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

(10) **Patent No.:** **US D620,144 S**  
(45) **Date of Patent:** **\*\* Jul. 20, 2010**

(54) **DUAL FUNCTION INSULATED FLOOR AND  
ROOF PANEL FOR INTEGRATED  
CONCRETE ROOF OR FLOOR**

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Miami, FL (US) 33134

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

(21) Appl. No.: **29/342,372**

(22) Filed: **Aug. 24, 2009**

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 29/310,738,  
filed on Sep. 8, 2008, now Pat. No. Des. 599,037.

(51) **LOC (9) Cl.** ..... **25-02**

(52) **U.S. Cl.** ..... **D25/138**

(58) **Field of Classification Search** ..... D25/138-139,  
D25/149-150, 157, 113, 58, 119; 52/578,  
52/588.1, 586.1, 586.2, 782.1, 783.1, 589.1,  
52/311.1, 311.2, 414-415, 474-475.1, 483.1  
See application file for complete search history.

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*Primary Examiner*—Catherine R Oliver

(74) *Attorney, Agent, or Firm*—Melvin K. Silverman; Yi Li

(57) **CLAIM**

The ornamental design for a dual function insulated floor and roof panel for integrated concrete floor or roof, as shown and described.

**DESCRIPTION**

FIG. 1 is a top, front and right side perspective view of a dual function insulated floor and roof panel for integrated concrete floor or roof, showing my new design;

FIG. 2 is a bottom, rear and right side perspective view of the panel shown in FIG. 1;

FIG. 3 is a right side elevational view of the panel shown in FIG. 1, the opposite side being a mirror image;

FIG. 4 is a front elevational view of the panel shown in FIG. 1, the opposite side being a mirror image;

FIG. 5 is a top plan view of the panel shown in FIG. 1; and

FIG. 6 is a bottom plan view of the panel shown in FIG. 1;

FIG. 7 is a top, front and right side perspective view of a further embodiment of the dual function insulated floor and roof panel shown in FIG. 1, including two wrapping bands wrapped around the panel, showing my new design;

FIG. 8 is a bottom, rear and right side perspective view of the panel shown in FIG. 7;

FIG. 9 is a right side elevational view of the panel shown in FIG. 7; the opposite side being a mirror image;

FIG. 10 is a front elevational view of the panel shown in FIG. 7, the opposite side being a mirror image;

FIG. 11 is a top plan view of the panel shown in FIG. 7; and

FIG. 12 is a bottom plan view of the panel shown in FIG. 7;

FIG. 13 is a top, front and right side perspective view of yet a further embodiment of the dual function insulated floor and roof panel shown in FIG. 1, including a plurality of through-holes on web sections of studs of the panel, showing my new design;

FIG. 14 is a bottom, rear and right side perspective view of the panel shown in FIG. 13;

FIG. 15 is a right side elevational view of the panel shown in FIG. 13; the opposite side being a mirror image;

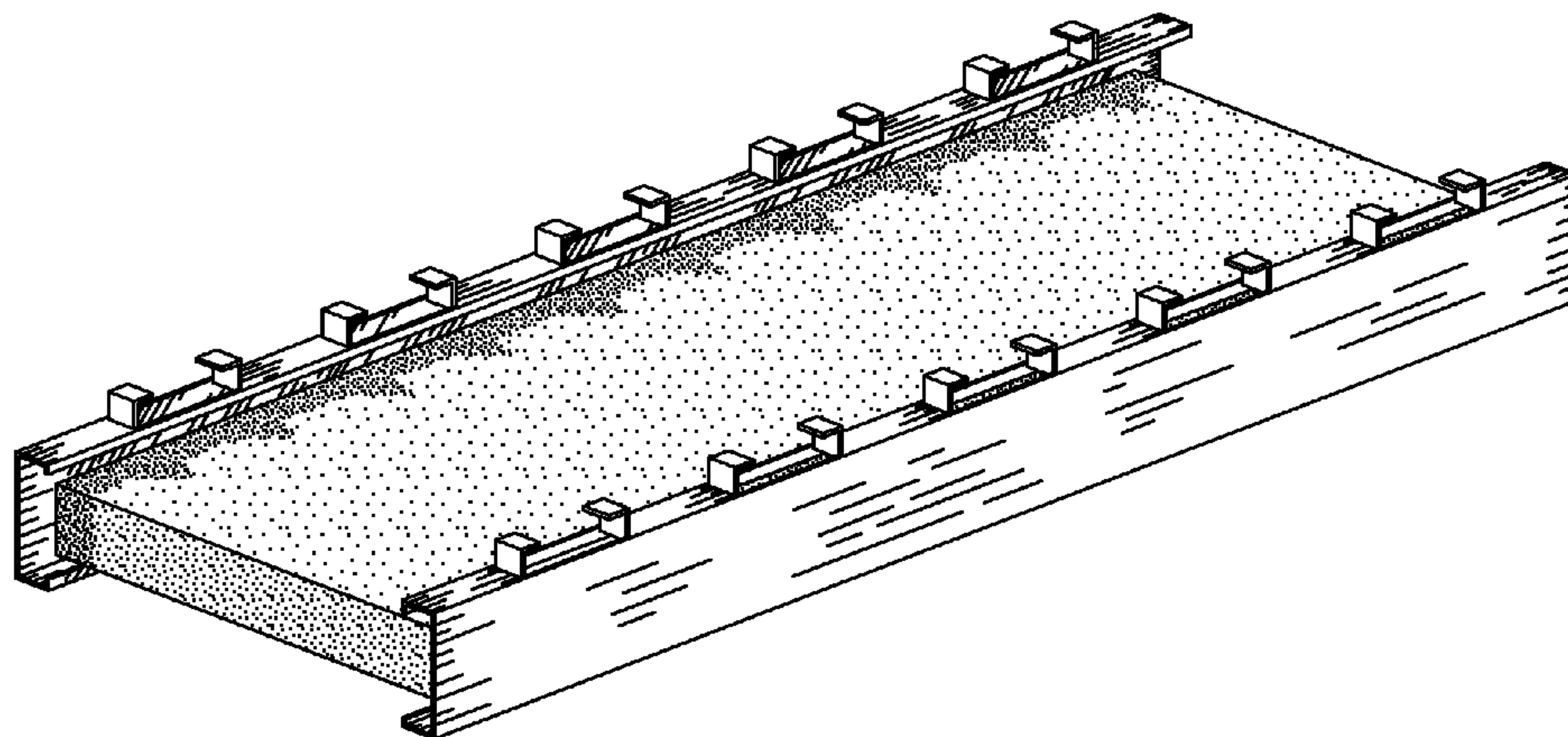




FIG. 16 is a front elevational view of the panel shown in FIG. 13, the opposite side being a mirror image;

FIG. 17 is a top plan view of the panel shown in FIG. 13; and

FIG. 18 is a bottom plan view of the panel shown in FIG. 13;

FIG. 19 is a top, front and right side perspective view of a further embodiment of the dual function insulated floor and roof panel shown in FIG. 13, including two wrapping bands wrapped around the panel, showing my new design;

FIG. 20 is a bottom, rear and right side perspective view of the panel shown in FIG. 19;

FIG. 21 is a right side elevational view of the panel shown in FIG. 19; the opposite side being a mirror image;

FIG. 22 is a front elevational view of the panel shown in FIG. 19, the opposite side being a mirror image;

FIG. 23 is a top plan view of the panel shown in FIG. 19; and

FIG. 24 is a bottom plan view of the panel shown in FIG. 19;

FIG. 25 is a top, front and right side perspective view of a further embodiment of a dual function insulated floor and roof panel for integrated concrete floor or roof, with the insulation board flush with two studs of the panel, showing my new design;

FIG. 26 is a bottom, rear and right side perspective view of the panel shown in FIG. 25;

FIG. 27 is a right side elevational view of the panel shown in FIG. 25; the opposite side being a mirror image;

FIG. 28 is a front elevational view of the panel shown in FIG. 25, the opposite side being a mirror image;

FIG. 29 is a top plan view of the panel shown in FIG. 25; and

FIG. 30 is a bottom plan view of the panel shown in FIG. 25;

FIG. 31 is a top, front and right side perspective view of a further embodiment of a dual function insulated floor and roof panel shown in FIG. 25, including two wrapping bands wrapped around the panel, showing my new design;

FIG. 32 is a bottom, rear and right side perspective view of the panel shown in FIG. 31;

FIG. 33 is a right side elevational view of the panel shown in FIG. 31; the opposite side being a mirror image;

FIG. 34 is a front elevational view of the panel shown in FIG. 31, the opposite side being a mirror image;

FIG. 35 is a top plan view of the panel shown in FIG. 31; and

FIG. 36 is a bottom plan view of the panel shown in FIG. 31;

FIG. 37 is a top, front and right side perspective view of yet a further embodiment of the dual function insulated floor and roof panel shown in FIG. 25, including a plurality of through-holes on web sections of studs of the panel, showing my new design;

FIG. 38 is a bottom, rear and right side perspective view of the panel shown in FIG. 37;

FIG. 39 is a right side elevational view of the panel shown in FIG. 37; the opposite side being a mirror image;

FIG. 40 is a front elevational view of the panel shown in FIG. 37, the opposite side being a mirror image;

FIG. 41 is a top plan view of the panel shown in FIG. 37; and

FIG. 42 is a bottom plan view of the panel shown in FIG. 37;

FIG. 43 is a top, front and right side perspective view of a further embodiment of the dual function insulated floor and roof panel shown in FIG. 37, including two wrapping bands wrapped around the panel, showing my new design;

FIG. 44 is a bottom, rear and right side perspective view of the panel shown in FIG. 43;

FIG. 45 is a right side elevational view of the panel shown in FIG. 43; the opposite side being a mirror image;

FIG. 46 is a front elevational view of the panel shown in FIG. 43, the opposite side being a mirror image;

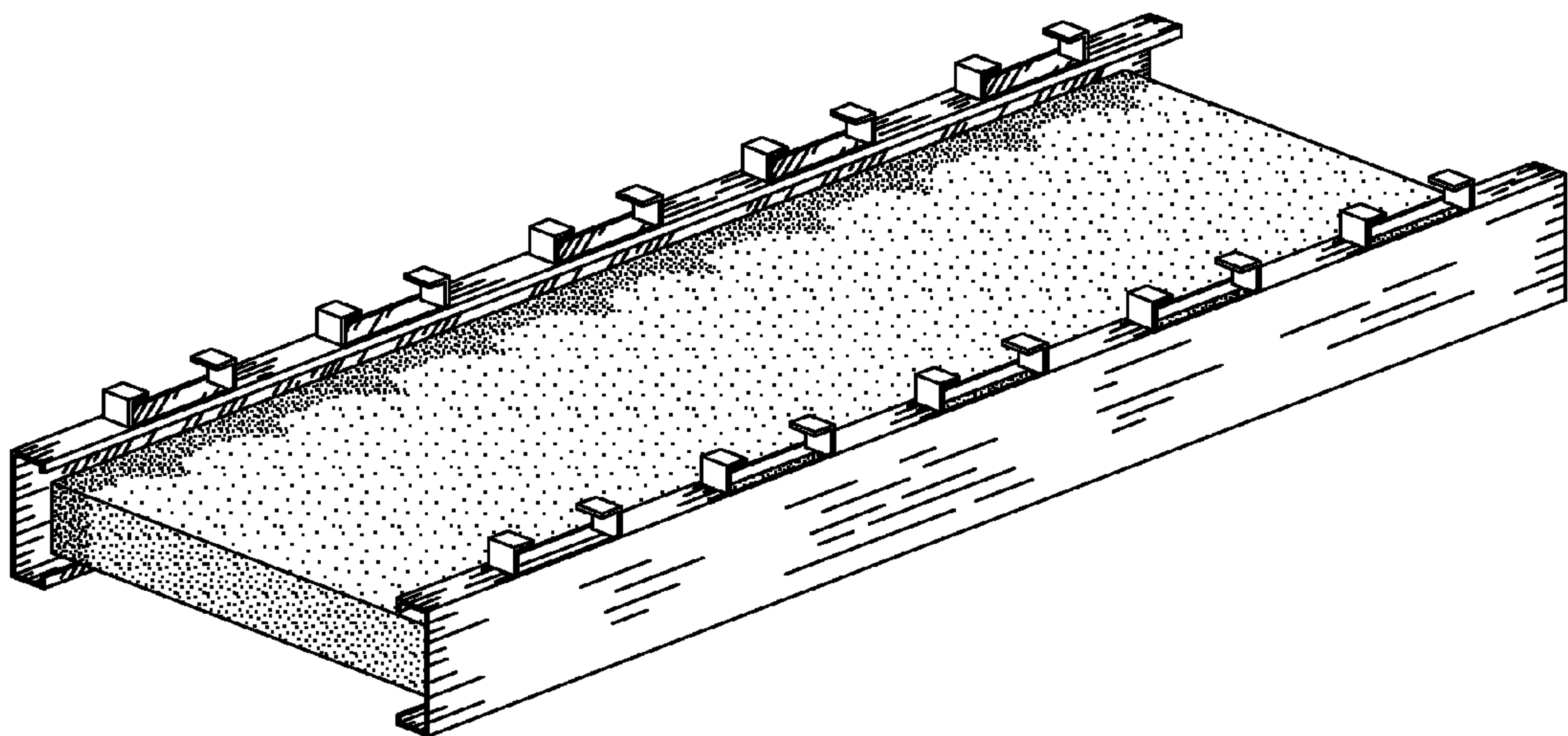
FIG. 47 is a top plan view of the panel shown in FIG. 43; and,

FIG. 48 is a bottom plan view of the panel shown in FIG. 43.

