

J. H. STIGGLEMAN.
SECTIONAL METALLIC FLOORING.
APPLICATION FILED JUNE 4, 1909.

958,557.

Patented May 17, 1910.
2 SHEETS—SHEET 1.

Fig. 1.

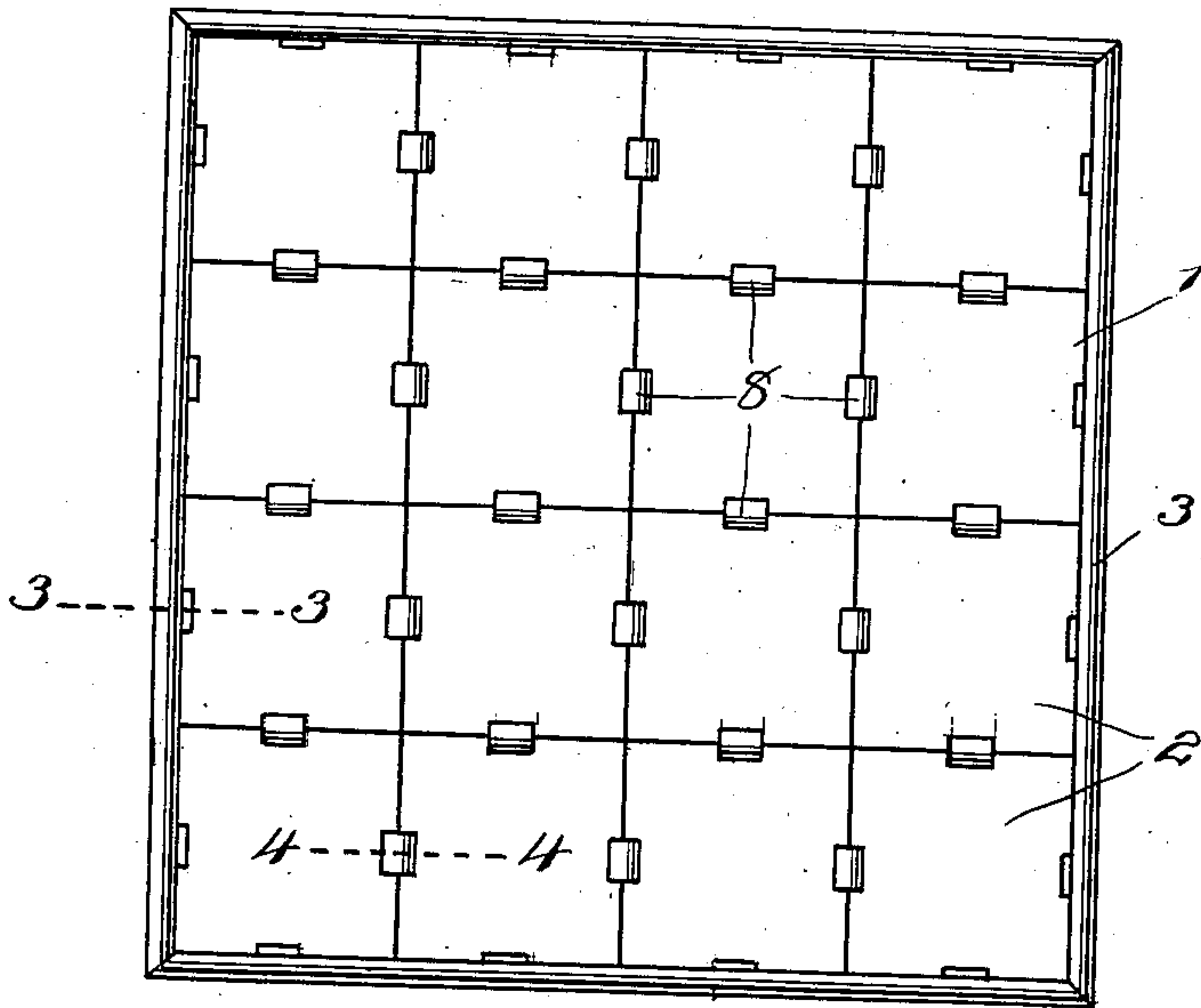


Fig. 3.

