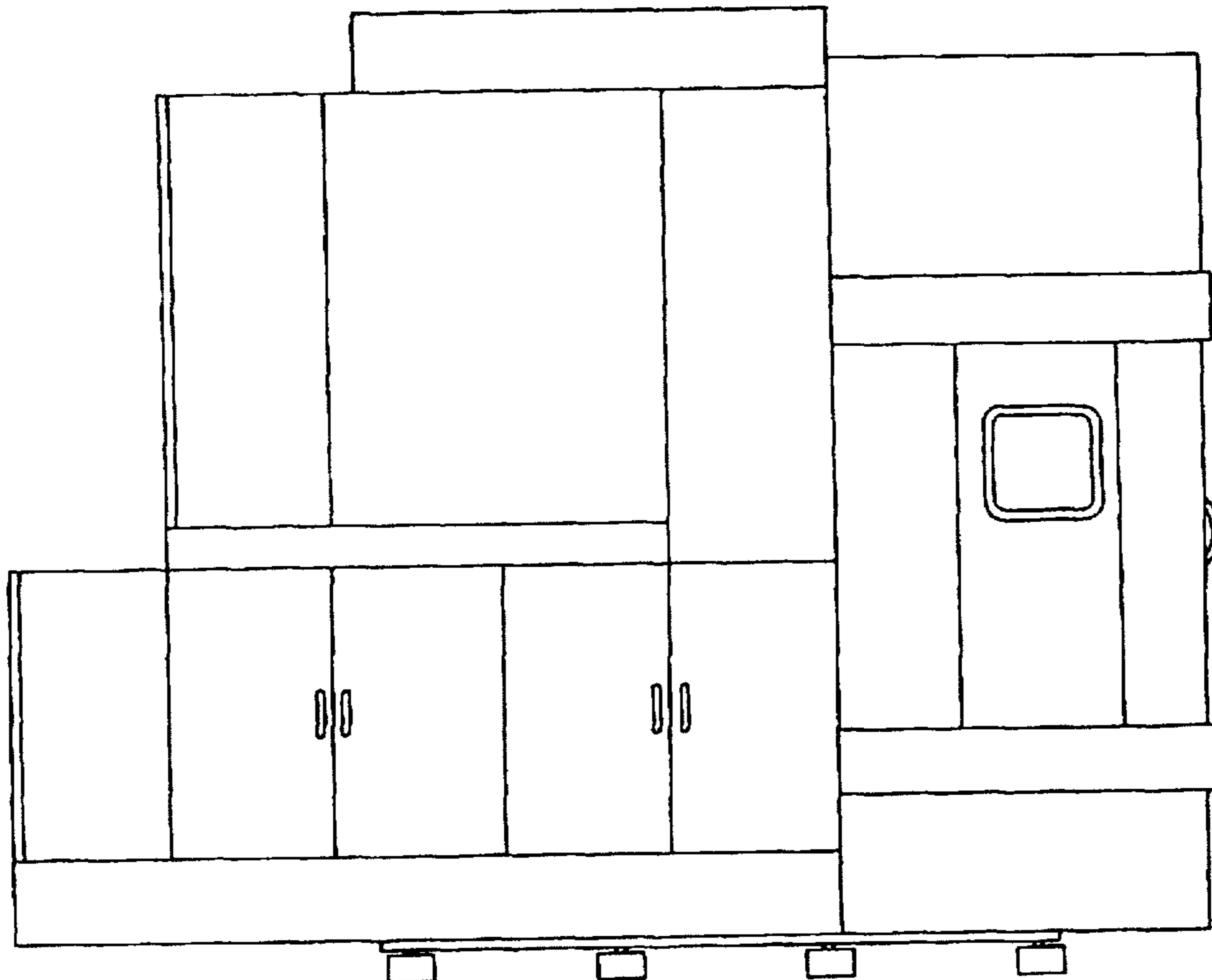


Fig. 34

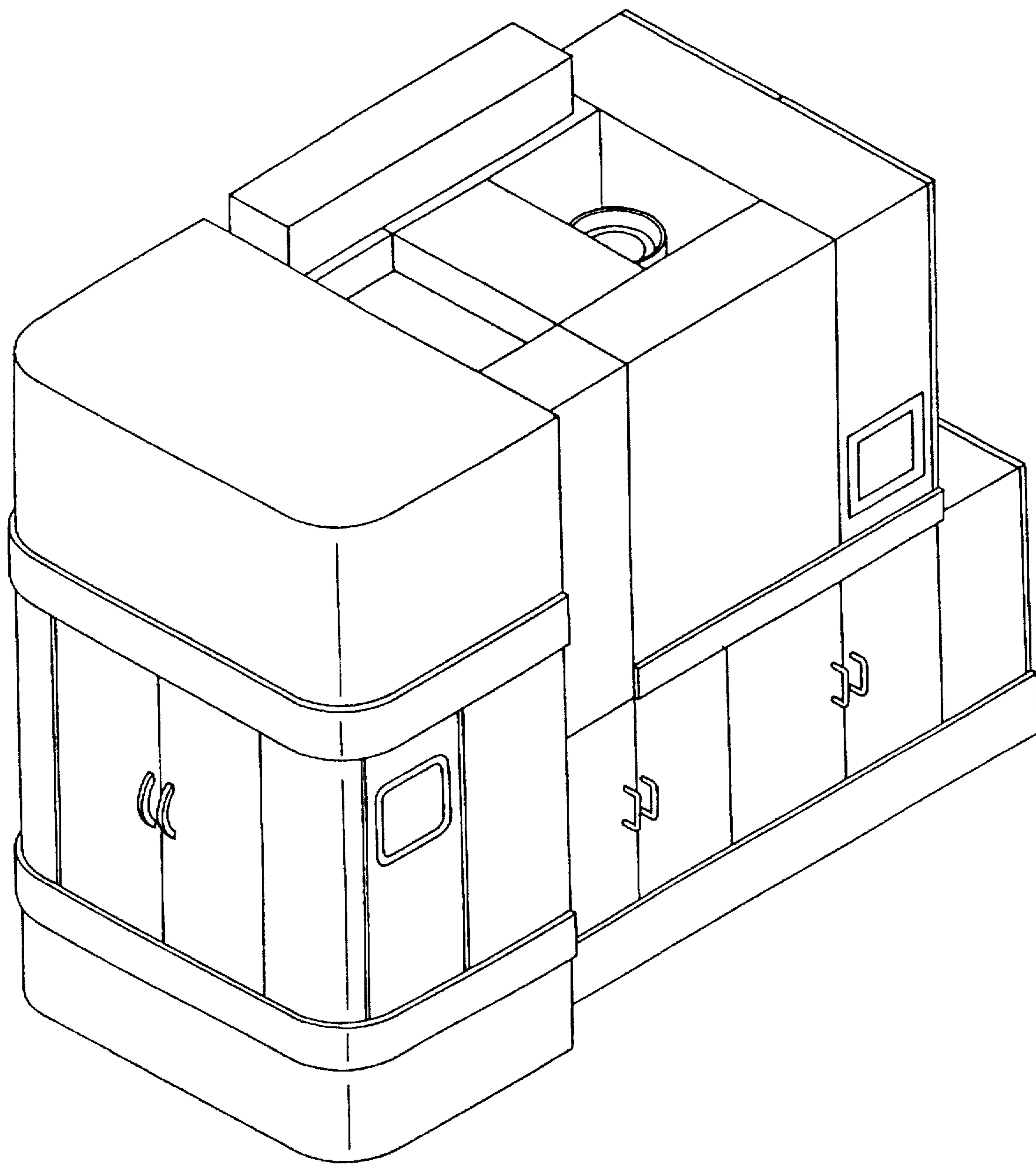


Fig. 35

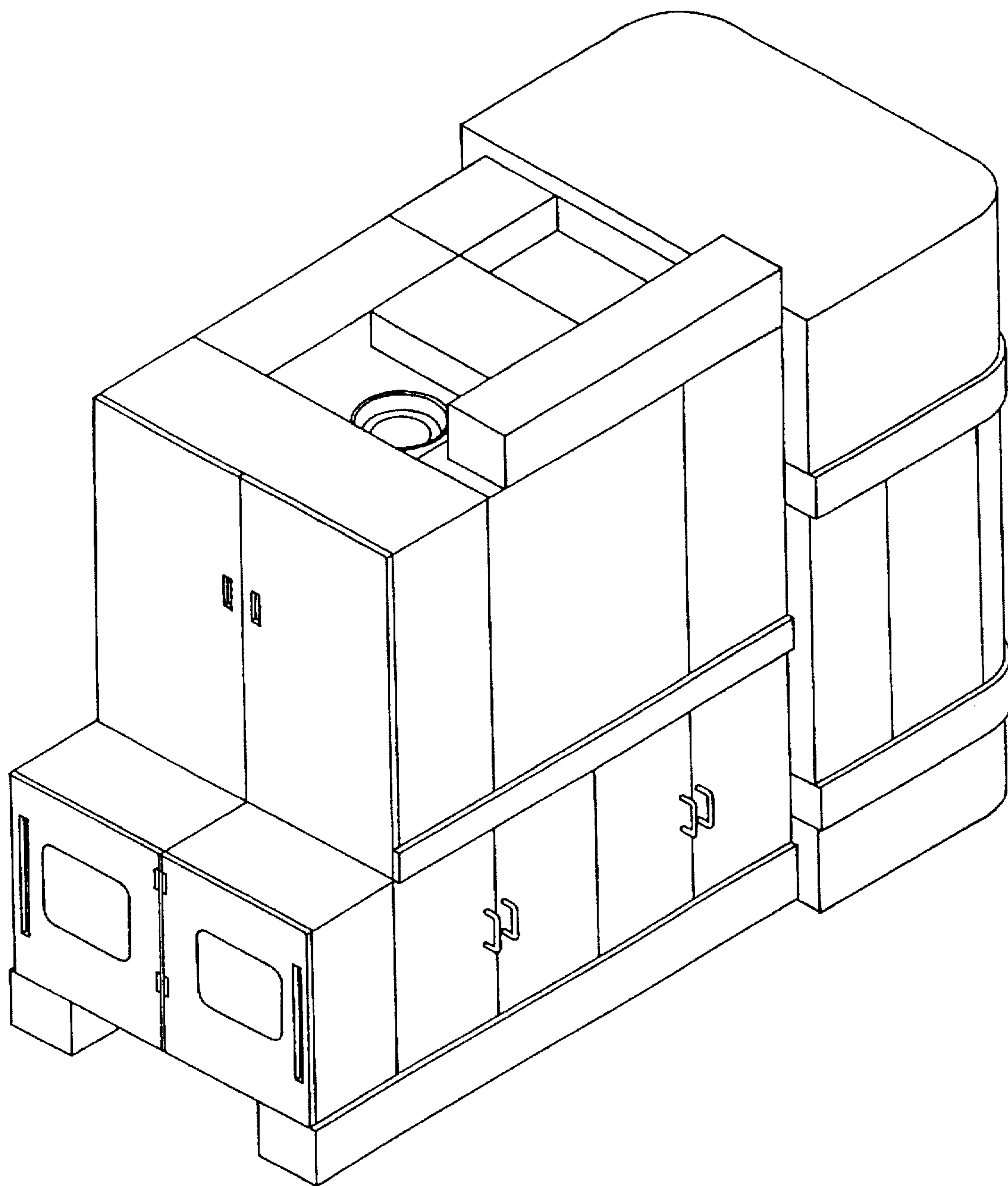


Fig. 36

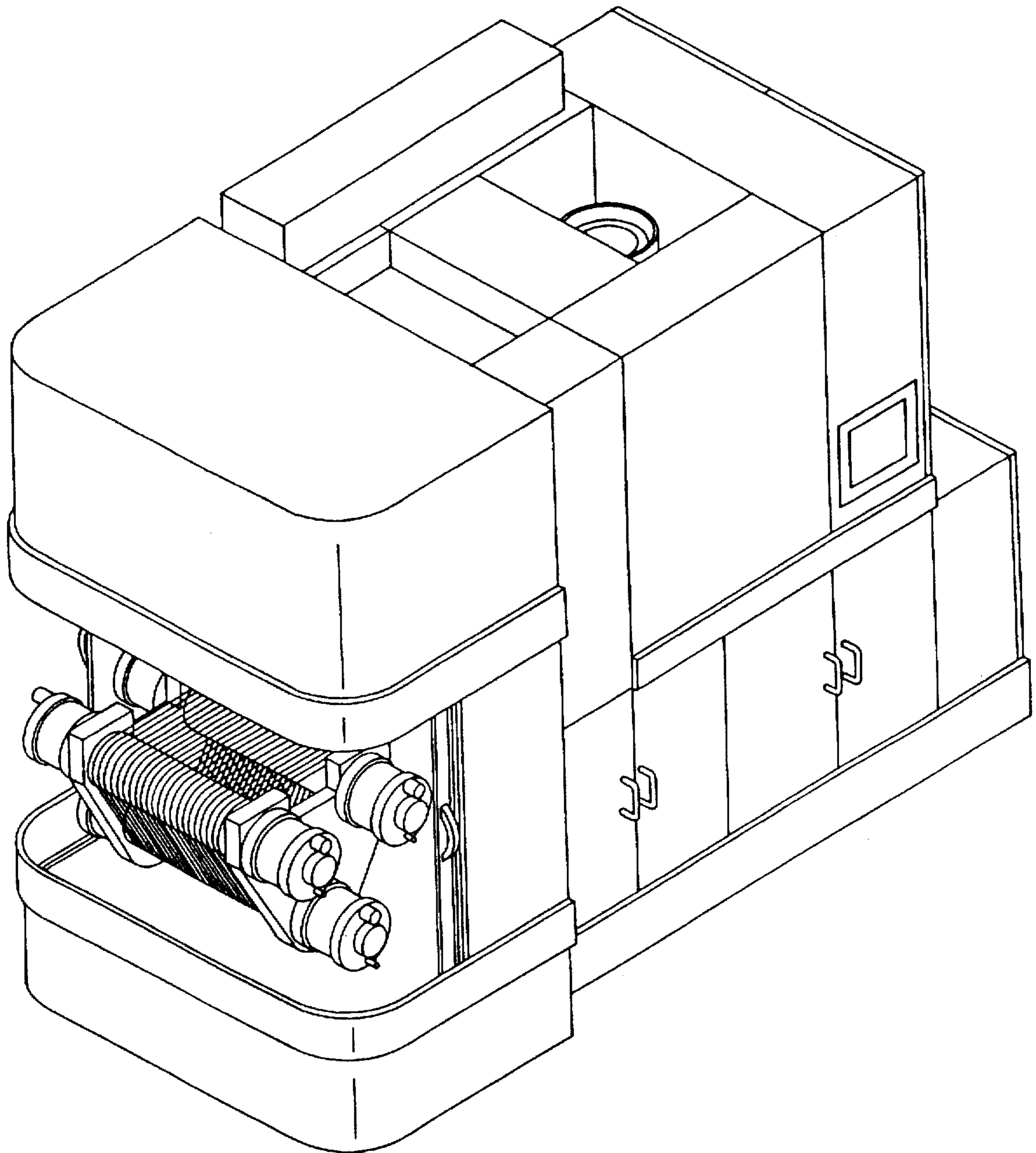


Fig. 37

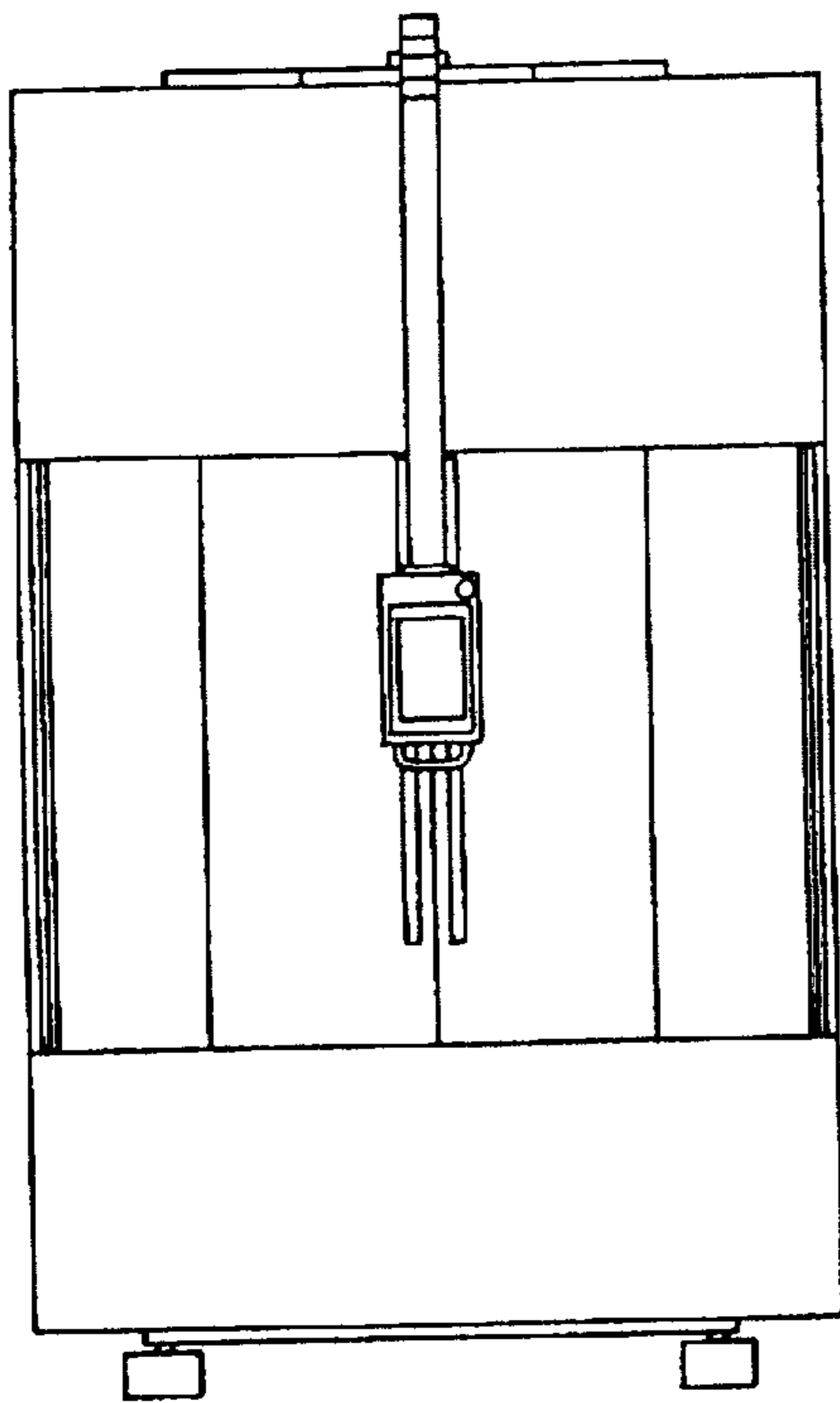


Fig. 38

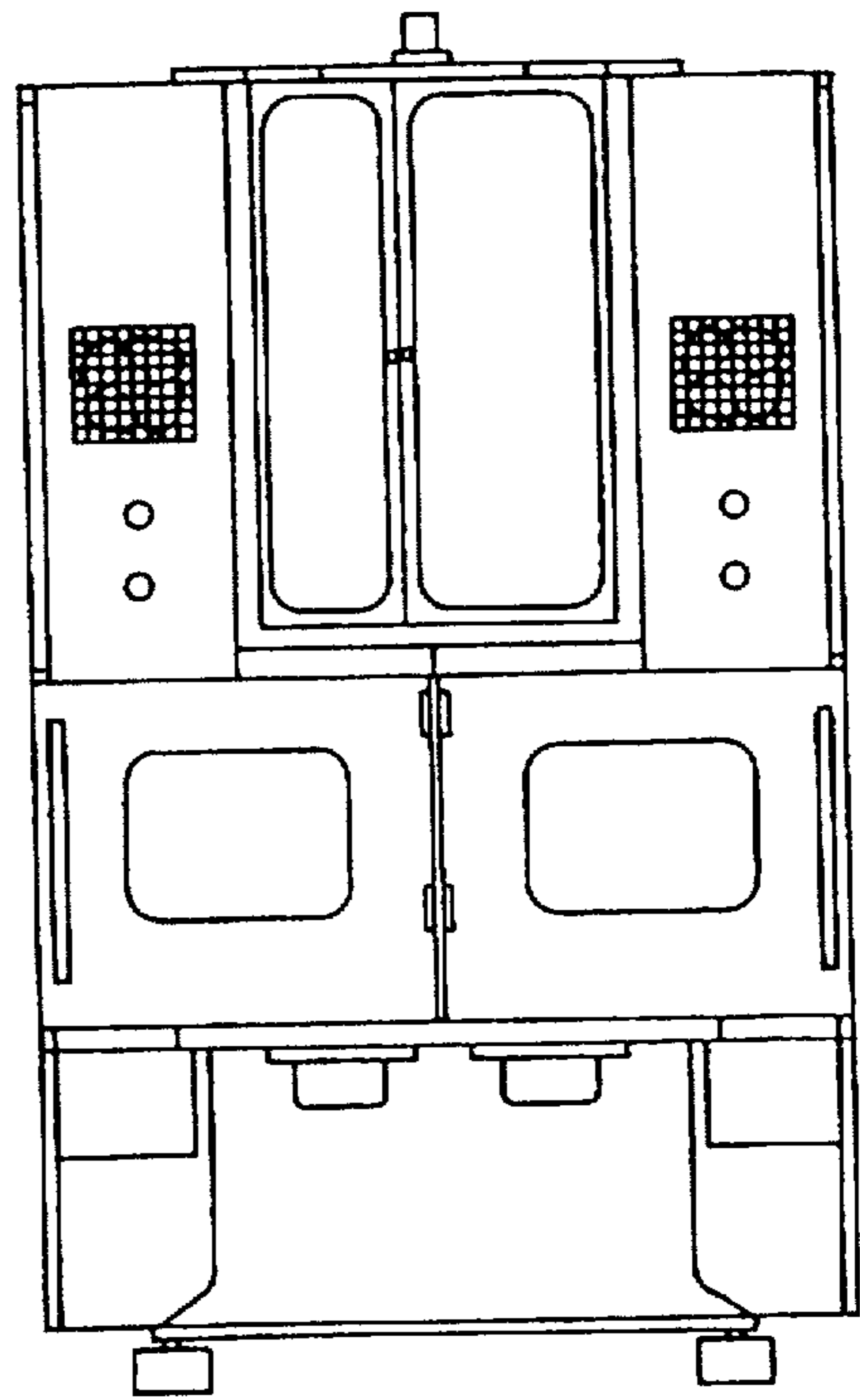


Fig. 39

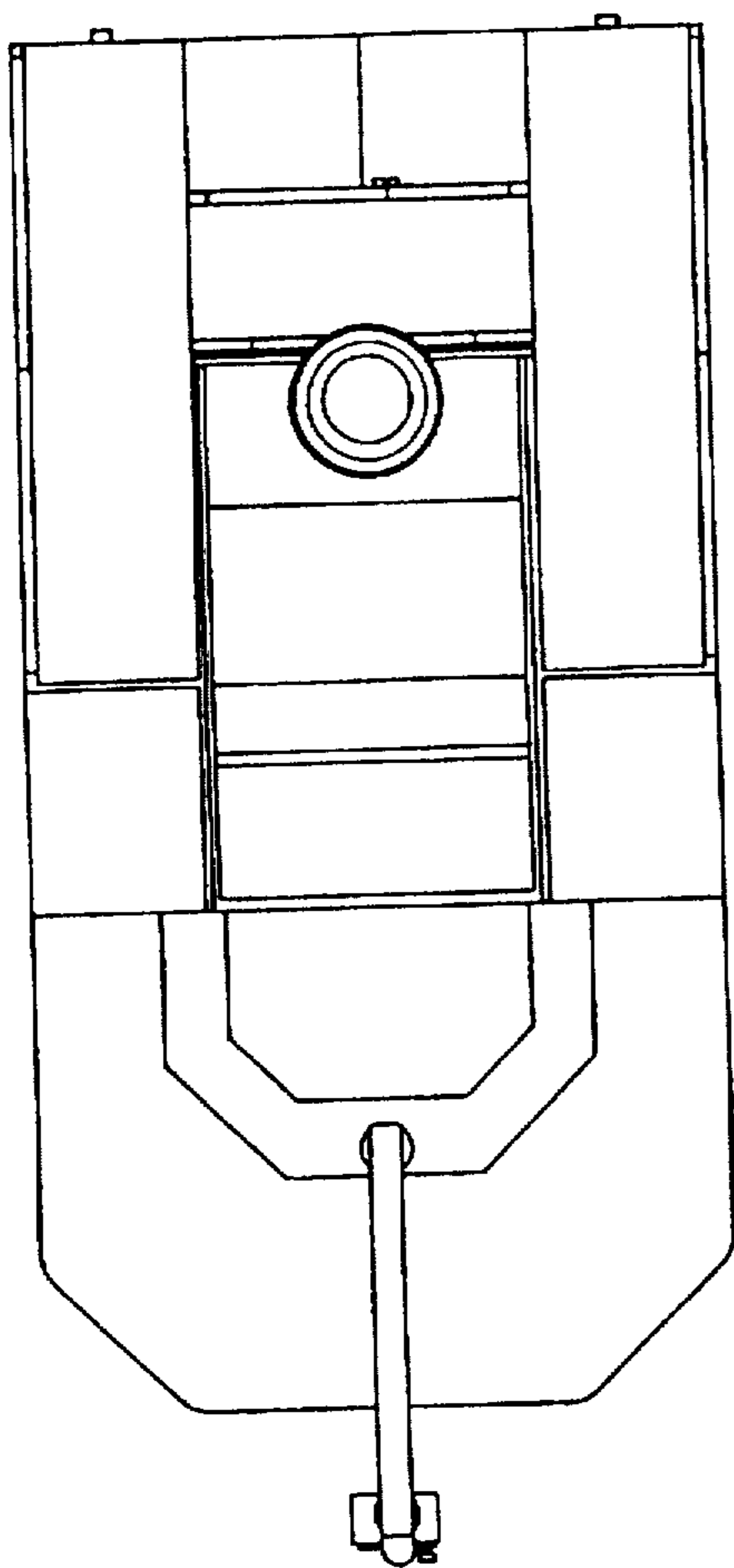


Fig. 40

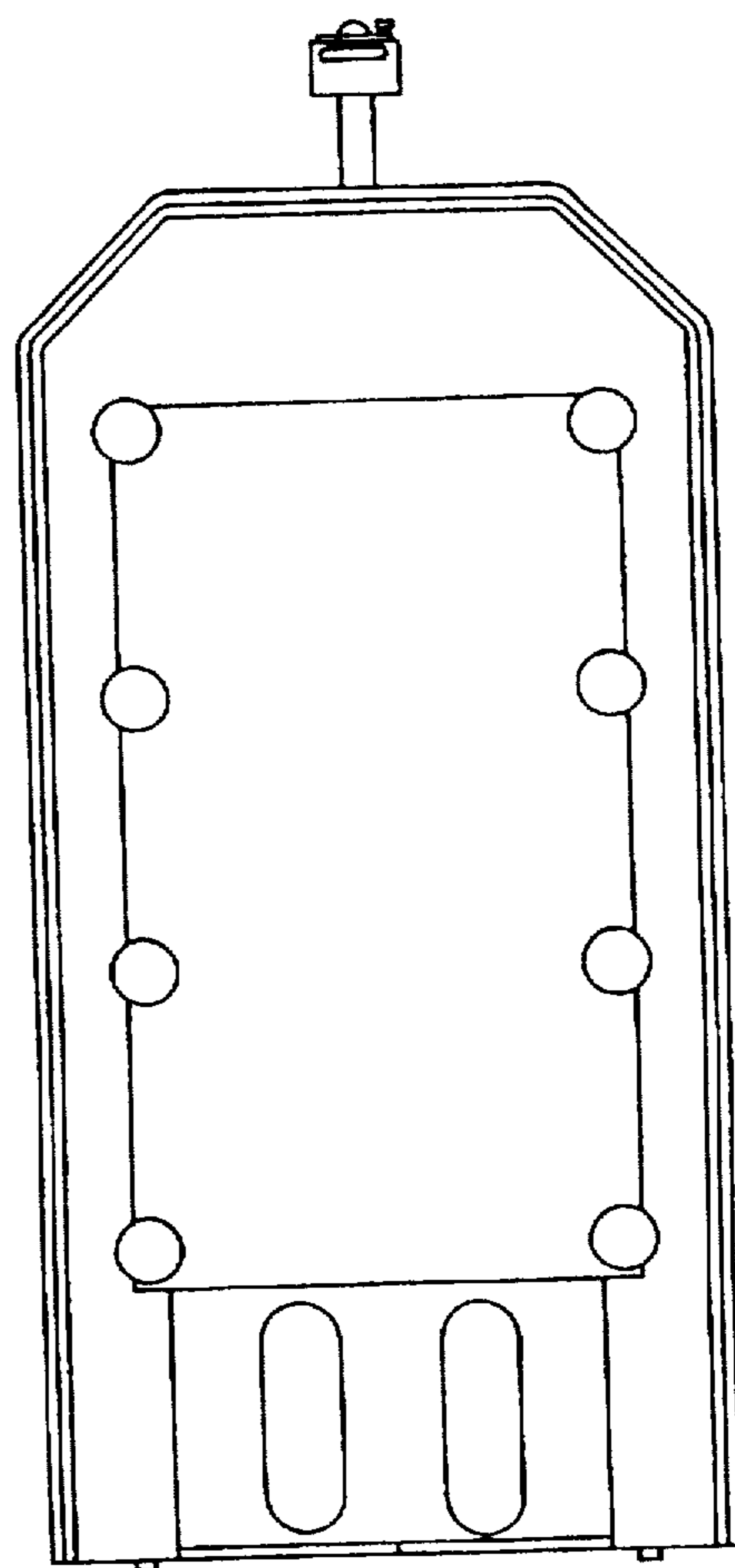


Fig. 41

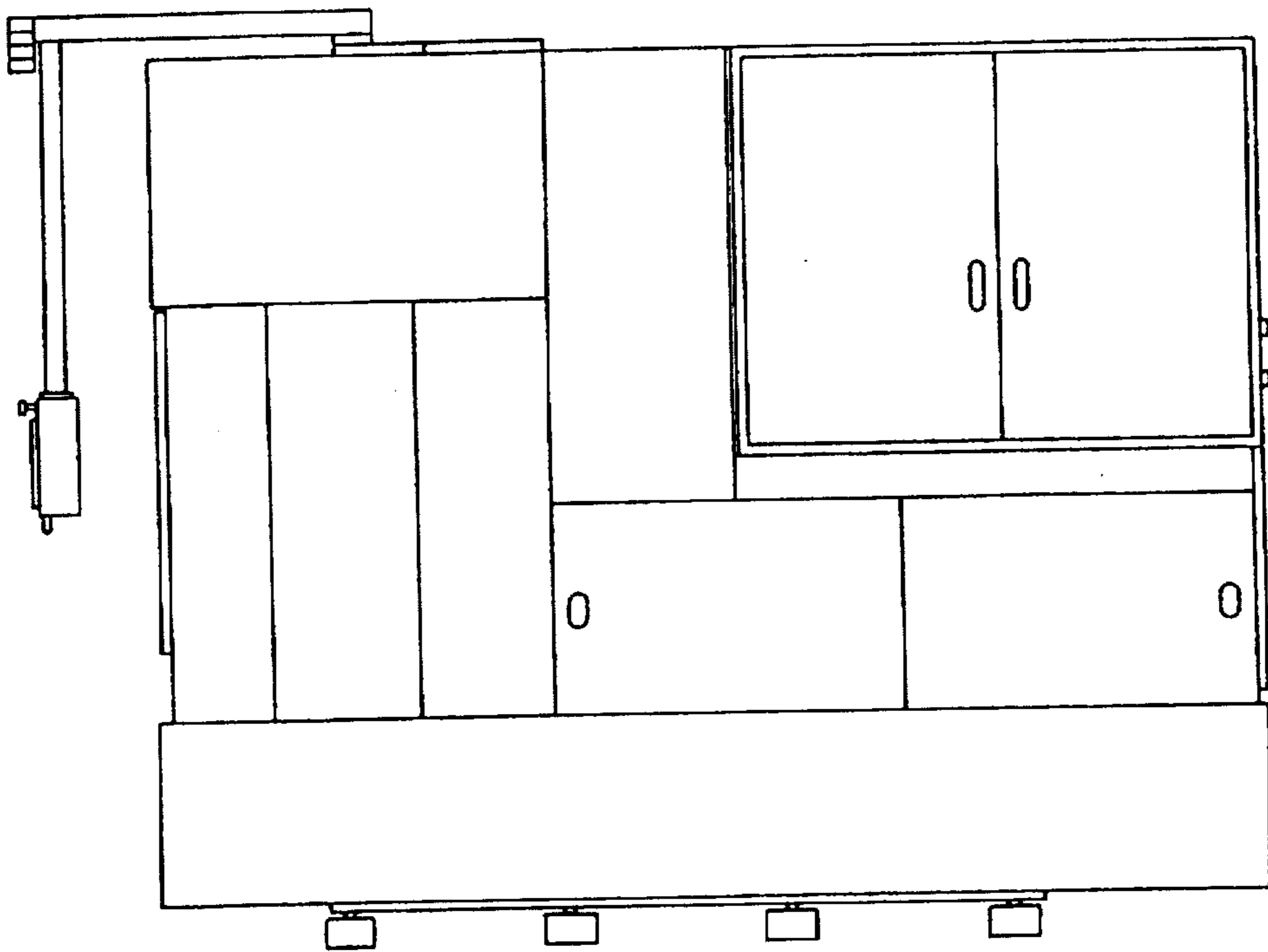


Fig. 42

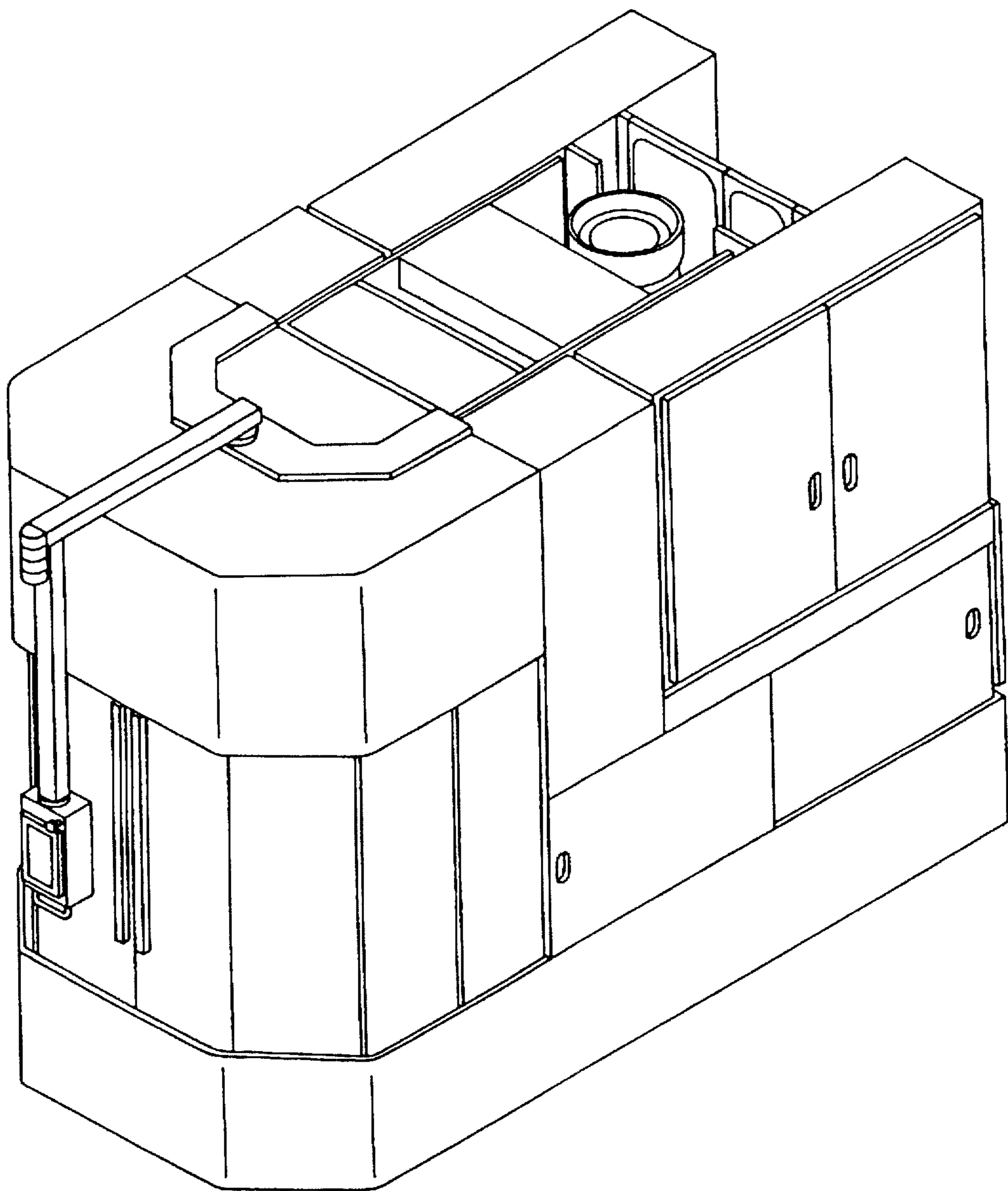


Fig. 43

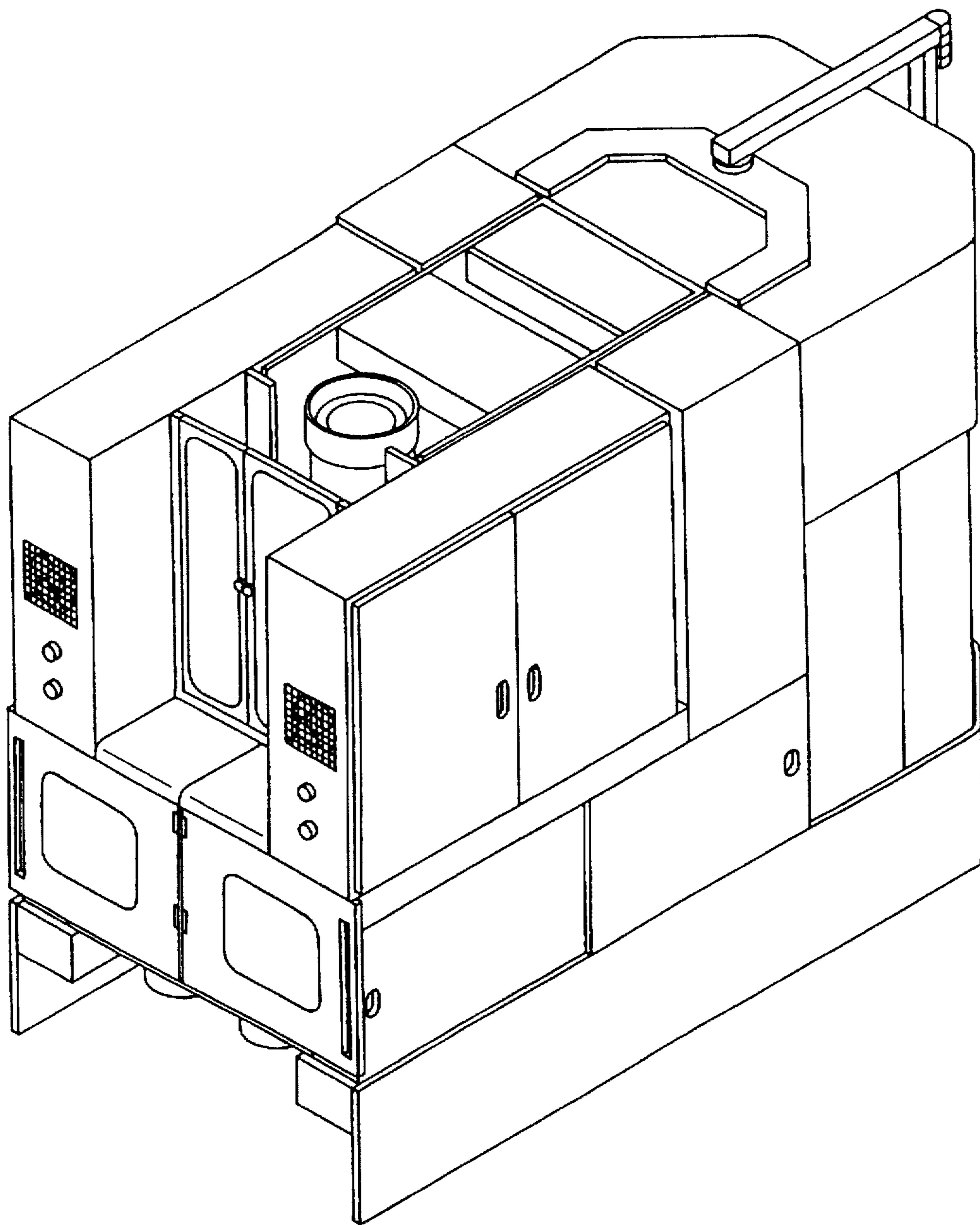


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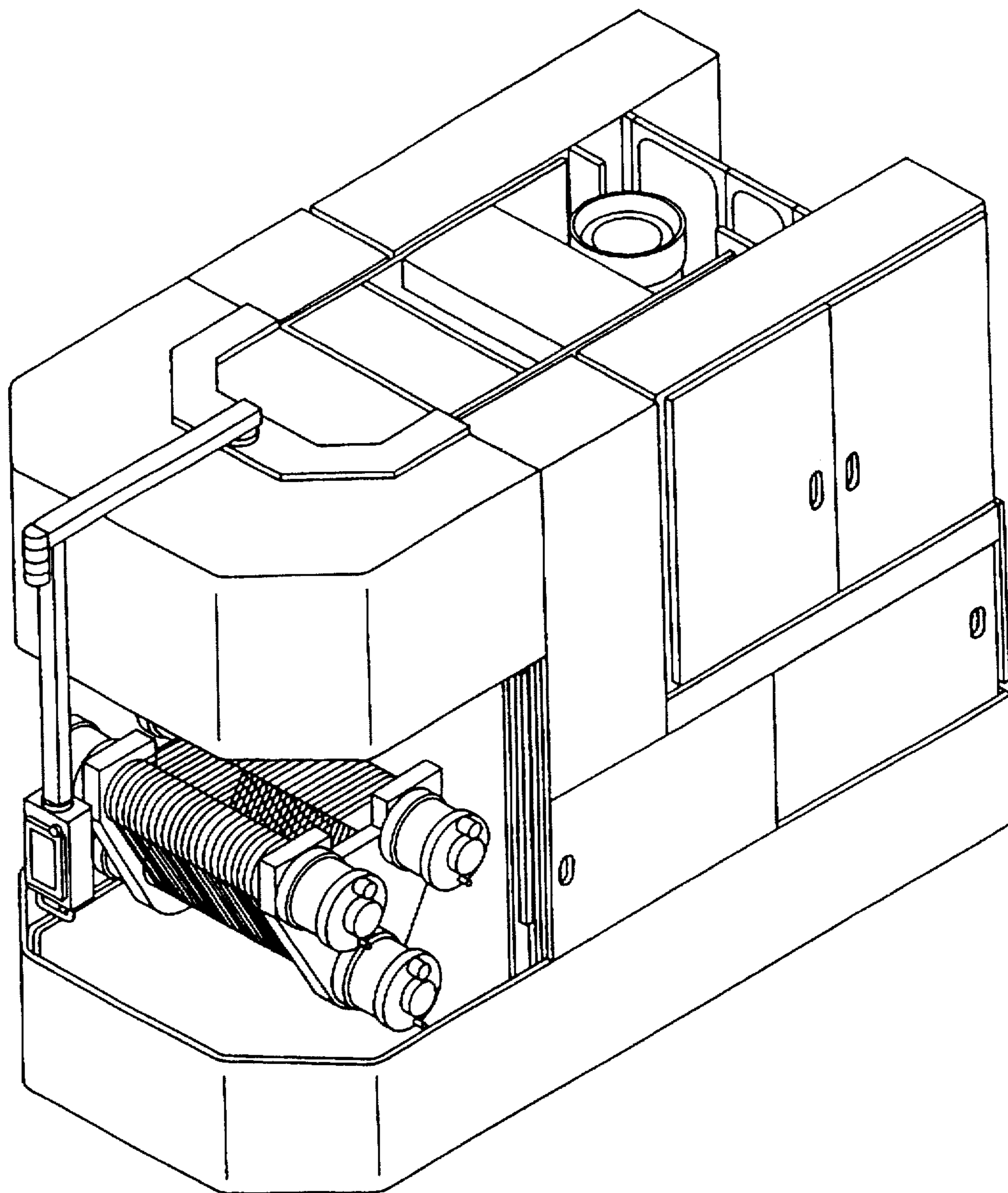


