

G. P. WIGGINTON.
BINDER.

APPLICATION FILED OCT. 23, 1908.

Patented Nov. 30, 1909.

2 SHEETS—SHEET 1.

941,481.

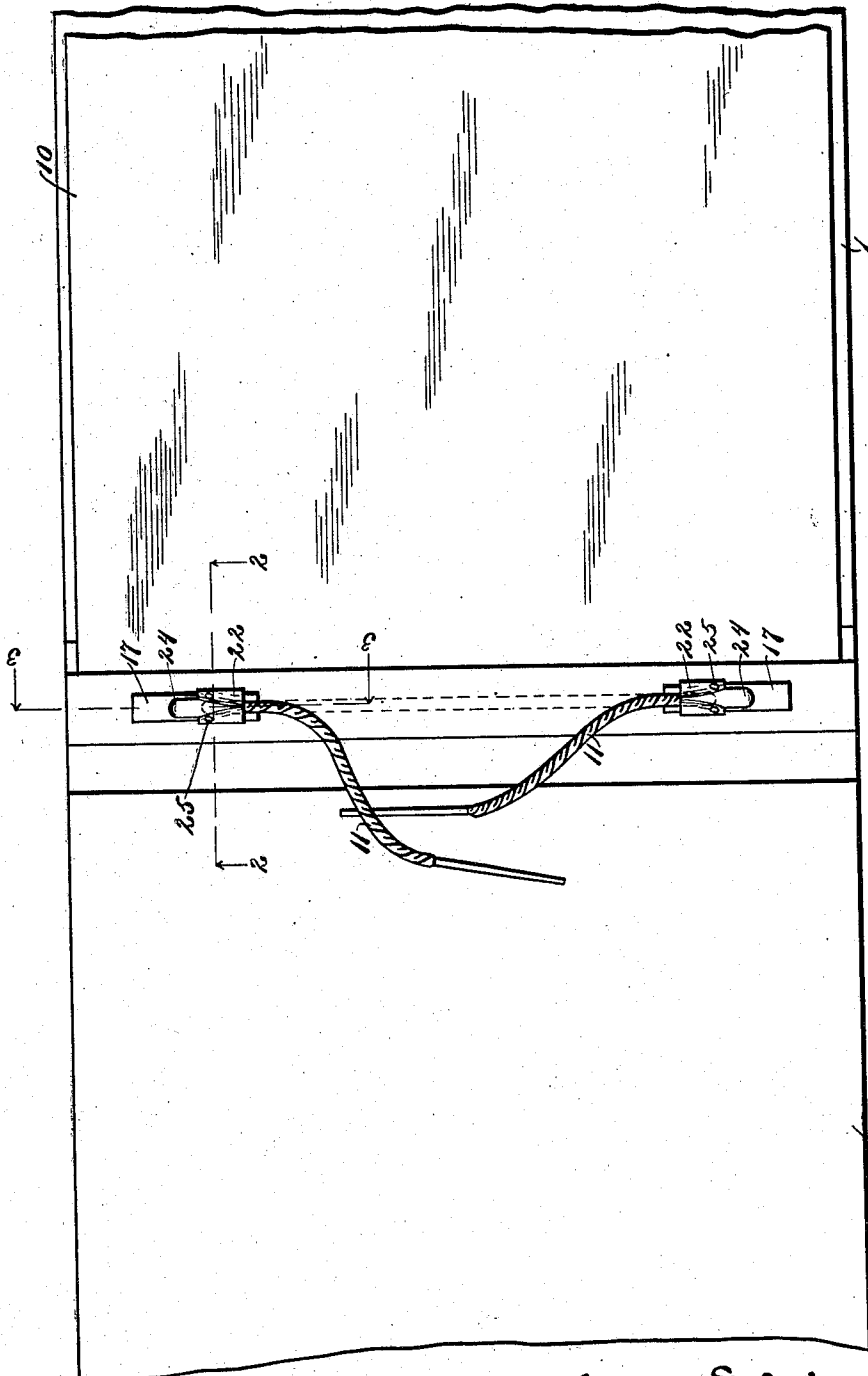


Fig. 1.

