

967,541.

C. E. MOREHOUSE.
 TEMPORARY BINDER.
 APPLICATION FILED NOV. 2, 1909.

Patented Aug. 16, 1910.
 2 SHEETS—SHEET 1.

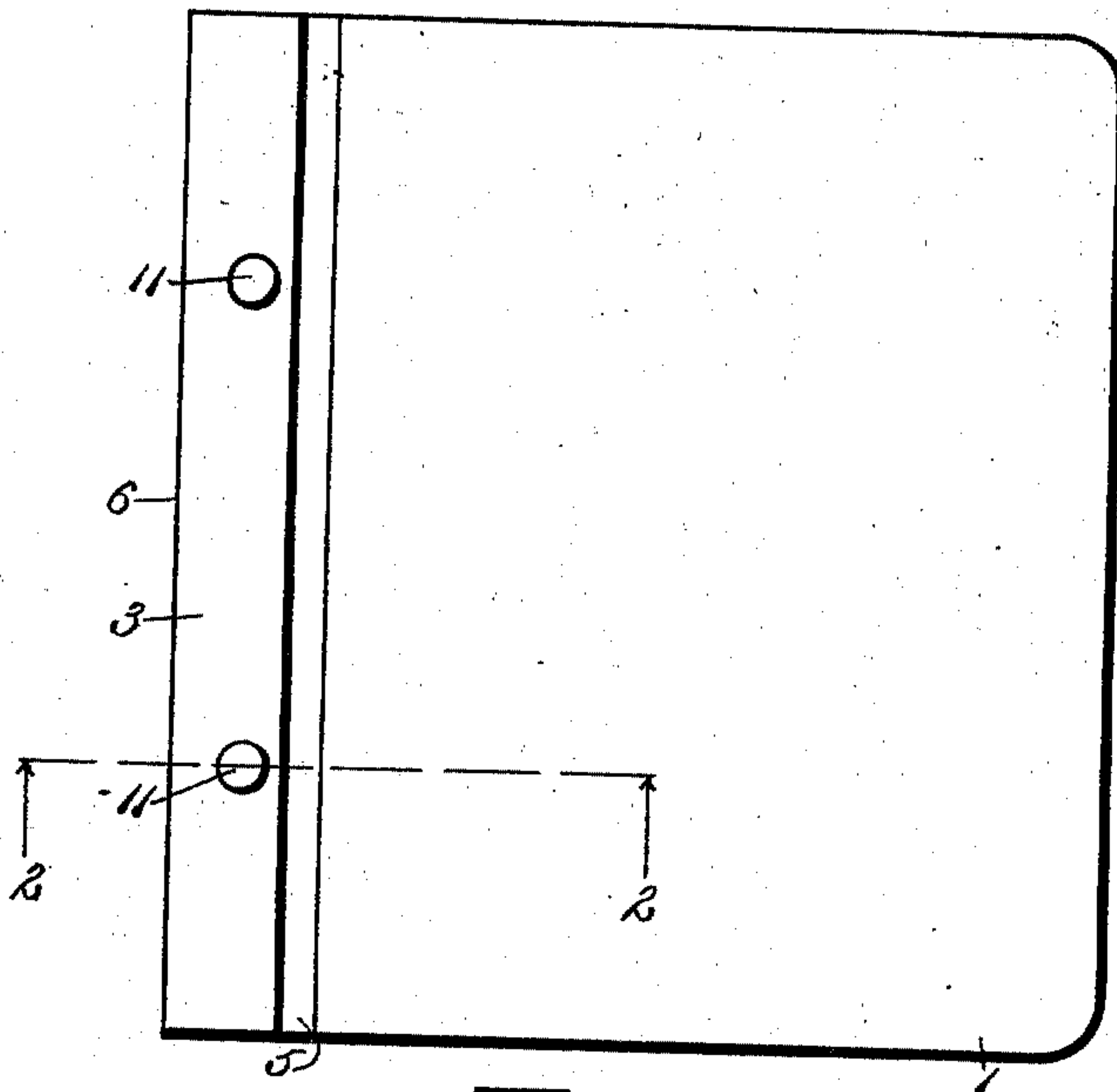


Fig. 1.