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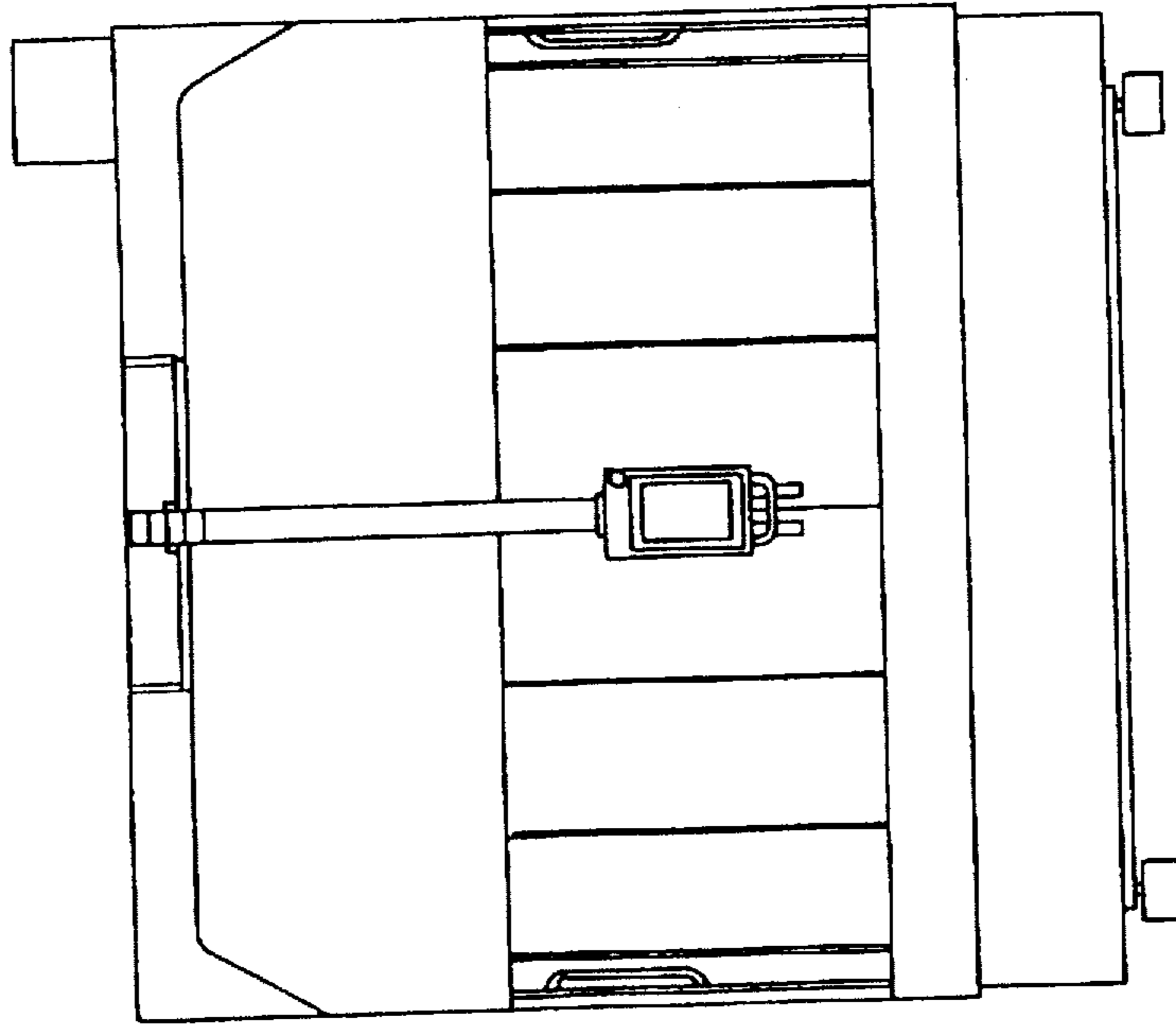


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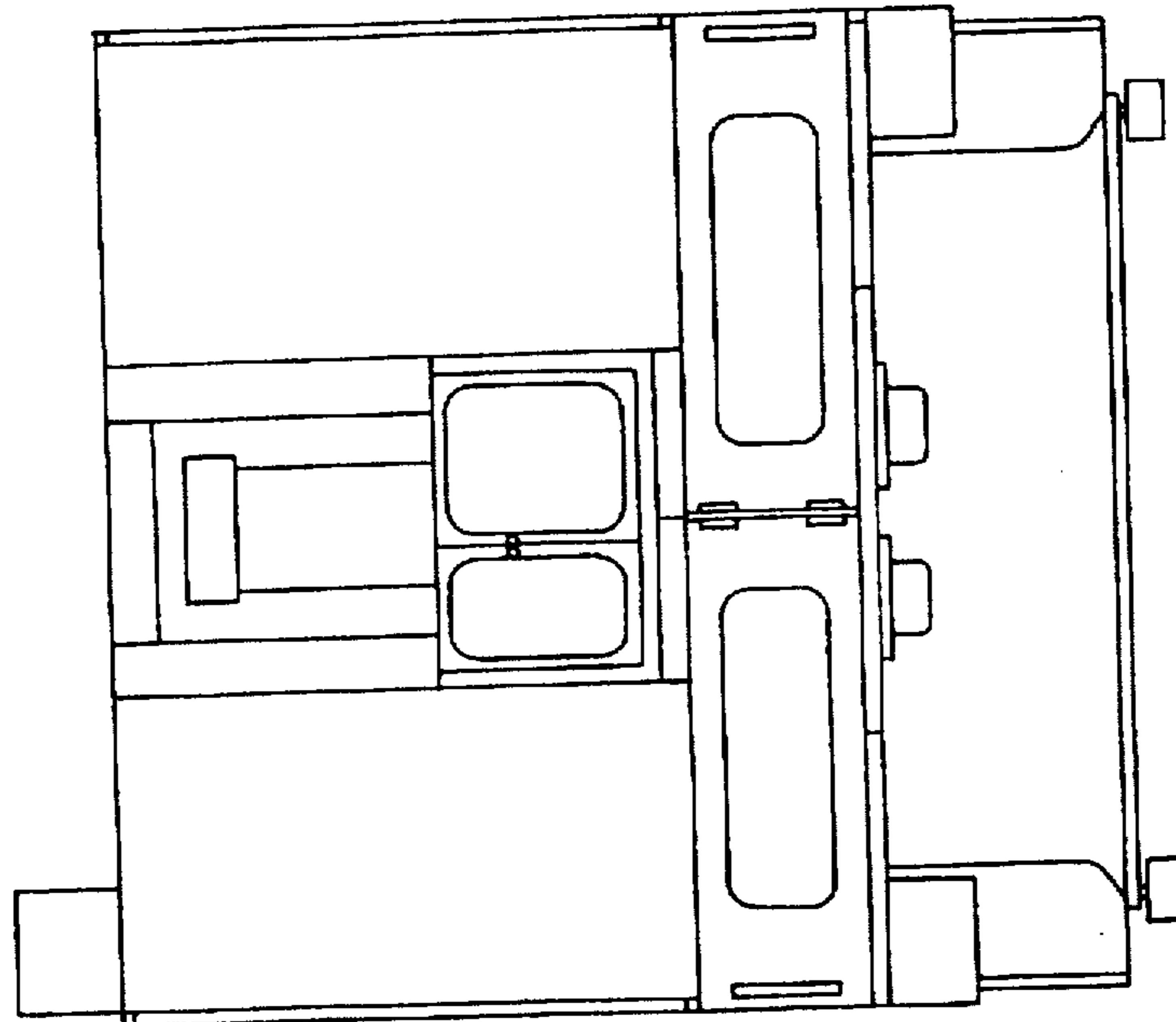


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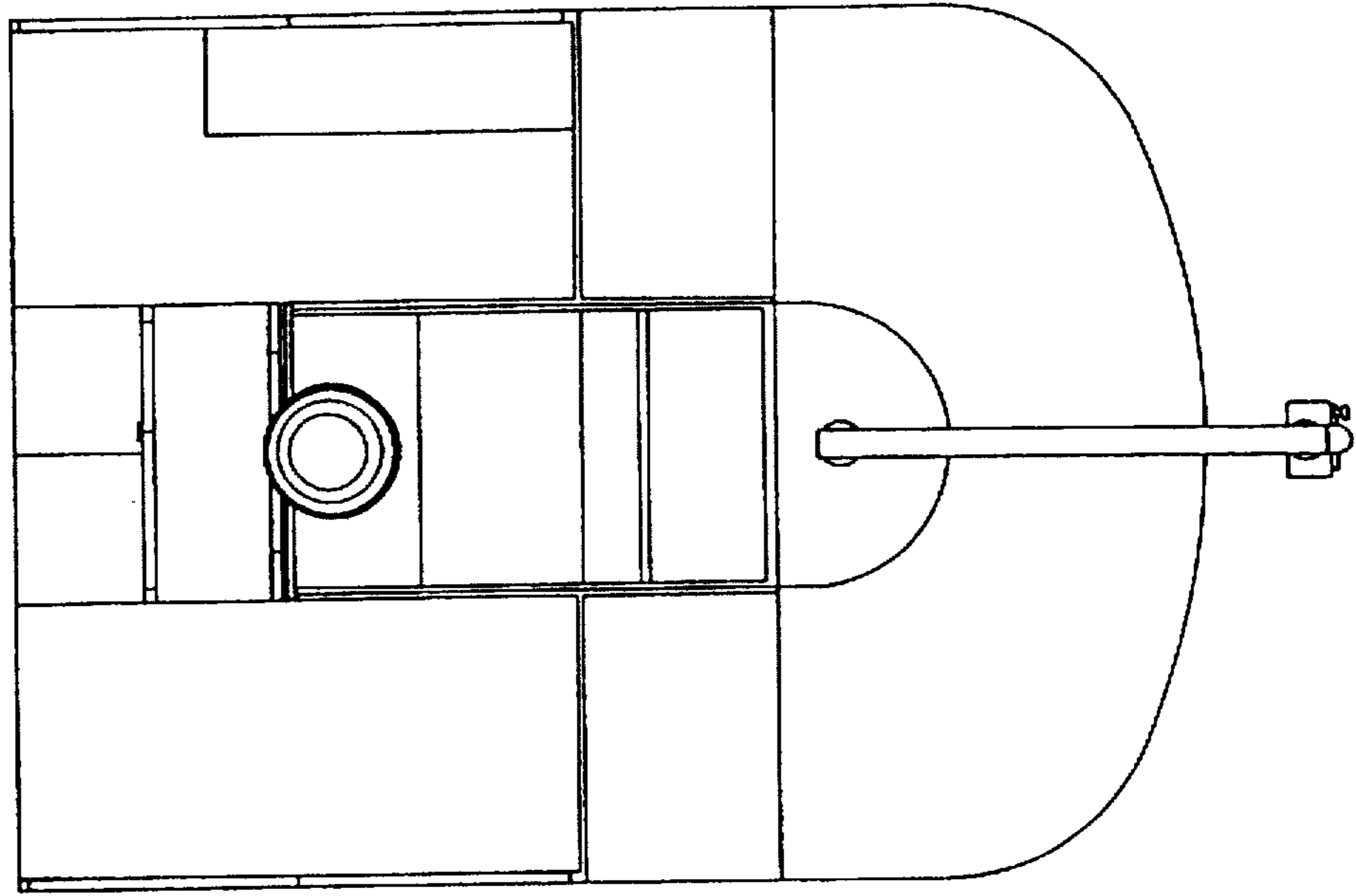


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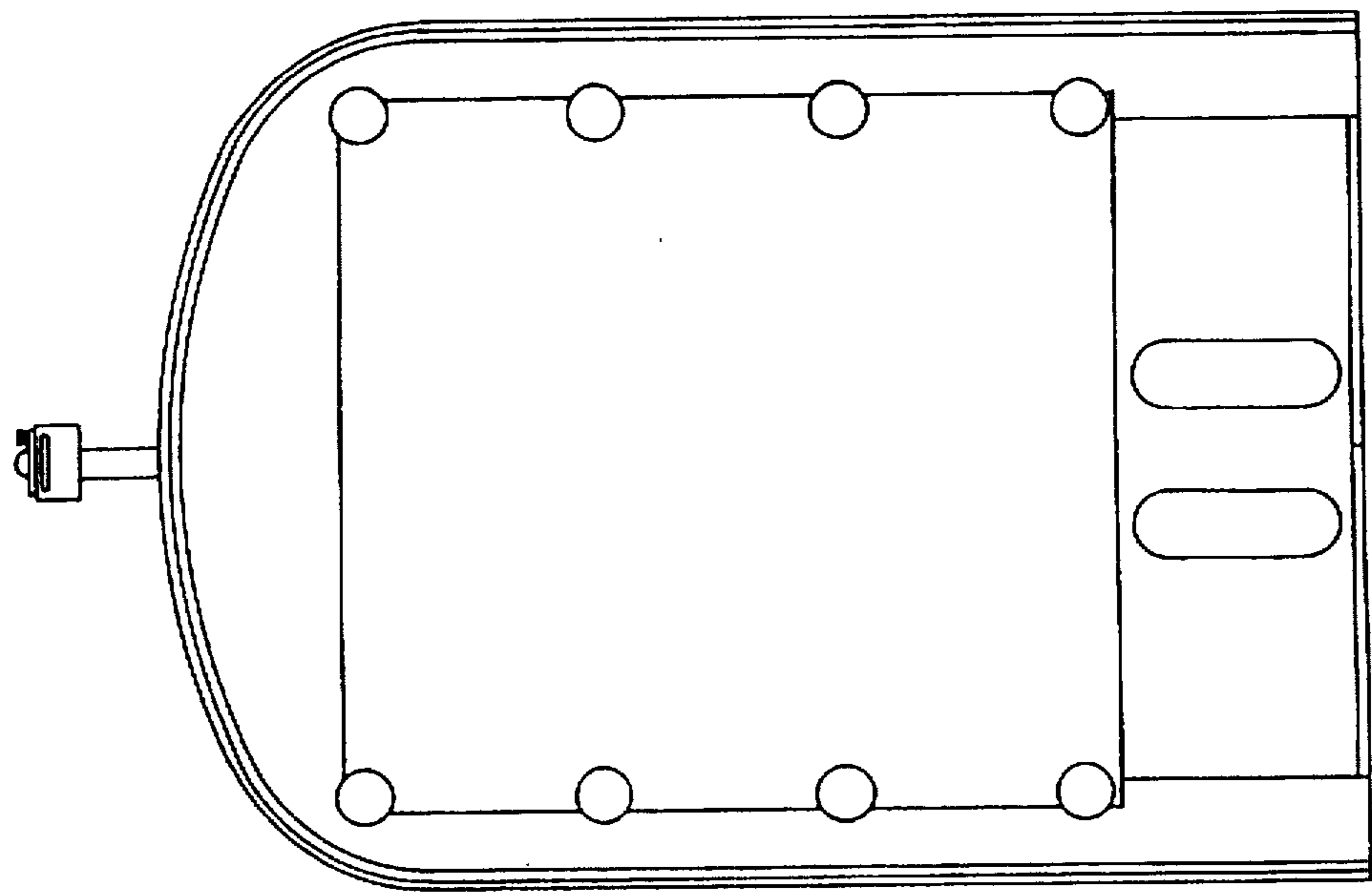


Fig. 49

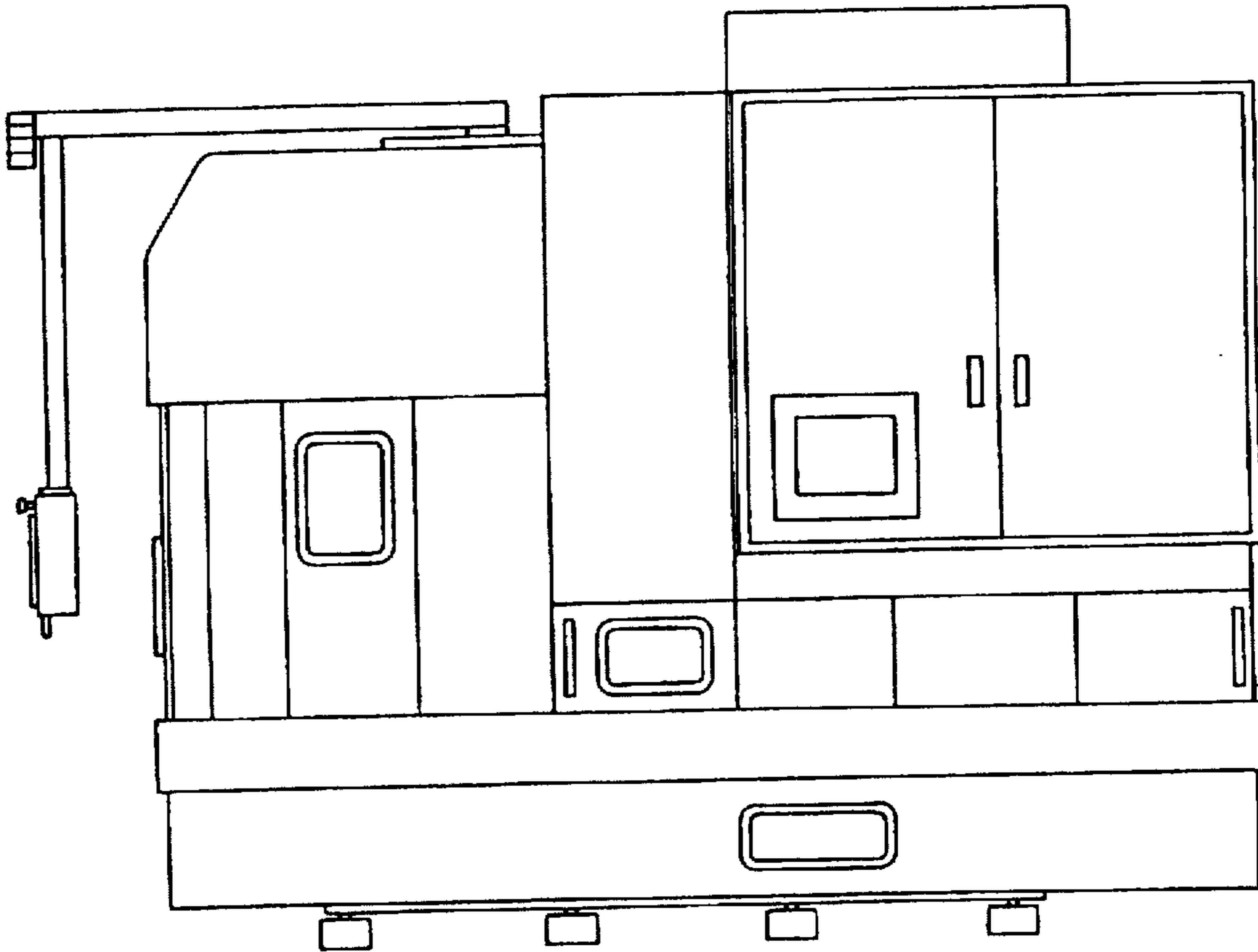


Fig. 50

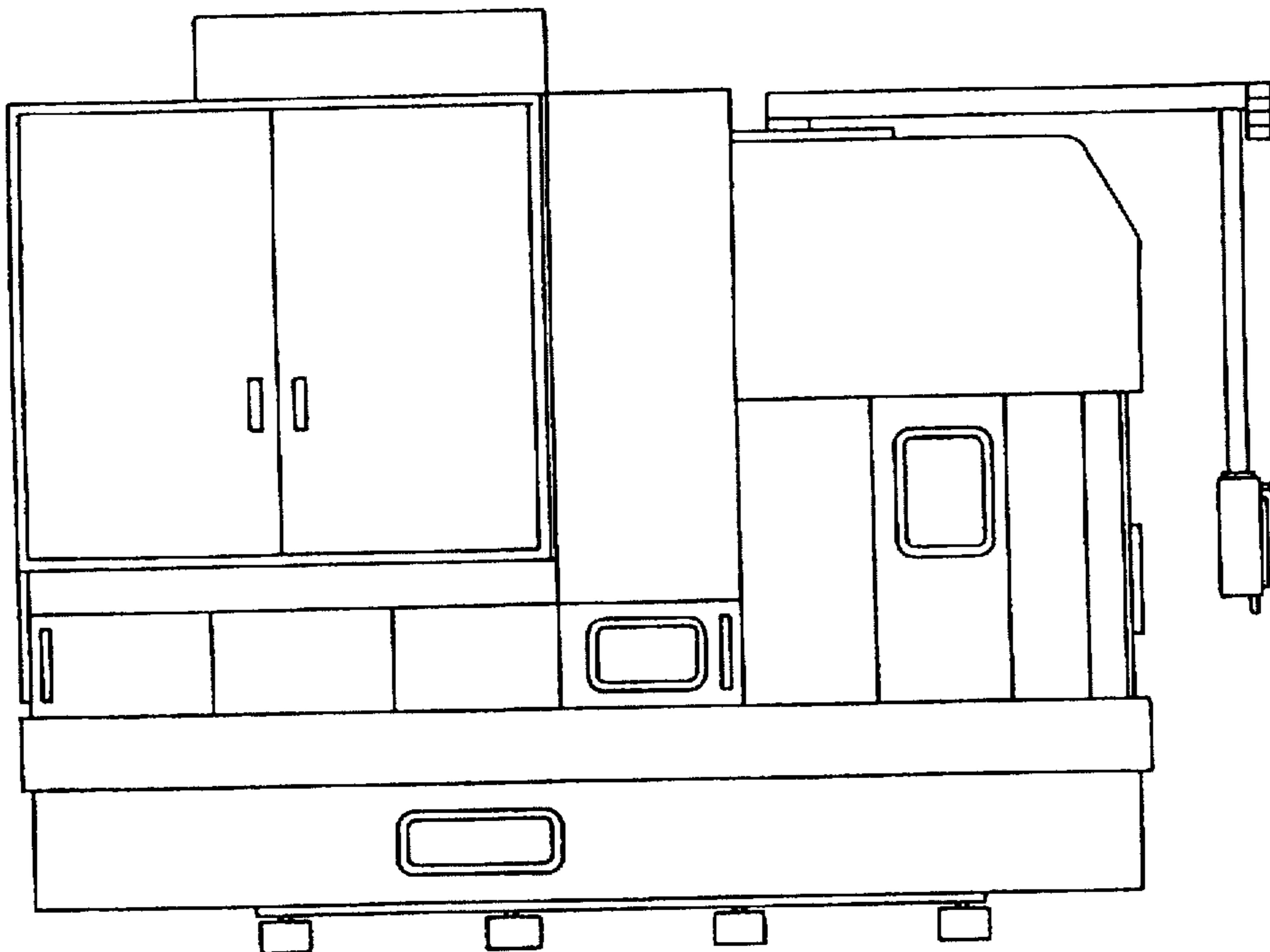


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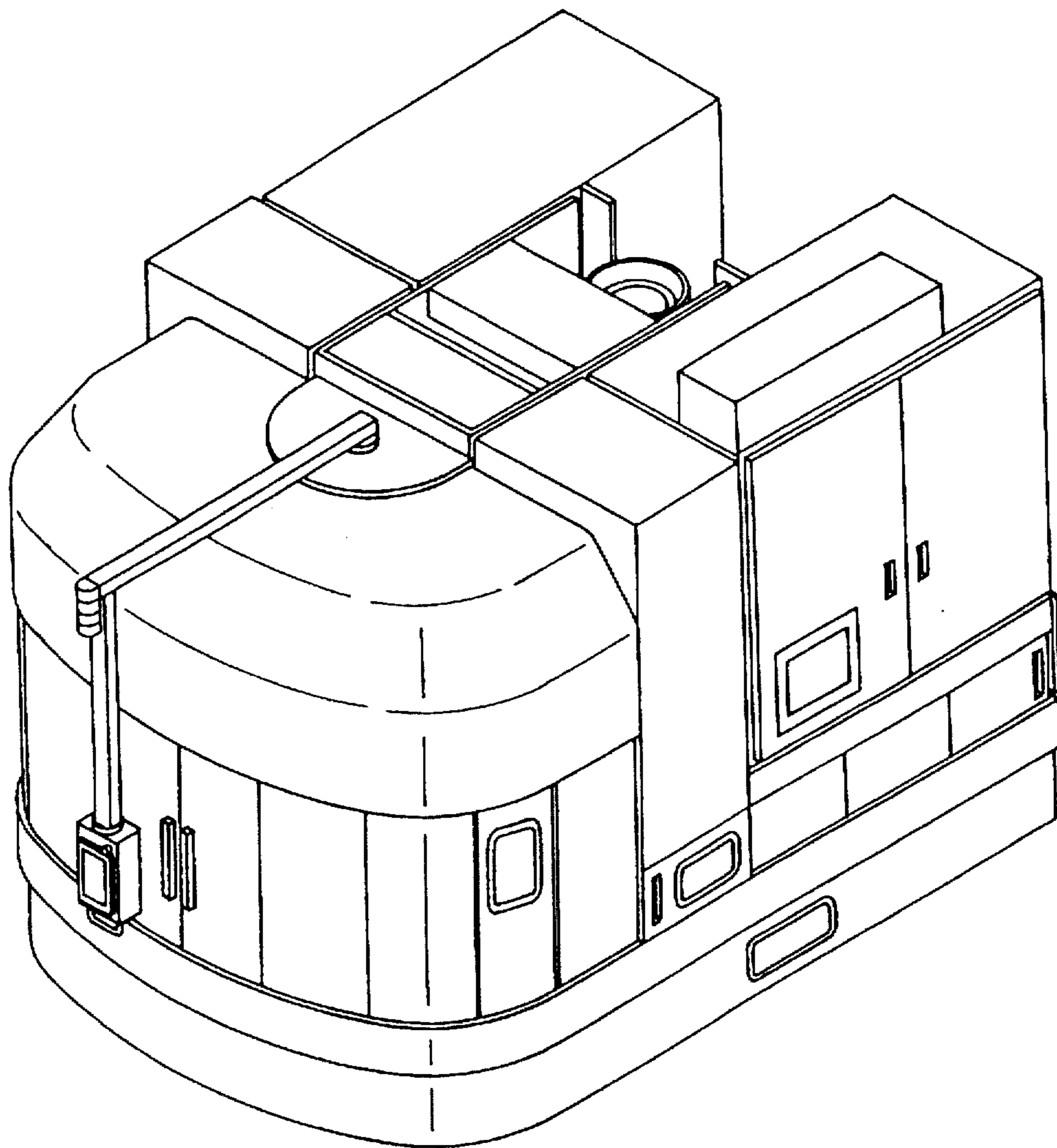


Fig. 52

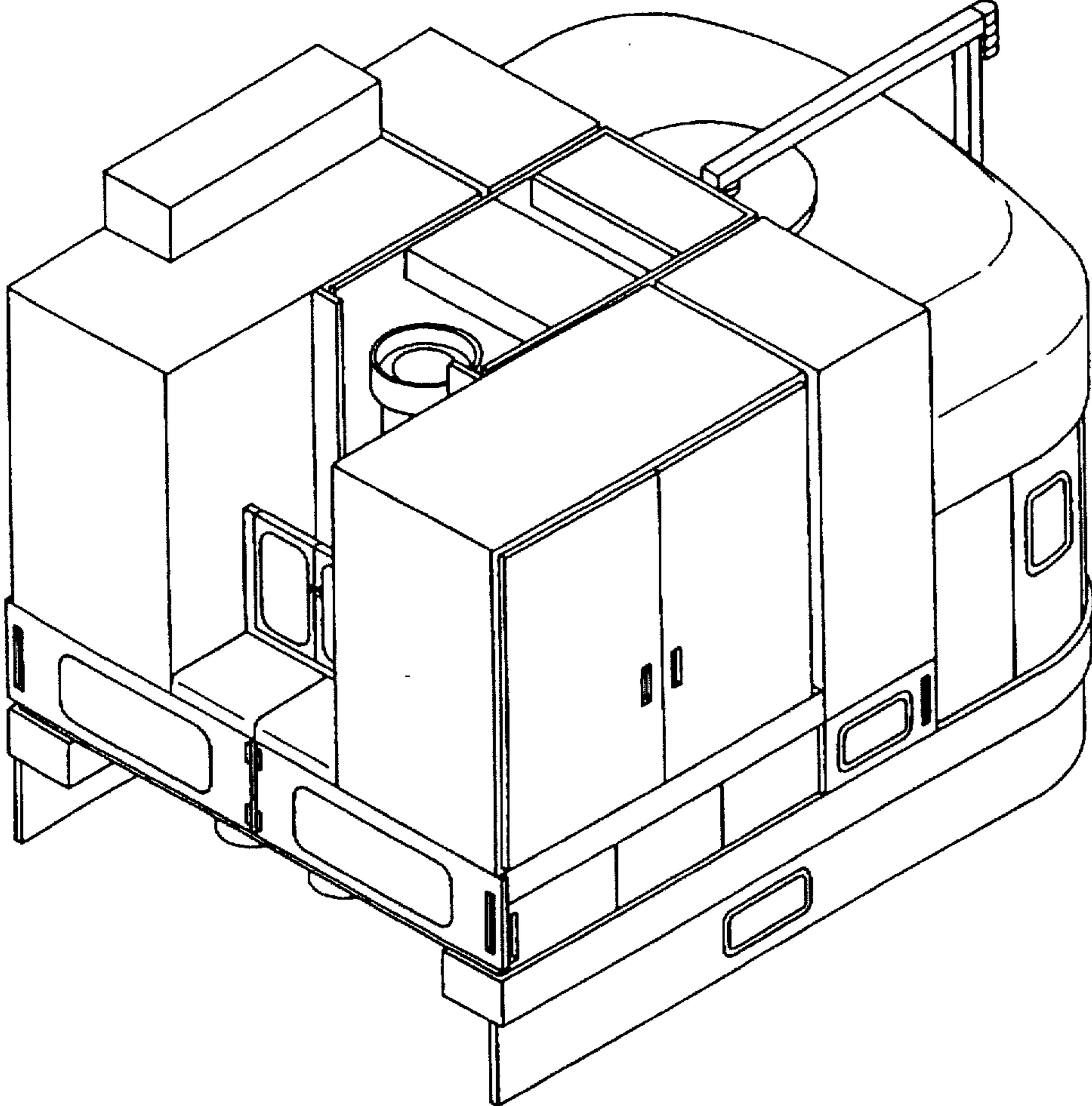


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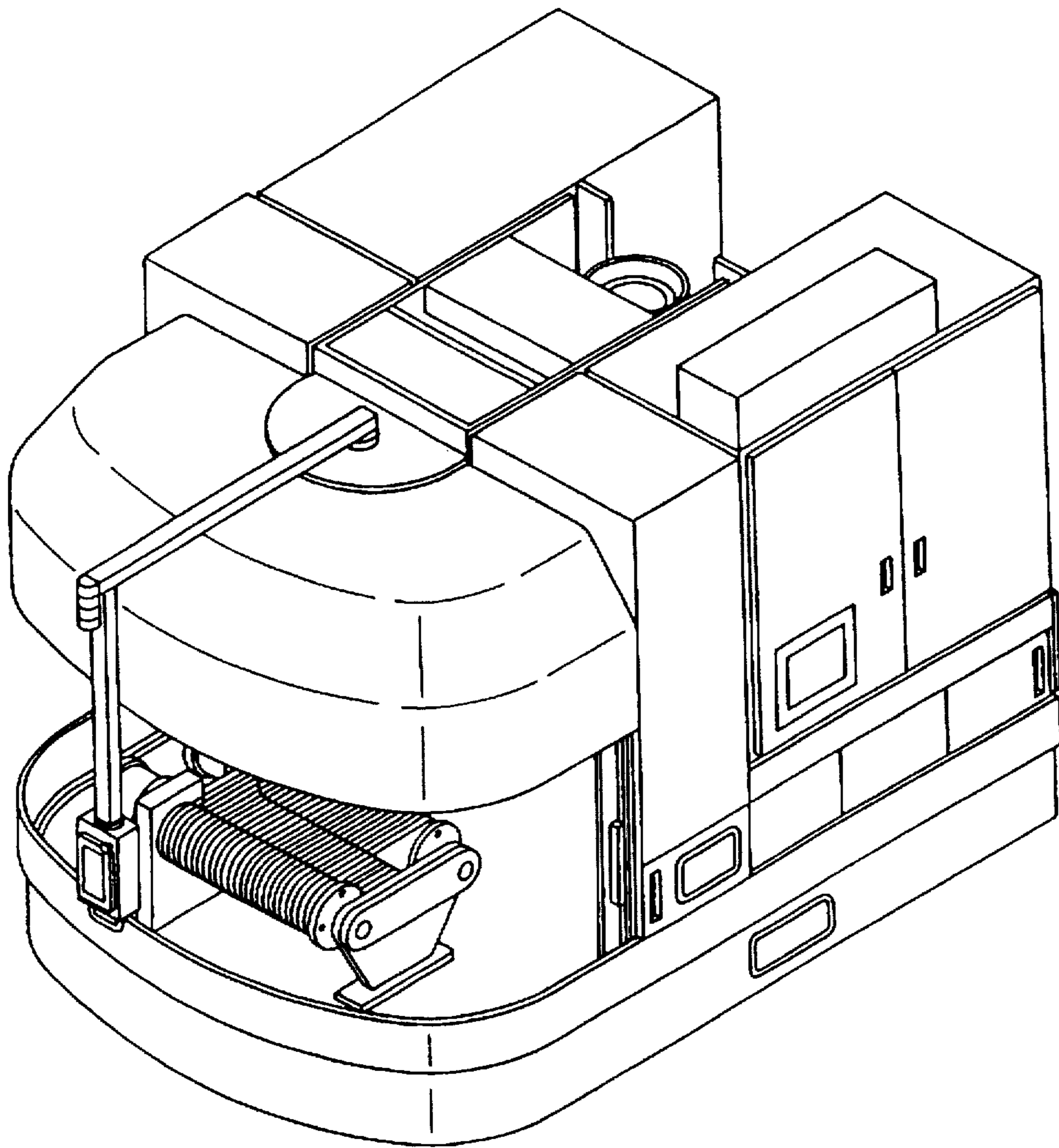


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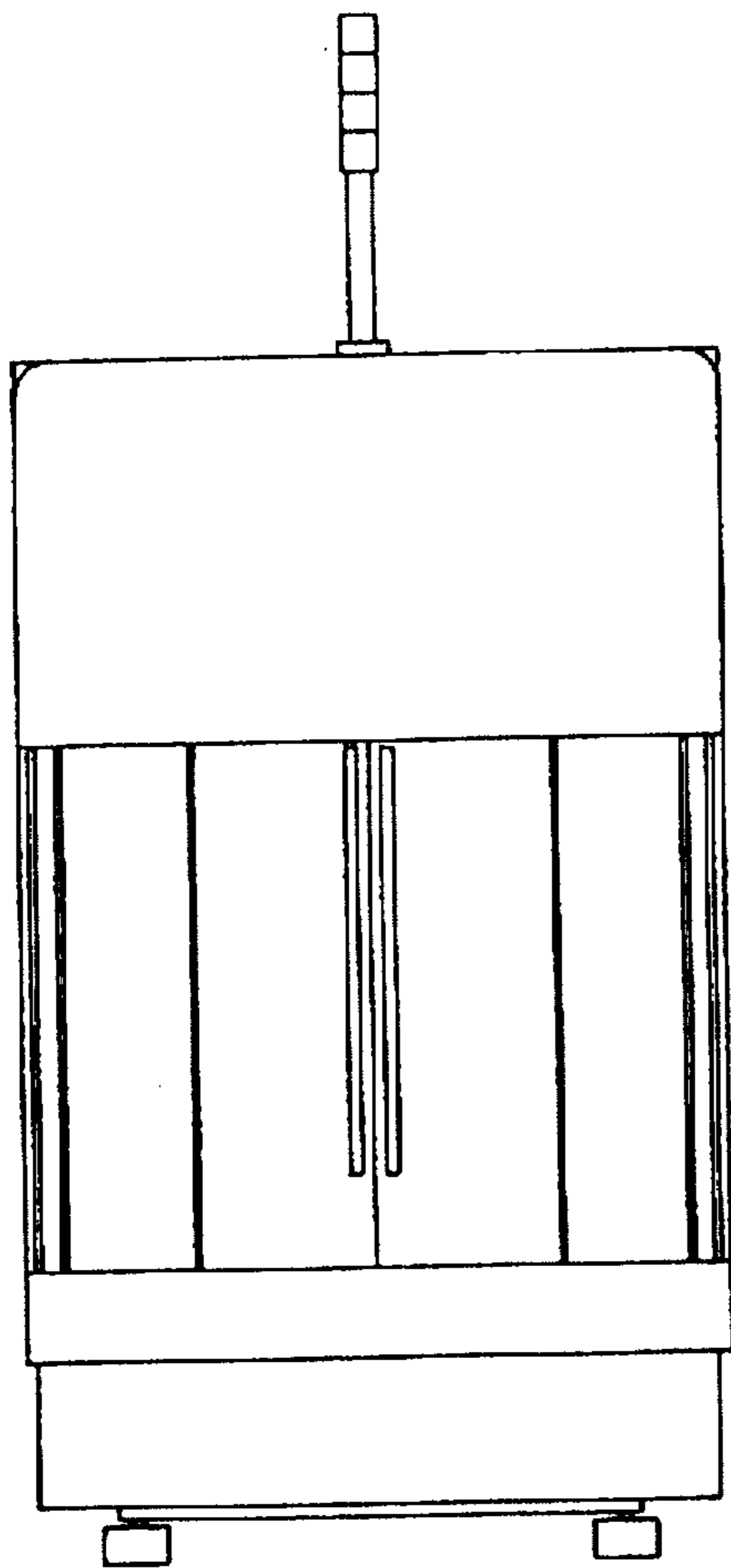


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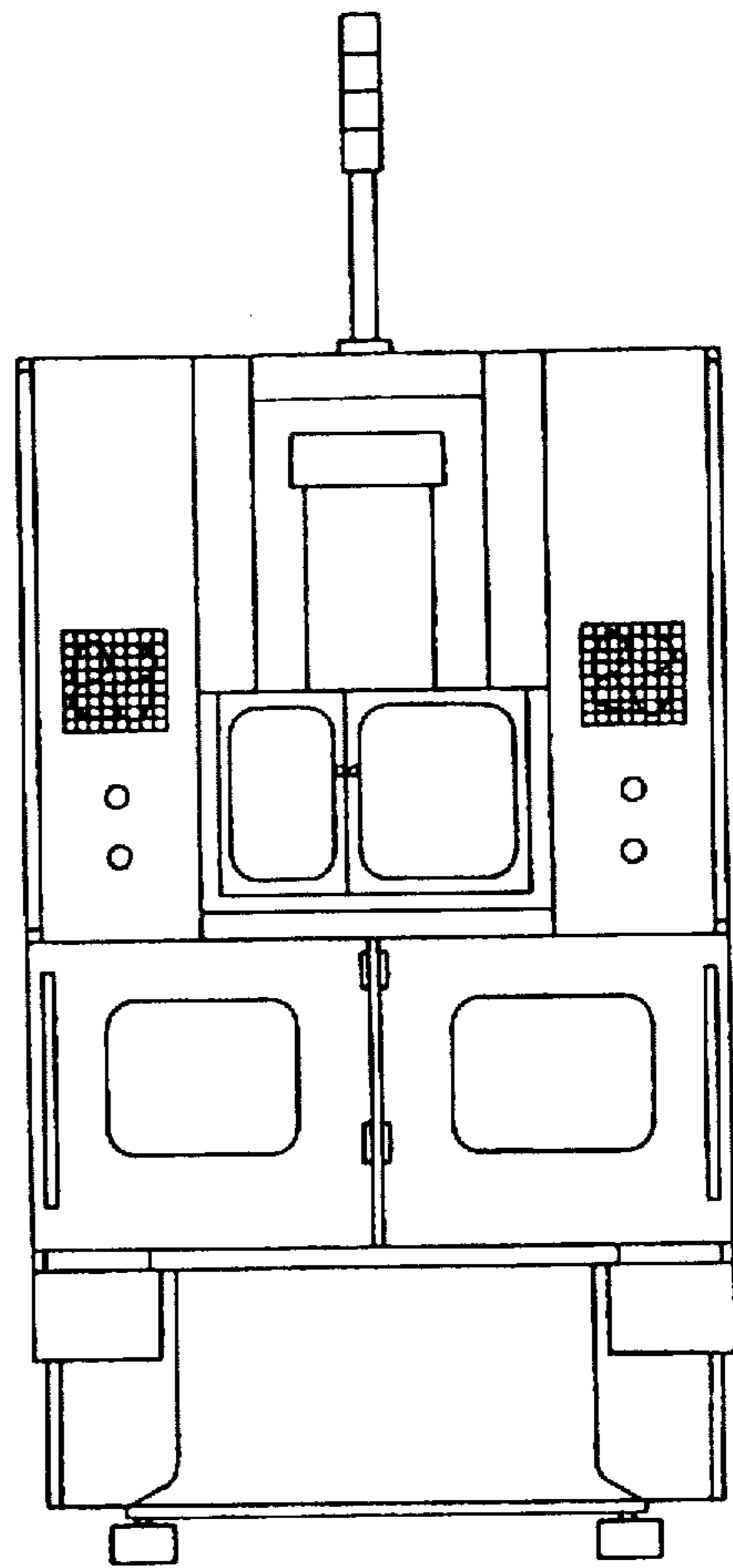