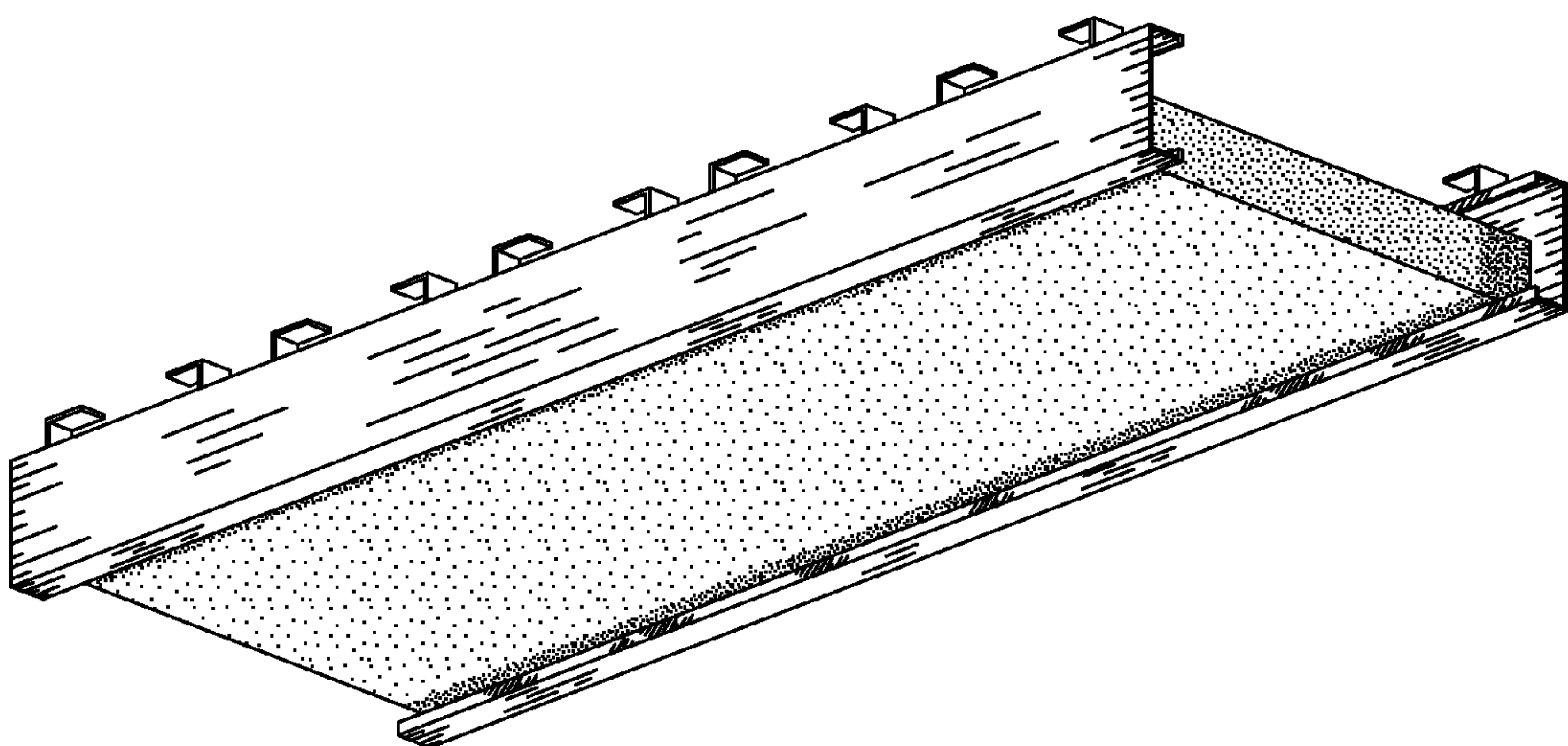
**1 Claim, 16 Drawing Sheets**



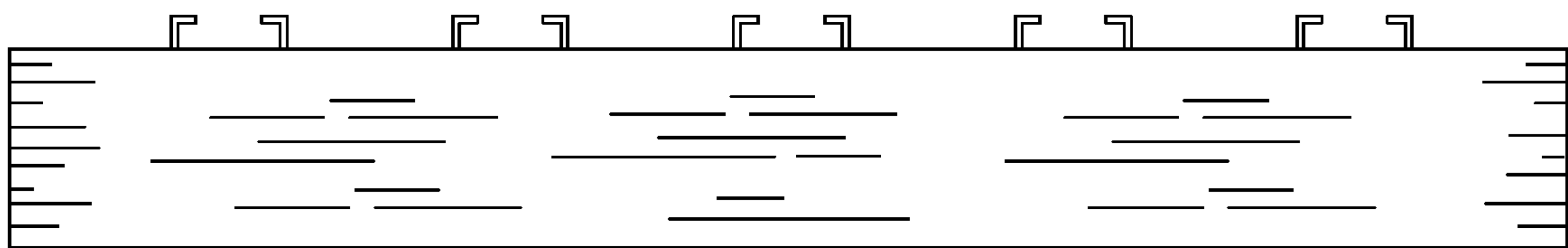
**Fig. 1**



**Fig. 2**

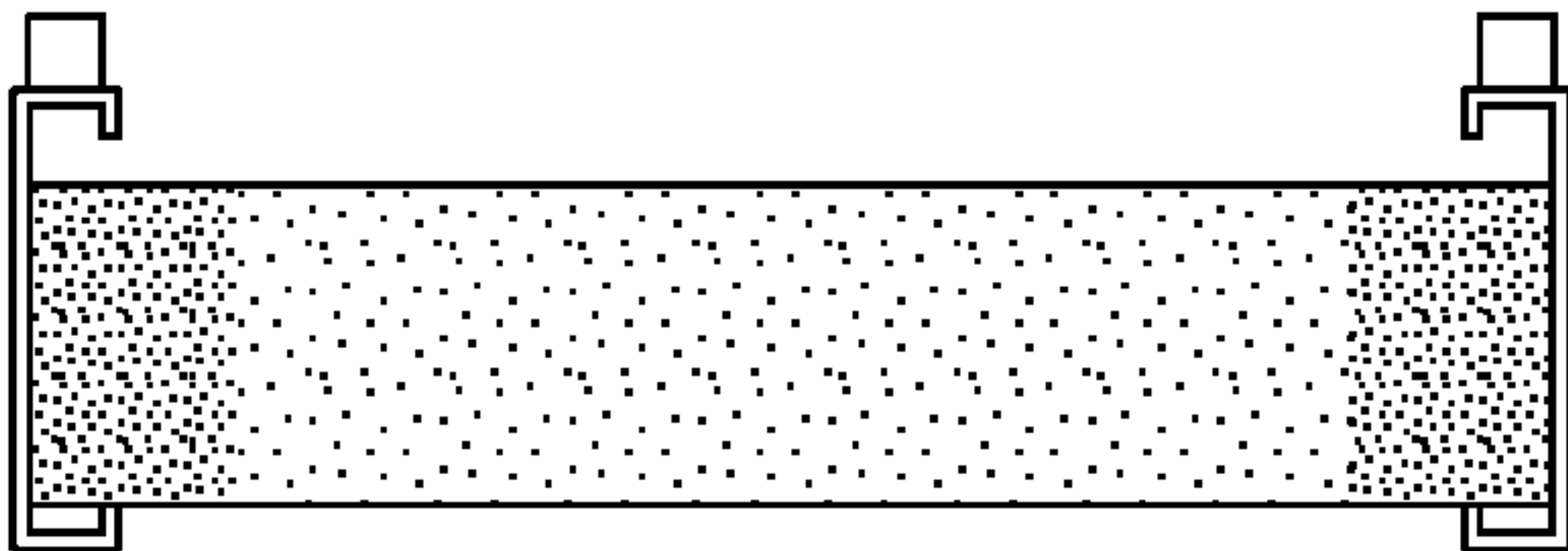


**Fig. 3**

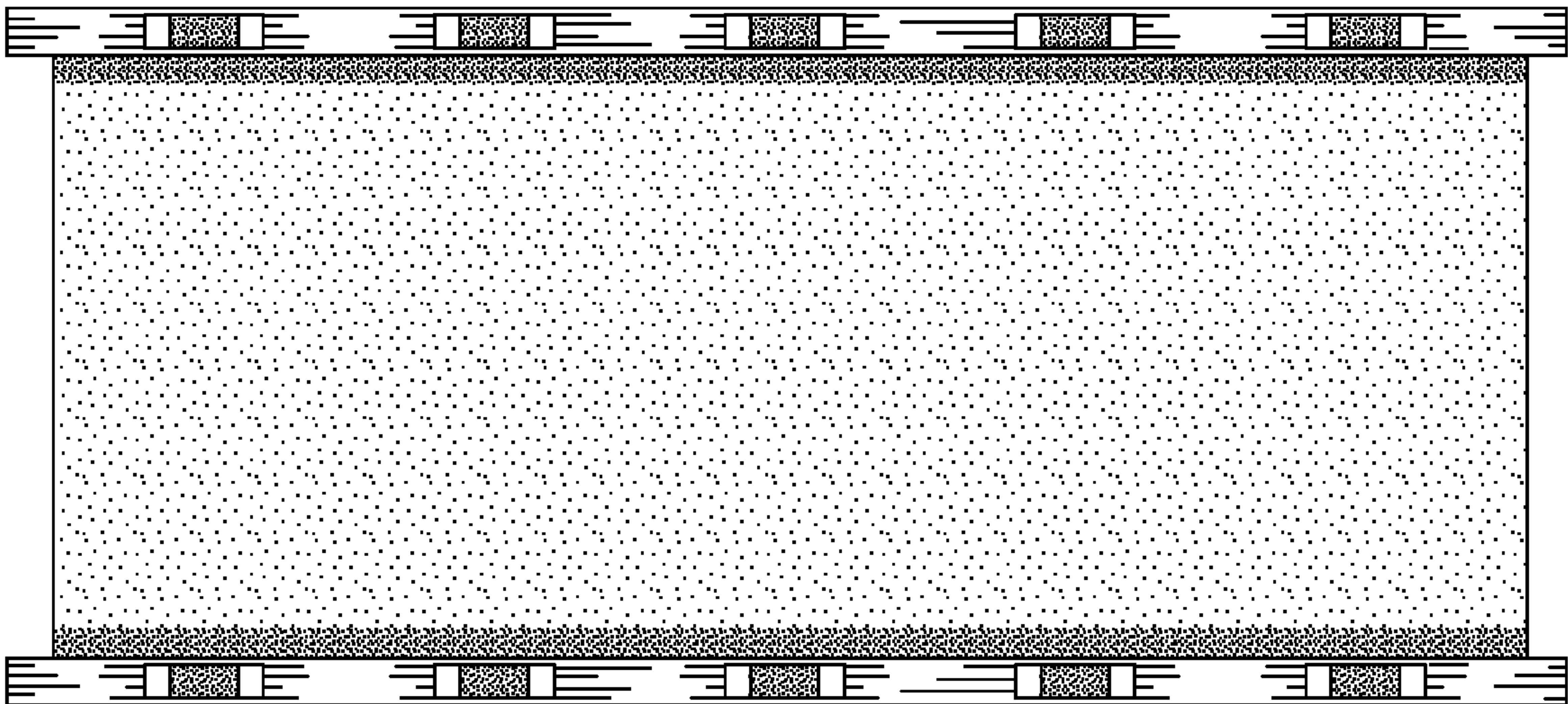




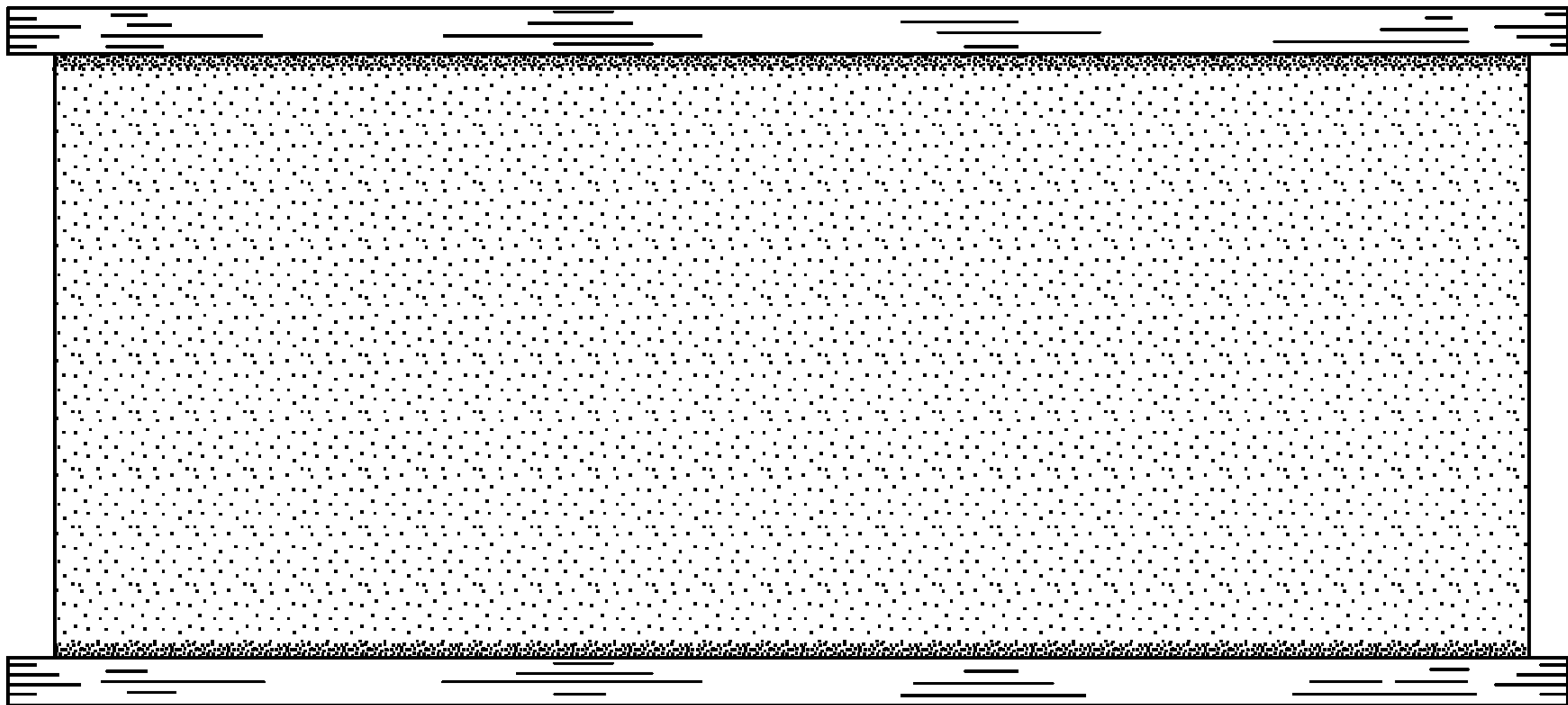
**Fig. 4**



**Fig. 5**

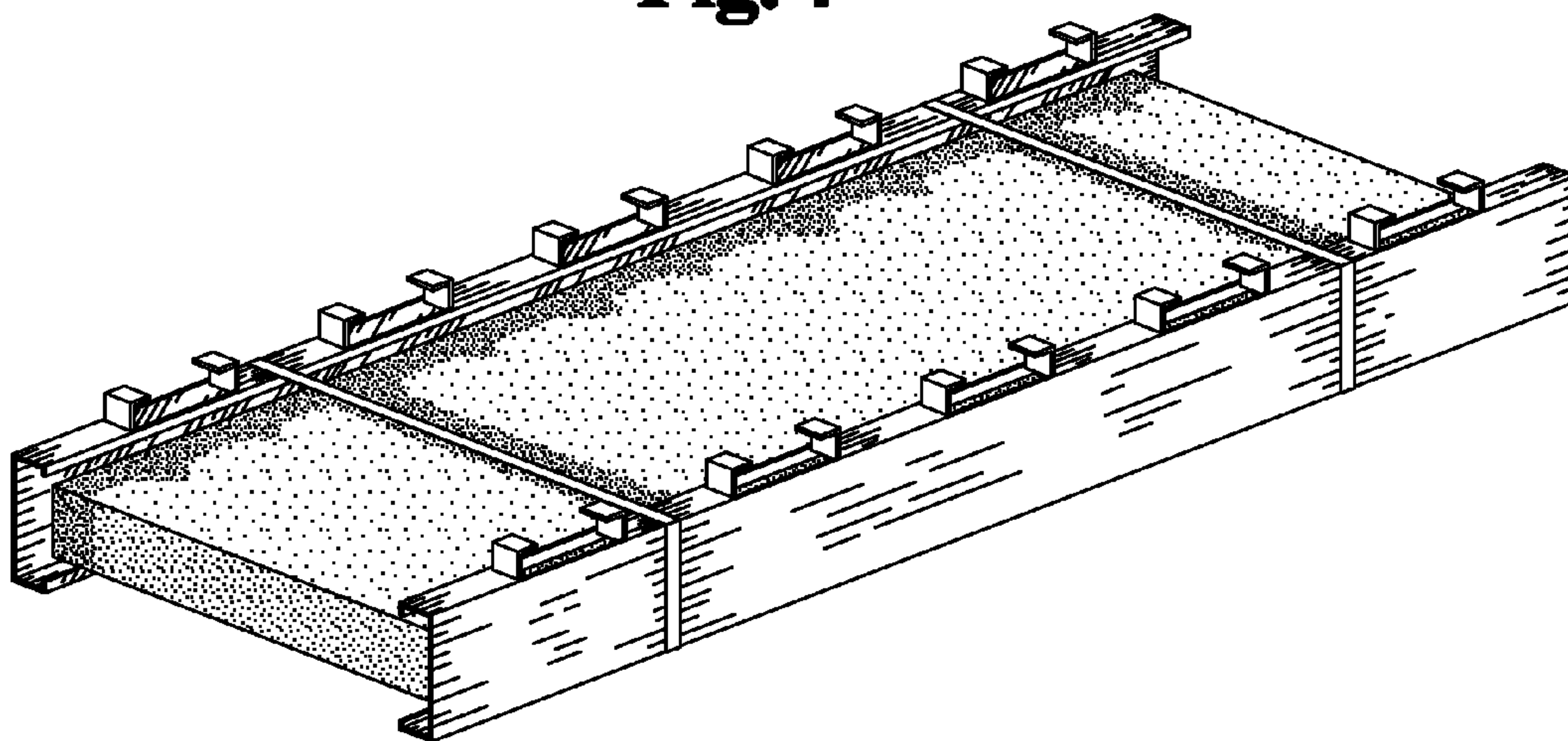