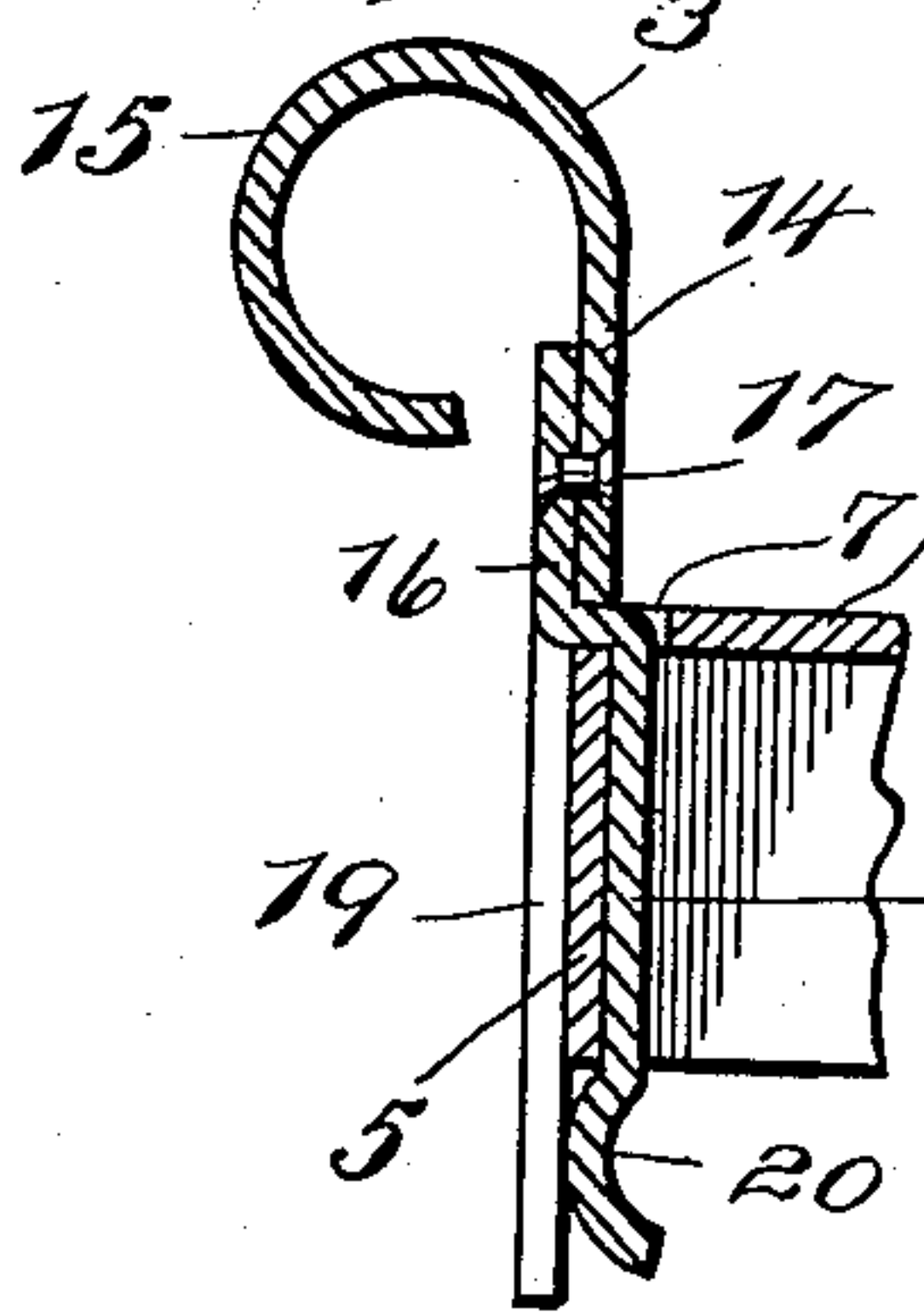


Fig. 2.