Fig. 56

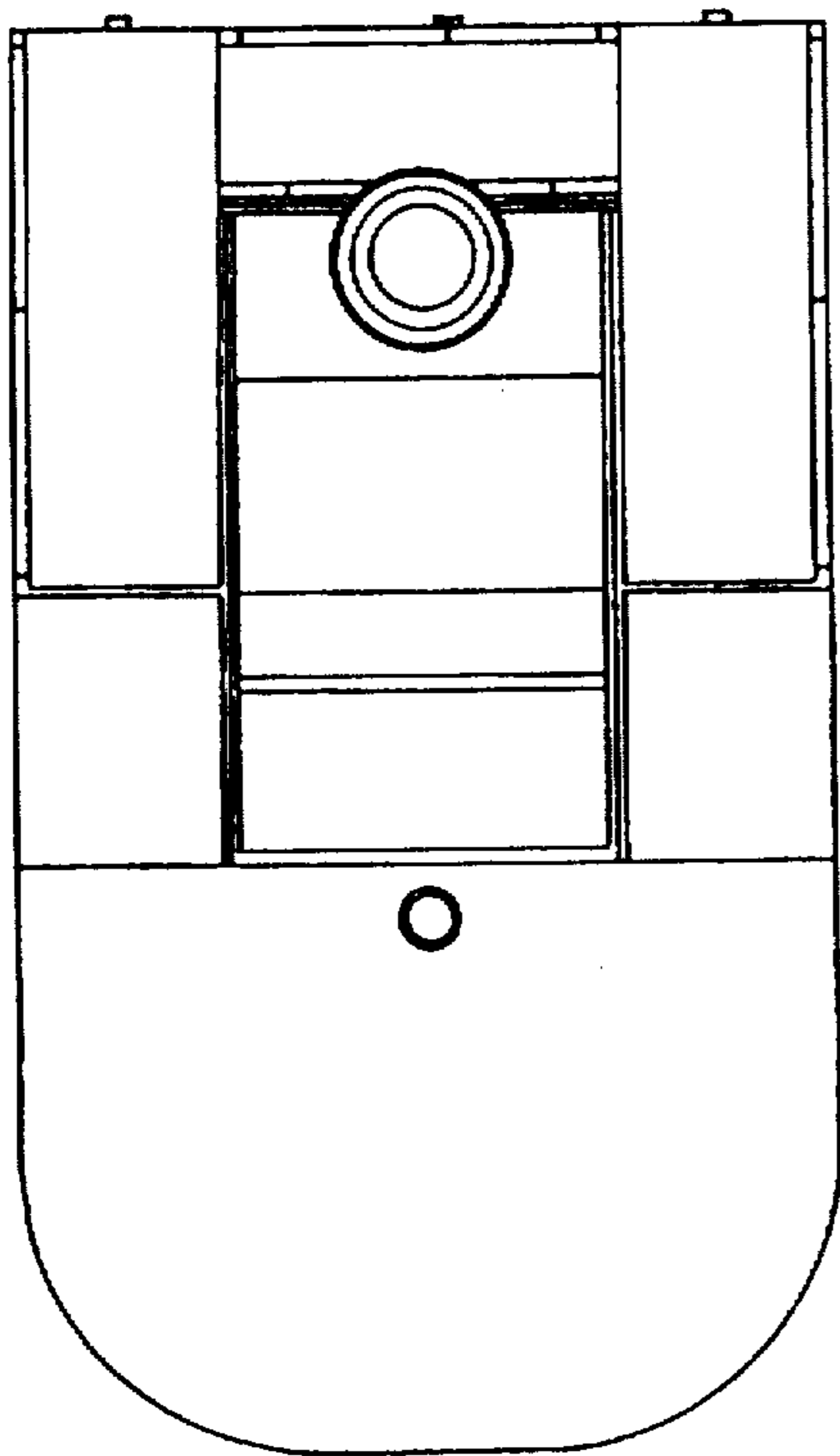


Fig. 57

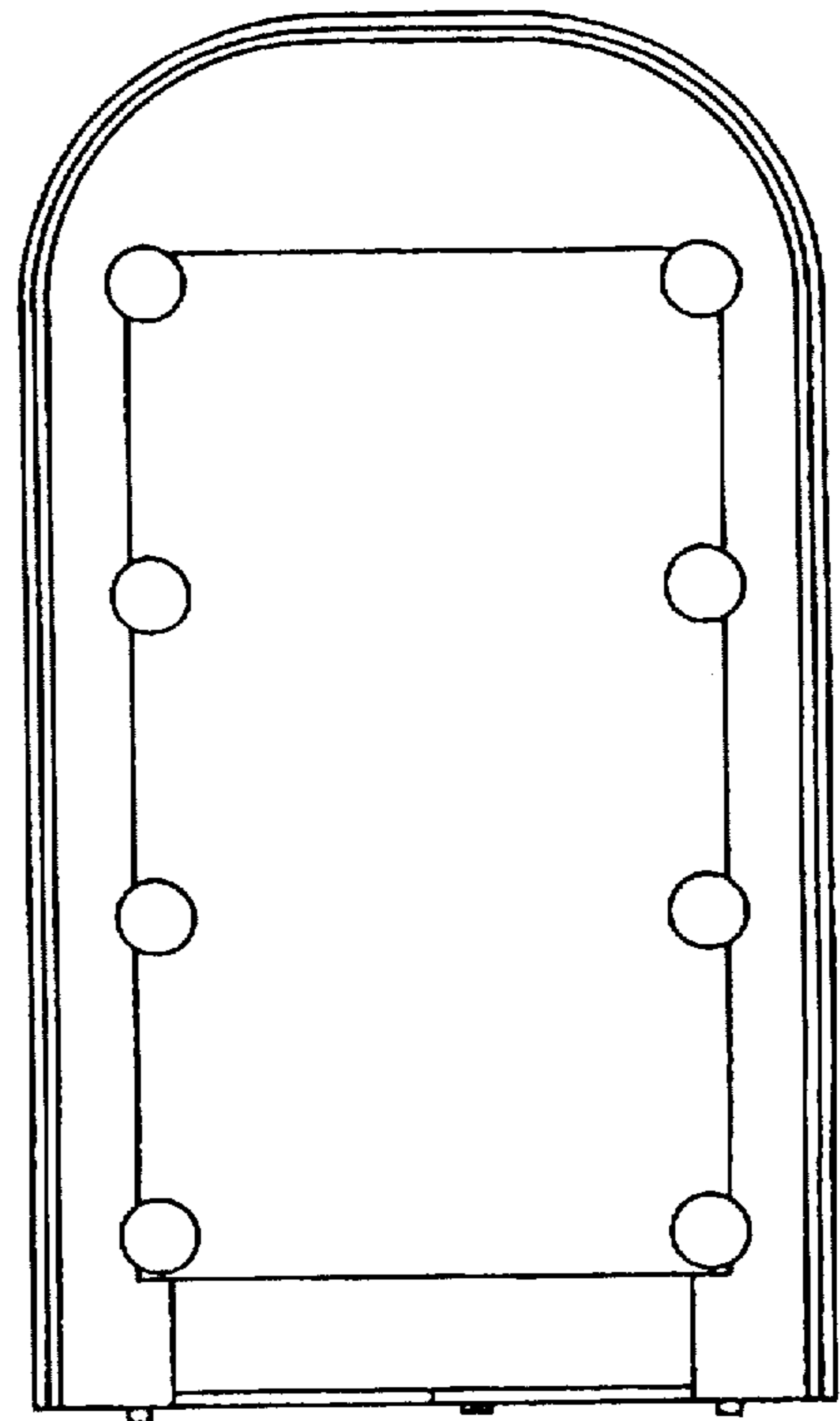


Fig. 58

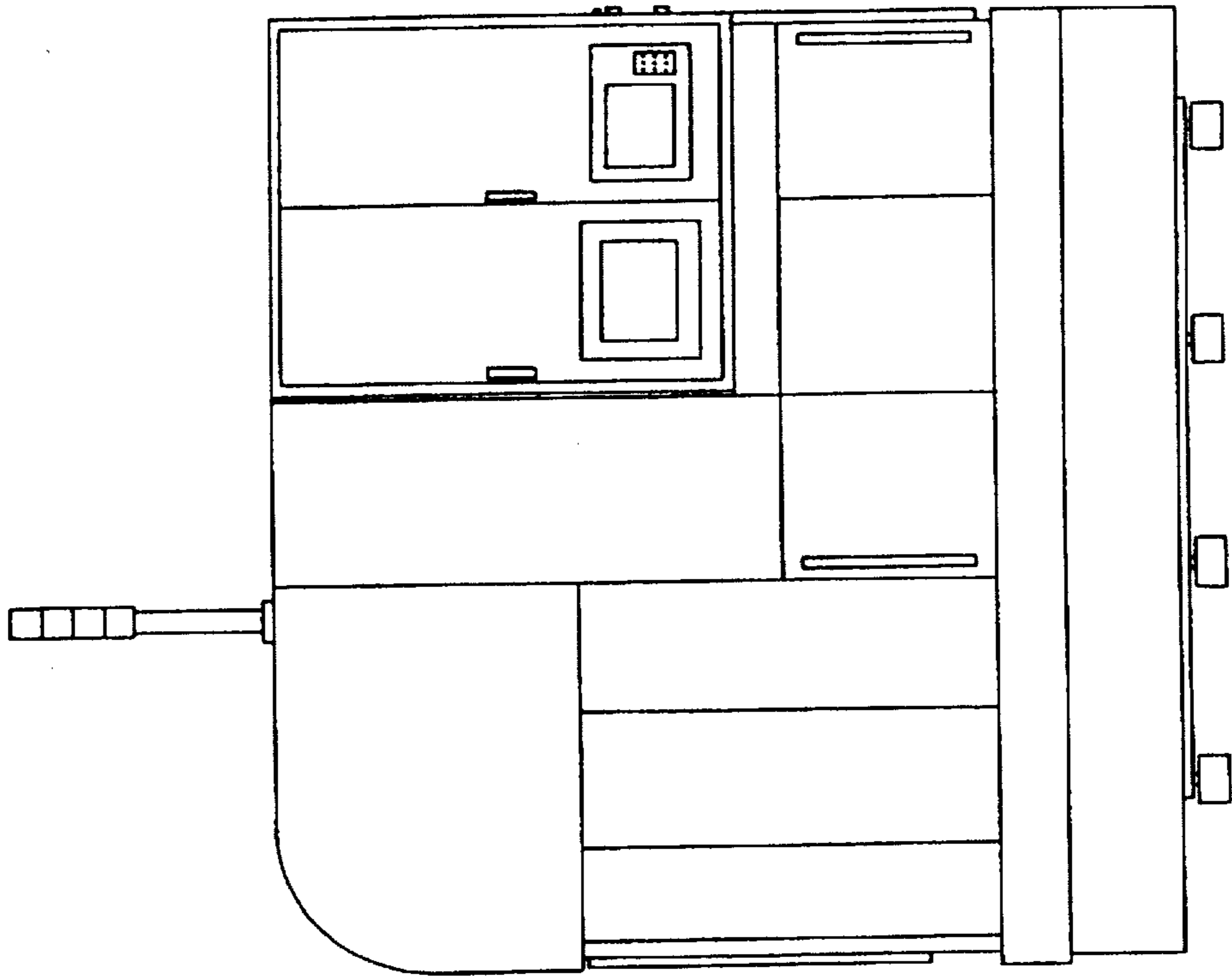


Fig. 59

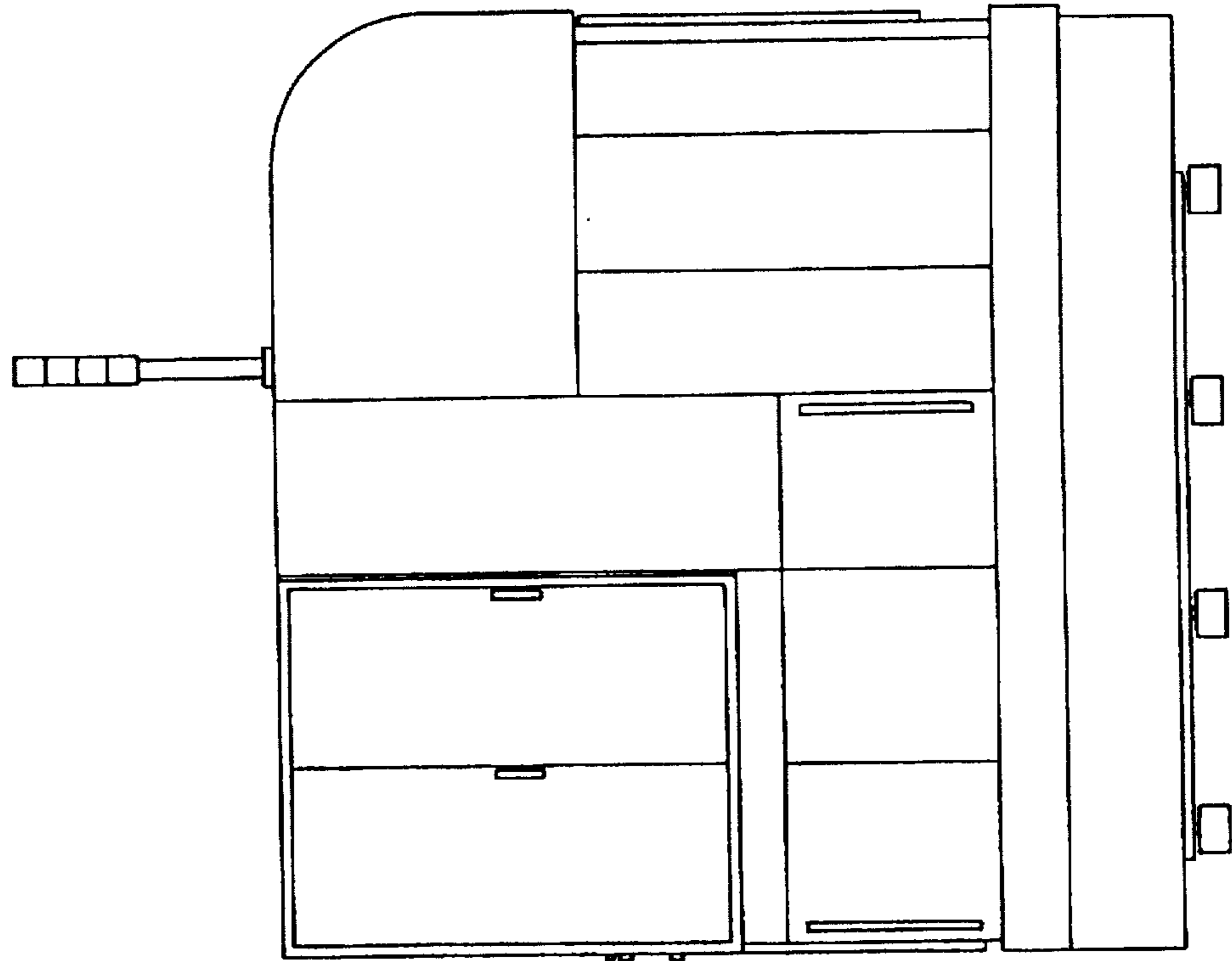


Fig. 60

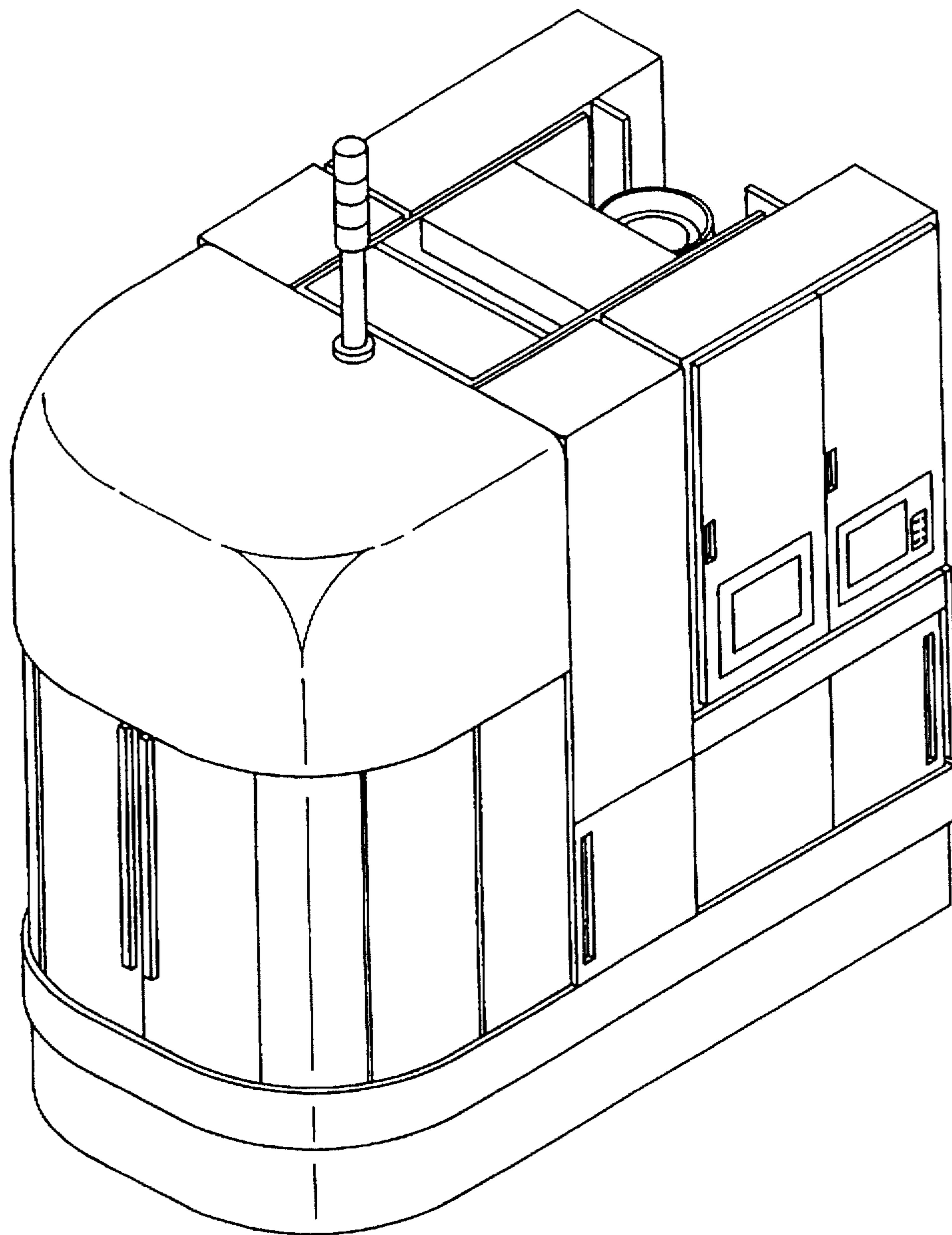


Fig. 61

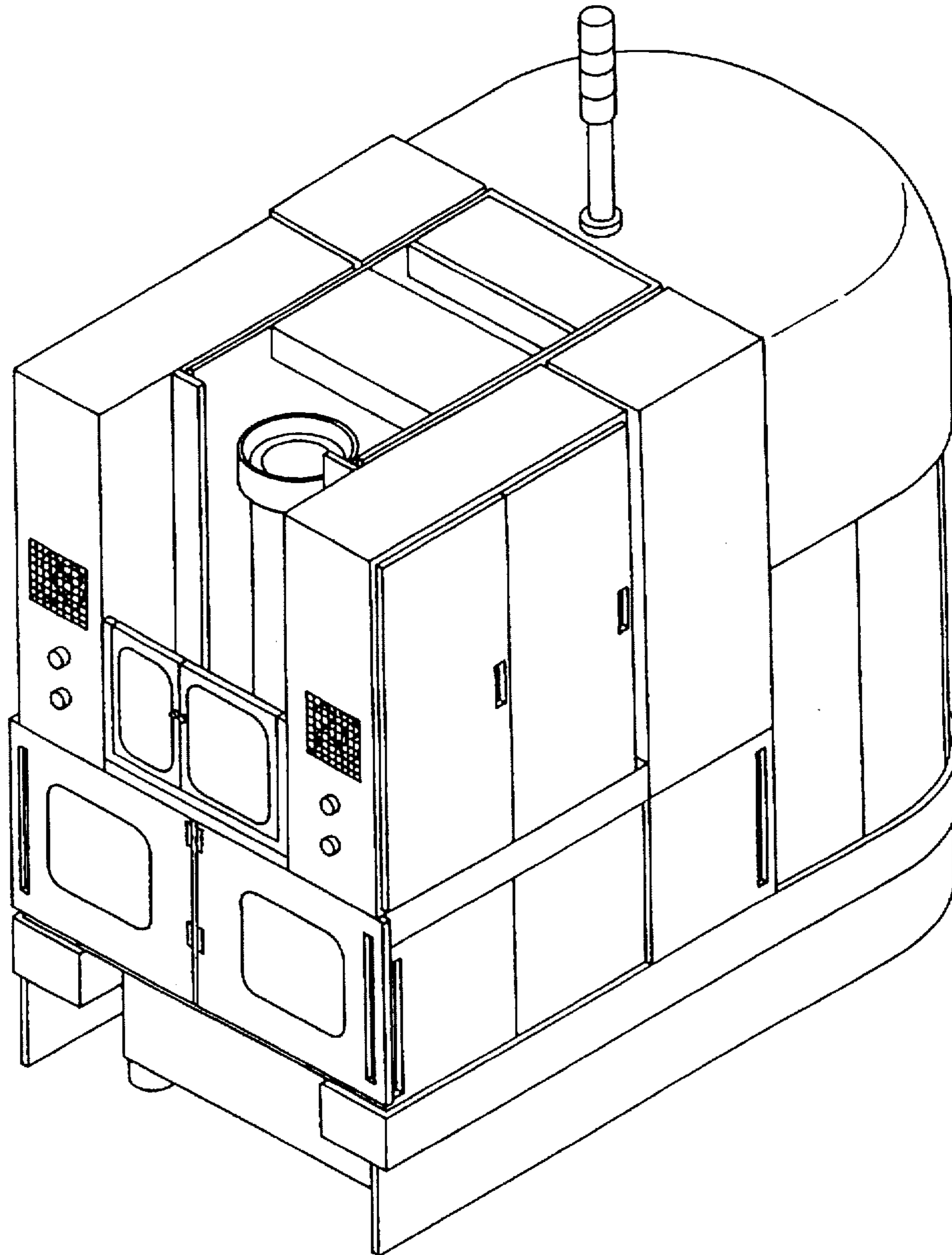


Fig. 62

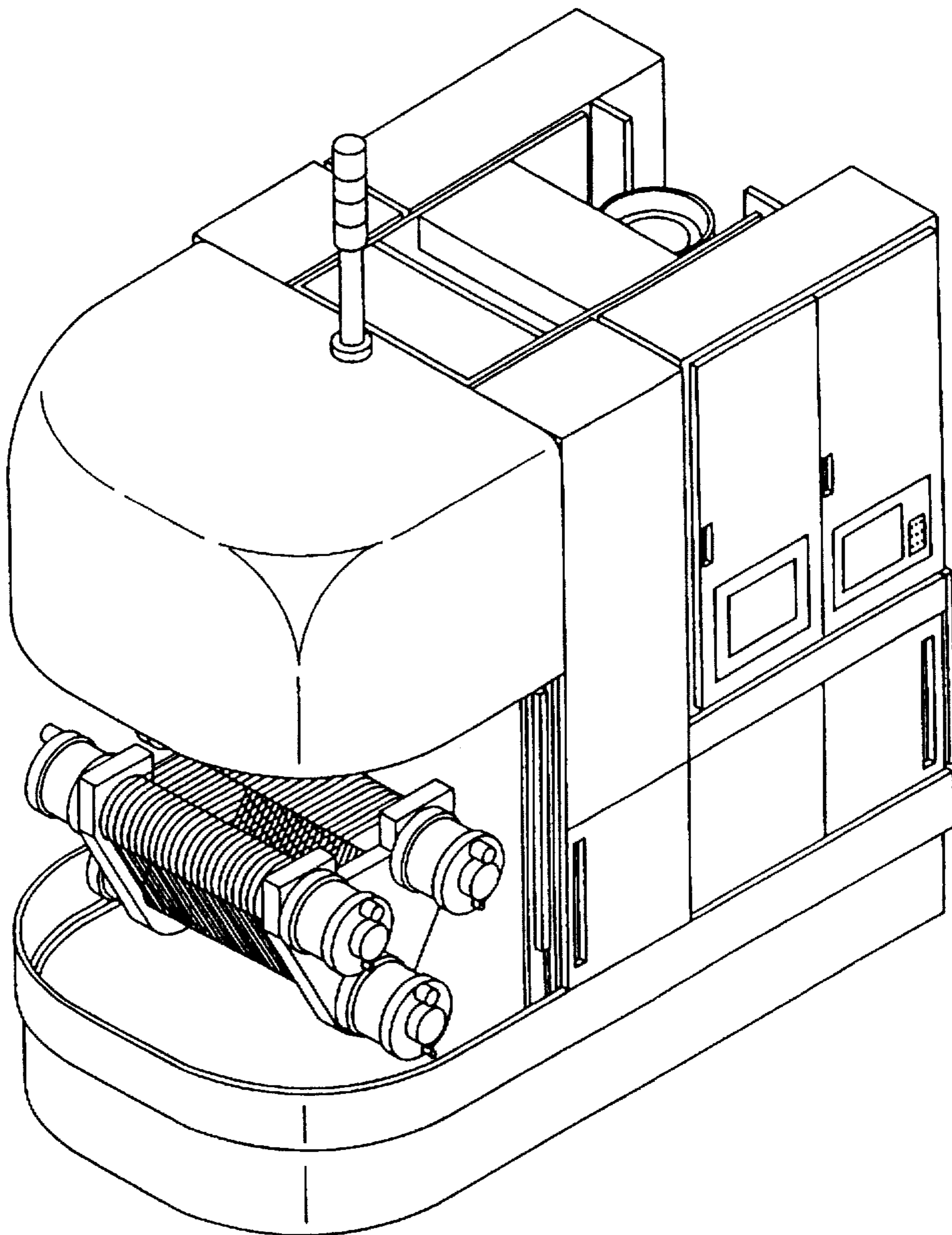


Fig. 63

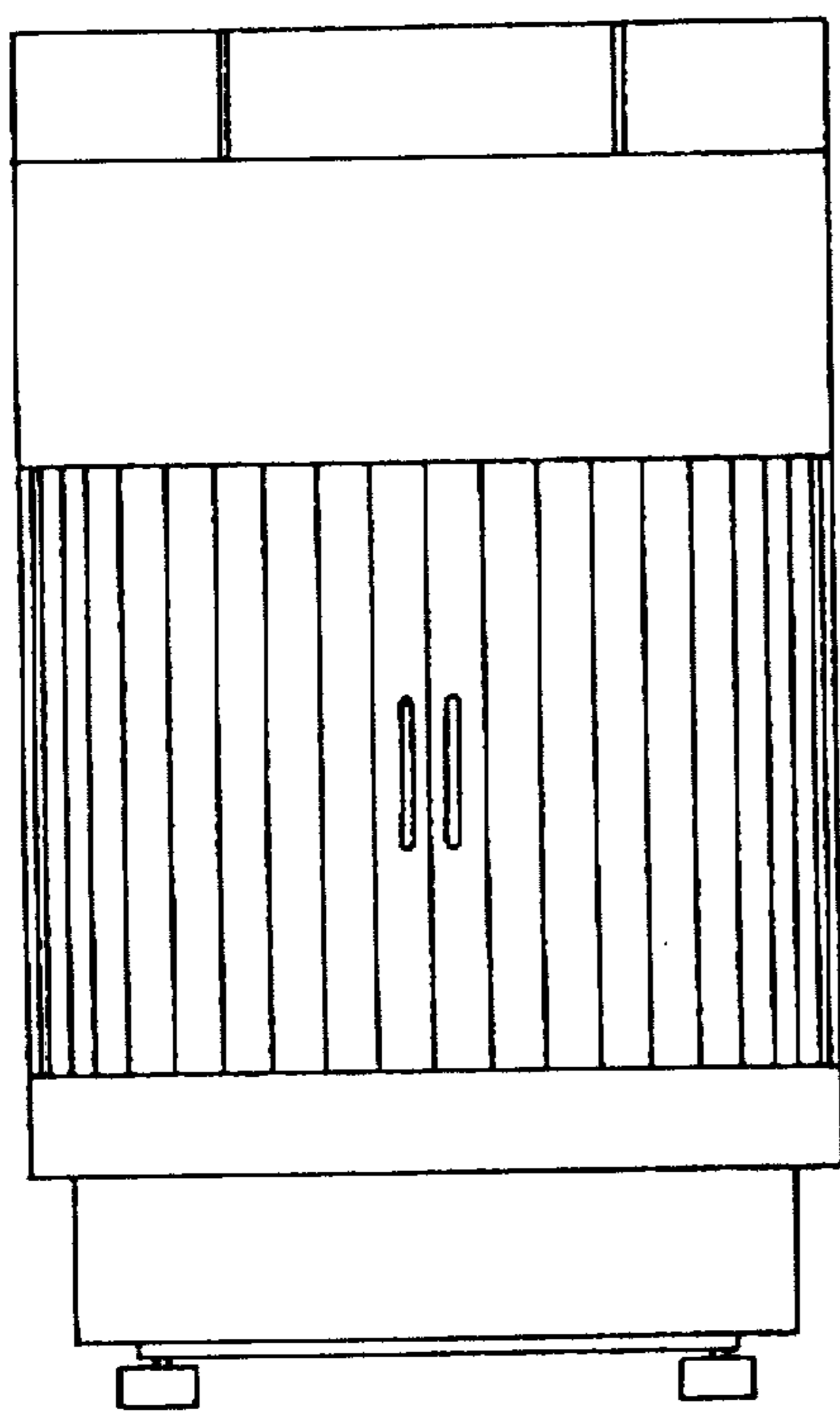


Fig. 64

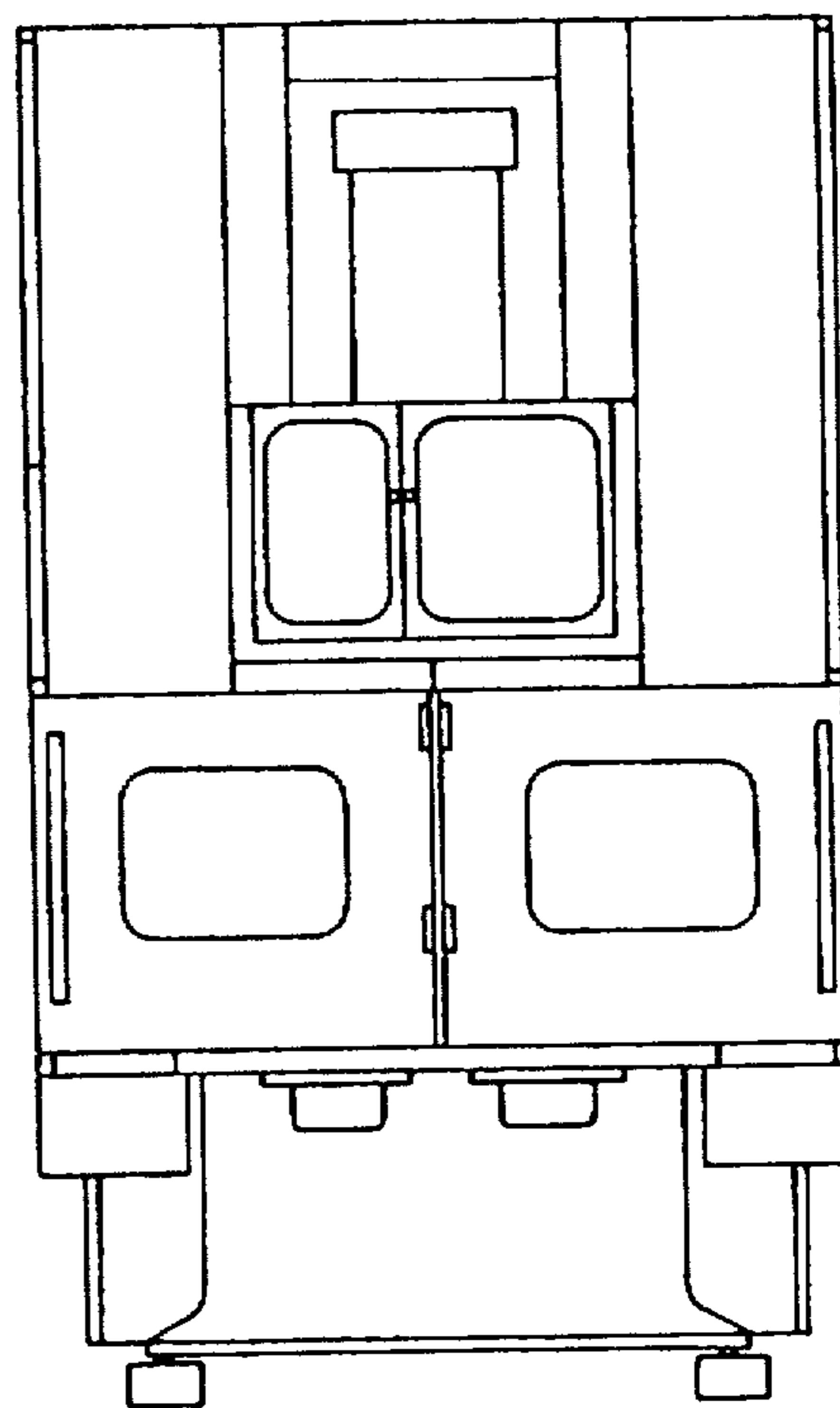


Fig. 65

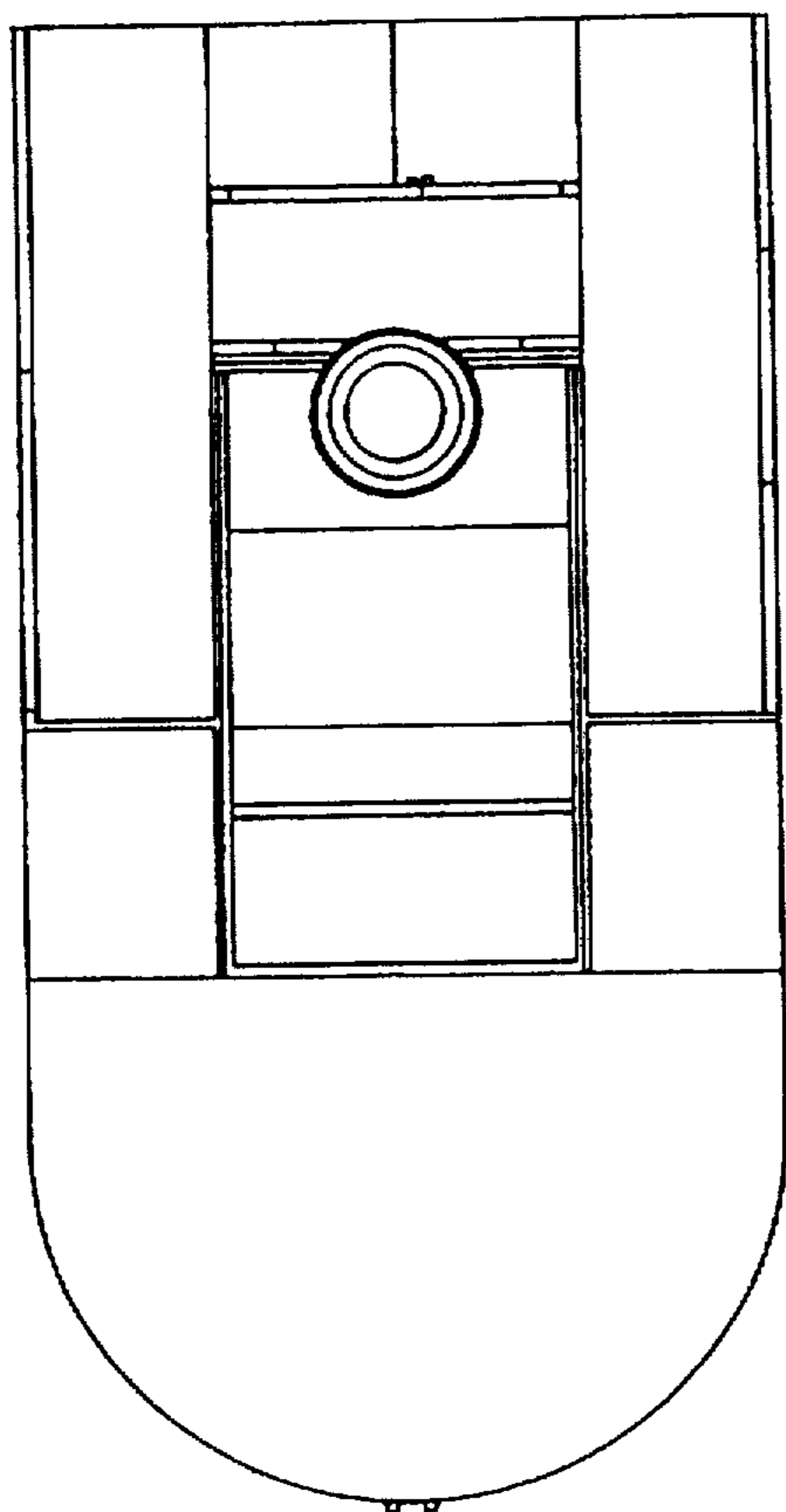


Fig. 66