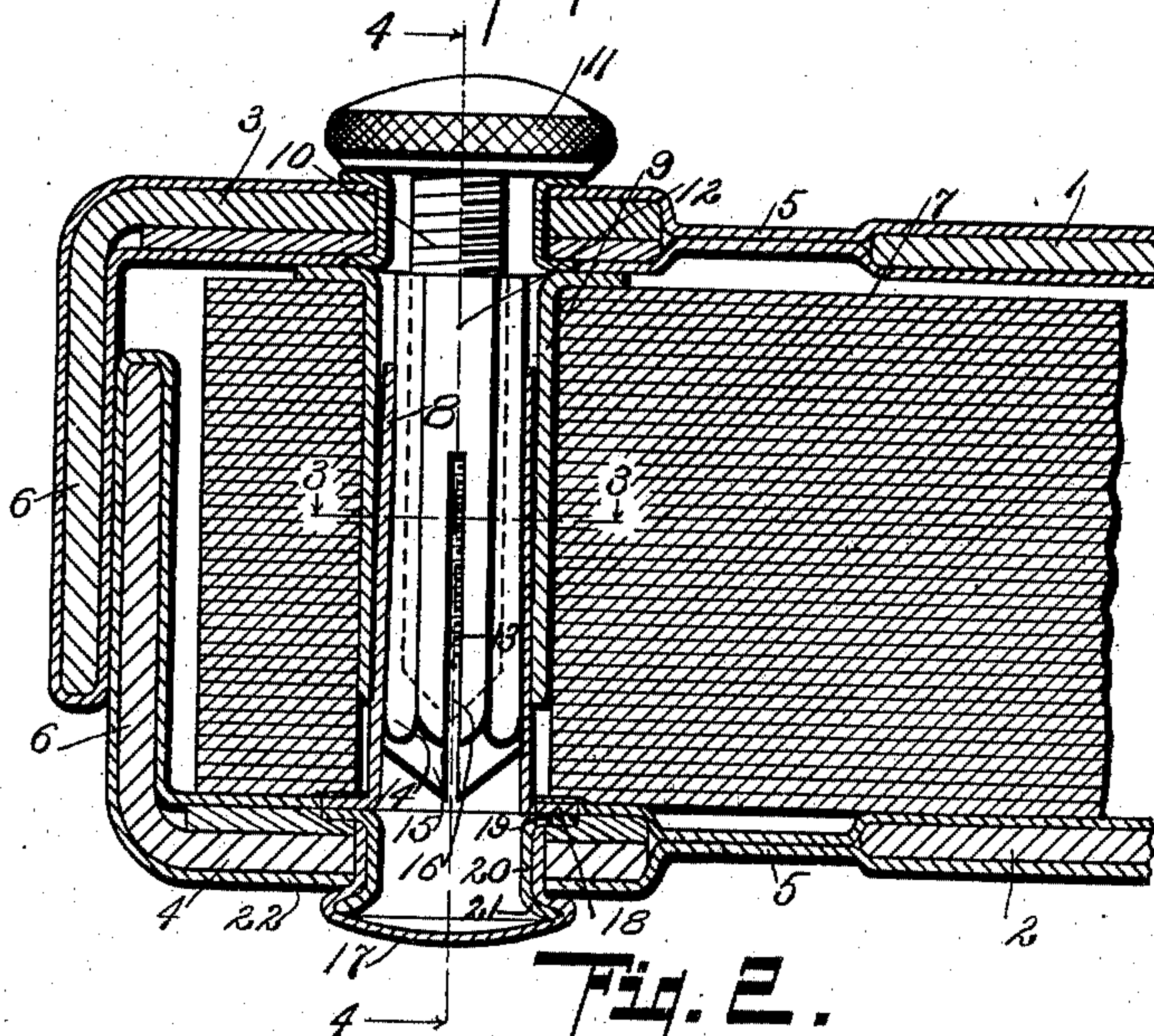


Fig. 2.