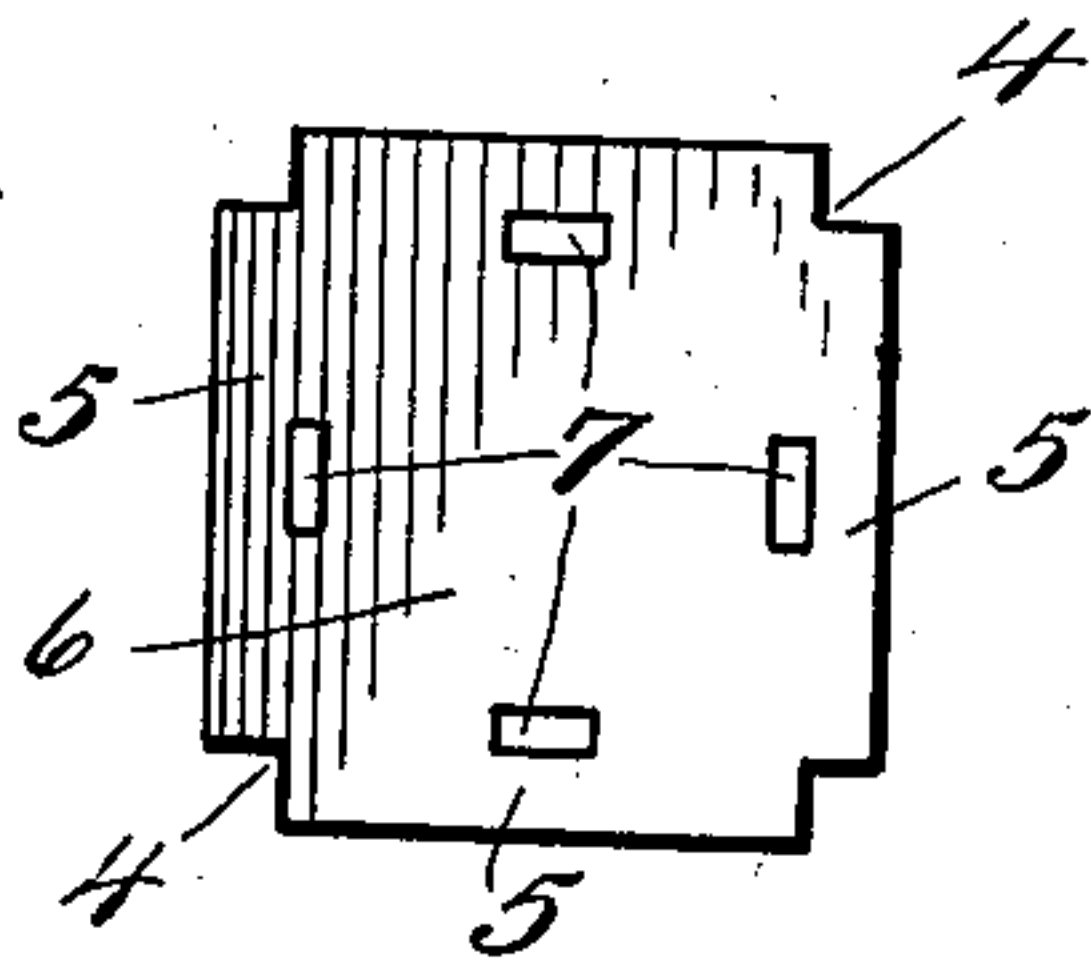


Fig. 4.