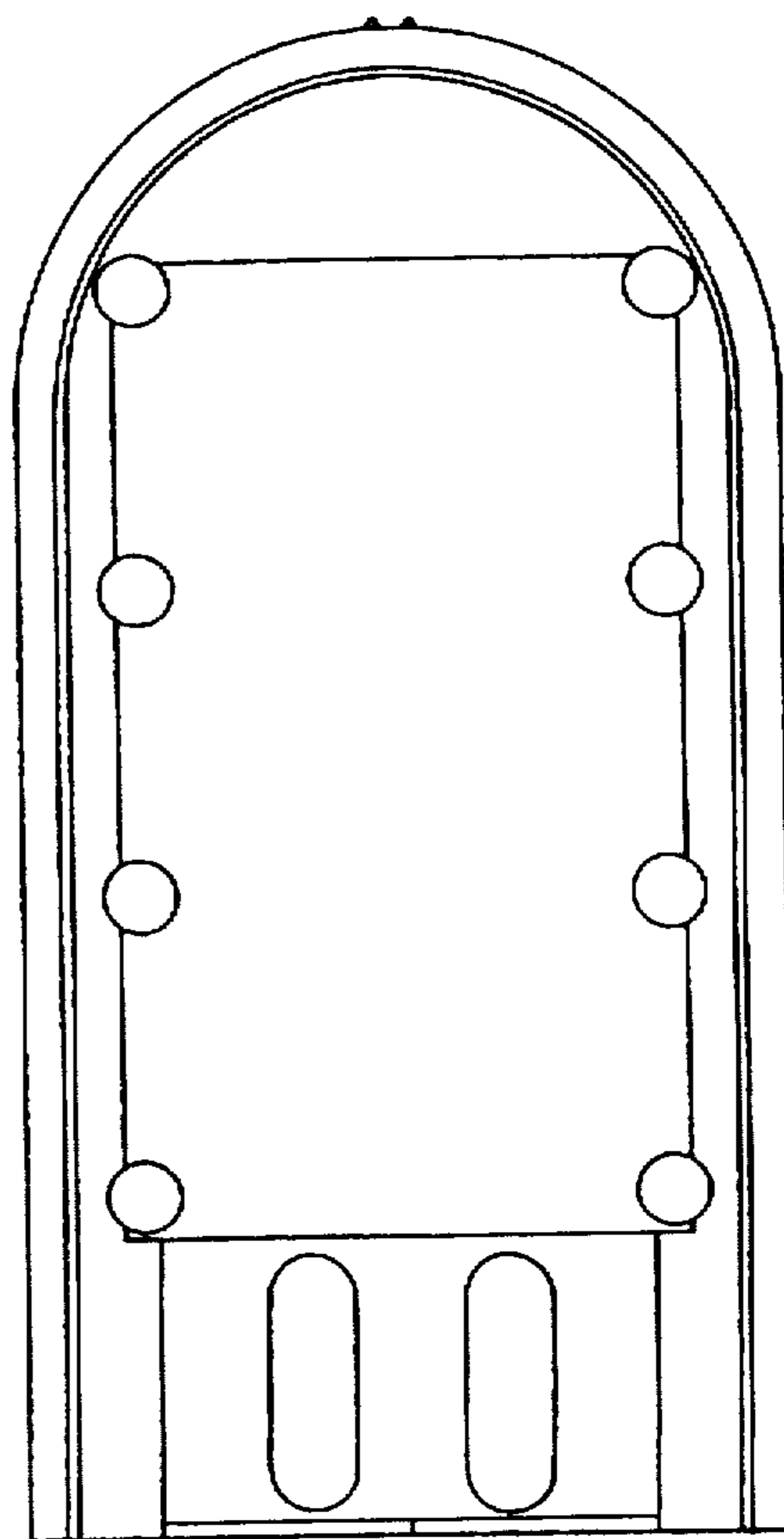


Fig. 67

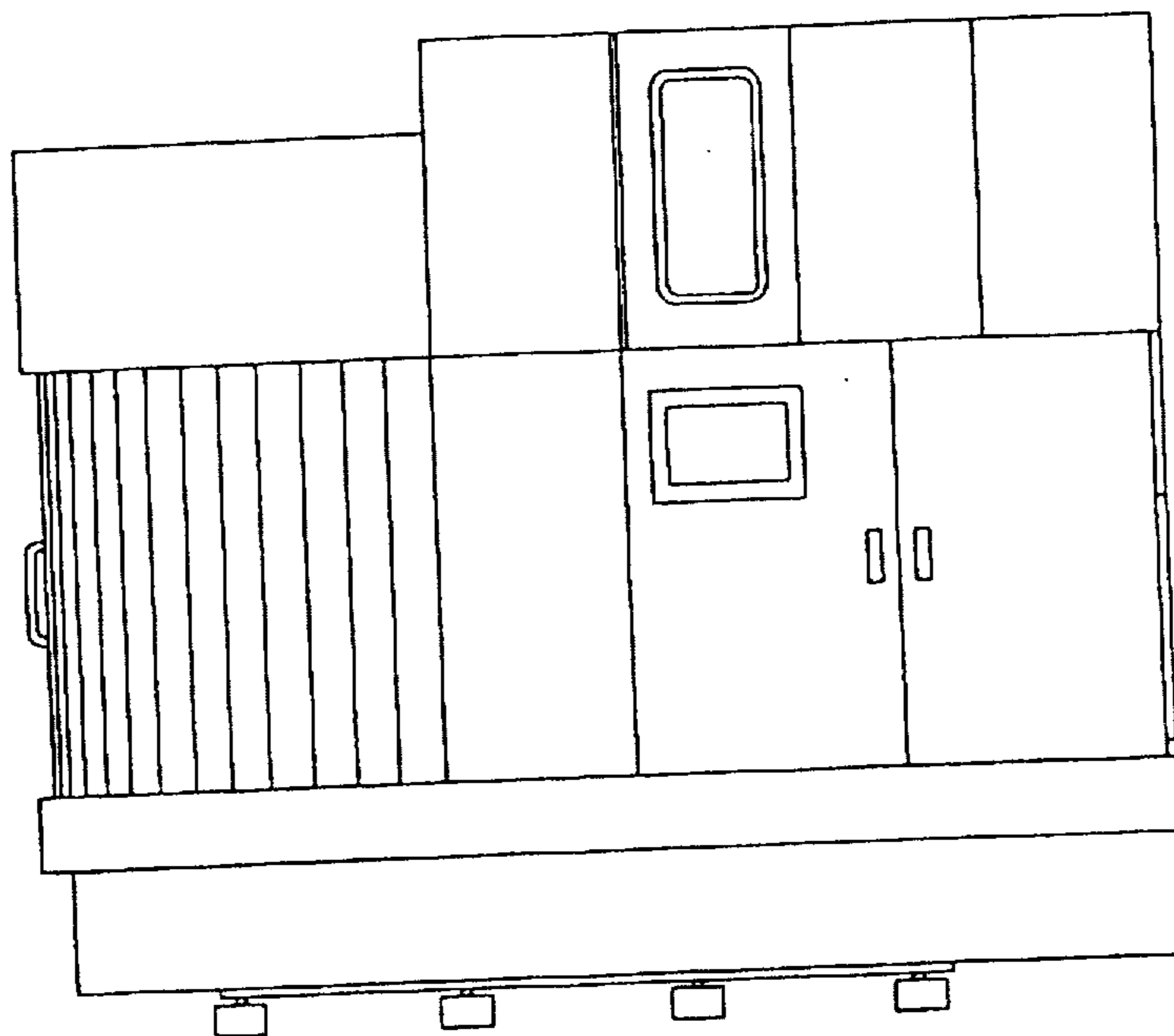


Fig. 68

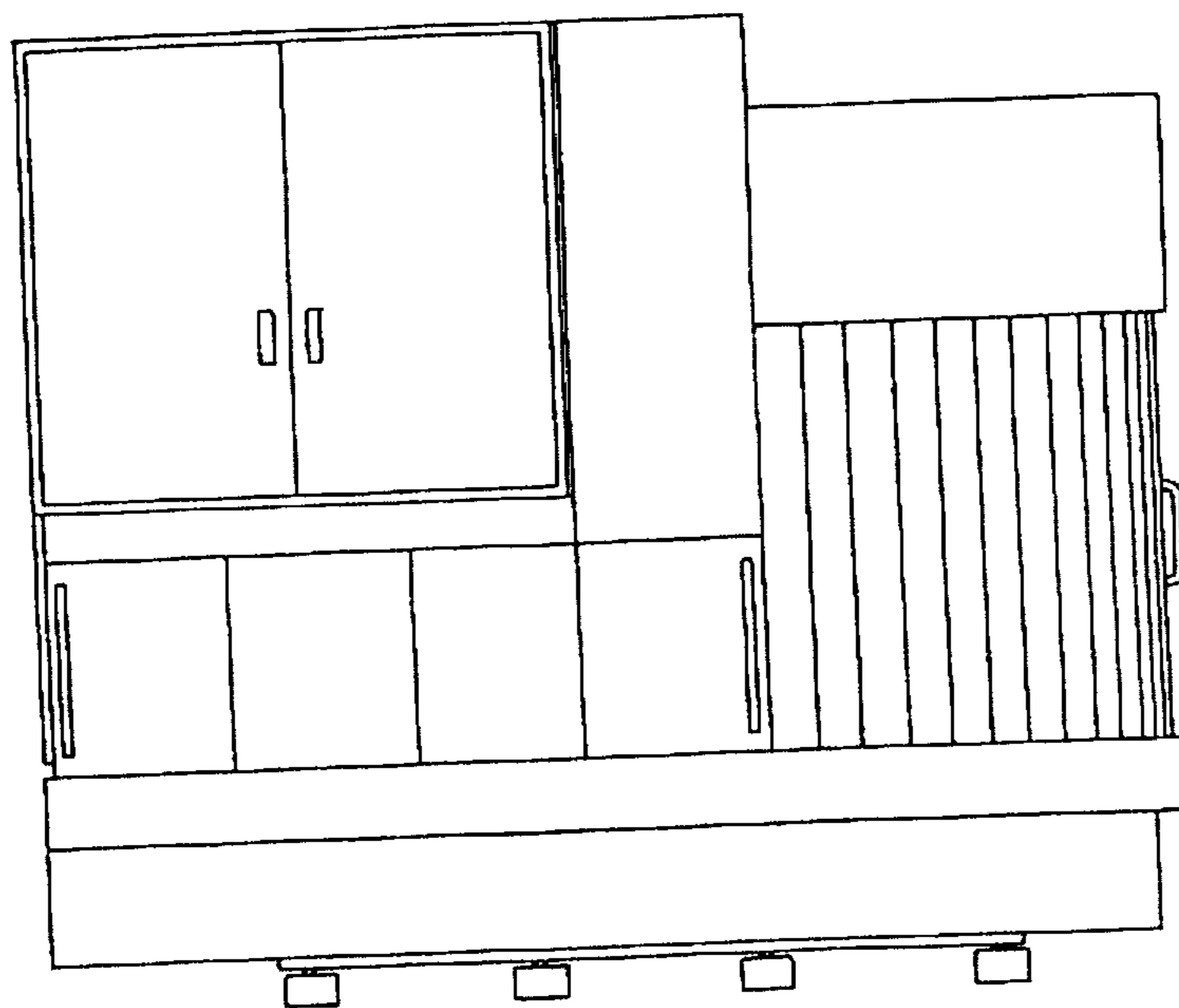


Fig. 69

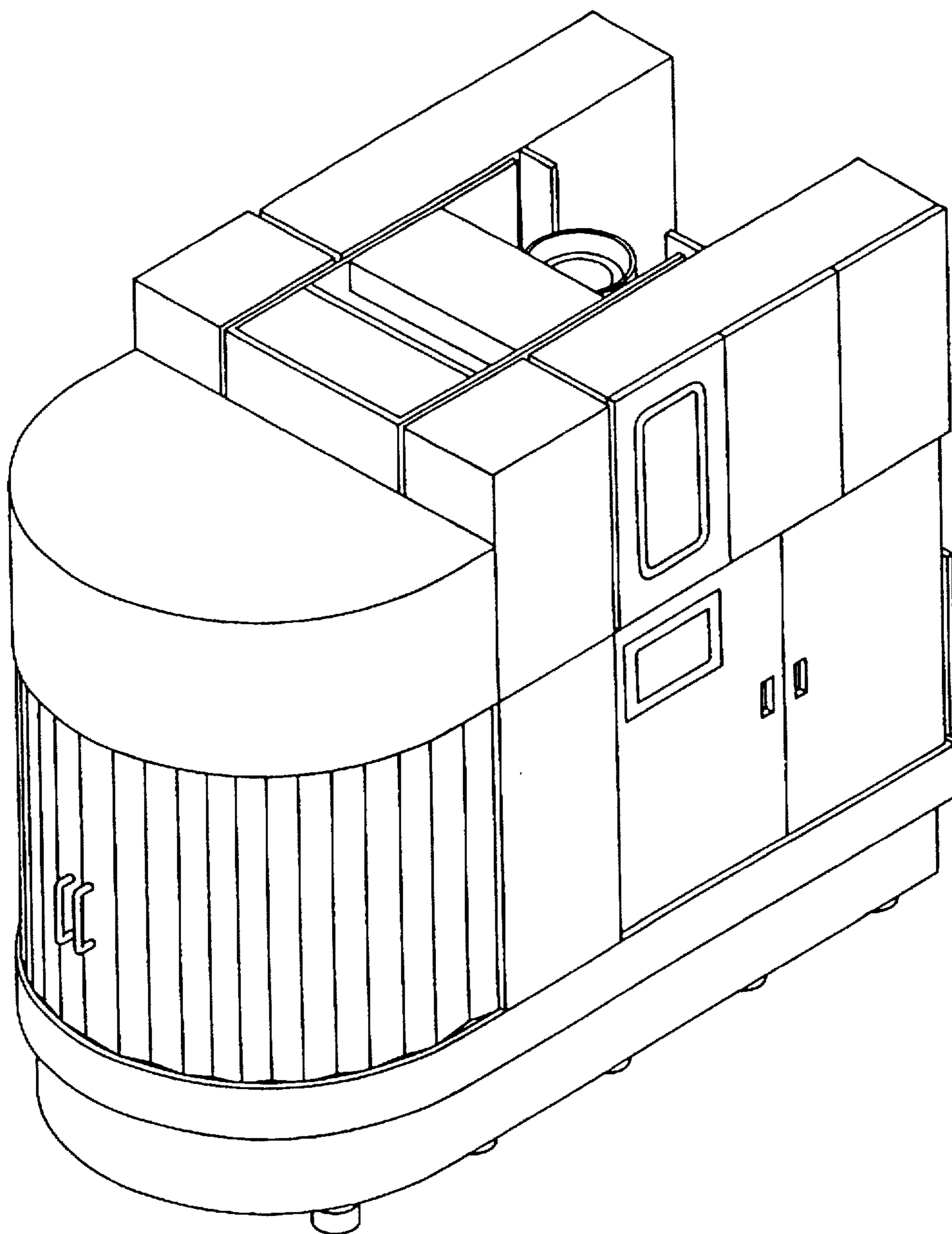


Fig. 70

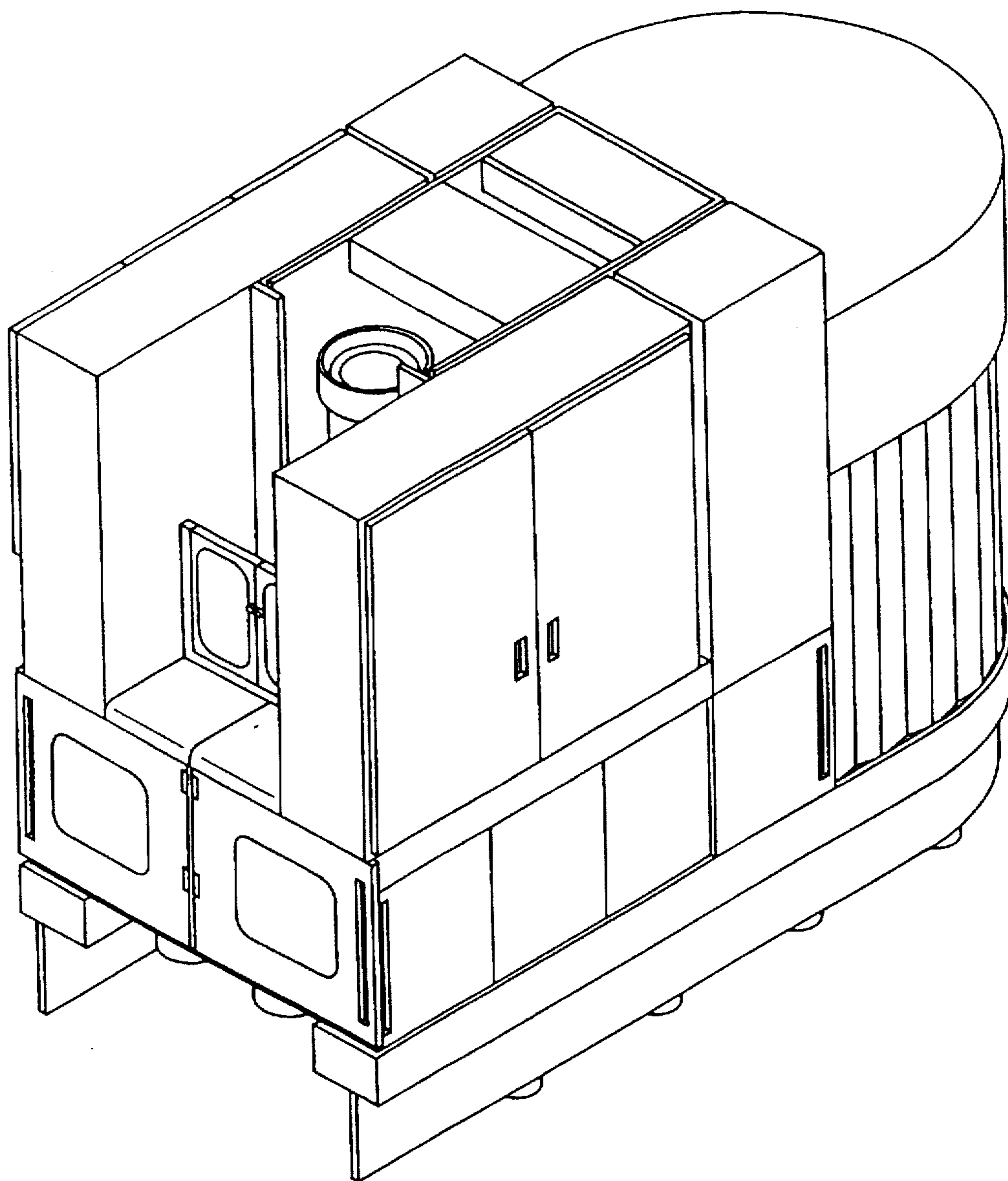


Fig. 71

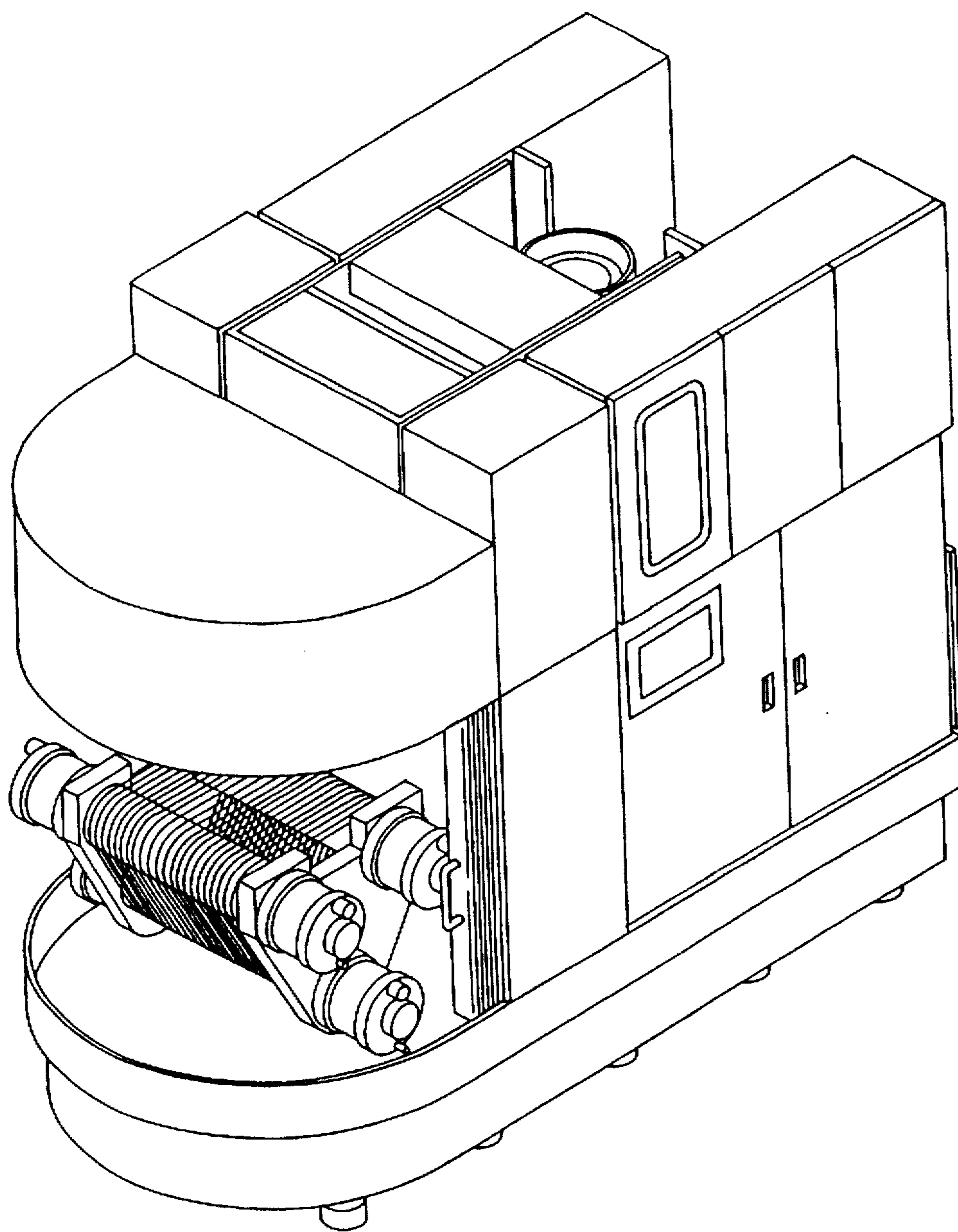


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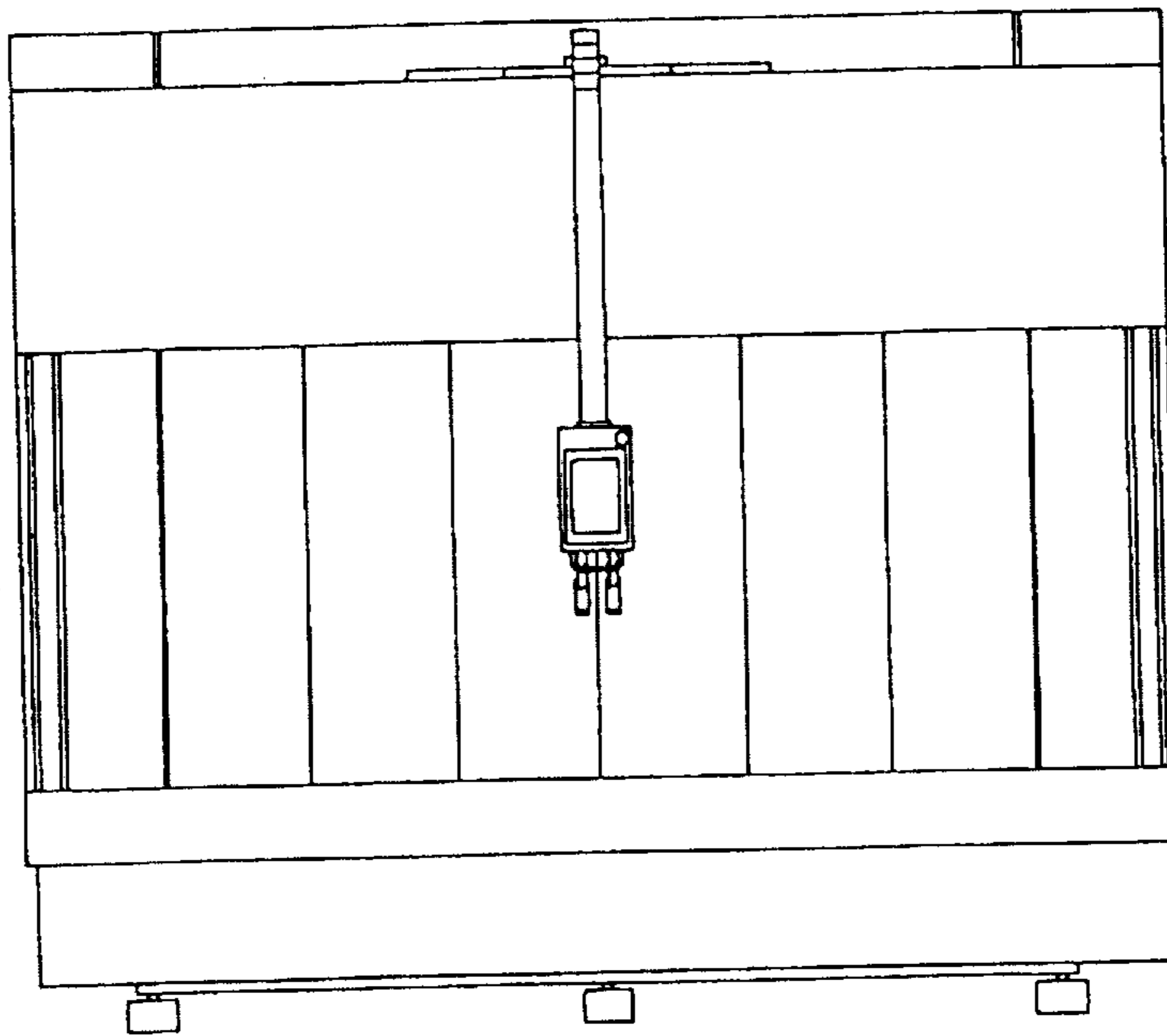


Fig. 73

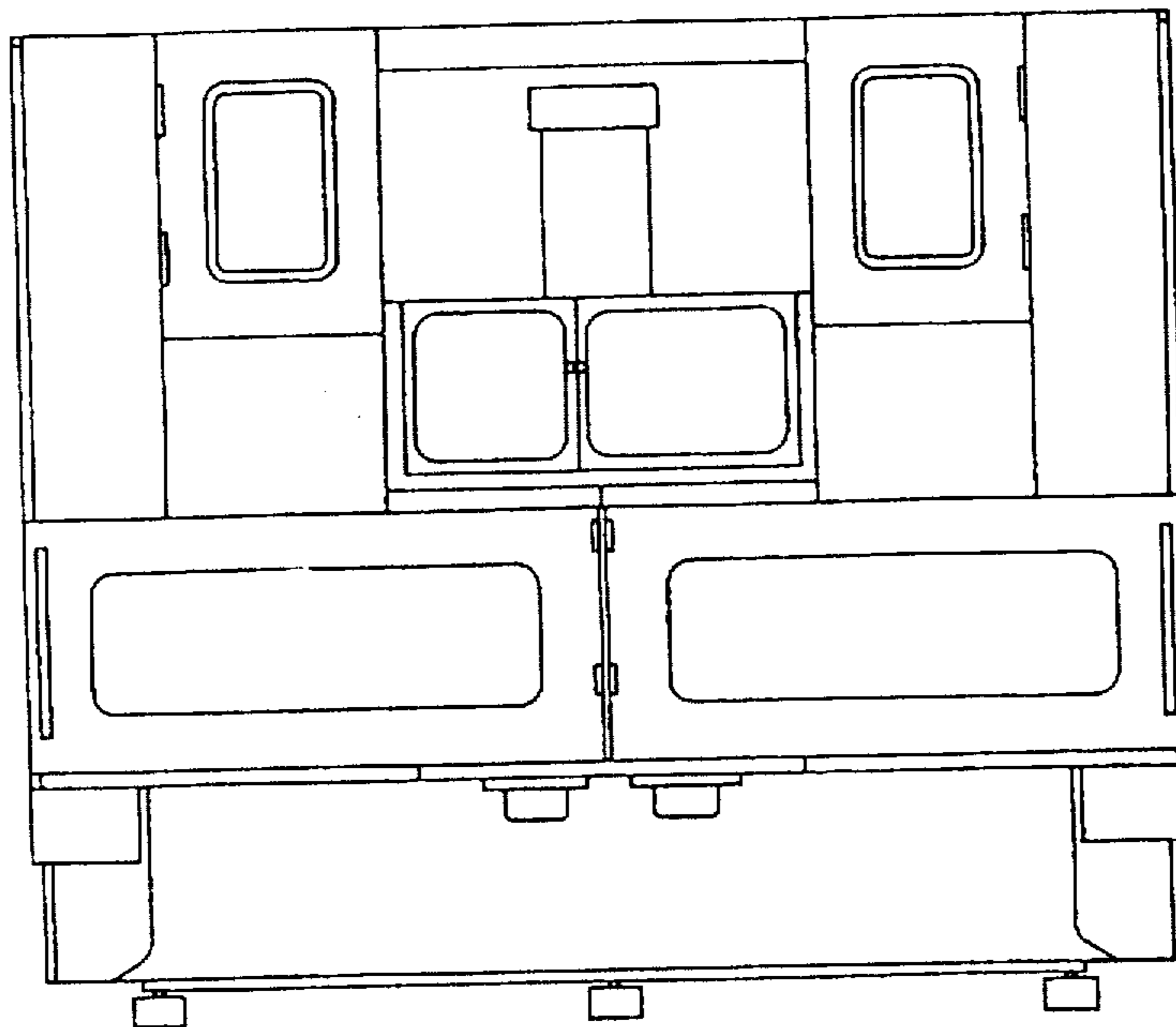


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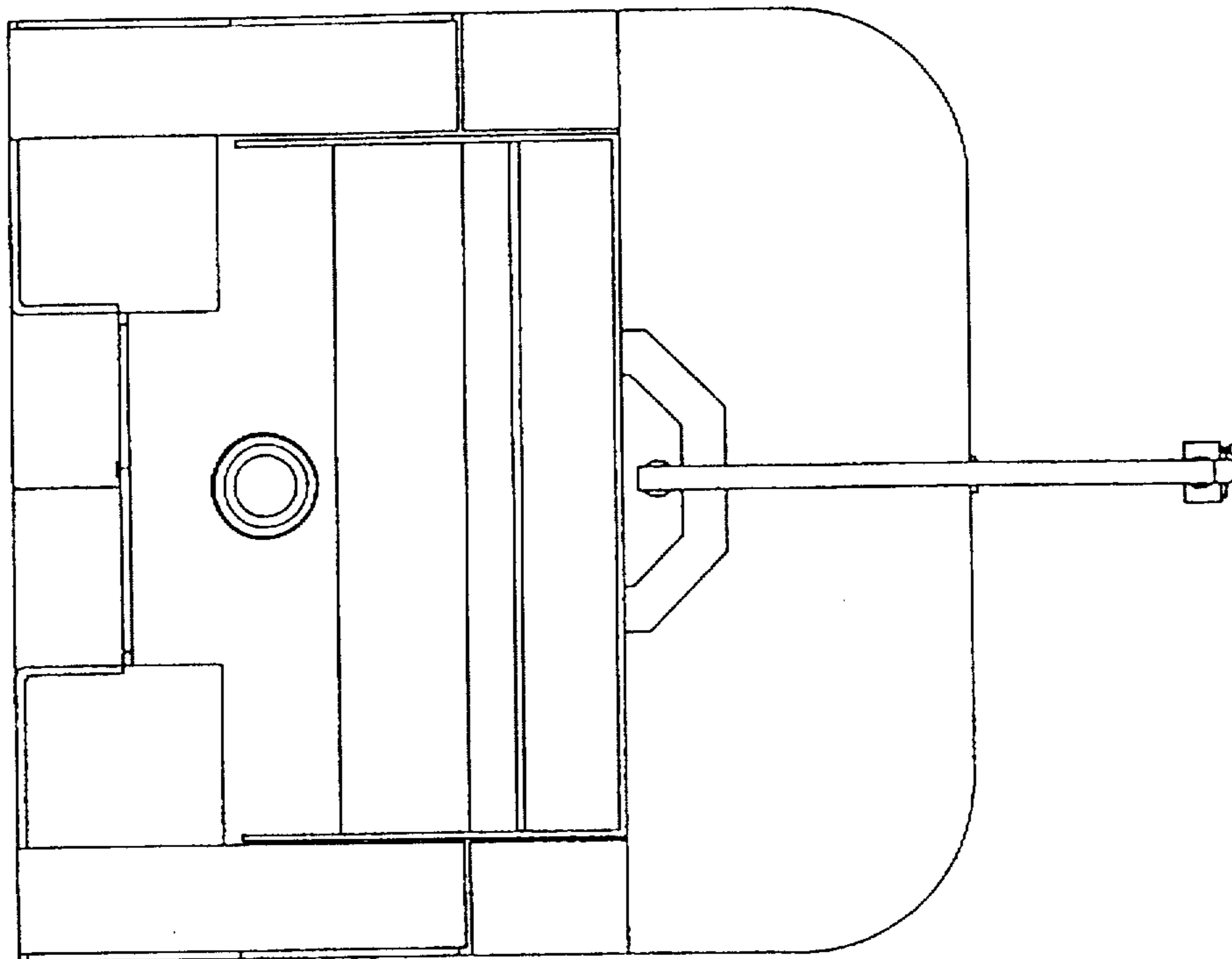