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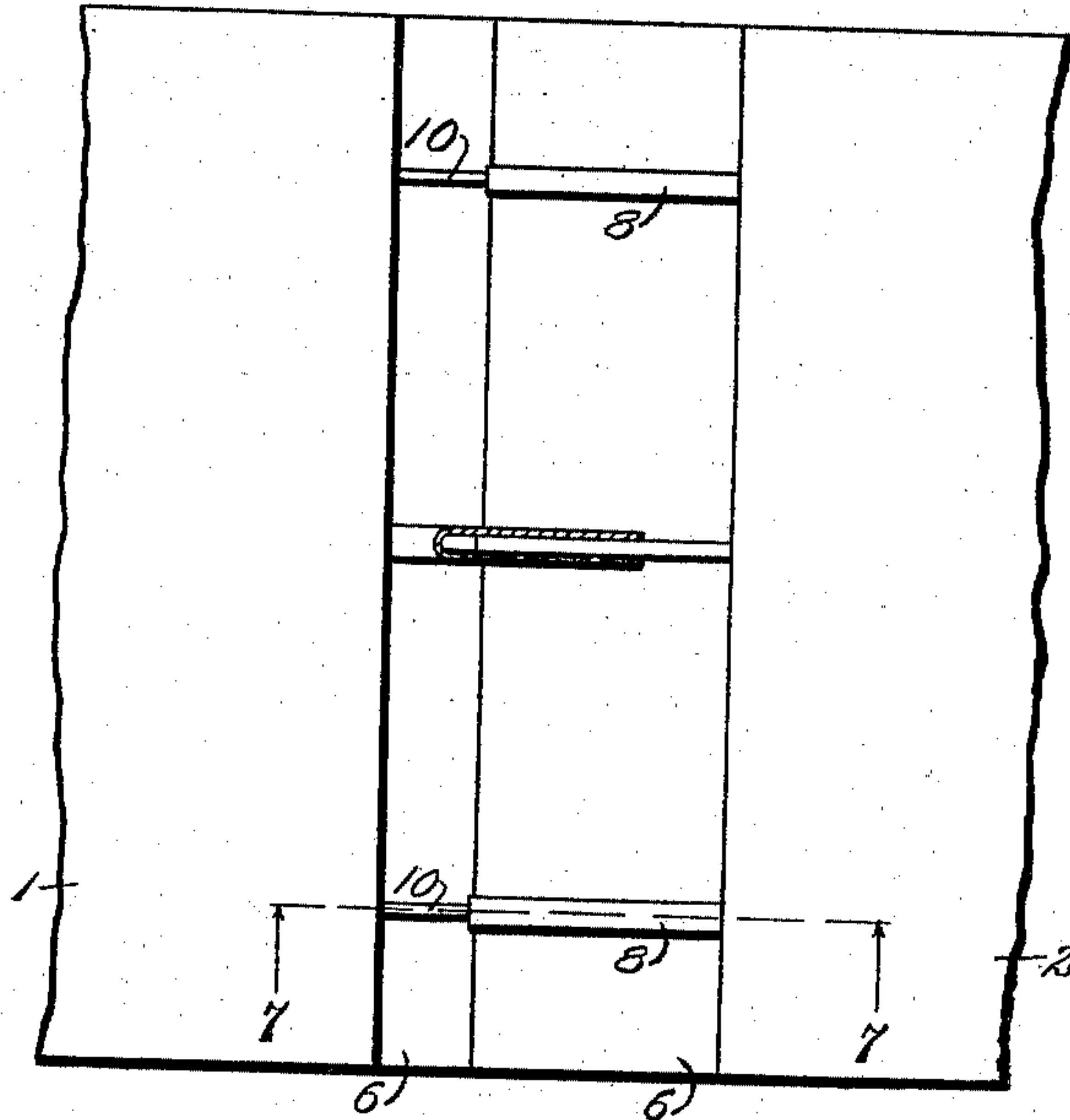


Fig. 6.