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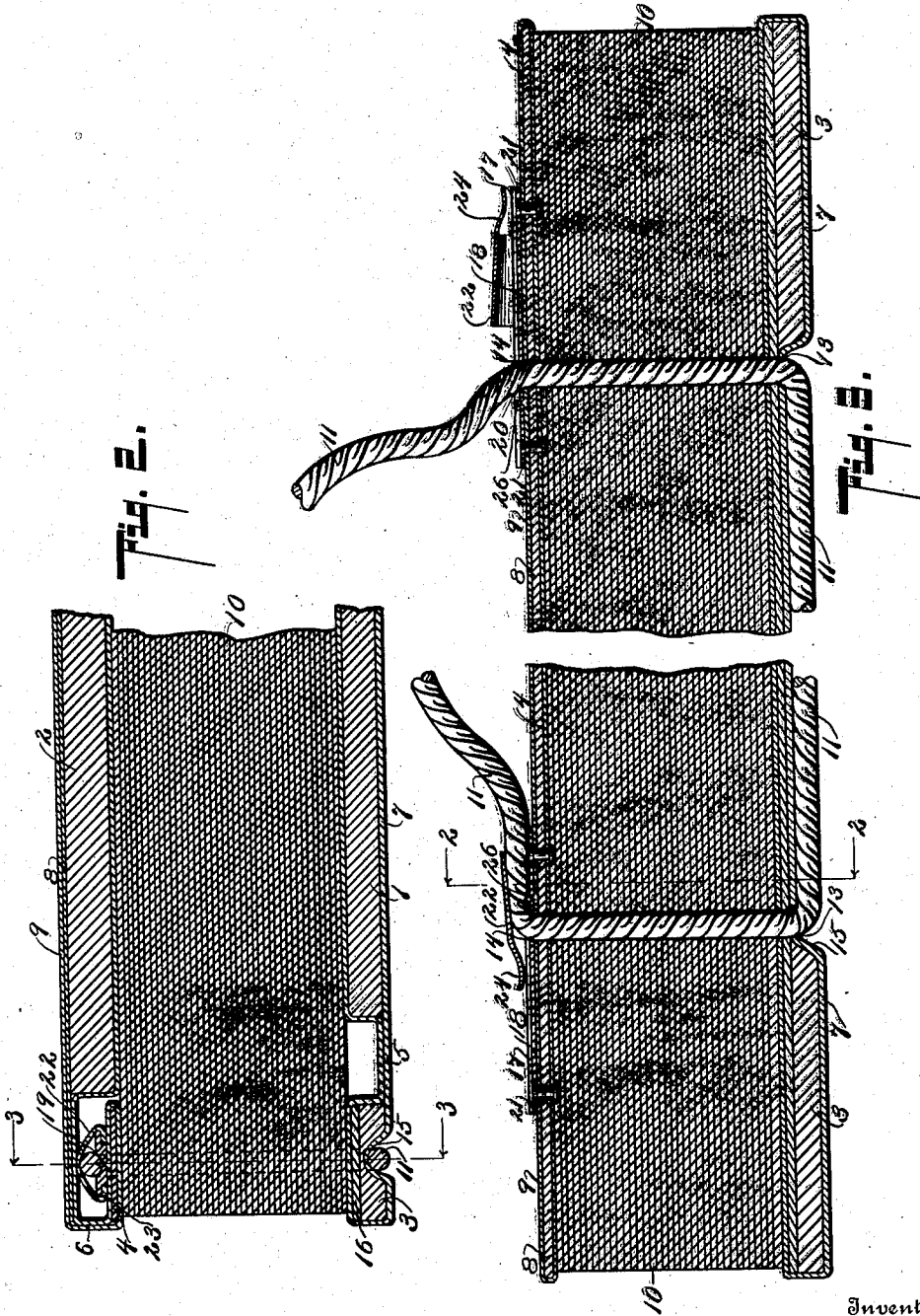
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UNITED STATES PATENT OFFICE.

GEORGE P. WIGGINTON, OF KALAMAZOO, MICHIGAN, ASSIGNOR TO KALAMAZOO LOOSE
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BINDER.

941,481.

Specification of Letters Patent.

Patented Nov. 30, 1909.

Application filed October 23, 1908. Serial No. 459,194.

To all whom it may concern:

Be it known that I, GEORGE P. WIGGINTON, a citizen of the United States, residing at Kalamazoo, county of Kalamazoo, State of Michigan, have invented certain new and useful Improvements in Binders, of which the following is a specification.