Fig. 75

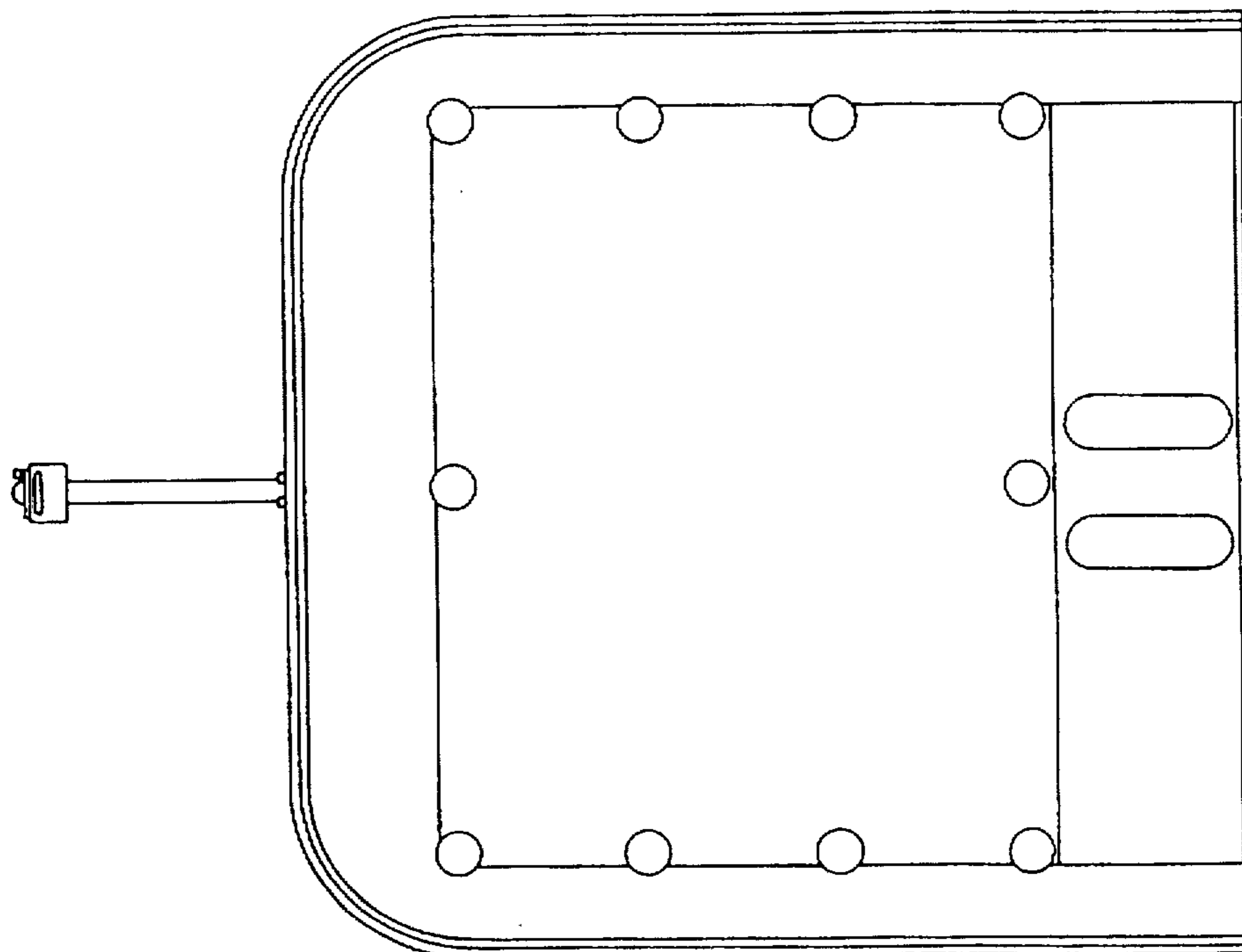


Fig. 76

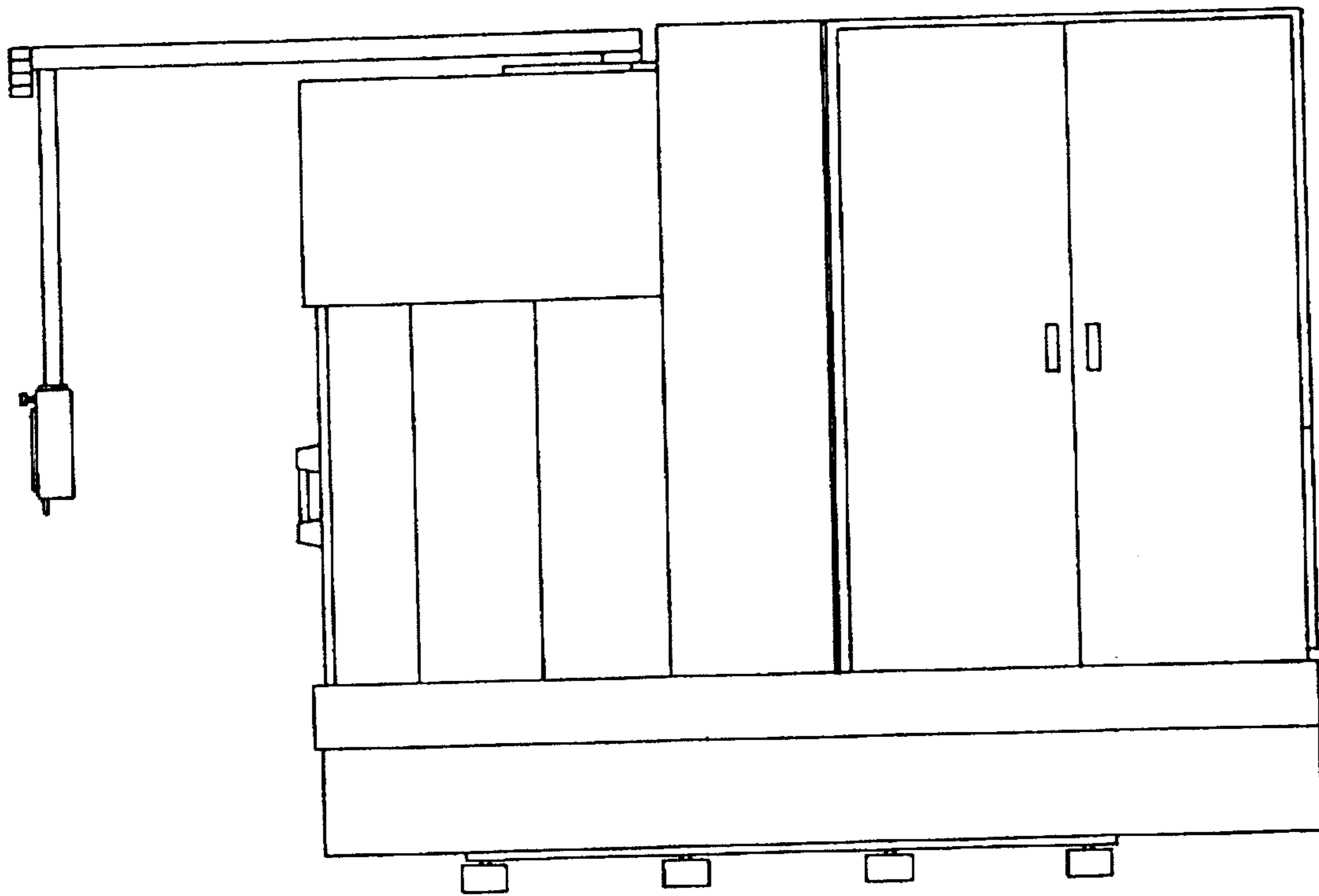


Fig. 77

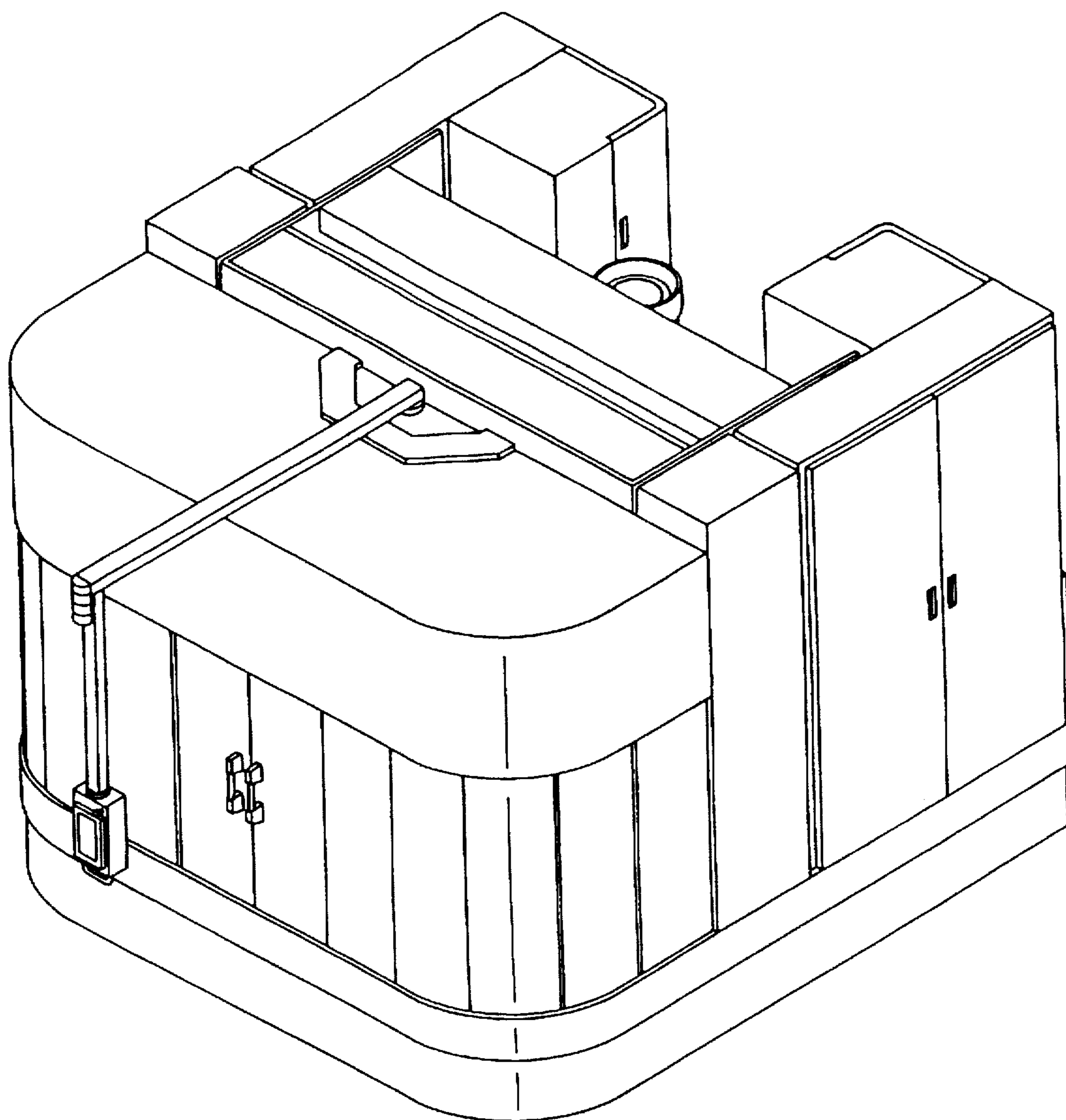


Fig. 78

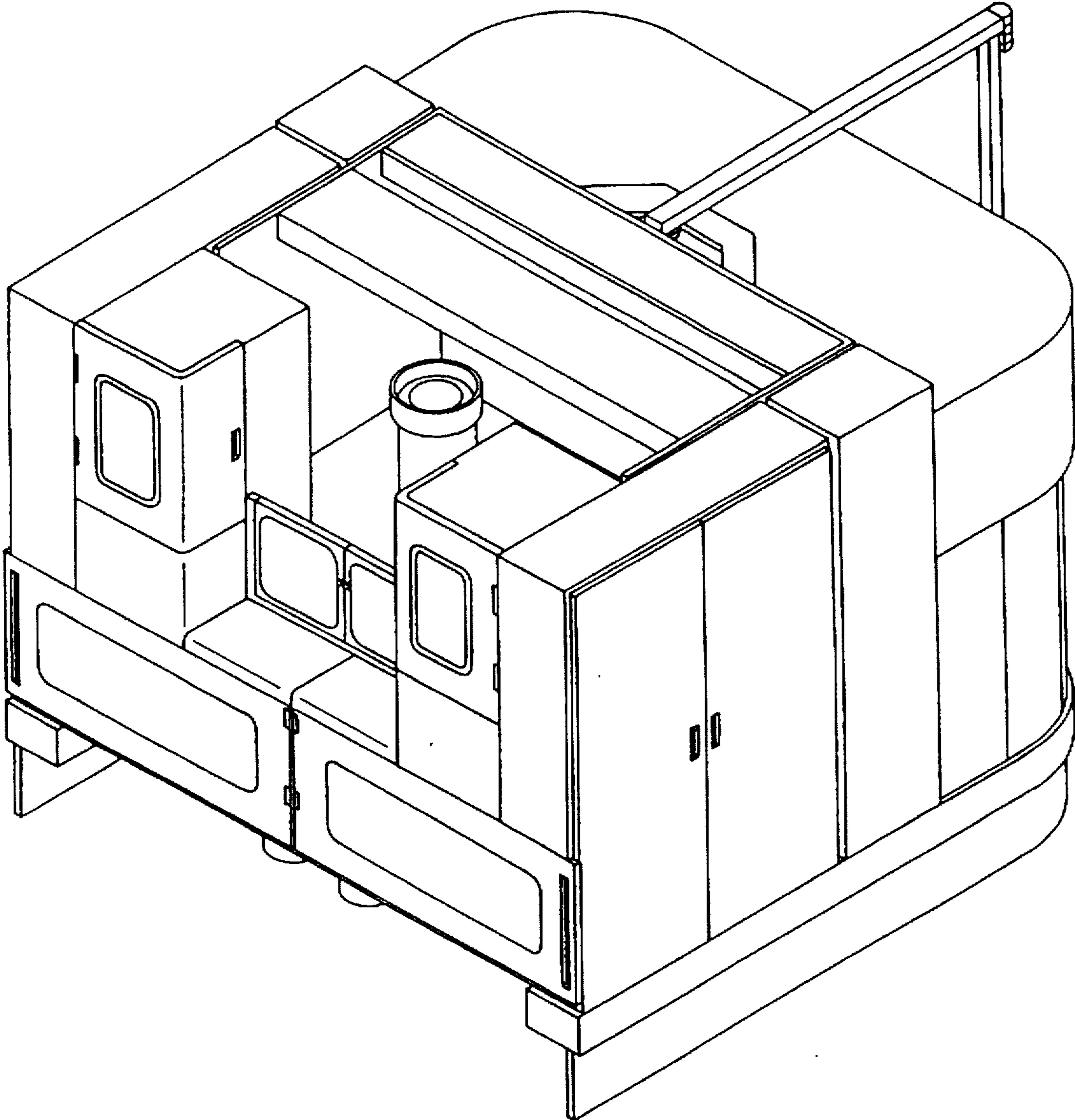


Fig. 79

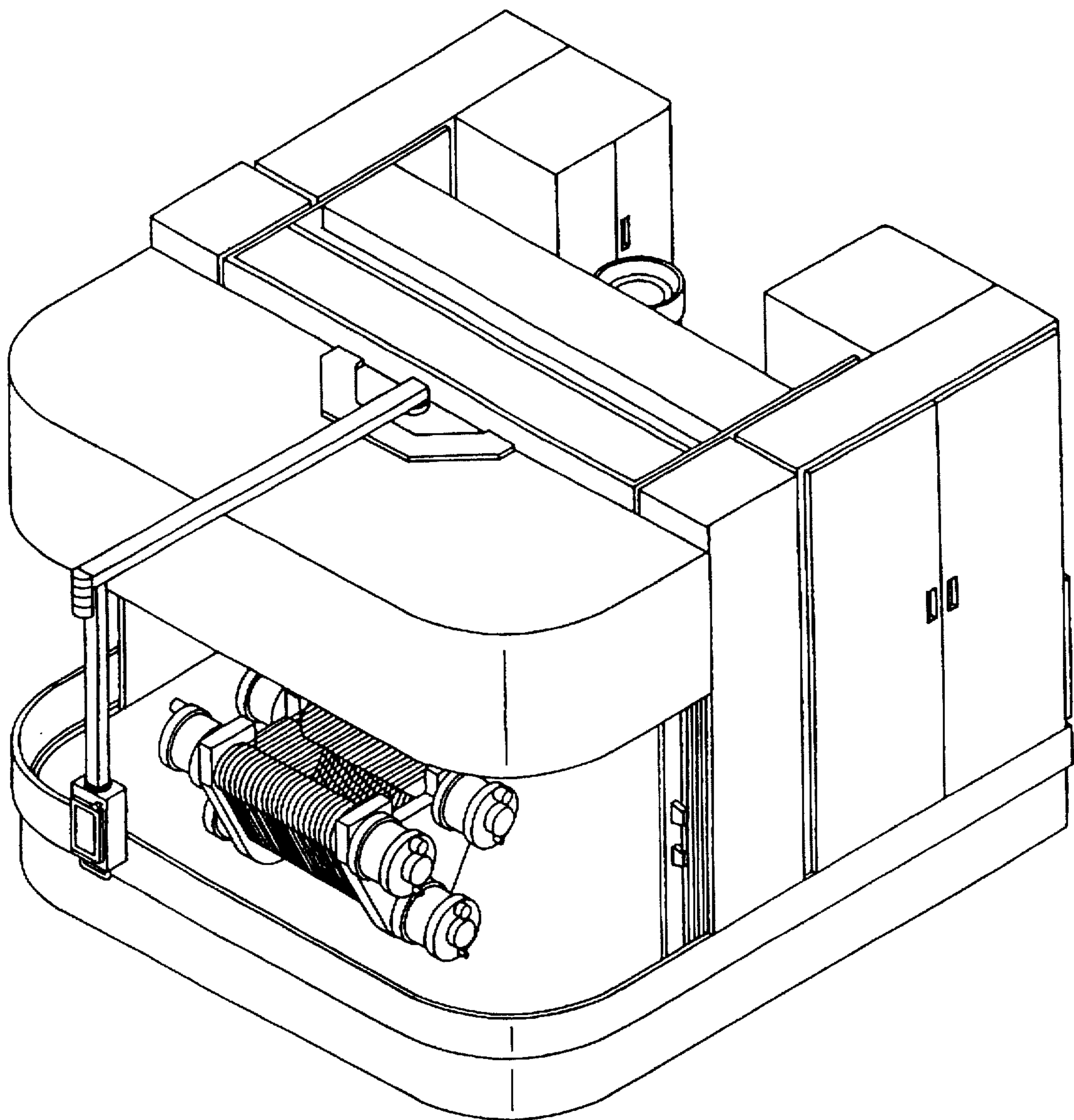


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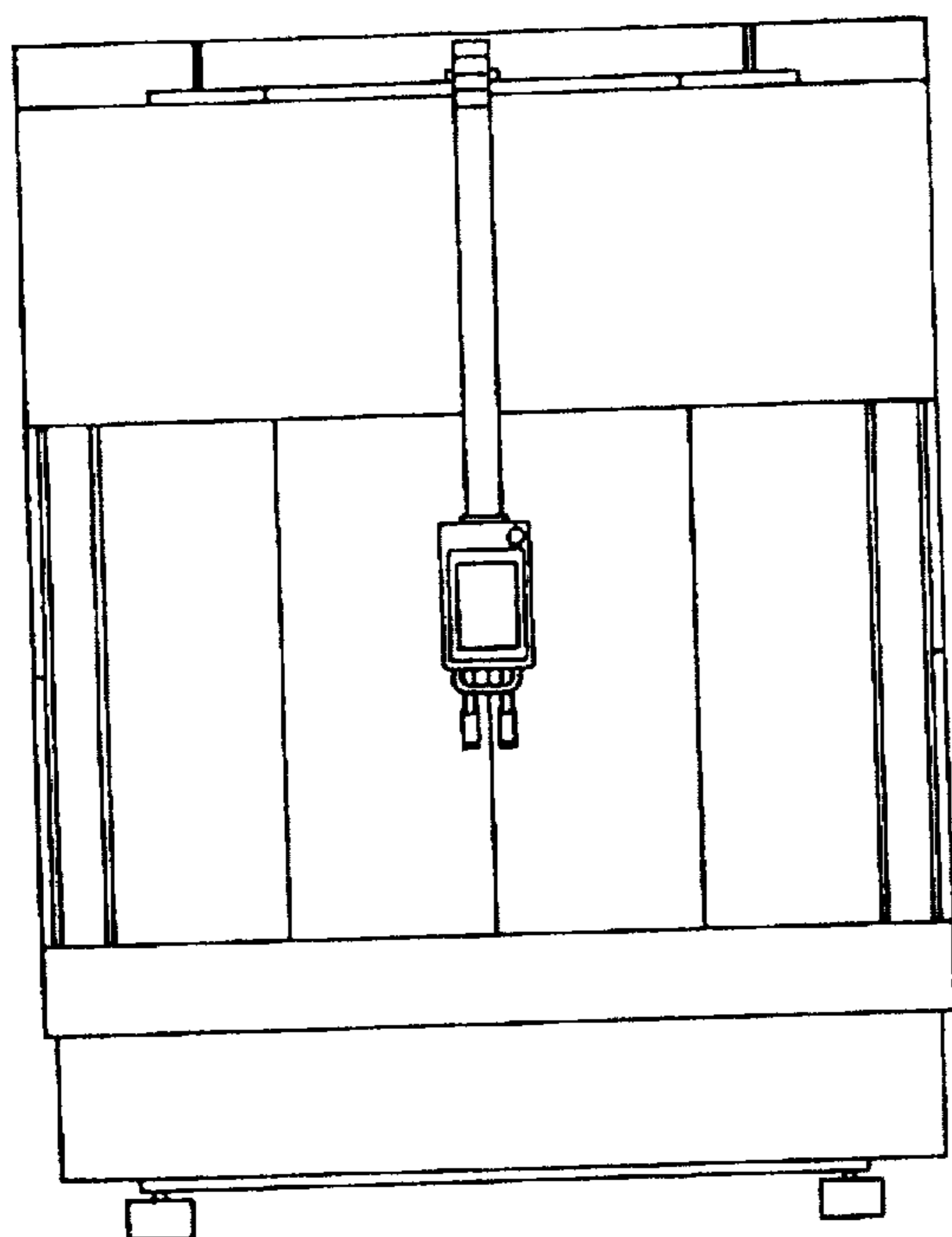


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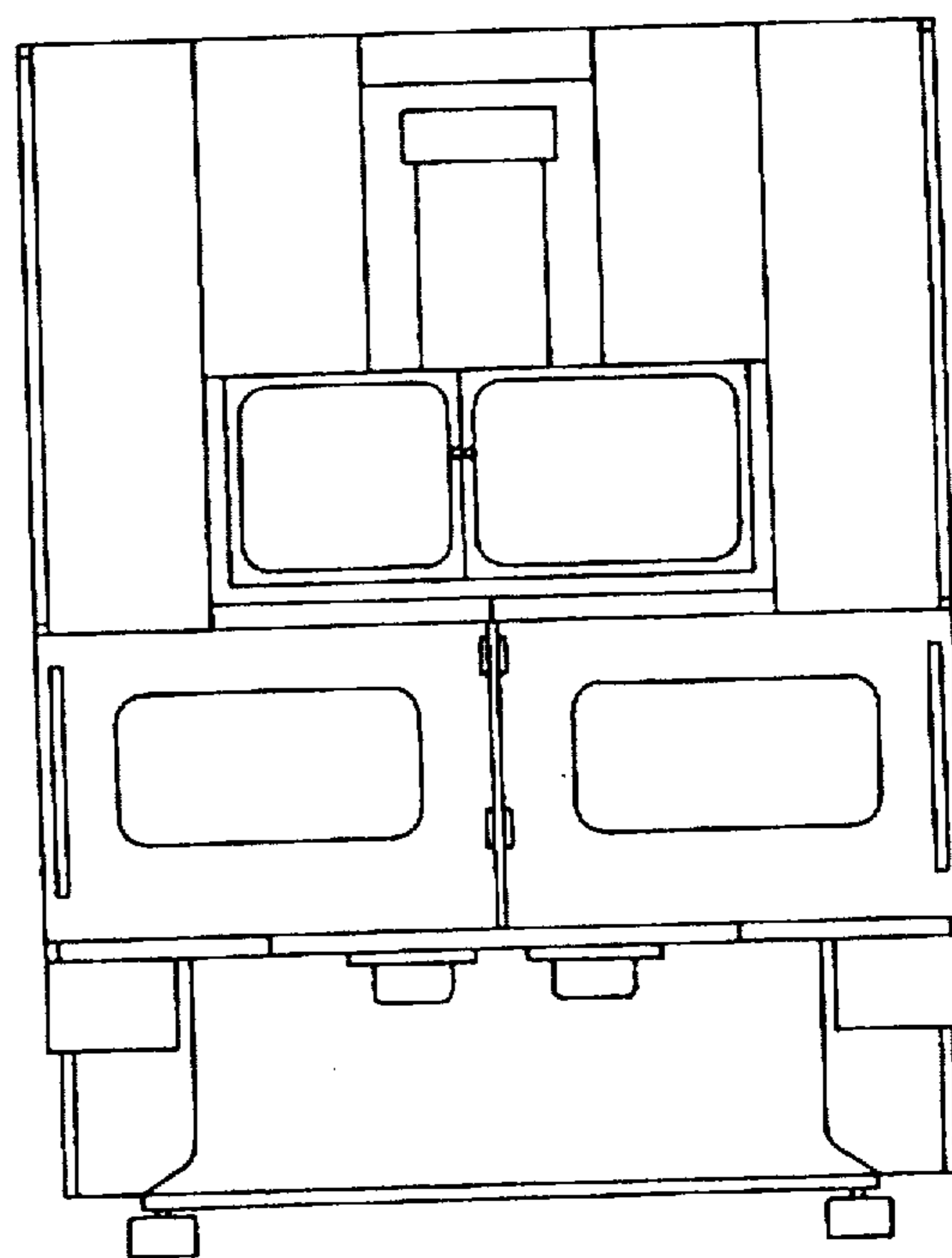


Fig. 82

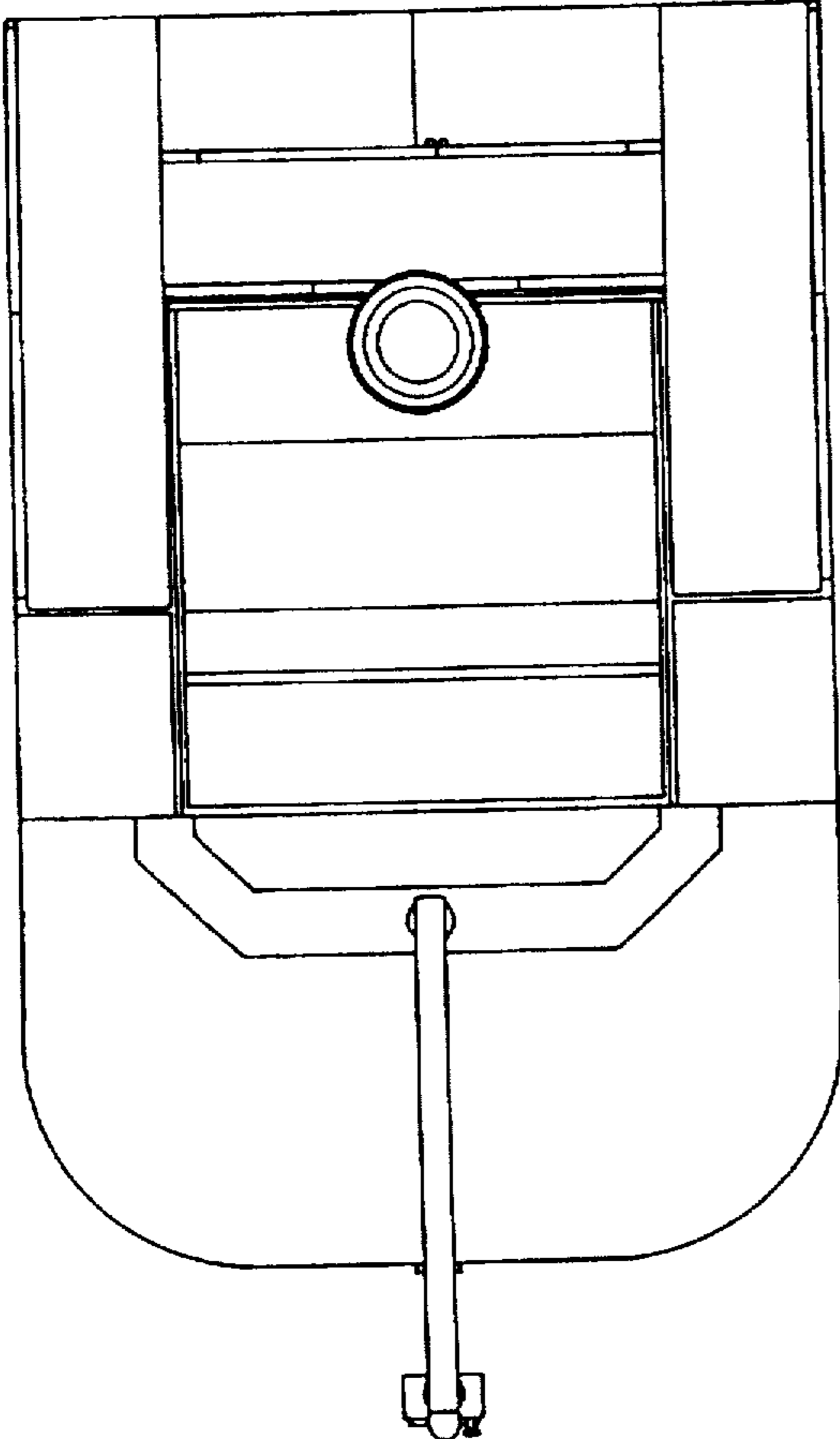


Fig. 83

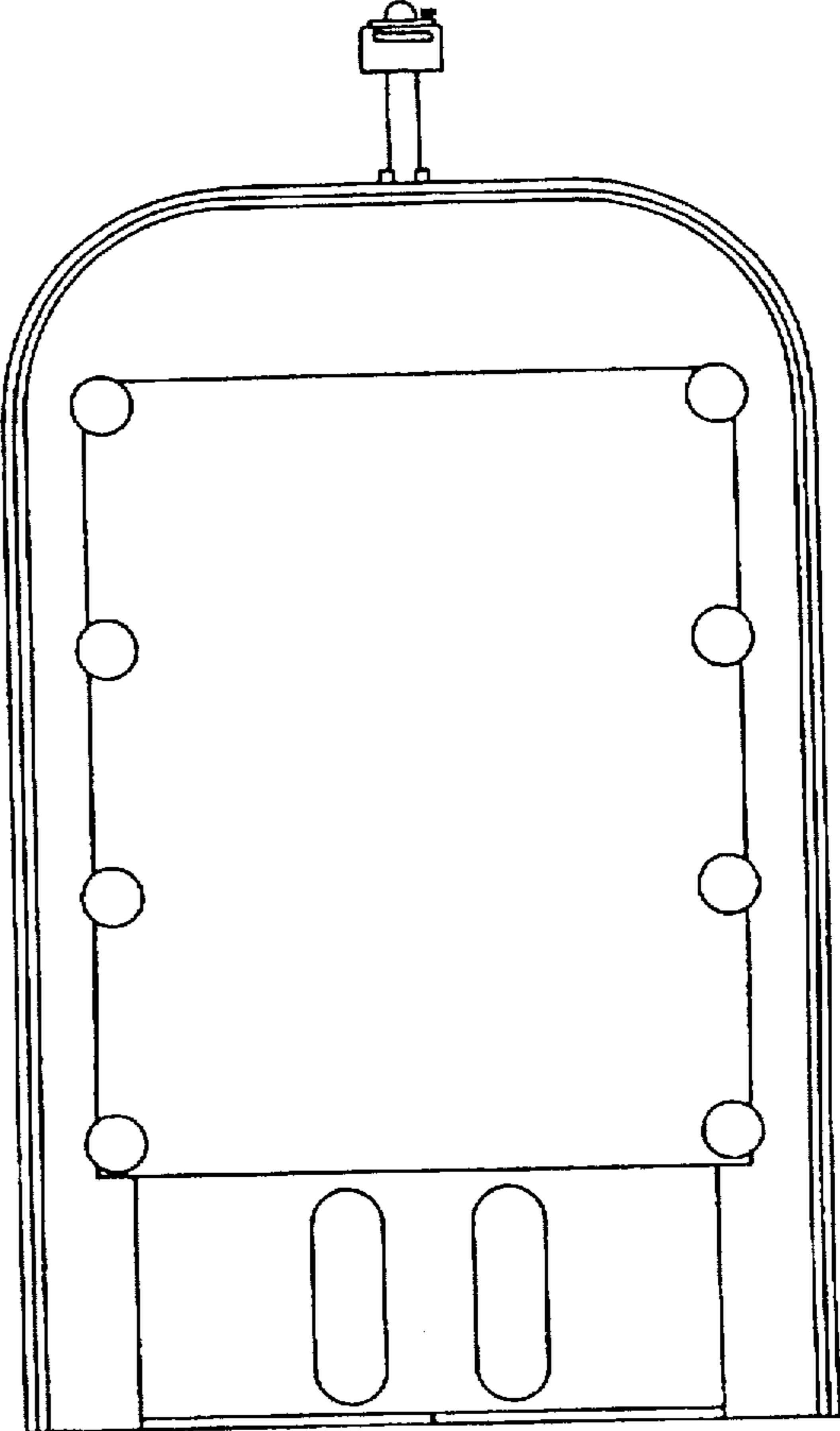


Fig. 84

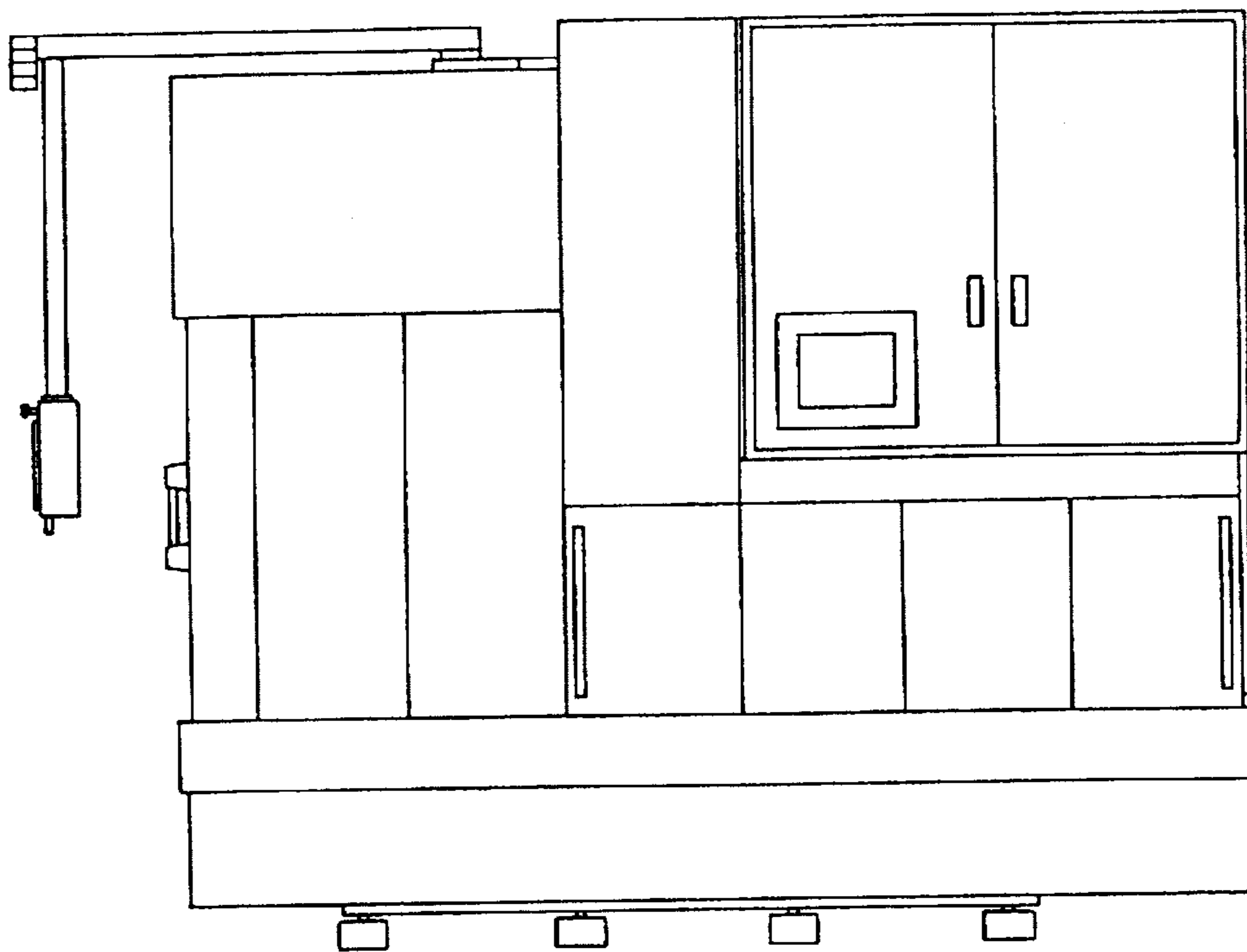


Fig. 85

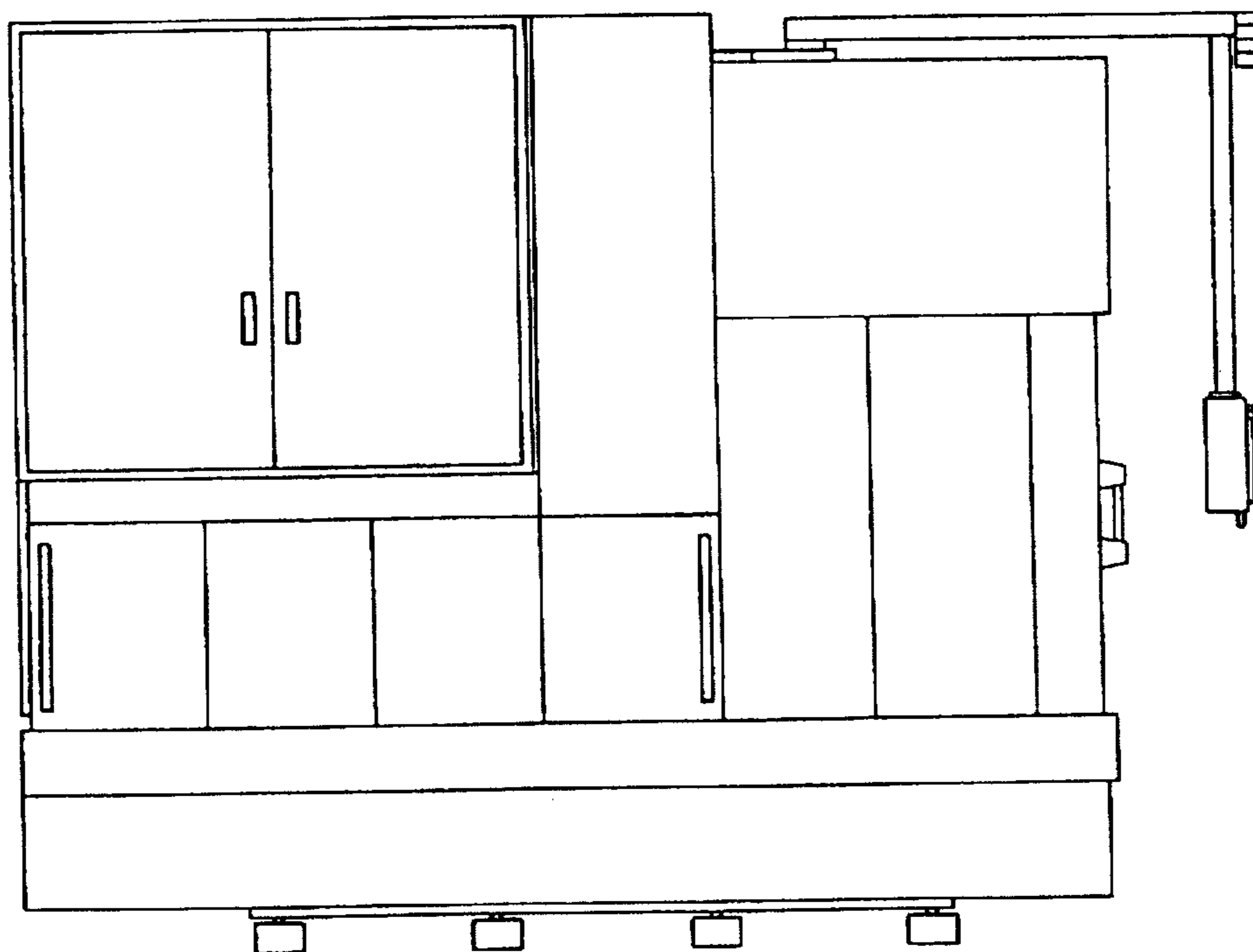


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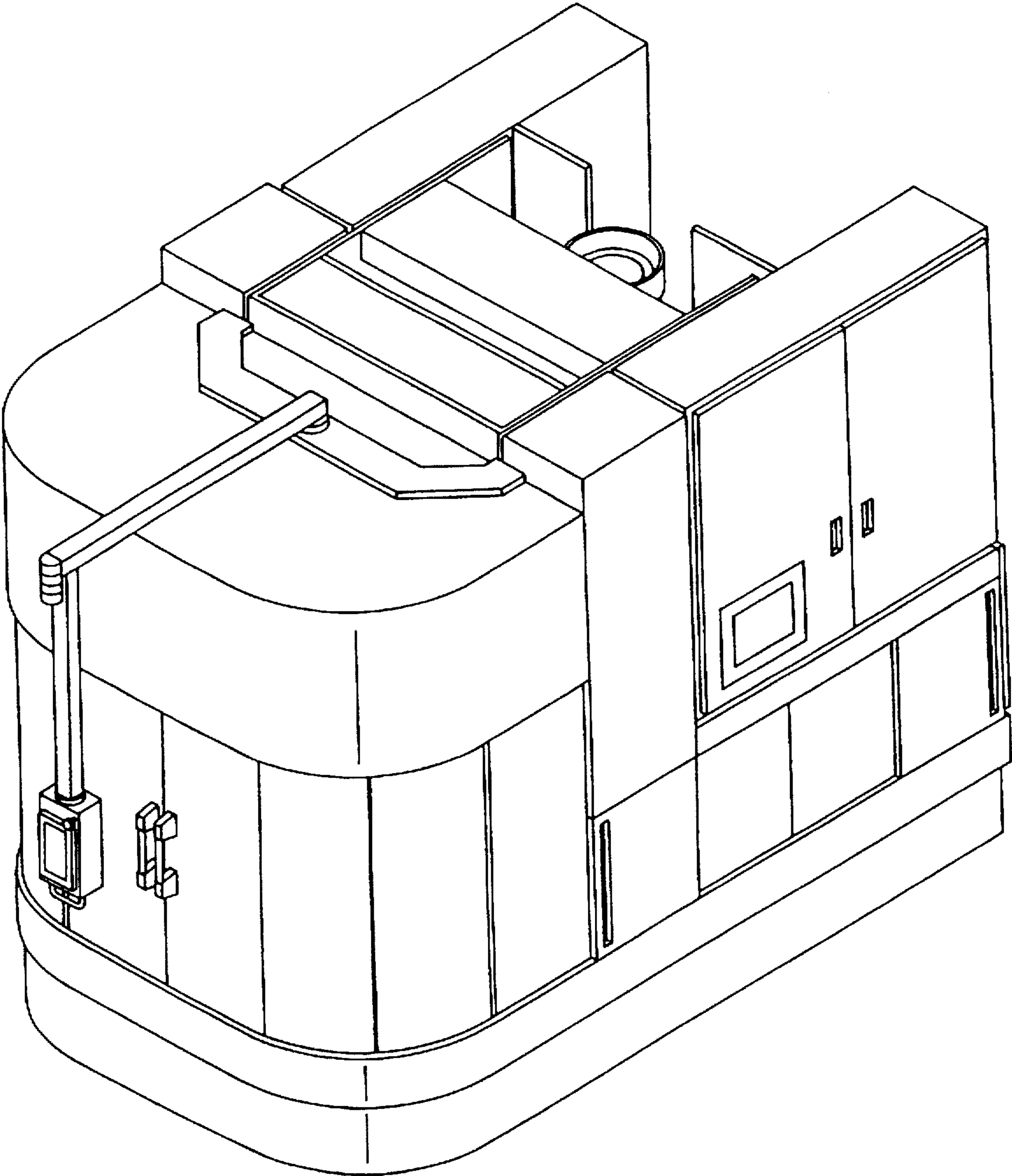


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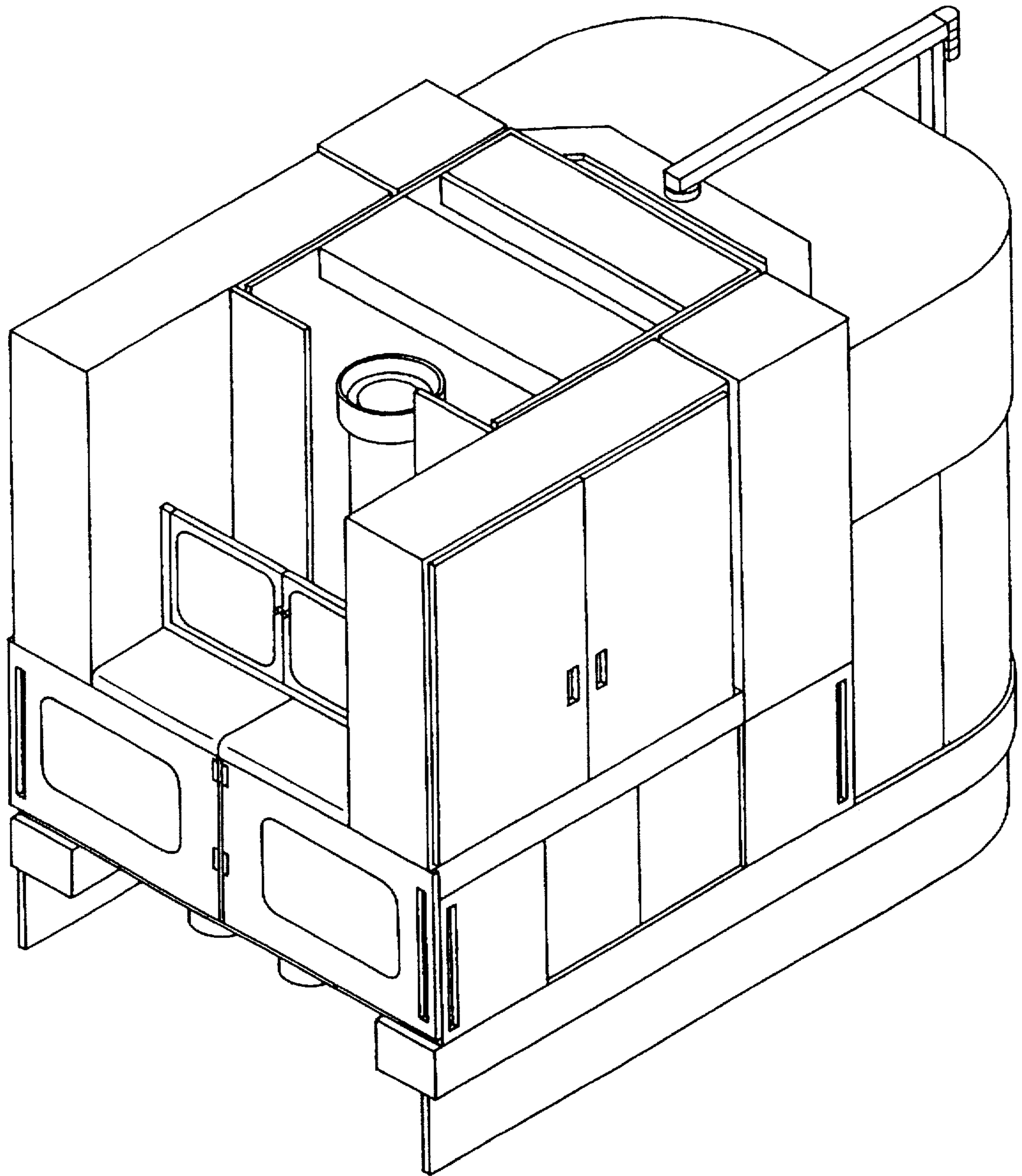


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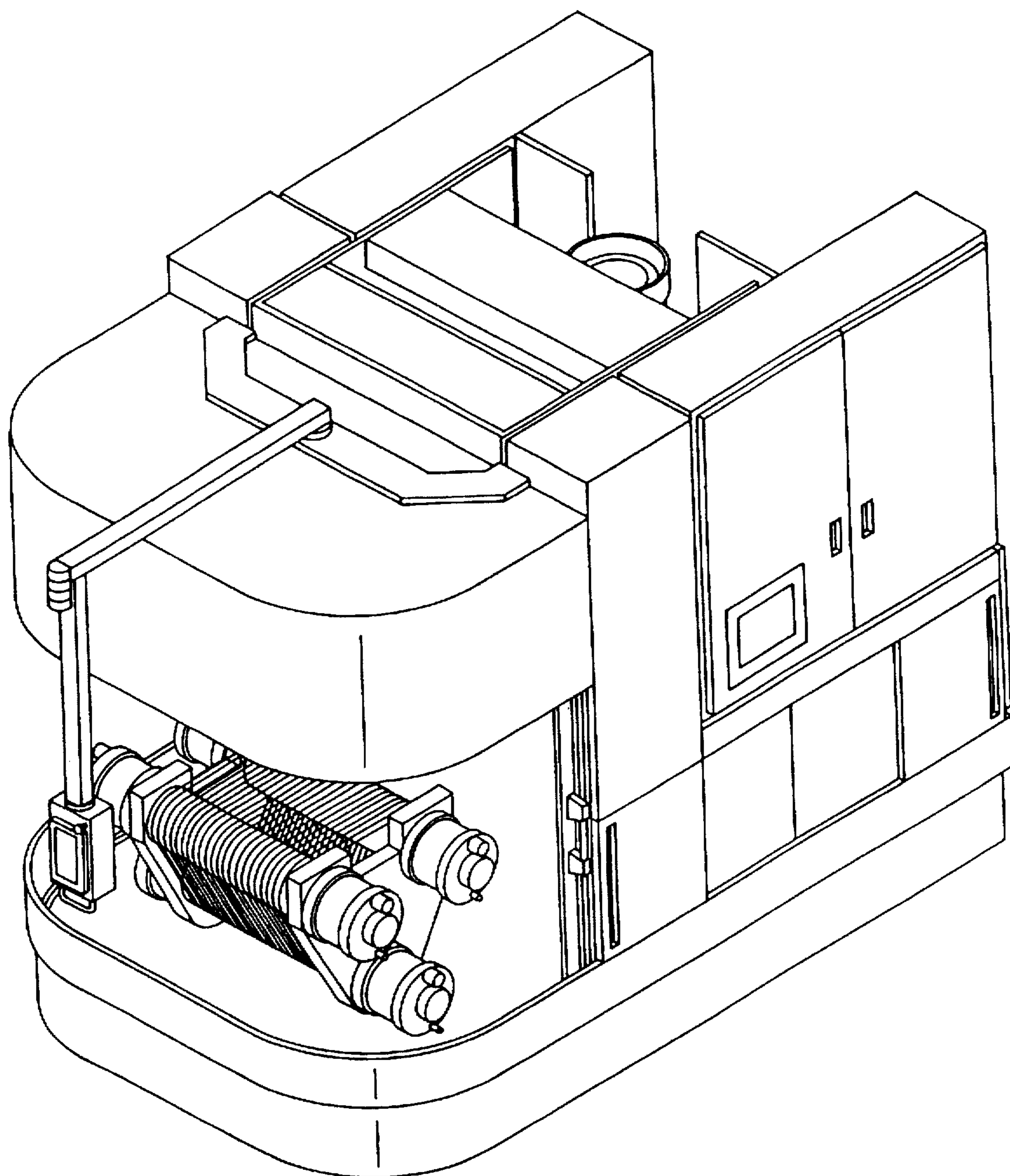