**Fig. 6**

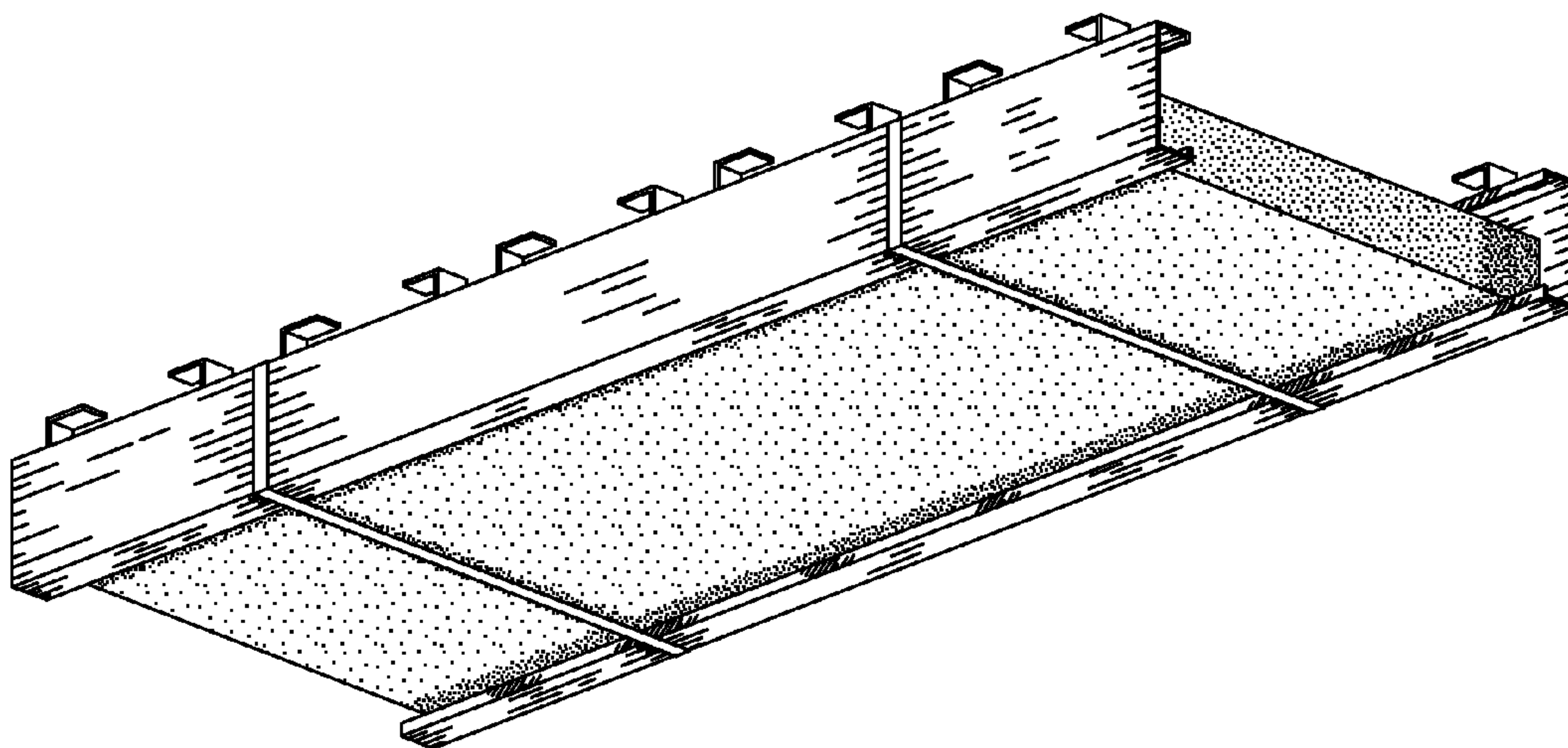




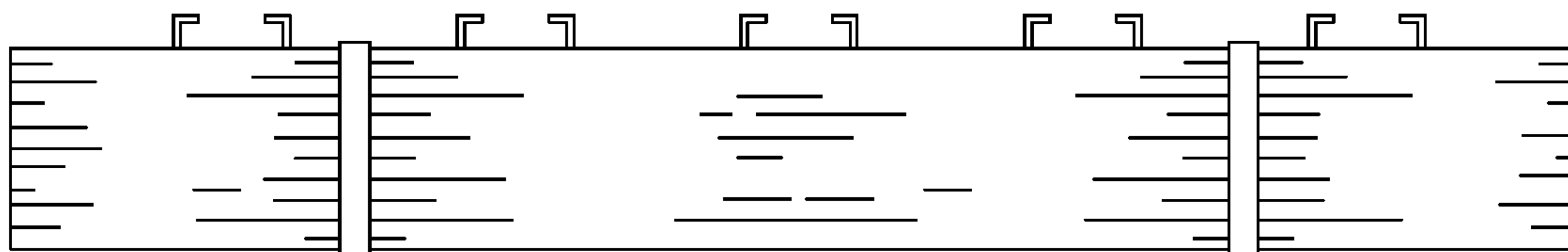
**Fig. 7**



**Fig. 8**

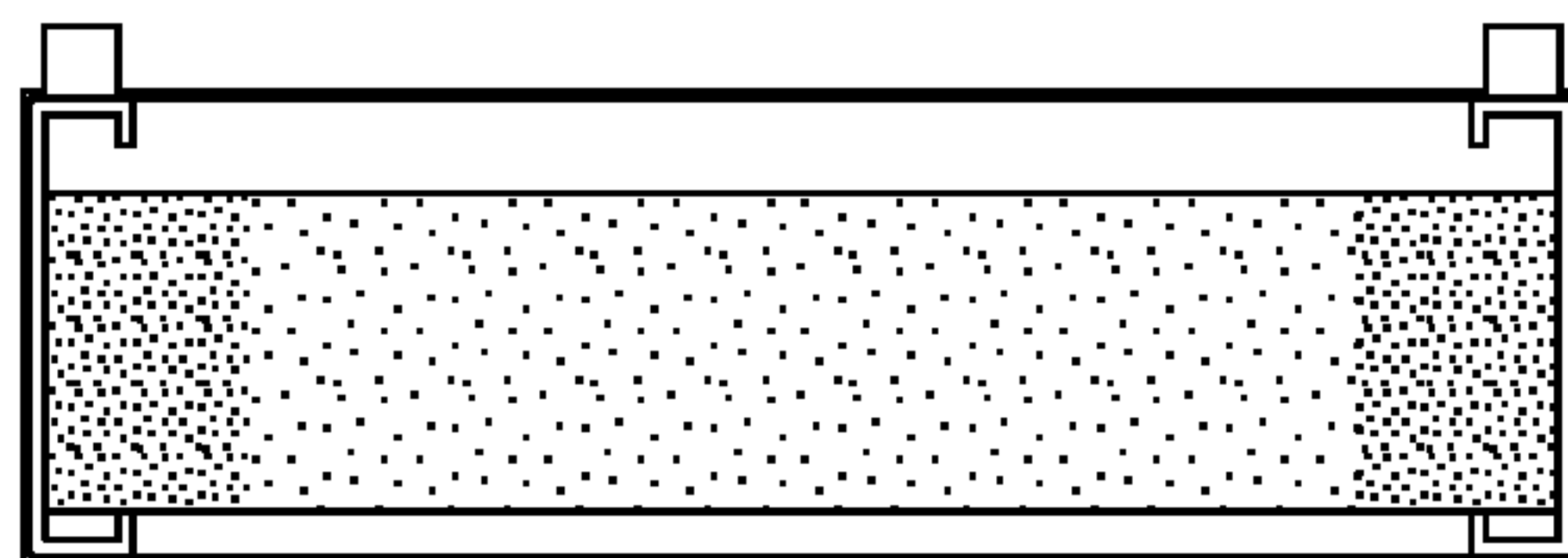


**Fig. 9**

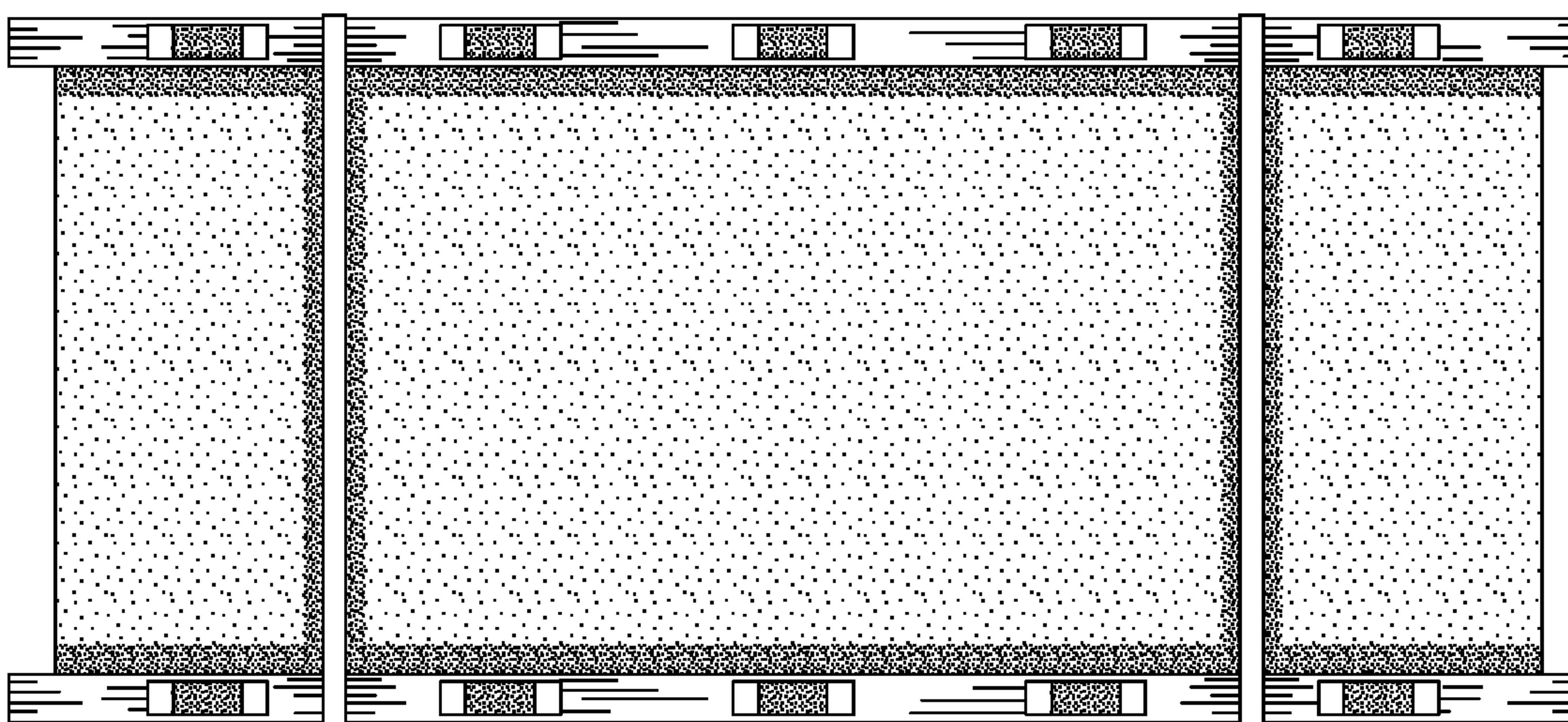




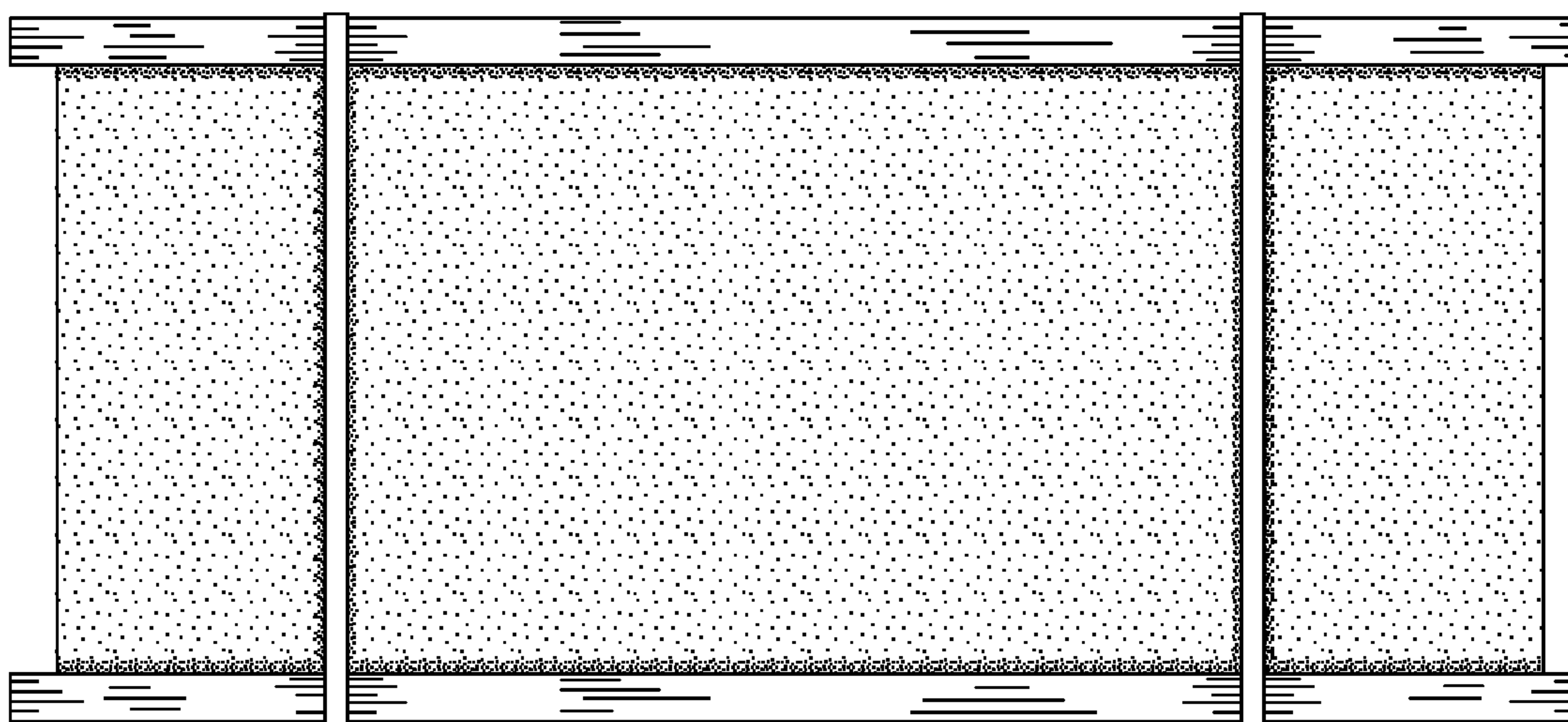
**Fig. 10**



**Fig. 11**

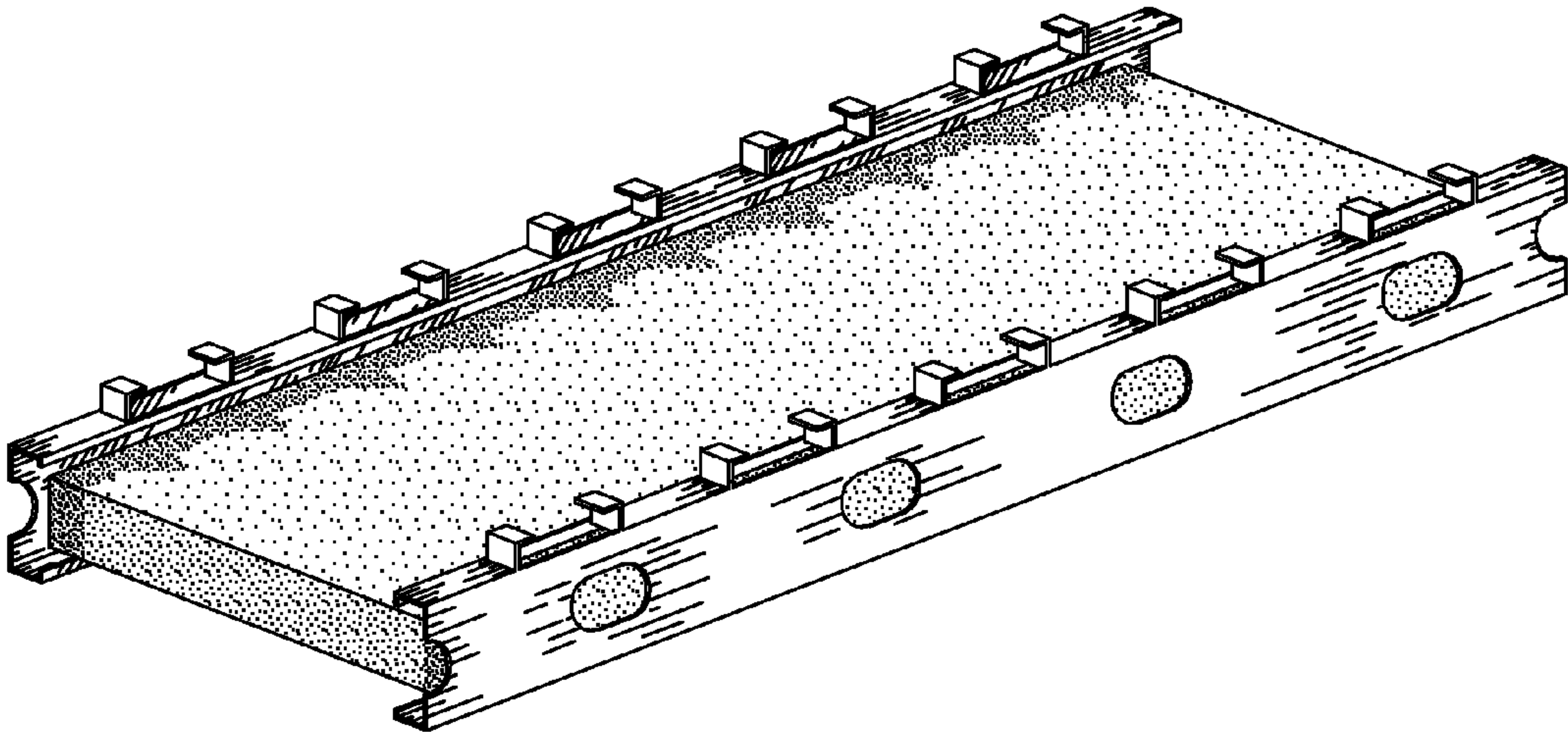


**Fig. 12**

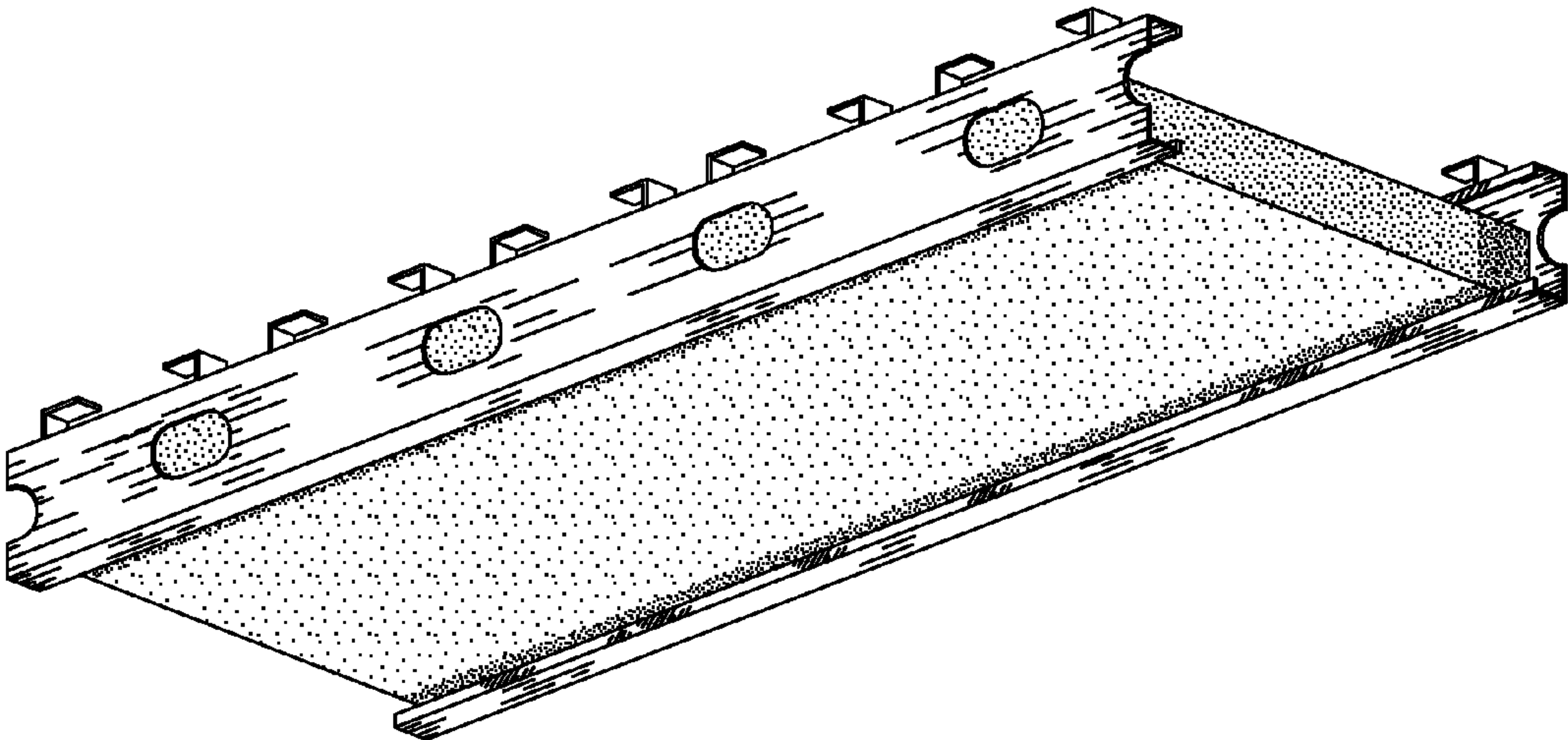