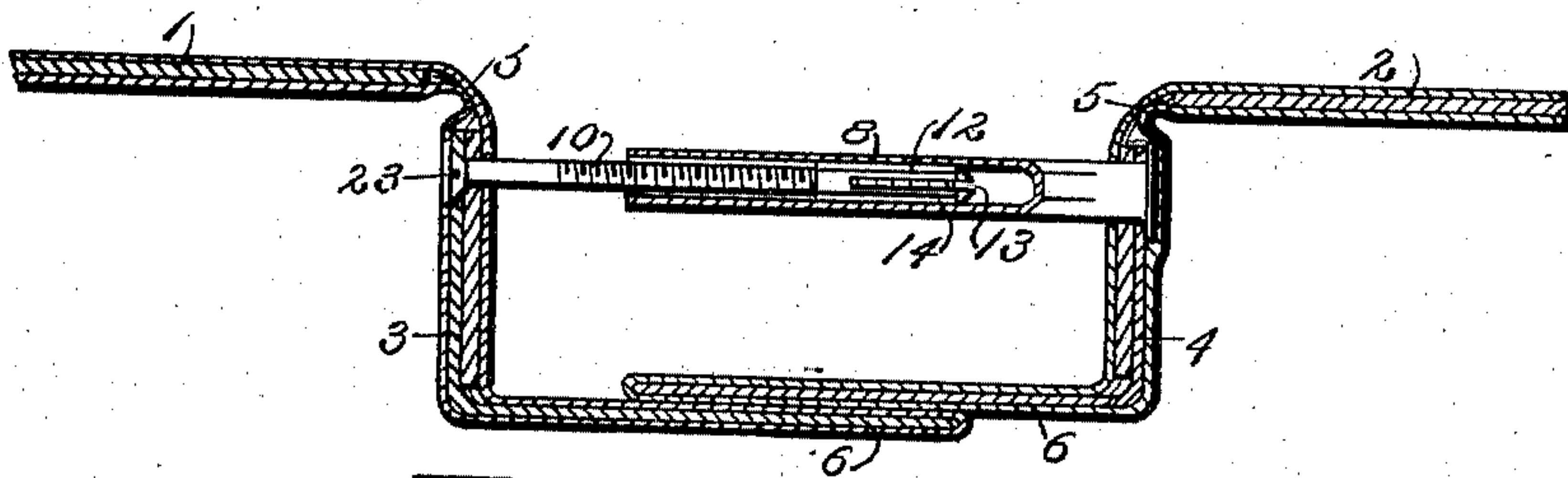


Fig. 7.

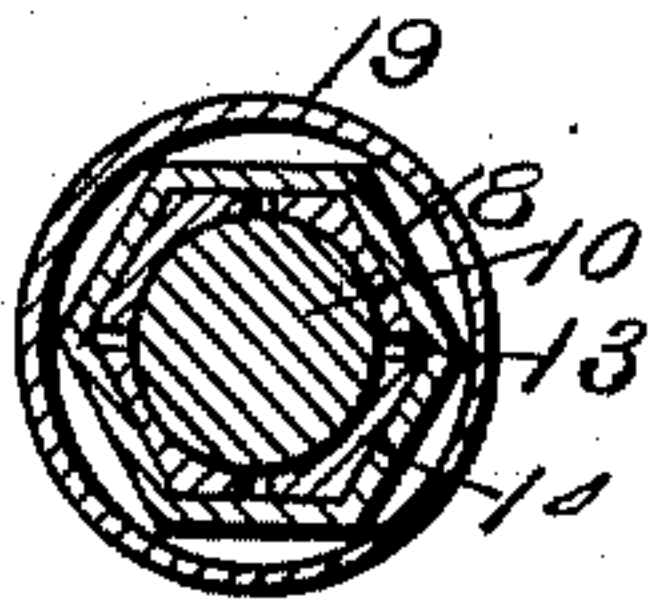


Fig. 8.