Fig. 89

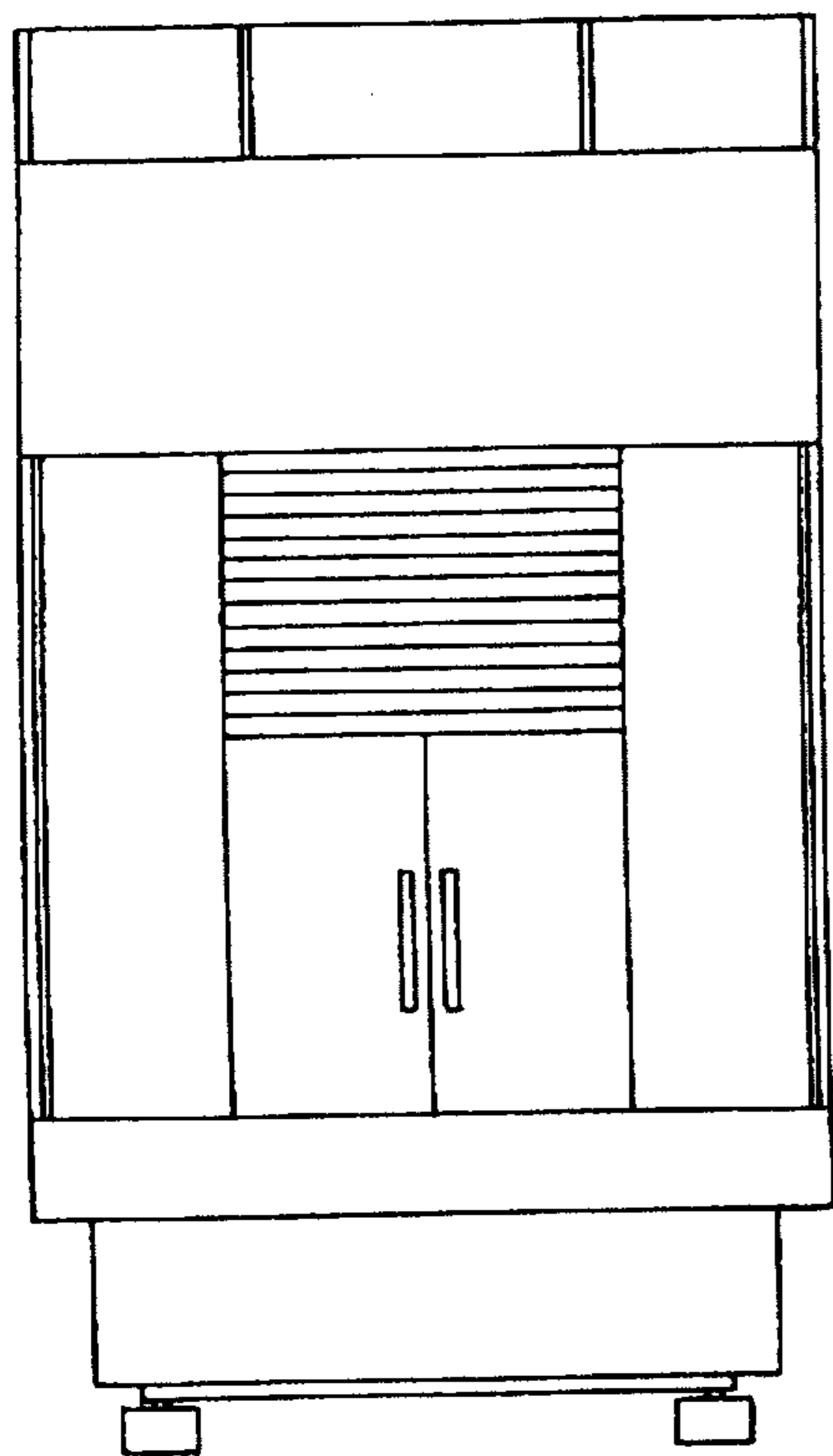


Fig. 90

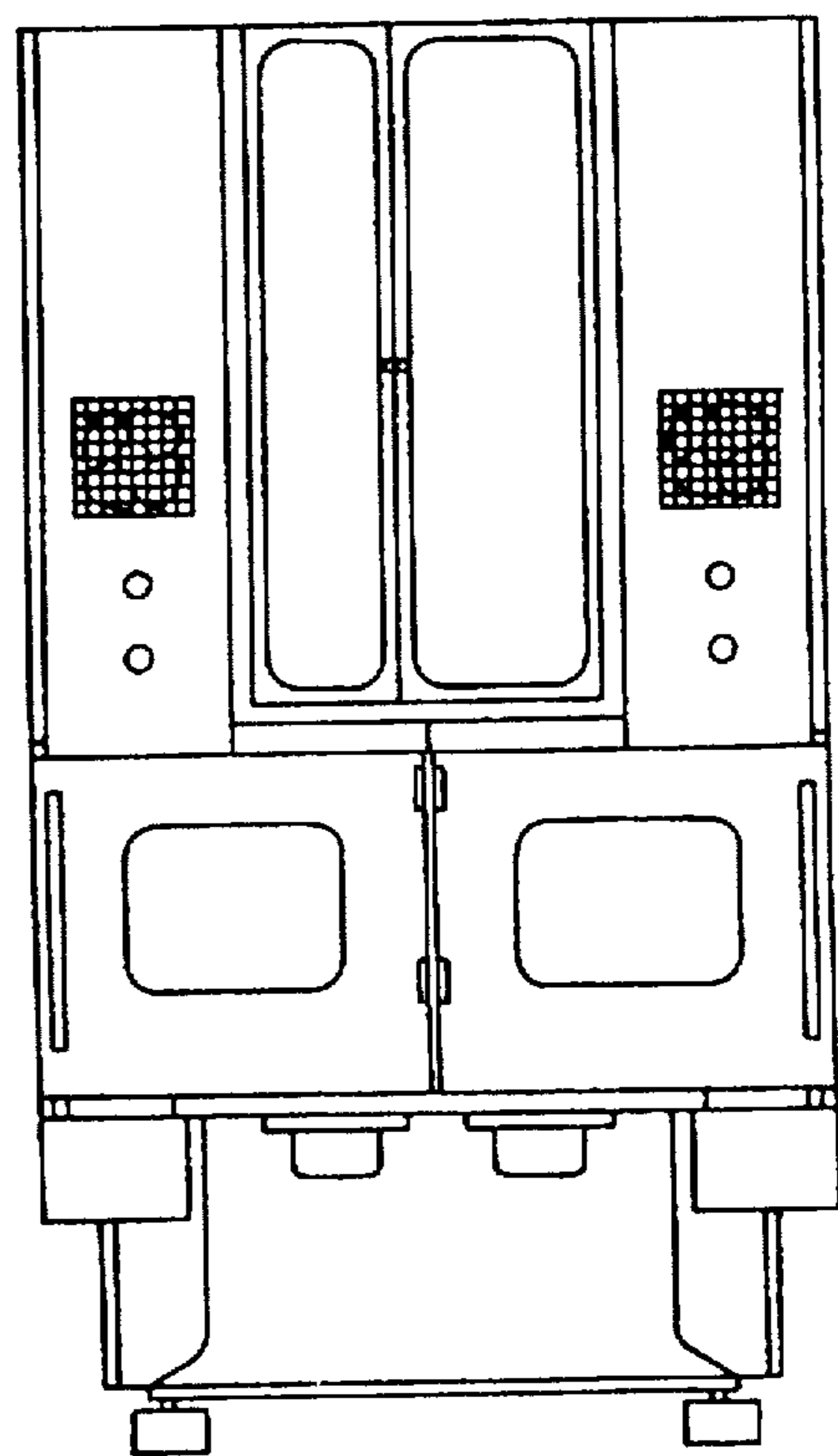


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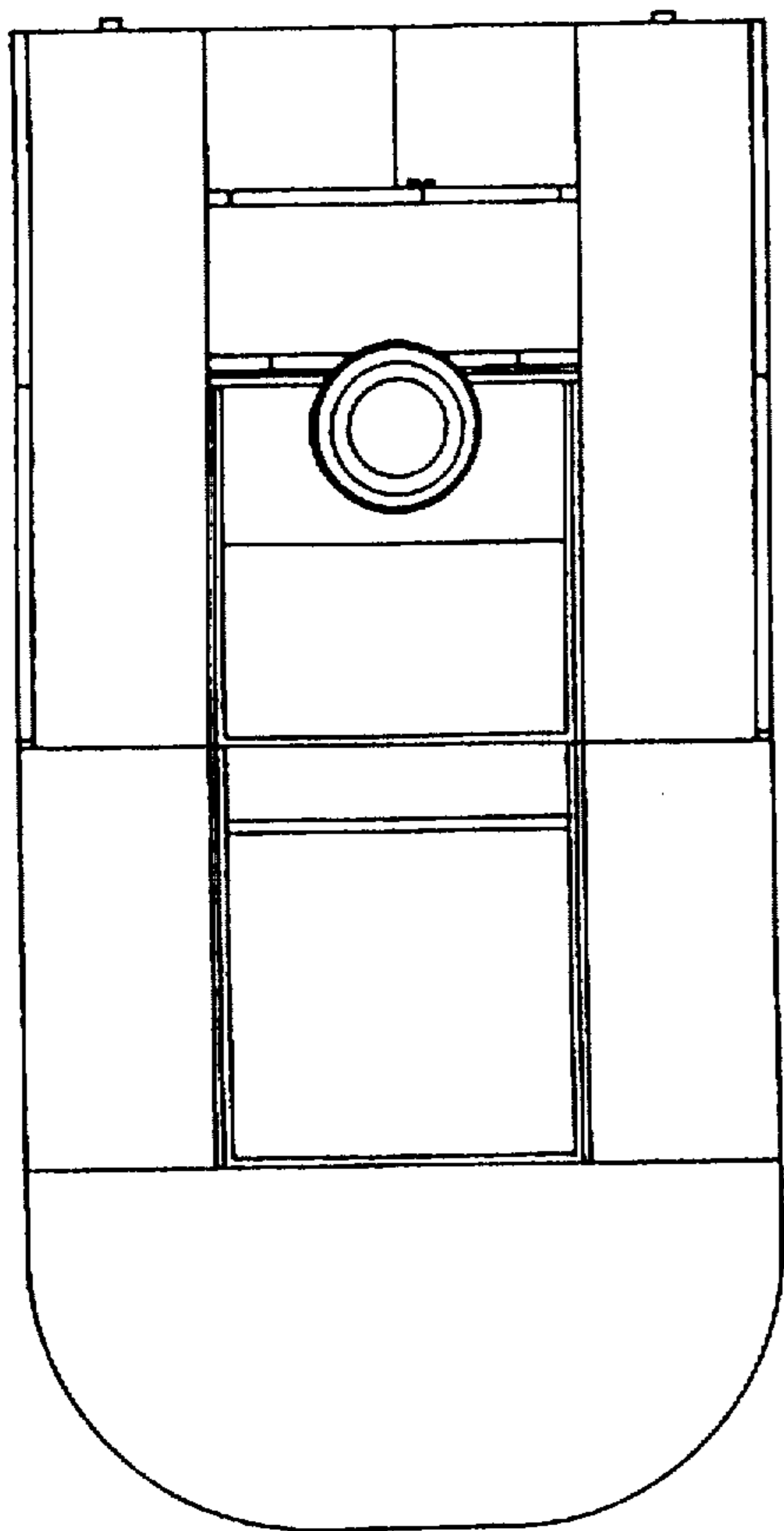


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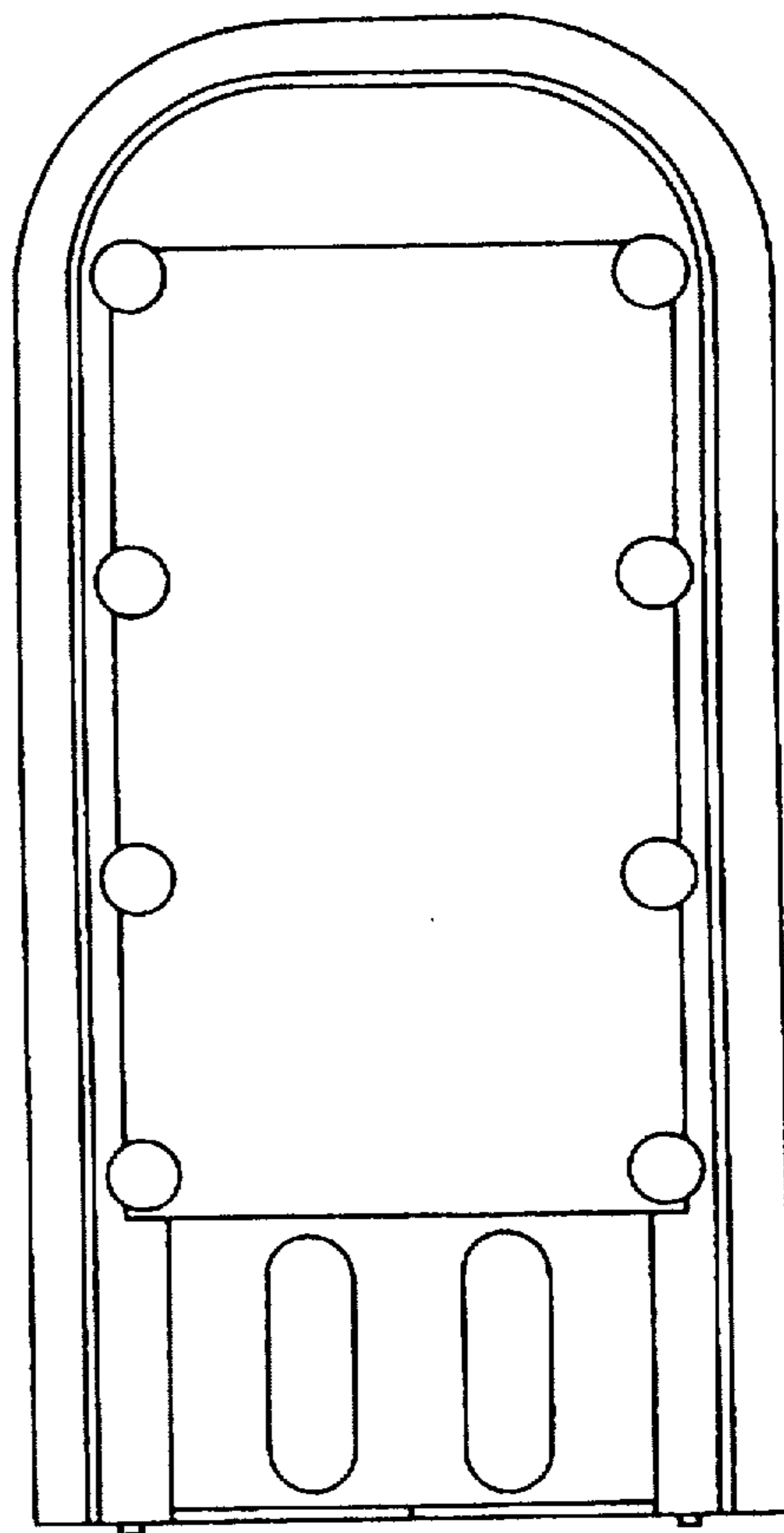


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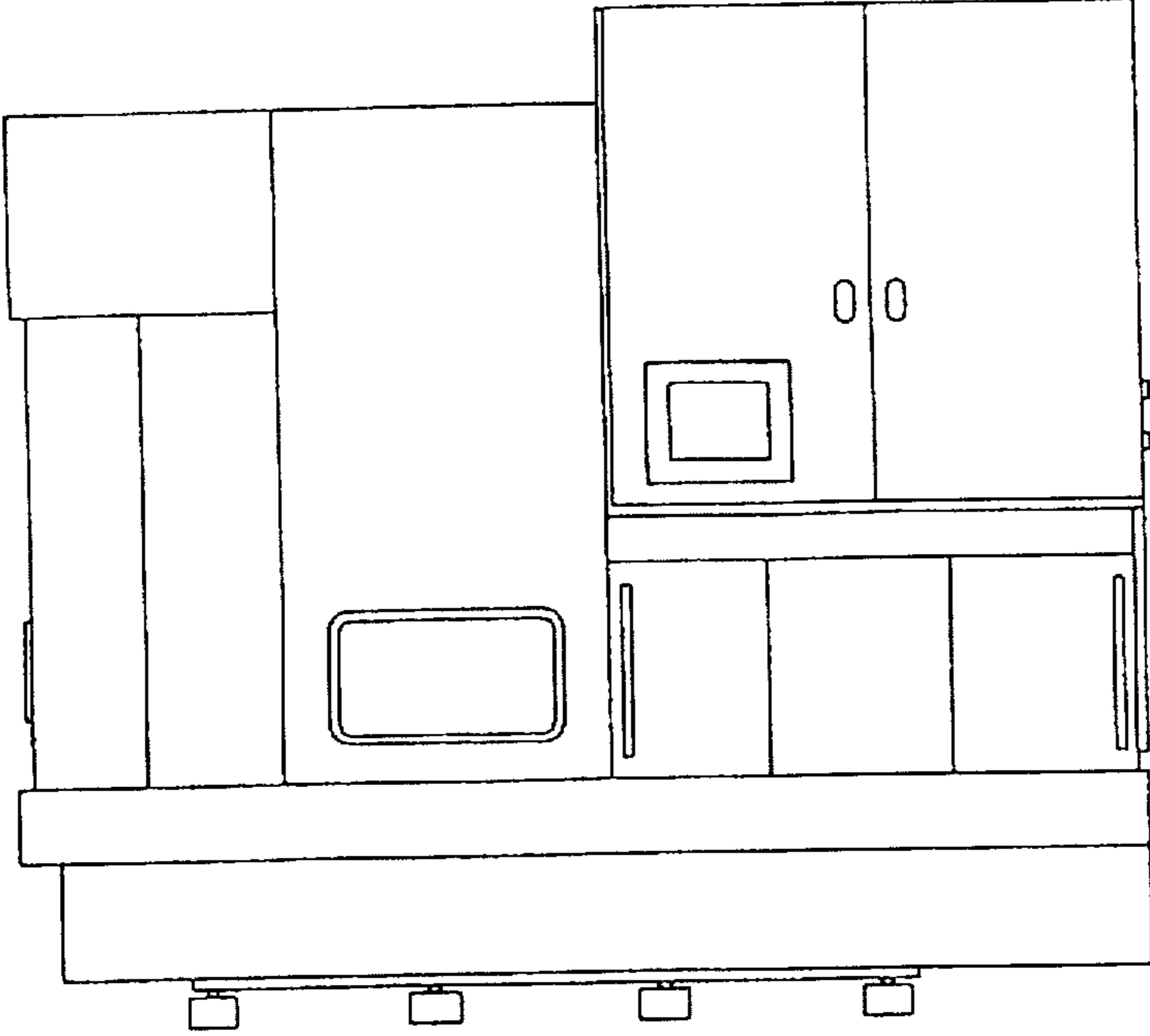


Fig. 94

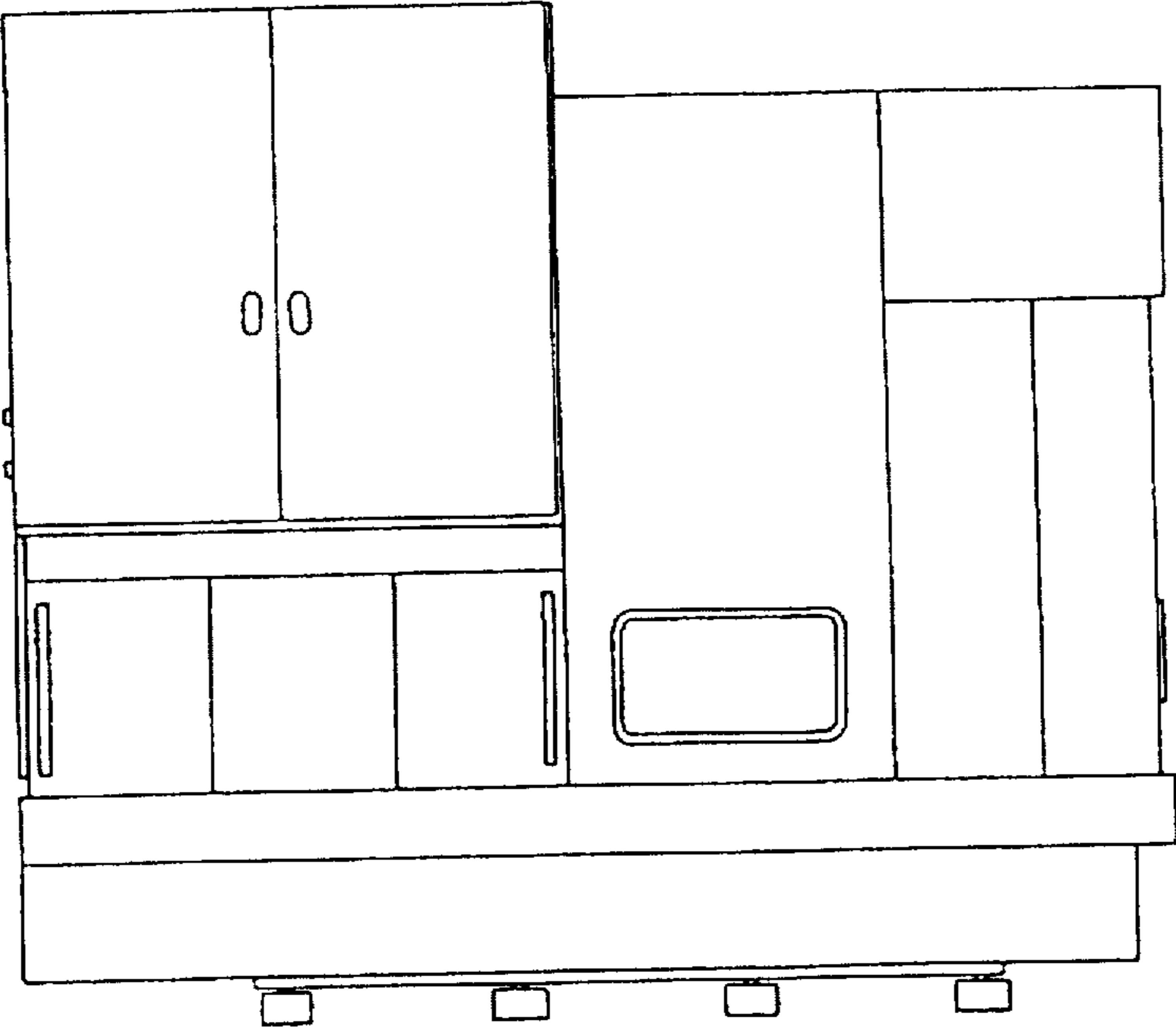


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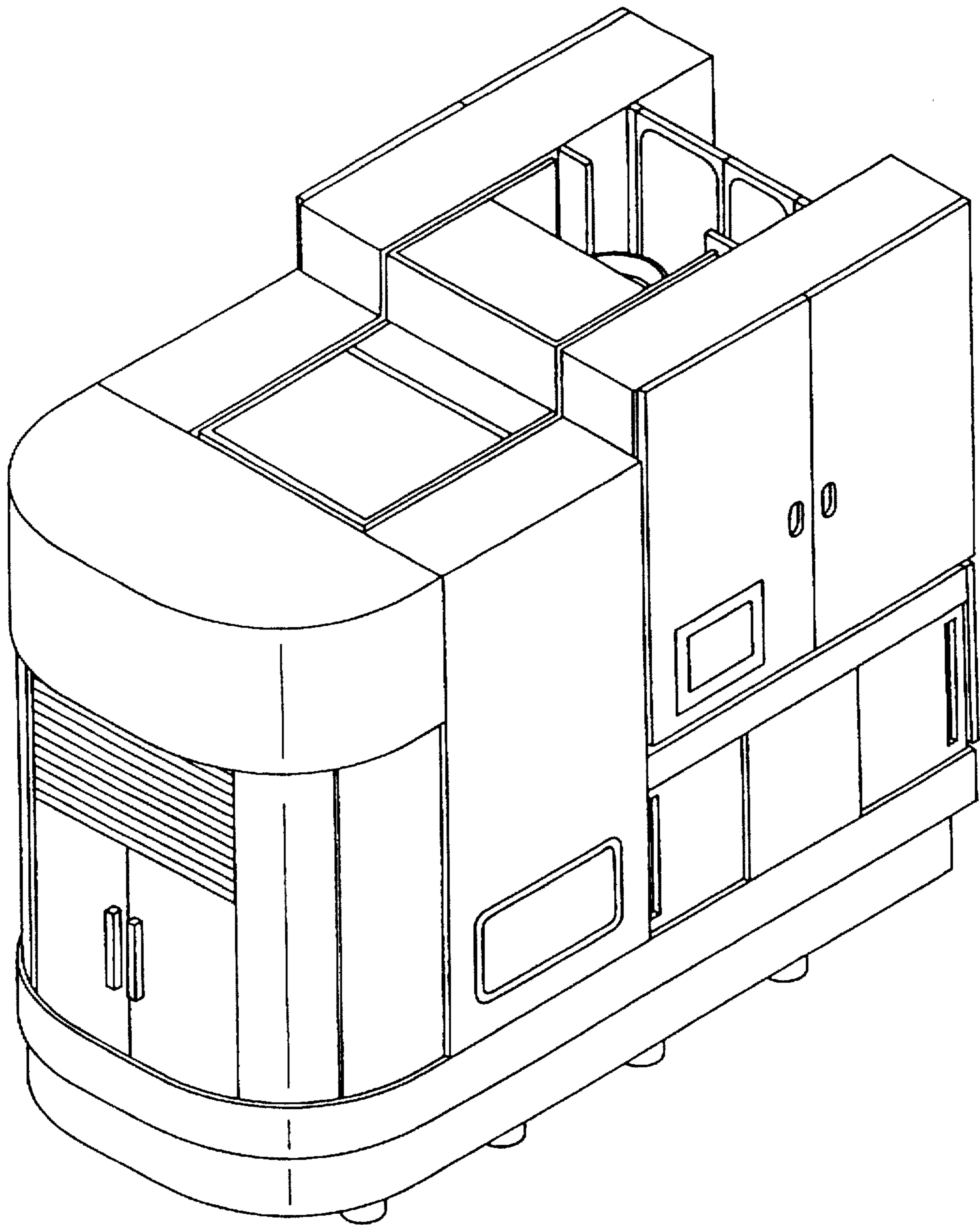


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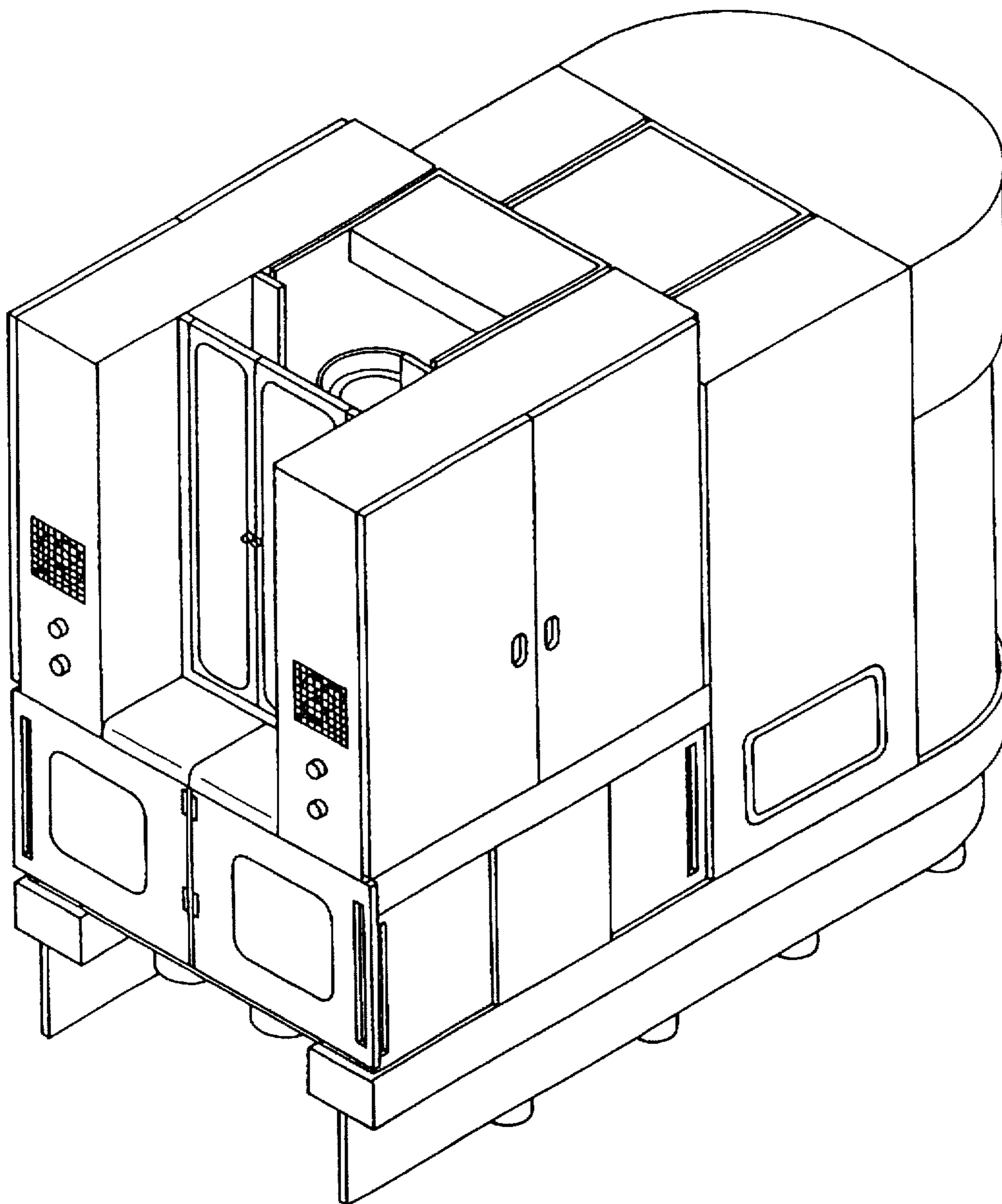


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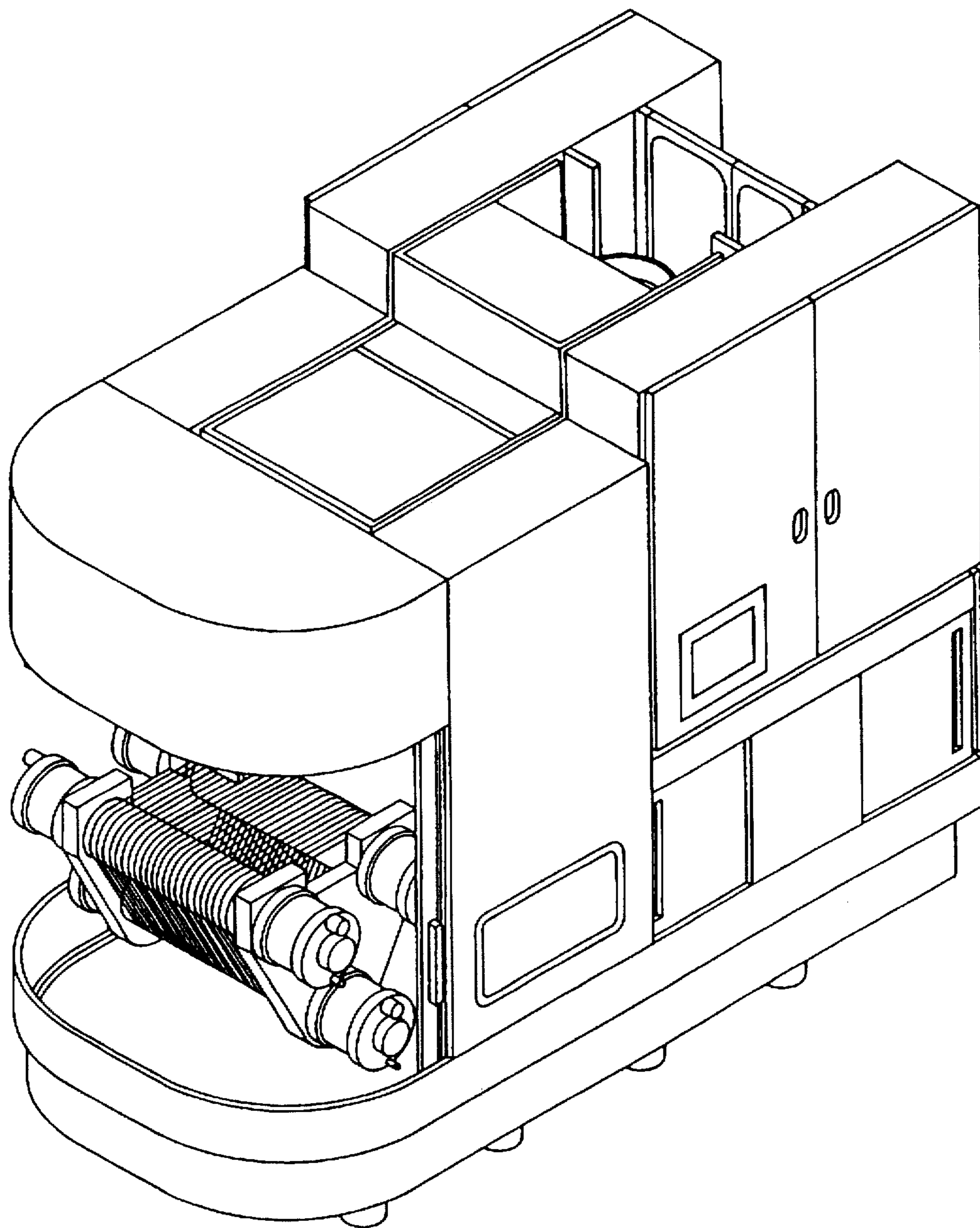


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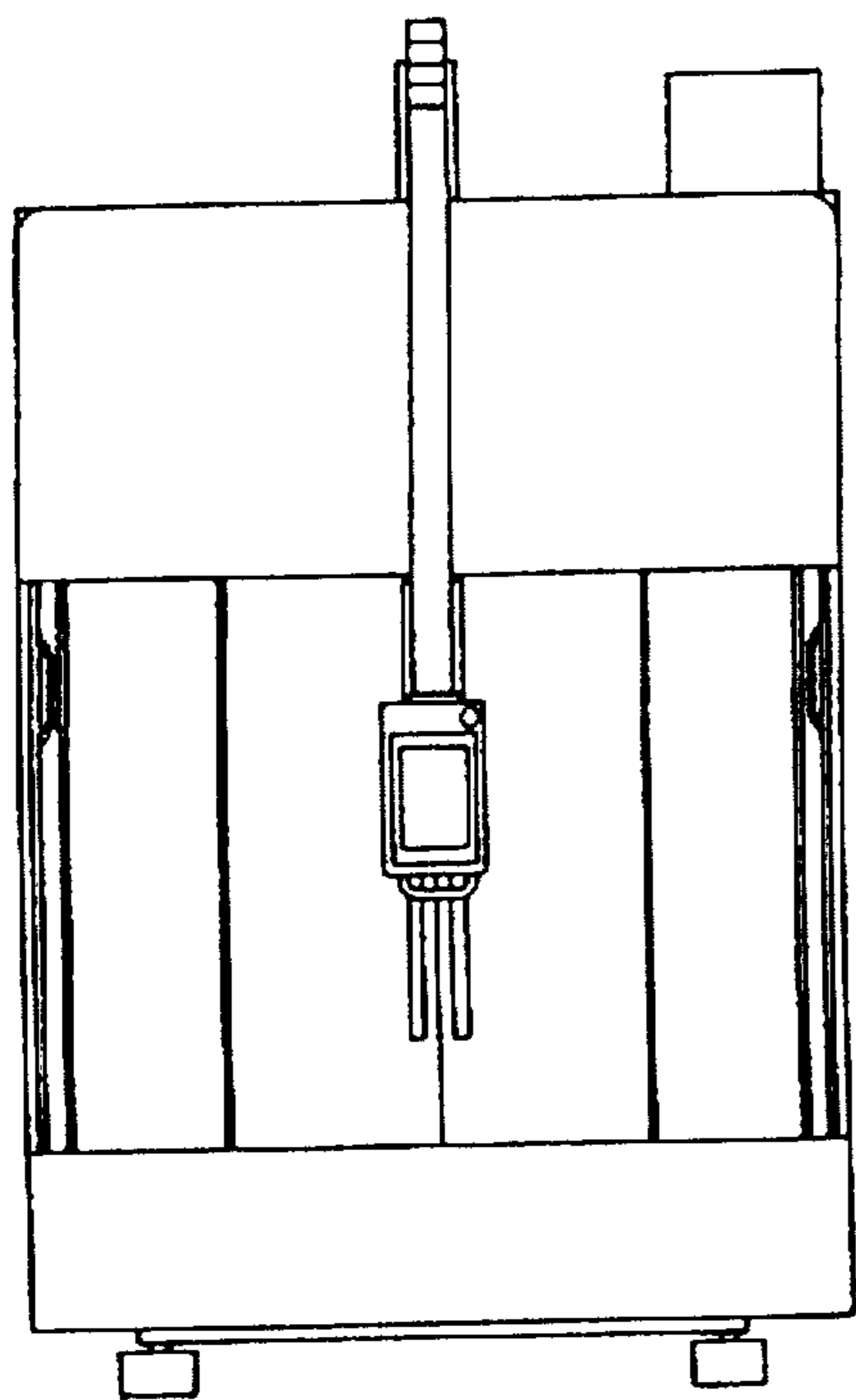


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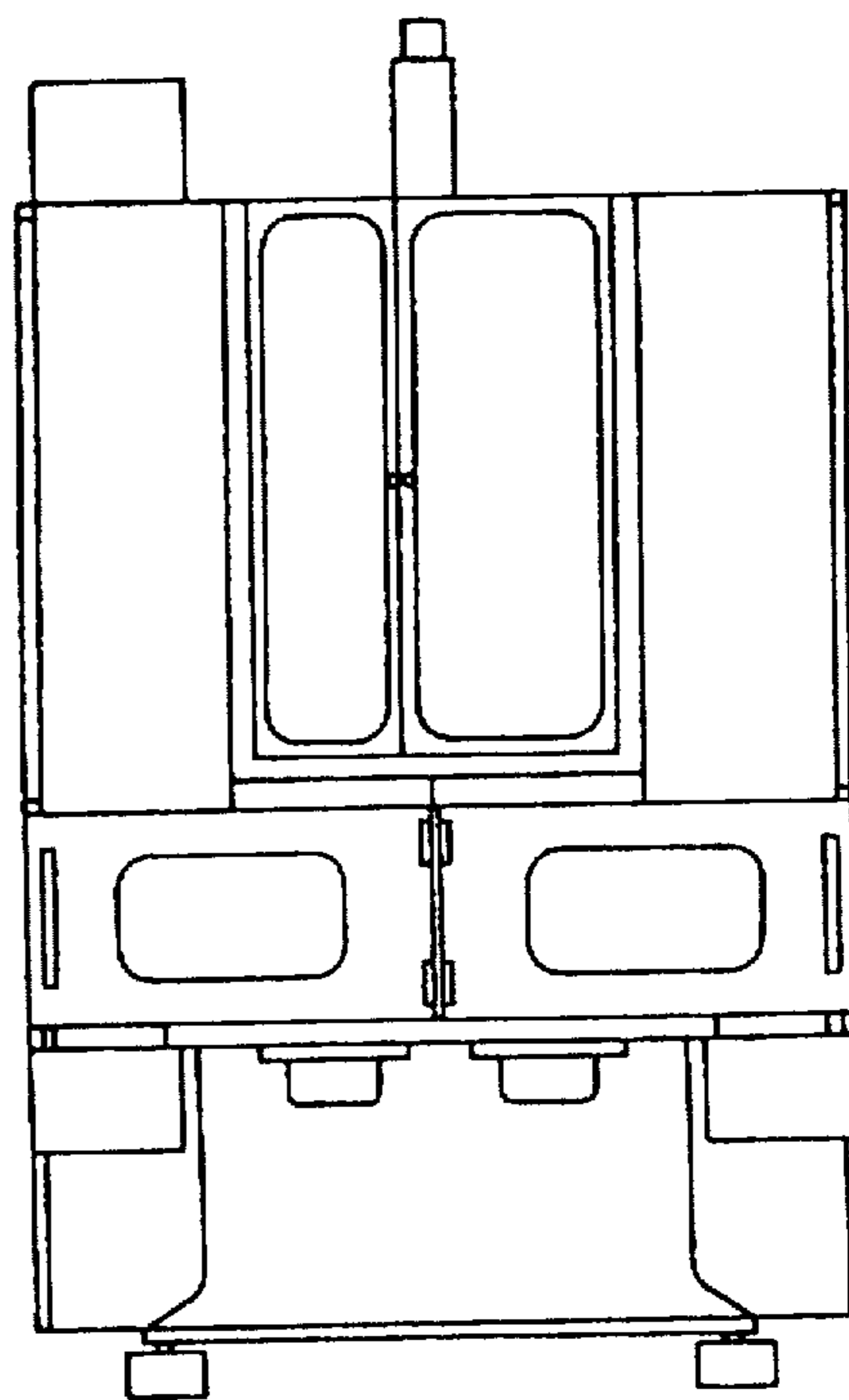


Fig. 100

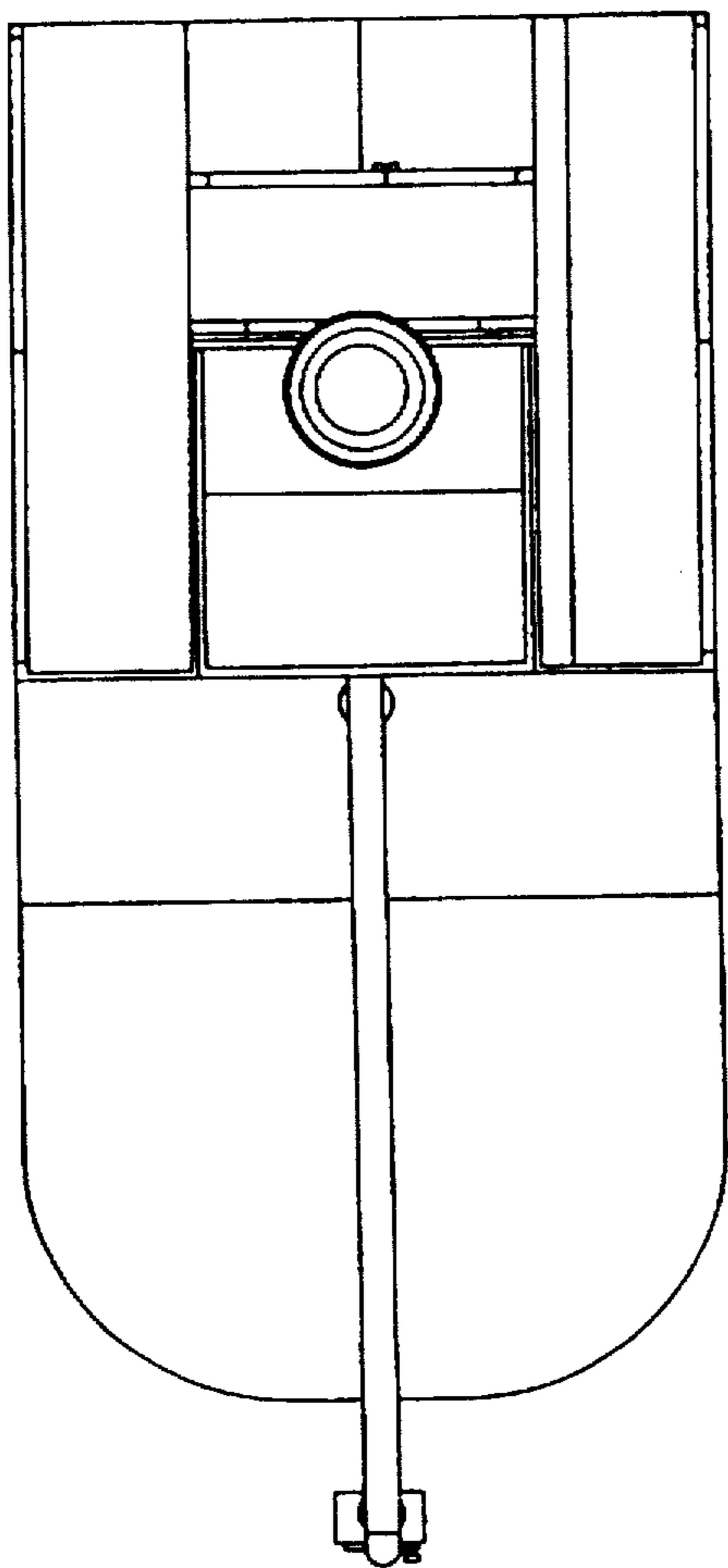


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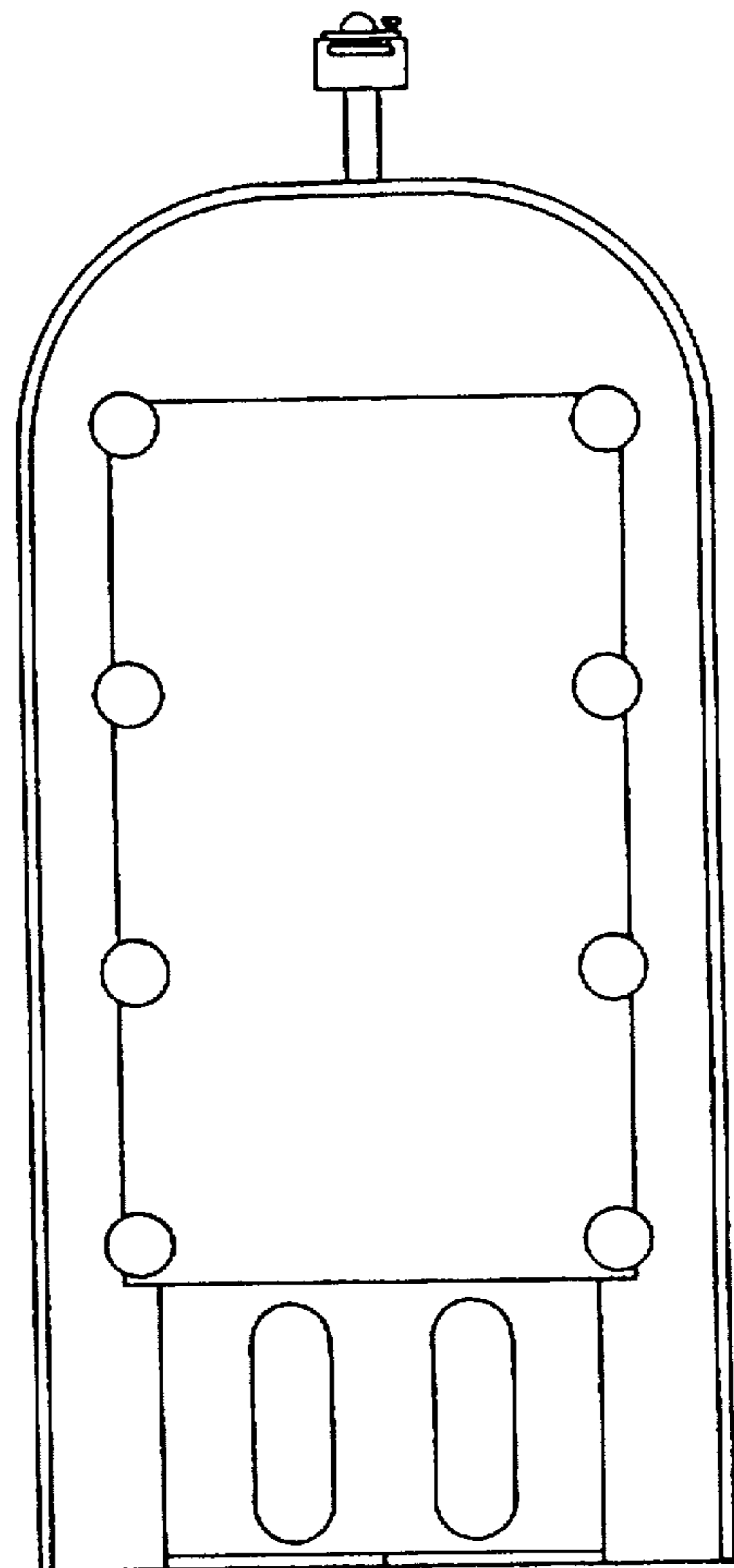