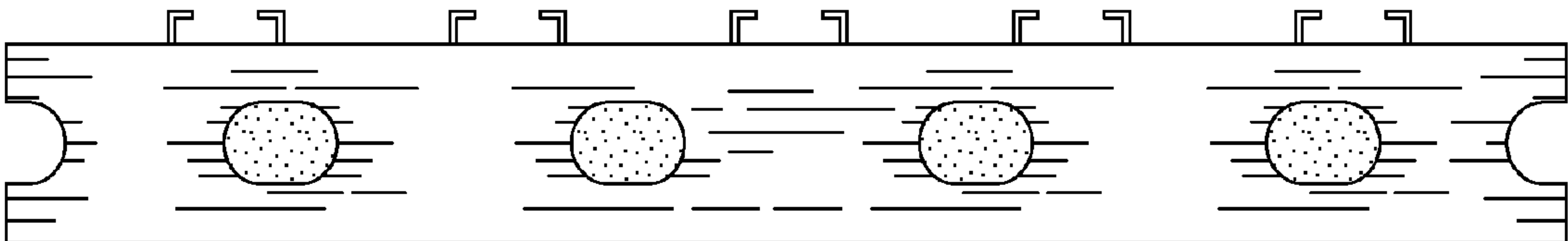
**Fig. 13**



**Fig. 14**

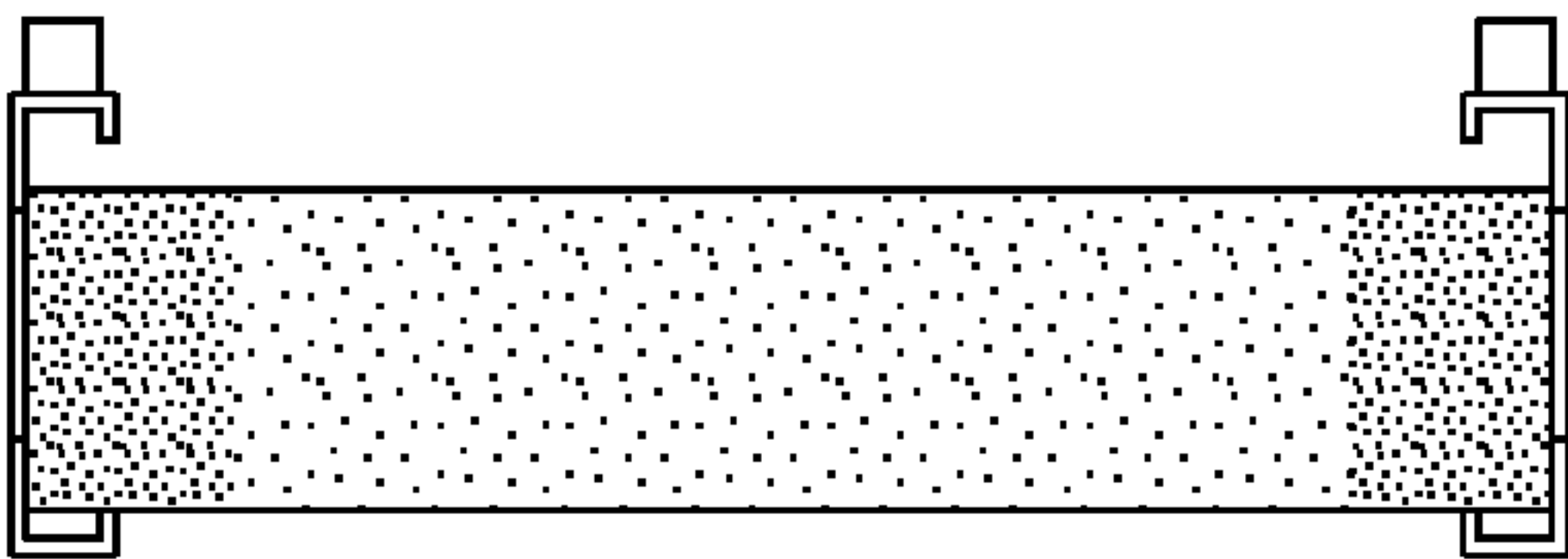


**Fig. 15**

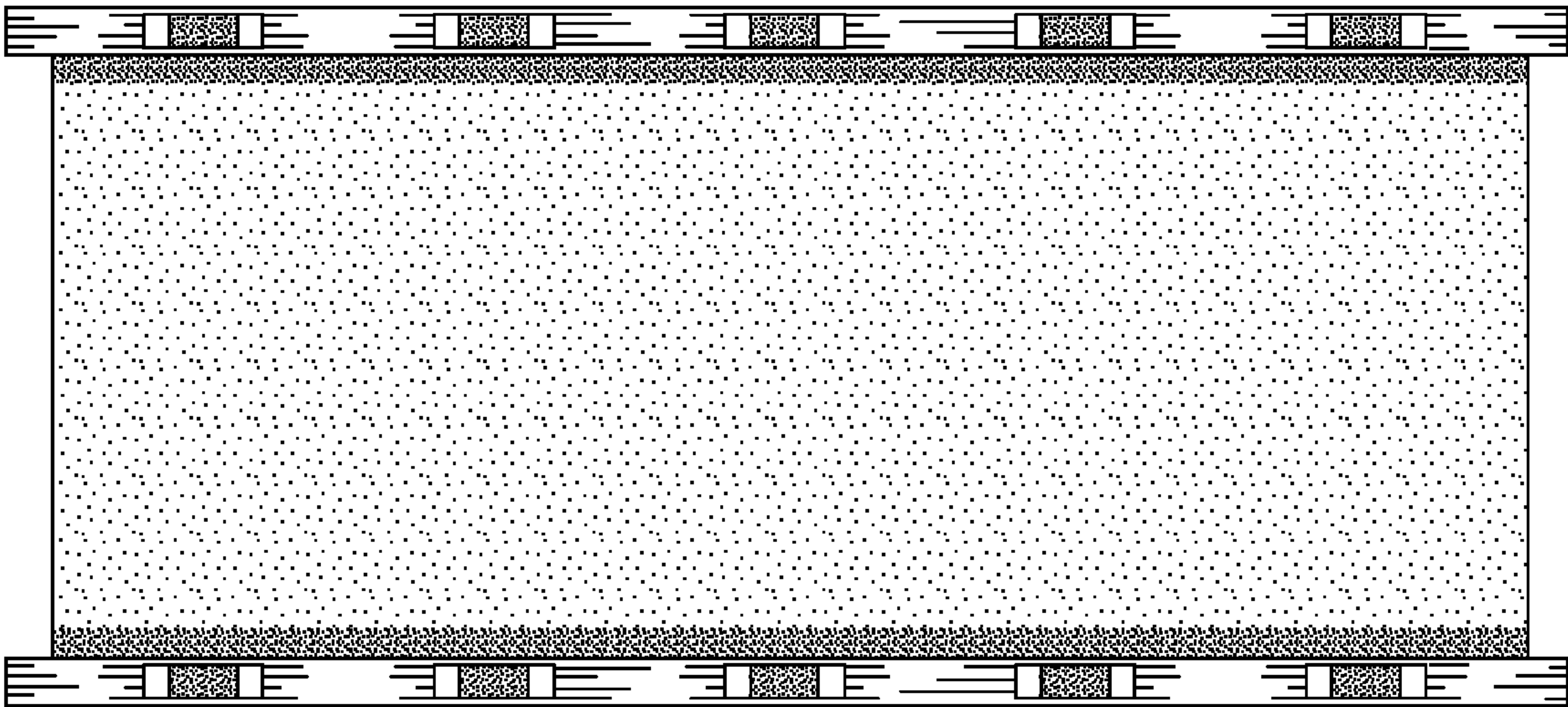




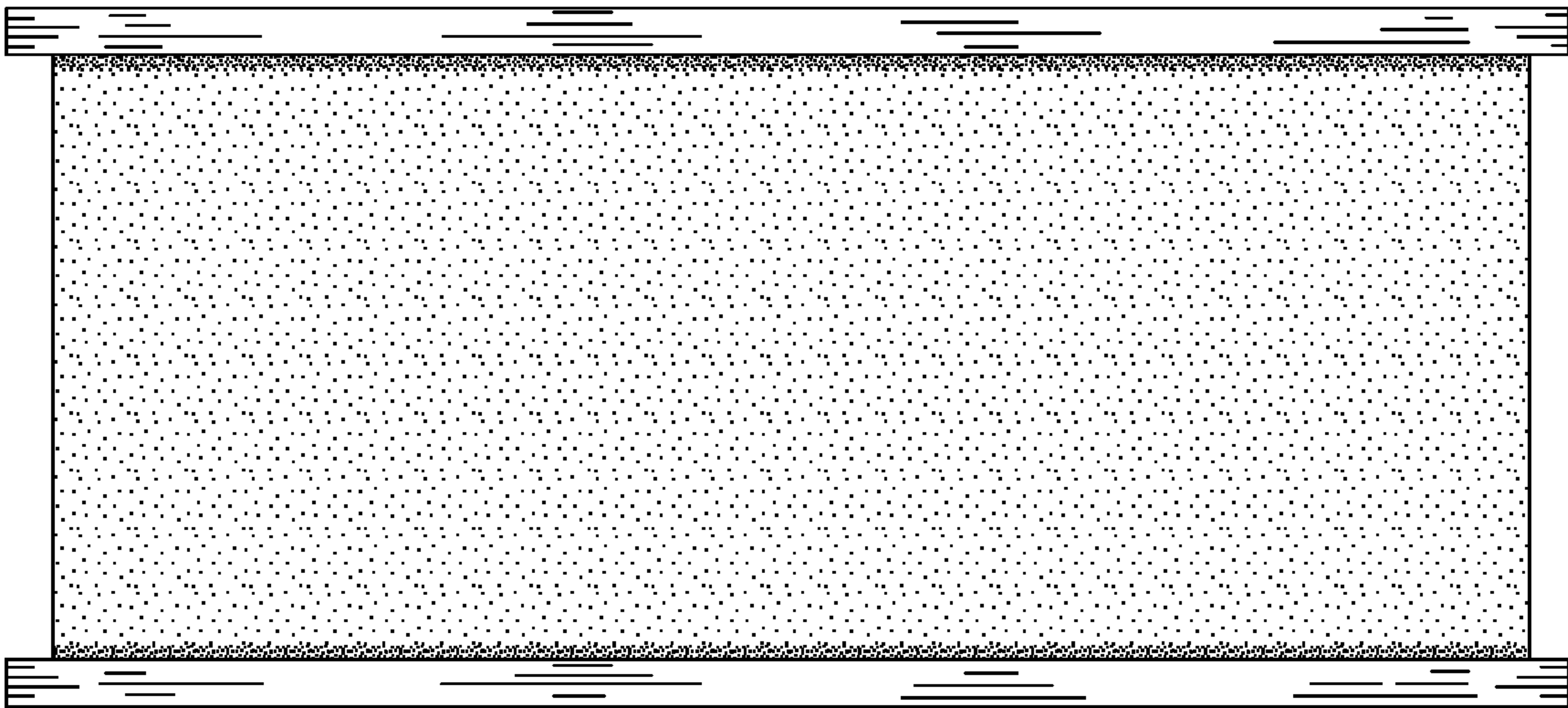
**Fig. 16**



**Fig. 17**

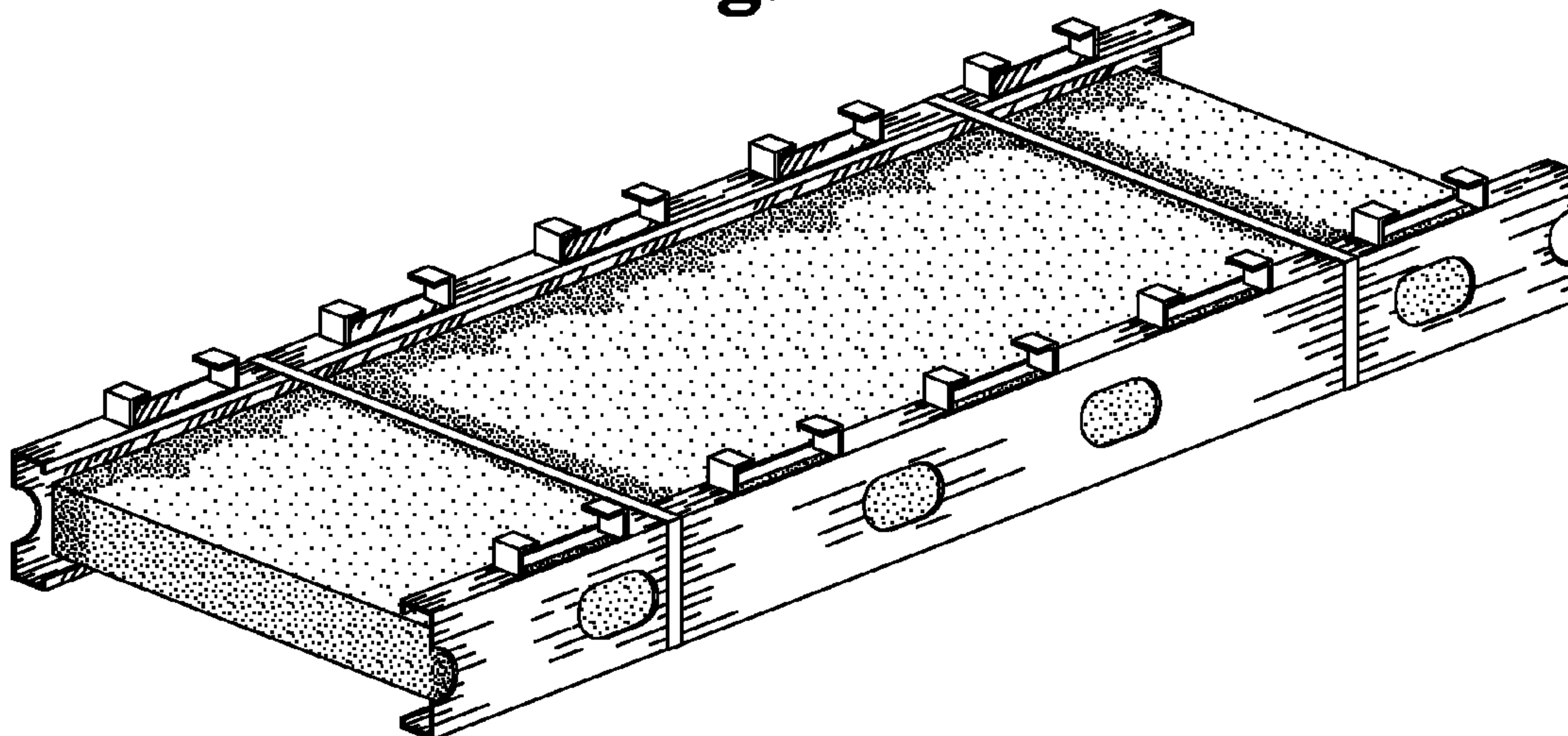


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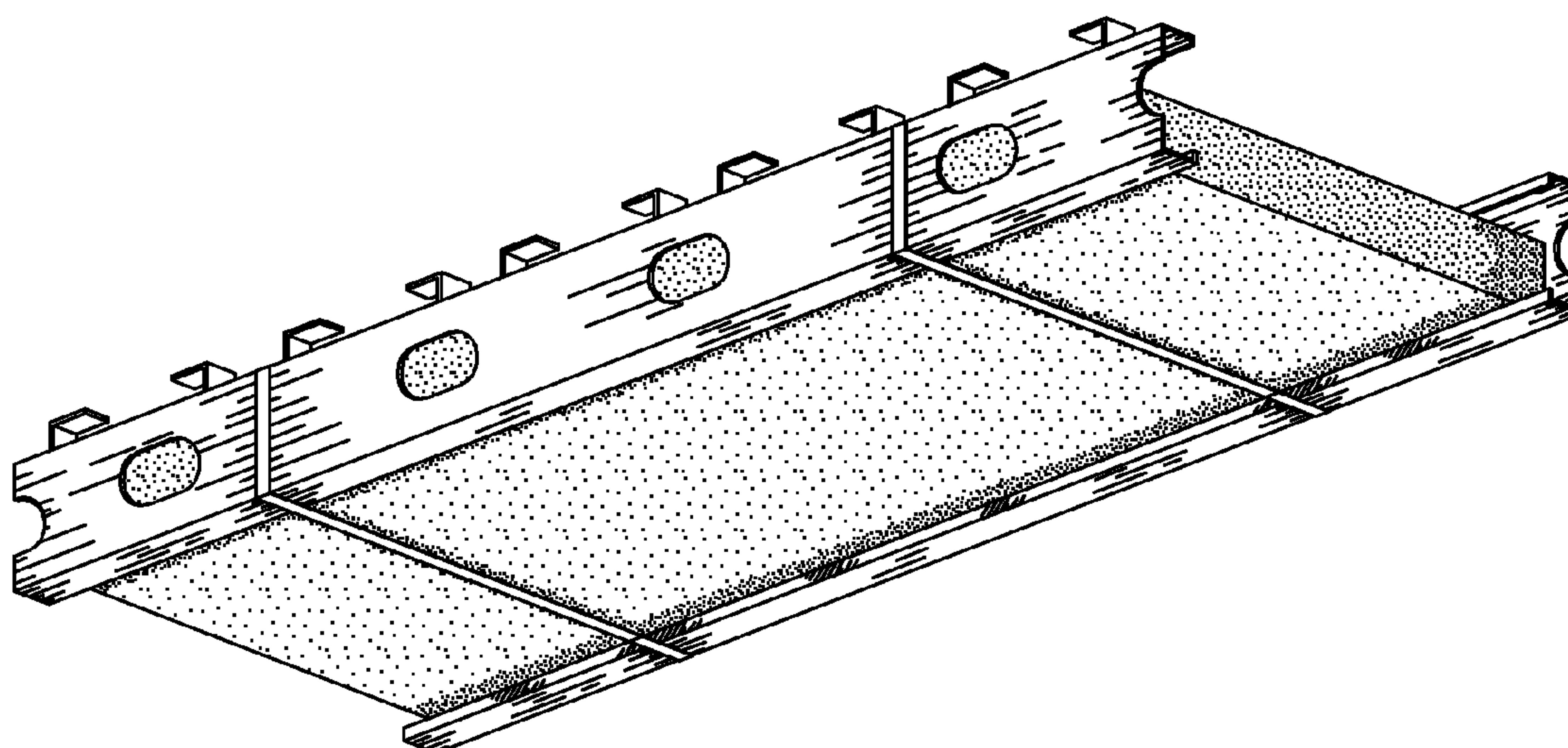