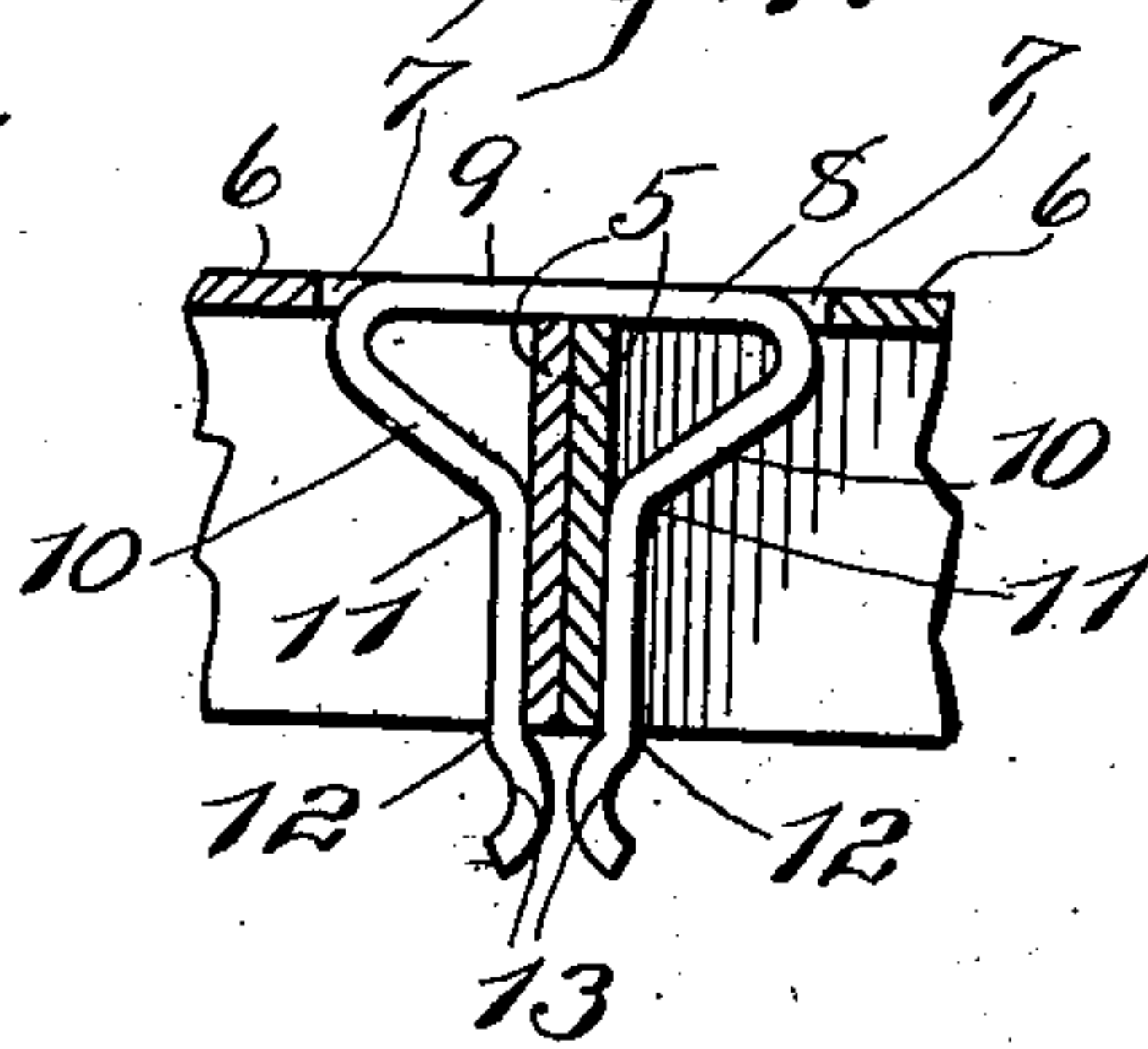
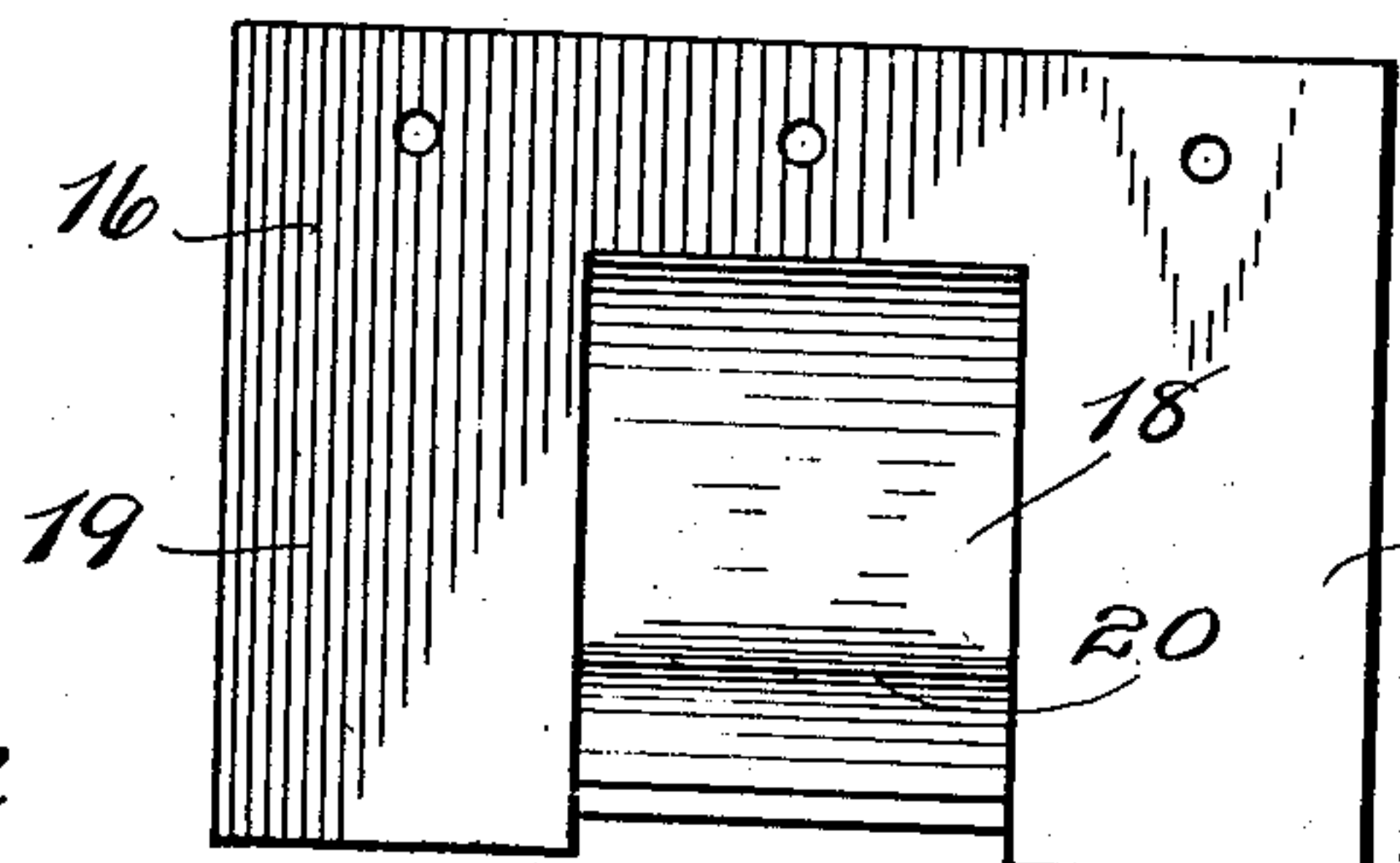