Fig. 102

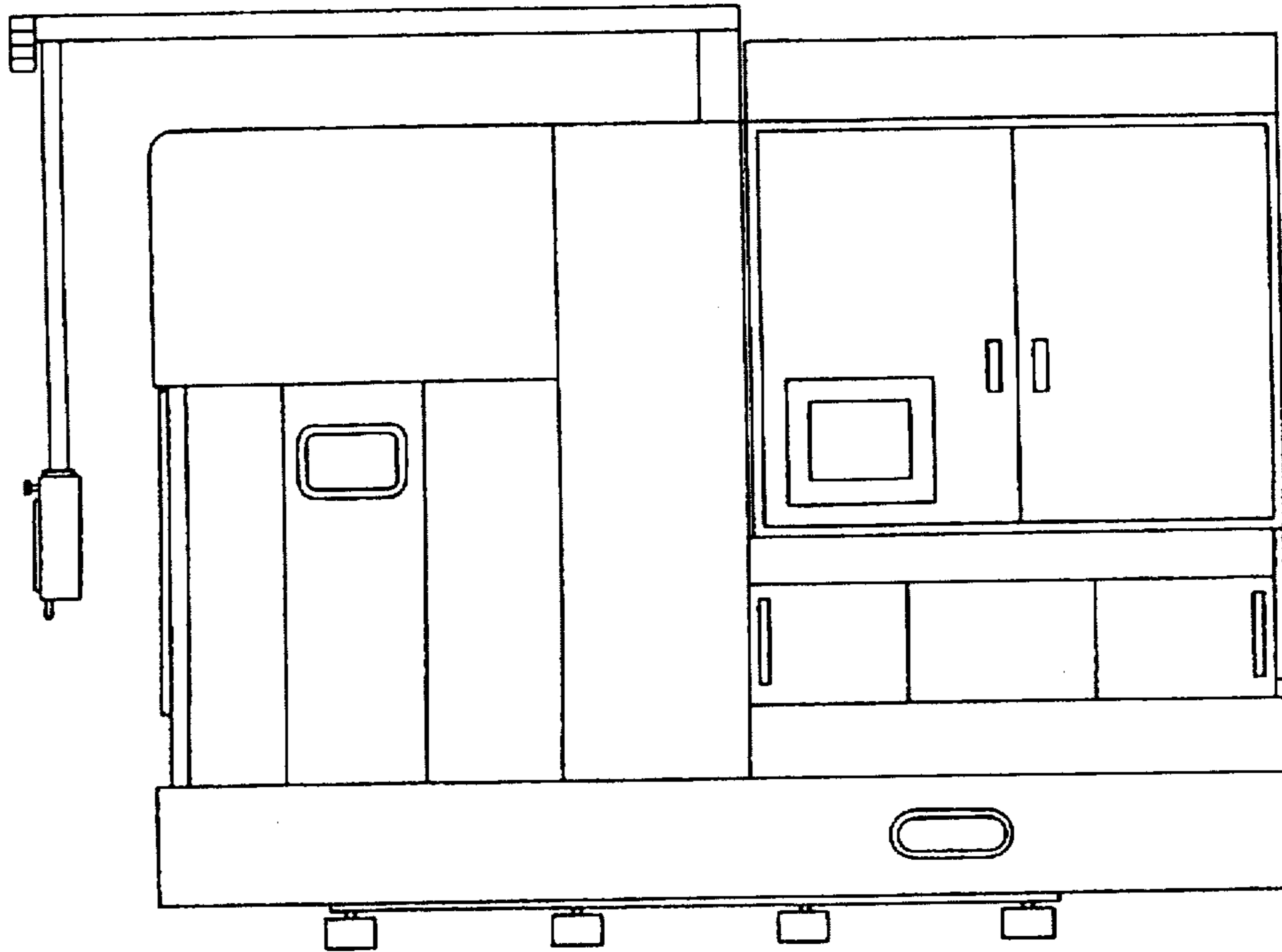


Fig. 103

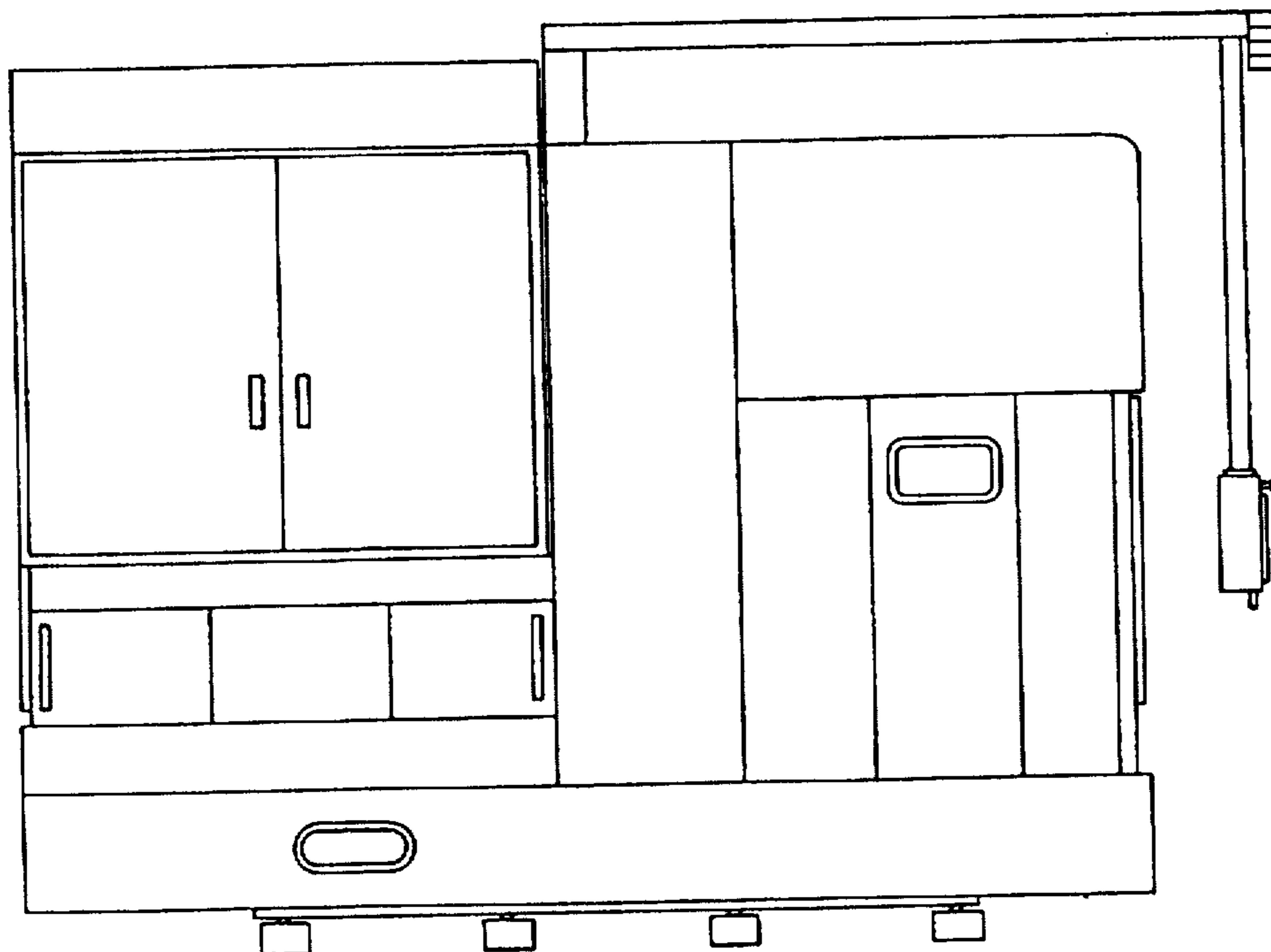


Fig. 104

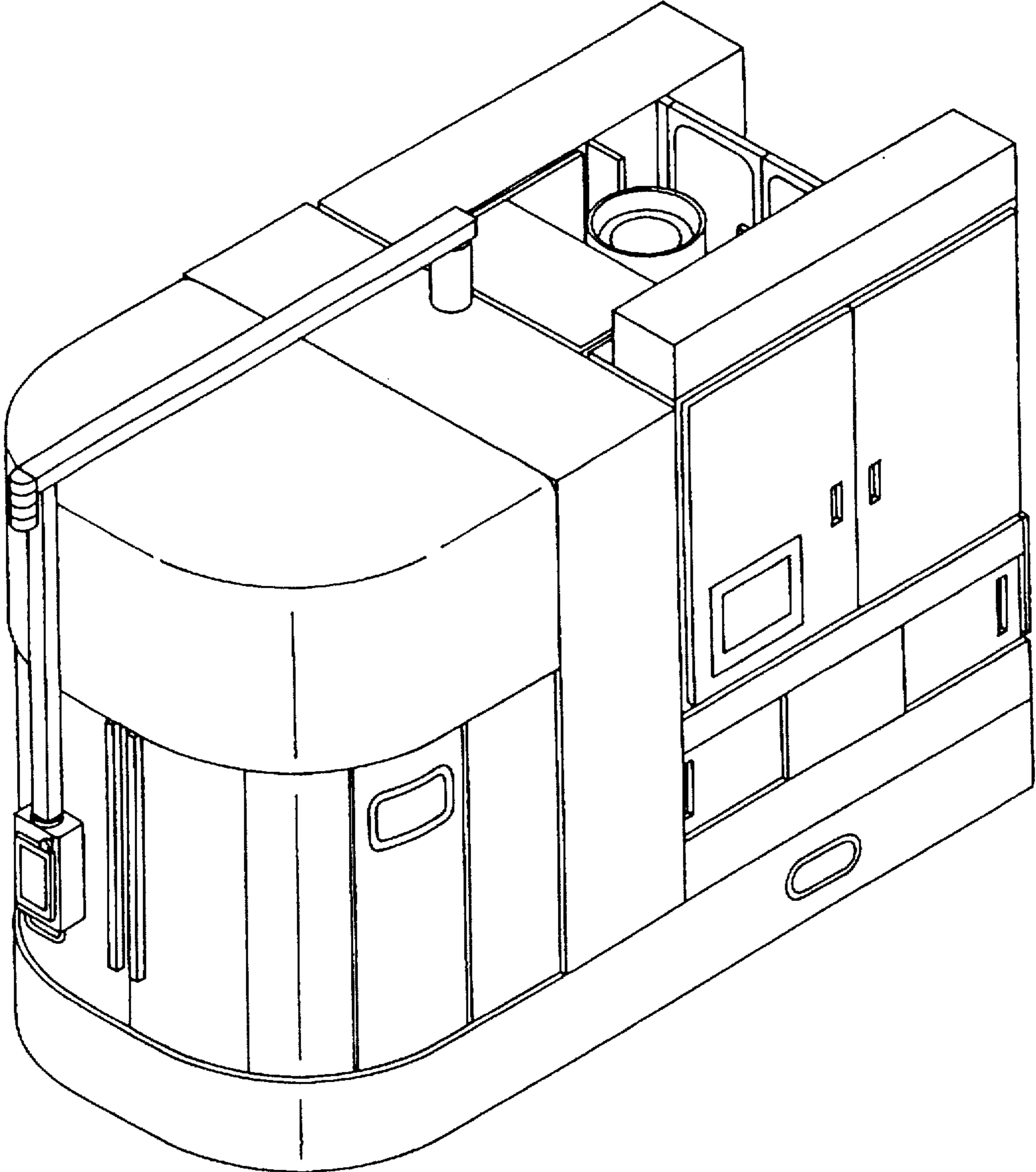


Fig. 105

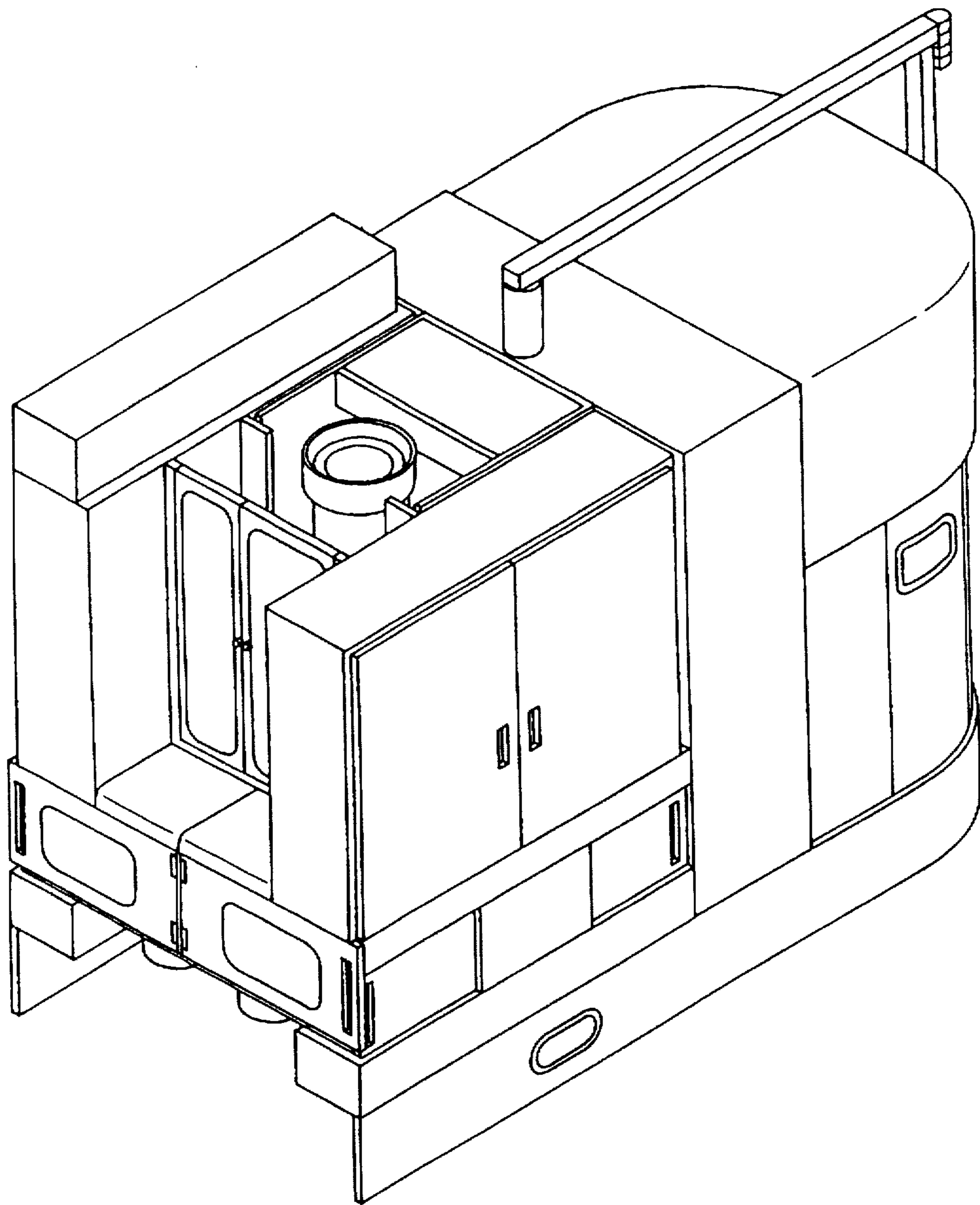


Fig. 106

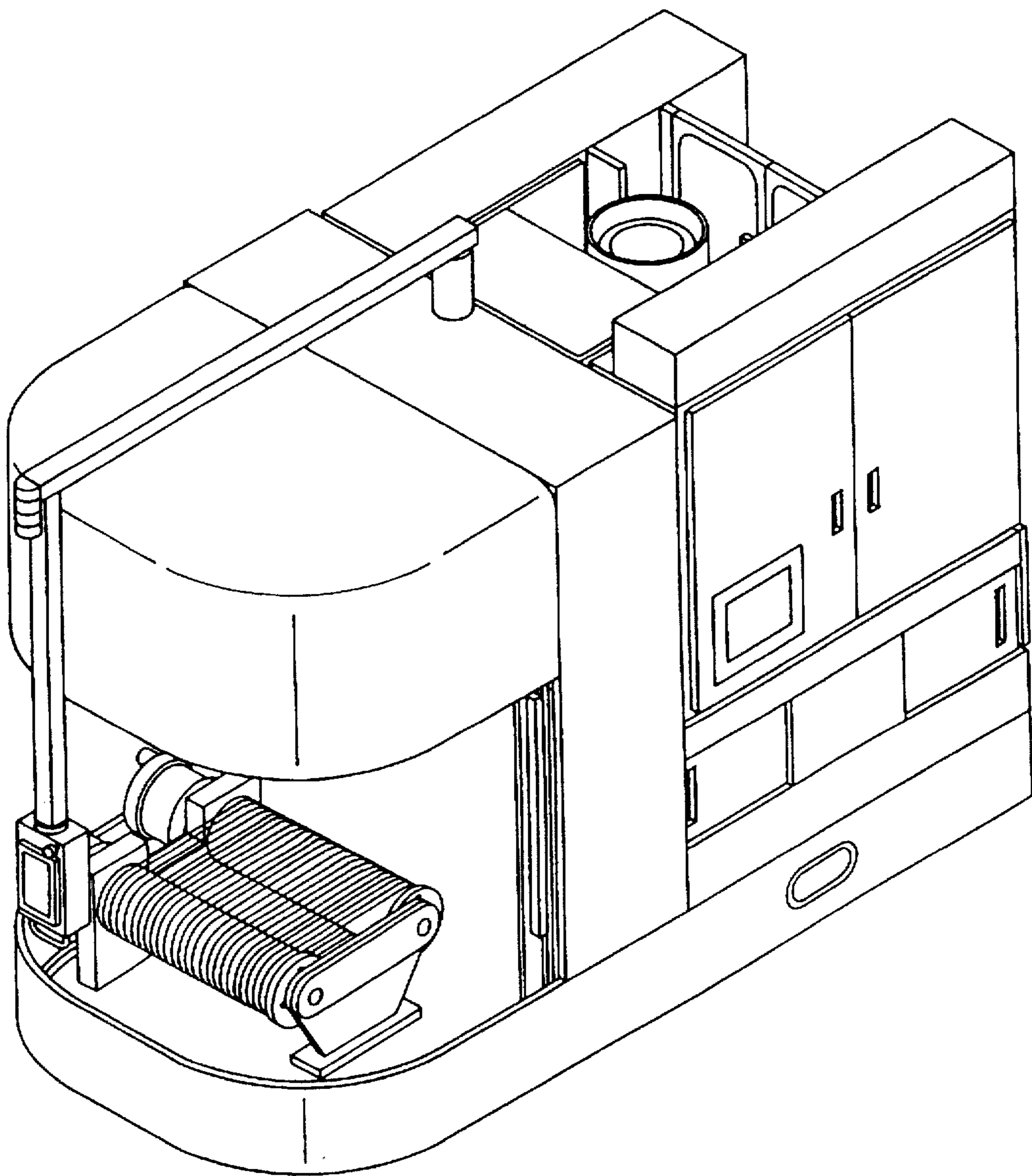


Fig. 107

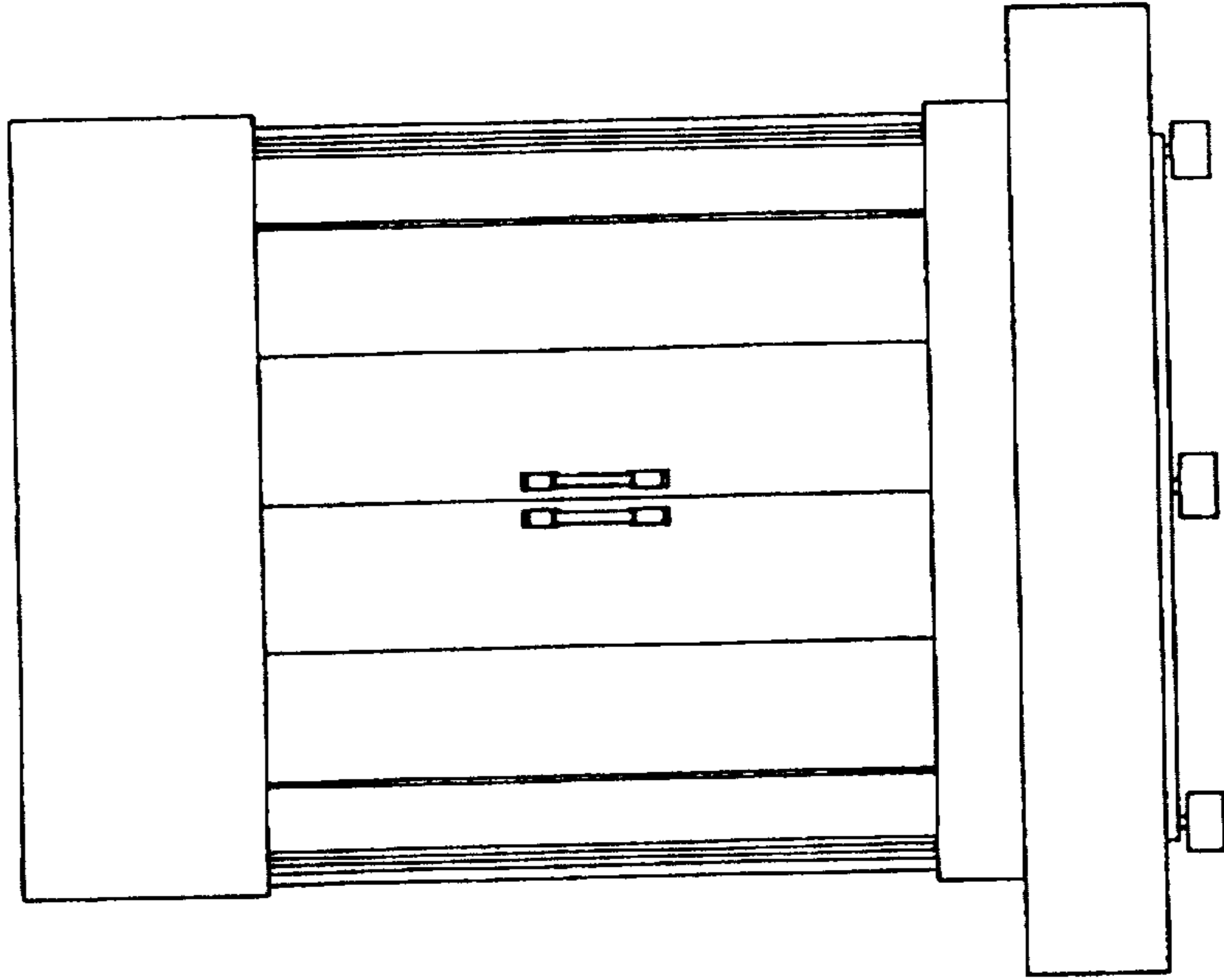


Fig. 108

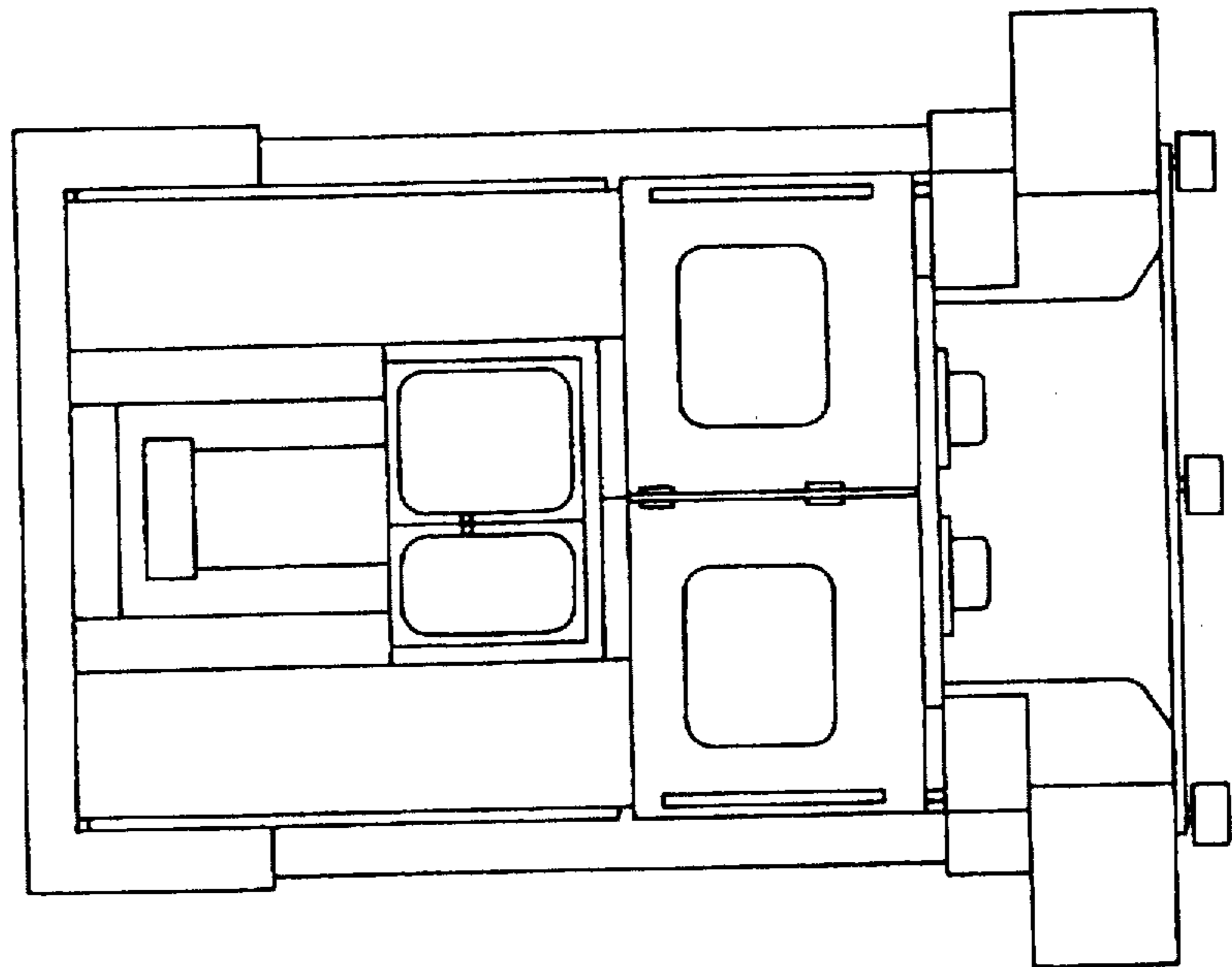


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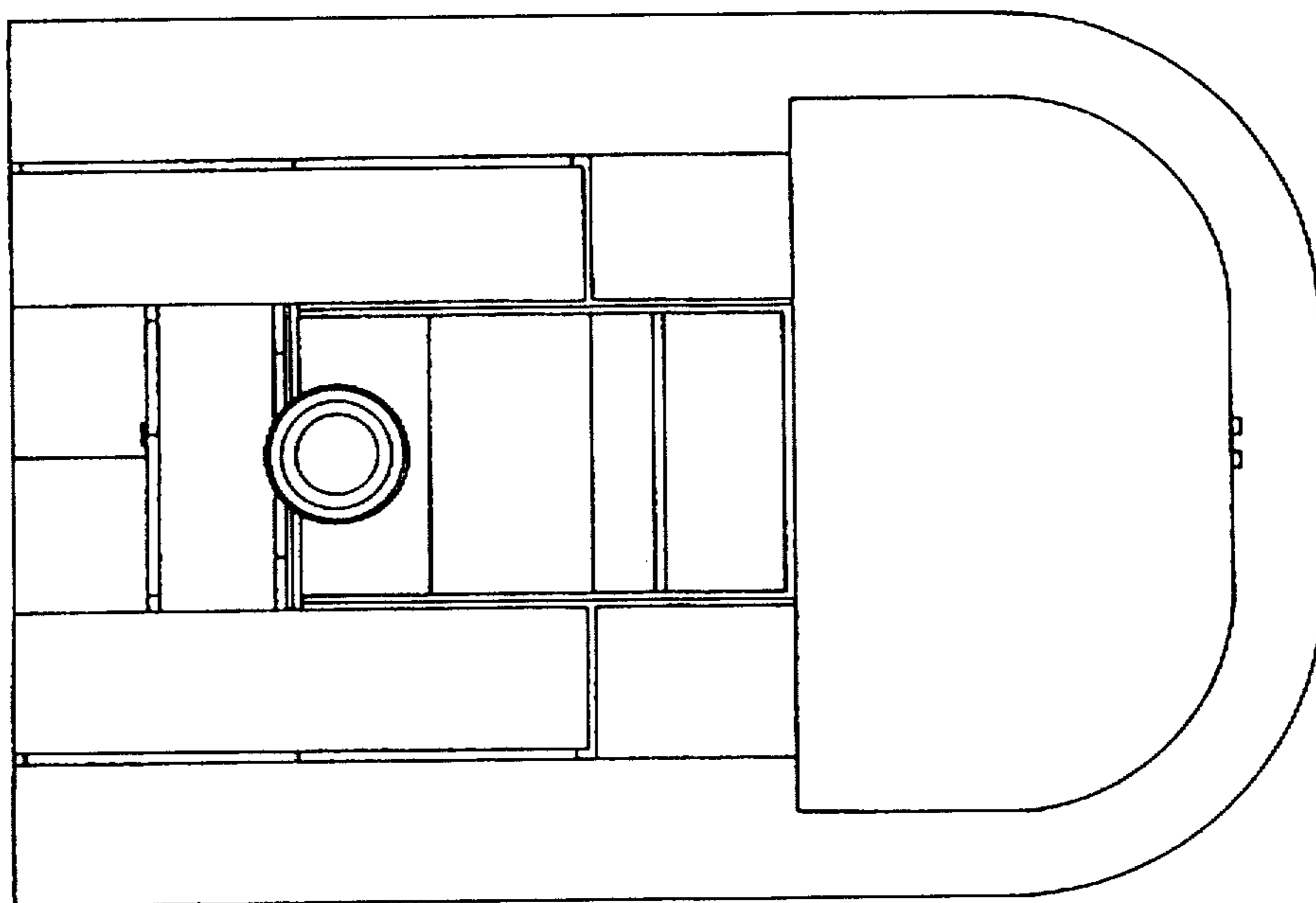


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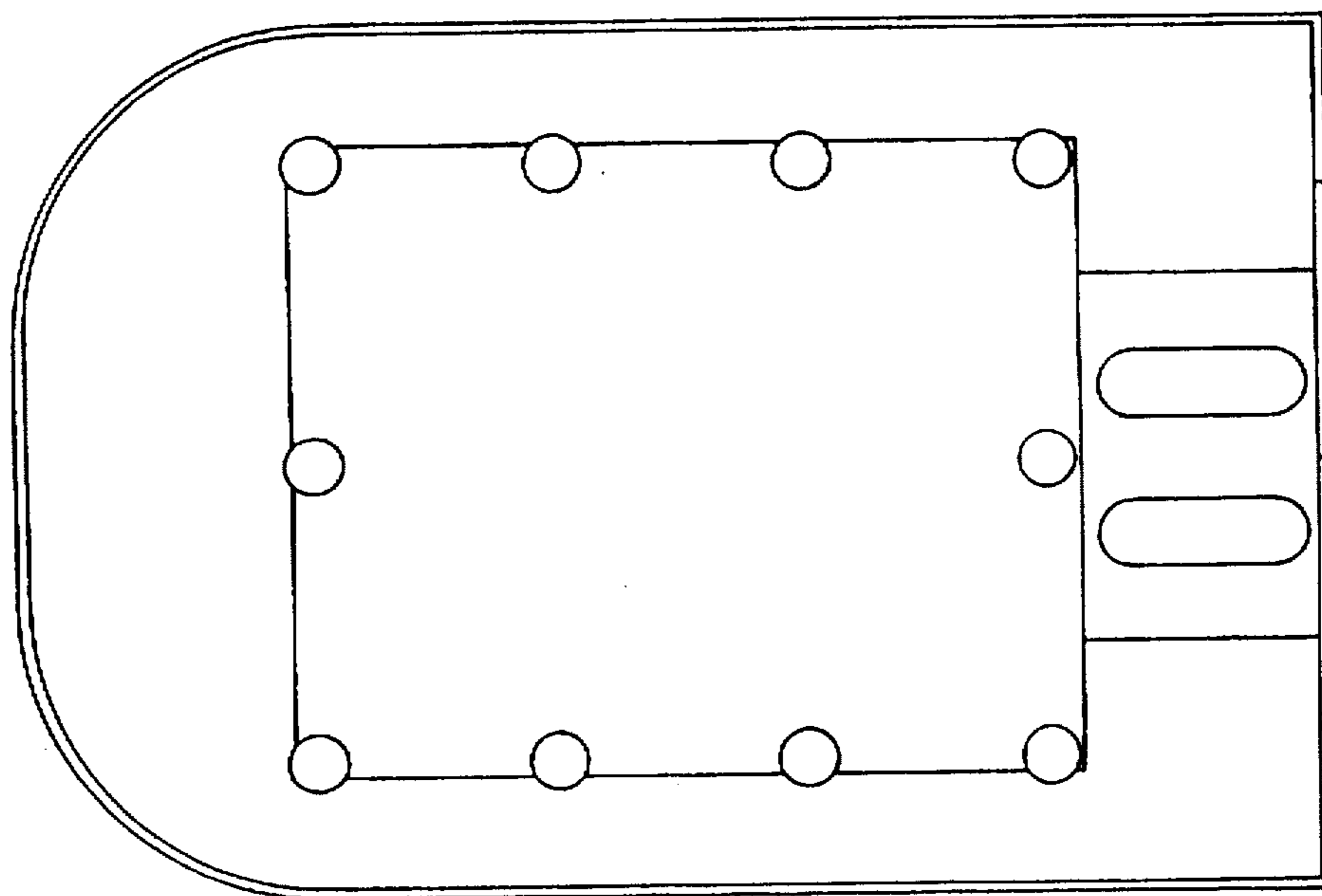


Fig. 111

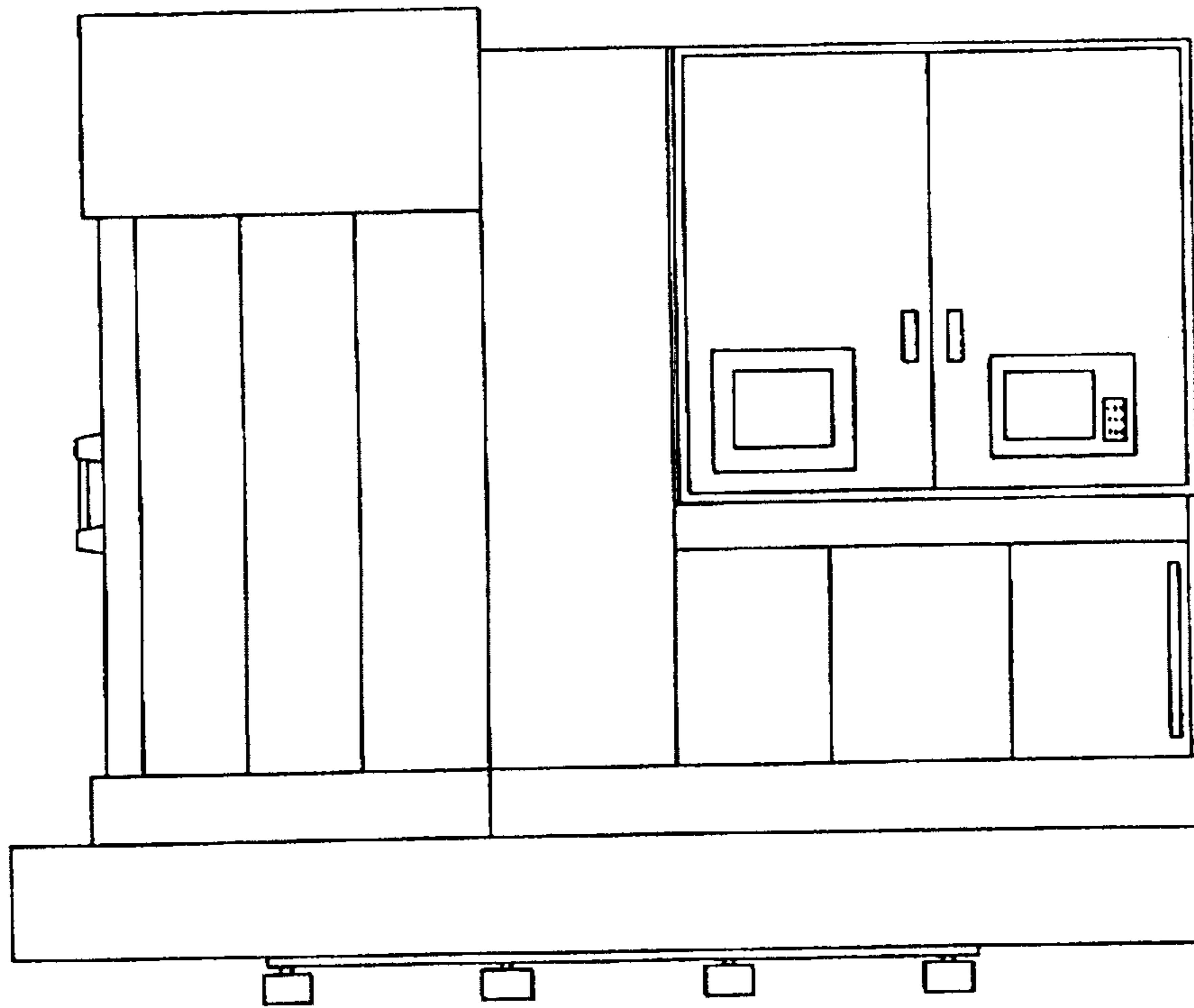


Fig. 112

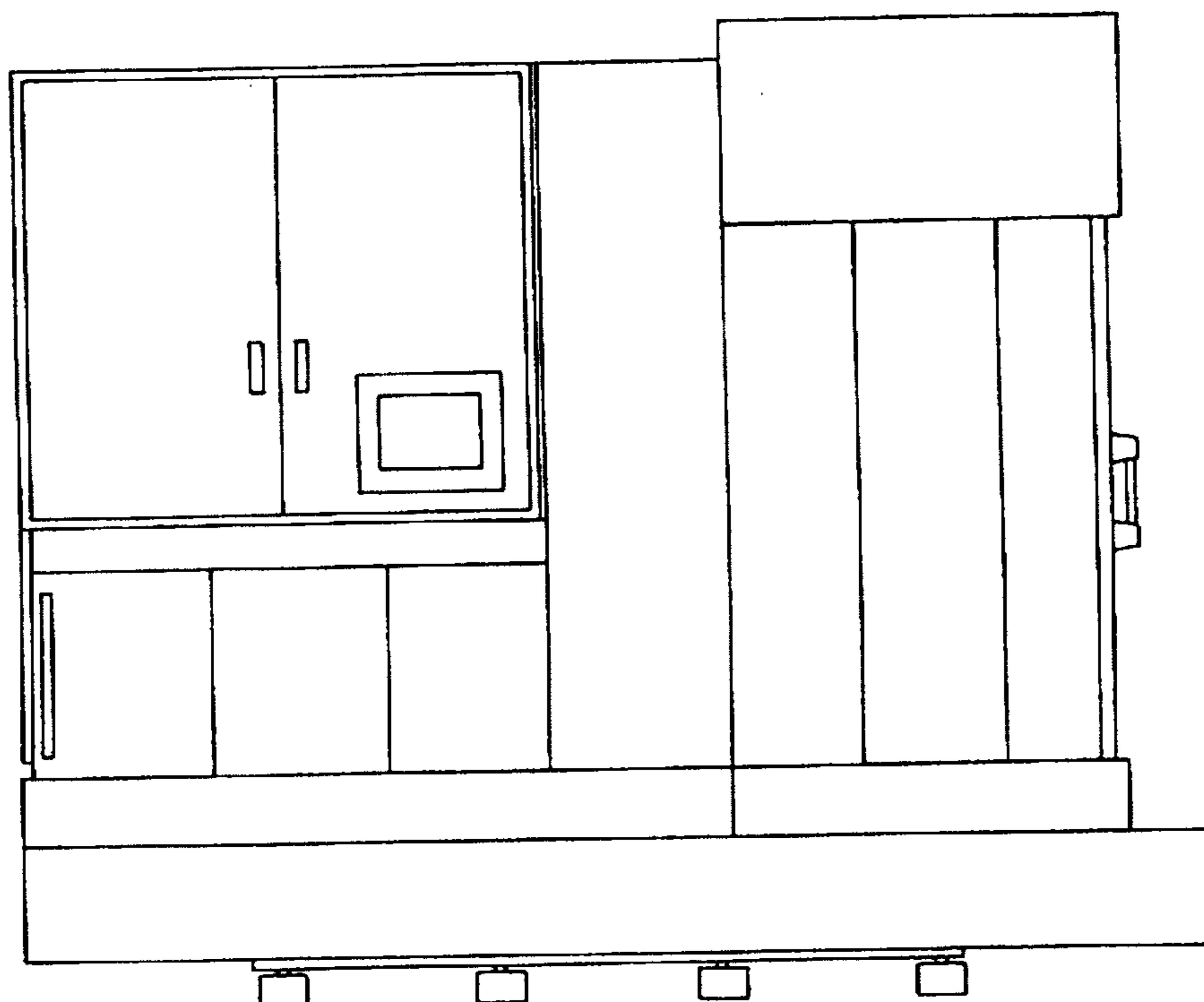


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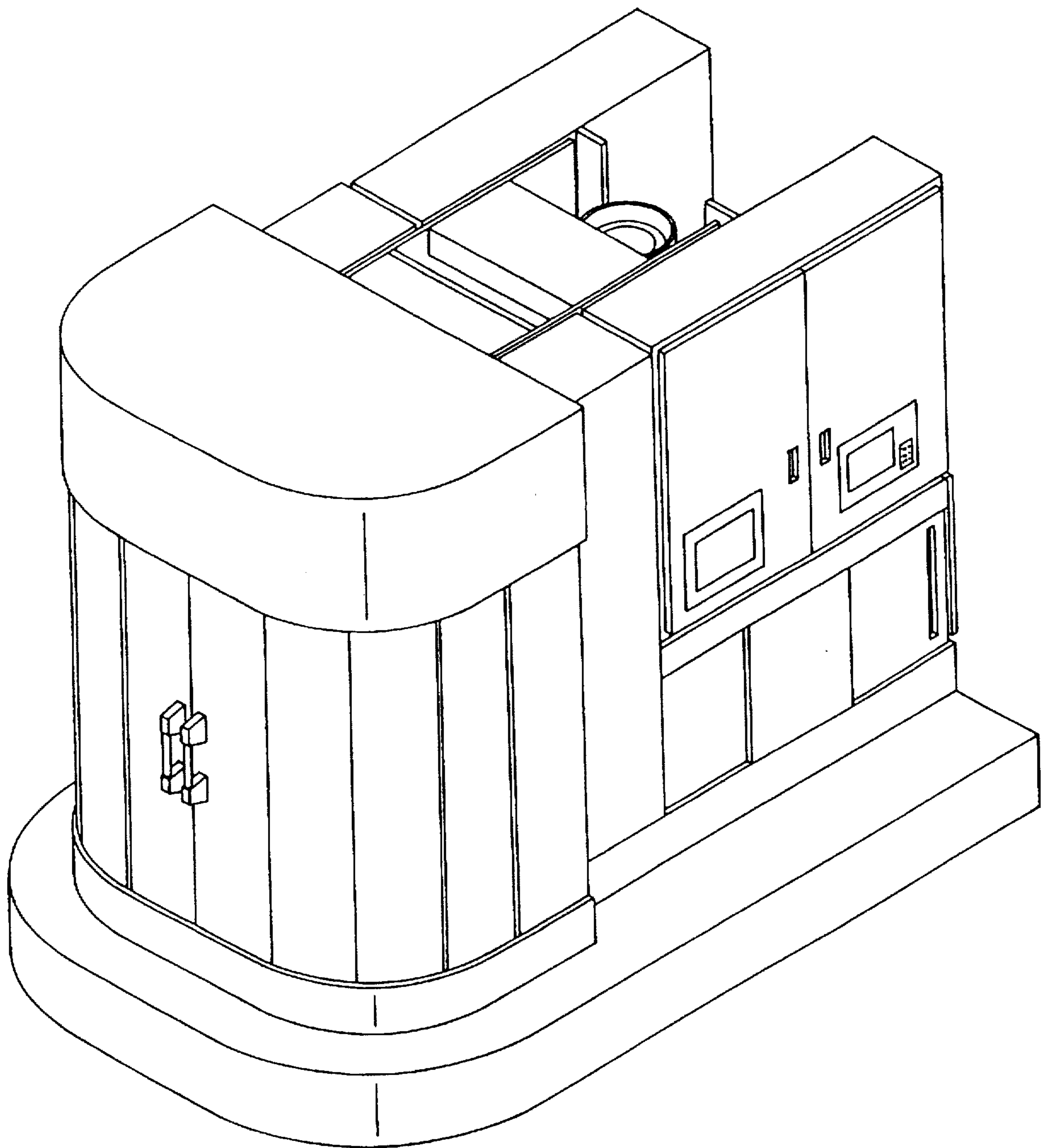