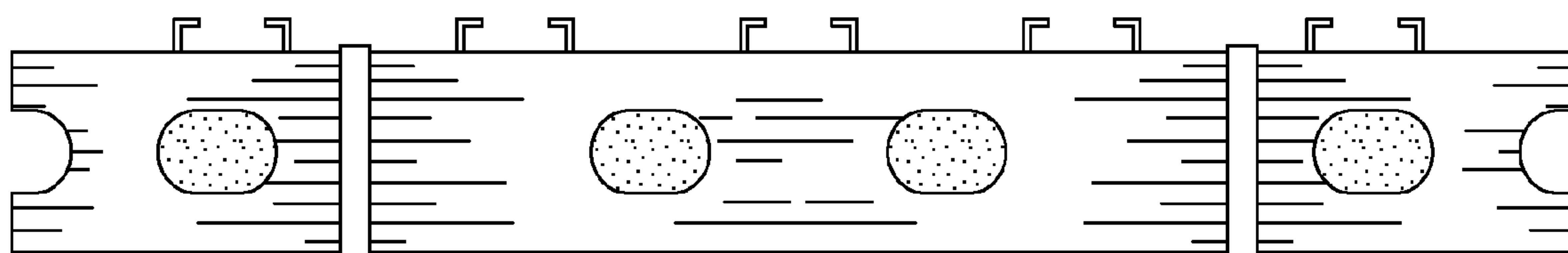
**Fig. 19**



**Fig. 20**

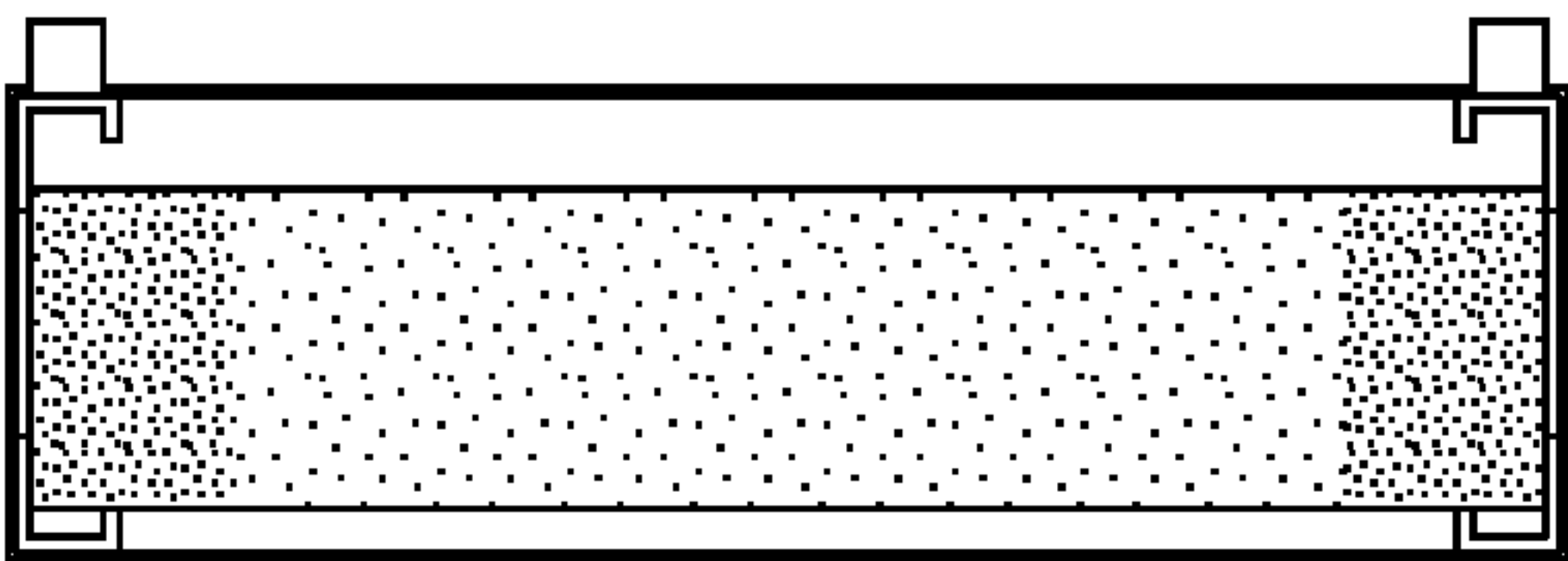


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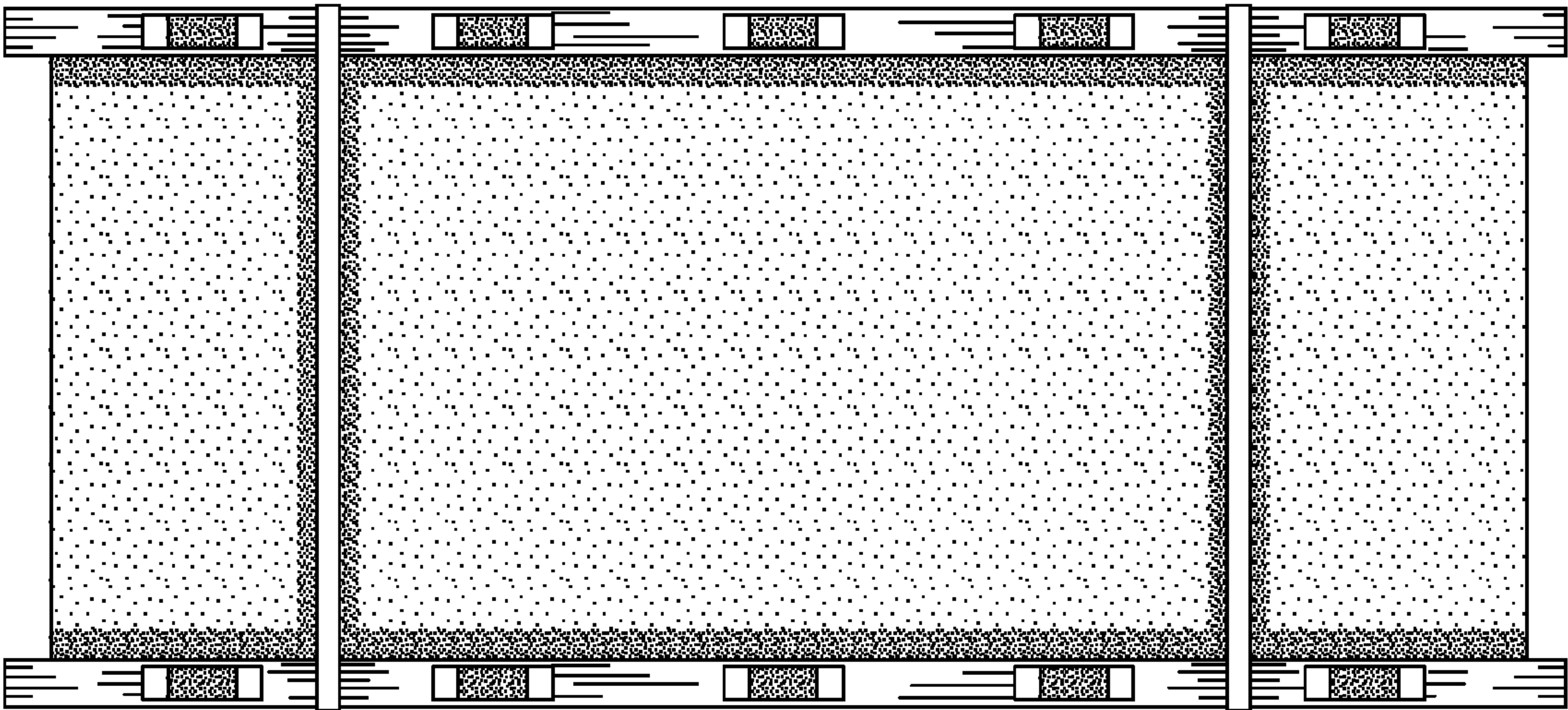