Fig. 5.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 6.

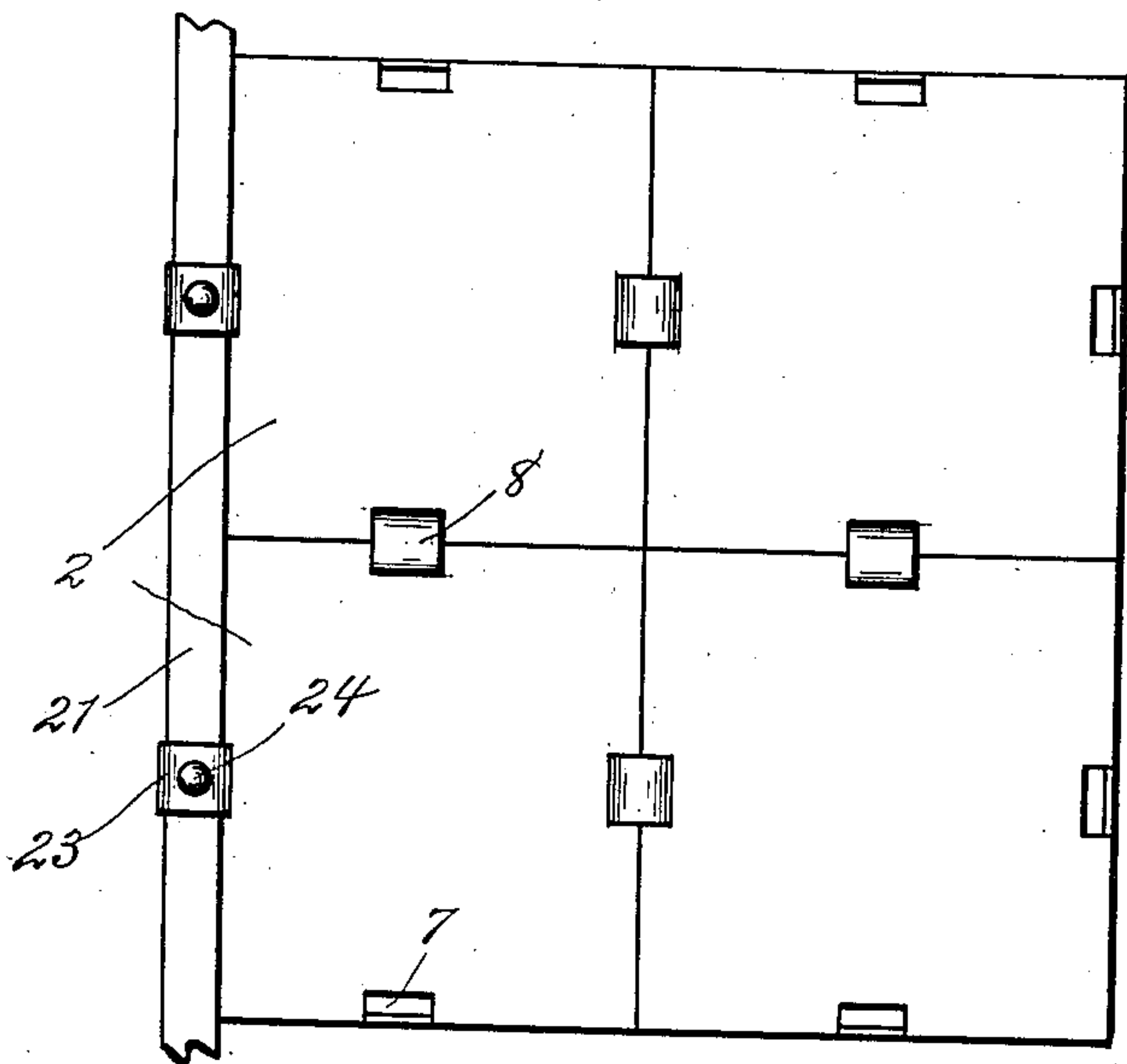


Fig. 7.