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

10 The main object of this invention is to provide an improved temporary binder or loose sheet holder, which is capable of being quickly and easily adjusted for the insertion or removal of sheets or leaves, and one
15 which, when adjusted, is very secure.

A further object is to provide an improved temporary binder which is very simple and economical in structure, and adapted to receive and secure or hold any number of
20 sheets from one to its maximum capacity.

A still further object is to provide an improved binder of the class described, which is very economical to produce, and, is, at the same time, neat and attractive in appearance.

25 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
30 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
35 specification, in which:

Figure 1 is a detail view of my improved binder, the top cover being open or thrown back. Fig. 2 is an enlarged longitudinal section, taken on a line corresponding to line
40 2—2 of Fig. 1. Fig. 3 is an enlarged cross section taken on a line corresponding to line 3—3 of Fig. 1.

In the drawing, the similar reference
45 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 numerals
50 1 and 2 designate the bottom and top covers respectively. I provide a pair of binding members 3 and 4, the binding member 3 being the bottom member and secured to the front edge of the bottom cover 1 by the

hinge 5. The top cover 2 is secured to the
55 rear edge of the top binding member 4 by means of the hinge 6. The cover 1 is provided with a covering 7 of cloth, leather, or other suitable material, which is preferably made continuous over the bottom clamping
60 bar or member, and forms the hinge 5.

The body portion of the covers is preferably made up of binder's board. The cover
2 is preferably provided with a metal reinforcing sheet 8, which is extended to the rear
65 edge of the cover, the covering 9 also being extended to cover this reinforcing sheet and to cover the binding member 4, forming the connecting hinge 6 for the cover to the rear
70 edge of the binding member. By securing the cover 2 to the rear edge of the top binding member, it may be closed forwardly over the same, as clearly appears from Fig. 2, thus inclosing the securing mechanism for
75 the binder.

The sheets, as 10, are perforated to receive
75 the binding cords 11, which are preferably in one piece, looped through holes 13 provided therefor in the bottom binding member and passed through the holes 14 in the
80 top binding member. The bottom binding member is preferably provided with a longitudinal channel or groove 15 extending between the holes 13, and adapted to receive
85 the binding cord, so that it lies within the outer plane of the covers. The bottom binding member is preferably formed of binder's board, and is provided with a reinforcing
90 metal piece 16. The binding cords 11 are adjustably secured to the upper binding member by a pair of fastening devices, each
95 preferably consisting of the ways 17 having flange-like edges 18 and a central longitudinal groove 19 therein. The ways are provided with holes 20 to receive the binding
100 cords, the holes being arranged to register with the holes 14 in the binding member. The ways are preferably secured to the binding members by means of the rivets 21. On
105 these ways are slides 22 preferably having inturned edges 23 adapted to engage the projecting flange portions 18 of the ways, so that the slides are thereby held upon the
ways. These slides are adapted to slip over
the binding cords, as illustrated, and are
110 preferably inclined rearwardly and provided with a spring engaging portion 24, so that they securely hold cords of varying diame-

ters. They are also preferably provided with finger pieces 25, which may be grasped between the thumb and finger for moving the slides. I also preferably provide the ways with upwardly-projecting cord engaging pins 26 which assist in preventing the slipping of the cords, although ordinarily this is unnecessary.

By thus arranging the parts, I secure in a very simple manner a binder which may be effectively and quickly adjusted for the insertion or removal of the leaves or sheets, and effectively holds any number of sheets or leaves, from one to its capacity,—and the binder is of very large capacity. The structure is economical to produce, and, at the same time, it is neat and attractive in appearance.

I have illustrated and described my improved binder in detail in the form preferred by me, although I wish to state that it is capable of considerable variation in structural detail without departing from my invention, and I desire to be understood as claiming the same specifically, as illustrated, as well as broadly.

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

1. In a binder, the combination of a binding member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member; said slide way having a hole there-through for the binding cord, a longitudinal groove therein, and flange-like edges, a cord-engaging pin projecting upwardly in said groove, a cord-engaging slide having its edges turned inwardly to engage the edges of said way, and projecting finger pieces on said slide.

2. In a binder, the combination of a binding member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member, said slide way having a hole there-through for the binding cord, a longitudinal groove therein and flange-like edges, a cord-engaging pin projecting upwardly in said groove, and a cord-engaging slide having its edges turned inwardly to engage the edges of said way.