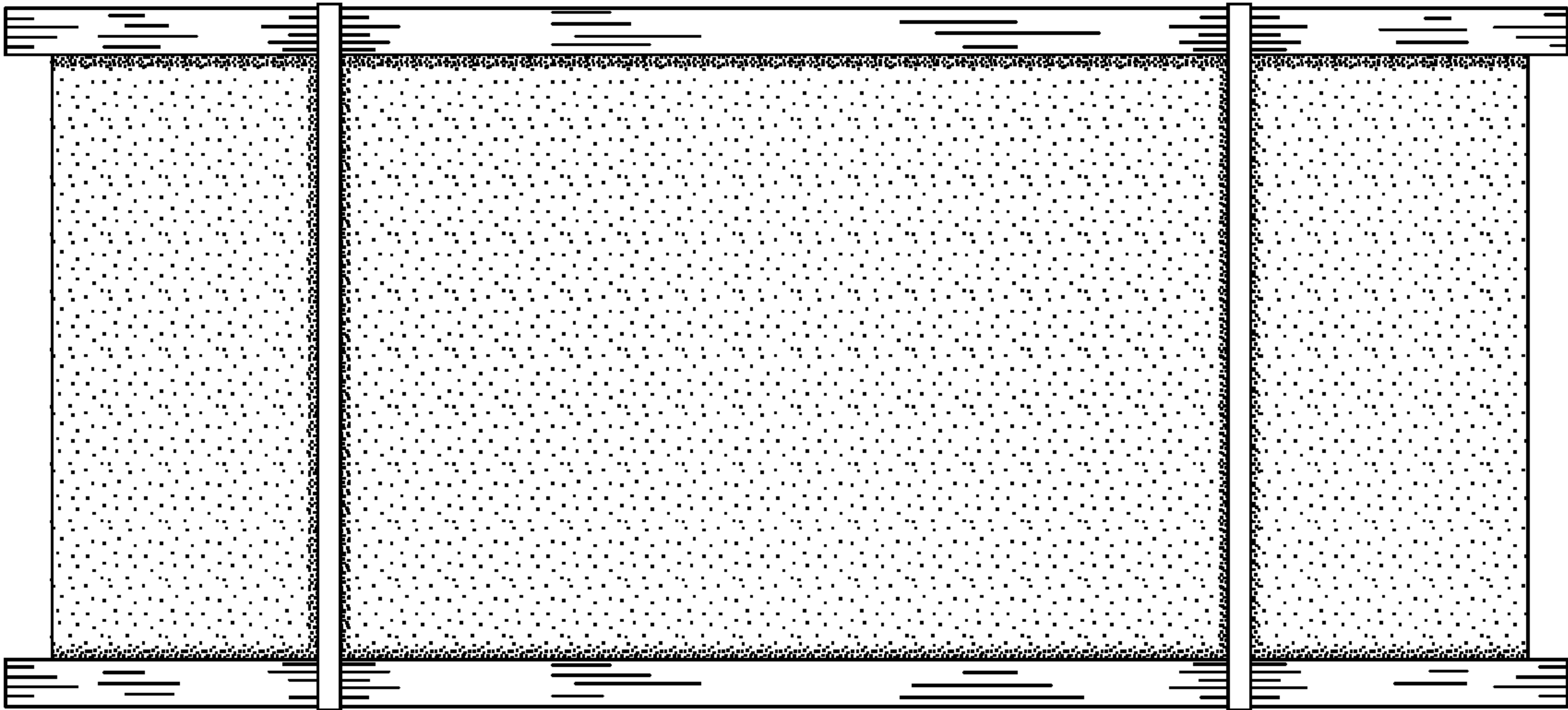
**Fig. 22**



**Fig. 23**

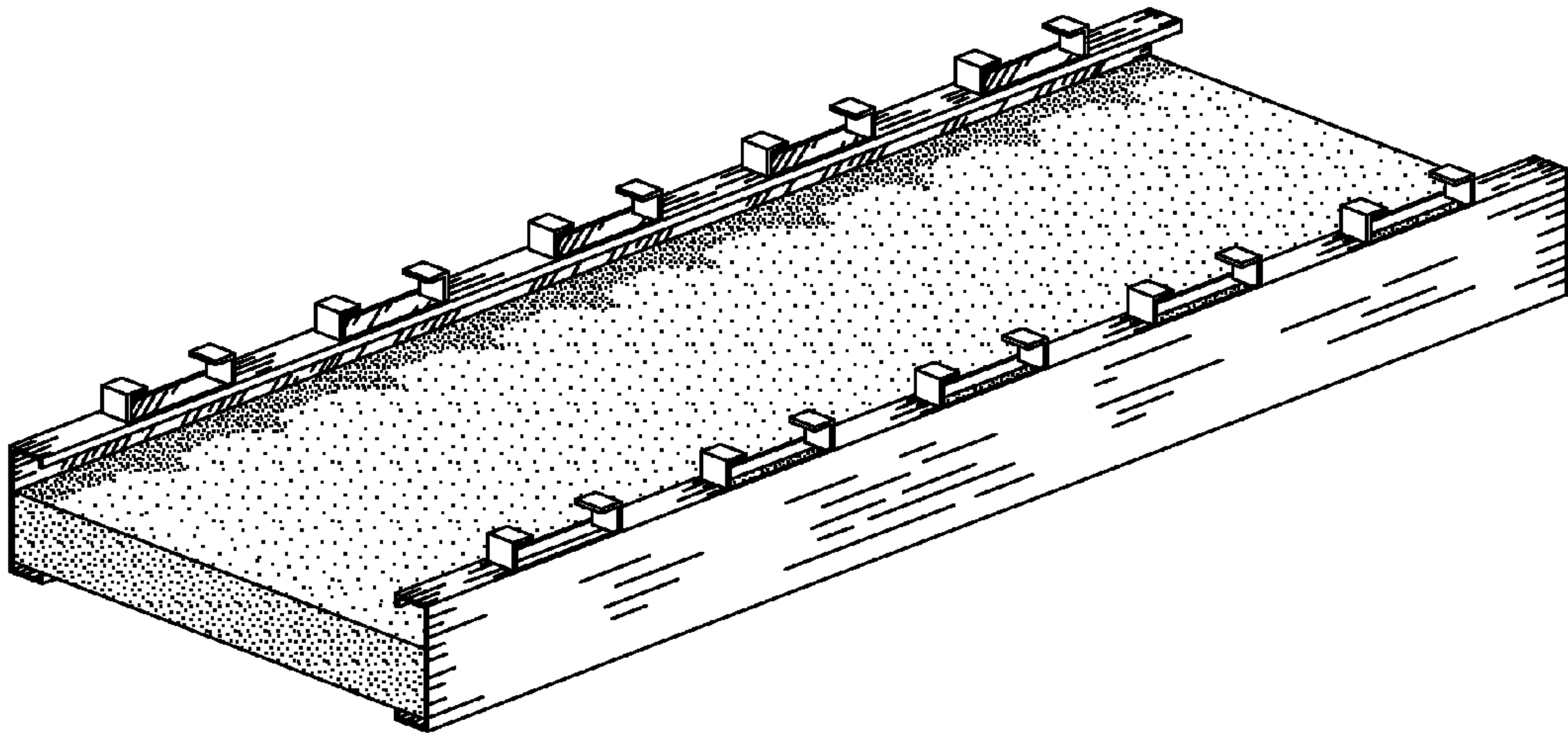


**Fig. 24**

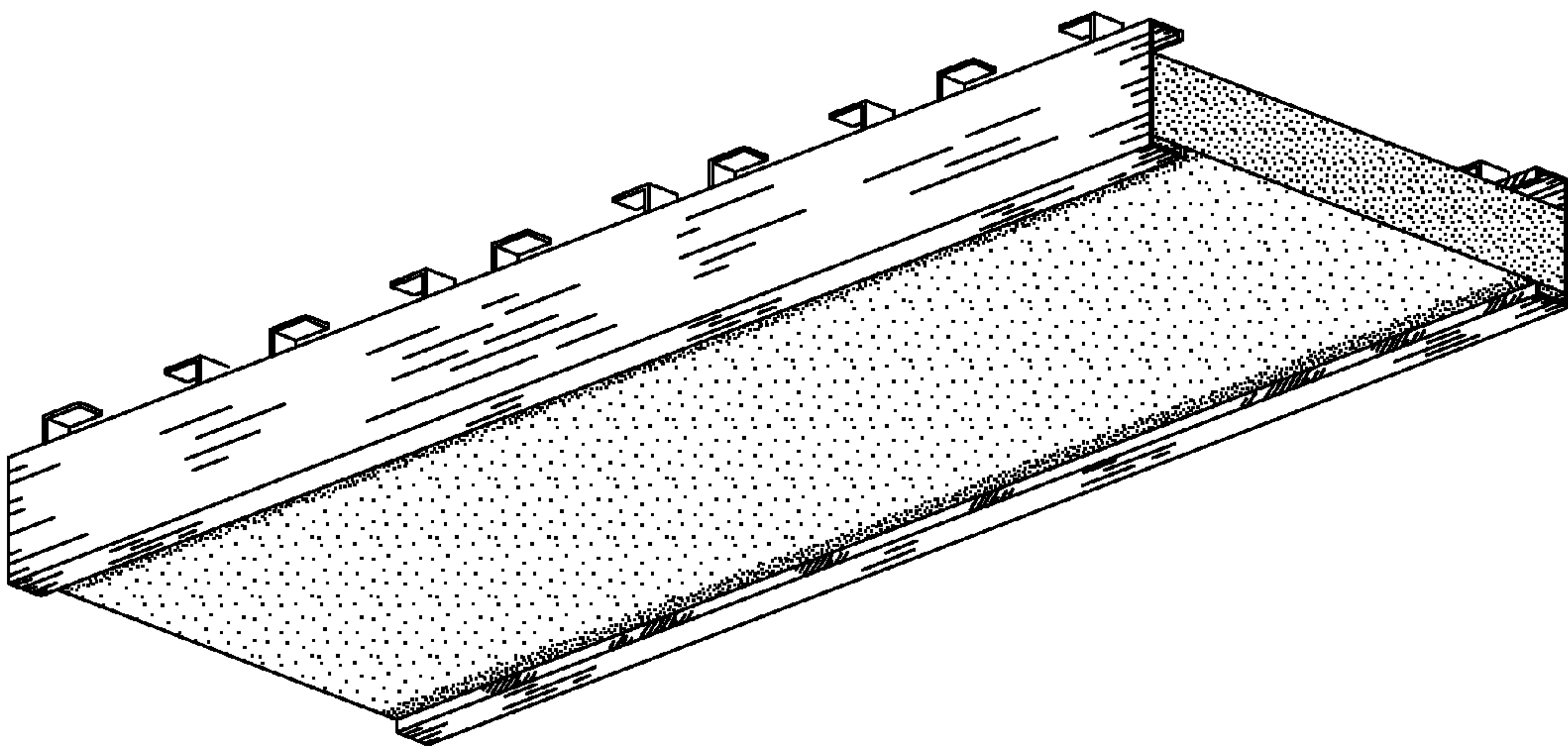




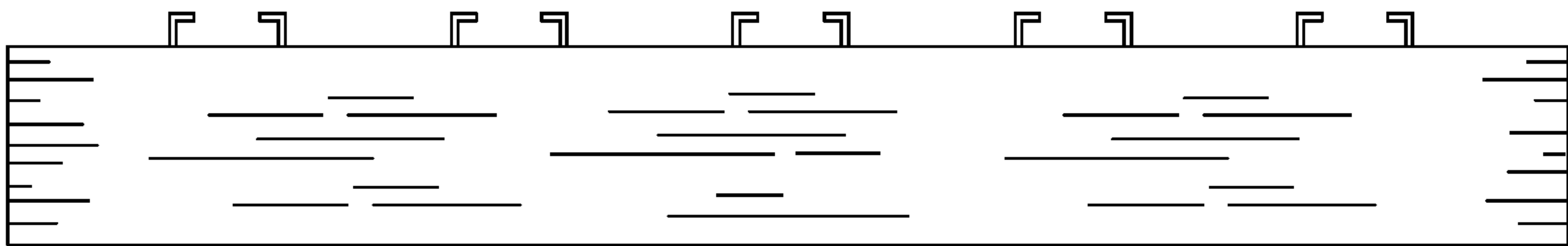
**Fig. 25**



**Fig. 26**

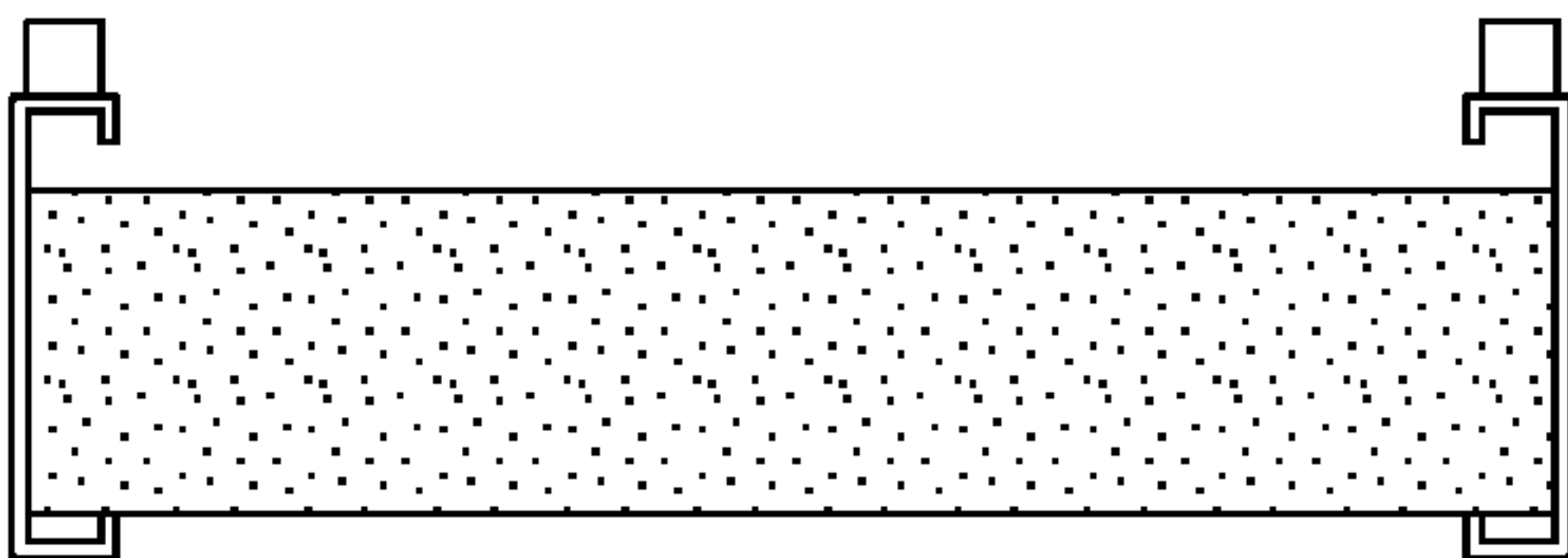


**Fig. 27**

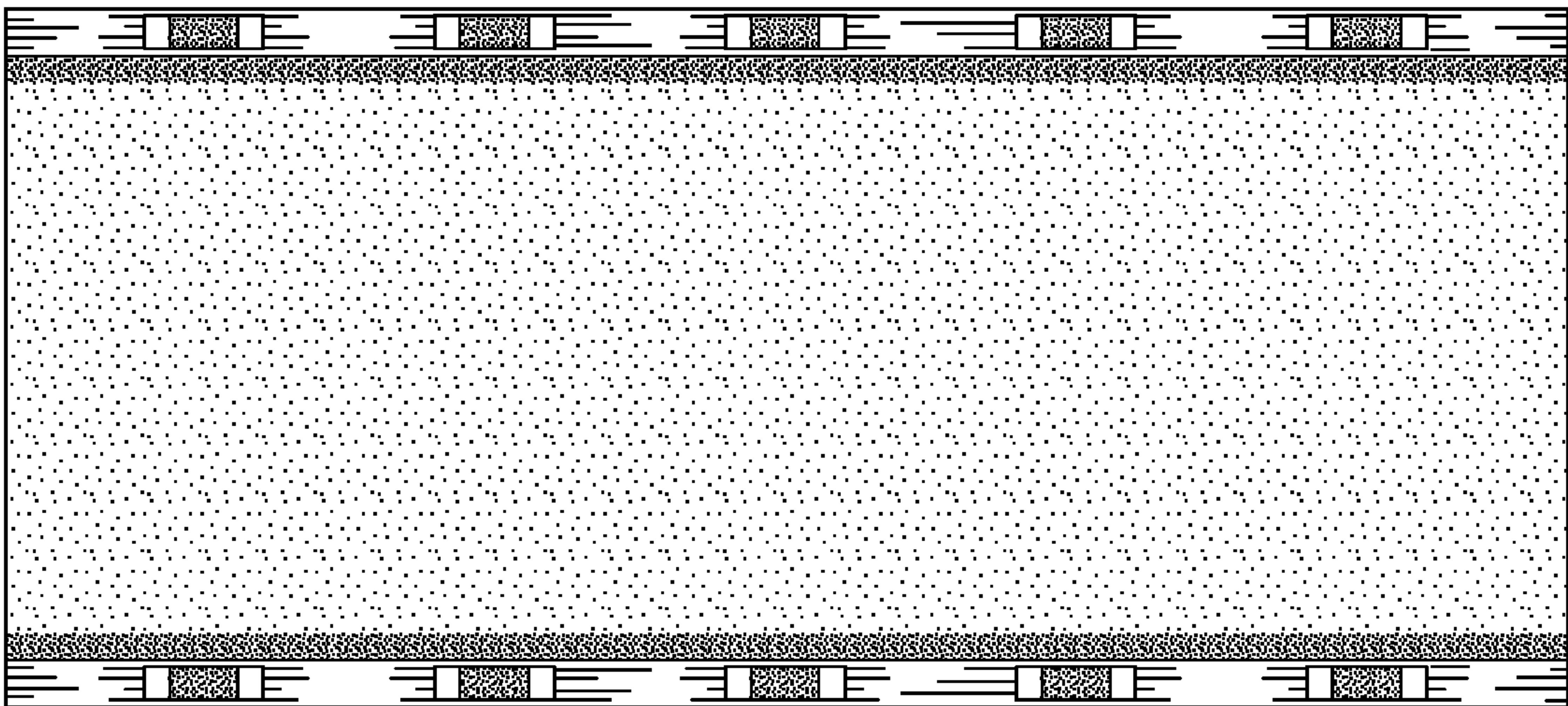




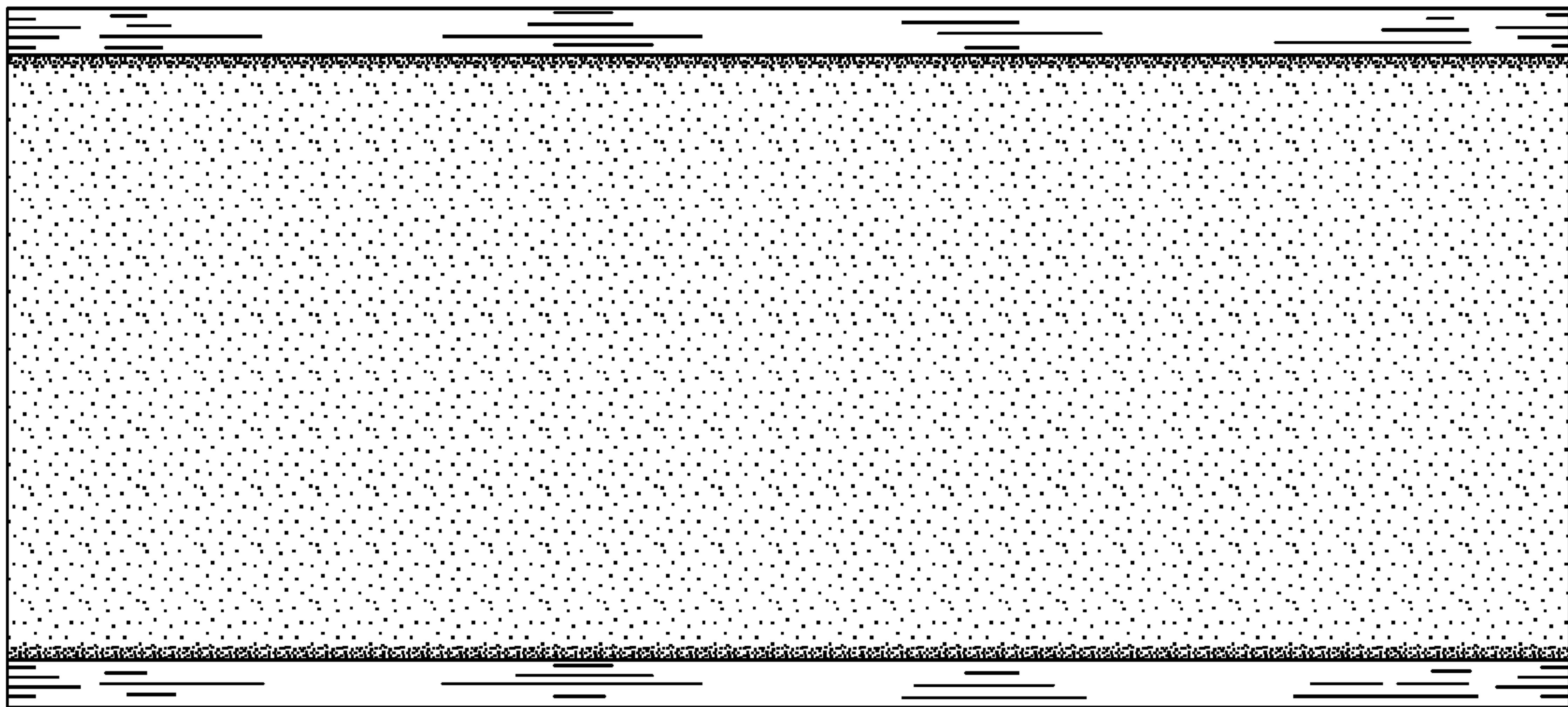
**Fig. 28**



**Fig. 29**

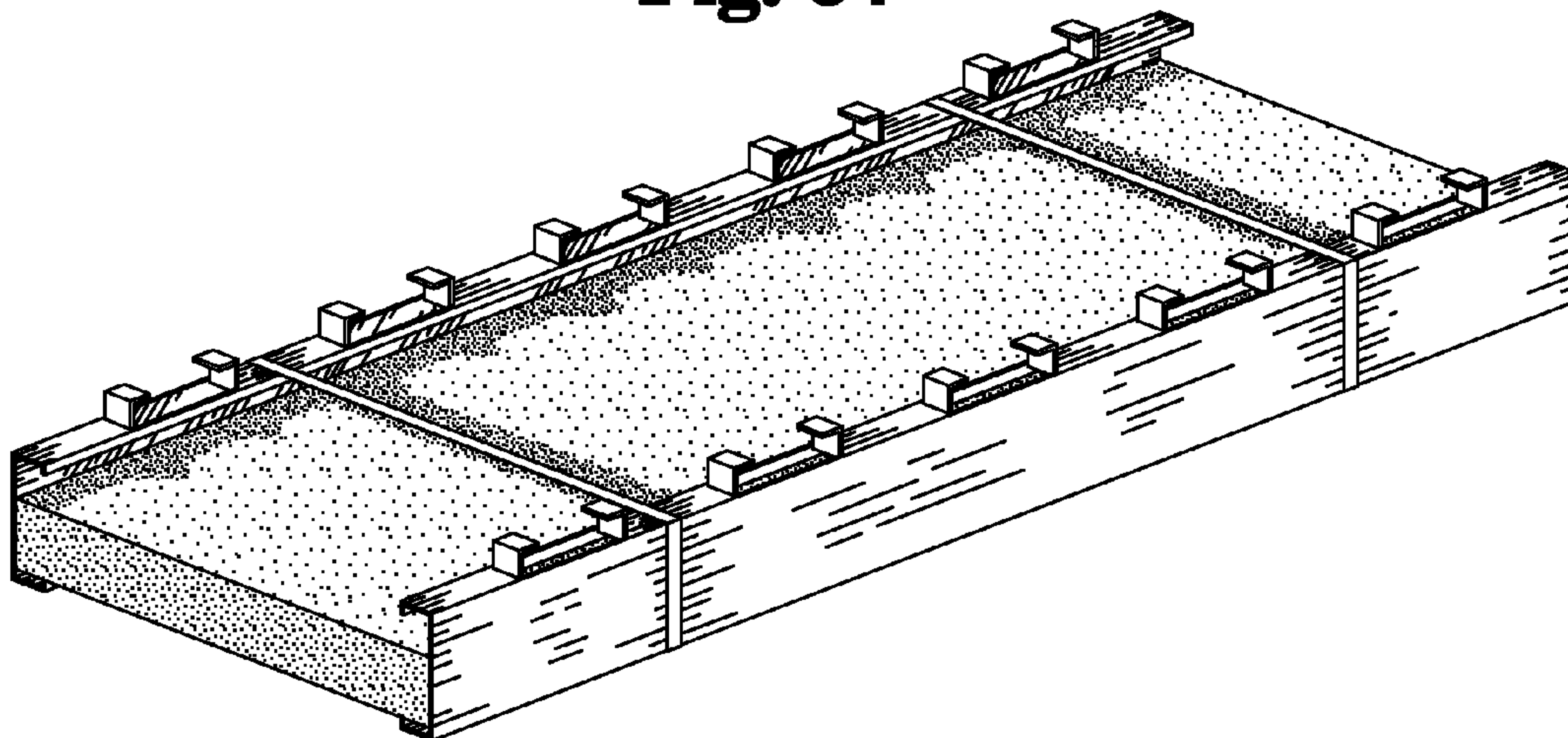