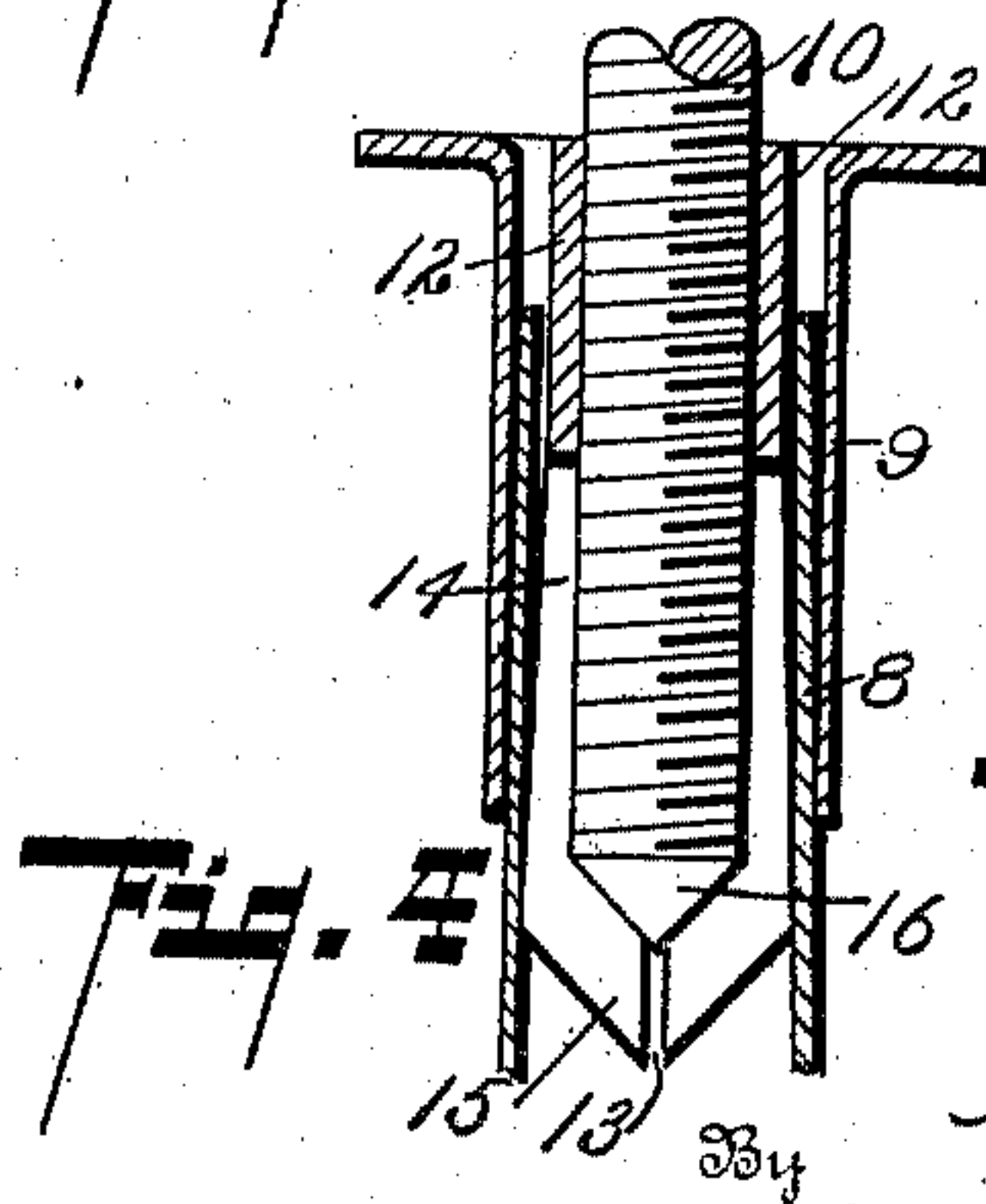


Fig. 4.