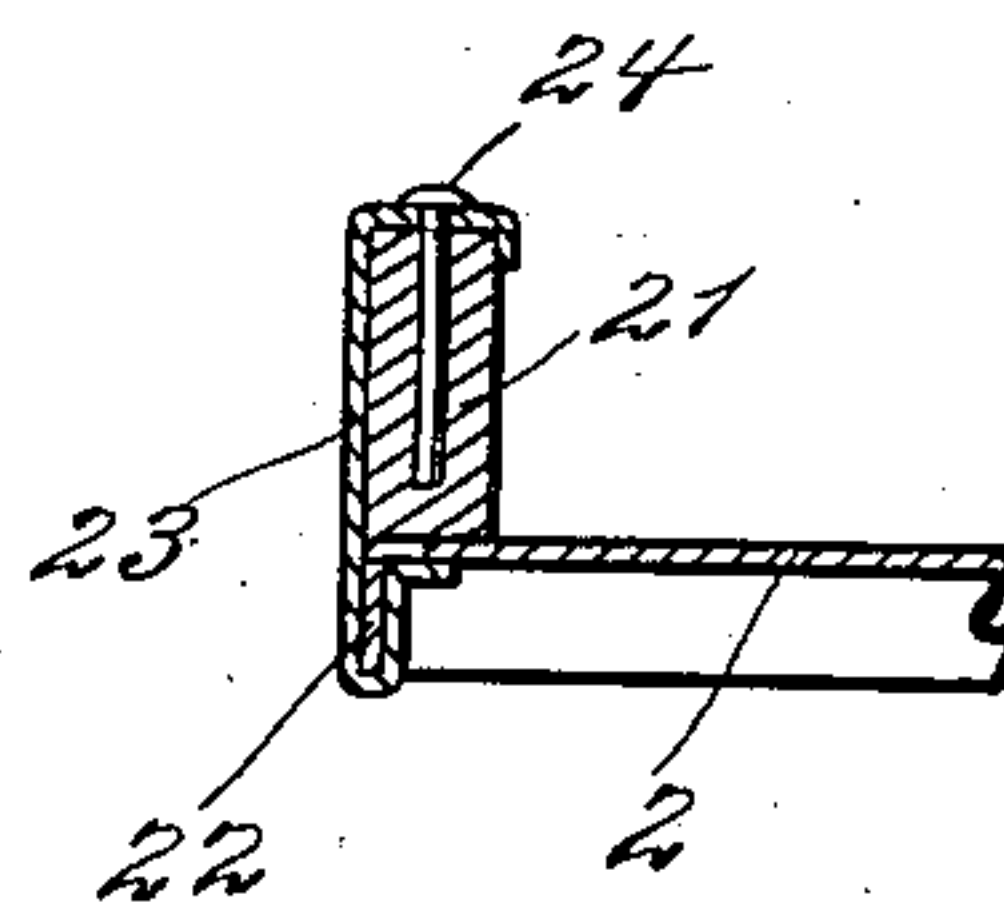


Fig. 8.