3. In a binder, the combination of a binding member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member, said slide way having a hole there-through for the binding cord and a longitudinal groove therein, a cord-engaging pin projecting upwardly in said groove, and a slide arranged on said way, said slide being inclined rearwardly and being provided with a spring cord-engaging portion at its rear end.

4. In a binder, the combination of a bind-

ing-member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member, said slide way having a hole there-through for the binding cord, and a slide arranged on said way, said slide being inclined rearwardly and being provided with a spring cord-engaging portion at its rear end.

5. In a binder, the combination of a binding member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member, said slide way having a hole there-through for the binding cord and a longitudinal groove therein, a cord-engaging pin projecting upwardly in said groove, and a slide arranged on said way, said slide being provided with a spring cord-engaging portion.

6. In a binder, the combination of a binding member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member, said slide way having a hole there-through for the binding cord, and a slide arranged on said way, said slide being provided with a spring cord-engaging portion.

7. In a binder, the combination of a binding member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member, said slide way having a hole there-through for the binding cords, a cord-engaging pin projecting upwardly on said way, and a slide arranged on said way to be slipped upon said cord to force the cord into engagement with said pin.

8. In a binder, the combination of a binding member; a binding cord; and a fastening device for said binding cord, comprising a slide way arranged on said binding member, a cord-engaging pin projecting upwardly on said way, and a slide arranged on said way to be slipped upon said cord to force the cord into engagement with said pin.

9. In a binder, the combination of a pair of binding members; a binding cord connecting said binding members; and fastening devices for said binding cords, each comprising a slide way secured on one of the binding members, said slide way having a hole therethrough for the binding cord; a longitudinal groove therein, a cord-engaging pin projecting upwardly in said groove, and a slide arranged on said way, said slide being inclined rearwardly and being provided with a spring cord-engaging portion at its rear end.

10. In a binder, the combination of a pair of binding members; a binding cord connecting said binding members; and fastening devices for said binding cords, each comprising a slide way secured on one of

the binding members, said slide way having a hole therethrough for the binding cord; and a slide arranged on said way, said slide being inclined rearwardly and being provided with a spring cord-engaging portion at its rear end.

11. In a binder, the combination of a pair of binding members; a binding cord connecting said binding members; and fastening devices for said binding cords, each comprising a slide way secured on one of the binding members, said slide way having a hole therethrough for the binding cord, a longitudinal groove therein, a cord-engaging pin projecting upwardly in said groove, and a slide arranged on said way and adapted to be slipped upon said cord to force the same into engagement with said pin.

12. In a binder, the combination of a pair of binding members; binding cords connecting said binding members; and fastening devices for said binding cords, each comprising a slide way secured on one of the binding members, and a cord-engaging slide arranged on said way, said slide being inclined rearwardly and being provided with a spring cord-engaging portion at its rear end.

13. In a binder, the combination with the covers, of a pair of binding members hinged thereto, the top cover being hinged at the rear edge of the top binding member and adapted to close forwardly over the same, and the bottom cover being hinged to the forward edge of the bottom binding member; binding cords arranged through the top binding member; and fastening devices for said binding cords, each comprising a slide way secured on the outer side of the top binding member, said slide way having a hole therethrough for the binding cord,

and a cord-engaging slide arranged on said way.

14. In a binder, the combination with the covers, of a pair of binding members hinged thereto, the top cover being hinged at the rear edge of the top binding member and adapted to close forwardly over the same, and the bottom cover being hinged to the forward edge of the bottom binding member; a binding cord, said binding members having holes therethrough for said binding cord, the bottom binding member having an external channel or groove extending between its holes adapted to receive said cord; and fastening devices for the ends of said binding cords, each comprising a slide way secured on the outer side of the top binding member, and a slide adapted to be shifted on said way into and out of engagement with said binding cord.

15. In a binder, the combination with the covers, of a pair of binding members hinged thereto, the top cover being hinged at the rear edge of the top binding member and adapted to close forwardly over the same, and the bottom cover being hinged to the forward edge of the bottom binding member; a binding cord, said binding members having holes therethrough for said binding cord, the bottom binding member having an external channel or groove extending between its holes adapted to receive said cord; and means for adjustably securing said binding cords arranged on the outer side of the top binding member.

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

GEORGE F. WIGGINTON. [L. s.]

Witnesses:

CLARA E. BRADEN.
JESSIE McILVAINE.