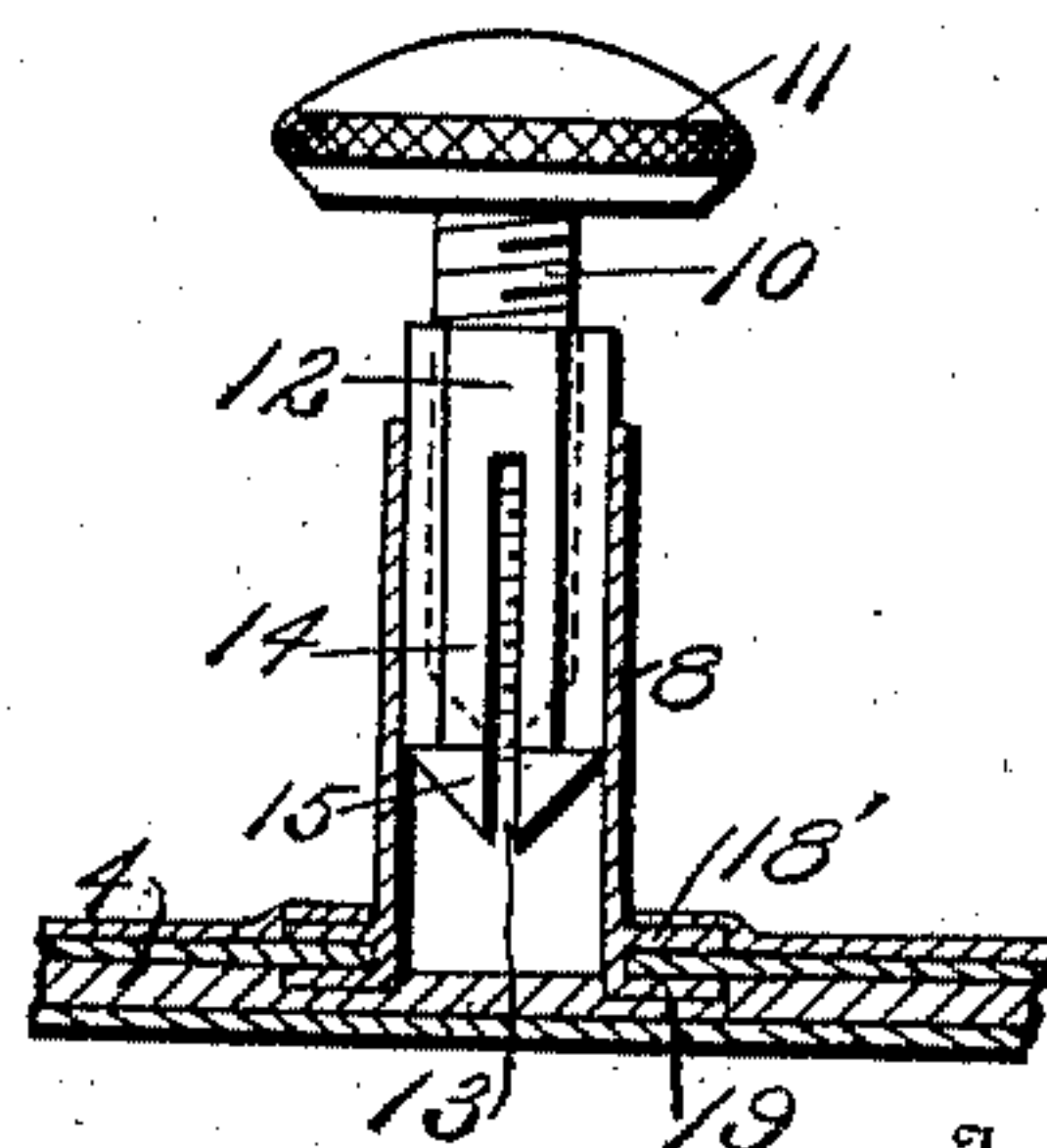


Fig. 5.

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UNITED STATES PATENT OFFICE.

CYRUS E. MOREHOUSE, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO THE HEINN COMPANY, OF MILWAUKEE, WISCONSIN.

TEMPORARY BINDER.

967,541.

Specification of Letters Patent.

Patented Aug. 16, 1910.

Application filed November 2, 1909. Serial No. 525,888.

To all whom it may concern:

Be it known that I, CYRUS E. MOREHOUSE, a citizen of the United States, residing at the city of Milwaukee, county of Milwaukee, State of Wisconsin, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

This invention relates to improvements in temporary binders or loose sheet holders.

The main objects of this invention are to provide in a temporary binder or loose sheet holder an improved means for securing the parts in their adjusted position.

Another object is to provide in a temporary binder or loose sheet holder an improved means for securing the parts in their adjusted position, in which the parts are very economical in the matter of material and cost of manufacture and very easily assembled, and, at the same time, the structure is very satisfactory in use, being capable of rapid adjustment and being very secure when adjusted.

Another object is to provide an improved means for securing the binding posts in position.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure 1 is a plan of a binder embodying the features of my invention. Fig. 2 is an enlarged detail longitudinal section, taken on a line corresponding to line 2, 2 of Fig. 1. Fig. 3 is a cross section, through one of the binding posts, taken on a line corresponding to line 3, 3 of Fig. 2. Fig. 4 is an enlarged detail longitudinal section, taken on a line corresponding to line 4, 4 of Fig. 2, the screw being shown in full lines. Fig. 5 is a detail section of a modified structure, in which the post member 8 is secured to the cover member by a slightly different method from that embodied and illustrated in the structure of Fig. 2. Fig. 6 is a detail plan of a further modified structure, modifications existing in

the head of the screw in a manner for securing the parts together, the outer post section or member of the structure of Figs. 1 to 4 inclusive, being omitted. Fig. 7 is a detail longitudinal section, taken on a line corresponding to line 7—7 of Fig. 6, part of the post member 8 being shown in full lines.