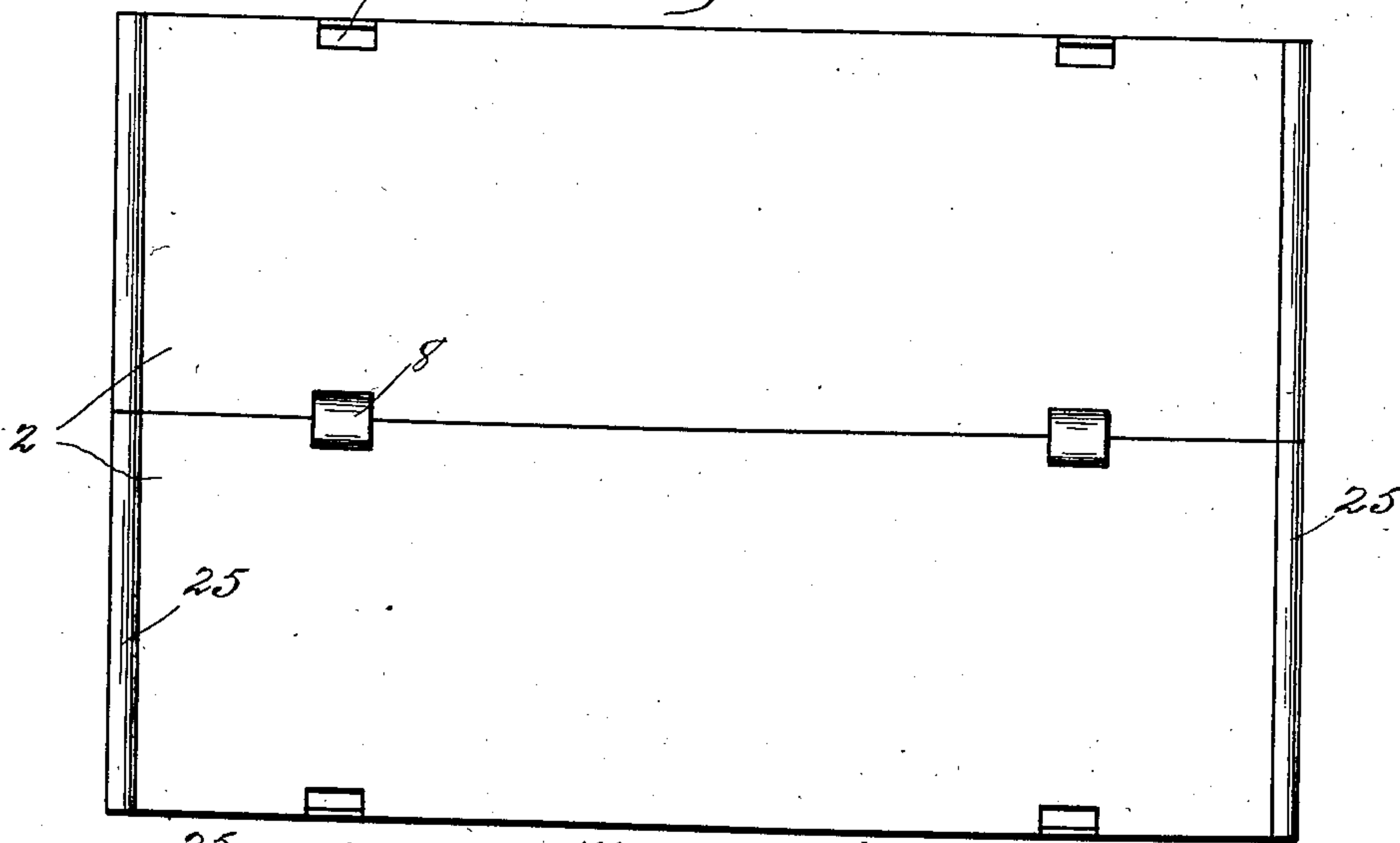


Fig. 9.



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UNITED STATES PATENT OFFICE.

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SECTIONAL METALLIC FLOORING.

958,557.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed June 4, 1909. Serial No. 500,201.

To all whom it may concern:

Be it known that I, JAMES H. STIGGLEMAN, a citizen of the United States, residing at Wabash, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Sectional Metallic Flooring; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to a sectional metallic flooring and has for its object to provide a metallic floor upon which swine are fed; or a suitable flooring for horses, cattle, sheep or any other live-stock; or a flooring for poultry houses or poultry yards or pens; or for houses and buildings, entrances, halls and vestibules of all descriptions.

With this object in view my invention consists in the construction of the sectional flooring; and my invention also consists in providing a flooring in sections in employing means for securing the sections together in such manner that it can be readily disconnected and moved.

Referring to the accompanying drawing: Figure 1 is a plan view of a sectional metallic flooring constructed in accordance with my invention. Fig. 2 is a plan view of a blank of one of the sections. Fig. 3 is an enlarged transverse sectional view taken on line 3—3 of Fig. 1. Fig. 4 is an enlarged transverse sectional view taken on line 4—4 of Fig. 1, Fig. 5 is an elevation of the clip for securing the border to the floor. Fig. 6 is a plan view showing sections provided with a border. Fig. 7 is a fragmentary section through same. Fig. 8 is a plan view of a modification, and Fig. 9 is a transverse section through same.

Like numerals of reference indicate the same parts throughout the several figures.

It is of course understood that while I have illustrated only one design of floor sections it is clearly apparent that the sections may be made in any convenient or suitable form in order to produce any fanciful pattern, the particular shape of the floor sections being immaterial.