Fig. 114

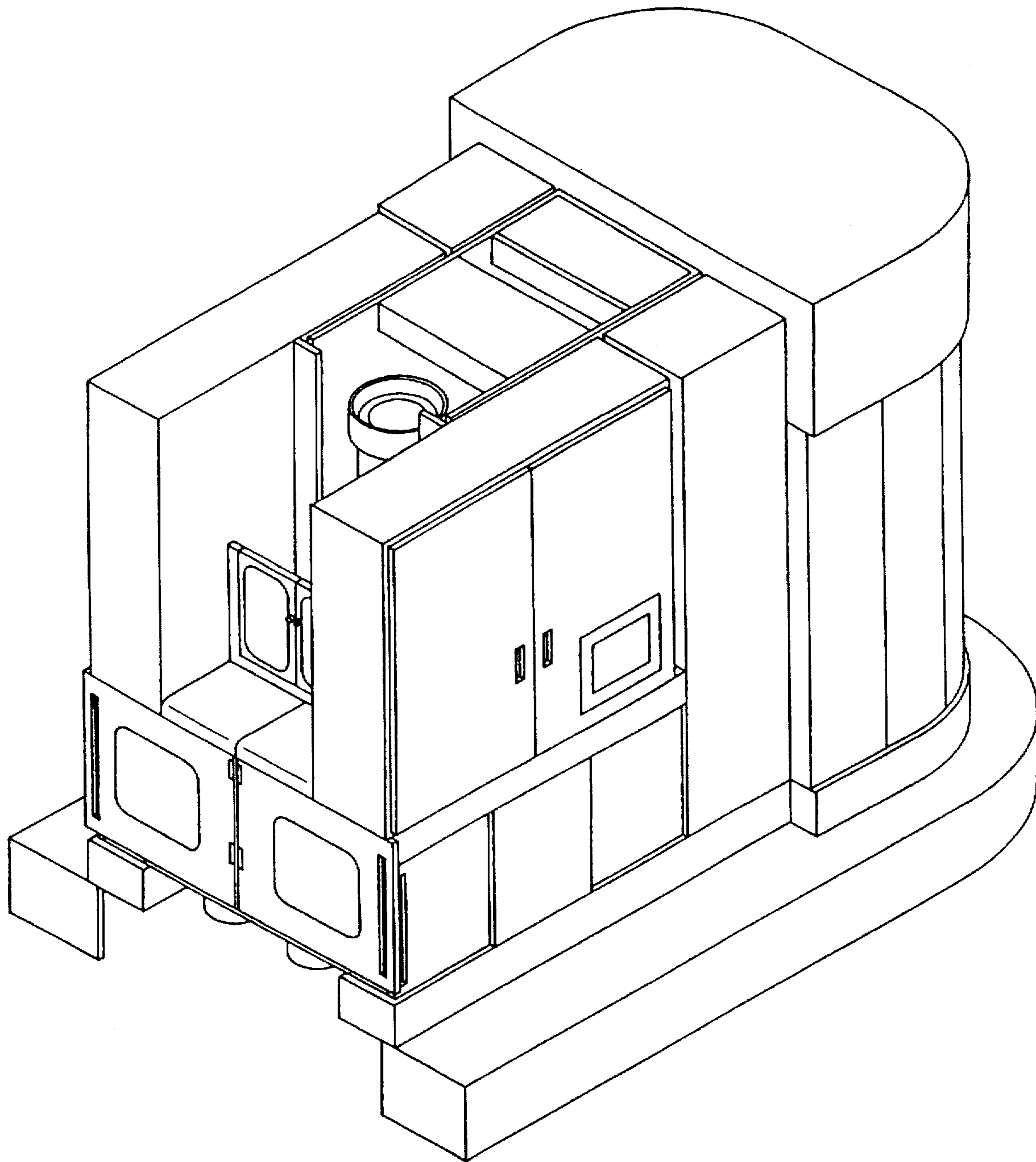


Fig. 115

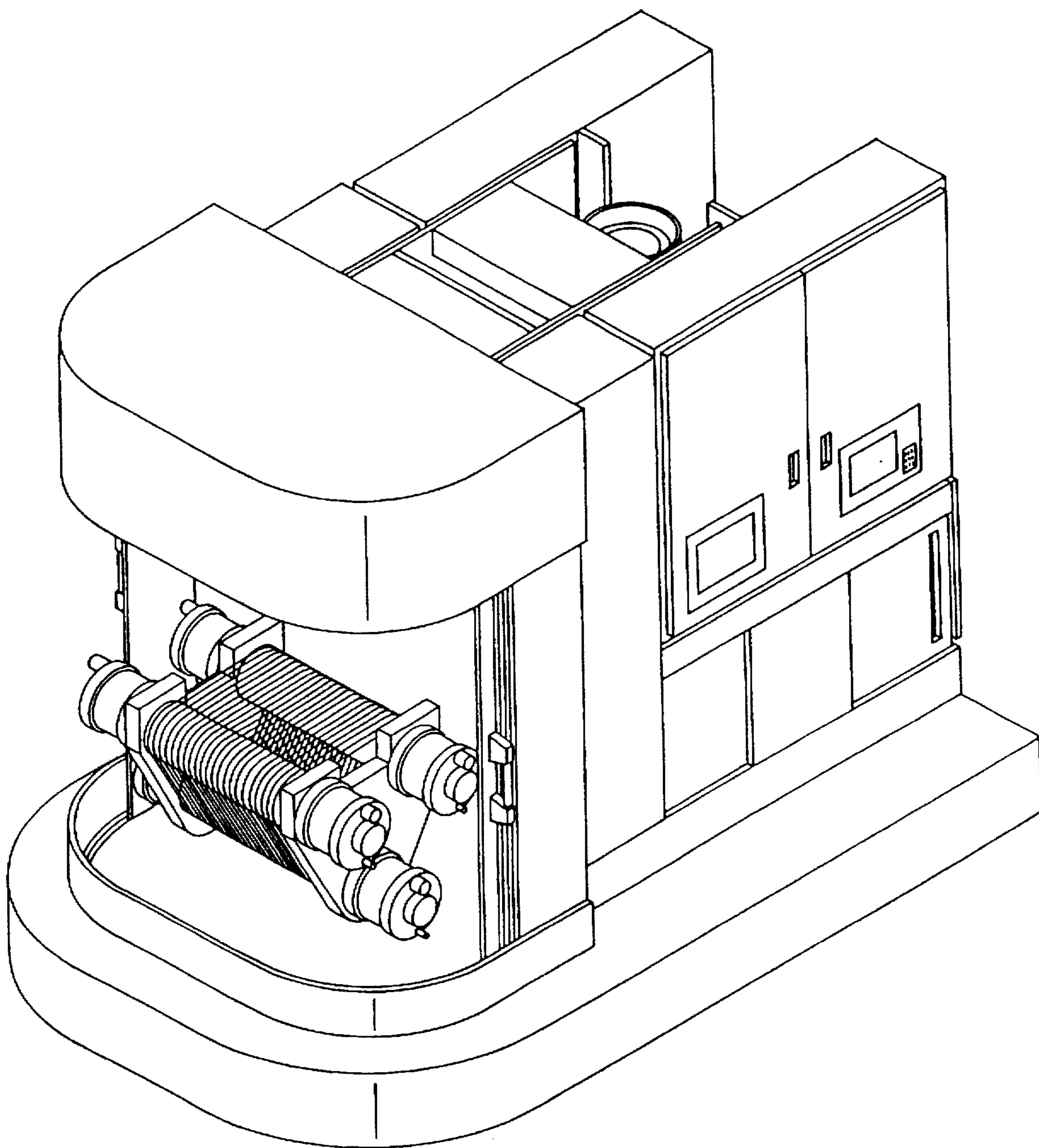


Fig. 116

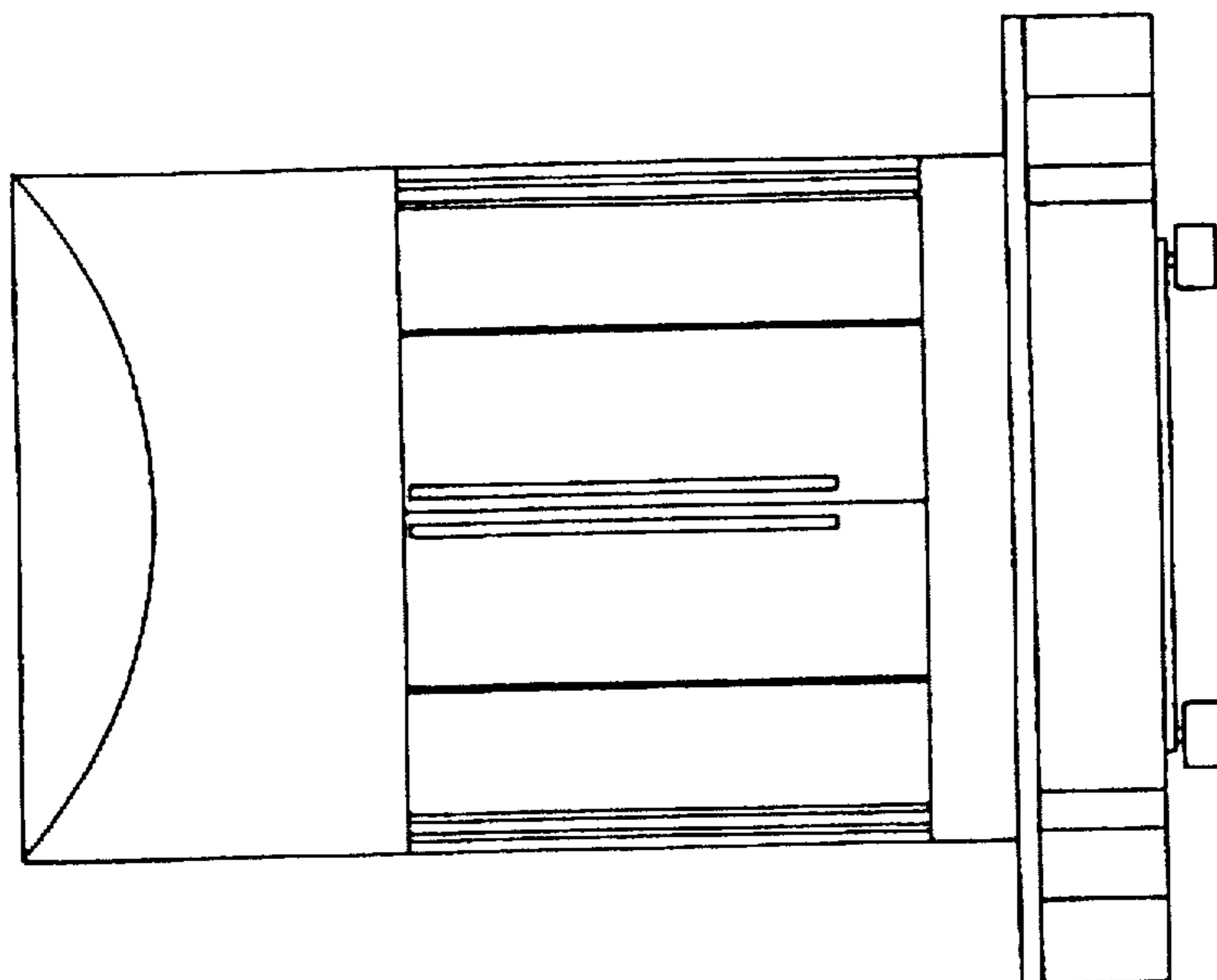


Fig. 117

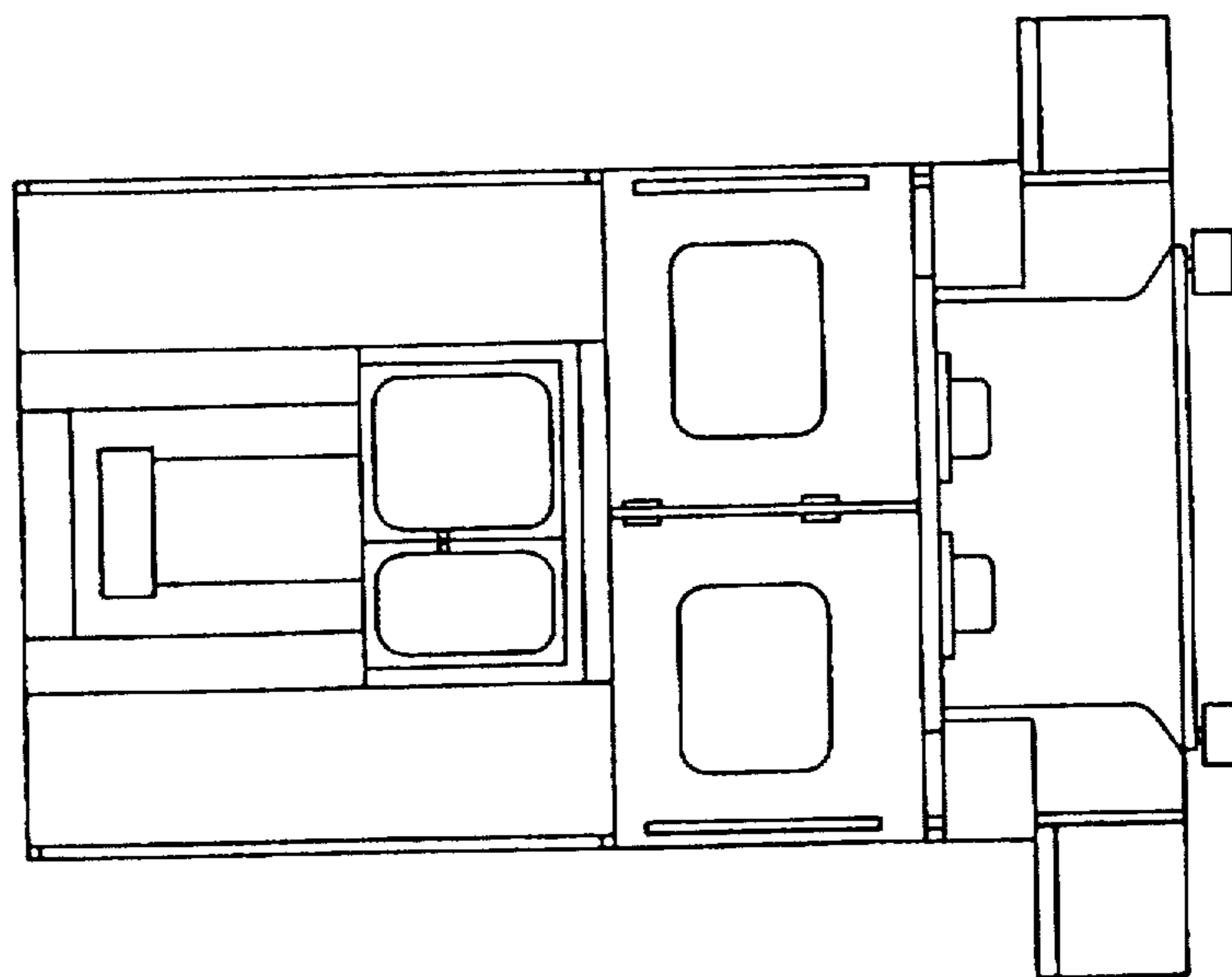


Fig. 118

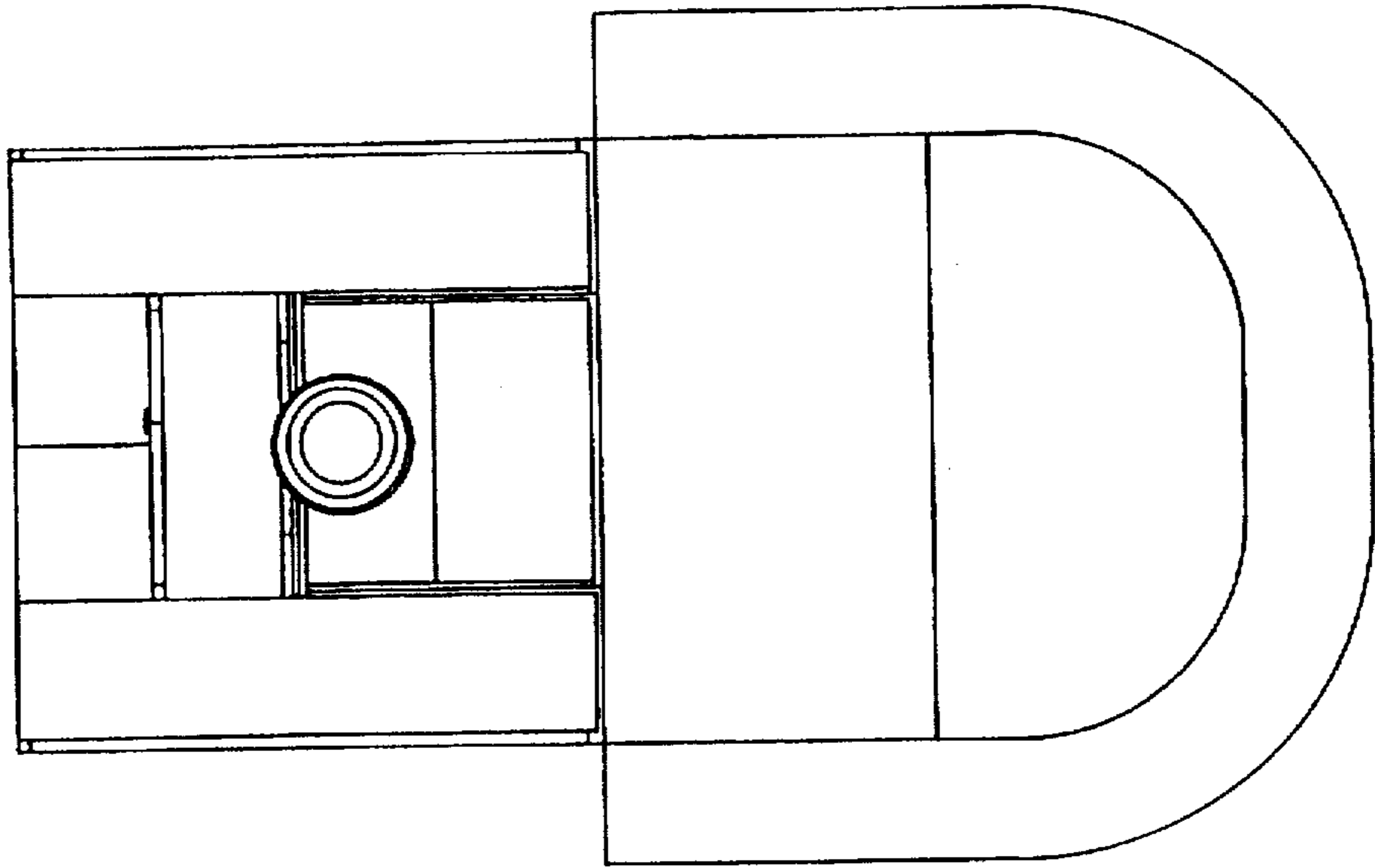


Fig. 119

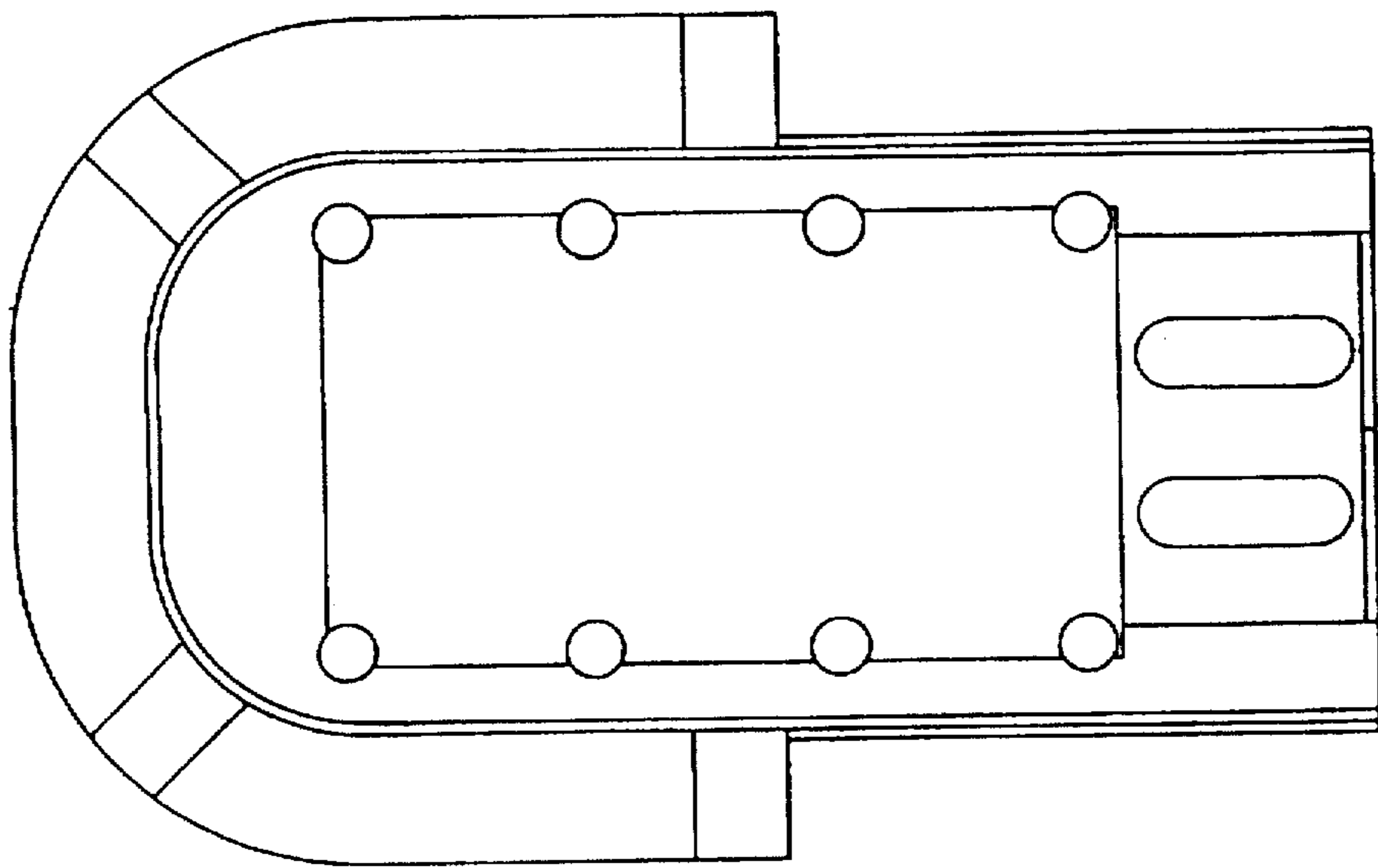


Fig. 120

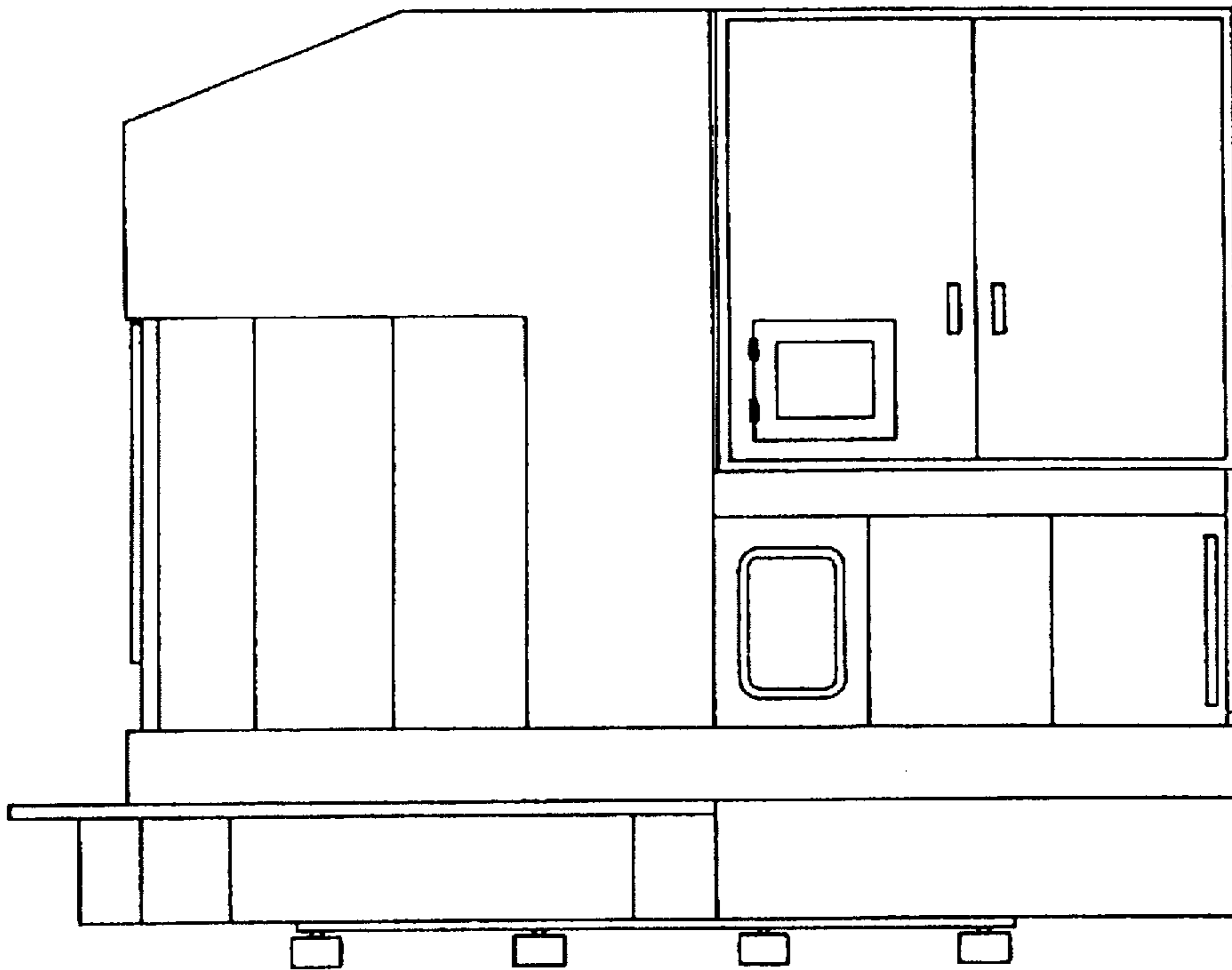


Fig. 121

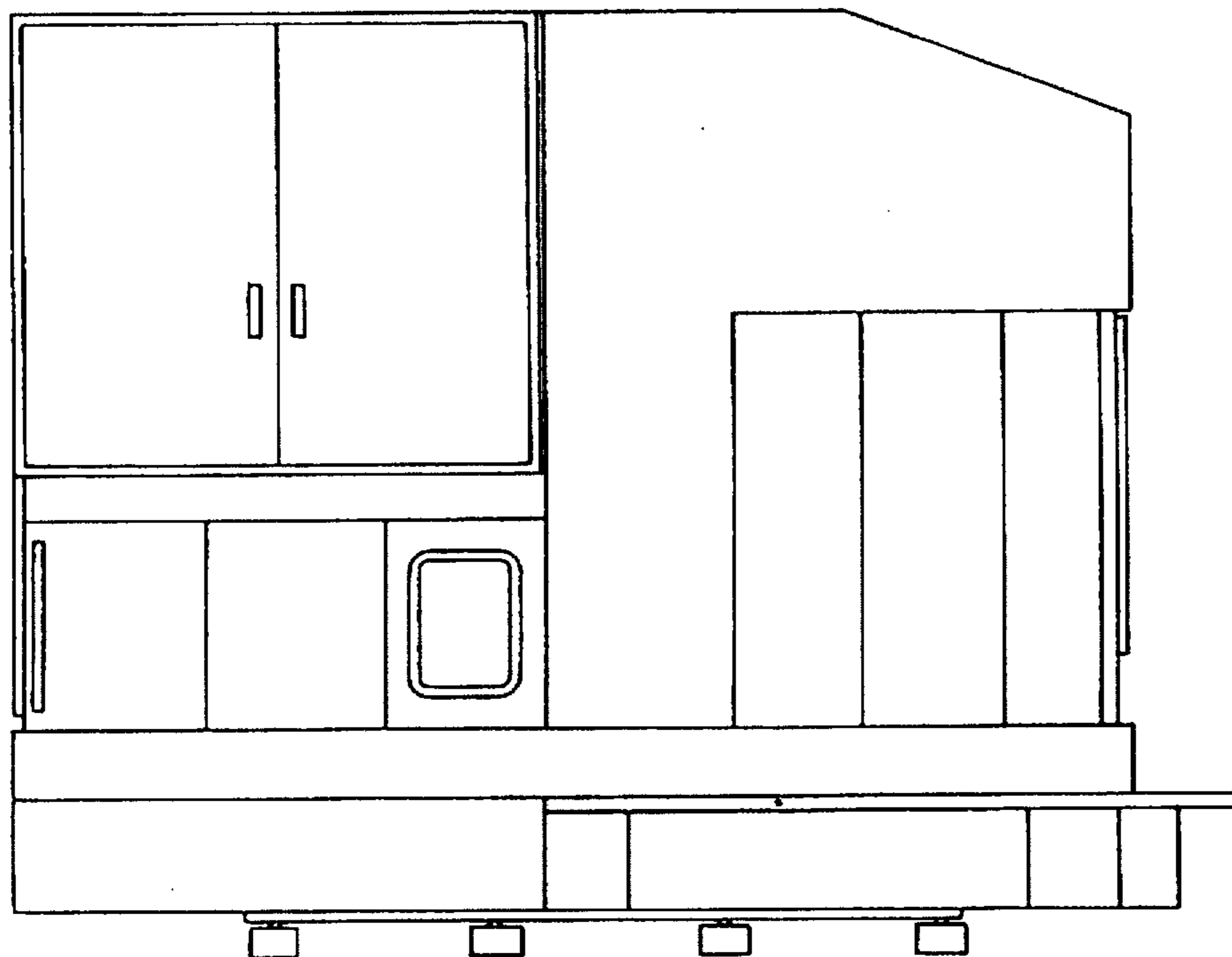


Fig. 122

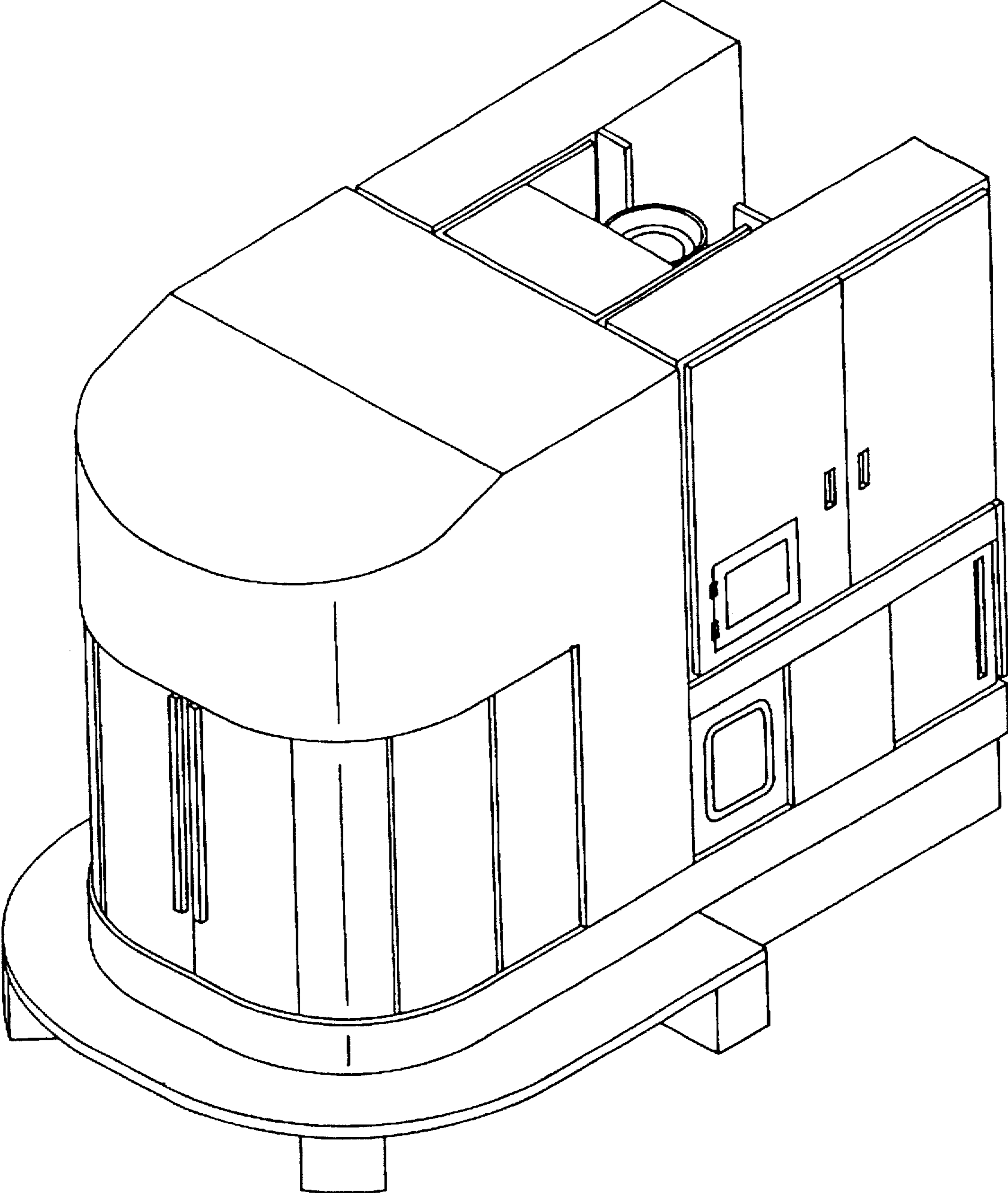


Fig. 123

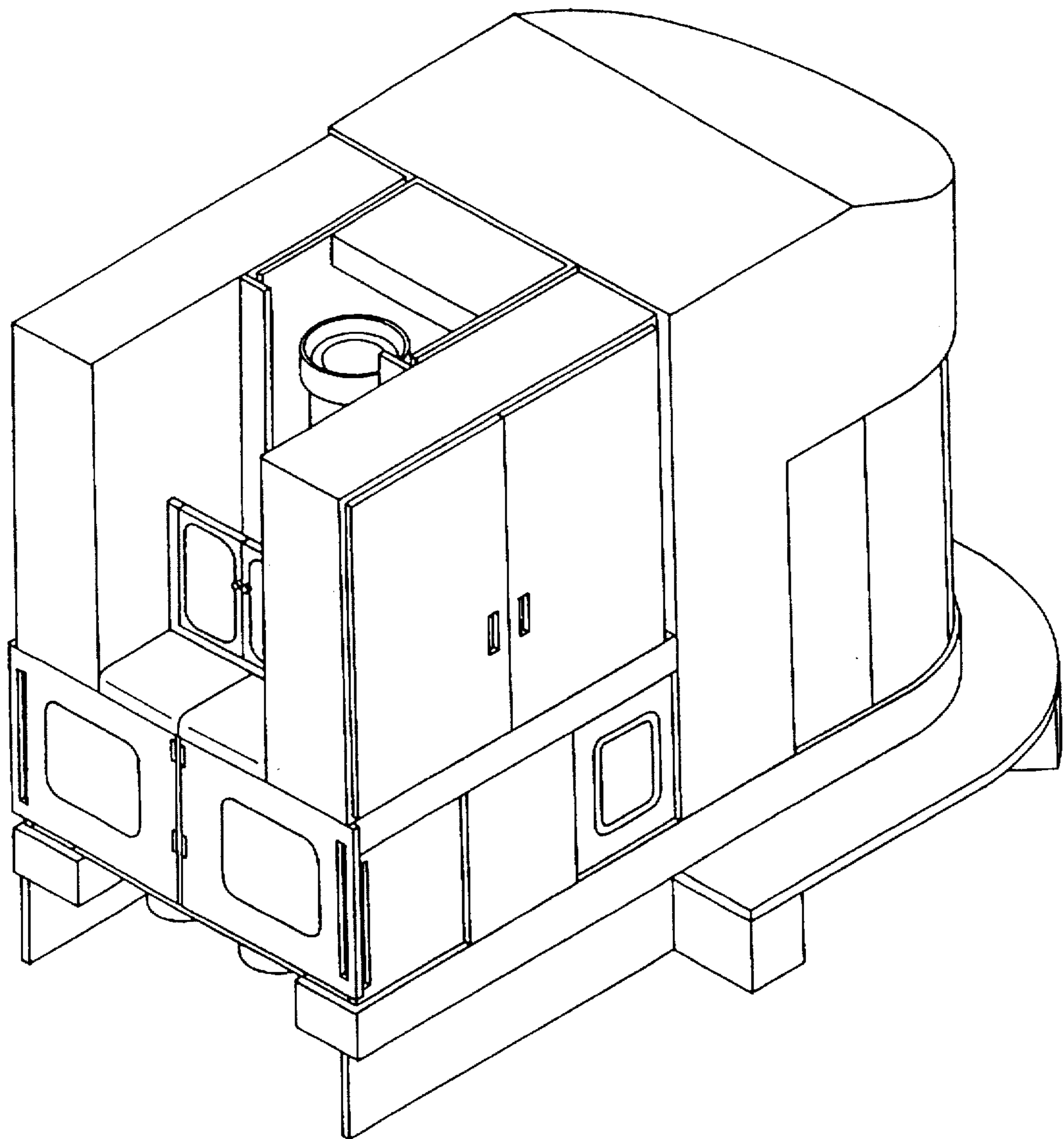


Fig. 124