In the drawings, similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, the structure illustrated is provided with covers 1 and 2, having clamping or cover members 3 and 4, respectively, secured thereto by means of the flexible or hinged portions 5. The clamping bars or cover members 3 and 4 are preferably provided with inwardly-turned telescoping flange portions 6 on their rear edges, which form the back of the book. The sheets 7 are perforated to receive the binding posts, which are preferably made up of telescoping members or sections 8 and 9, the inner post member 8 being secured to the lower cover member, while the outer post member is preferably loose and secured only by means of the screw 10. The inner post member 8 is preferably polygonal in cross section, as clearly appears in Fig. 3 and is preferably internally tapered toward its outer end. The parts are adjustably secured together by means of the screw 10, which is arranged in the outer post member 9, and is preferably provided with a knurled head or finger piece 11 at its outer end. On the screw 10 is a clamping sleeve 12, which is preferably polygonal in cross section to fit the inner post member, whereby rotation of the sleeve in the post is prevented. This sleeve is adapted to be longitudinally adjusted in the inner post member, it being carried and supported by the screw. The inner end of the sleeve 12 is provided with longitudinal slits 13, which form clamping or clutch fingers 14. These clutch fingers have inturned portions 15 at their inner ends, preferably arranged to form a conical seat for the conical tip 16 of the screw, so that, when the screw is turned down in the sleeve, its tip engages these inturned portions of the fingers, thereby clamping the fingers against the walls of the inner post member and securing the parts in position. It is obvious that the clamping may be ef-

fectured with the sleeve and screw in any position relative to the inner post member, so that the binder can be readily secured in any position. The inner post member is preferably secured in position, as I illustrate in Fig. 2, as I find this means simple and effective, and, at the same time, the book has a symmetrical appearance in that the cap portions 17 of the securing studs correspond to the finger pieces or heads of the screws.

The post members 8 are provided with outwardly turned flanges 18 at their lower ends, to which the outwardly projecting flange 19 of the stud 20 is secured. The stud is arranged through an opening provided therefor in the clamping bar or cover member 4, and is expanded outwardly as at 21 into the head of the cap 17, thereby securing the parts firmly in position, the cap being sleeved upon the stud and provided with an enlarged head, as clearly appears from the drawing, the fastening being substantially the same as that of the female member of a glove fastening.

The post member 9 may be connected to the clamping bar or member 3 of the cover 1 but I prefer that it should be loose, as it holds the leaves in place when the parts are disengaged.

In the modified construction shown in Fig. 5, the post is provided with a pair of flanges, the inner flange 18' being in the form of a washer-like collar, sleeved upon and secured to the post. In the modified construction shown in Figs. 6 and 7, this collar is omitted, and the post and its flange is soldered directly to the clamping bar. In this construction, the head or finger piece 11 of the screw is omitted, the screw having the common form of screw head 23, which is preferably countersunk into the clamping members, so that the cover is symmetrical, or has the same appearance, on both sides. In this construction, the outer post members 9 are omitted, and I find the structure quite satisfactory without the same. However, I prefer to use the two telescoping post members, as illustrated in Figs. 1 to 4, inclusive.

By thus forming and arranging the parts, the binder may be very quickly adjusted to permit the leaves to be inserted or removed and secured at any position of adjustment within its scope. The structure is also very economical to produce, and, at the same time, is strong and durable. The parts are economical, both in the matter of material and cost of producing the same and very easily and economically assembled, so that I am able to produce a satisfactory binder at a reasonable price.

I have illustrated and described my improvements in detail in the form preferred by me on account of structural simplicity and economy of producing of the parts.

However, I am aware that the structure is capable of considerable variation in structural details without departing from my invention, and I desire to be understood as claiming the same specifically, as illustrated herein, as well as broadly.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. The combination with the cover members, of a binding post comprising hollow telescoping members, the inner post member being polygonal in cross section, a screw having a conical tip detachably arranged in the outer post member, and a clutch sleeve threaded upon and carried by said screw, said sleeve being polygonal in cross section to fit said inner member and being adapted to be longitudinally adjusted therein, its inner end being longitudinally slitted and provided with a conical seat for the tip of said screw whereby said sleeve may be expanded to secure the parts in their adjusted position.