**Fig. 30**

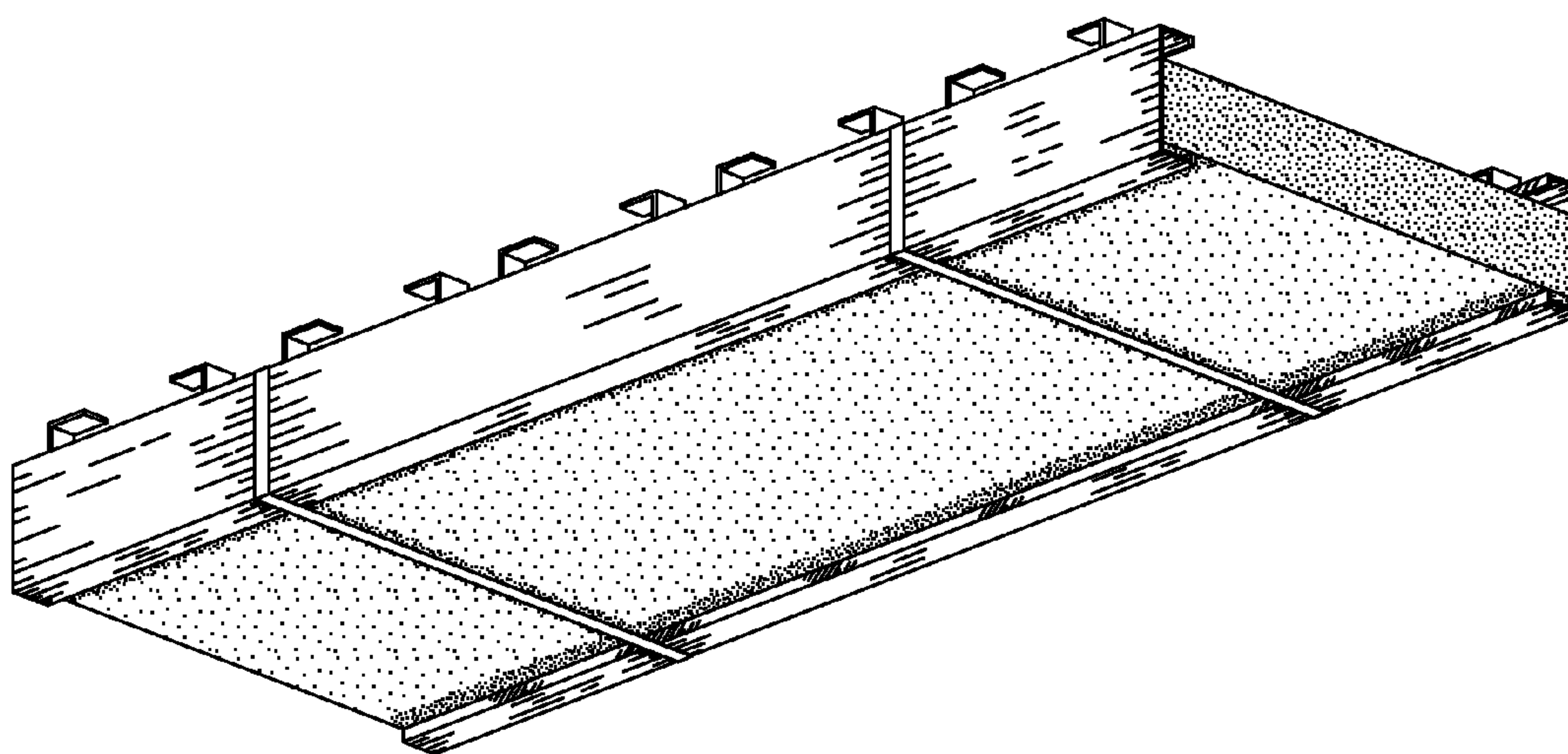




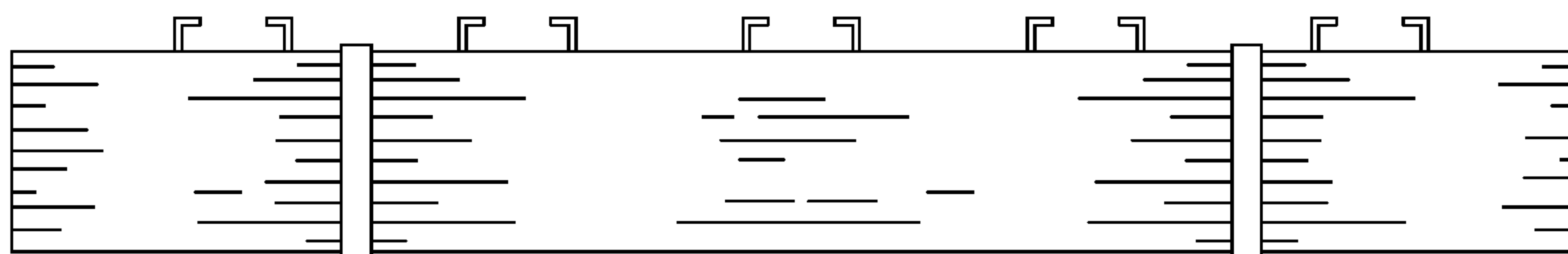
**Fig. 31**



**Fig. 32**

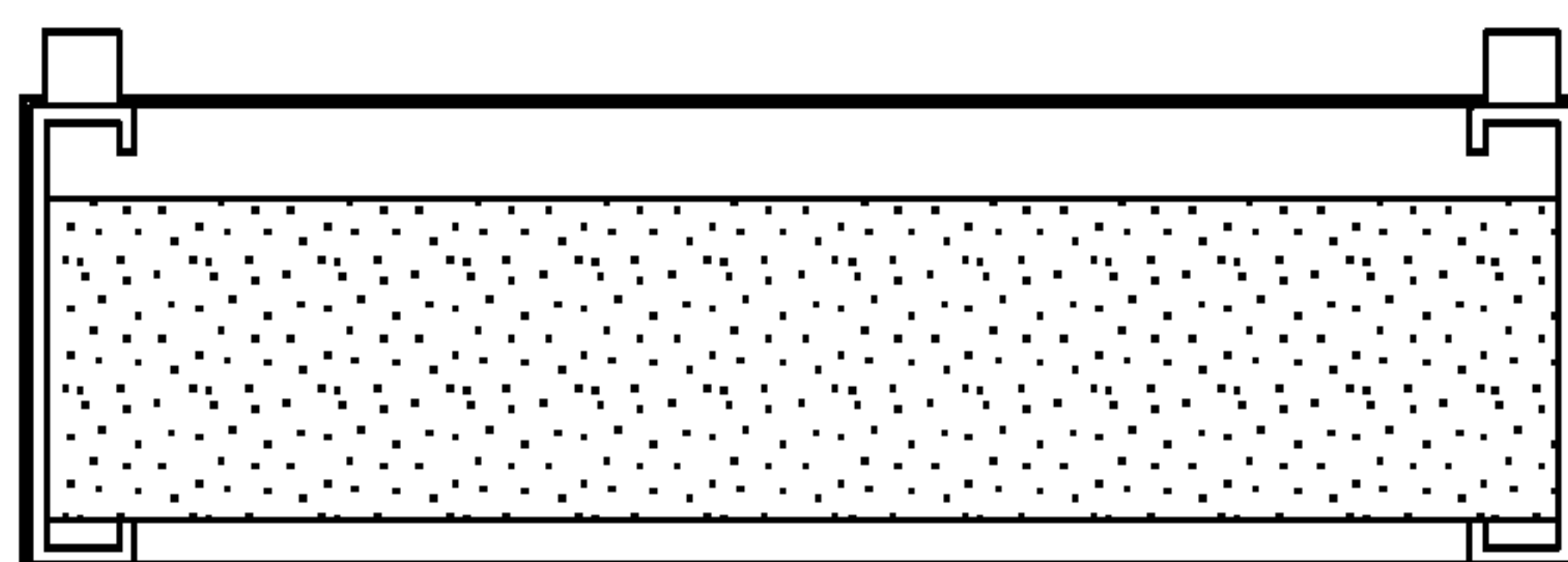


**Fig. 33**

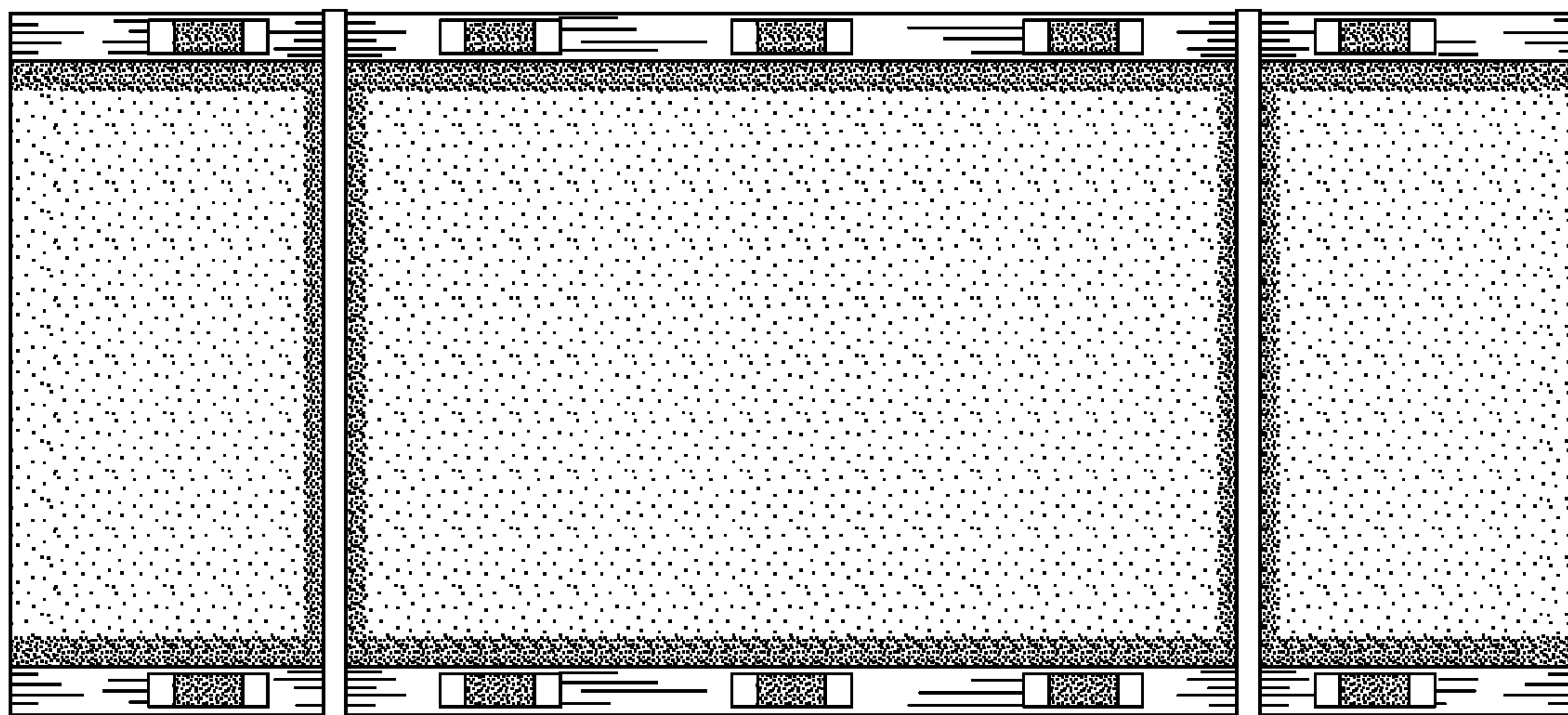




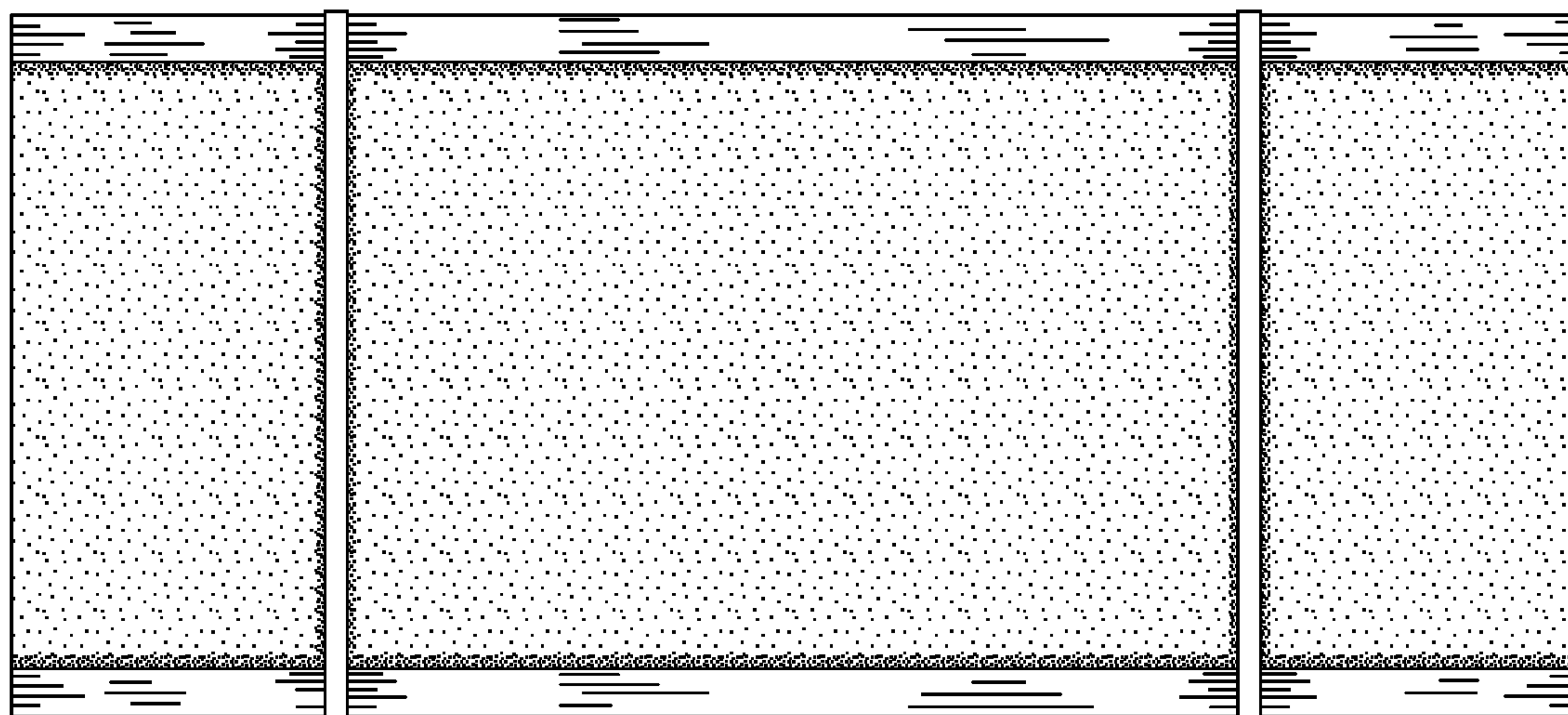
**Fig. 34**



**Fig. 35**

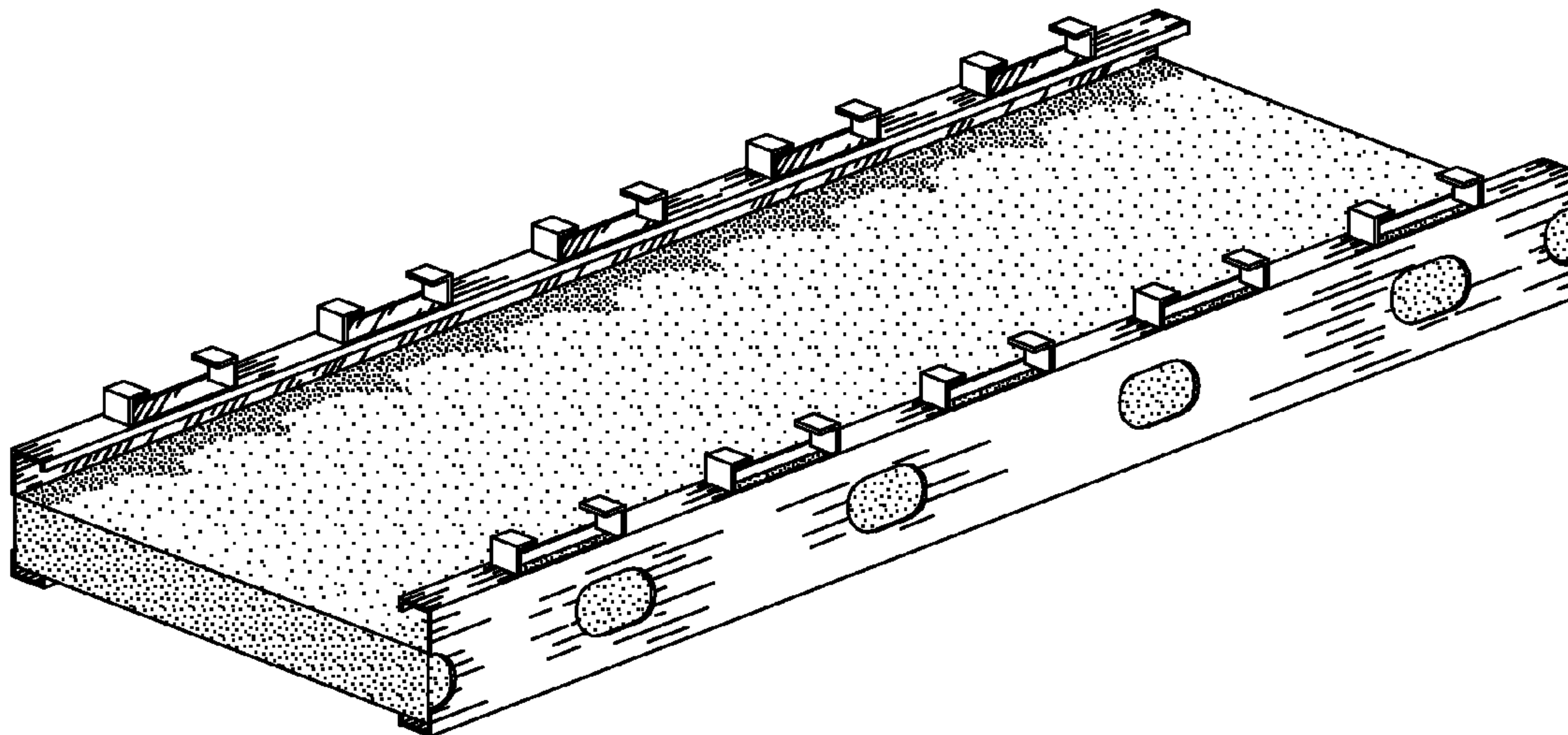


**Fig. 36**

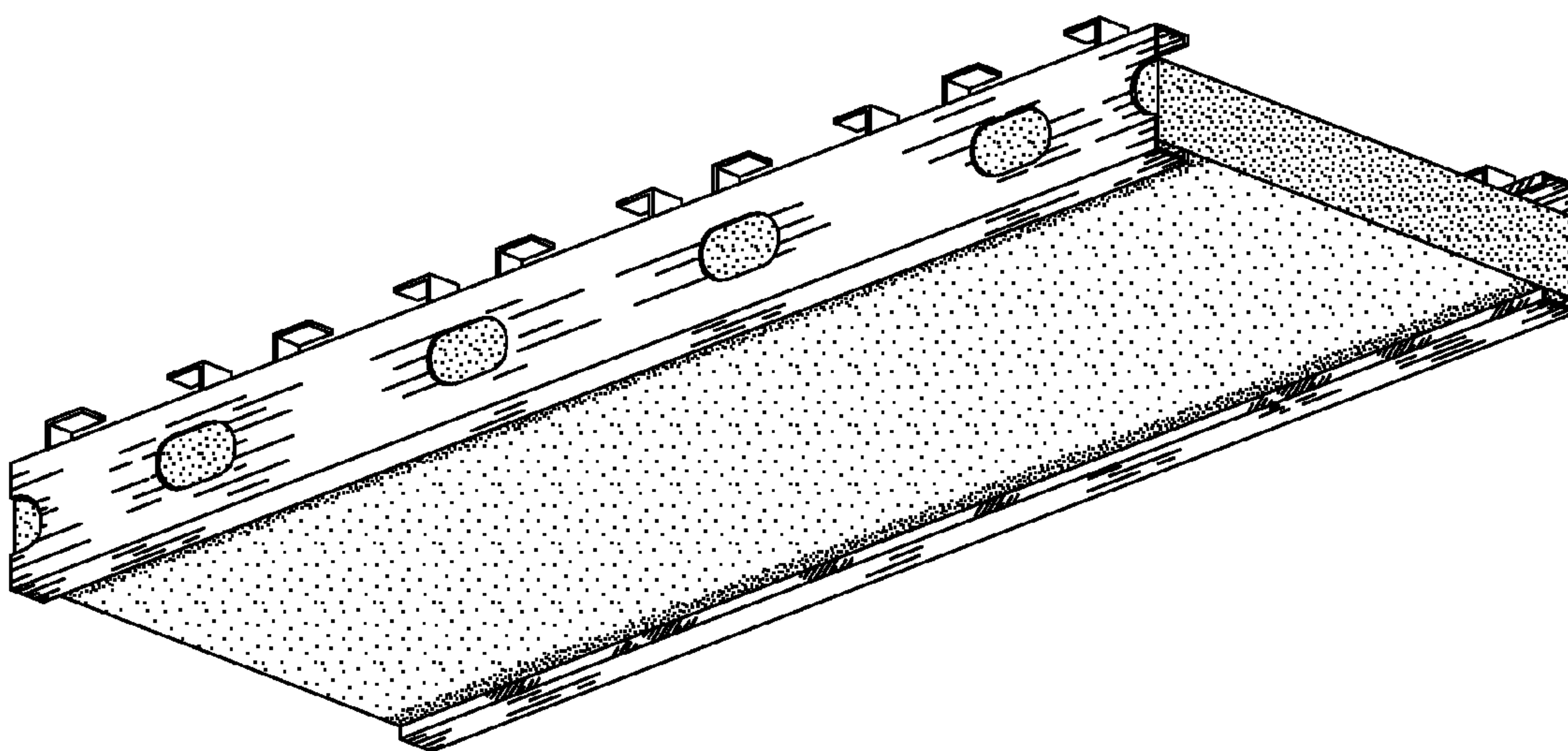




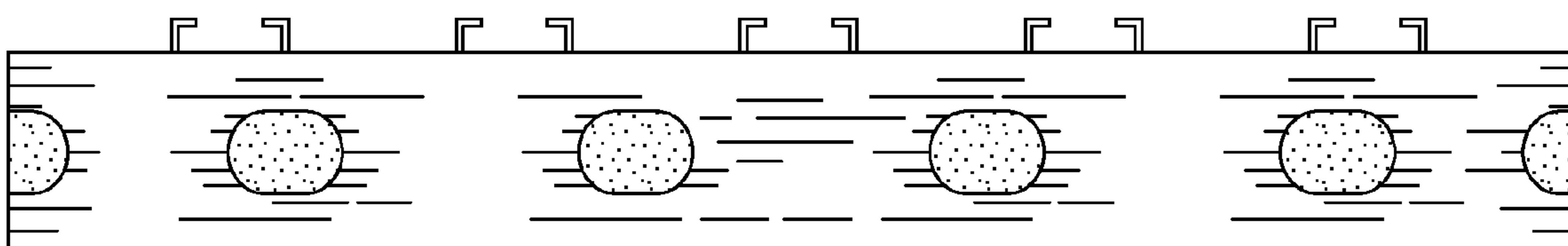
**Fig. 37**



**Fig. 38**

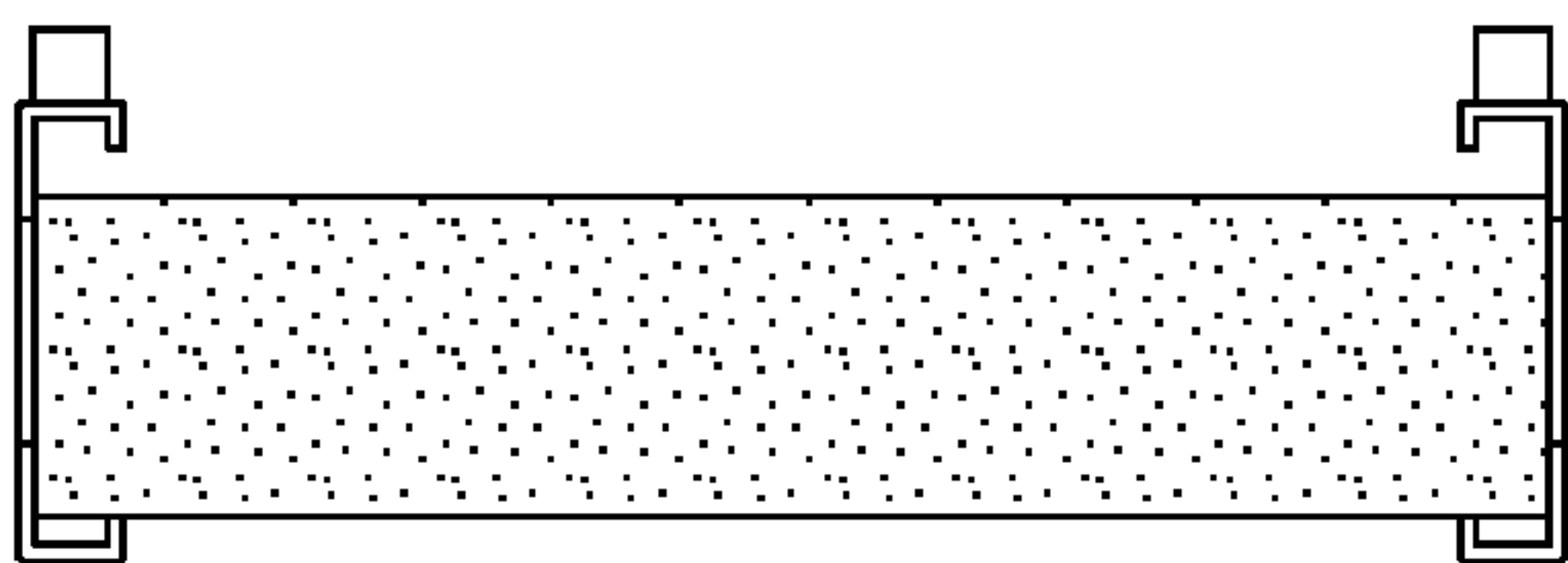