Referring to the drawings: 1 indicates a

floor which as shown in Fig. 1 is made up of a series of sections 2, and a border 3 surrounding the floor may be provided wherever the same is essential.

As will appear from Fig. 2 the sections 2 are blanked out, the corners 4 being cut out so that the edges 5 are bent down at right angles to the body 6 of the sections, and four slots 7 are provided in the blank for a purpose which will be hereinafter fully described.

After the sections 2 have been formed by bending the edges 5 down at right angles to the body 6 the same are placed in position shown in Fig. 1. As each section is arranged I insert a connecting clip 8 into the slots 7 of the sections, thus rigidly connecting the same together. Said clips 8 have a flat face 9 and the end portions 10 are bent under to the point 11 at which point the end portions extend downwardly in a parallel line to the points 12 at which points the extreme ends of the end portions are concaved at 13 as clearly shown in Fig. 4. When two of the sections are in position to receive the said clip the two end portions of the clip are inserted in the adjacent slot 7, the concaved ends of the clips engaging the flanges or walls 5 of the floor sections drawing the same snugly together. As said clips are forced inwardly the parallel portions of the clips engage the flanges 5 and securely hold them together as shown in Fig. 4; while the concaved ends 13 pass beyond the flanges 5 and spring together to act as a retaining means for the clip in order to insure the same against accidental removal. As the clip reaches its seat and engages the upper edges of the walls or flanges 5 the top portion 9 of the clip is of a sufficient width to effectually close up the slots 7.

By means of this construction as many of the sections can be connected together as is desired, and as above stated any desired form or shape can be given to the sections so long as they are connected in the manner just described. When, however, it is desired to supply a border to the floor a vertical strip 14 is provided having its upper edge curved to form a bead 15, and to the vertical strip 14 I provide a clip 16, said clip 16 being securely fastened as by rivets 17 to the vertical strip 14 and said clip has a central portion 18 bent inwardly as shown in Fig. 3 and extends parallel to the portion

19 of the clip, the end of the central portion 18 being concaved at 20 as clearly shown in Fig. 3. In order to apply the border to the flooring the central portion 18 of the clip 16 is passed into the slots 7 along the edge of the flooring and is securely held therein by the flanges 5 on the floor sections, said clip straddling the flanges while the concaved portion 20 acts as a retaining means to securely hold the border against accidental displacement.

Referring to Figs. 6 and 7 it will be seen that the border can be constructed to comprise a vertical piece 21 which sits on the sections along the edges thereof. In this instance the sections are provided with a flange 22 under which a retaining clip 23 passes, said clip reaching over the top of the piece 21 to which it is secured by means of a pin or screw 24.

In Figs. 8 and 9 the sections are provided along their edges with a raised wall or flange 25 the edge of which is turned down at 26 to form a finish, this latter construction being particularly suitable for a narrow walk-way where each section is the full width of the same.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent of the United States is:—

1. A metallic flooring comprising a series of sections, each of said sections being provided with flanges and a series of openings, said openings being disposed near the edge of each section and adjacent the said flanges, a clip arranged to enter an opening in two adjacent sections, means on said clip for engaging two adjacent flanges on two of said sections to draw the same together, and means on said clip for retaining itself in position in said slots.

2. A metallic flooring comprising a series of sections, each of which is provided with a plurality of flanges, a series of clips ar-

ranged to enter said sections, means on said clips for engaging said flanges to draw the sections together, and means on said clips for retaining themselves in proper position in said sections.

3. A metallic flooring comprising a series of sections, each of which is provided with a plurality of flanges, a series of clips arranged to enter said sections, means on said clips for engaging said flanges to draw the sections together.

4. A metallic flooring comprising a series of sections, said sections being provided with flanges and a series of openings, a clip constructed to enter said openings and to engage the flanges on the sections.

5. A section for a metallic flooring comprising a plurality of flanges and a series of openings in said section adjacent the said flanges, and a clip arranged to enter an opening in said section and to engage a flange thereon.

6. A metallic flooring comprising a series of sections, each of which is provided with a series of flanges and with a plurality of openings in the tops thereof, a plurality of clips arranged to enter the said openings in said sections to tie the said sections together, and a border for said sections.

7. A metallic flooring comprising a plurality of sections, each of which sections is provided with two oppositely disposed flanges, and with two oppositely disposed flanges turned upward to form a border, each section being provided with an opening, and a clip arranged to enter the openings in two adjacent sections to tie the same together.

In testimony whereof, I affix my signature, in presence of two witnesses.

JAMES H. STIGGLEMAN.

Witnesses:

GLENN ALLEN,
GEO. F. MULL.