2. The combination with the cover members, of a binding post comprising hollow telescoping members, the inner post member being polygonal in cross section, a screw having a conical tip arranged in the outer post member, and a clutch sleeve threaded upon and carried by said screw, said sleeve being polygonal in cross section to fit said inner member and being adapted to be longitudinally adjusted therein, its inner end being longitudinally slitted and provided with a conical seat for the tip of said screw whereby said sleeve may be expanded to secure the parts in their adjusted position.

3. The combination with the cover members, of a binding post comprising hollow telescoping members, a screw having a conical tip detachably arranged in the outer post member, and a clutch sleeve threaded upon and carried by said screw, said sleeve being held against rotation and adapted to be longitudinally adjusted in said inner post member, its inner end being longitudinally slitted and provided with a conical seat for the tip of said screw whereby said sleeve may be expanded to secure the parts in their adjusted position.

4. The combination with the cover members, of a binding post comprising hollow telescoping members, a screw having a conical tip arranged in the outer post member, and a clutch sleeve threaded upon and carried by said screw, said sleeve being held against rotation and adapted to be longitudinally adjusted in said inner post members, its inner end being longitudinally slitted and provided with a conical seat for the tip of said screw whereby said sleeve may be expanded to secure the parts in their adjusted position.

5. The combination with the cover mem-

bers, of a binding post comprising hollow telescoping members, a screw arranged in the outer post member, and a clutch sleeve threaded upon and carried by said screw
 5 said sleeve being held against rotation and adapted to be longitudinally adjusted in said inner post member, its inner end being longitudinally slitted and provided with inwardly projecting portions adapted to be engaged by said screw whereby said sleeve
 10 may be expanded to secure the parts in their adjusted position.

6. The combination with the cover members, of a binding post comprising hollow telescoping members, a screw arranged in the outer post member, and a clutch sleeve threaded upon and carried by said screw, said sleeve being held against rotation and adapted to be longitudinally adjusted in
 15 said inner post member, said sleeve being provided with clutch fingers adapted to be engaged by said screw and forced into clutching engagement with said inner post member, whereby the parts may be secured
 20 in their adjusted position by the manipulation of said screw.

7. In a temporary binder the combination of the hollow post member polygonal in cross section, a screw having a conical tip, and a clutch sleeve threaded upon and carried by said screw, said sleeve being polygonal in cross section to fit said post member and being adapted to be longitudinally adjusted therein, its inner end being longitudinally
 30 slitted and provided with a conical seat for the tip of said screw whereby said sleeve may be expanded to secure the parts in their adjusted position.

8. In a temporary binder the combination
 40 of the hollow post member, a screw, and a clutch sleeve threaded upon and carried by said screw, said sleeve being held against rotation in said post member and being adapted to be longitudinally adjusted therein, its inner end being longitudinally slitted and provided with a conical seat for the tip

of said screw whereby said sleeve may be expanded to secure the parts in their adjusted position.

9. In a structure of the class described, 50 the combination with a cover member, of a binding post member having an outwardly-projecting flange at its lower end; and means for securing said post member to said cover member comprising a hollow stud arranged through said cover member, having
 55 a flange at its inner end secured to said flange on said post member, and a cap-like head for said stud sleeved thereon, the outer end of said stud being expanded into said
 60 cap.

10. In a temporary binder the combination of the hollow tapered post member, a screw, and a clutch sleeve threaded upon and carried by said screw, said sleeve being
 65 held against rotation in said post member and being adapted to be longitudinally adjusted therein, its inner end being longitudinally slitted and provided with a conical seat for the tip of said screw whereby said
 70 sleeve may be expanded to secure the parts in their adjusted position.

11. In a temporary binder the combination of the hollow tapered post member polygonal in cross section, a screw, and a
 75 clutch sleeve threaded upon and carried by said screw, said sleeve being secured against rotation in said post member and being adapted to be longitudinally adjusted therein, said sleeve being provided with clutch
 80 fingers adapted to be engaged by said screw whereby the parts may be secured in their adjusted position by the manipulation of said screw.

In witness whereof, I have hereunto set
 85 my hand and seal in the presence of two witnesses.

CYRUS E. MOREHOUSE. [L. s.]

Witnesses:

NATHAN GLICKSMAN,
 MYNETTE SEELIG.