**Fig. 39**

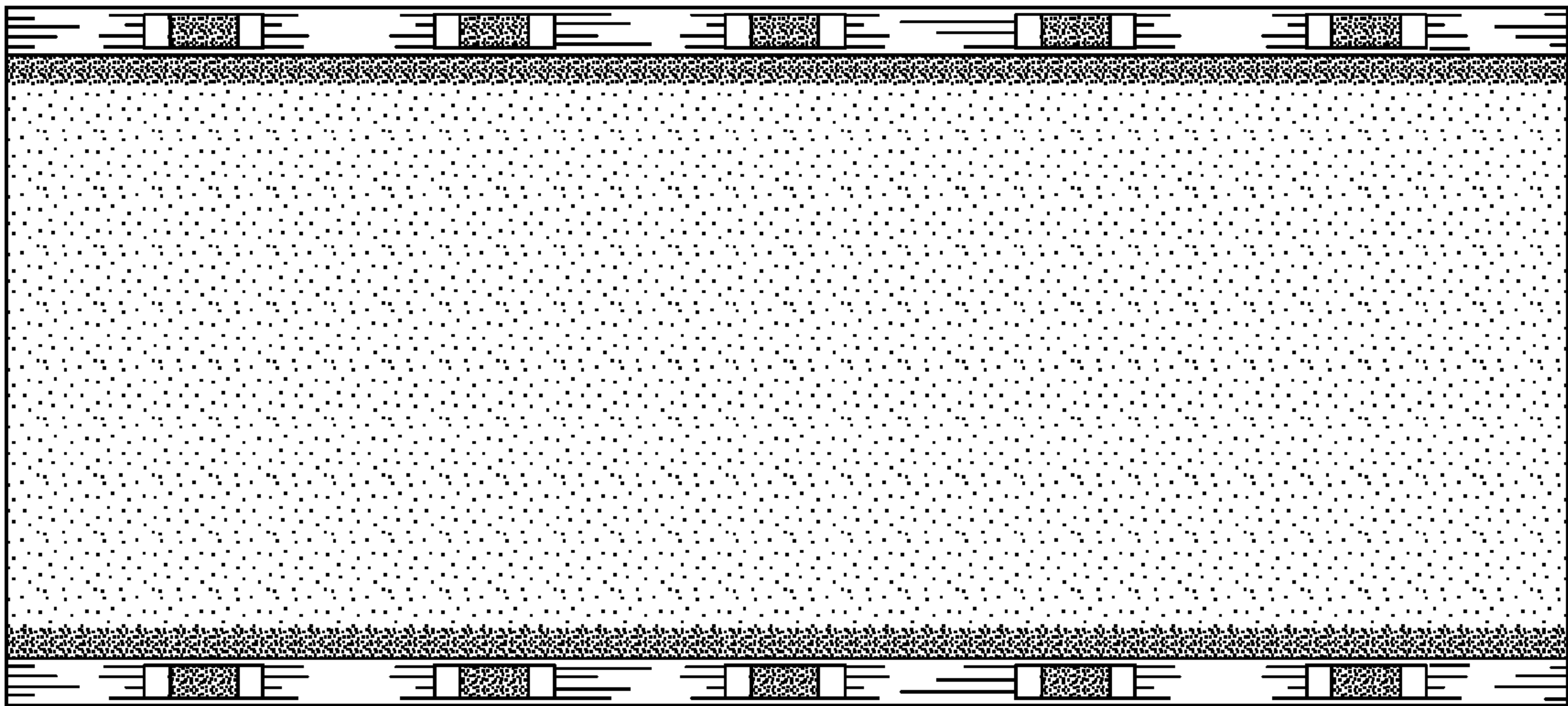




**Fig. 40**



**Fig. 41**



**Fig. 42**

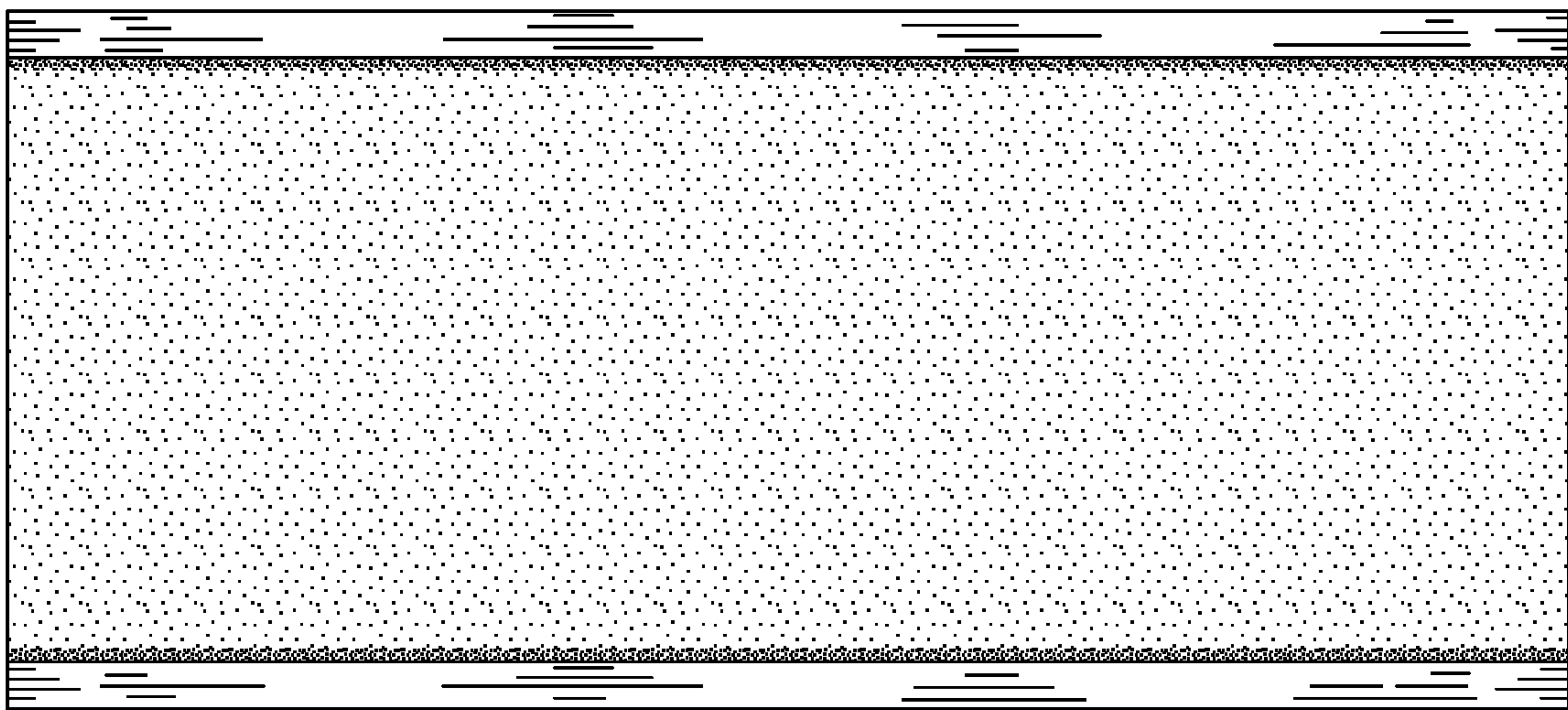




Fig. 43

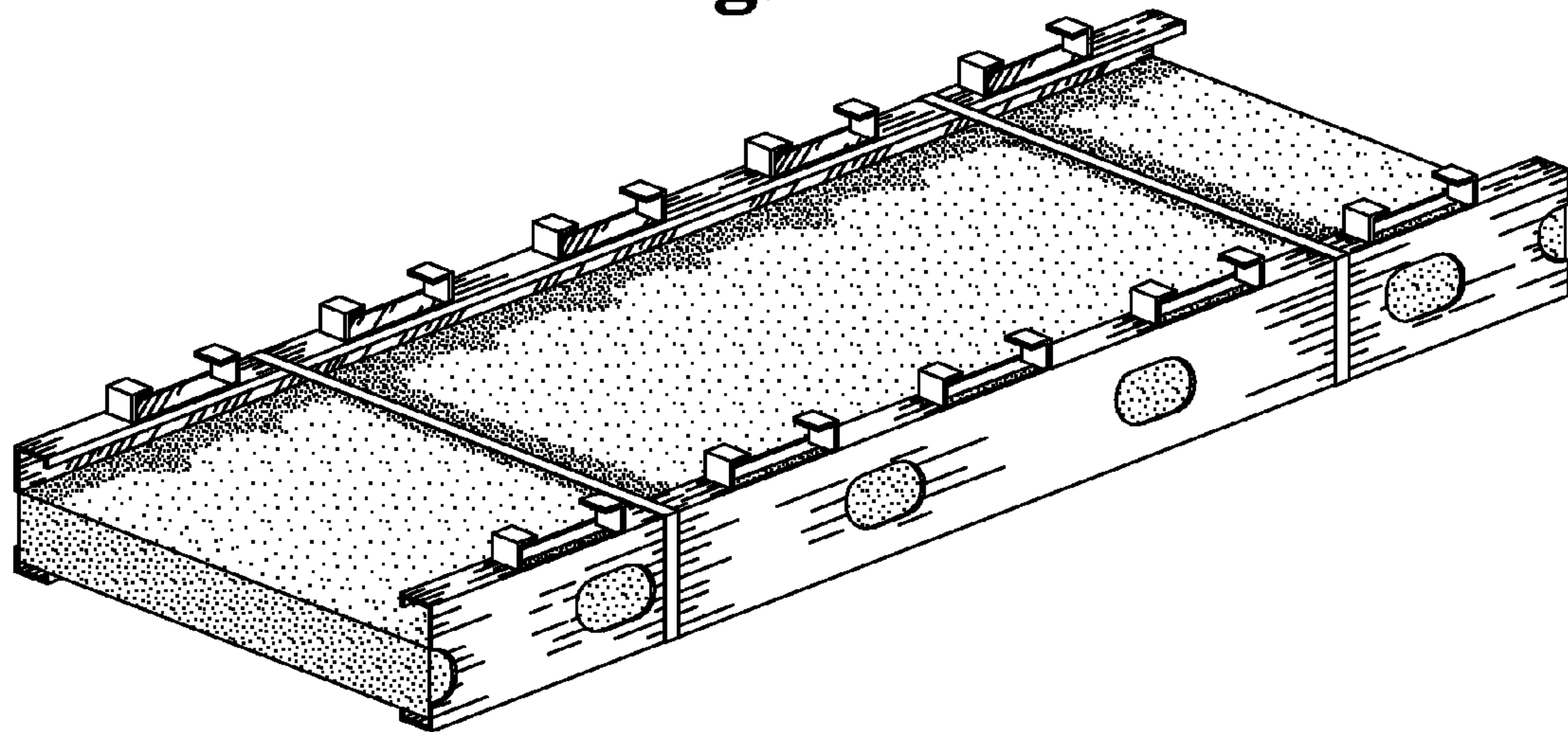


Fig. 44

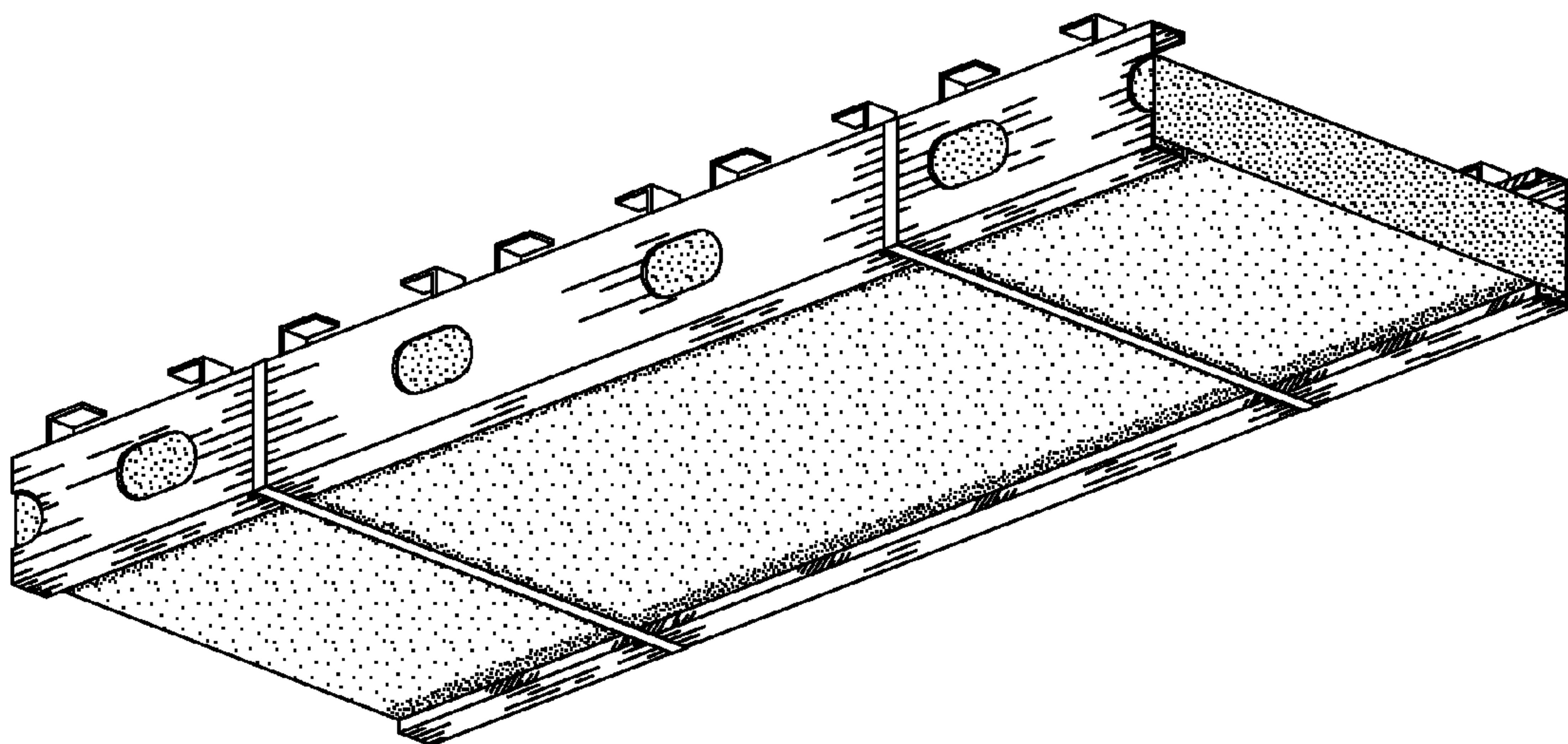
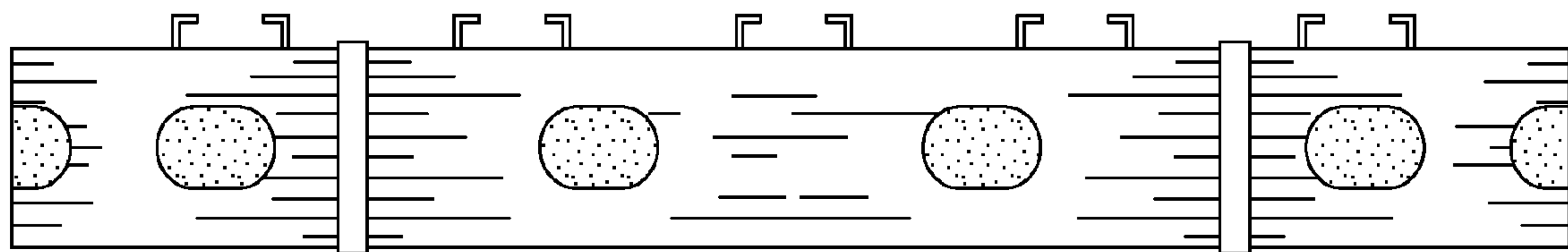
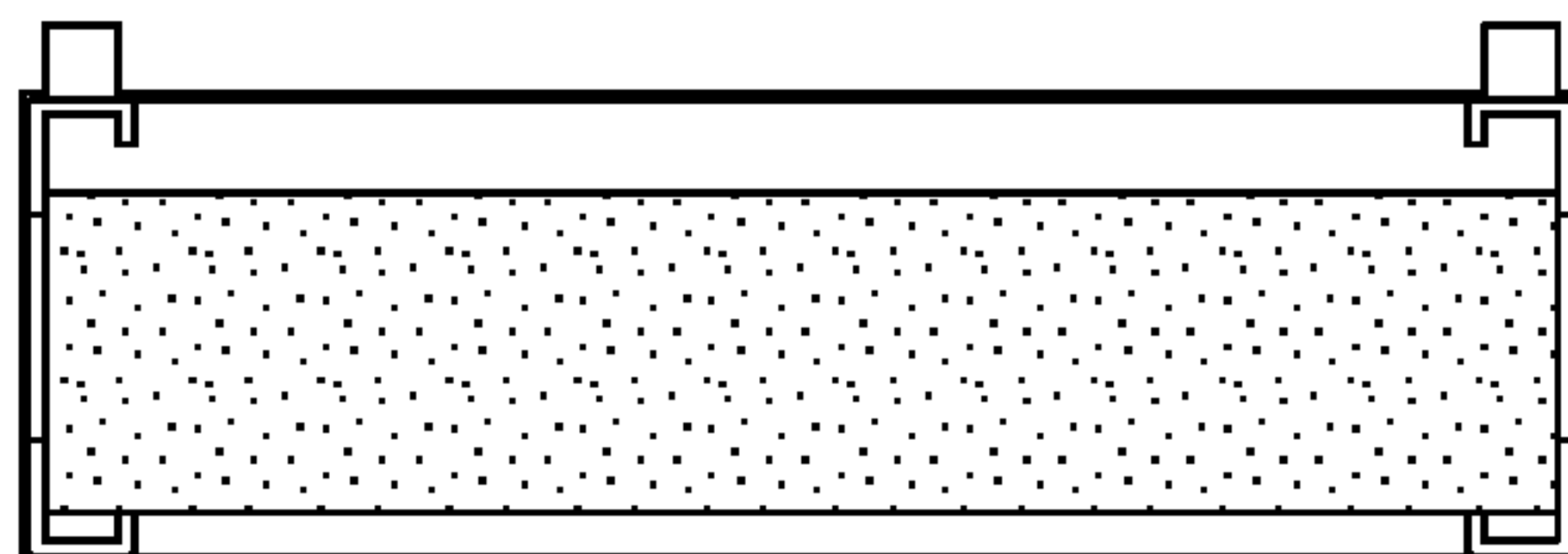


Fig. 45

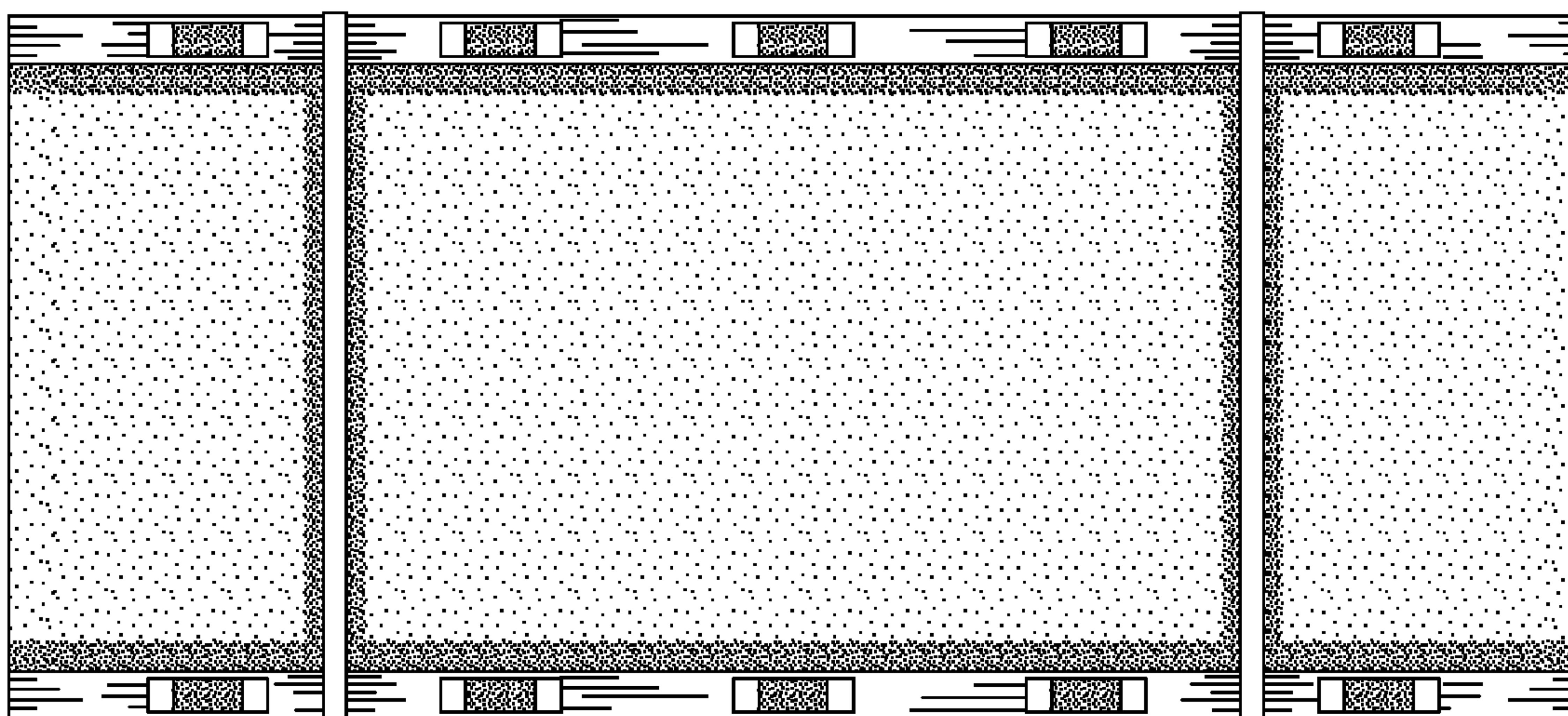




**Fig. 46**



**Fig. 47**



**Fig. 48**

